



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

**Order ID :** Q3017

**Project ID :** NWIRP Bethpage 112G08005-WE13

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

### Lab Sample Number

Q3017-01  
Q3017-02  
Q3017-03  
Q3017-04  
Q3017-05

### Client Sample Number

BP-TB-20250903  
TT-076-IDWGW-20250903  
TT-077-IDWGW-20250903  
TT-078-IDWGW-20250903  
TT-079-IDWGW-20250903

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: 9/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager# Ernie Wu**

**Order ID # Q3017**

**Test Name: VOC-TCLVOA-10**

### **A. Number of Samples and Date of Receipt:**

5 Water samples were received on 09/04/2025.

### **B. Parameters**

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

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 624.1.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike Duplicate met requirements for all compounds.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

### **E. Additional Comments:**

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

VIAL A and B combined to run sample # 02, 03, 04 and 05 as low volume received for samples.

"As per method, MS/MSD is required to be performed with the sample analysis.

However, Lab did not receive sufficient volume to perform the MS/MSD therefore



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MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 35% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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

Signature\_\_\_\_\_

## 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 flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                        |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                  |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092  
NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

ORDER ID: Q3017

MATRIX: Water

METHOD: 624.1

|     |                                                                                                                                                                                                         | NA | NO | YES |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1.  | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                           |    |    | ✓   |
| 2.  | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY<br>ASP CLP, CLP AND NJ)                                                                                 |    |    | ✓   |
| 3.  | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                       |    |    | ✓   |
| 4.  | GC/MS Calibration - Initial Calibration performed before sample analysis and<br>continuing calibration performed within 24 hours of sample analysis for 600 series and<br>12 hours for 8000 series.     |    |    | ✓   |
| 5.  | GC/MS Calibration Requirements.<br>The Initial Calibration met the requirements.<br>The Continuous Calibration met the requirements.                                                                    |    |    | ✓   |
| 6.  | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                          |    | ✓  |     |
| 7.  | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.<br><br>The Surrogate recoveries were met for all analysis. |    | ✓  |     |
| 8.  | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.                                   |    |    | ✓   |
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments:                                                                                                                              |    |    | ✓   |
| 10. | Analysis Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                              |    |    | ✓   |

ADDITIONAL COMMENTS:

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

**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

VIAL A and B combined to run sample # 02, 03, 04 and 05 as low volume received for samples.

“As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >35% for the Initial Calibration curve for SW-846 analysis.

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QA REVIEW

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Date

**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

Project #: Q3017

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 Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

**ANALYTICAL:**

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/08/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q3017                | <b>OrderDate:</b> | 9/4/2025 10:17:00 AM          |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | J12,VOA Lab                   |

| LabID    | ClientID                  | Matrix | Test          | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|---------------------------|--------|---------------|--------|-------------|-----------|-----------|----------|
| Q3017-01 | BP-TB-20250903            | Water  | VOC-TCLVOA-10 | 624.1  | 09/03/25    |           | 09/04/25  | 09/04/25 |
| Q3017-02 | TT-076-IDWGW-2025<br>0903 | Water  | VOC-TCLVOA-10 | 624.1  | 09/03/25    |           | 09/04/25  | 09/04/25 |
| Q3017-03 | TT-077-IDWGW-2025<br>0903 | Water  | VOC-TCLVOA-10 | 624.1  | 09/03/25    |           | 09/04/25  | 09/04/25 |
| Q3017-04 | TT-078-IDWGW-2025<br>0903 | Water  | VOC-TCLVOA-10 | 624.1  | 09/03/25    |           | 09/04/25  | 09/04/25 |
| Q3017-05 | TT-079-IDWGW-2025<br>0903 | Water  | VOC-TCLVOA-10 | 624.1  | 09/03/25    |           | 09/04/25  | 09/04/25 |



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Hit Summary Sheet  
SW-846

SDG No.: Q3017  
Client: Tetra Tech NUS, Inc.

| Sample ID  | Client ID             | Matrix | Parameter            | Concentration | C | MDL  | RDL  | Units |
|------------|-----------------------|--------|----------------------|---------------|---|------|------|-------|
| Client ID: | TT-076-IDWGW-20250903 |        |                      |               |   |      |      |       |
| Q3017-02   | TT-076-IDWGW-20250903 | Water  | Trichloroethene      | 6.70          |   | 0.49 | 5.00 | ug/L  |
|            |                       |        | Total Voc :          | 6.70          |   |      |      |       |
|            |                       |        | Total Concentration: | 6.70          |   |      |      |       |



# QC SUMMARY

## Surrogate Summary

SDG No.: Q3017

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

| Lab Sample ID | Client ID             | Parameter             | Spike | Result | Recovery (%) | Qual | Limits (%) |      |
|---------------|-----------------------|-----------------------|-------|--------|--------------|------|------------|------|
|               |                       |                       |       |        |              |      | Low        | High |
| Q3017-01      | BP-TB-20250903        | 1,2-Dichloroethane-d4 | 30    | 30.0   | 100          |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 30.4   | 101          |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 25.3   | 84           |      | 63         | 112  |
| Q3017-02      | TT-076-IDWGW-20250903 | 1,2-Dichloroethane-d4 | 30    | 29.8   | 99           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 29.5   | 98           |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 25.4   | 85           |      | 63         | 112  |
| Q3017-03      | TT-077-IDWGW-20250903 | 1,2-Dichloroethane-d4 | 30    | 29.4   | 98           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 29.4   | 98           |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 24.0   | 80           |      | 63         | 112  |
| Q3017-04      | TT-078-IDWGW-20250903 | 1,2-Dichloroethane-d4 | 30    | 29.2   | 97           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 29.4   | 98           |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 25.5   | 85           |      | 63         | 112  |
| Q3017-05      | TT-079-IDWGW-20250903 | 1,2-Dichloroethane-d4 | 30    | 29.4   | 98           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 30.7   | 102          |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 25.4   | 85           |      | 63         | 112  |
| VN0904WBL01   | VN0904WBL01           | 1,2-Dichloroethane-d4 | 30    | 30.5   | 102          |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 30.1   | 100          |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 25.9   | 86           |      | 63         | 112  |
| VN0904WBS01   | VN0904WBS01           | 1,2-Dichloroethane-d4 | 30    | 28.6   | 95           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 30.1   | 100          |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 27.6   | 92           |      | 63         | 112  |
| VN0904WBSD0   | VN0904WBSD01          | 1,2-Dichloroethane-d4 | 30    | 27.8   | 93           |      | 91         | 110  |
|               |                       | Toluene-d8            | 30    | 29.7   | 99           |      | 91         | 112  |
|               |                       | 4-Bromofluorobenzene  | 30    | 28.5   | 95           |      | 63         | 112  |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|          |                             |                    |                   |
|----------|-----------------------------|--------------------|-------------------|
| SDG No.: | <u>Q3017</u>                | Analytical Method: | <u>SW624.1</u>    |
| Client:  | <u>Tetra Tech NUS, Inc.</u> | Datafile :         | <u>VN087715.D</u> |

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|-------------|-----|
| VN0904WBS01   | Dichlorodifluoromethane        | 20    | 19.4   | ug/L | 97  |     |      | 72  | 118         |     |
|               | Chloromethane                  | 20    | 18.8   | ug/L | 94  |     |      | 1   | 205         |     |
|               | Vinyl Chloride                 | 20    | 20.2   | ug/L | 101 |     |      | 5   | 195         |     |
|               | Bromomethane                   | 20    | 26.2   | ug/L | 131 |     |      | 15  | 185         |     |
|               | Chloroethane                   | 20    | 20.8   | ug/L | 104 |     |      | 40  | 160         |     |
|               | Trichlorofluoromethane         | 20    | 22.0   | ug/L | 110 |     |      | 50  | 150         |     |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 23.3   | ug/L | 117 |     |      | 64  | 127         |     |
|               | 1,1-Dichloroethene             | 20    | 22.5   | ug/L | 113 |     |      | 50  | 150         |     |
|               | Acetone                        | 100   | 100    | ug/L | 100 |     |      | 41  | 148         |     |
|               | Carbon disulfide               | 20    | 18.1   | ug/L | 91  |     |      | 76  | 107         |     |
|               | Methyl tert-butyl Ether        | 20    | 17.1   | ug/L | 86  |     |      | 82  | 114         |     |
|               | Methyl Acetate                 | 20    | 21.8   | ug/L | 109 |     |      | 63  | 139         |     |
|               | Methylene Chloride             | 20    | 18.9   | ug/L | 95  |     |      | 60  | 140         |     |
|               | trans-1,2-Dichloroethene       | 20    | 18.1   | ug/L | 91  |     |      | 70  | 130         |     |
|               | 1,1-Dichloroethane             | 20    | 18.9   | ug/L | 95  |     |      | 70  | 130         |     |
|               | Cyclohexane                    | 20    | 17.4   | ug/L | 87  |     |      | 79  | 113         |     |
|               | 2-Butanone                     | 100   | 91.6   | ug/L | 92  |     |      | 69  | 129         |     |
|               | Carbon Tetrachloride           | 20    | 19.5   | ug/L | 98  |     |      | 70  | 130         |     |
|               | cis-1,2-Dichloroethene         | 20    | 18.3   | ug/L | 92  |     |      | 81  | 112         |     |
|               | Chloroform                     | 20    | 18.9   | ug/L | 95  |     |      | 70  | 135         |     |
|               | 1,1,1-Trichloroethane          | 20    | 19.9   | ug/L | 100 |     |      | 70  | 130         |     |
|               | Methylcyclohexane              | 20    | 17.6   | ug/L | 88  |     |      | 79  | 112         |     |
|               | Benzene                        | 20    | 19.1   | ug/L | 96  |     |      | 65  | 135         |     |
|               | 1,2-Dichloroethane             | 20    | 18.3   | ug/L | 92  |     |      | 70  | 130         |     |
|               | Trichloroethene                | 20    | 19.3   | ug/L | 97  |     |      | 65  | 135         |     |
|               | 1,2-Dichloropropane            | 20    | 19.5   | ug/L | 98  |     |      | 35  | 165         |     |
|               | Bromodichloromethane           | 20    | 18.9   | ug/L | 95  |     |      | 65  | 135         |     |
|               | 4-Methyl-2-Pentanone           | 100   | 91.2   | ug/L | 91  |     |      | 73  | 131         |     |
|               | Toluene                        | 20    | 19.0   | ug/L | 95  |     |      | 70  | 130         |     |
|               | t-1,3-Dichloropropene          | 20    | 17.7   | ug/L | 89  |     |      | 50  | 150         |     |
|               | cis-1,3-Dichloropropene        | 20    | 18.4   | ug/L | 92  |     |      | 25  | 175         |     |
|               | 1,1,2-Trichloroethane          | 20    | 19.7   | ug/L | 99  |     |      | 70  | 130         |     |
|               | 2-Hexanone                     | 100   | 83.6   | ug/L | 84  |     |      | 72  | 128         |     |
|               | Dibromochloromethane           | 20    | 18.8   | ug/L | 94  |     |      | 70  | 135         |     |
|               | 1,2-Dibromoethane              | 20    | 19.4   | ug/L | 97  |     |      | 86  | 114         |     |
|               | Tetrachloroethene              | 20    | 20.2   | ug/L | 101 |     |      | 70  | 130         |     |
|               | Chlorobenzene                  | 20    | 19.2   | ug/L | 96  |     |      | 65  | 135         |     |
|               | Ethyl Benzene                  | 20    | 18.4   | ug/L | 92  |     |      | 60  | 140         |     |
|               | m/p-Xylenes                    | 40    | 37.6   | ug/L | 94  |     |      | 87  | 111         |     |
|               | o-Xylene                       | 20    | 17.9   | ug/L | 90  |     |      | 87  | 111         |     |
|               | Styrene                        | 20    | 18.0   | ug/L | 90  |     |      | 85  | 106         |     |
|               | Bromoform                      | 20    | 18.0   | ug/L | 90  |     |      | 70  | 130         |     |
|               | Isopropylbenzene               | 20    | 18.5   | ug/L | 93  |     |      | 86  | 112         |     |
|               | 1,1,2,2-Tetrachloroethane      | 20    | 19.7   | ug/L | 99  |     |      | 60  | 140         |     |
|               | 1,3,5-Trimethylbenzene         | 20    | 18.3   | ug/L | 92  |     |      | 66  | 139         |     |
|               | 1,3-Dichlorobenzene            | 20    | 19.4   | ug/L | 97  |     |      | 70  | 130         |     |
|               | 1,4-Dichlorobenzene            | 20    | 19.7   | ug/L | 99  |     |      | 65  | 135         |     |
|               | 1,2-Dichlorobenzene            | 20    | 19.8   | ug/L | 99  |     |      | 65  | 135         |     |



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

**SW-846**

**SDG No.:** Q3017

**Analytical Method:** SW624.1

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

**Datafile :** VN087715.D

| Lab Sample ID | Parameter                   | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits | RPD |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|-----|--------|-----|
|               |                             |       |        |      |     |     |      |     | High   |     |
| VN0904WBS01   | 1,2-Dibromo-3-Chloropropane | 20    | 18.1   | ug/L | 91  |     |      | 69  | 122    |     |
|               | 1,2,4-Trichlorobenzene      | 20    | 18.5   | ug/L | 93  |     |      | 61  | 118    |     |
|               | 1,2,3-Trichlorobenzene      | 20    | 18.5   | ug/L | 93  |     |      | 38  | 159    |     |

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

**SW-846**

|                 |                             |                           |                   |
|-----------------|-----------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <b>Q3017</b>                | <b>Analytical Method:</b> | <b>SW624.1</b>    |
| <b>Client:</b>  | <b>Tetra Tech NUS, Inc.</b> | <b>Datafile :</b>         | <b>VN087716.D</b> |

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VN0904WBSD01  | Dichlorodifluoromethane        | 20    | 20.4   | ug/L | 102 | 5   |      | 72  | 118            | 20  |
|               | Chloromethane                  | 20    | 19.1   | ug/L | 96  | 2   |      | 1   | 205            | 20  |
|               | Vinyl Chloride                 | 20    | 20.8   | ug/L | 104 | 3   |      | 5   | 195            | 20  |
|               | Bromomethane                   | 20    | 26.7   | ug/L | 134 | 2   |      | 15  | 185            | 20  |
|               | Chloroethane                   | 20    | 21.7   | ug/L | 109 | 5   |      | 40  | 160            | 20  |
|               | Trichlorofluoromethane         | 20    | 22.5   | ug/L | 113 | 3   |      | 50  | 150            | 20  |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 25.1   | ug/L | 126 | 7   |      | 64  | 127            | 20  |
|               | 1,1-Dichloroethene             | 20    | 22.0   | ug/L | 110 | 3   |      | 50  | 150            | 20  |
|               | Acetone                        | 100   | 96.3   | ug/L | 96  | 4   |      | 41  | 148            | 20  |
|               | Carbon disulfide               | 20    | 18.3   | ug/L | 92  | 1   |      | 76  | 107            | 20  |
|               | Methyl tert-butyl Ether        | 20    | 17.9   | ug/L | 90  | 5   |      | 82  | 114            | 20  |
|               | Methyl Acetate                 | 20    | 23.1   | ug/L | 116 | 6   |      | 63  | 139            | 20  |
|               | Methylene Chloride             | 20    | 19.7   | ug/L | 99  | 4   |      | 60  | 140            | 20  |
|               | trans-1,2-Dichloroethene       | 20    | 19.0   | ug/L | 95  | 4   |      | 70  | 130            | 20  |
|               | 1,1-Dichloroethane             | 20    | 18.7   | ug/L | 94  | 1   |      | 70  | 130            | 20  |
|               | Cyclohexane                    | 20    | 18.2   | ug/L | 91  | 4   |      | 79  | 113            | 20  |
|               | 2-Butanone                     | 100   | 98.4   | ug/L | 98  | 6   |      | 69  | 129            | 20  |
|               | Carbon Tetrachloride           | 20    | 20.9   | ug/L | 104 | 6   |      | 70  | 130            | 20  |
|               | cis-1,2-Dichloroethene         | 20    | 18.8   | ug/L | 94  | 2   |      | 81  | 112            | 20  |
|               | Chloroform                     | 20    | 19.6   | ug/L | 98  | 3   |      | 70  | 135            | 20  |
|               | 1,1,1-Trichloroethane          | 20    | 21.0   | ug/L | 105 | 5   |      | 70  | 130            | 20  |
|               | Methylcyclohexane              | 20    | 19.1   | ug/L | 96  | 9   |      | 79  | 112            | 20  |
|               | Benzene                        | 20    | 20.1   | ug/L | 101 | 5   |      | 65  | 135            | 20  |
|               | 1,2-Dichloroethane             | 20    | 19.2   | ug/L | 96  | 4   |      | 70  | 130            | 20  |
|               | Trichloroethene                | 20    | 20.9   | ug/L | 104 | 7   |      | 65  | 135            | 20  |
|               | 1,2-Dichloropropane            | 20    | 21.1   | ug/L | 106 | 8   |      | 35  | 165            | 20  |
|               | Bromodichloromethane           | 20    | 20.1   | ug/L | 101 | 6   |      | 65  | 135            | 20  |
|               | 4-Methyl-2-Pentanone           | 100   | 100    | ug/L | 100 | 9   |      | 73  | 131            | 20  |
|               | Toluene                        | 20    | 20.5   | ug/L | 103 | 8   |      | 70  | 130            | 20  |
|               | t-1,3-Dichloropropene          | 20    | 19.3   | ug/L | 97  | 9   |      | 50  | 150            | 20  |
|               | cis-1,3-Dichloropropene        | 20    | 19.5   | ug/L | 98  | 6   |      | 25  | 175            | 20  |
|               | 1,1,2-Trichloroethane          | 20    | 22.1   | ug/L | 111 | 11  |      | 70  | 130            | 20  |
|               | 2-Hexanone                     | 100   | 92.7   | ug/L | 93  | 10  |      | 72  | 128            | 20  |
|               | Dibromochloromethane           | 20    | 21.1   | ug/L | 106 | 12  |      | 70  | 135            | 20  |
|               | 1,2-Dibromoethane              | 20    | 20.2   | ug/L | 101 | 4   |      | 86  | 114            | 20  |
|               | Tetrachloroethene              | 20    | 21.9   | ug/L | 110 | 9   |      | 70  | 130            | 20  |
|               | Chlorobenzene                  | 20    | 20.4   | ug/L | 102 | 6   |      | 65  | 135            | 20  |
|               | Ethyl Benzene                  | 20    | 19.8   | ug/L | 99  | 7   |      | 60  | 140            | 20  |
|               | m/p-Xylenes                    | 40    | 39.4   | ug/L | 99  | 5   |      | 87  | 111            | 20  |
|               | o-Xylene                       | 20    | 19.3   | ug/L | 97  | 7   |      | 87  | 111            | 20  |
|               | Styrene                        | 20    | 19.3   | ug/L | 97  | 7   |      | 85  | 106            | 20  |
|               | Bromoform                      | 20    | 20.0   | ug/L | 100 | 11  |      | 70  | 130            | 20  |
|               | Isopropylbenzene               | 20    | 20.3   | ug/L | 102 | 9   |      | 86  | 112            | 20  |
|               | 1,1,2,2-Tetrachloroethane      | 20    | 21.2   | ug/L | 106 | 7   |      | 60  | 140            | 20  |
|               | 1,3,5-Trimethylbenzene         | 20    | 20.1   | ug/L | 101 | 9   |      | 66  | 139            | 20  |
|               | 1,3-Dichlorobenzene            | 20    | 21.7   | ug/L | 109 | 12  |      | 70  | 130            | 20  |
|               | 1,4-Dichlorobenzene            | 20    | 20.7   | ug/L | 104 | 5   |      | 65  | 135            | 20  |
|               | 1,2-Dichlorobenzene            | 20    | 21.6   | ug/L | 108 | 9   |      | 65  | 135            | 20  |

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

**SW-846**

|                 |                             |                           |                   |
|-----------------|-----------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q3017</u>                | <b>Analytical Method:</b> | <u>SW624.1</u>    |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>Datafile :</b>         | <u>VN087716.D</u> |

| Lab Sample ID | Parameter                   | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VN0904WBSD01  | 1,2-Dibromo-3-Chloropropane | 20    | 19.2   | ug/L | 96  | 5   |      | 69  | 122            | 20  |
|               | 1,2,4-Trichlorobenzene      | 20    | 20.8   | ug/L | 104 | 11  |      | 61  | 118            | 20  |
|               | 1,2,3-Trichlorobenzene      | 20    | 20.8   | ug/L | 104 | 11  |      | 38  | 159            | 20  |

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0904WBL01

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3017

Lab File ID: VN087717.D

Lab Sample ID: VN0904WBL01

Date Analyzed: 09/04/2025

Time Analyzed: 12:59

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<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|
| VN0904WBS01           | VN0904WBS01      | VN087715.D     | 09/04/2025       |
| VN0904WBSD01          | VN0904WBSD01     | VN087716.D     | 09/04/2025       |
| BP-TB-20250903        | Q3017-01         | VN087718.D     | 09/04/2025       |
| TT-076-IDWGW-20250903 | Q3017-02         | VN087719.D     | 09/04/2025       |
| TT-078-IDWGW-20250903 | Q3017-04         | VN087720.D     | 09/04/2025       |
| TT-079-IDWGW-20250903 | Q3017-05         | VN087721.D     | 09/04/2025       |
| TT-077-IDWGW-20250903 | Q3017-03         | VN087722.D     | 09/04/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3017

Lab File ID: VN087447.D

BFB Injection Date: 08/05/2025

Instrument ID: MSVOA\_N

BFB Injection Time: 09:27

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            | 24.6                 |
| 75  | 30.0 - 60.0% of mass 95            | 58.7                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 1 ( 1.5 ) 1          |
| 174 | 50.0 - 100.0% of mass 95           | 66.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 4.8 ( 7.2 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 65.2 ( 97.7 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.8 ( 7.3 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-----------|---------------|-------------|---------------|---------------|
| VSTDIC005 | VSTDIC005     | VN087452.D  | 08/05/2025    | 13:37         |
| VSTDIC020 | VSTDIC020     | VN087453.D  | 08/05/2025    | 13:58         |
| VSTDIC050 | VSTDIC050     | VN087454.D  | 08/05/2025    | 14:19         |
| VSTDIC100 | VSTDIC100     | VN087455.D  | 08/05/2025    | 14:40         |
| VSTDIC150 | VSTDIC150     | VN087456.D  | 08/05/2025    | 15:01         |



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3017

Lab File ID: VN087713.D

BFB Injection Date: 09/04/2025

Instrument ID: MSVOA\_N

BFB Injection Time: 10:10

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            | 23.1                 |
| 75  | 30.0 - 60.0% of mass 95            | 57.3                 |
| 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 ( 1.3 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 67                   |
| 175 | 5.0 - 9.0% of mass 174             | 5.4 ( 8.1 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 65.8 ( 98.3 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.7 ( 7.1 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID             | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-----------------------|---------------|-------------|---------------|---------------|
| VSTDCCC020            | VSTDCCC020    | VN087714.D  | 09/04/2025    | 10:54         |
| VN0904WBS01           | VN0904WBS01   | VN087715.D  | 09/04/2025    | 12:04         |
| VN0904WBSD01          | VN0904WBSD01  | VN087716.D  | 09/04/2025    | 12:38         |
| VN0904WBL01           | VN0904WBL01   | VN087717.D  | 09/04/2025    | 12:59         |
| BP-TB-20250903        | Q3017-01      | VN087718.D  | 09/04/2025    | 13:35         |
| TT-076-IDWGW-20250903 | Q3017-02      | VN087719.D  | 09/04/2025    | 13:56         |
| TT-078-IDWGW-20250903 | Q3017-04      | VN087720.D  | 09/04/2025    | 14:16         |
| TT-079-IDWGW-20250903 | Q3017-05      | VN087721.D  | 09/04/2025    | 14:37         |
| TT-077-IDWGW-20250903 | Q3017-03      | VN087722.D  | 09/04/2025    | 14:58         |
| VSTDCCC020EC          | VSTDCCC020    | VN087723.D  | 09/04/2025    | 15:21         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG NO.: Q3017  
 Lab File ID: VN087714.D Date Analyzed: 09/04/2025  
 Instrument ID: MSVOA\_N Time Analyzed: 10:54  
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

|                       | IS1<br>AREA # | RT # | IS2<br>AREA # | RT #  | IS3<br>AREA # | RT #   |
|-----------------------|---------------|------|---------------|-------|---------------|--------|
| 12 HOUR STD           | 48350         | 7.80 | 251837        | 9.08  | 230082        | 11.85  |
| UPPER LIMIT           | 96700         | 8.3  | 503674        | 9.583 | 460164        | 12.347 |
| LOWER LIMIT           | 24175         | 7.3  | 125919        | 8.583 | 115041        | 11.347 |
| EPA SAMPLE NO.        |               |      |               |       |               |        |
| BP-TB-20250903        | 24981         | 7.80 | 130931        | 9.08  | 117412        | 11.85  |
| TT-076-IDWGW-20250903 | 31627         | 7.79 | 160432        | 9.08  | 142263        | 11.85  |
| TT-077-IDWGW-20250903 | 41995         | 7.79 | 225576        | 9.08  | 201361        | 11.85  |
| TT-078-IDWGW-20250903 | 36172         | 7.80 | 190299        | 9.08  | 168068        | 11.85  |
| TT-079-IDWGW-20250903 | 39130         | 7.79 | 202717        | 9.08  | 174966        | 11.84  |
| VN0904WBL01           | 37882         | 7.79 | 207176        | 9.08  | 183441        | 11.85  |
| VN0904WBS01           | 43425         | 7.79 | 231247        | 9.08  | 210355        | 11.85  |
| VN0904WBSD01          | 46987         | 7.79 | 246294        | 9.08  | 222512        | 11.85  |

IS1 = Bromochloromethane  
 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.



# SAMPLE DATA



## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: | 09/03/25                     |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  | 09/04/25                     |
| Client Sample ID:  | BP-TB-20250903                            | SDG No.:        | Q3017                        |
| Lab Sample ID:     | Q3017-01                                  | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087718.D        | 1         | 09/04/25 13:35 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 0.49  | U         | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | BP-TB-20250903                |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-01                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087718.D        | 1         | 09/04/25 13:35 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 30.0   |           | 91 - 110 | 100%       | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 30.4   |           | 91 - 112 | 101%       | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 25.3   |           | 63 - 112 | 84%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 25000  | 7.8       |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 131000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 117000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: | 09/03/25                     |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  | 09/04/25                     |
| Client Sample ID:  | BP-TB-20250903                            | SDG No.:        | Q3017                        |
| Lab Sample ID:     | Q3017-01                                  | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087718.D        | 1         | 09/04/25 13:35 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.800  | 128  | 24981    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.082  | 114  | 130931   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 117412   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 69122    | 29.999   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 100.000% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 51174    | 25.326   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 84.433%  |
| 63) Toluene-d8              | 10.547 | 98    | 164231   | 30.400   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 101.333% |

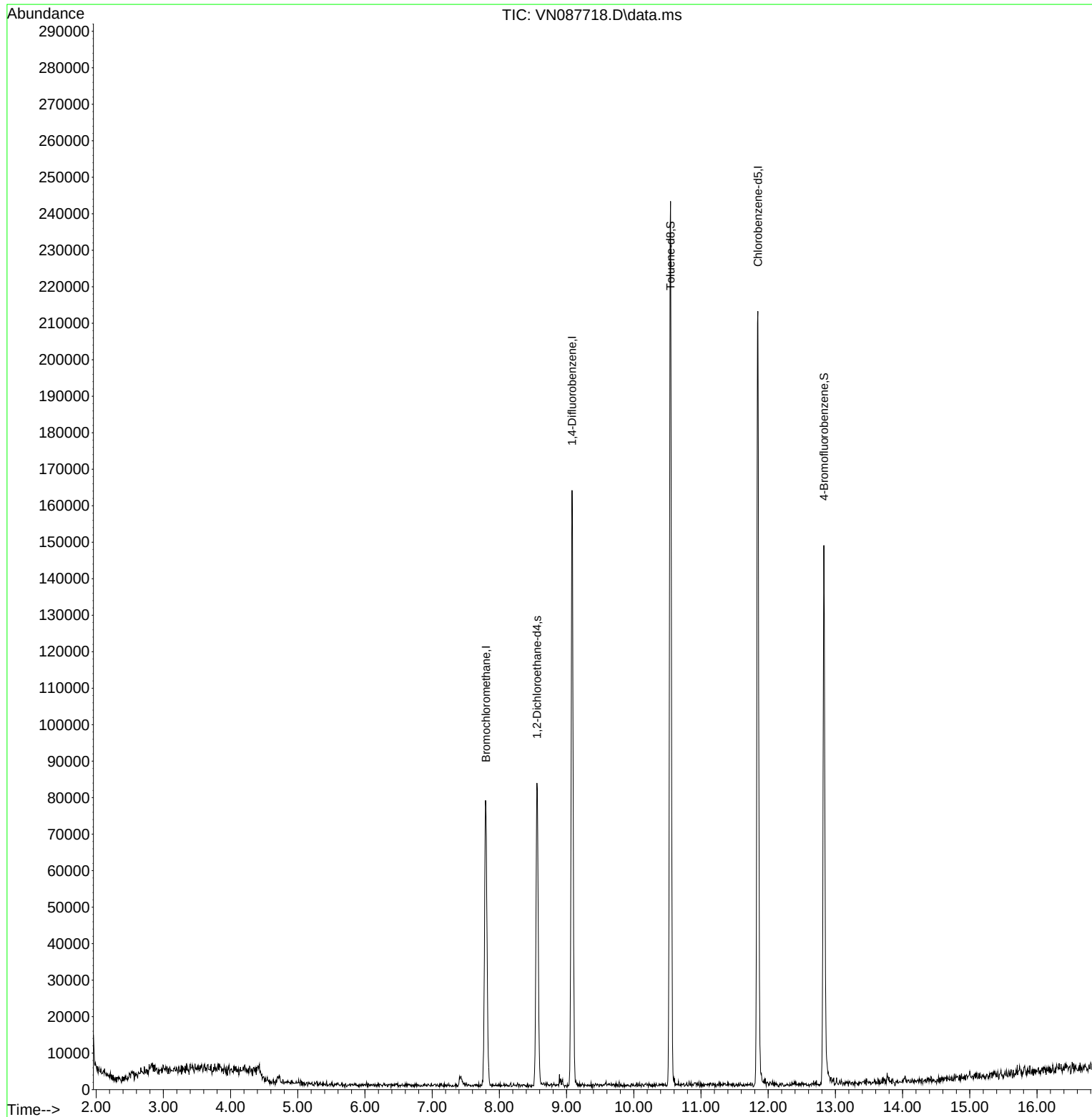
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

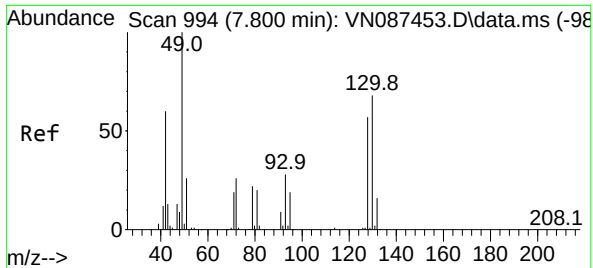
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

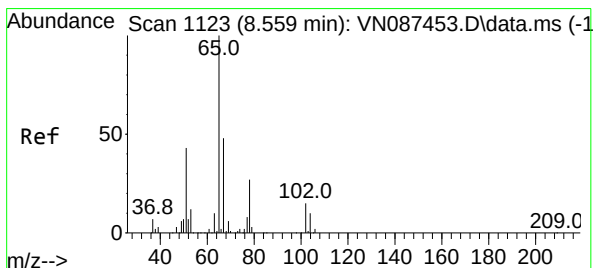
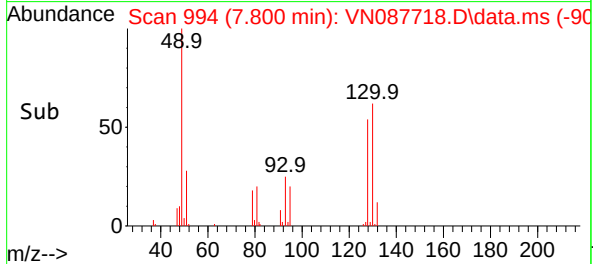
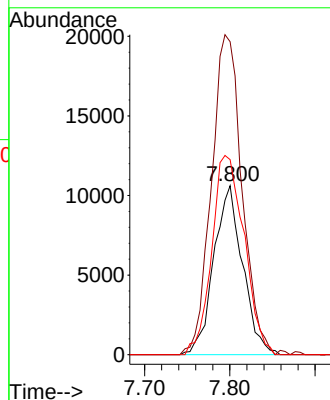
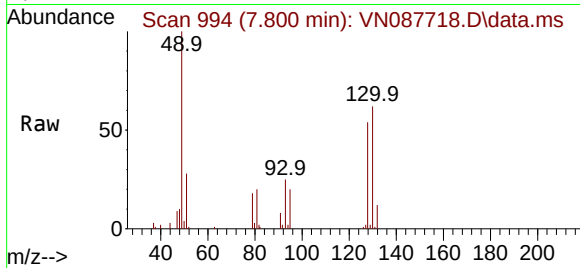




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

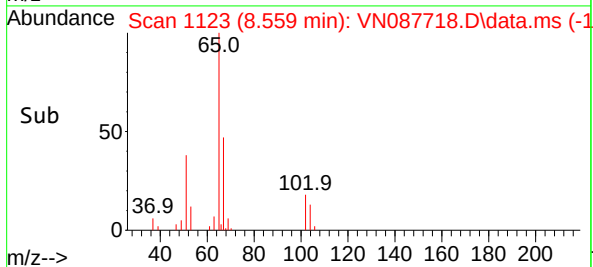
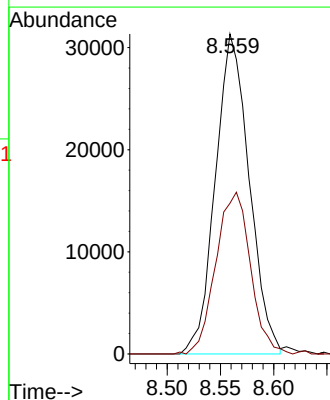
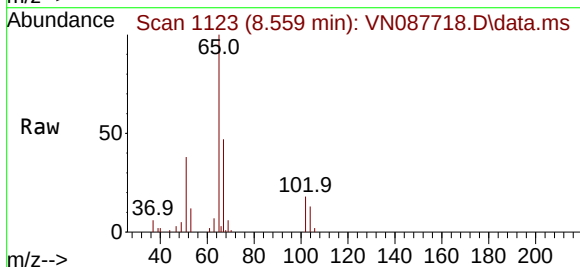
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

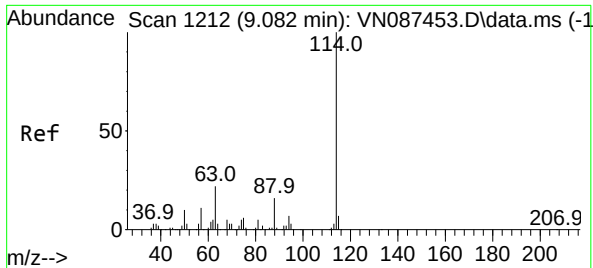
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 200.7 | 0.0   | 494.8 |
| 130     | 132.5 | 0.0   | 321.5 |



#27  
1,2-Dichloroethane-d4  
Concen: 29.999 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.6  | 40.8  | 61.2  |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

Instrument :

MSVOA\_N

ClientSampleId :

BP-TB-20250903

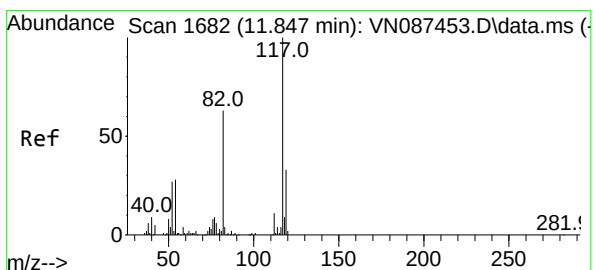
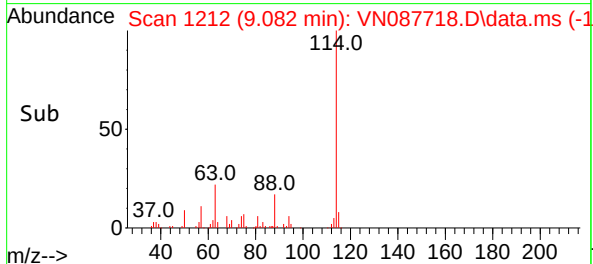
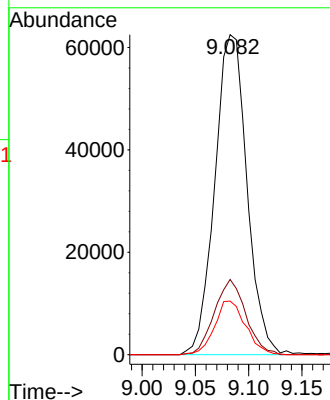
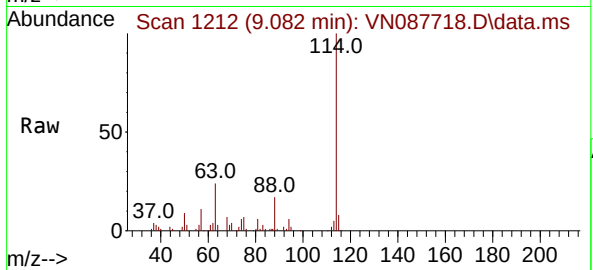
Tgt Ion:114 Resp: 130931

Ion Ratio Lower Upper

114 100

63 23.0 18.9 28.3

88 16.2 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

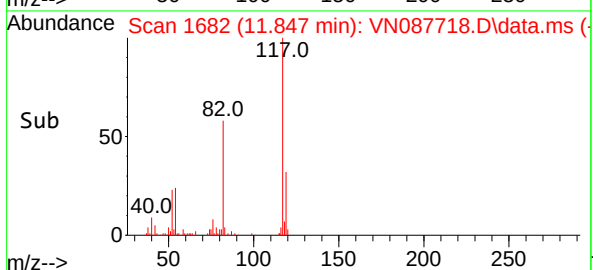
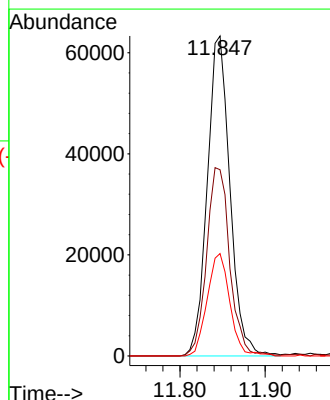
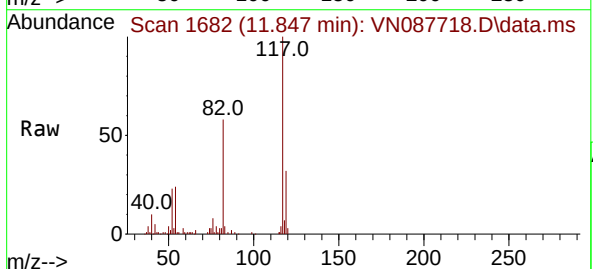
Tgt Ion:117 Resp: 117412

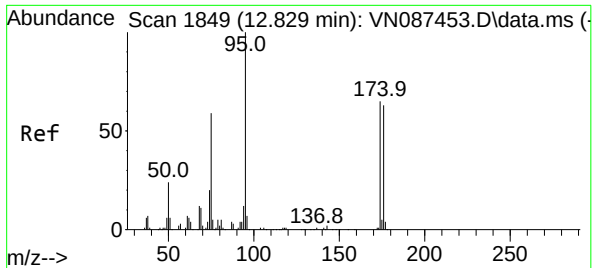
Ion Ratio Lower Upper

117 100

82 59.5 49.2 73.8

119 31.5 25.7 38.5

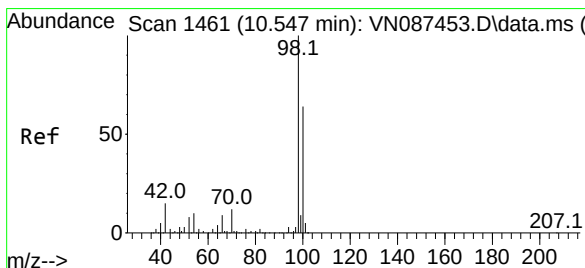
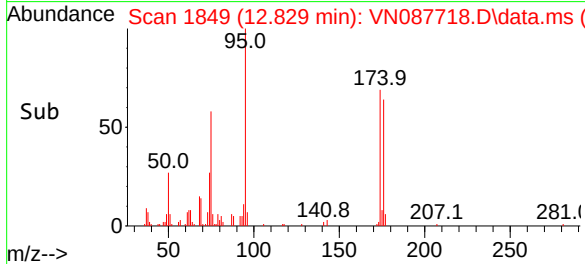
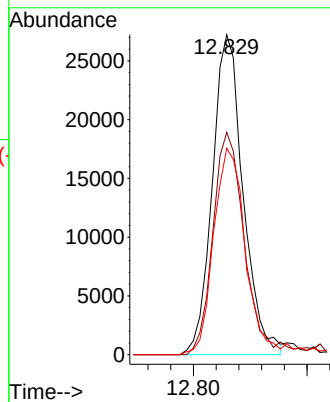
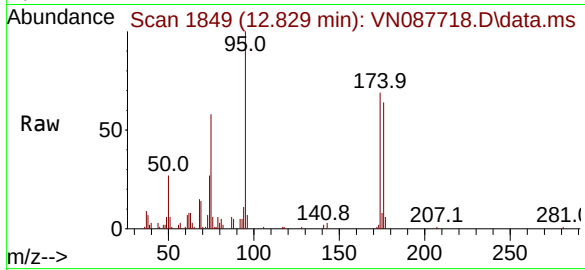




#60  
4-Bromofluorobenzene  
Concen: 25.326 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

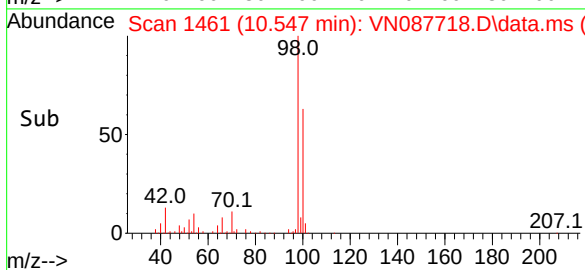
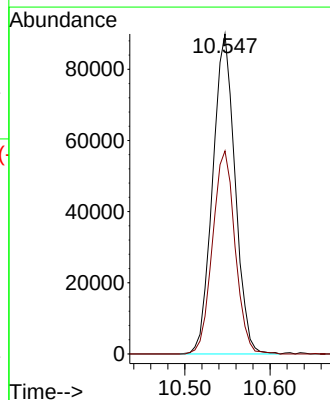
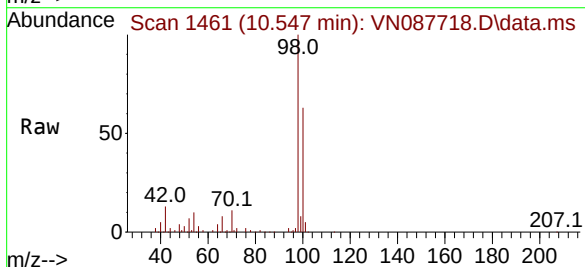
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 51174 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 69.4  | 52.3  | 78.5  |
| 176      | 66.0  | 49.8  | 74.8  |



#63  
Toluene-d8  
Concen: 30.400 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087718.D  
Acq: 04 Sep 2025 13:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 164231 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 64.0  | 50.5  | 75.7   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Integration Parameters: RTEINT3.P  
Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 0 % 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\624N080525W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087718.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 7.794       | 983           | 993         | 1005         | rVB3     | 78180          | 201444        | 43.86%          | 10.780%       |
| 2         | 8.559       | 1115          | 1123        | 1134         | rBV3     | 83004          | 194196        | 42.28%          | 10.392%       |
| 3         | 9.082       | 1203          | 1212        | 1221         | rBV      | 163112         | 336375        | 73.24%          | 18.000%       |
| 4         | 10.547      | 1451          | 1461        | 1470         | rBV2     | 242547         | 459281        | 100.00%         | 24.577%       |
| 5         | 11.847      | 1674          | 1682        | 1690         | rBV      | 211695         | 396501        | 86.33%          | 21.218%       |
| 6         | 12.829      | 1838          | 1849        | 1865         | rBV2     | 148107         | 280926        | 61.17%          | 15.033%       |

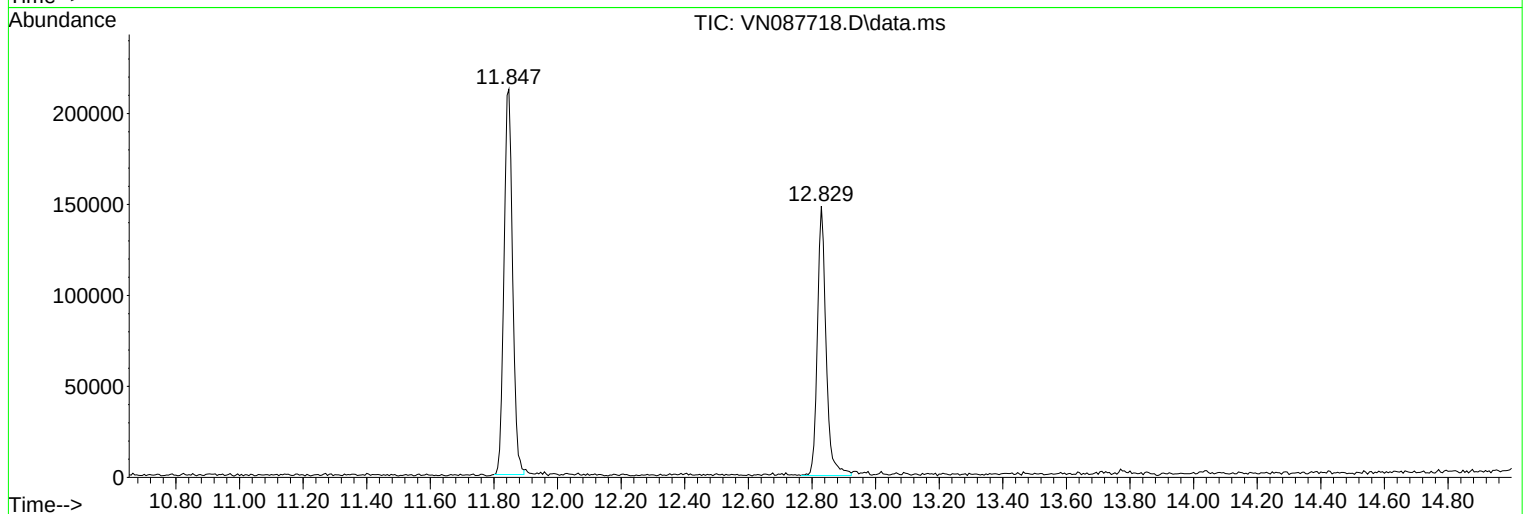
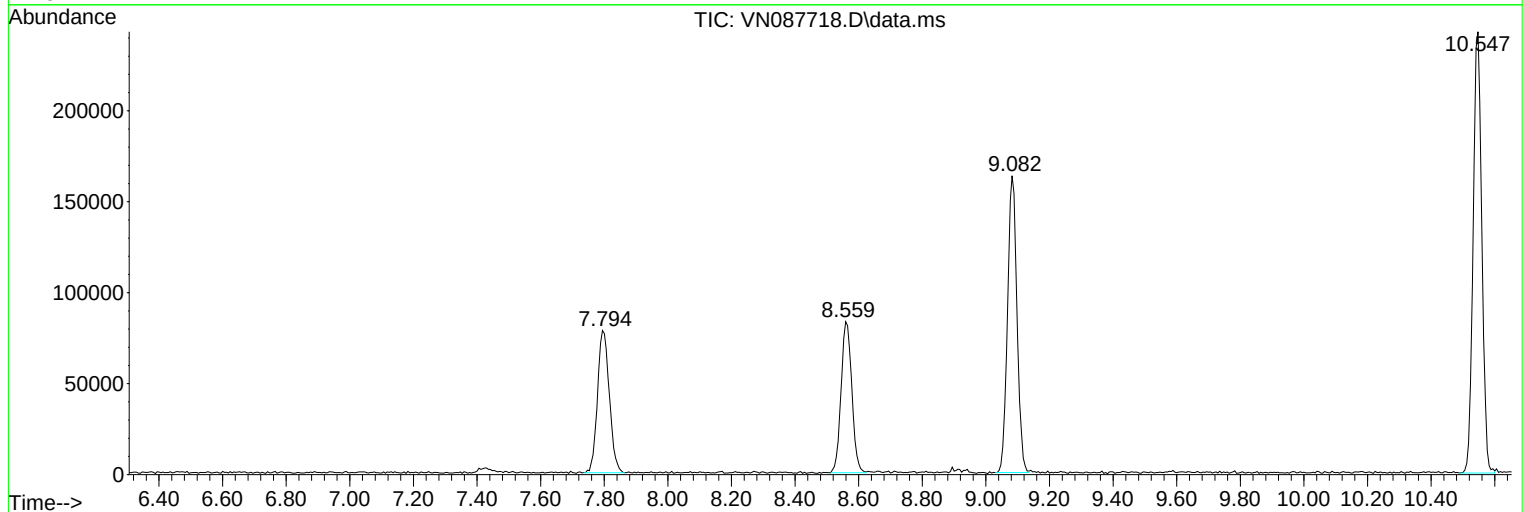
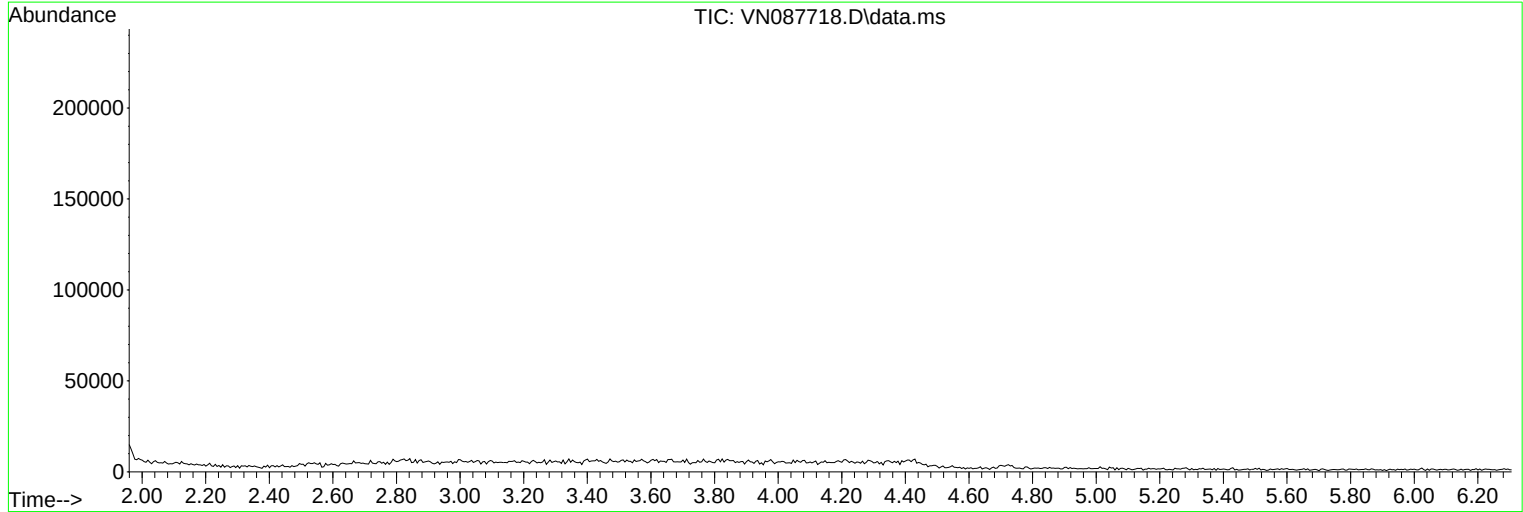
Sum of corrected areas: 1868723

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087718.D  
Acq On : 04 Sep 2025 13:35  
Operator : JC\MD  
Sample : Q3017-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

-----

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-076-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-02                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087719.D        | 1         | 09/04/25 13:56 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 6.70  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-076-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-02                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087719.D        | 1         | 09/04/25 13:56 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 29.8   |           | 91 - 110 | 99%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 29.5   |           | 91 - 112 | 98%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 25.4   |           | 63 - 112 | 85%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 31600  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 160000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 142000 | 11.847    |          |            |         |

### Report of Analysis

|                    |                               |           |                 |               |
|--------------------|-------------------------------|-----------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |
| Client Sample ID:  | TT-076-IDWGW-20250903         |           | SDG No.:        | Q3017         |
| Lab Sample ID:     | Q3017-02                      |           | Matrix:         | Water         |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087719.D        | 1         | 09/04/25 13:56 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087719.D  
 Acq On : 04 Sep 2025 13:56  
 Operator : JC\MD  
 Sample : Q3017-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT-076-IDWGW-20250903

Quant Time: Sep 05 02:20:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-----------------------------|--------|-------|----------|----------|-------|-----------|
| -----                       |        |       |          |          |       |           |
| Internal Standards          |        |       |          |          |       |           |
| 1) Bromochloromethane       | 7.794  | 128   | 31627    | 30.000   | ug/l  | 0.00      |
| 28) 1,4-Difluorobenzene     | 9.082  | 114   | 160432   | 30.000   | ug/l  | 0.00      |
| 57) Chlorobenzene-d5        | 11.847 | 117   | 142263   | 30.000   | ug/l  | 0.00      |
| System Monitoring Compounds |        |       |          |          |       |           |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 86846    | 29.771   | ug/l  | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =     | 99.233%   |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 62220    | 25.414   | ug/l  | 0.00      |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =     | 84.700%   |
| 63) Toluene-d8              | 10.547 | 98    | 193077   | 29.496   | ug/l  | 0.00      |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =     | 98.333%   |
| Target Compounds            |        |       |          |          |       |           |
| 37) Trichloroethene         | 9.335  | 130   | 12183    | 6.696    | ug/l  | Qvalue 99 |
| -----                       |        |       |          |          |       |           |

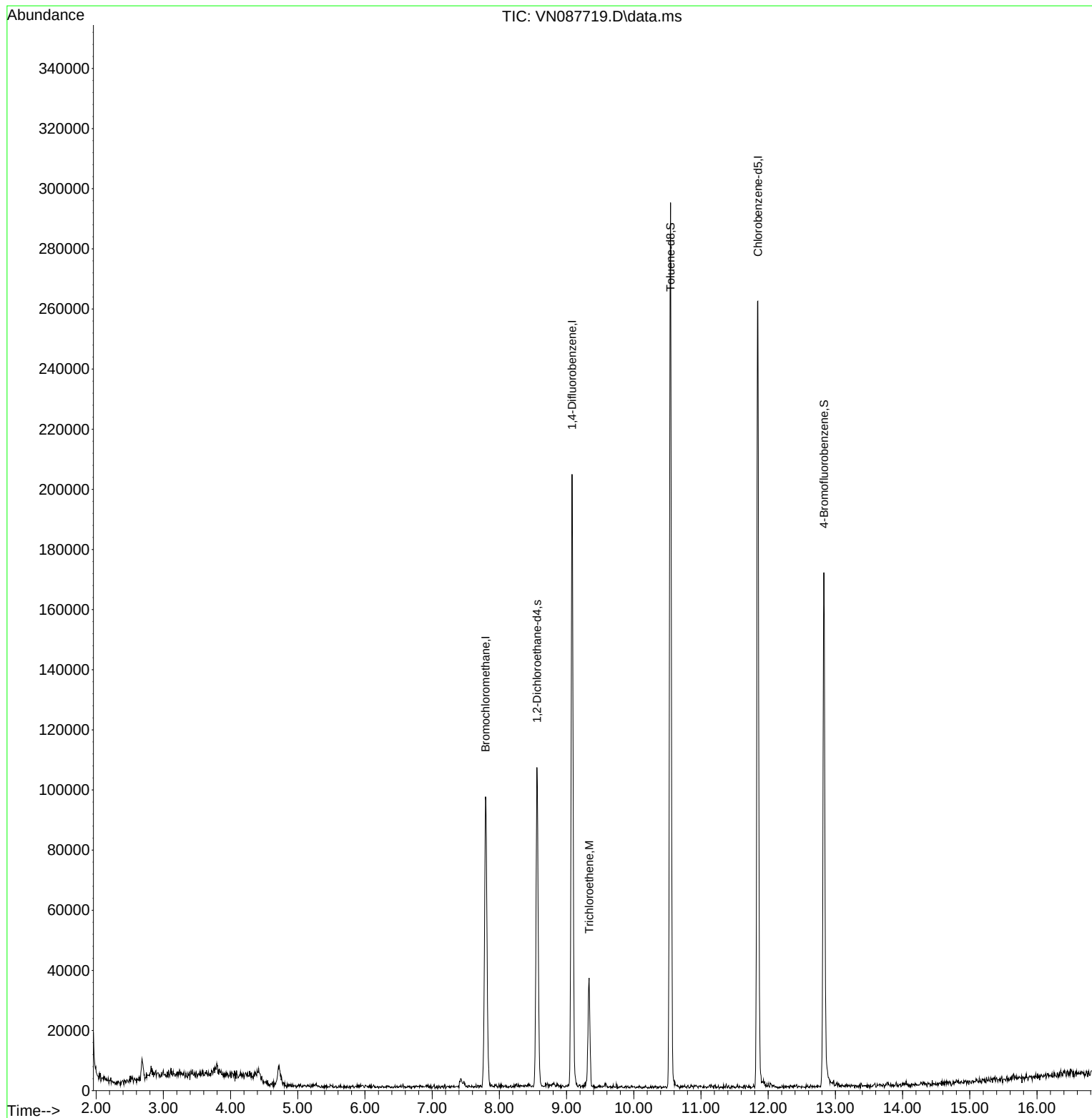
(#) = qualifier out of range (m) = manual integration (+) = signals summed

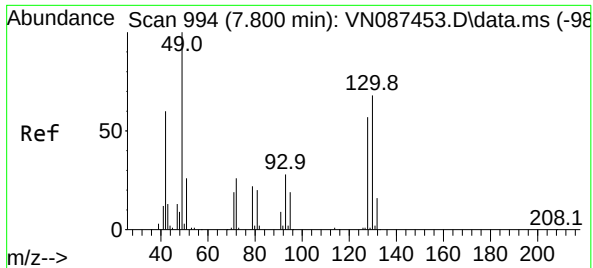


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087719.D  
Acq On : 04 Sep 2025 13:56  
Operator : JC\MD  
Sample : Q3017-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

Quant Time: Sep 05 02:20:41 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

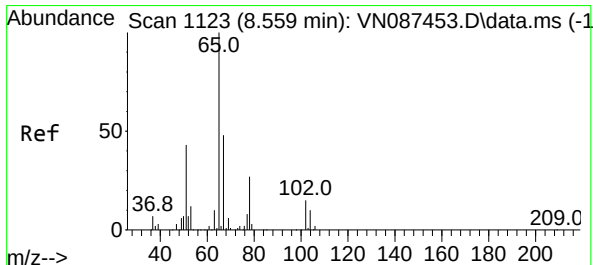
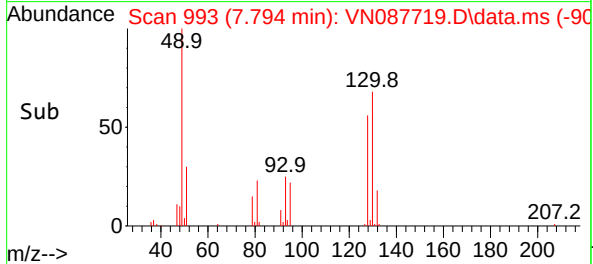
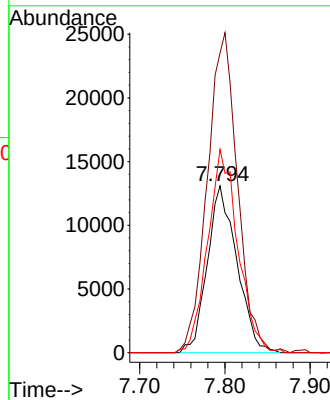
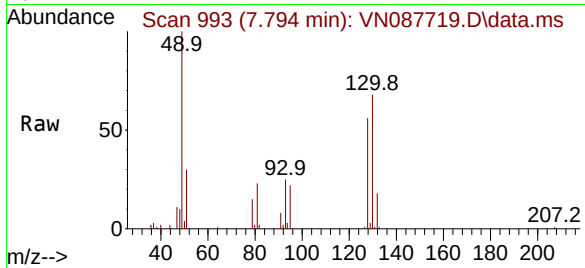




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087719.D  
Acq: 04 Sep 2025 13:56

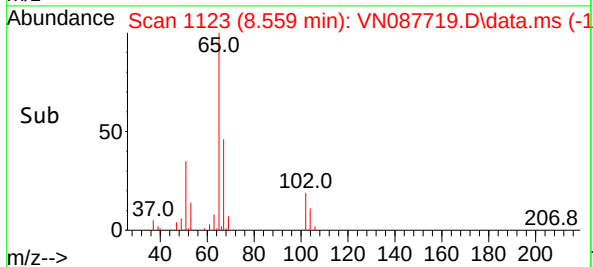
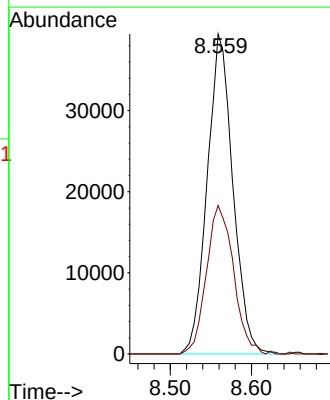
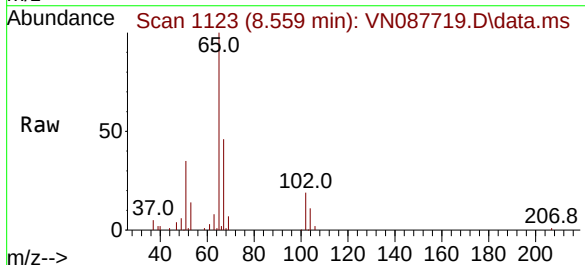
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

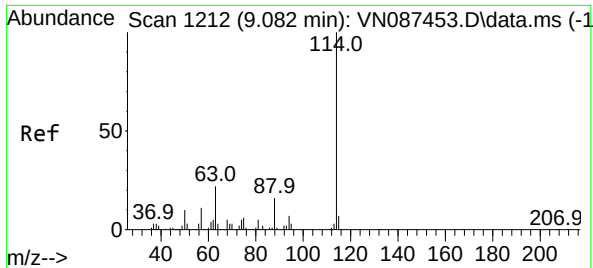
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 194.8 | 0.0   | 494.8 |
| 130     | 124.4 | 0.0   | 321.5 |



#27  
1,2-Dichloroethane-d4  
Concen: 29.771 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087719.D  
Acq: 04 Sep 2025 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 48.9  | 40.8  | 61.2  |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087719.D

Acq: 04 Sep 2025 13:56

Instrument :

MSVOA\_N

ClientSampleId :

TT-076-IDWGW-20250903

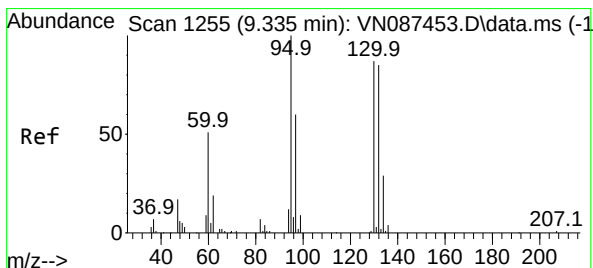
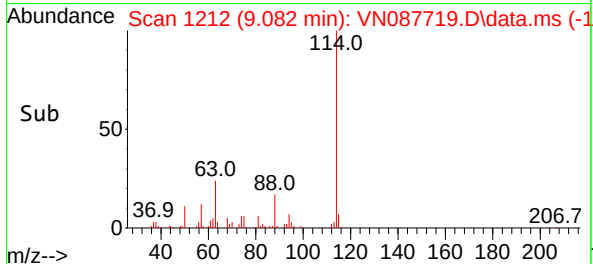
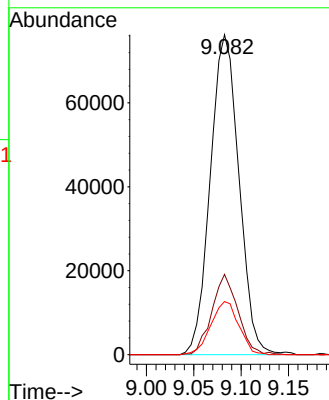
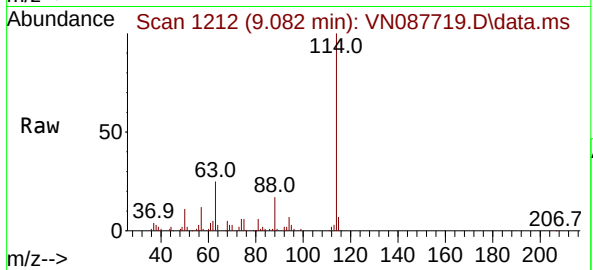
Tgt Ion:114 Resp: 160432

Ion Ratio Lower Upper

114 100

63 22.7 18.9 28.3

88 16.2 13.1 19.7



#37

Trichloroethene

Concen: 6.696 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087719.D

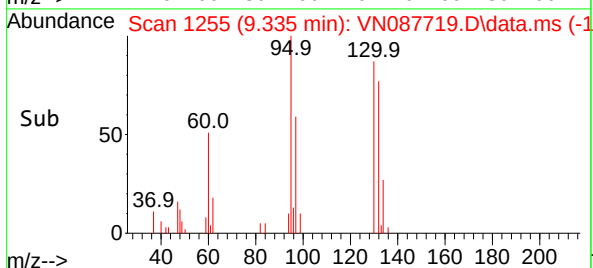
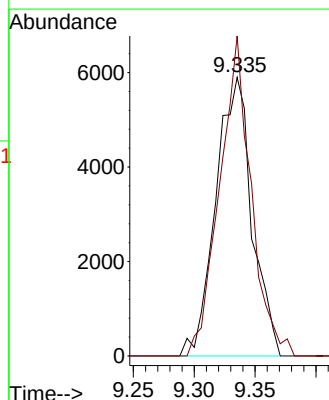
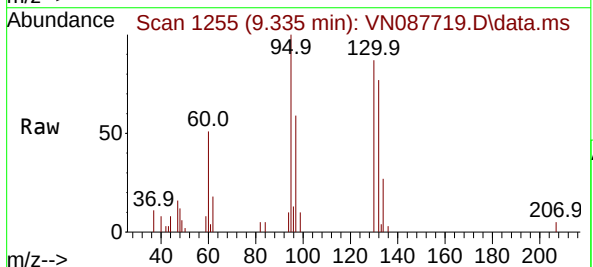
Acq: 04 Sep 2025 13:56

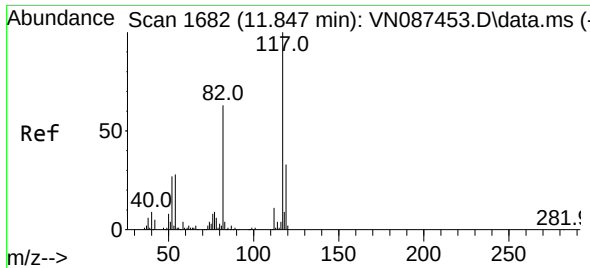
Tgt Ion:130 Resp: 12183

Ion Ratio Lower Upper

130 100

95 114.9 91.4 137.2

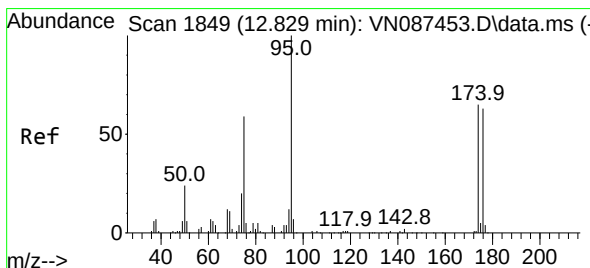
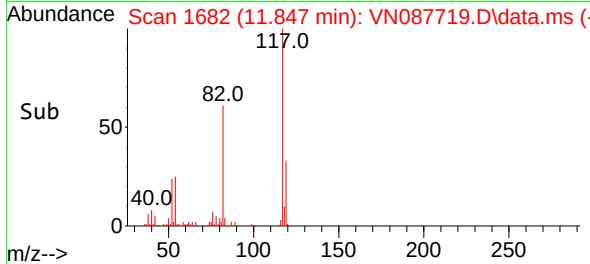
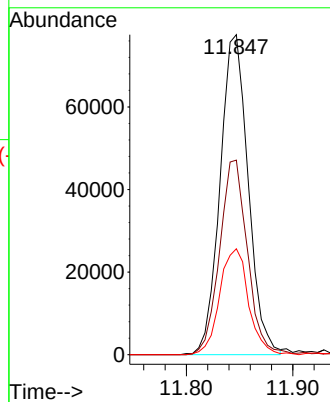
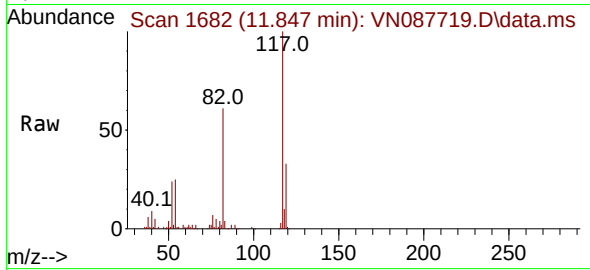




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN087719.D  
Acq: 04 Sep 2025 13:56

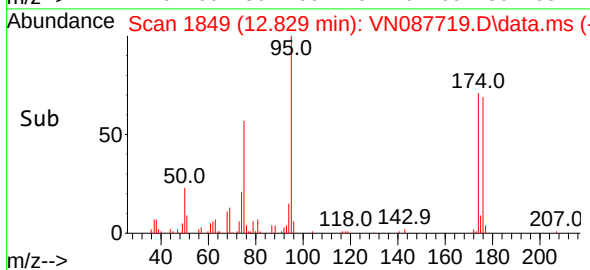
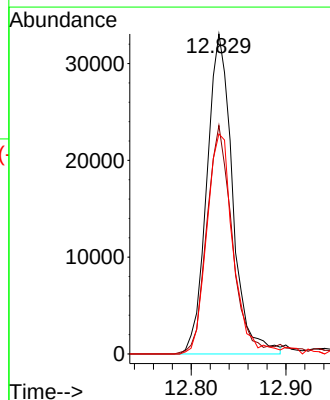
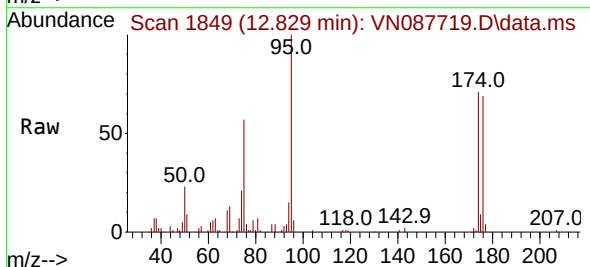
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

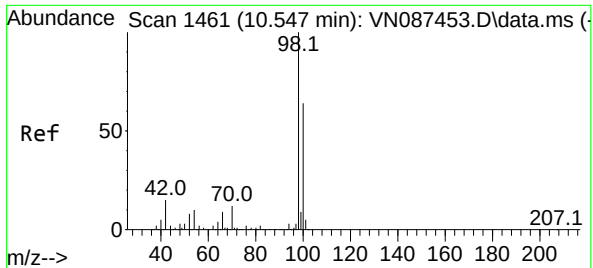
Tgt Ion:117 Resp: 142263  
Ion Ratio Lower Upper  
117 100  
82 60.1 49.2 73.8  
119 33.8 25.7 38.5



#60  
4-Bromofluorobenzene  
Concen: 25.414 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087719.D  
Acq: 04 Sep 2025 13:56

Tgt Ion: 95 Resp: 62220  
Ion Ratio Lower Upper  
95 100  
174 69.9 52.3 78.5  
176 68.8 49.8 74.8





#63

Toluene-d8

Concen: 29.496 ug/l

RT: 10.547 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN087719.D

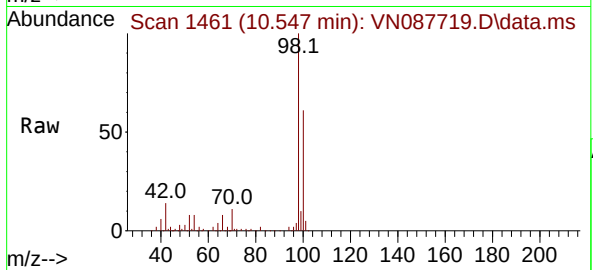
Acq: 04 Sep 2025 13:56

Instrument :

MSVOA\_N

ClientSampleId :

TT-076-IDWGW-20250903

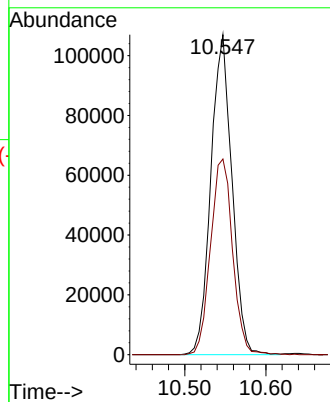
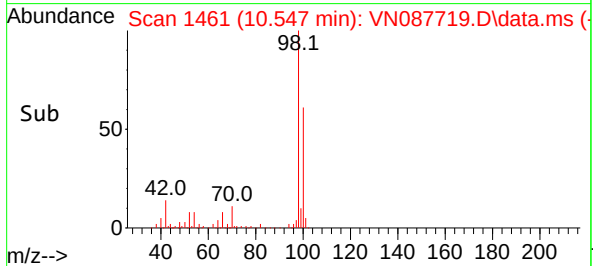


Tgt Ion: 98 Resp: 193077

Ion Ratio Lower Upper

98 100

100 63.6 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087719.D  
Acq On : 04 Sep 2025 13:56  
Operator : JC\MD  
Sample : Q3017-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087719.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.683       | 119           | 124         | 131          | rBV2     | 7287           | 15528         | 2.85%           | 0.650%        |
| 2         | 4.418       | 417           | 419         | 425          | rVB4     | 3795           | 5591          | 1.03%           | 0.234%        |
| 3         | 4.724       | 462           | 471         | 476          | rBV3     | 6146           | 16793         | 3.08%           | 0.703%        |
| 4         | 7.794       | 984           | 993         | 1007         | rBV2     | 96622          | 247417        | 45.44%          | 10.363%       |
| 5         | 8.559       | 1114          | 1123        | 1135         | rBV      | 106249         | 238788        | 43.85%          | 10.001%       |
| 6         | 9.082       | 1203          | 1212        | 1223         | rBV      | 203496         | 415814        | 76.36%          | 17.416%       |
| 7         | 9.335       | 1246          | 1255        | 1261         | rBV      | 35923          | 71265         | 13.09%          | 2.985%        |
| 8         | 10.547      | 1451          | 1461        | 1471         | rBV      | 294554         | 544538        | 100.00%         | 22.808%       |
| 9         | 11.847      | 1674          | 1682        | 1691         | rBV      | 261705         | 494625        | 90.83%          | 20.717%       |
| 10        | 12.829      | 1841          | 1849        | 1864         | rBV      | 171120         | 337177        | 61.92%          | 14.122%       |

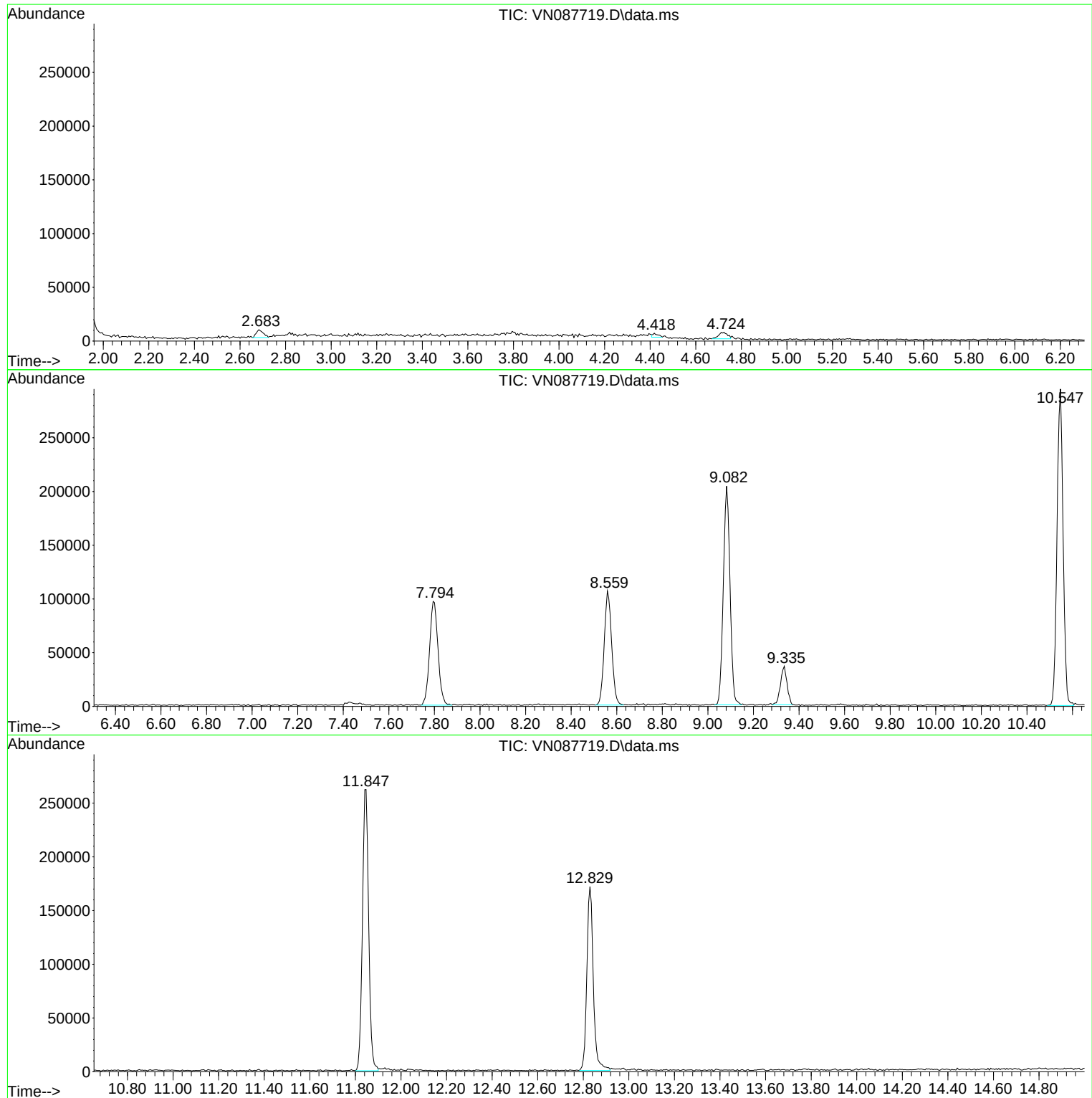
Sum of corrected areas: 2387536

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087719.D  
Acq On : 04 Sep 2025 13:56  
Operator : JC\MD  
Sample : Q3017-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087719.D  
Acq On : 04 Sep 2025 13:56  
Operator : JC\MD  
Sample : Q3017-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087719.D  
Acq On : 04 Sep 2025 13:56  
Operator : JC\MD  
Sample : Q3017-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

-----

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-077-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-03                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087722.D        | 1         | 09/04/25 14:58 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 0.49  | U         | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-077-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-03                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087722.D        | 1         | 09/04/25 14:58 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 29.4   |           | 91 - 110 | 98%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 29.4   |           | 91 - 112 | 98%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 24.0   |           | 63 - 112 | 80%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 42000  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 226000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 201000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: | 09/03/25                     |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  | 09/04/25                     |
| Client Sample ID:  | TT-077-IDWGW-20250903                     | SDG No.:        | Q3017                        |
| Lab Sample ID:     | Q3017-03                                  | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087722.D        | 1         | 09/04/25 14:58 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087722.D  
 Acq On : 04 Sep 2025 14:58  
 Operator : JC\MD  
 Sample : Q3017-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT-077-IDWGW-20250903

Quant Time: Sep 05 02:21:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.794  | 128  | 41995    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.082  | 114  | 225576   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 201361   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 113790   | 29.377   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 97.933% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 83261    | 24.027   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 80.100% |
| 63) Toluene-d8              | 10.547 | 98    | 272481   | 29.409   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 98.033% |

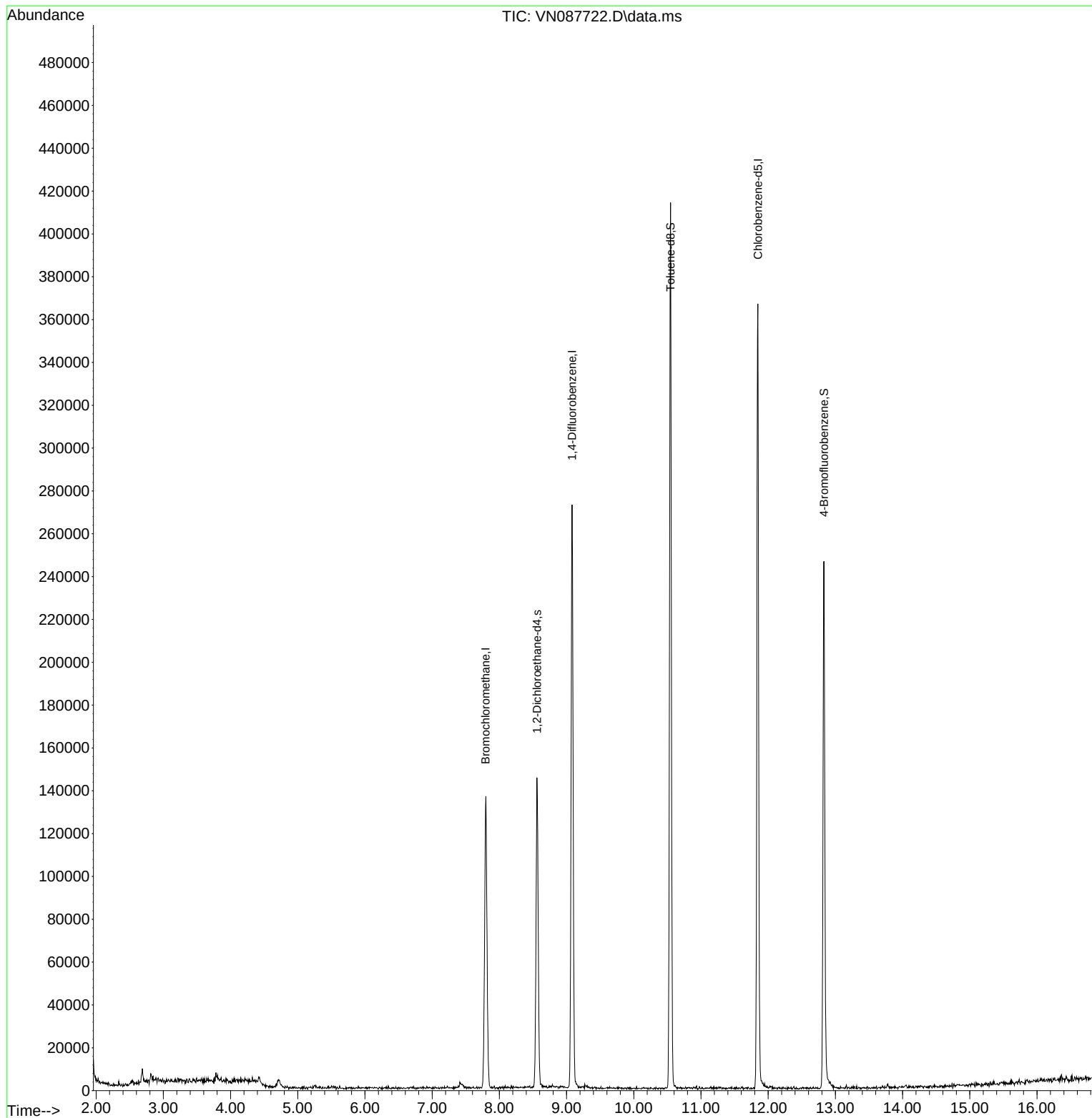
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

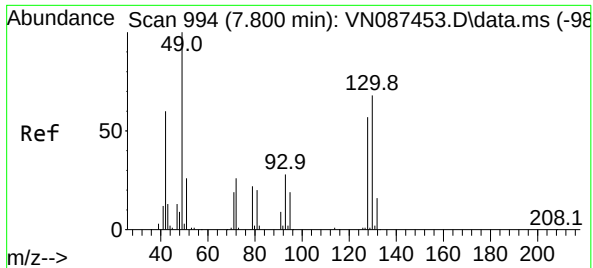
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087722.D  
Acq On : 04 Sep 2025 14:58  
Operator : JC\MD  
Sample : Q3017-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Quant Time: Sep 05 02:21:37 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

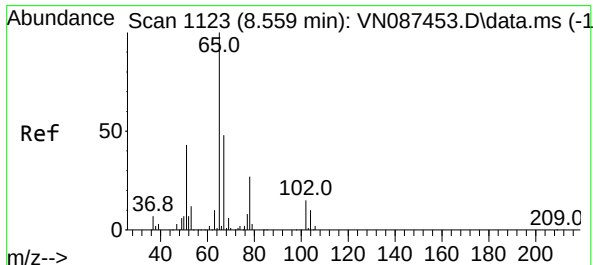
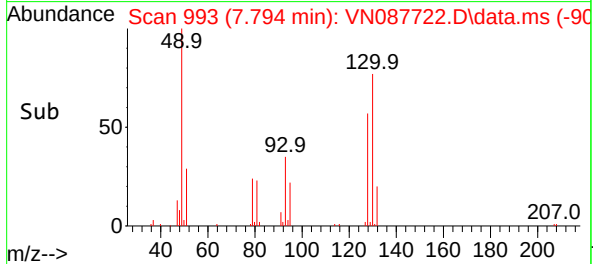
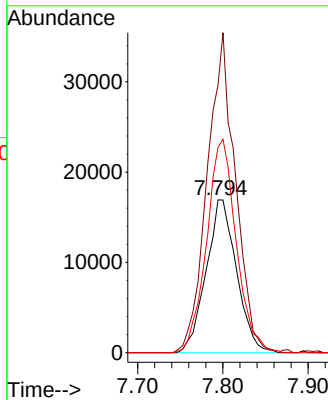
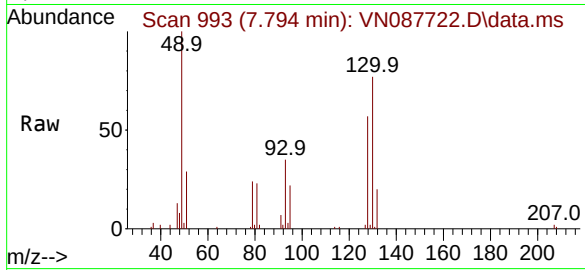




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

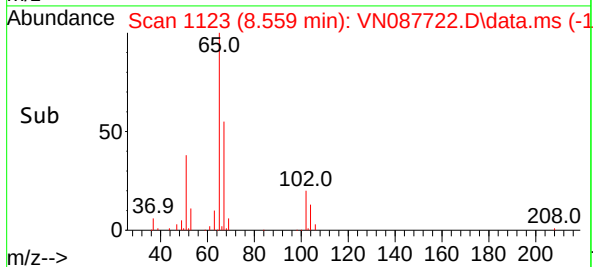
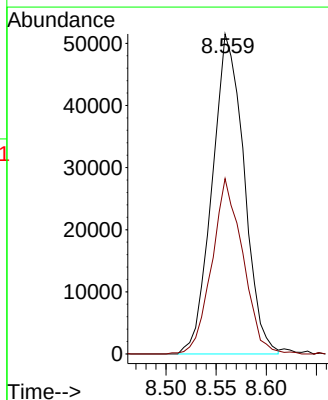
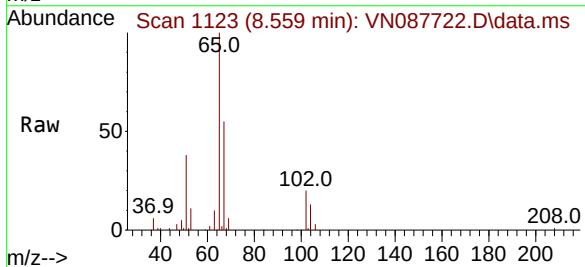
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

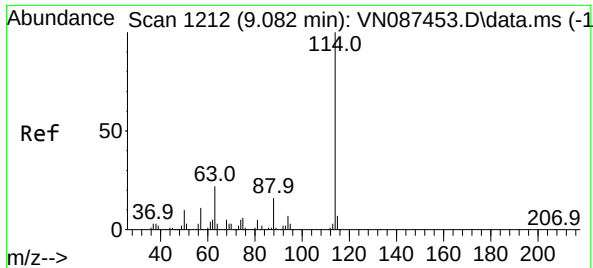
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 193.7 | 0.0   | 494.8 |
| 130     | 136.0 | 0.0   | 321.5 |



#27  
1,2-Dichloroethane-d4  
Concen: 29.377 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.2  | 40.8  | 61.2  |

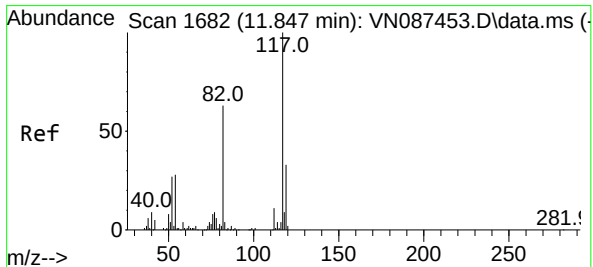
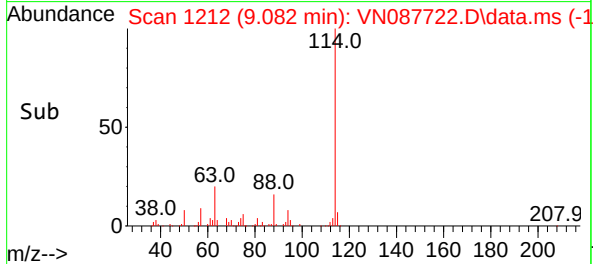
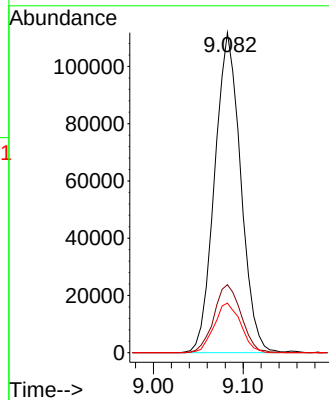
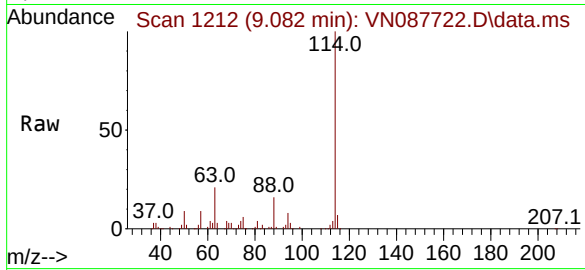




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

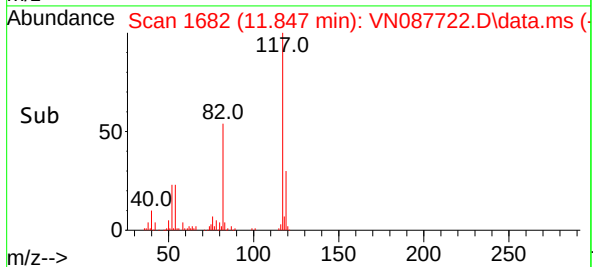
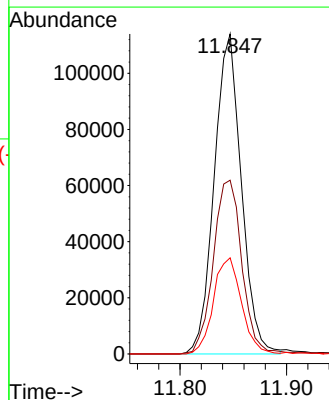
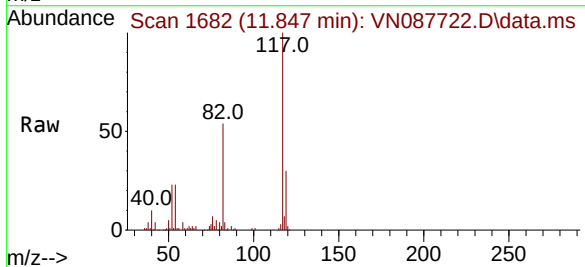
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Tgt Ion:114 Resp: 225576  
Ion Ratio Lower Upper  
114 100  
63 22.1 18.9 28.3  
88 15.8 13.1 19.7

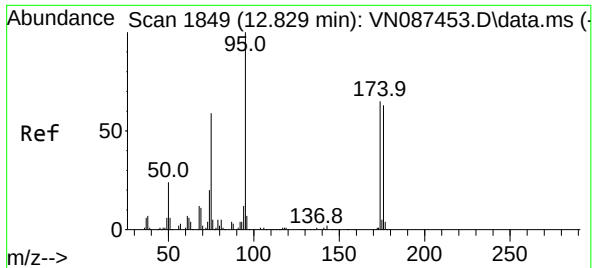


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. -0.000 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

Tgt Ion:117 Resp: 201361  
Ion Ratio Lower Upper  
117 100  
82 57.4 49.2 73.8  
119 31.0 25.7 38.5



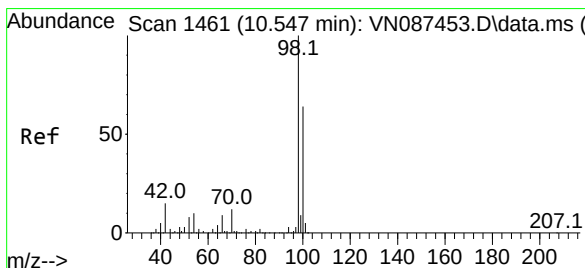
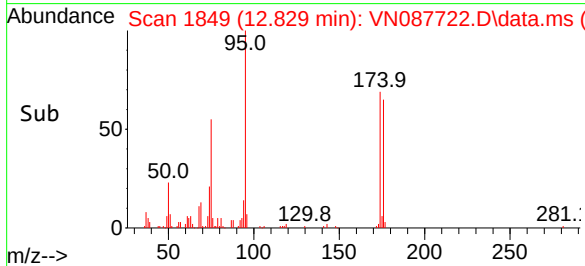
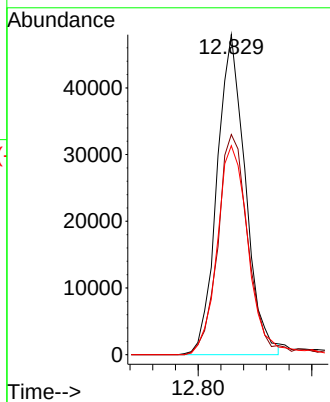
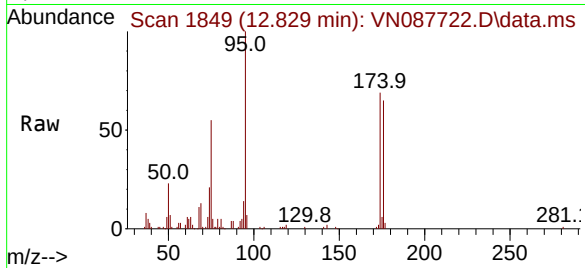




#60  
4-Bromofluorobenzene  
Concen: 24.027 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

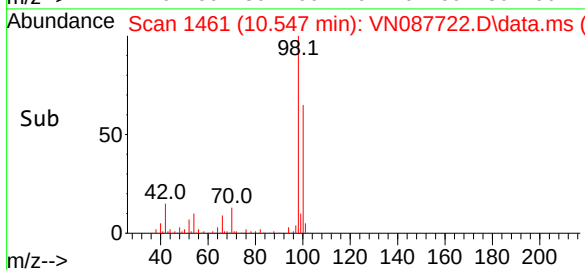
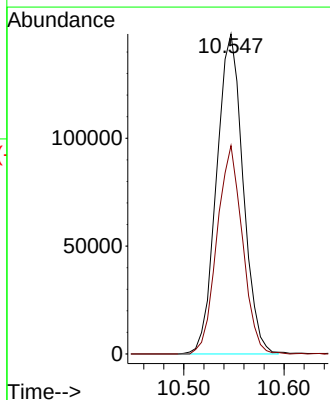
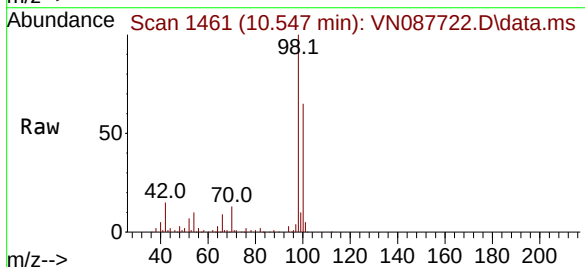
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Tgt Ion: 95 Resp: 83261  
Ion Ratio Lower Upper  
95 100  
174 71.7 52.3 78.5  
176 71.5 49.8 74.8



#63  
Toluene-d8  
Concen: 29.409 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087722.D  
Acq: 04 Sep 2025 14:58

Tgt Ion: 98 Resp: 272481  
Ion Ratio Lower Upper  
98 100  
100 62.6 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087722.D  
Acq On : 04 Sep 2025 14:58  
Operator : JC\MD  
Sample : Q3017-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087722.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.689       | 121           | 125         | 131          | rBV2     | 6365           | 9210          | 1.22%           | 0.293%        |
| 2         | 2.812       | 142           | 146         | 150          | rBV3     | 4978           | 9004          | 1.19%           | 0.286%        |
| 3         | 4.418       | 417           | 419         | 429          | rVB5     | 3873           | 8510          | 1.12%           | 0.270%        |
| 4         | 7.800       | 983           | 994         | 1006         | rBV2     | 136270         | 336272        | 44.44%          | 10.687%       |
| 5         | 8.559       | 1114          | 1123        | 1132         | rBV      | 144607         | 319909        | 42.27%          | 10.167%       |
| 6         | 9.082       | 1200          | 1212        | 1223         | rBV      | 272315         | 576717        | 76.21%          | 18.328%       |
| 7         | 10.547      | 1452          | 1461        | 1471         | rBV      | 413371         | 756749        | 100.00%         | 24.049%       |
| 8         | 11.847      | 1674          | 1682        | 1690         | rBV      | 366354         | 671328        | 88.71%          | 21.335%       |
| 9         | 12.829      | 1837          | 1849        | 1860         | rBV      | 246293         | 458973        | 60.65%          | 14.586%       |

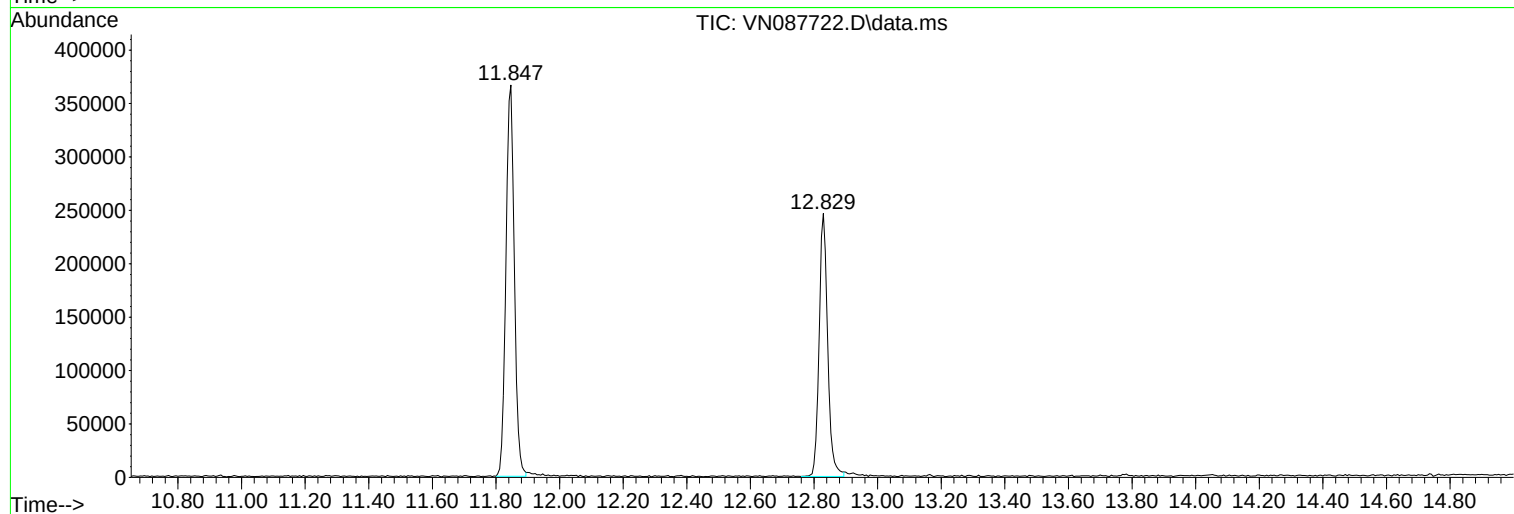
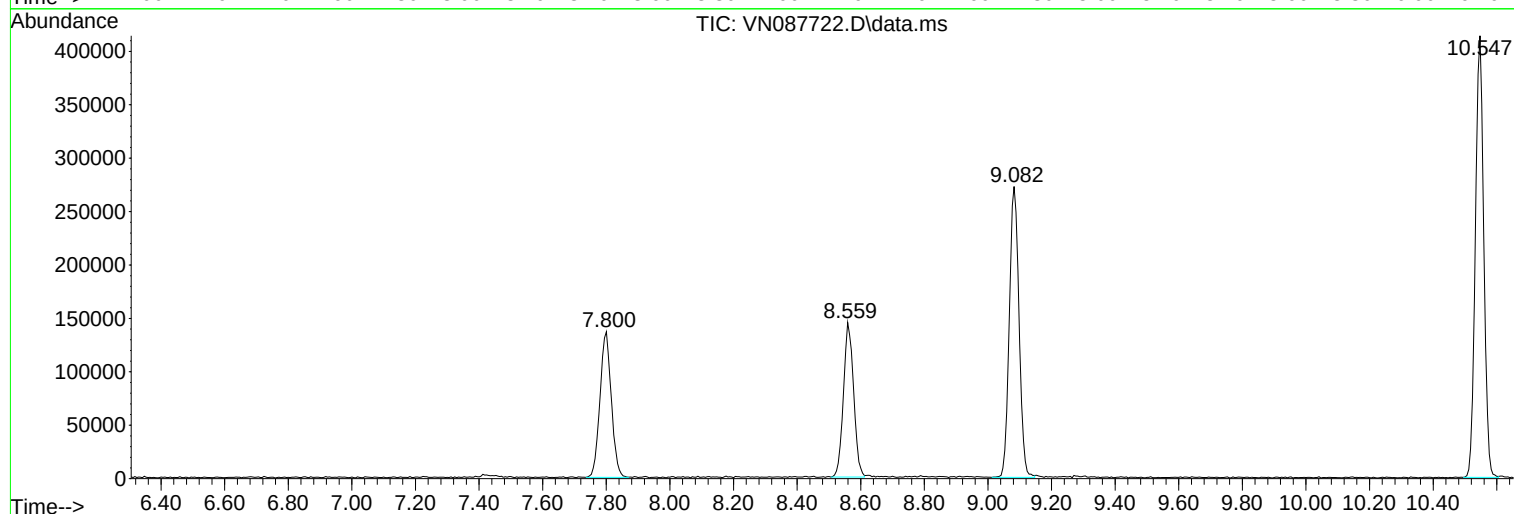
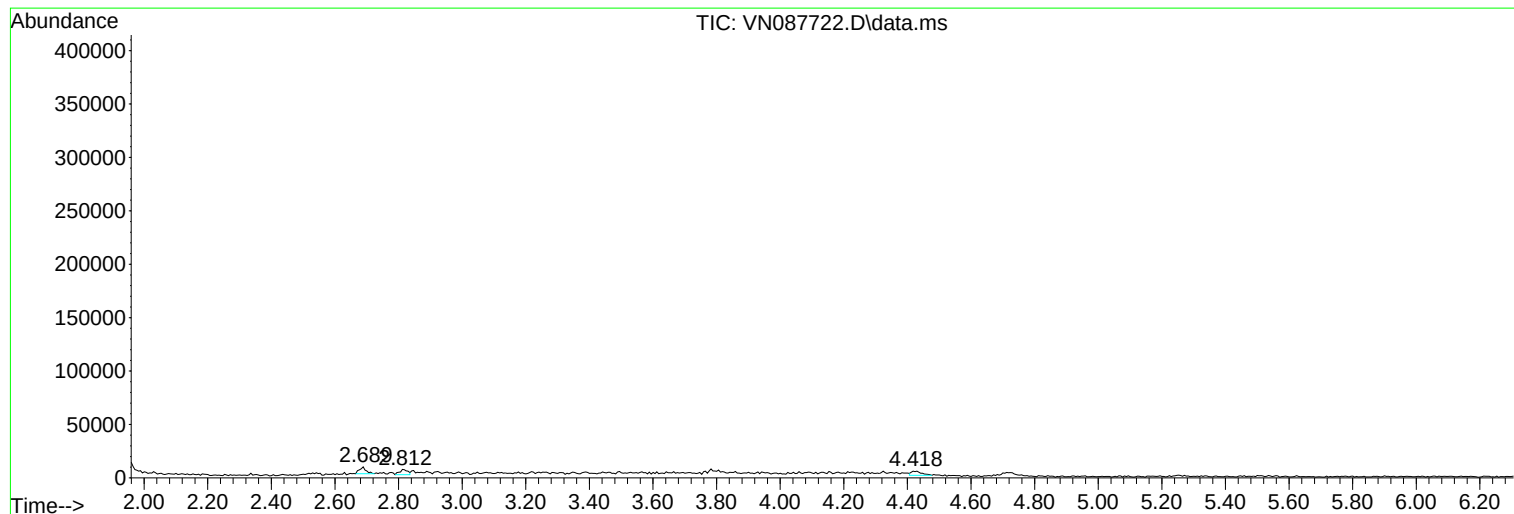
Sum of corrected areas: 3146672

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087722.D  
Acq On : 04 Sep 2025 14:58  
Operator : JC\MD  
Sample : Q3017-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087722.D  
Acq On : 04 Sep 2025 14:58  
Operator : JC\MD  
Sample : Q3017-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087722.D  
Acq On : 04 Sep 2025 14:58  
Operator : JC\MD  
Sample : Q3017-03  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

## Report of Analysis

|                    |                               |        |      |                 |               |
|--------------------|-------------------------------|--------|------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |        |      | Date Collected: | 09/03/25      |
| Project:           | NWIRP Bethpage 112G08005-WE13 |        |      | Date Received:  | 09/04/25      |
| Client Sample ID:  | TT-078-IDWGW-20250903         |        |      | SDG No.:        | Q3017         |
| Lab Sample ID:     | Q3017-04                      |        |      | Matrix:         | Water         |
| Analytical Method: | E624.1                        |        |      | % 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: | Date Analyzed  | Prep Batch ID |
| VN087720.D        | 1         | 09/04/25 14:16 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 0.49  | U         | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-078-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-04                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087720.D        | 1         | 09/04/25 14:16 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 29.2   |           | 91 - 110 | 97%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 29.4   |           | 91 - 112 | 98%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 25.5   |           | 63 - 112 | 85%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 36200  | 7.8       |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 190000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 168000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: | 09/03/25                     |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  | 09/04/25                     |
| Client Sample ID:  | TT-078-IDWGW-20250903                     | SDG No.:        | Q3017                        |
| Lab Sample ID:     | Q3017-04                                  | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087720.D        | 1         | 09/04/25 14:16 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Quant Time: Sep 05 02:20:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.800  | 128  | 36172    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.082  | 114  | 190299   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 168068   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 97530    | 29.233   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 97.433% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 73817    | 25.522   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 85.067% |
| 63) Toluene-d8              | 10.547 | 98    | 227103   | 29.367   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 97.900% |

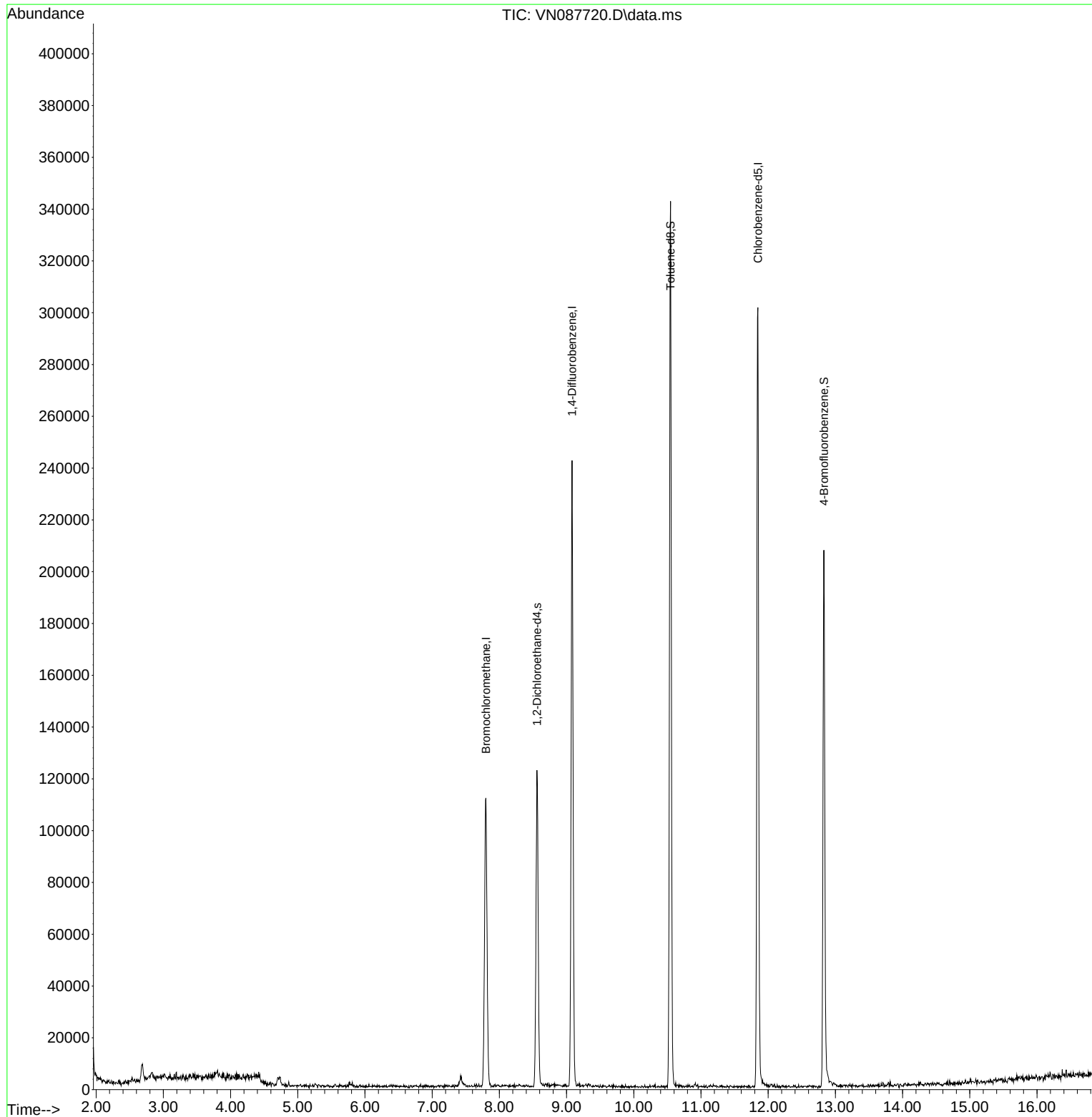
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

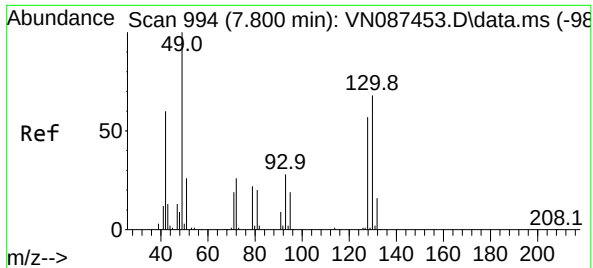
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Quant Time: Sep 05 02:20:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

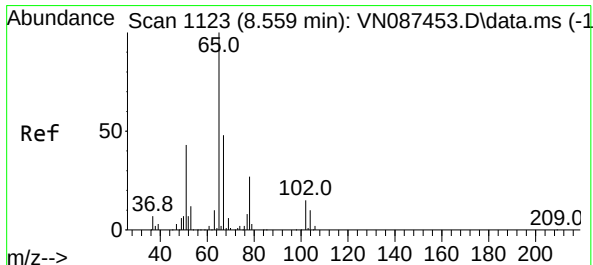
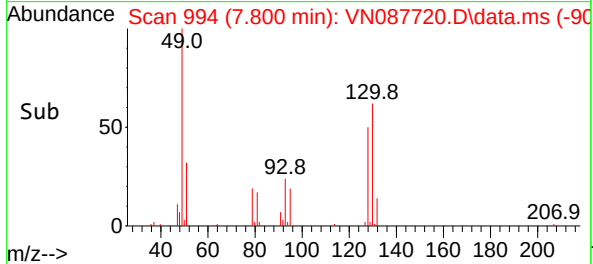
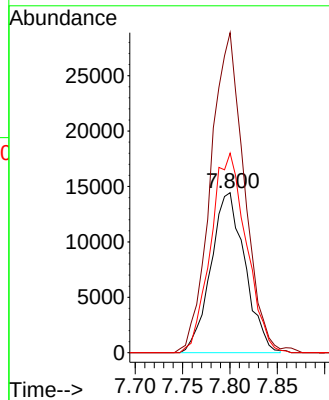
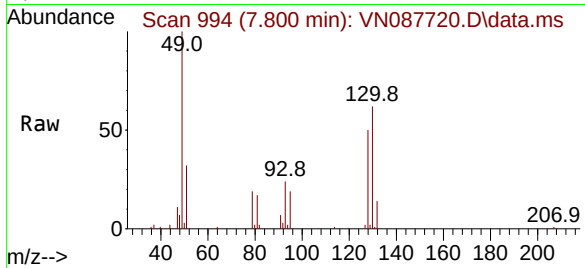




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087720.D  
Acq: 04 Sep 2025 14:16

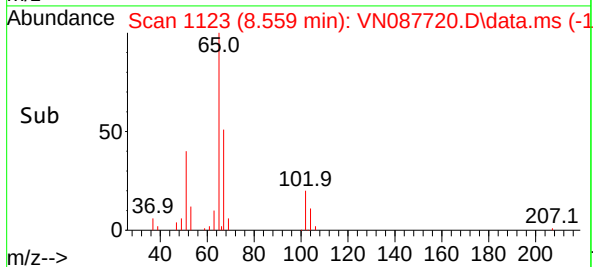
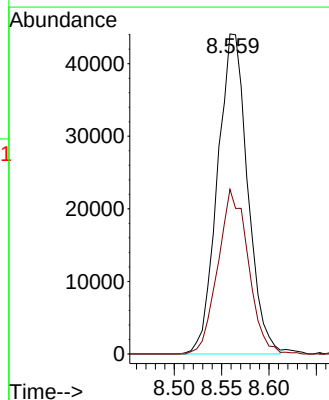
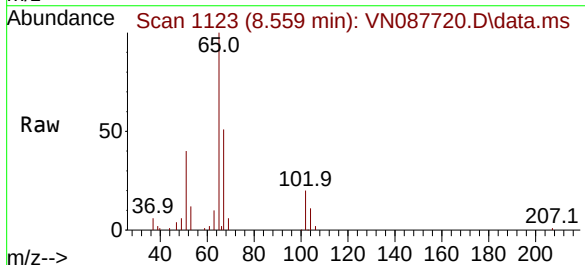
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

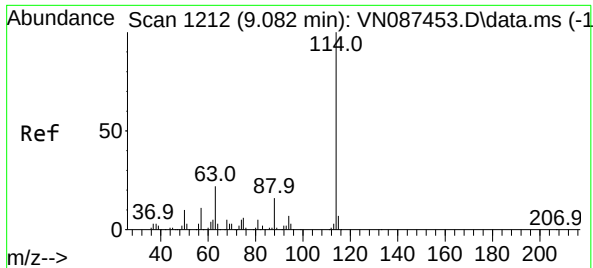
Tgt Ion:128 Resp: 36172  
Ion Ratio Lower Upper  
128 100  
49 196.7 0.0 494.8  
130 130.3 0.0 321.5



#27  
1,2-Dichloroethane-d4  
Concen: 29.233 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087720.D  
Acq: 04 Sep 2025 14:16

Tgt Ion: 65 Resp: 97530  
Ion Ratio Lower Upper  
65 100  
67 51.7 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087720.D

Acq: 04 Sep 2025 14:16

Instrument :

MSVOA\_N

ClientSampleId :

TT-078-IDWGW-20250903

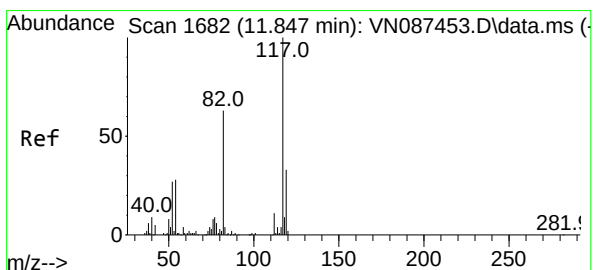
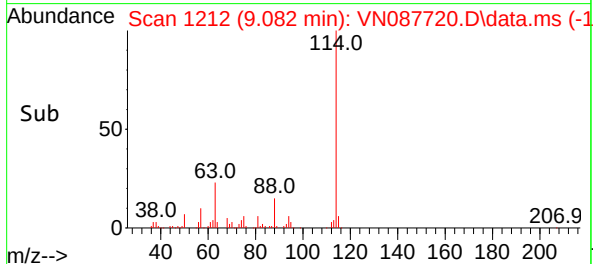
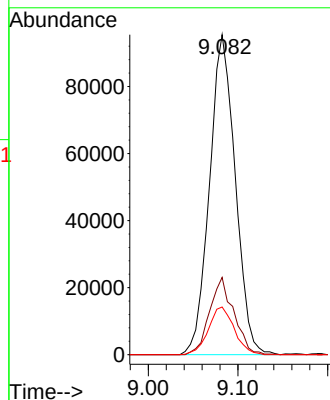
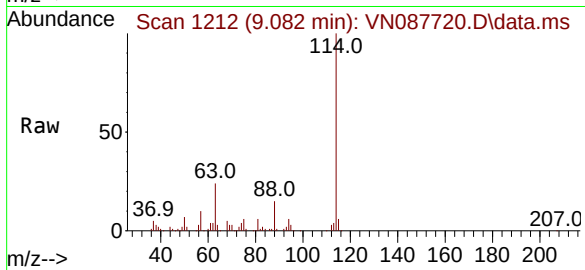
Tgt Ion:114 Resp: 190299

Ion Ratio Lower Upper

114 100

63 22.7 18.9 28.3

88 14.9 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VN087720.D

Acq: 04 Sep 2025 14:16

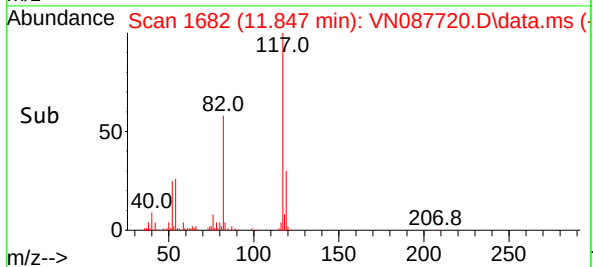
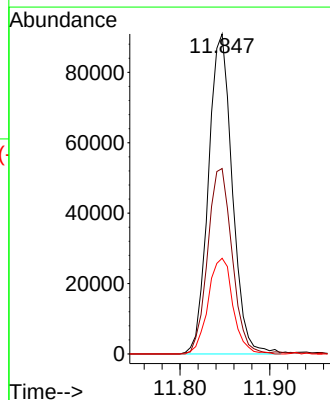
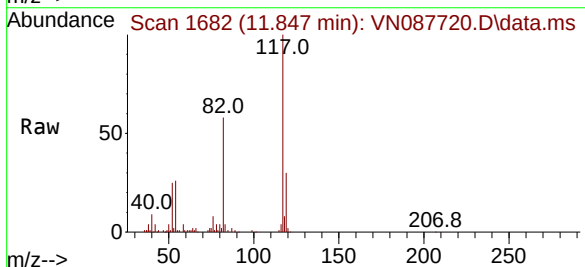
Tgt Ion:117 Resp: 168068

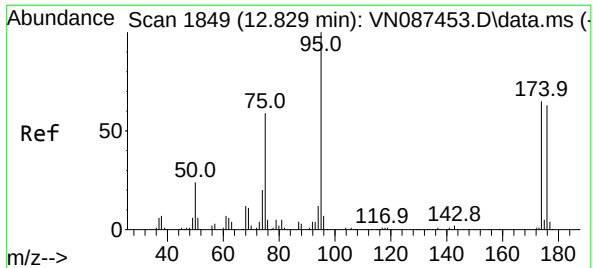
Ion Ratio Lower Upper

117 100

82 59.3 49.2 73.8

119 30.9 25.7 38.5

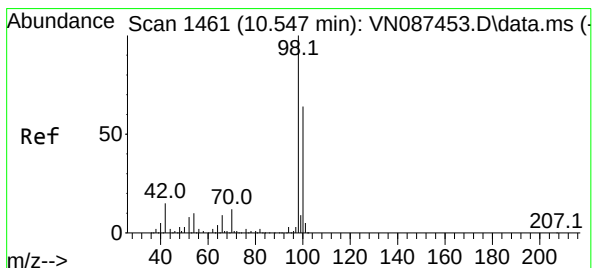
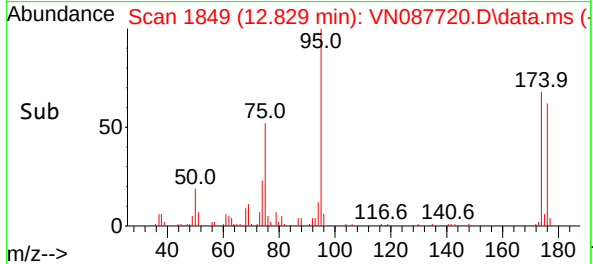
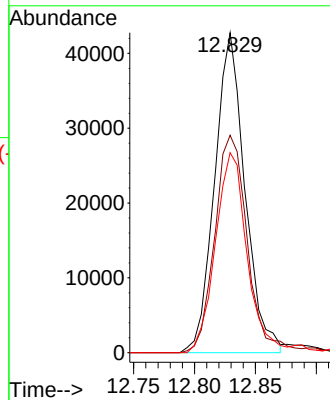
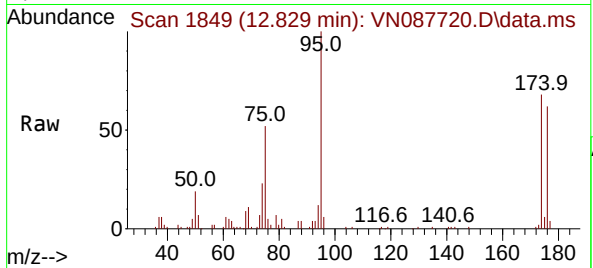




#60  
4-Bromofluorobenzene  
Concen: 25.522 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087720.D  
Acq: 04 Sep 2025 14:16

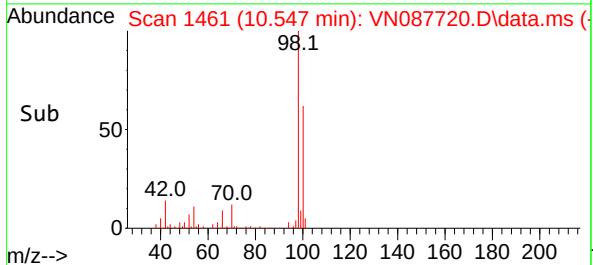
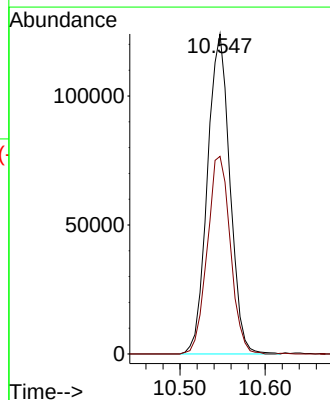
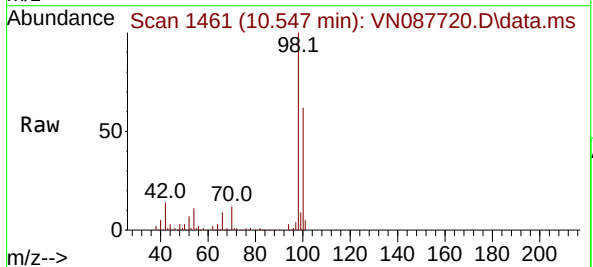
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Tgt Ion: 95 Resp: 73817  
Ion Ratio Lower Upper  
95 100  
174 71.3 52.3 78.5  
176 65.0 49.8 74.8



#63  
Toluene-d8  
Concen: 29.367 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087720.D  
Acq: 04 Sep 2025 14:16

Tgt Ion: 98 Resp: 227103  
Ion Ratio Lower Upper  
98 100  
100 63.4 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087720.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.689       | 118           | 125         | 131          | rBV3     | 7067           | 16840         | 2.64%           | 0.630%        |
| 2         | 7.424       | 923           | 930         | 934          | rBV3     | 4134           | 8192          | 1.28%           | 0.307%        |
| 3         | 7.800       | 983           | 994         | 1004         | rBV2     | 111567         | 289639        | 45.42%          | 10.842%       |
| 4         | 8.559       | 1114          | 1123        | 1134         | rBV      | 122350         | 275512        | 43.21%          | 10.314%       |
| 5         | 9.082       | 1203          | 1212        | 1223         | rVB      | 241559         | 483394        | 75.81%          | 18.095%       |
| 6         | 10.547      | 1453          | 1461        | 1473         | rBV      | 342175         | 637680        | 100.00%         | 23.871%       |
| 7         | 11.847      | 1674          | 1682        | 1693         | rBV      | 300850         | 569646        | 89.33%          | 21.324%       |
| 8         | 12.829      | 1841          | 1849        | 1862         | rBV      | 207345         | 390450        | 61.23%          | 14.616%       |

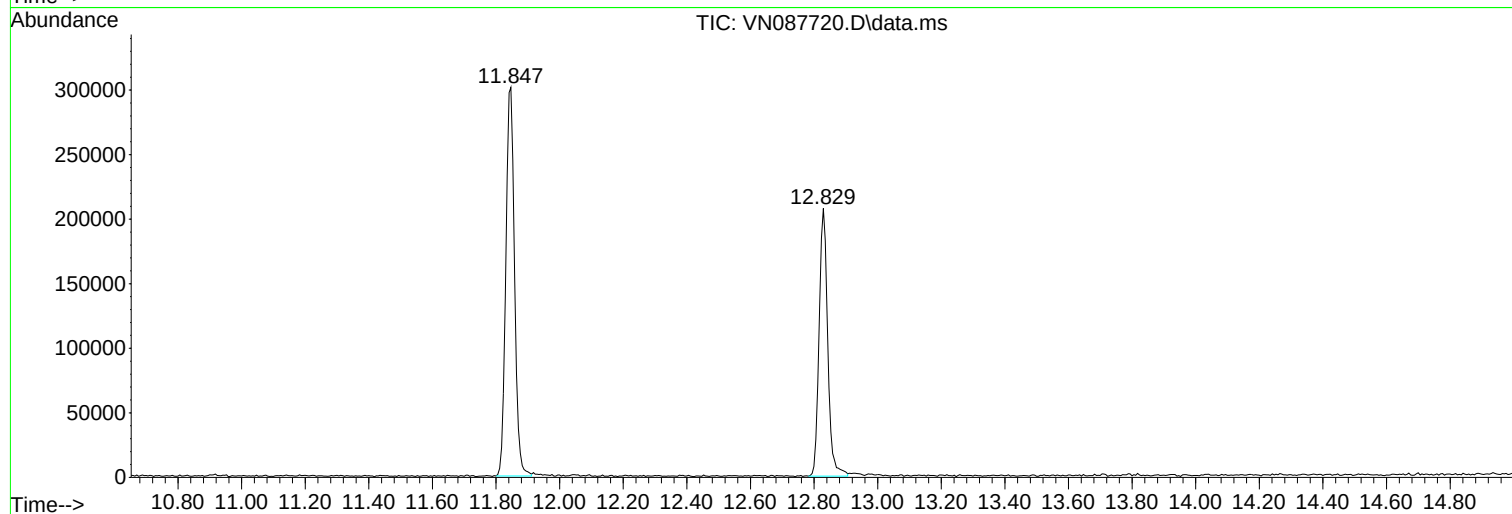
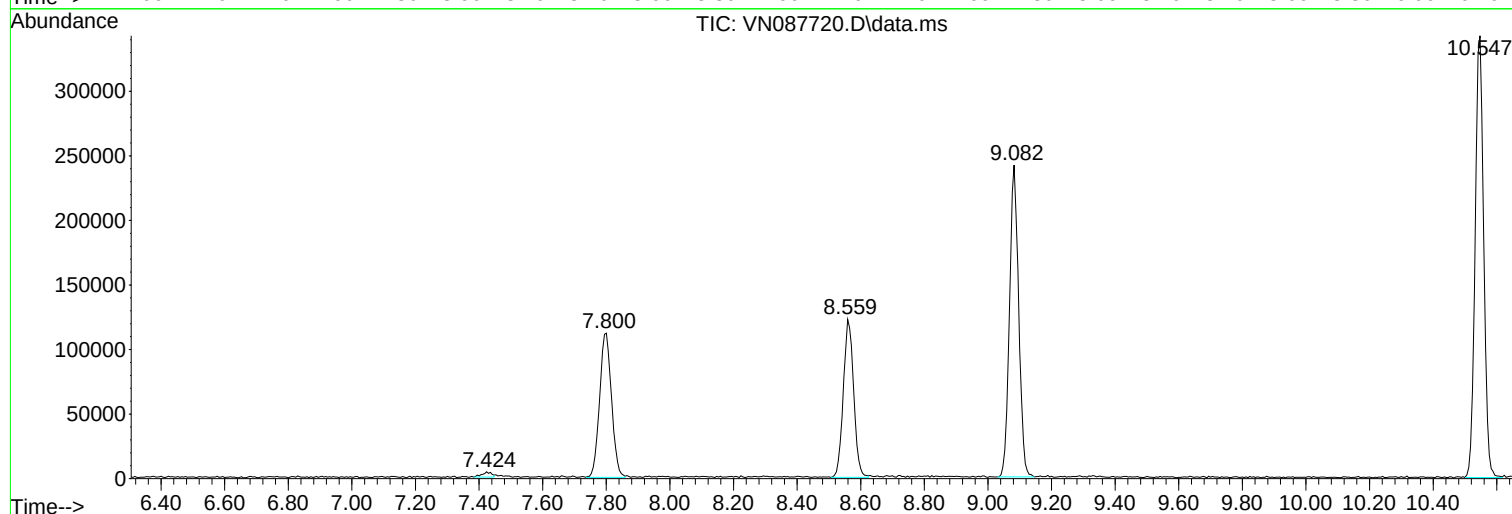
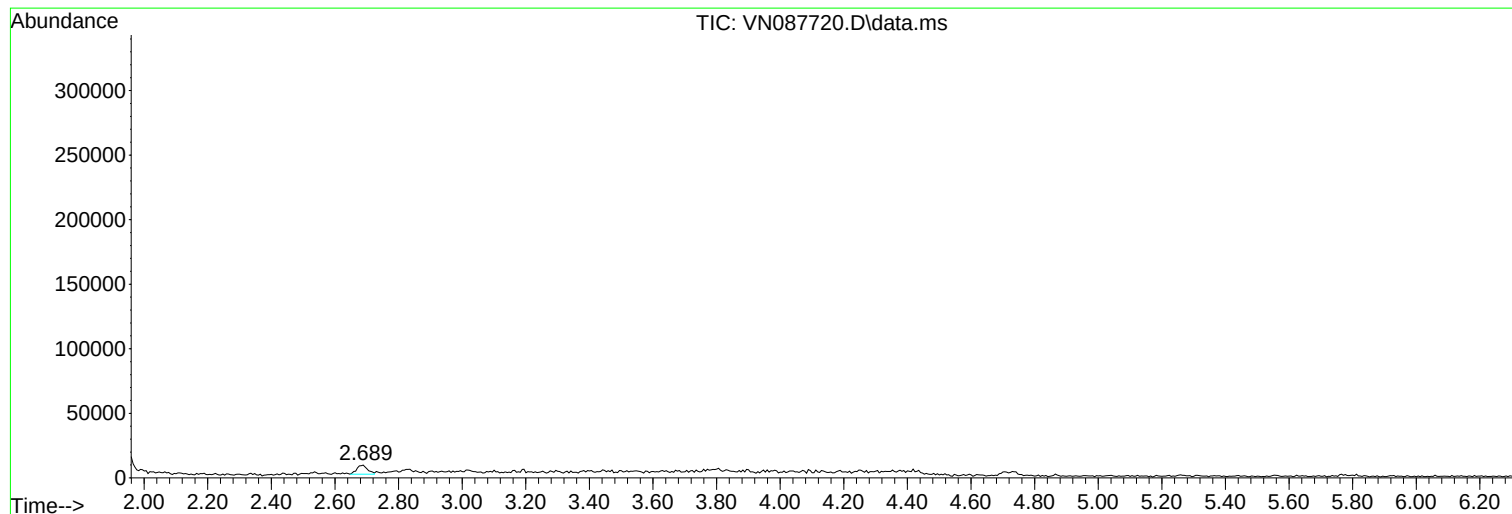
Sum of corrected areas: 2671353

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087720.D  
Acq On : 04 Sep 2025 14:16  
Operator : JC\MD  
Sample : Q3017-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-079-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-05                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087721.D        | 1         | 09/04/25 14:37 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 0.49  | U         | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |    |
|--------------------|-------------------------------|-----------|-----------------|---------------|----|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: | 09/03/25      |    |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  | 09/04/25      |    |
| Client Sample ID:  | TT-079-IDWGW-20250903         |           | SDG No.:        | Q3017         |    |
| Lab Sample ID:     | Q3017-05                      |           | Matrix:         | Water         |    |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087721.D        | 1         | 09/04/25 14:37 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 29.4   |           | 91 - 110 | 98%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 30.7   |           | 91 - 112 | 102%       | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 25.4   |           | 63 - 112 | 85%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 39100  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 203000 | 9.083     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 175000 | 11.841    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: | 09/03/25                     |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  | 09/04/25                     |
| Client Sample ID:  | TT-079-IDWGW-20250903                     | SDG No.:        | Q3017                        |
| Lab Sample ID:     | Q3017-05                                  | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087721.D        | 1         | 09/04/25 14:37 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Quant Time: Sep 05 02:21:17 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.794  | 128  | 39130    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.083  | 114  | 202717   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.841 | 117  | 174966   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 8.565  | 65    | 106030   | 29.378   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 97.933%  |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 76366    | 25.362   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 84.533%  |
| 63) Toluene-d8              | 10.547 | 98    | 247129   | 30.697   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 102.333% |

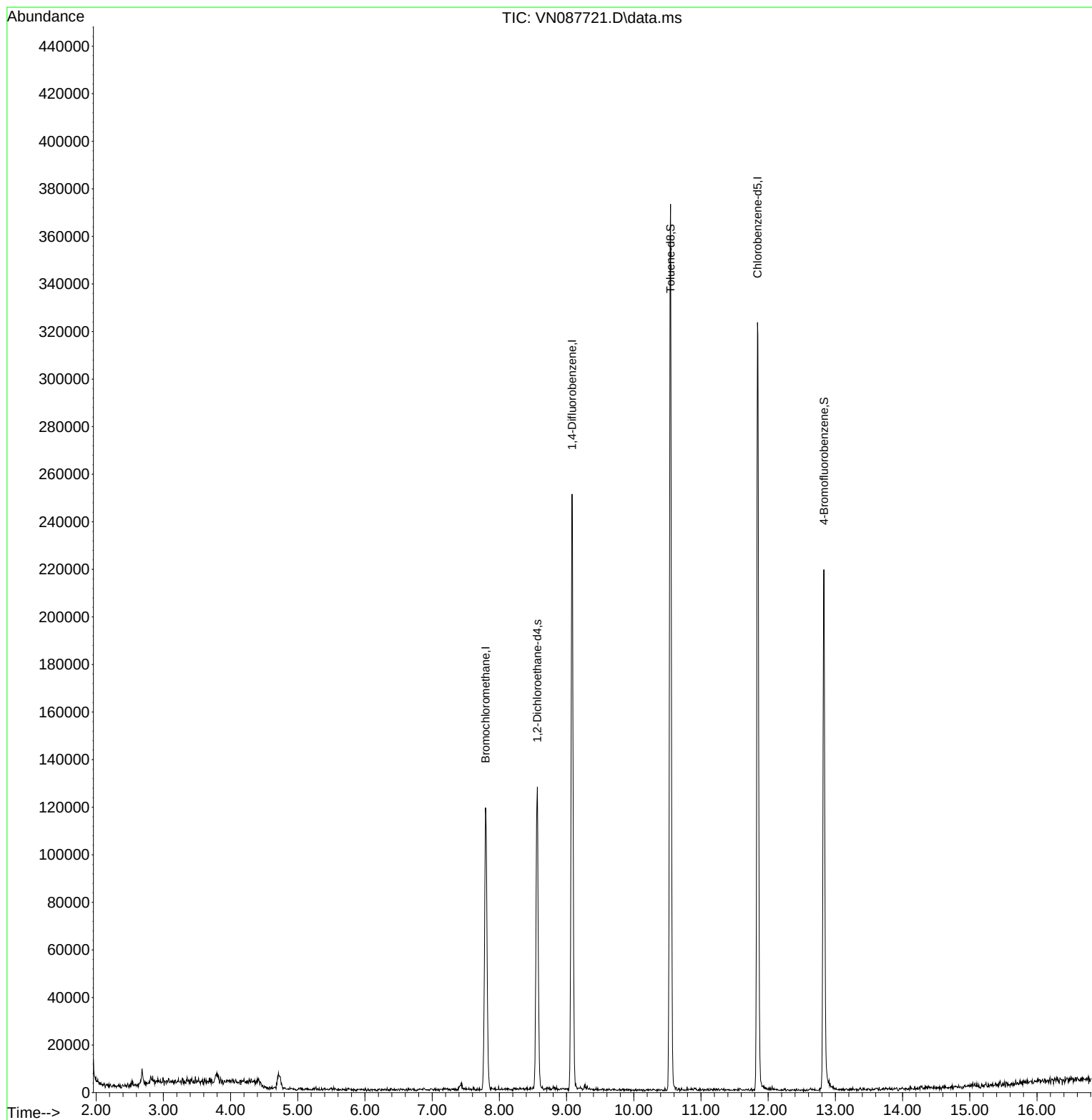
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

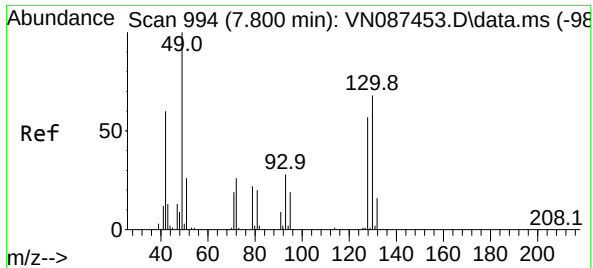
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Quant Time: Sep 05 02:21:17 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

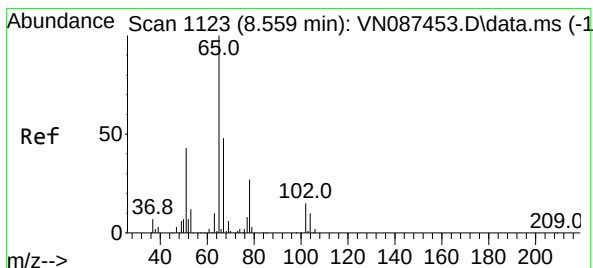
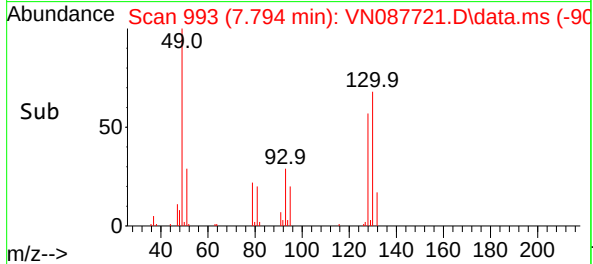
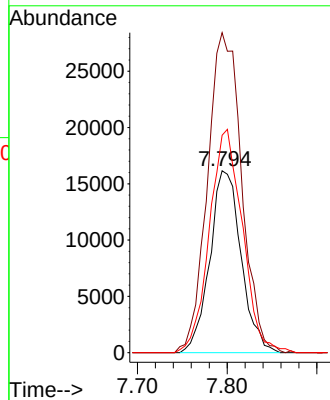
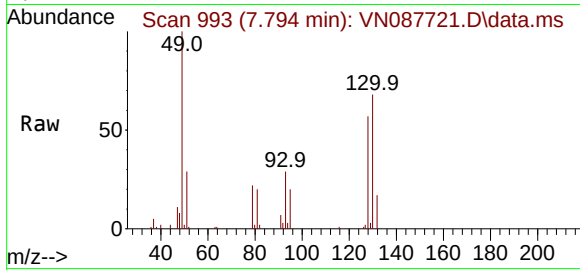




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087721.D  
Acq: 04 Sep 2025 14:37

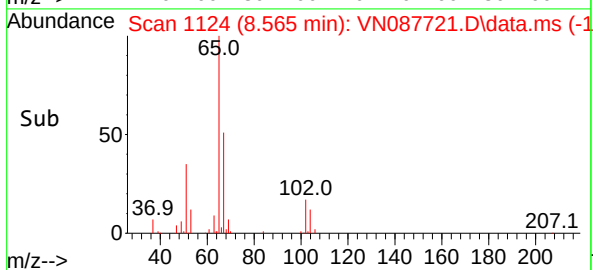
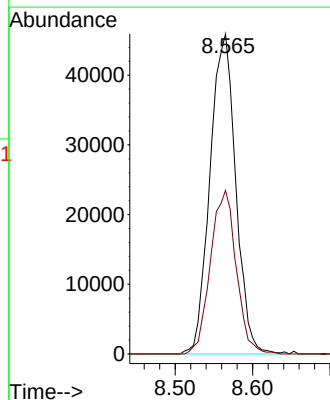
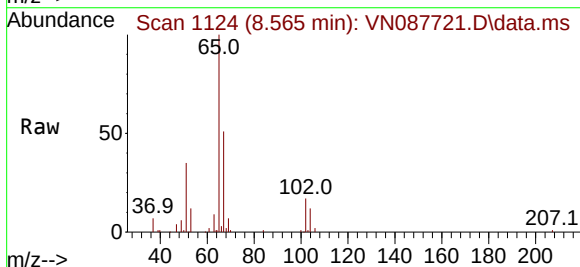
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

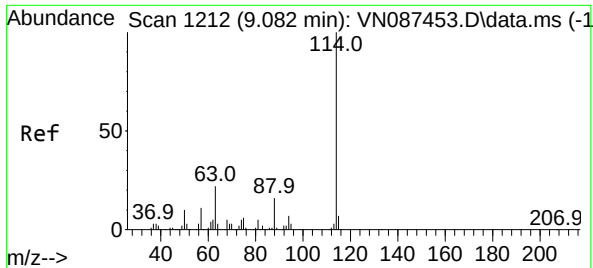
| Tgt Ion | 128   | 49    | 130   |
|---------|-------|-------|-------|
| Resp:   | 39130 | 192.1 | 129.7 |
| Ratio   | 100   | 192.1 | 129.7 |
| Lower   |       | 0.0   | 0.0   |
| Upper   |       | 494.8 | 321.5 |



#27  
1,2-Dichloroethane-d4  
Concen: 29.378 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.006 min  
Lab File: VN087721.D  
Acq: 04 Sep 2025 14:37

| Tgt Ion | 65     | 67   |
|---------|--------|------|
| Resp:   | 106030 | 51.0 |
| Ratio   | 100    | 51.0 |
| Lower   |        | 40.8 |
| Upper   |        | 61.2 |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087721.D

Acq: 04 Sep 2025 14:37

Instrument :

MSVOA\_N

ClientSampleId :

TT-079-IDWGW-20250903

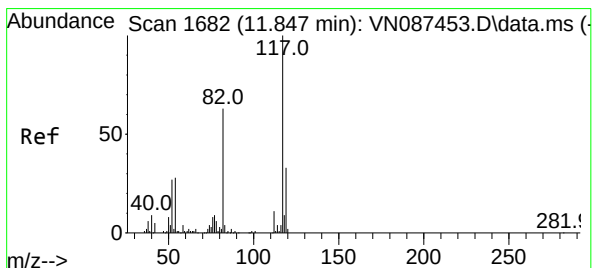
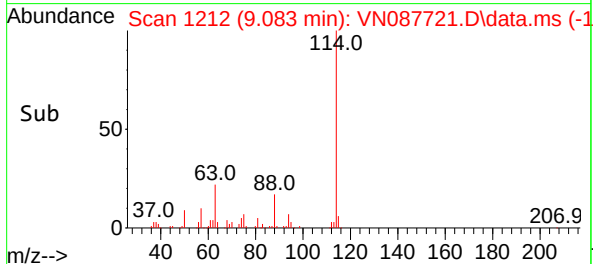
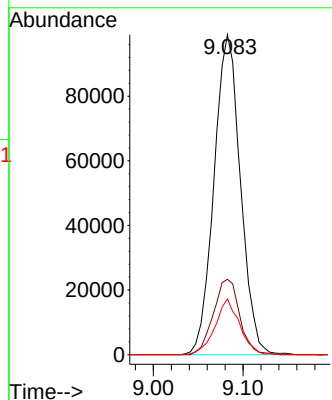
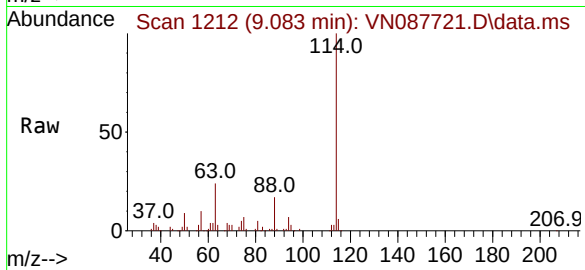
Tgt Ion:114 Resp: 202717

Ion Ratio Lower Upper

114 100

63 23.3 18.9 28.3

88 16.1 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.841 min Scan# 1681

Delta R.T. -0.006 min

Lab File: VN087721.D

Acq: 04 Sep 2025 14:37

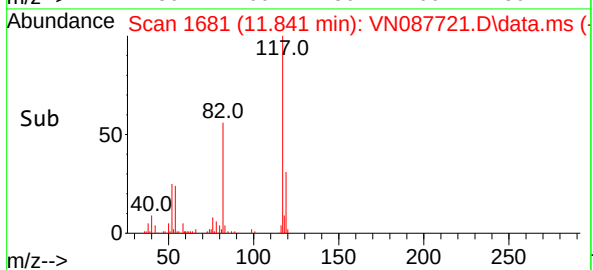
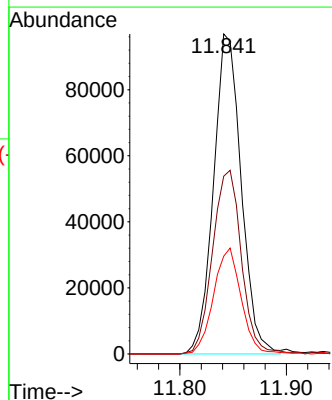
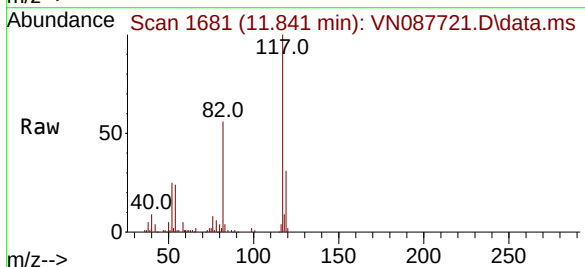
Tgt Ion:117 Resp: 174966

Ion Ratio Lower Upper

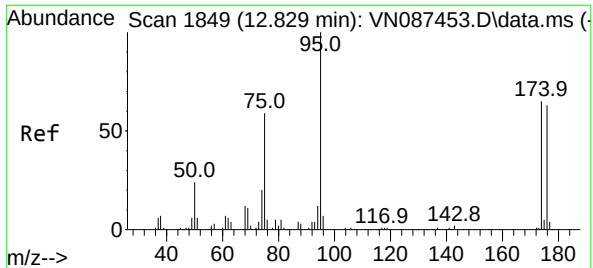
117 100

82 59.6 49.2 73.8

119 32.9 25.7 38.5



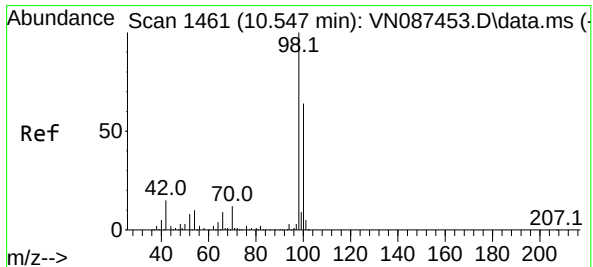
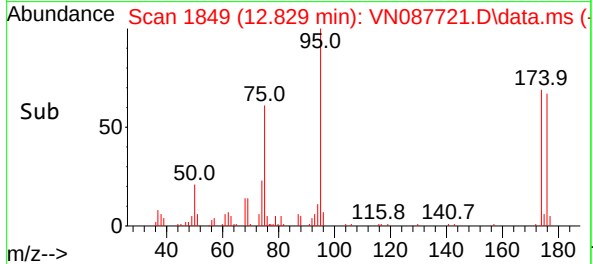
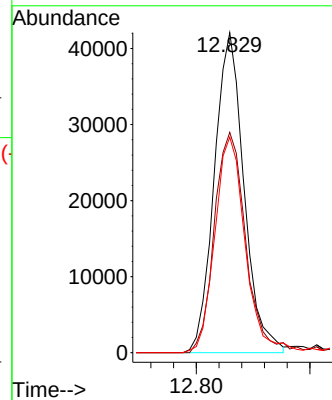
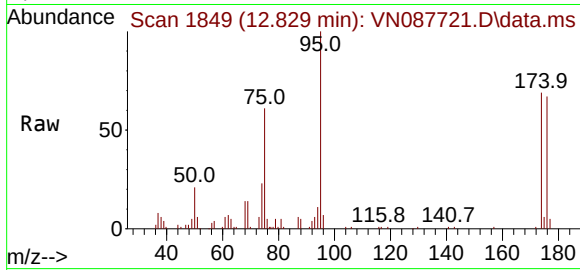




#60  
4-Bromofluorobenzene  
Concen: 25.362 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087721.D  
Acq: 04 Sep 2025 14:37

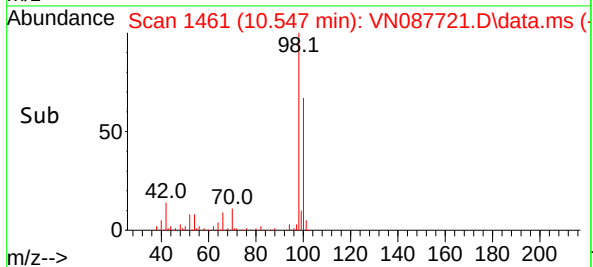
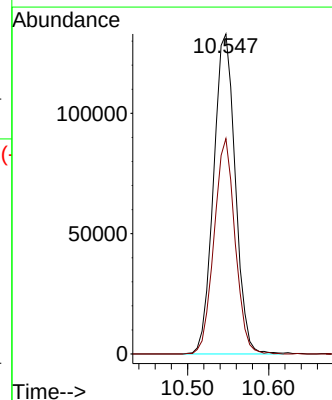
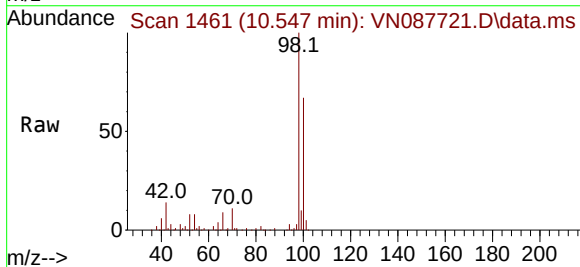
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Tgt Ion: 95 Resp: 76366  
Ion Ratio Lower Upper  
95 100  
174 71.5 52.3 78.5  
176 69.0 49.8 74.8



#63  
Toluene-d8  
Concen: 30.697 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087721.D  
Acq: 04 Sep 2025 14:37

Tgt Ion: 98 Resp: 247129  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087721.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.683       | 115           | 124         | 129          | rBV      | 7696           | 16021         | 2.32%           | 0.560%        |
| 2         | 4.712       | 463           | 469         | 472          | rBV4     | 6675           | 14141         | 2.04%           | 0.495%        |
| 3         | 7.436       | 923           | 932         | 935          | rBV2     | 3293           | 7395          | 1.07%           | 0.259%        |
| 4         | 7.794       | 983           | 993         | 1005         | rBV2     | 118671         | 304018        | 43.93%          | 10.636%       |
| 5         | 8.565       | 1115          | 1124        | 1136         | rBV2     | 126847         | 291142        | 42.07%          | 10.185%       |
| 6         | 9.083       | 1203          | 1212        | 1225         | rBV      | 250921         | 523983        | 75.72%          | 18.331%       |
| 7         | 10.547      | 1450          | 1461        | 1473         | rBV      | 372783         | 691989        | 100.00%         | 24.209%       |
| 8         | 11.841      | 1673          | 1681        | 1692         | rBV      | 323005         | 605211        | 87.46%          | 21.173%       |
| 9         | 12.829      | 1842          | 1849        | 1860         | rBV      | 218186         | 404523        | 58.46%          | 14.152%       |

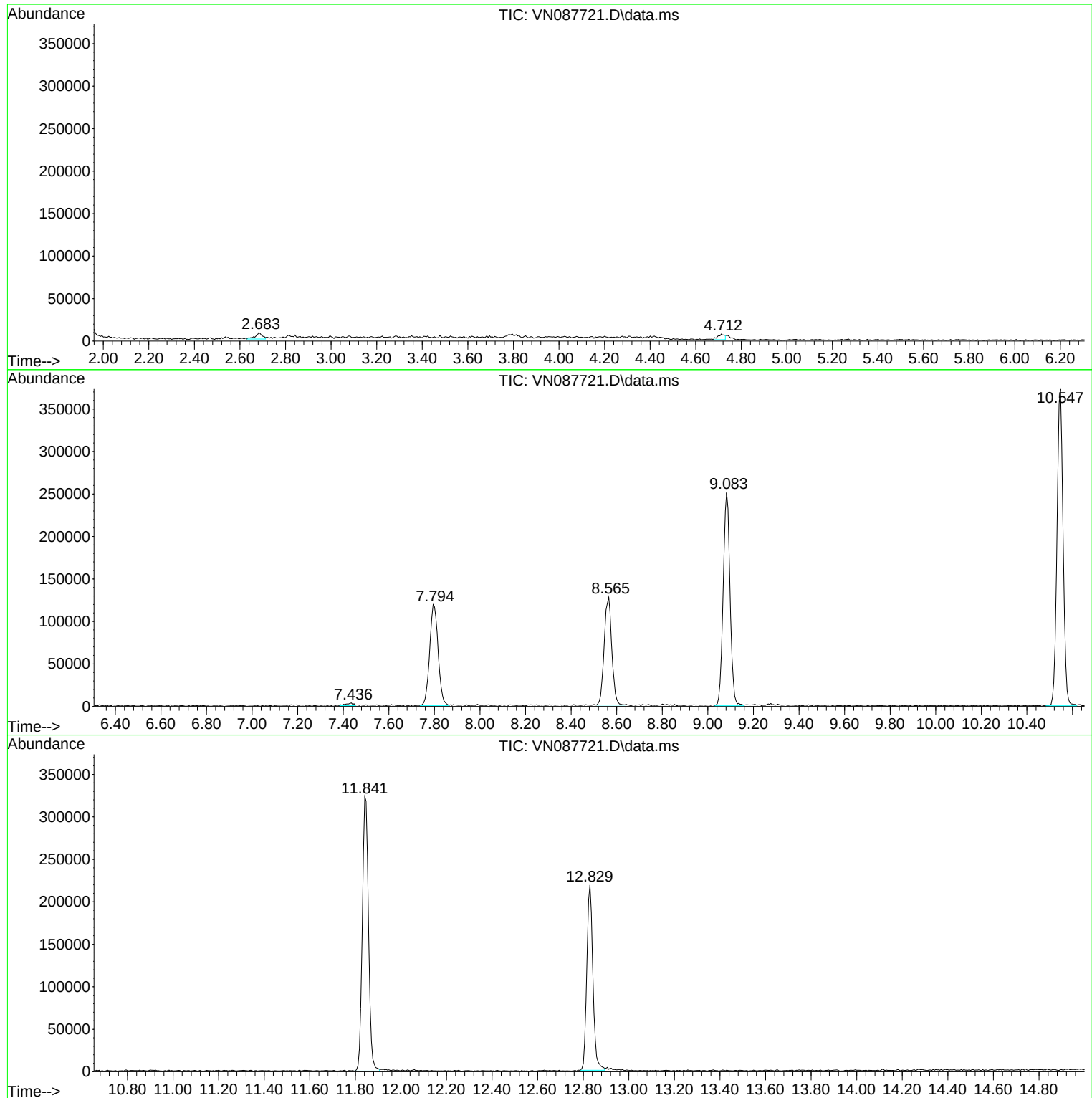
Sum of corrected areas: 2858423

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087721.D  
Acq On : 04 Sep 2025 14:37  
Operator : JC\MD  
Sample : Q3017-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

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# CALIBRATION SUMMARY



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

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q3017  
 Instrument ID: MSVOA\_N Calibration Date(s): 08/05/2025 08/05/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 13:37 15:01  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:                   |  | RRF005 = VN087452.D |        | RRF020 = VN087453.D |        | RRF050 = VN087454.D |     | RRF100 = VN087455.D |  | RRF150 = VN087456.D |  | RRF = |  |  |       |
|--------------------------------|--|---------------------|--------|---------------------|--------|---------------------|-----|---------------------|--|---------------------|--|-------|--|--|-------|
| COMPOUND                       |  | RRF005              | RRF020 | RRF050              | RRF100 | RRF150              | RRF |                     |  |                     |  |       |  |  | % RSD |
| Dichlorodifluoromethane        |  | 1.779               | 2.065  | 1.842               | 2.012  | 2.094               |     | 1.959               |  |                     |  |       |  |  | 7.1   |
| Chloromethane                  |  | 1.994               | 2.165  | 1.805               | 1.983  | 2.101               |     | 2.010               |  |                     |  |       |  |  | 6.8   |
| Vinyl Chloride                 |  | 2.092               | 2.289  | 1.905               | 2.161  | 2.210               |     | 2.131               |  |                     |  |       |  |  | 6.8   |
| Bromomethane                   |  | 1.027               | 1.160  | 1.070               | 1.220  | 1.291               |     | 1.154               |  |                     |  |       |  |  | 9.3   |
| Chloroethane                   |  | 1.413               | 1.441  | 1.211               | 1.381  | 1.427               |     | 1.374               |  |                     |  |       |  |  | 6.8   |
| Trichlorofluoromethane         |  | 3.231               | 3.208  | 2.715               | 3.043  | 3.141               |     | 3.067               |  |                     |  |       |  |  | 6.9   |
| 1,1,2-Trichlorotrifluoroethane |  | 1.716               | 1.591  | 1.388               | 1.528  | 1.598               |     | 1.564               |  |                     |  |       |  |  | 7.7   |
| 1,1-Dichloroethene             |  | 1.704               | 1.730  | 1.440               | 1.616  | 1.725               |     | 1.643               |  |                     |  |       |  |  | 7.5   |
| Acetone                        |  | 0.421               | 0.418  | 0.335               | 0.356  | 0.361               |     | 0.378               |  |                     |  |       |  |  | 10.3  |
| Carbon Disulfide               |  | 5.413               | 5.176  | 4.534               | 5.095  | 5.266               |     | 5.097               |  |                     |  |       |  |  | 6.6   |
| Methyl tert-Butyl Ether        |  | 7.611               | 7.656  | 6.765               | 7.529  | 7.874               |     | 7.487               |  |                     |  |       |  |  | 5.7   |
| Methyl Acetate                 |  | 2.942               | 3.094  | 2.763               | 3.128  | 3.234               |     | 3.032               |  |                     |  |       |  |  | 6.1   |
| Methylene Chloride             |  | 2.274               | 2.168  | 1.887               | 2.100  | 2.148               |     | 2.115               |  |                     |  |       |  |  | 6.7   |
| trans-1,2-Dichloroethene       |  | 2.081               | 2.014  | 1.729               | 1.927  | 2.019               |     | 1.954               |  |                     |  |       |  |  | 7     |
| 1,1-Dichloroethane             |  | 3.979               | 4.147  | 3.567               | 3.949  | 4.076               |     | 3.944               |  |                     |  |       |  |  | 5.7   |
| Cyclohexane                    |  | 0.573               | 0.582  | 0.517               | 0.581  | 0.581               |     | 0.567               |  |                     |  |       |  |  | 4.9   |
| 2-Butanone                     |  | 0.377               | 0.365  | 0.334               | 0.365  | 0.363               |     | 0.361               |  |                     |  |       |  |  | 4.5   |
| Carbon Tetrachloride           |  | 0.536               | 0.520  | 0.474               | 0.527  | 0.535               |     | 0.518               |  |                     |  |       |  |  | 4.9   |
| cis-1,2-Dichloroethene         |  | 2.477               | 2.499  | 2.149               | 2.403  | 2.493               |     | 2.404               |  |                     |  |       |  |  | 6.1   |
| Chloroform                     |  | 4.236               | 4.223  | 3.738               | 4.105  | 4.280               |     | 4.116               |  |                     |  |       |  |  | 5.4   |
| 1,1,1-Trichloroethane          |  | 0.651               | 0.618  | 0.571               | 0.636  | 0.645               |     | 0.624               |  |                     |  |       |  |  | 5.2   |
| Methylcyclohexane              |  | 0.603               | 0.572  | 0.512               | 0.576  | 0.575               |     | 0.568               |  |                     |  |       |  |  | 5.9   |
| Benzene                        |  | 1.608               | 1.540  | 1.410               | 1.580  | 1.584               |     | 1.545               |  |                     |  |       |  |  | 5.1   |
| 1,2-Dichloroethane             |  | 0.661               | 0.636  | 0.564               | 0.626  | 0.634               |     | 0.624               |  |                     |  |       |  |  | 5.8   |
| Trichloroethene                |  | 0.355               | 0.345  | 0.311               | 0.344  | 0.346               |     | 0.340               |  |                     |  |       |  |  | 5     |
| 1,2-Dichloropropane            |  | 0.422               | 0.401  | 0.358               | 0.399  | 0.400               |     | 0.396               |  |                     |  |       |  |  | 6     |
| Bromodichloromethane           |  | 0.662               | 0.606  | 0.561               | 0.623  | 0.634               |     | 0.617               |  |                     |  |       |  |  | 6     |
| 4-Methyl-2-Pentanone           |  | 0.813               | 0.802  | 0.713               | 0.780  | 0.751               |     | 0.772               |  |                     |  |       |  |  | 5.3   |
| Toluene                        |  | 1.975               | 1.905  | 1.689               | 1.854  | 1.835               |     | 1.852               |  |                     |  |       |  |  | 5.7   |
| t-1,3-Dichloropropene          |  | 0.676               | 0.663  | 0.618               | 0.700  | 0.702               |     | 0.672               |  |                     |  |       |  |  | 5.1   |

\* 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.



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

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TETR06  
 Lab Code: ACE SDG No.: Q3017  
 Instrument ID: MSVOA\_N Calibration Date(s): 08/05/2025 08/05/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 13:37 15:01  
 GC Column: RXI-624 ID: 0.25 (mm)

|                             |                     |        |        |                     |        |                     |       |       |
|-----------------------------|---------------------|--------|--------|---------------------|--------|---------------------|-------|-------|
| LAB FILE ID:                | RRF005 = VN087452.D |        |        | RRF020 = VN087453.D |        | RRF050 = VN087454.D |       |       |
|                             | RRF100 = VN087455.D |        |        | RRF150 = VN087456.D |        | RRF =               |       |       |
| COMPOUND                    | RRF005              | RRF020 | RRF050 | RRF100              | RRF150 | RRF                 | RRF   | % RSD |
| cis-1,3-Dichloropropene     | 0.687               | 0.664  | 0.629  | 0.696               | 0.704  |                     | 0.676 | 4.5   |
| 1,1,2-Trichloroethane       | 0.385               | 0.375  | 0.344  | 0.386               | 0.388  |                     | 0.375 | 4.9   |
| 2-Hexanone                  | 0.484               | 0.527  | 0.504  | 0.561               | 0.545  |                     | 0.524 | 5.9   |
| Dibromochloromethane        | 0.427               | 0.424  | 0.402  | 0.455               | 0.460  |                     | 0.434 | 5.5   |
| 1,2-Dibromoethane           | 0.401               | 0.400  | 0.364  | 0.414               | 0.413  |                     | 0.399 | 5.1   |
| Tetrachloroethene           | 0.320               | 0.292  | 0.270  | 0.290               | 0.289  |                     | 0.292 | 6.1   |
| Chlorobenzene               | 1.218               | 1.156  | 1.030  | 1.149               | 1.135  |                     | 1.138 | 6     |
| Ethyl Benzene               | 2.154               | 2.115  | 1.892  | 2.094               | 2.064  |                     | 2.064 | 4.9   |
| m/p-Xylenes                 | 0.796               | 0.768  | 0.702  | 0.768               | 0.753  |                     | 0.758 | 4.6   |
| o-Xylene                    | 0.791               | 0.754  | 0.681  | 0.756               | 0.745  |                     | 0.745 | 5.4   |
| Styrene                     | 1.257               | 1.295  | 1.182  | 1.323               | 1.307  |                     | 1.273 | 4.4   |
| Bromoform                   | 0.268               | 0.276  | 0.268  | 0.310               | 0.312  |                     | 0.287 | 7.8   |
| Isopropylbenzene            | 1.938               | 1.936  | 1.729  | 1.947               | 1.916  |                     | 1.893 | 4.9   |
| 1,1,2,2-Tetrachloroethane   | 0.692               | 0.679  | 0.590  | 0.654               | 0.628  |                     | 0.649 | 6.3   |
| 1,3,5-Trimethylbenzene      | 1.705               | 1.661  | 1.495  | 1.646               | 1.599  |                     | 1.621 | 4.9   |
| 1,3-Dichlorobenzene         | 0.874               | 0.853  | 0.777  | 0.847               | 0.828  |                     | 0.836 | 4.4   |
| 1,4-Dichlorobenzene         | 0.884               | 0.870  | 0.790  | 0.858               | 0.835  |                     | 0.847 | 4.4   |
| 1,2-Dichlorobenzene         | 0.812               | 0.819  | 0.750  | 0.814               | 0.794  |                     | 0.798 | 3.6   |
| 1,2-Dibromo-3-Chloropropane | 0.173               | 0.170  | 0.149  | 0.166               | 0.164  |                     | 0.164 | 5.7   |
| 1,2,4-Trichlorobenzene      | 0.495               | 0.478  | 0.435  | 0.486               | 0.490  |                     | 0.477 | 5     |
| 1,2,3-Trichlorobenzene      | 0.495               | 0.478  | 0.435  | 0.486               | 0.490  |                     | 0.477 | 5     |
| 1,2-Dichloroethane-d4       | 2.772               | 2.838  | 2.776  | 2.704               | 2.746  |                     | 2.767 | 1.8   |
| Toluene-d8                  | 1.413               | 1.382  | 1.386  | 1.386               | 1.336  |                     | 1.380 | 2     |
| 4-Bromofluorobenzene        | 0.512               | 0.520  | 0.522  | 0.520               | 0.508  |                     | 0.516 | 1.1   |

\* 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.



Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 624N080525W.M  
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 Last Update : Wed Aug 06 02:01:21 2025  
 Response Via : Initial Calibration

## Calibration Files

5 =VN087452.D 20 =VN087453.D 50 =VN087454.D 100 =VN087455.D 150 =VN087456.D

| Compound |                     | 5              | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|----------|---------------------|----------------|-------|-------|-------|-------|-------|-------|
| -----    |                     |                |       |       |       |       |       |       |
| 1) I     | Bromochloromethane  | -----ISTD----- |       |       |       |       |       |       |
| 2) M     | Dichlorodifluoro... | 1.779          | 2.065 | 1.842 | 2.012 | 2.094 | 1.959 | 7.15  |
| 3) M     | Chloromethane       | 1.994          | 2.165 | 1.805 | 1.983 | 2.101 | 2.010 | 6.82  |
| 4) M     | Vinyl Chloride      | 2.092          | 2.289 | 1.905 | 2.161 | 2.210 | 2.131 | 6.82  |
| 5) M     | Bromomethane        | 1.027          | 1.160 | 1.070 | 1.220 | 1.291 | 1.154 | 9.32  |
| 6) M     | Chloroethane        | 1.413          | 1.441 | 1.211 | 1.381 | 1.427 | 1.374 | 6.83  |
| 7) M     | Trichlorofluorom... | 3.231          | 3.208 | 2.715 | 3.043 | 3.141 | 3.067 | 6.85  |
| 8) T     | Diethyl Ether       | 1.339          | 1.321 | 1.158 | 1.256 | 1.316 | 1.278 | 5.81  |
| 9)       | 1,1,2-Trichlorot... | 1.716          | 1.591 | 1.388 | 1.528 | 1.598 | 1.564 | 7.66  |
| 10) M    | 1,1-Dichloroethene  | 1.704          | 1.730 | 1.440 | 1.616 | 1.725 | 1.643 | 7.46  |
| 11)      | Methyl Iodide       | 0.778          | 1.076 | 1.217 | 1.615 | 1.782 | 1.294 | 31.42 |
| 12)      | Methyl Acetate      | 2.942          | 3.094 | 2.763 | 3.128 | 3.234 | 3.032 | 6.05  |
| 13) M    | Acrolein            | 0.460          | 0.463 | 0.413 | 0.467 | 0.513 | 0.463 | 7.62  |
| 14) M    | Acrylonitrile       | 1.353          | 1.358 | 1.193 | 1.335 | 1.382 | 1.324 | 5.68  |
| 15) M    | Acetone             | 0.421          | 0.418 | 0.335 | 0.356 | 0.361 | 0.378 | 10.28 |
| 16) M    | Carbon Disulfide    | 5.413          | 5.176 | 4.534 | 5.095 | 5.266 | 5.097 | 6.60  |
| 17)      | Allyl chloride      | 3.346          | 3.377 | 3.088 | 3.403 | 3.531 | 3.349 | 4.83  |
| 18) M    | Methylene Chloride  | 2.274          | 2.168 | 1.887 | 2.100 | 2.148 | 2.115 | 6.75  |
| 19) M    | trans-1,2-Dichlo... | 2.081          | 2.014 | 1.729 | 1.927 | 2.019 | 1.954 | 7.02  |
| 20) T    | Diisopropyl ether   | 7.680          | 7.823 | 6.906 | 7.782 | 7.955 | 7.629 | 5.46  |
| 21) M    | 1,1-Dichloroethane  | 3.979          | 4.147 | 3.567 | 3.949 | 4.076 | 3.944 | 5.70  |
| 22) M    | cis-1,2-Dichloro... | 2.477          | 2.499 | 2.149 | 2.403 | 2.493 | 2.404 | 6.14  |
| 23) M    | tert-Butyl Alcohol  | 0.606          | 0.569 | 0.509 | 0.558 | 0.571 | 0.563 | 6.23  |
| 24) M    | Methyl tert-Buty... | 7.611          | 7.656 | 6.765 | 7.529 | 7.874 | 7.487 | 5.65  |
| 25) M    | Chloroform          | 4.236          | 4.223 | 3.738 | 4.105 | 4.280 | 4.116 | 5.37  |
| 26)      | Cyclohexane         | 3.153          | 3.329 | 2.842 | 3.205 | 3.258 | 3.157 | 5.95  |
| 27) s    | 1,2-Dichloroetha... | 2.772          | 2.838 | 2.776 | 2.704 | 2.746 | 2.767 | 1.76  |
|          |                     |                |       |       |       |       |       |       |
| 28) I    | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |
| 29)      | 1,1-Dichloropropene | 0.518          | 0.490 | 0.445 | 0.495 | 0.498 | 0.489 | 5.50  |
| 30) M    | 2-Butanone          | 0.377          | 0.365 | 0.334 | 0.365 | 0.363 | 0.361 | 4.46  |
| 31)      | 2,2-Dichloropropane | 0.672          | 0.638 | 0.576 | 0.636 | 0.632 | 0.631 | 5.48  |
| 32) M    | 1,1,1-Trichloroe... | 0.651          | 0.618 | 0.571 | 0.636 | 0.645 | 0.624 | 5.19  |
| 33) M    | Carbon Tetrachlo... | 0.536          | 0.520 | 0.474 | 0.527 | 0.535 | 0.518 | 4.94  |
| 34) M    | Benzene             | 1.608          | 1.540 | 1.410 | 1.580 | 1.584 | 1.545 | 5.12  |
| 35)      | Methacrylonitrile   | 0.409          | 0.399 | 0.373 | 0.382 | 0.383 | 0.389 | 3.77  |
| 36) M    | 1,2-Dichloroethane  | 0.661          | 0.636 | 0.564 | 0.626 | 0.634 | 0.624 | 5.77  |
| 37) M    | Trichloroethene     | 0.355          | 0.345 | 0.311 | 0.344 | 0.346 | 0.340 | 4.97  |
| 38)      | Methylcyclohexane   | 0.603          | 0.572 | 0.512 | 0.576 | 0.575 | 0.568 | 5.94  |
| 39) M    | 1,2-Dichloropropane | 0.422          | 0.401 | 0.358 | 0.399 | 0.400 | 0.396 | 5.95  |
| 40)      | Dibromomethane      | 0.317          | 0.300 | 0.269 | 0.298 | 0.302 | 0.297 | 5.83  |
| 41) M    | Bromodichloromet... | 0.662          | 0.606 | 0.561 | 0.623 | 0.634 | 0.617 | 6.04  |
| 42) M    | Vinyl Acetate       | 1.222          | 1.212 | 1.088 | 1.205 | 1.212 | 1.188 | 4.74  |
| 43)      | Ethyl Acetate       | 0.745          | 0.699 | 0.626 | 0.699 | 0.716 | 0.697 | 6.31  |
| 44)      | Isopropyl Acetate   | 1.228          | 1.191 | 1.082 | 1.201 | 1.204 | 1.181 | 4.82  |
| 45) T    | 1,4-Dioxane         | 0.008          | 0.008 | 0.007 | 0.007 | 0.008 | 0.008 | 4.20  |
| 46)      | Methyl methacrylate | 0.576          | 0.558 | 0.503 | 0.565 | 0.585 | 0.558 | 5.76  |
| 47)      | n-amyl Acetate      | 0.537          | 0.566 | 0.572 | 0.765 | 0.823 | 0.652 | 20.12 |
| 48) M    | t-1,3-Dichloropr... | 0.676          | 0.663 | 0.618 | 0.700 | 0.702 | 0.672 | 5.10  |
| 49) T    | cis-1,3-Dichloro... | 0.687          | 0.664 | 0.629 | 0.696 | 0.704 | 0.676 | 4.48  |
| 50) M    | 1,1,2-Trichloroe... | 0.385          | 0.375 | 0.344 | 0.386 | 0.388 | 0.375 | 4.88  |
| 51)      | Ethyl methacrylate  | 0.599          | 0.652 | 0.624 | 0.714 | 0.716 | 0.661 | 8.02  |
| 52)      | 1,3-Dichloropropane | 0.699          | 0.678 | 0.621 | 0.688 | 0.696 | 0.676 | 4.70  |
| 53) M    | Dibromochloromet... | 0.427          | 0.424 | 0.402 | 0.455 | 0.460 | 0.434 | 5.49  |
| 54) M    | 1,2-Dibromoethane   | 0.401          | 0.400 | 0.364 | 0.414 | 0.413 | 0.399 | 5.12  |
| 55) M    | 2-Chloroethyl vi... | 0.373          | 0.349 | 0.321 | 0.345 | 0.353 | 0.348 | 5.40  |
| 56) M    | Bromoform           | 0.268          | 0.276 | 0.268 | 0.310 | 0.312 | 0.287 | 7.82  |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 624N080525W.M

|       |                     | -----ISTD----- |       |       |       |       |       |       |      |
|-------|---------------------|----------------|-------|-------|-------|-------|-------|-------|------|
| 57) I | Chlorobenzene-d5    |                |       |       |       |       |       |       |      |
| 58) M | 4-Methyl-2-Penta... | 0.813          | 0.802 | 0.713 | 0.780 | 0.751 | 0.772 |       | 5.27 |
| 59) M | 2-Hexanone          | 0.484          | 0.527 | 0.504 | 0.561 | 0.545 | 0.524 |       | 5.95 |
| 60) S | 4-Bromofluoroben... | 0.512          | 0.520 | 0.522 | 0.520 | 0.508 | 0.516 |       | 1.14 |
| 61) M | Tetrachloroethene   | 0.320          | 0.292 | 0.270 | 0.290 | 0.289 | 0.292 |       | 6.10 |
| 62) M | Toluene             | 1.975          | 1.905 | 1.689 | 1.854 | 1.835 | 1.852 |       | 5.70 |
| 63) S | Toluene-d8          | 1.413          | 1.382 | 1.386 | 1.386 | 1.336 | 1.380 |       | 2.02 |
| 64) M | Chlorobenzene       | 1.218          | 1.156 | 1.030 | 1.149 | 1.135 | 1.138 |       | 5.97 |
| 65)   | 1,1,1,2-Tetrachl... | 0.431          | 0.404 | 0.364 | 0.405 | 0.396 | 0.400 |       | 5.99 |
| 66) M | Ethyl Benzene       | 2.154          | 2.115 | 1.892 | 2.094 | 2.064 | 2.064 |       | 4.92 |
| 67) M | m/p-Xylenes         | 0.796          | 0.768 | 0.702 | 0.768 | 0.753 | 0.758 |       | 4.55 |
| 68) M | o-Xylene            | 0.791          | 0.754 | 0.681 | 0.756 | 0.745 | 0.745 |       | 5.38 |
| 69) M | Styrene             | 1.257          | 1.295 | 1.182 | 1.323 | 1.307 | 1.273 |       | 4.43 |
| 70)   | Isopropylbenzene    | 1.938          | 1.936 | 1.729 | 1.947 | 1.916 | 1.893 |       | 4.88 |
| 71) M | 1,1,2,2-Tetrachl... | 0.692          | 0.679 | 0.590 | 0.654 | 0.628 | 0.649 |       | 6.28 |
| 72)   | 1,2,3-Trichlorop... | 0.631          | 0.567 | 0.582 | 0.629 | 0.613 | 0.604 |       | 4.77 |
| 73)   | Bromobenzene        | 0.468          | 0.440 | 0.398 | 0.451 | 0.438 | 0.439 |       | 5.88 |
| 74)   | n-propylbenzene     | 2.495          | 2.410 | 2.165 | 2.415 | 2.338 | 2.365 |       | 5.27 |
| 75)   | 2-Chlorotoluene     | 1.570          | 1.484 | 1.328 | 1.466 | 1.424 | 1.455 |       | 6.07 |
| 76)   | 1,3,5-Trimethylb... | 1.705          | 1.661 | 1.495 | 1.646 | 1.599 | 1.621 |       | 4.93 |
| 77)   | t-1,4-Dichloro-2... | 0.192          | 0.216 | 0.220 | 0.261 | 0.256 | 0.229 | 12.71 |      |
| 78)   | 4-Chlorotoluene     | 1.549          | 1.474 | 1.362 | 1.513 | 1.472 | 1.474 |       | 4.77 |
| 79)   | tert-butylbenzene   | 1.443          | 1.398 | 1.266 | 1.395 | 1.332 | 1.367 |       | 5.03 |
| 80)   | 1,2,4-Trimethylb... | 1.672          | 1.639 | 1.511 | 1.667 | 1.611 | 1.620 |       | 4.05 |
| 81)   | sec-Butylbenzene    | 2.093          | 2.047 | 1.849 | 2.015 | 1.944 | 1.990 |       | 4.80 |
| 82)   | p-Isopropyltoluene  | 1.761          | 1.692 | 1.528 | 1.670 | 1.610 | 1.652 |       | 5.32 |
| 83) M | 1,3-Dichlorobenzene | 0.874          | 0.853 | 0.777 | 0.847 | 0.828 | 0.836 |       | 4.37 |
| 84) M | 1,4-Dichlorobenzene | 0.884          | 0.870 | 0.790 | 0.858 | 0.835 | 0.847 |       | 4.35 |
| 85)   | n-Butylbenzene      | 1.647          | 1.662 | 1.513 | 1.658 | 1.602 | 1.616 |       | 3.89 |
| 86) T | Hexachloroethane    | 0.327          | 0.326 | 0.300 | 0.334 | 0.327 | 0.323 |       | 4.07 |
| 87) M | 1,2-Dichlorobenzene | 0.812          | 0.819 | 0.750 | 0.814 | 0.794 | 0.798 |       | 3.56 |
| 88)   | 1,2-Dibromo-3-Ch... | 0.173          | 0.170 | 0.149 | 0.166 | 0.164 | 0.164 |       | 5.70 |
| 89)   | 1,2,4-Trichlorob... | 0.495          | 0.478 | 0.435 | 0.486 | 0.490 | 0.477 |       | 5.05 |
| 90)   | Hexachlorobutadiene | 0.222          | 0.189 | 0.165 | 0.177 | 0.174 | 0.185 | 11.79 |      |
| 91) M | Naphthalene         | 1.807          | 1.840 | 1.675 | 1.885 | 1.883 | 1.818 |       | 4.73 |
| 92)   | 1,2,3-Trichlorob... | 0.495          | 0.478 | 0.435 | 0.486 | 0.490 | 0.477 |       | 5.05 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087452.D  
 Acq On : 05 Aug 2025 13:37  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:26:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 66791               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 367765              | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 324158              | 30.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 185120              | 30.050 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.167% |        |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 166050              | 29.766 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 99.233%  |        |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 457922              | 30.702 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 102.333% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 19809               | 4.543  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 22193               | 4.960  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.542          | 62   | 23292               | 4.908  | ug/l   | 93       |
| 5) Bromomethane              | 2.977          | 94   | 11433               | 4.451  | ug/l   | 96       |
| 6) Chloroethane              | 3.136          | 64   | 15730               | 5.141  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 35964               | 5.266  | ug/l # | 81       |
| 8) Diethyl Ether             | 3.965          | 74   | 14911               | 5.241  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 19105               | 5.486  | ug/l   | 63       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 18969               | 5.185  | ug/l   | 96       |
| 11) Methyl Iodide            | 4.583          | 142  | 8659m               | 3.021  | ug/l   |          |
| 12) Methyl Acetate           | 5.024          | 43   | 32749               | 4.851  | ug/l # | 91       |
| 13) Acrolein                 | 4.183          | 56   | 25602               | 24.838 | ug/l   | 92       |
| 14) Acrylonitrile            | 5.706          | 53   | 75304               | 25.546 | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 23455               | 27.848 | ug/l   | 88       |
| 16) Carbon Disulfide         | 4.706          | 76   | 60257               | 5.310  | ug/l   | 100      |
| 17) Allyl chloride           | 5.018          | 41   | 37245               | 4.995  | ug/l   | 91       |
| 18) Methylene Chloride       | 5.265          | 84   | 25316               | 5.377  | ug/l   | 87       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 23167m              | 5.326  | ug/l   |          |
| 20) Diisopropyl ether        | 6.659          | 45   | 85498               | 5.036  | ug/l # | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 44299               | 5.045  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.465          | 96   | 27569               | 5.151  | ug/l # | 88       |
| 23) tert-Butyl Alcohol       | 5.524          | 59   | 33736               | 26.933 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 84726               | 5.083  | ug/l # | 69       |
| 25) Chloroform               | 7.947          | 83   | 47159               | 5.146  | ug/l   | 98       |
| 26) Cyclohexane              | 8.241          | 56   | 35104               | 4.994  | ug/l # | 93       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 31744               | 5.292  | ug/l   | 92       |
| 30) 2-Butanone               | 7.471          | 43   | 115688              | 26.165 | ug/l # | 83       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 41219               | 5.328  | ug/l # | 61       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 39911               | 5.217  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 32877               | 5.173  | ug/l   | 96       |
| 34) Benzene                  | 8.582          | 78   | 98586               | 5.207  | ug/l # | 81       |
| 35) Methacrylonitrile        | 7.771          | 41   | 25099               | 5.260  | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.647          | 62   | 40495               | 5.291  | ug/l   | 97       |
| 37) Trichloroethene          | 9.335          | 130  | 21742               | 5.213  | ug/l   | 92       |
| 38) Methylcyclohexane        | 9.577          | 83   | 36974               | 5.313  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 25889               | 5.333  | ug/l   | 91       |
| 40) Dibromomethane           | 9.688          | 93   | 19402               | 5.327  | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.871          | 83   | 40582               | 5.362  | ug/l # | 95       |
| 42) Vinyl Acetate            | 6.594          | 43   | 374548              | 25.723 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087452.D  
 Acq On : 05 Aug 2025 13:37  
 Operator : JC\MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:26:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 45639m   | 5.423   | ug/l   |          |
| 44) Isopropyl Acetate         | 8.677  | 43   | 75250    | 5.197   | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 9597     | 103.972 | ug/l # | 85       |
| 46) Methyl methacrylate       | 9.665  | 41   | 35322    | 5.168   | ug/l   | 98       |
| 47) n-amyl Acetate            | 12.682 | 43   | 32939m   | 4.524   | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 41412    | 5.029   | ug/l   | 95       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 42124    | 5.083   | ug/l # | 94       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 23578    | 5.123   | ug/l   | 93       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 36705    | 4.529   | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 42828    | 5.166   | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.341 | 129  | 26196    | 4.929   | ug/l   | 95       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 24555    | 5.026   | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 114298   | 26.788  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 16434    | 4.675   | ug/l # | 78       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 219603   | 26.335  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.182 | 43   | 130616   | 23.053  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 17278    | 5.471   | ug/l   | 92       |
| 62) Toluene                   | 10.612 | 91   | 106690   | 5.333   | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 65821    | 5.354   | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 23260    | 5.381   | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.947 | 91   | 116379   | 5.219   | ug/l   | 97       |
| 67) m/p-Xylenes               | 12.053 | 106  | 85967    | 10.503  | ug/l   | 96       |
| 68) o-Xylene                  | 12.376 | 106  | 42724    | 5.306   | ug/l   | 95       |
| 69) Styrene                   | 12.394 | 104  | 67893    | 4.938   | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 104723   | 5.119   | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 37401    | 5.336   | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 34102m   | 4.733   | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 25284    | 5.331   | ug/l   | 94       |
| 74) n-propylbenzene           | 13.018 | 91   | 134786   | 5.275   | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 84827    | 5.397   | ug/l   | 95       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 92128    | 5.259   | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 10355    | 4.189   | ug/l   | 79       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 83697    | 5.255   | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 77933    | 5.277   | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 90309    | 5.159   | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 113073   | 5.259   | ug/l   | 97       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 95127    | 5.329   | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.717 | 146  | 47197    | 5.226   | ug/l   | 96       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 47756    | 5.216   | ug/l   | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 89004    | 5.096   | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 17680    | 5.072   | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 43857    | 5.087   | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 9336     | 5.257   | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 26729    | 5.188   | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 11972    | 5.976   | ug/l   | 80       |
| 91) Naphthalene               | 15.617 | 128  | 97646    | 4.971   | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 26729    | 5.188   | ug/l   | 98       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087452.D  
 Acq On : 05 Aug 2025 13:37  
 Operator : JC\MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDIC005

## Manual Integrations

## APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025

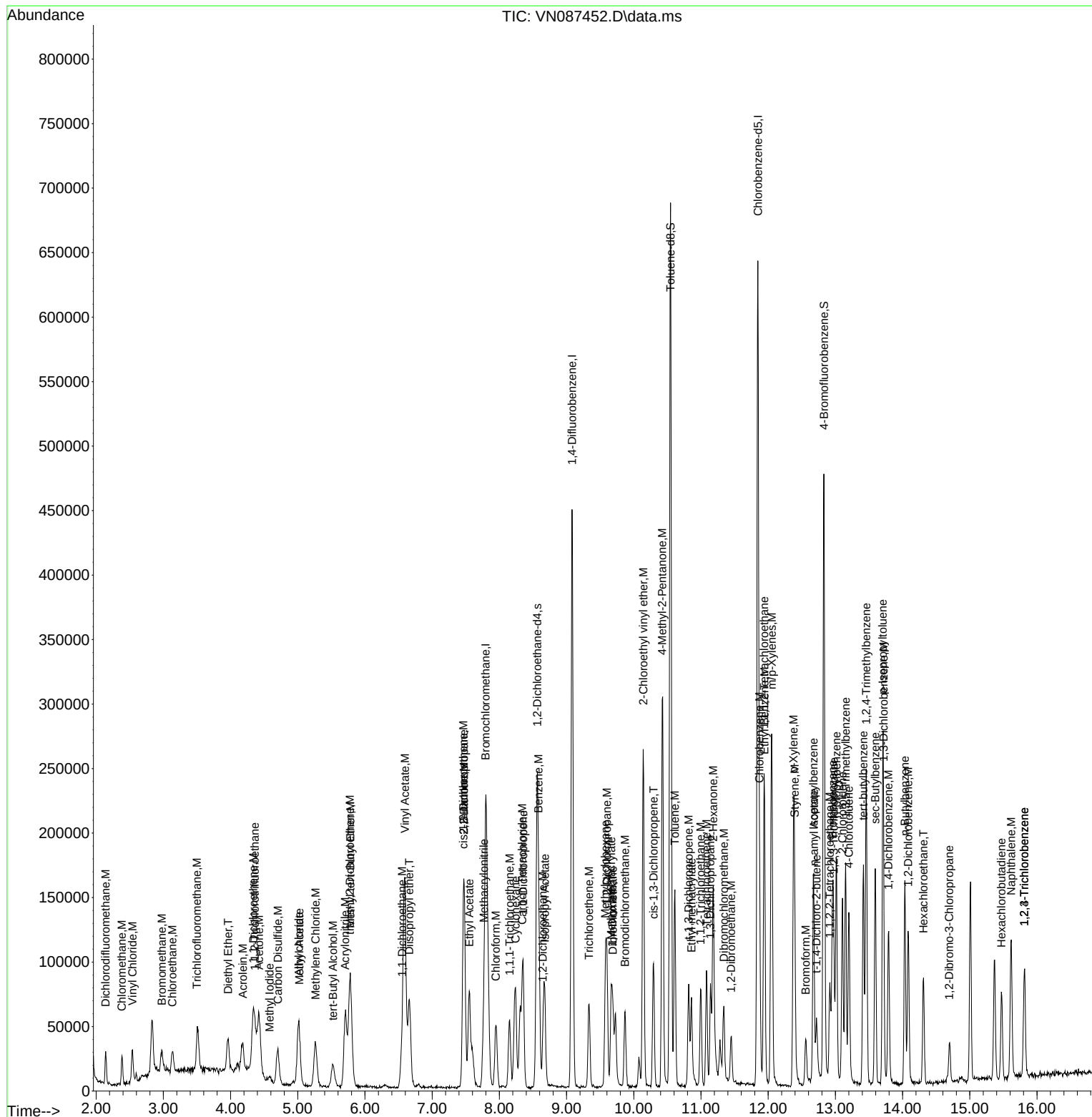
Quant Time: Aug 06 01:26:38 2025

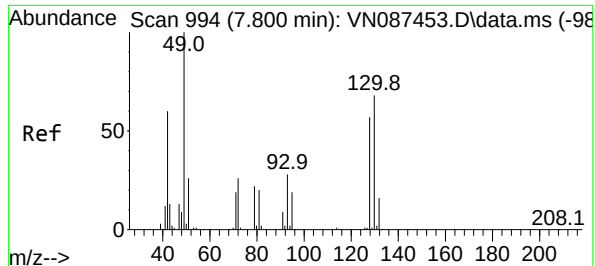
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

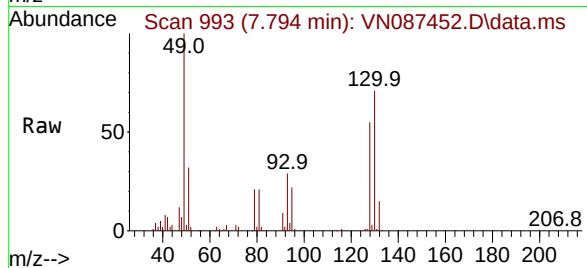
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

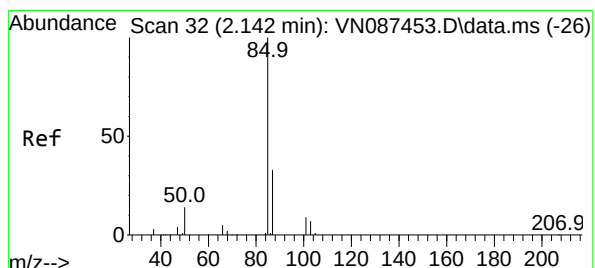
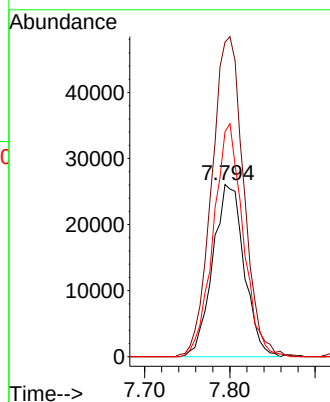
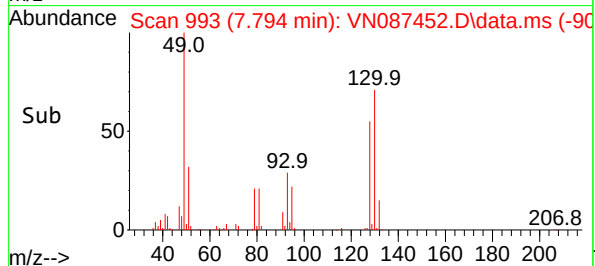
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion:128 Resp: 6679  
Ion Ratio Lower Upper  
128 100  
49 189.1 0.0 494.8  
130 128.0 0.0 321.5

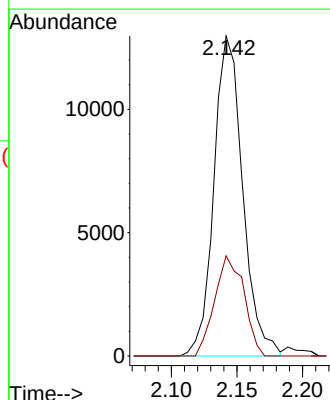
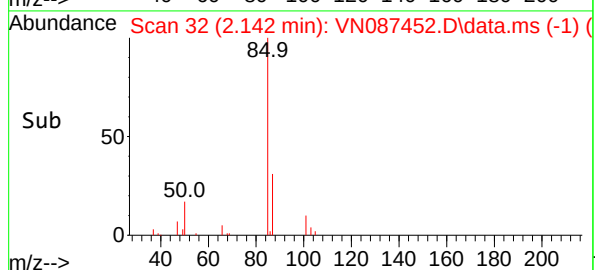
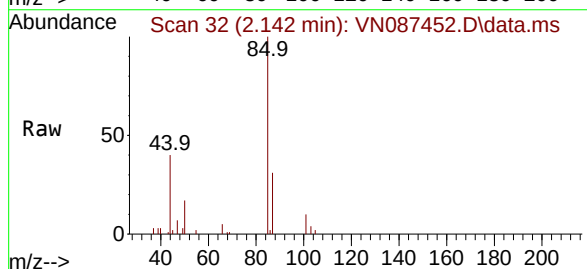
Manual Integrations  
APPROVED

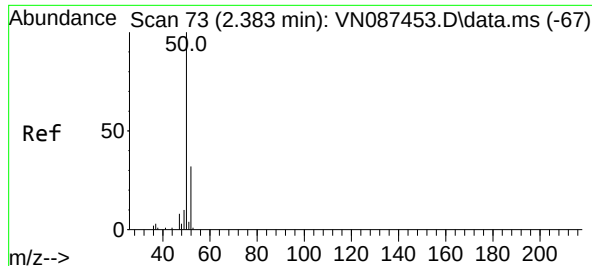
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#2  
Dichlorodifluoromethane  
Concen: 4.543 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 85 Resp: 19809  
Ion Ratio Lower Upper  
85 100  
87 31.3 16.4 49.2





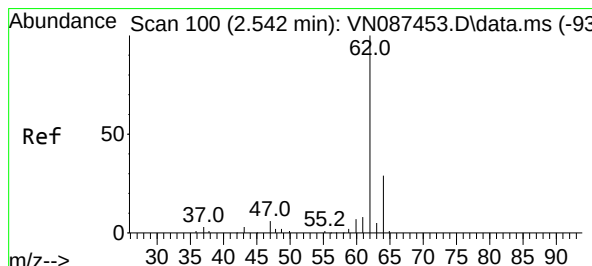
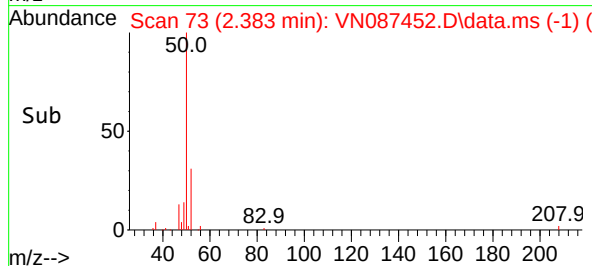
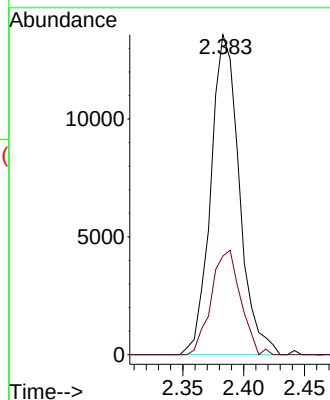
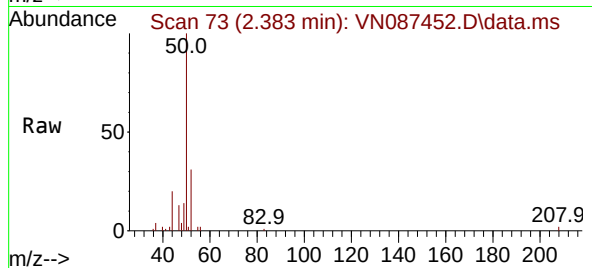
#3  
Chloromethane  
Concen: 4.960 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 50 Resp: 2219  
Ion Ratio Lower Upper  
50 100  
52 30.8 25.8 38.6

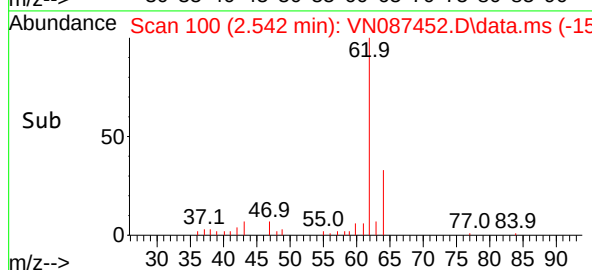
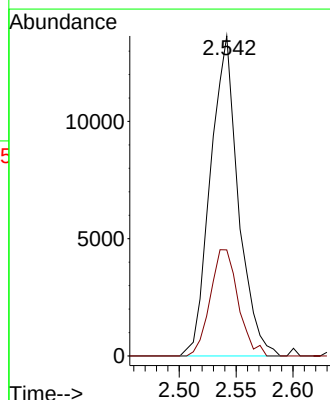
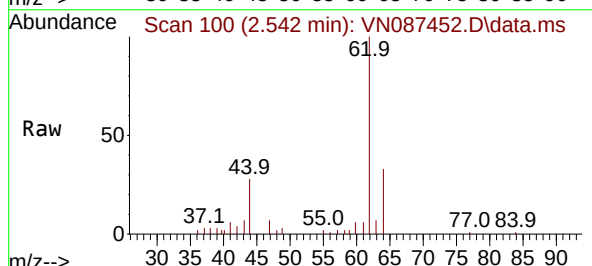
Manual Integrations  
APPROVED

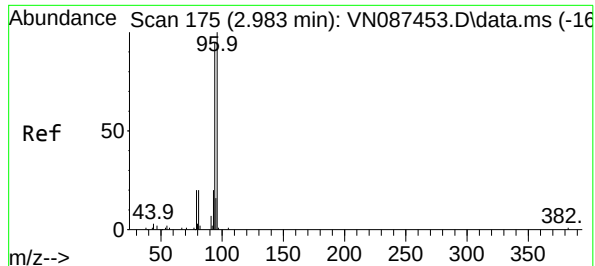
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#4  
Vinyl Chloride  
Concen: 4.908 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 62 Resp: 23292  
Ion Ratio Lower Upper  
62 100  
64 33.2 23.4 35.2





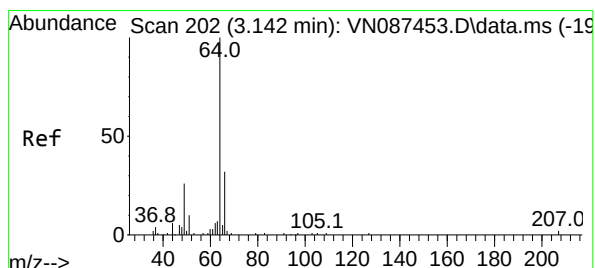
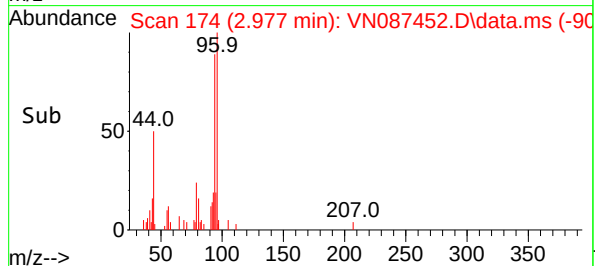
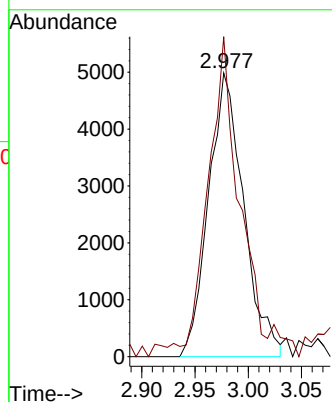
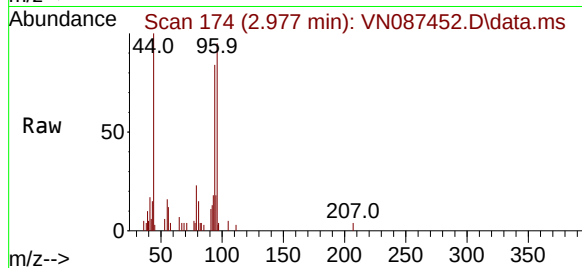
#5  
Bromomethane  
Concen: 4.451 ug/l  
RT: 2.977 min Scan# 1143  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 94 Resp: 1143  
Ion Ratio Lower Upper  
94 100  
96 109.2 84.2 126.4

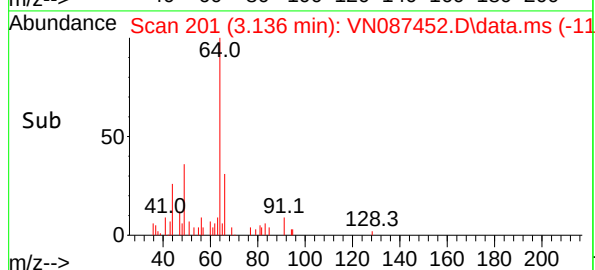
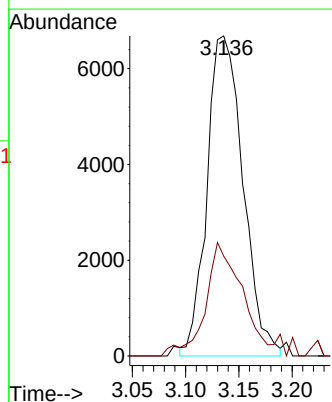
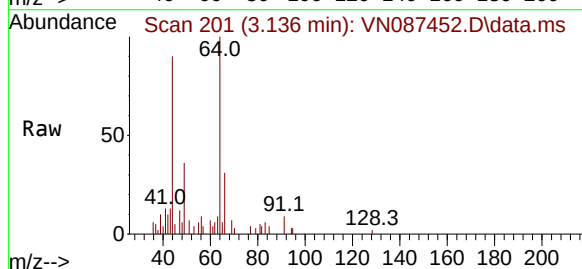
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

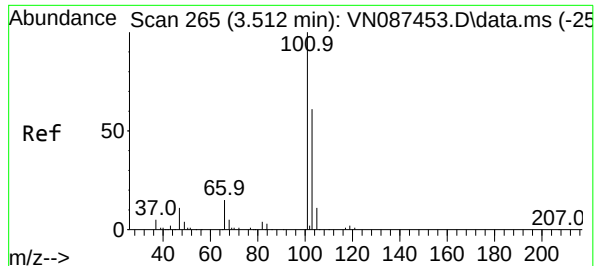


#6  
Chloroethane  
Concen: 5.141 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 64 Resp: 15730  
Ion Ratio Lower Upper  
64 100  
66 29.2 25.4 38.0

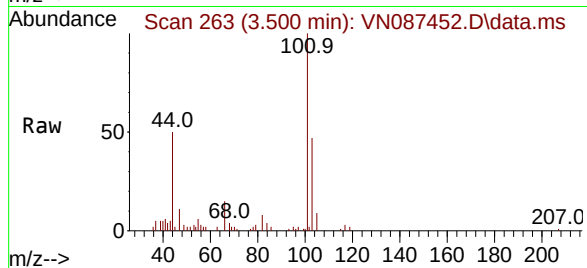






#7  
Trichlorofluoromethane  
Concen: 5.266 ug/l  
RT: 3.500 min Scan# 20  
Delta R.T. -0.012 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

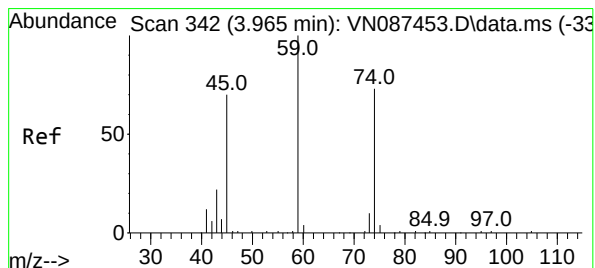
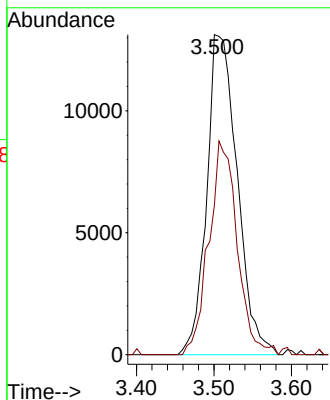
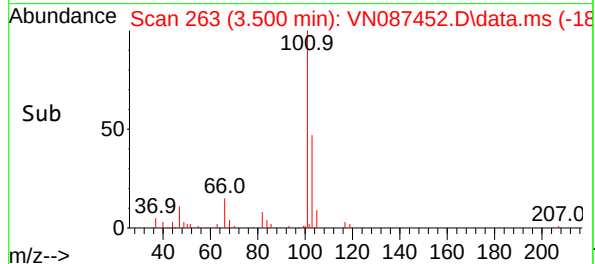
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 101 Resp: 35964  
Ion Ratio Lower Upper  
101 100  
103 46.7 49.2 73.8

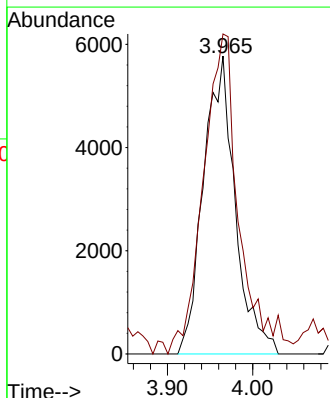
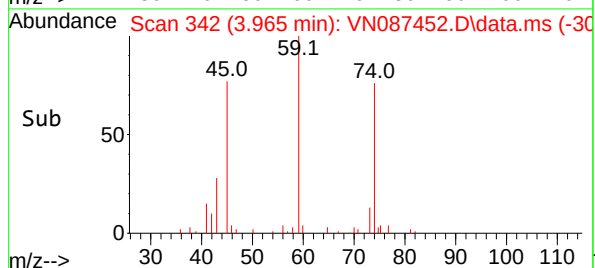
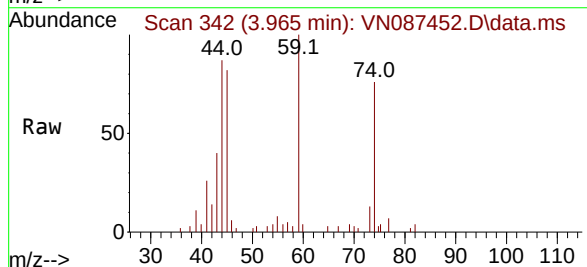
Manual Integrations  
APPROVED

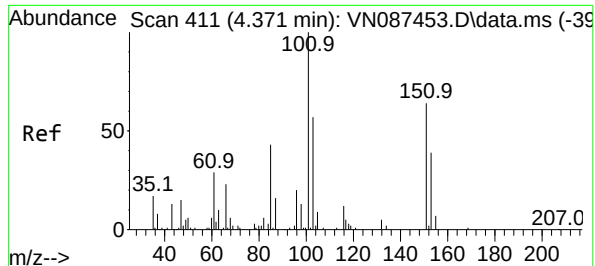
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 5.241 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 74 Resp: 14911  
Ion Ratio Lower Upper  
74 100  
45 105.9 20.1 180.9





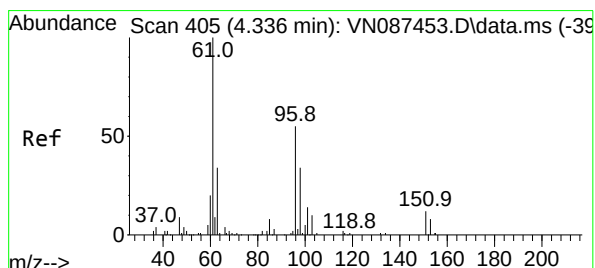
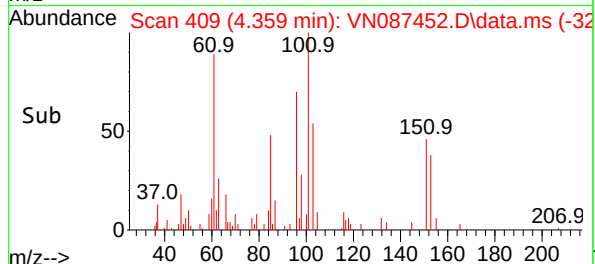
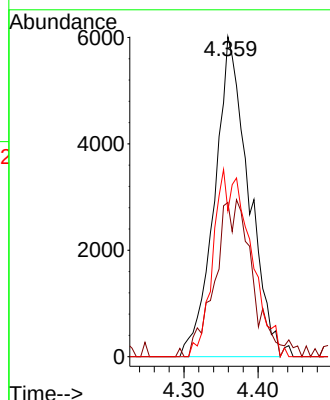
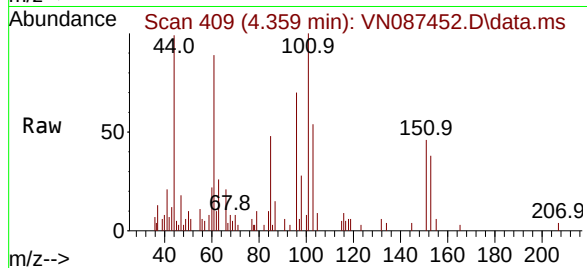
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.486 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. -0.012 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 101 Resp: 1910  
Ion Ratio Lower Upper  
101 100  
85 24.4 0.0 57.0  
151 27.5 0.0 134.2

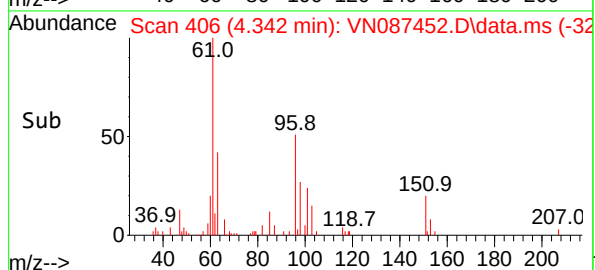
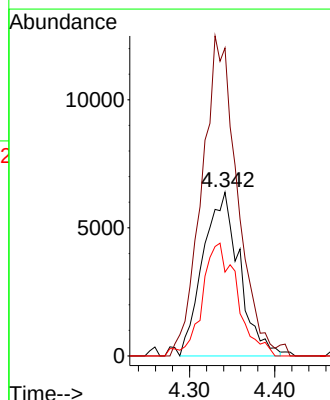
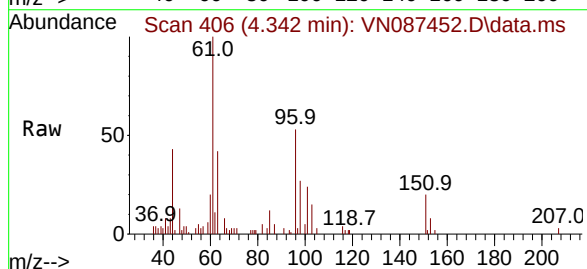
Manual Integrations  
APPROVED

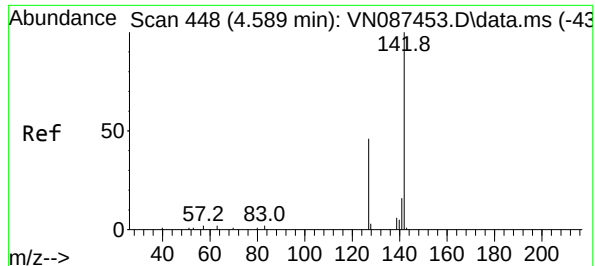
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#10  
1,1-Dichloroethene  
Concen: 5.185 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 96 Resp: 18969  
Ion Ratio Lower Upper  
96 100  
61 181.6 144.2 216.4  
98 51.2 49.7 74.5





#11

Methyl Iodide

Concen: 3.021 ug/l m

RT: 4.583 min Scan# 44

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

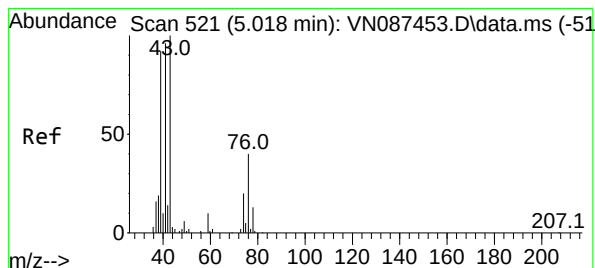
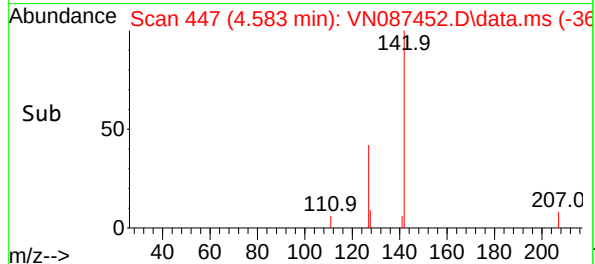
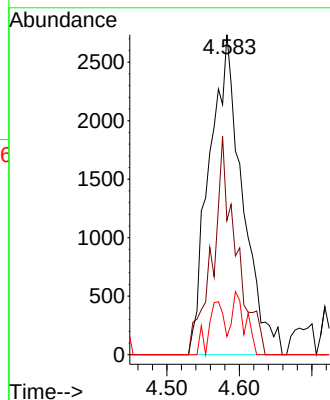
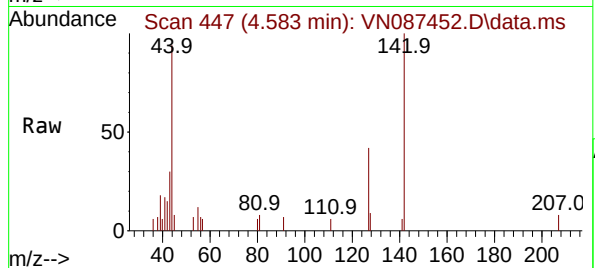
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 865   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 42.0  | 22.9  | 68.7  |
| 141      | 5.7   | 7.7   | 23.1  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 4.851 ug/l

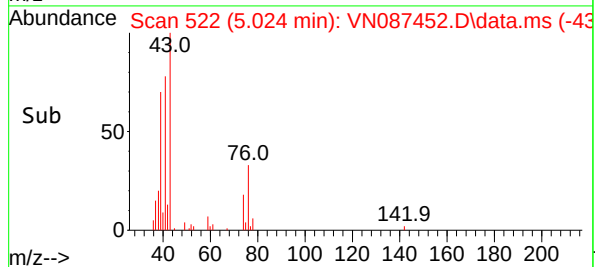
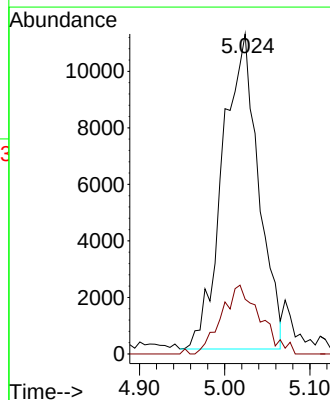
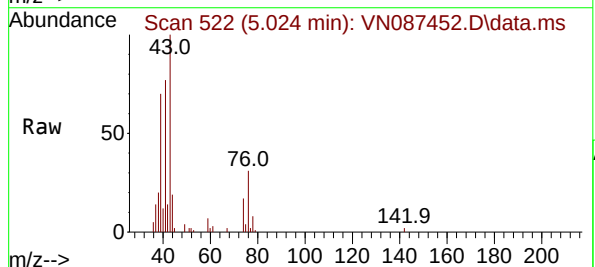
RT: 5.024 min Scan# 522

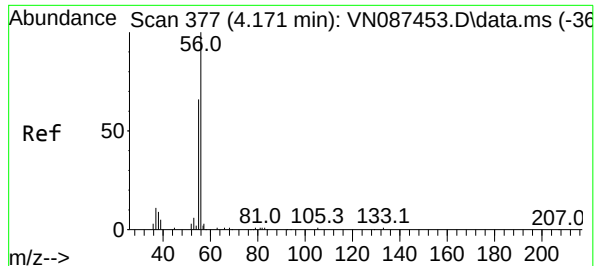
Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 32749 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 74       | 15.8  | 16.0  | 24.0  |





#13

Acrolein

Concen: 24.838 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 2560

Ion Ratio Lower Upper

56 100

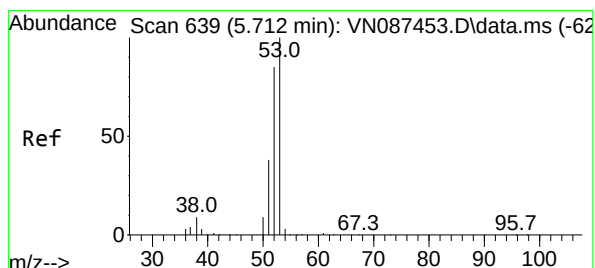
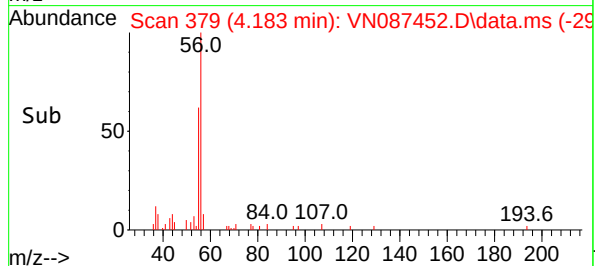
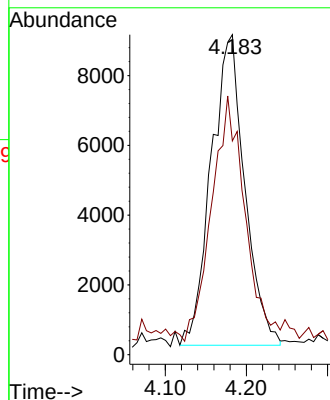
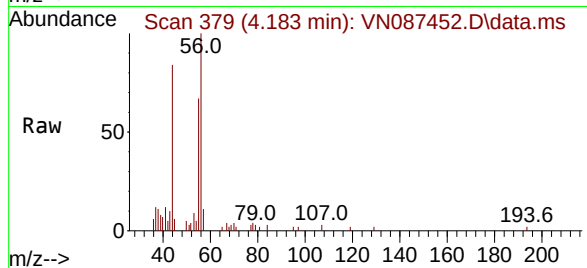
55 78.3 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 25.546 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

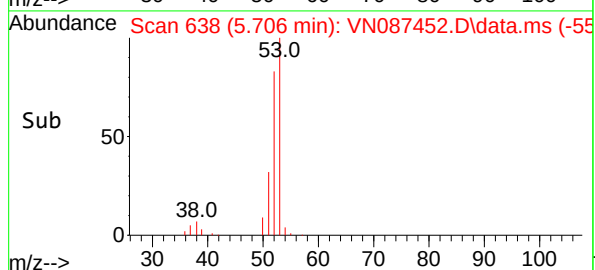
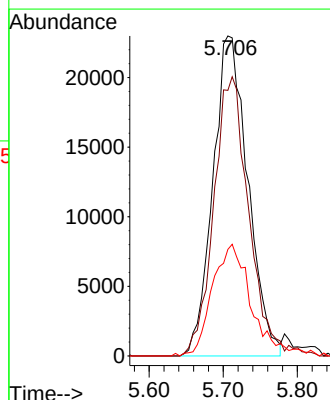
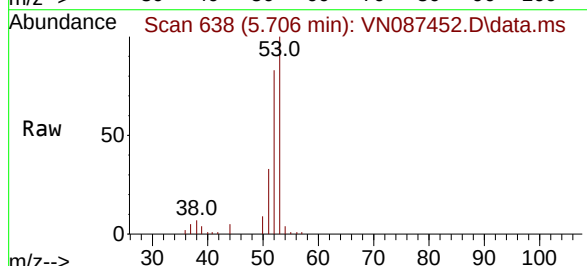
Tgt Ion: 53 Resp: 75304

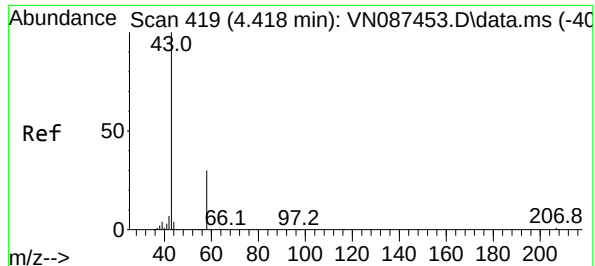
Ion Ratio Lower Upper

53 100

52 86.2 42.4 127.2

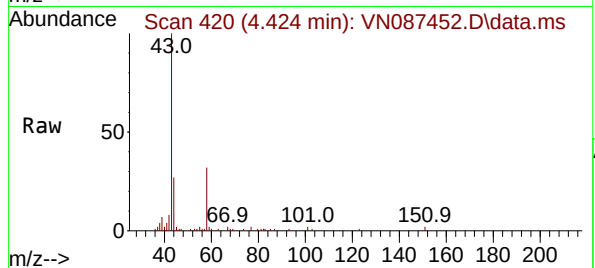
51 37.1 18.5 55.5





#15  
Acetone  
Concen: 27.848 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

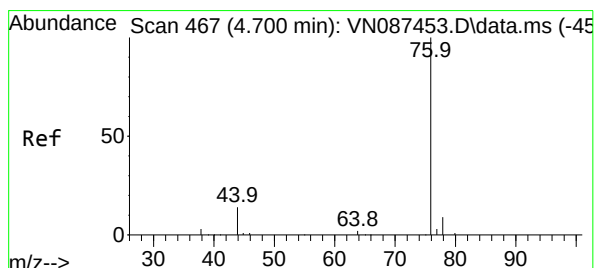
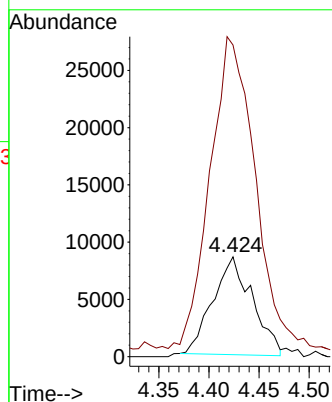
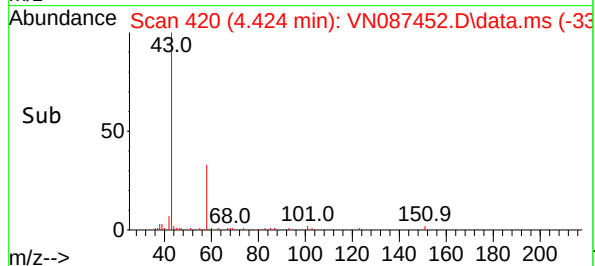
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion: 58 Resp: 2345  
Ion Ratio Lower Upper  
58 100  
43 309.8 268.9 403.3

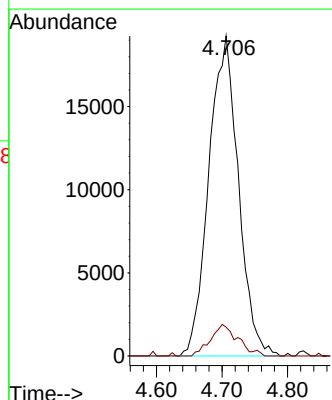
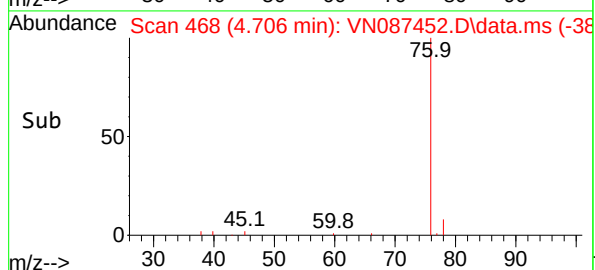
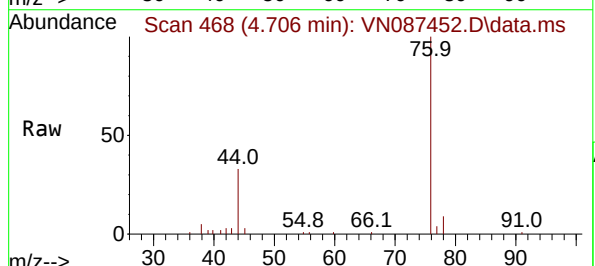
Manual Integrations  
APPROVED

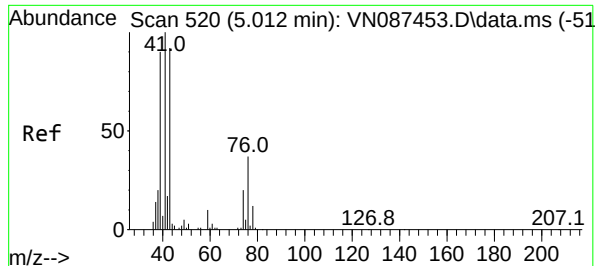
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#16  
Carbon Disulfide  
Concen: 5.310 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 76 Resp: 60257  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7





#17

Allyl chloride

Concen: 4.995 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

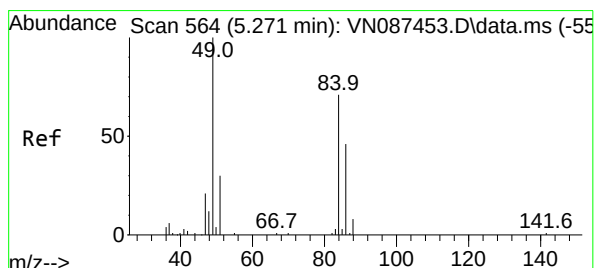
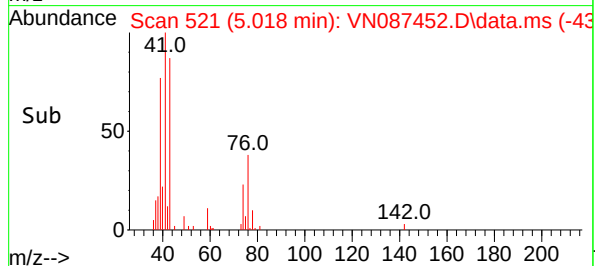
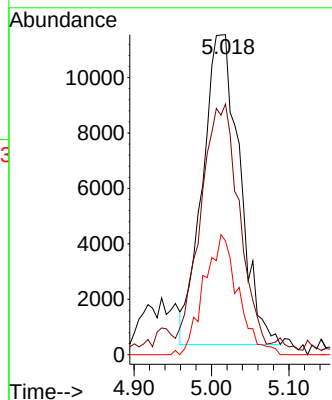
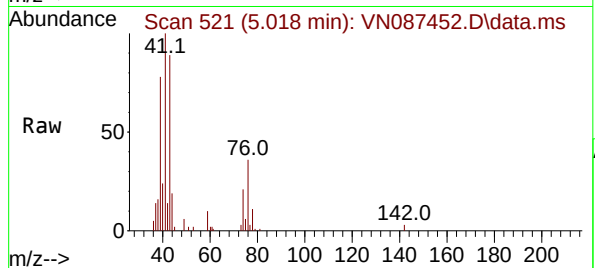
VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 3724  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 75.5  | 42.4  | 127.2 |
| 76       | 36.7  | 16.9  | 50.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 5.377 ug/l

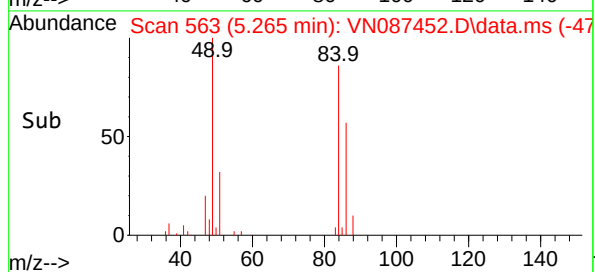
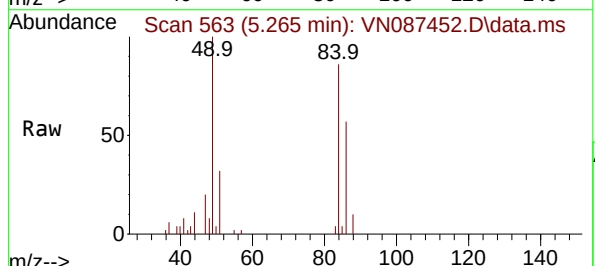
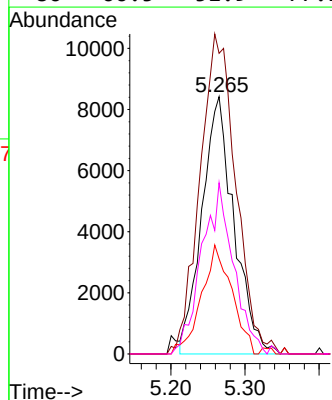
RT: 5.265 min Scan# 563

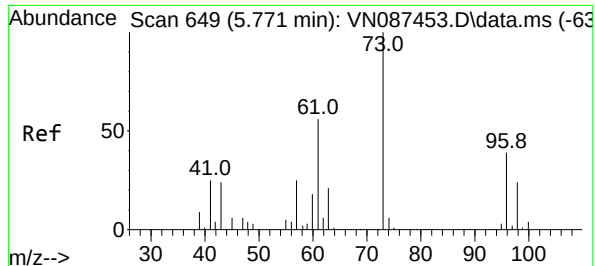
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 25316 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 116.9 | 112.9 | 169.3 |
| 51       | 37.0  | 33.8  | 50.8  |
| 86       | 66.5  | 51.9  | 77.9  |





#19

trans-1,2-Dichloroethene

Concen: 5.326 ug/l m

RT: 5.777 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 2316

Ion Ratio Lower Upper

96 100

61 167.6 114.2 171.4

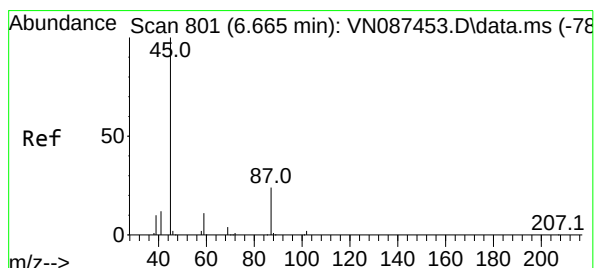
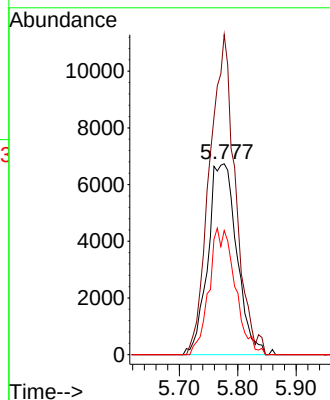
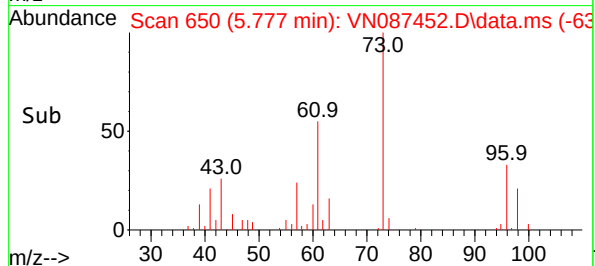
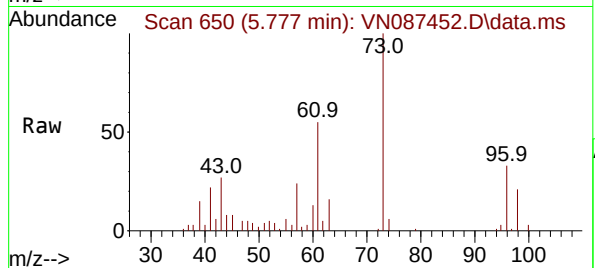
98 65.0 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 5.036 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion: 45 Resp: 85498

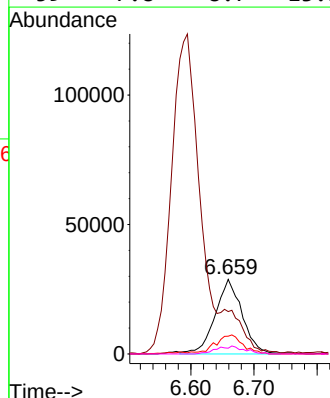
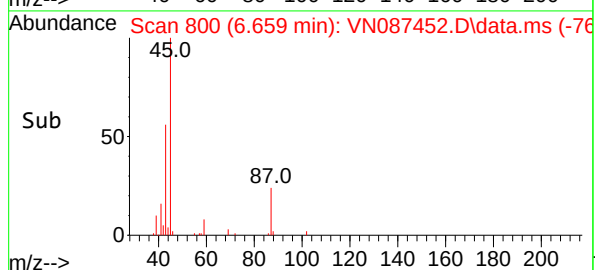
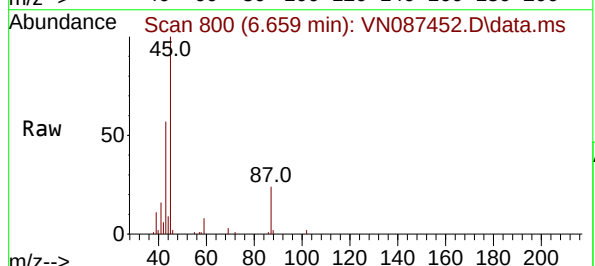
Ion Ratio Lower Upper

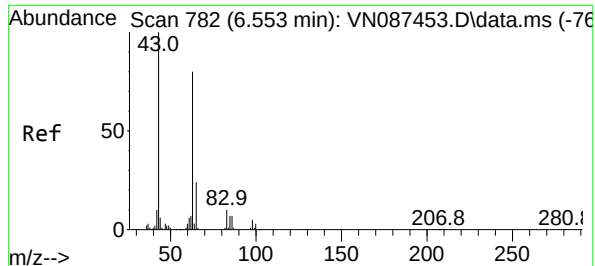
45 100

43 56.1 44.7 67.1

87 24.1 20.2 30.2

59 7.8 8.7 13.1#





#21

1,1-Dichloroethane

Concen: 5.045 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 44299

Ion Ratio Lower Upper

63 100

98 6.4 3.0 9.0

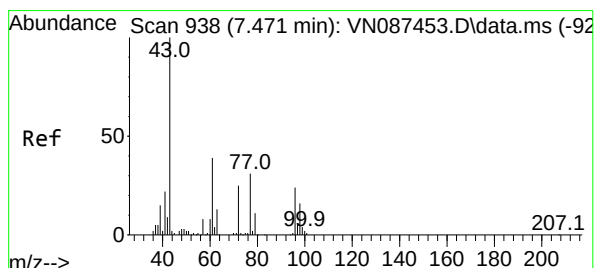
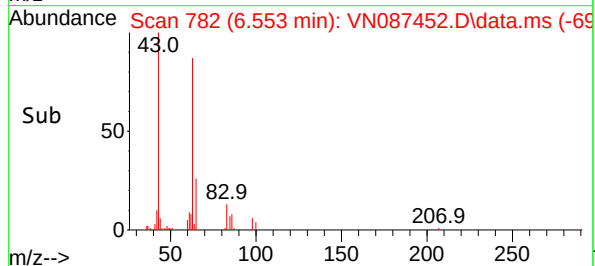
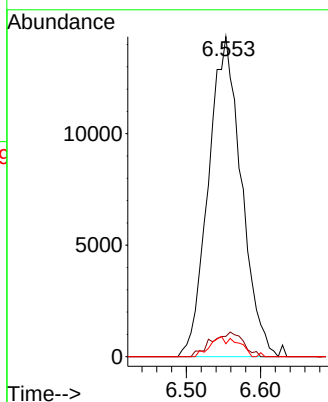
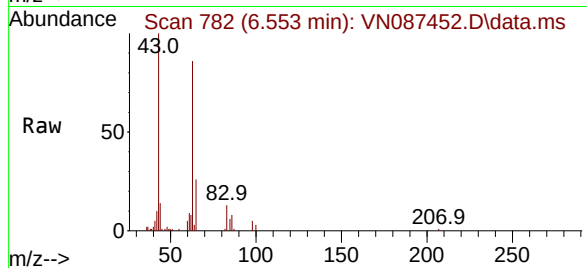
100 4.1 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 5.151 ug/l

RT: 7.465 min Scan# 937

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

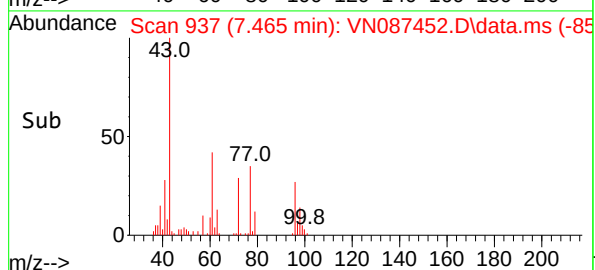
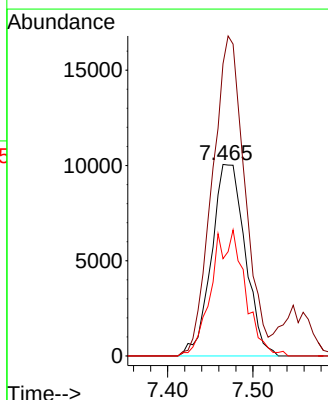
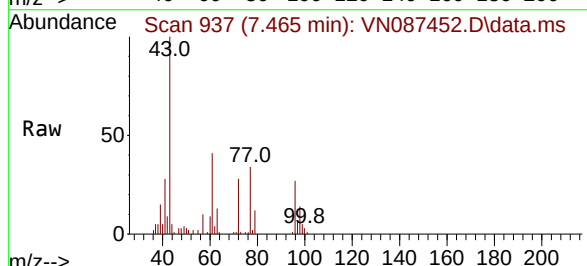
Tgt Ion: 96 Resp: 27569

Ion Ratio Lower Upper

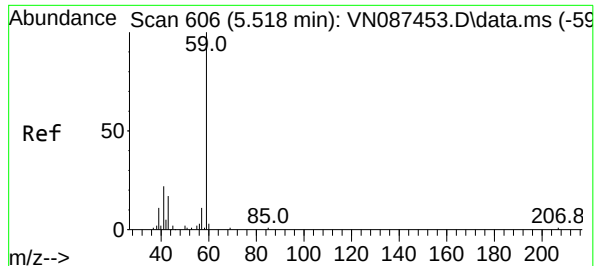
96 100

61 161.4 126.6 190.0

98 36.7 50.9 76.3#







#23

tert-Butyl Alcohol

Concen: 26.933 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 33730

Ion Ratio Lower Upper

59 100

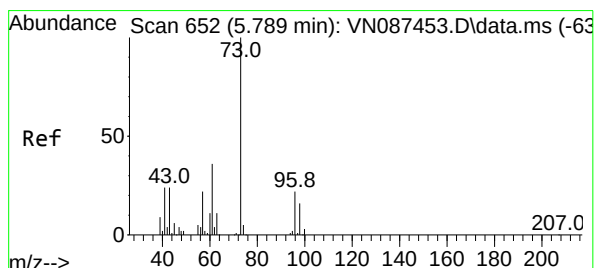
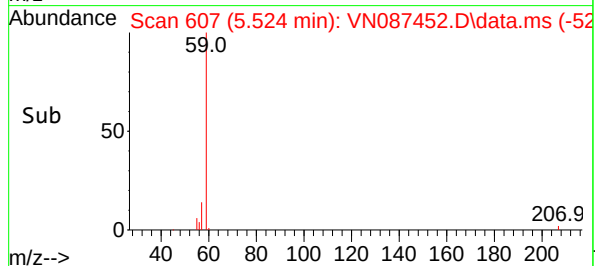
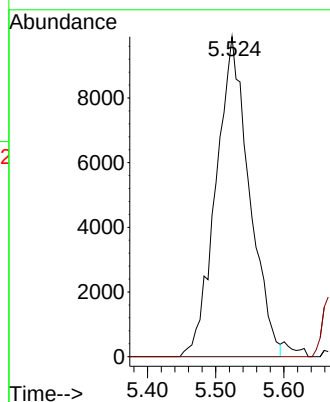
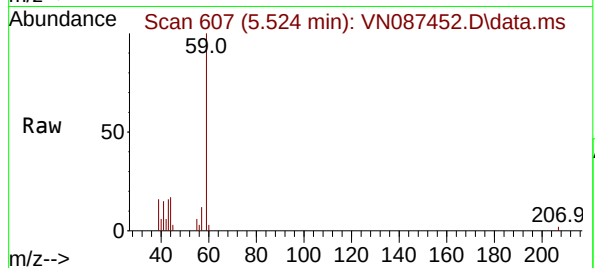
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 5.083 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN087452.D

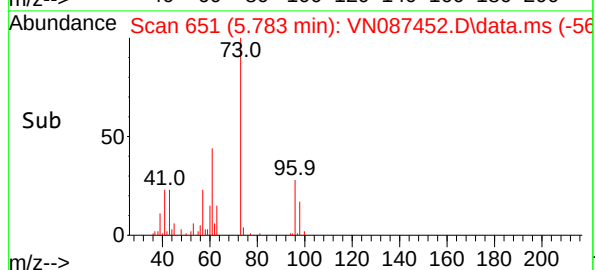
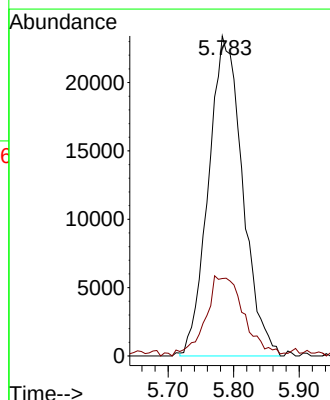
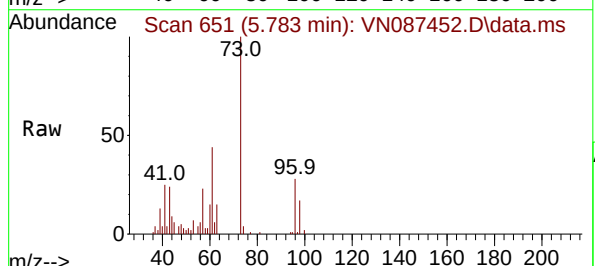
Acq: 05 Aug 2025 13:37

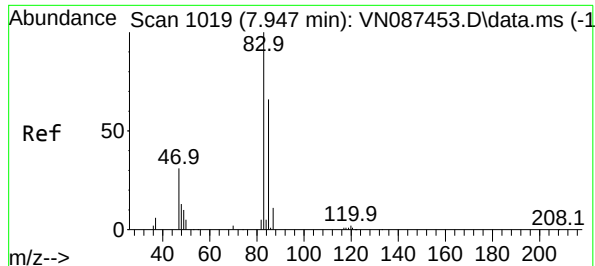
Tgt Ion: 73 Resp: 84726

Ion Ratio Lower Upper

73 100

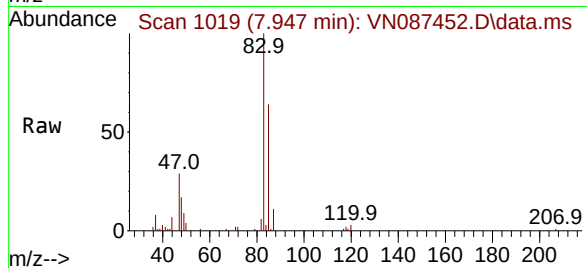
43 9.1 19.9 29.9#





#25  
Chloroform  
Concen: 5.146 ug/l  
RT: 7.947 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

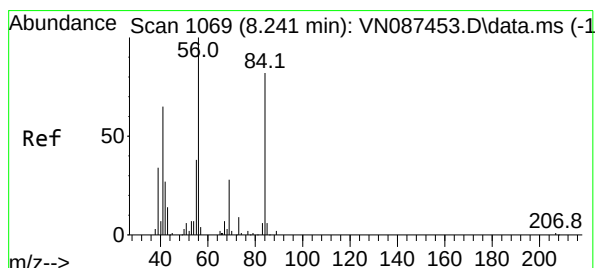
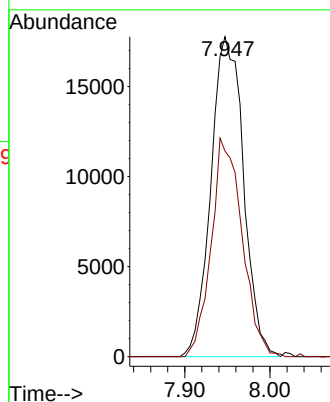
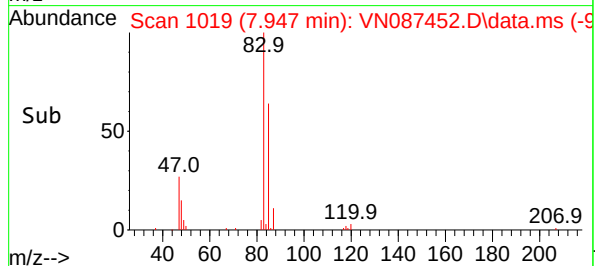
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 83 Resp: 47159  
Ion Ratio Lower Upper  
83 100  
85 64.3 52.6 78.8

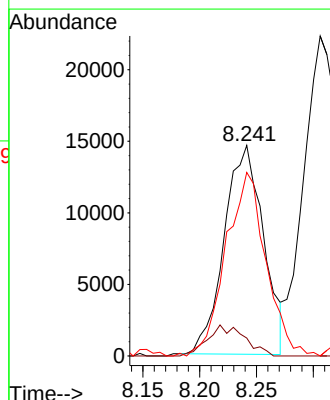
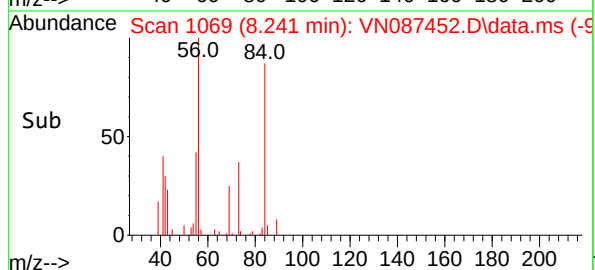
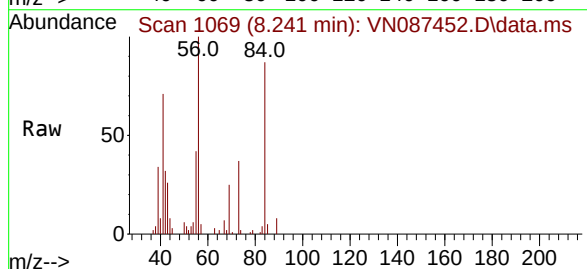
Manual Integrations  
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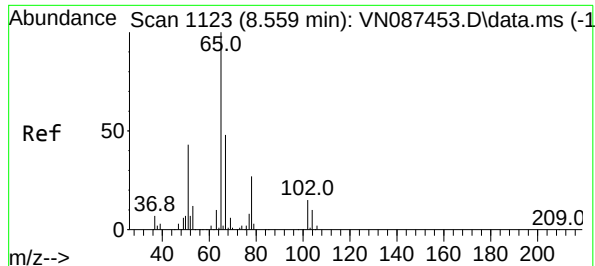
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#26  
Cyclohexane  
Concen: 4.994 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

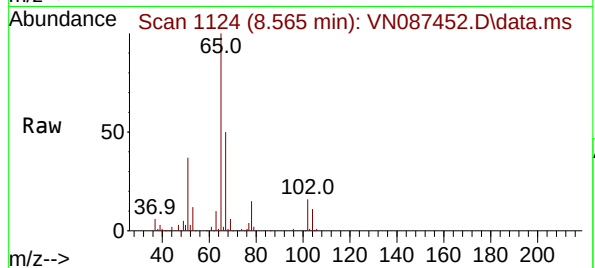
Tgt Ion: 56 Resp: 35104  
Ion Ratio Lower Upper  
56 100  
89 7.6 2.3 3.5#  
84 89.5 67.0 100.4





#27  
1,2-Dichloroethane-d4  
Concen: 30.050 ug/l  
RT: 8.565 min Scan# 1124  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

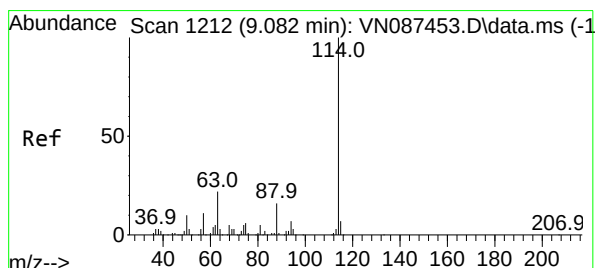
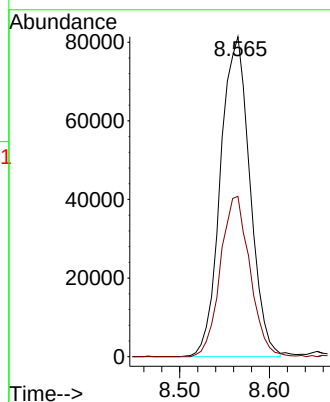
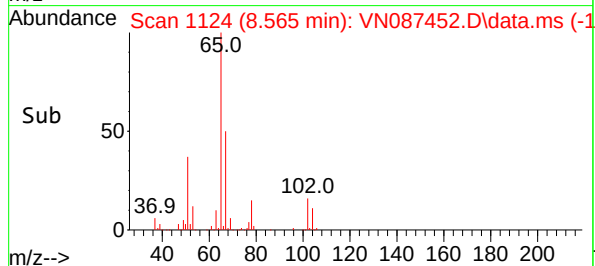
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 65 Resp: 185120  
Ion Ratio Lower Upper  
65 100  
67 50.3 40.8 61.2

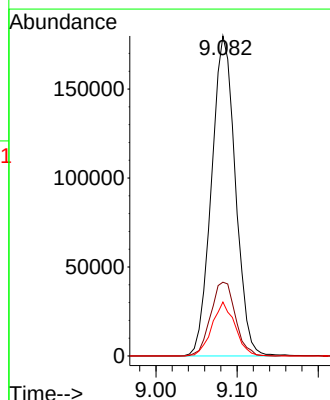
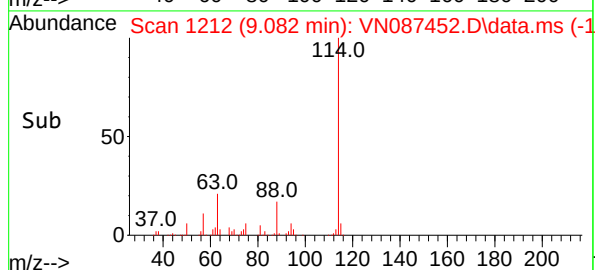
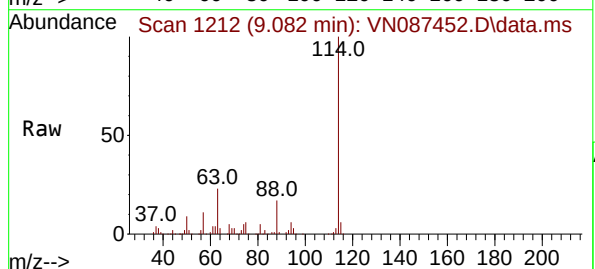
Manual Integrations  
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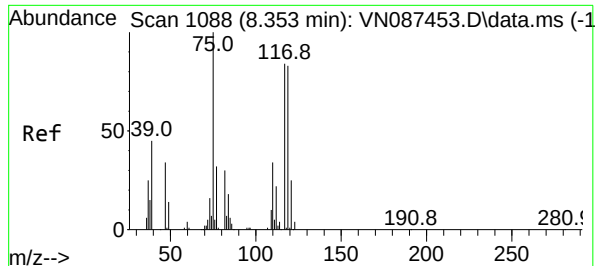
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:114 Resp: 367765  
Ion Ratio Lower Upper  
114 100  
63 23.8 18.9 28.3  
88 16.3 13.1 19.7





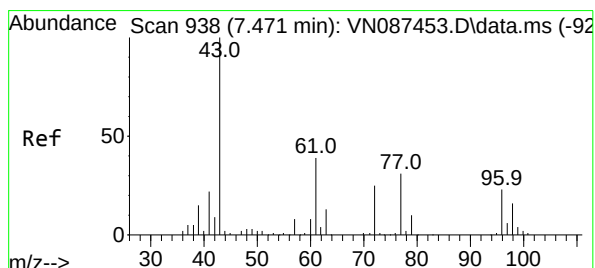
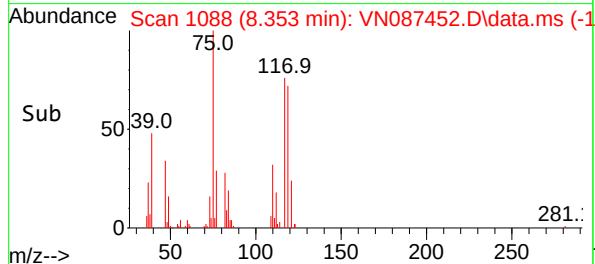
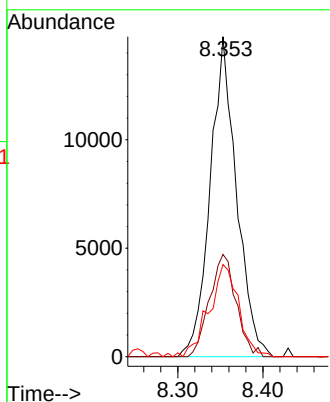
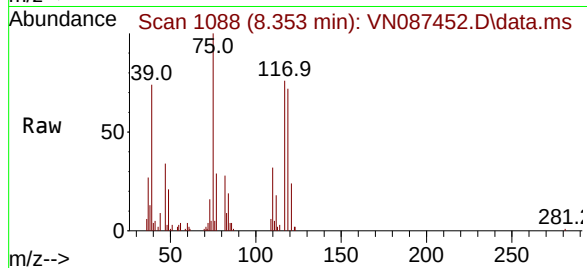
#29  
1,1-Dichloropropene  
Concen: 5.292 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 32.2  | 0.0   | 65.8  |
| 77      | 23.6  | 0.0   | 63.6  |

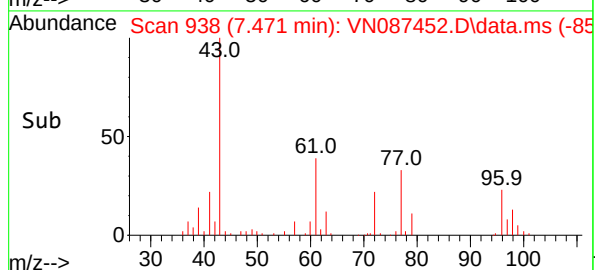
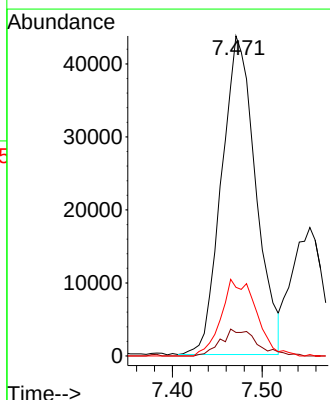
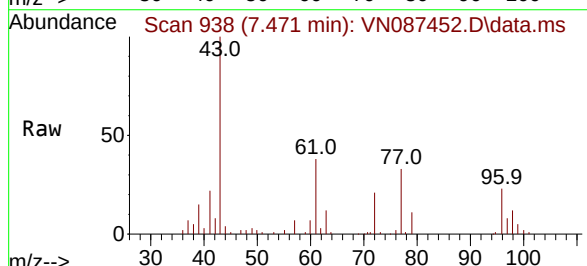
Manual Integrations  
APPROVED

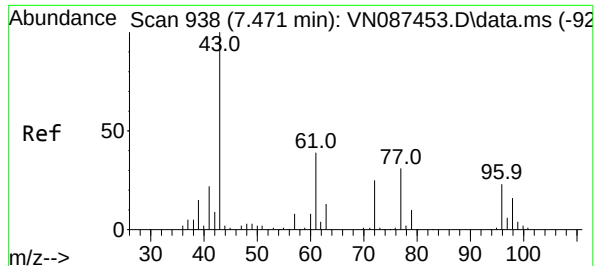
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#30  
2-Butanone  
Concen: 26.165 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 5.2   | 6.6   | 9.8#  |
| 72      | 14.5  | 19.7  | 29.5# |





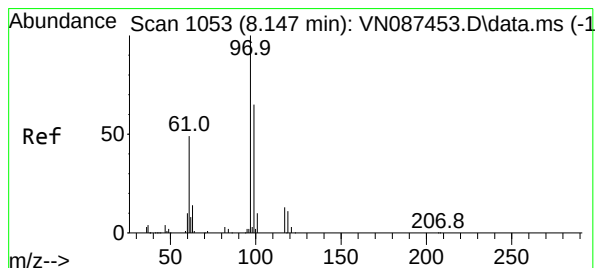
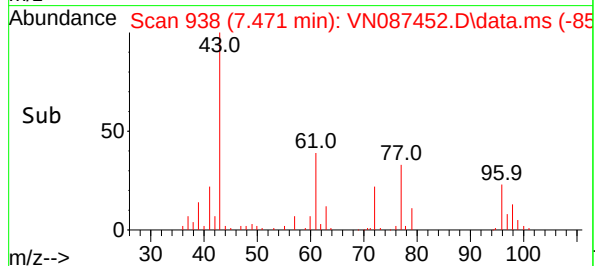
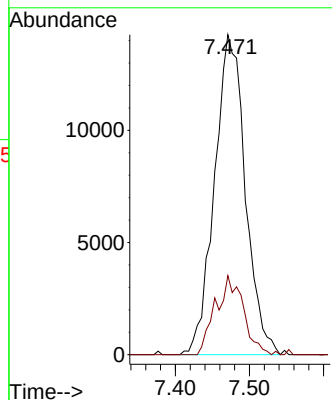
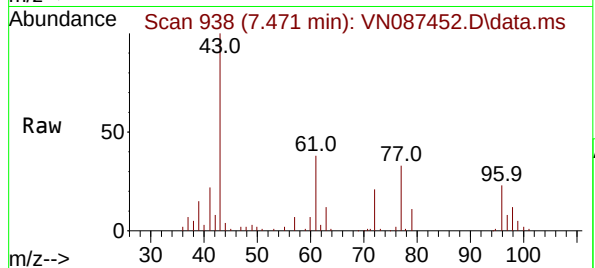
#31  
2,2-Dichloropropane  
Concen: 5.328 ug/l  
RT: 7.471 min Scan# 912  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 77 Resp: 41219  
Ion Ratio Lower Upper  
77 100  
97 2.7 16.7 25.1

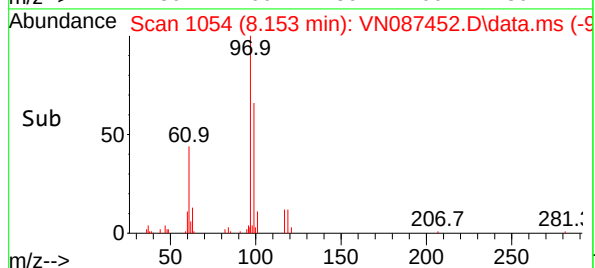
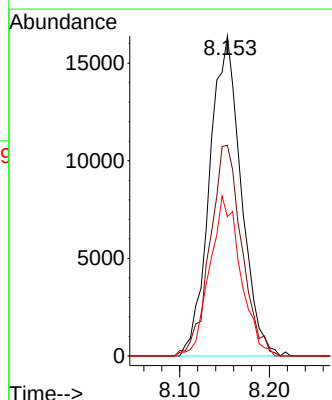
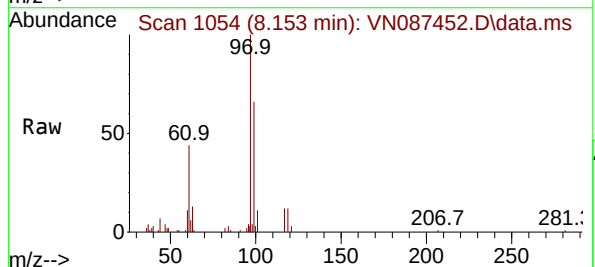
Manual Integrations  
APPROVED

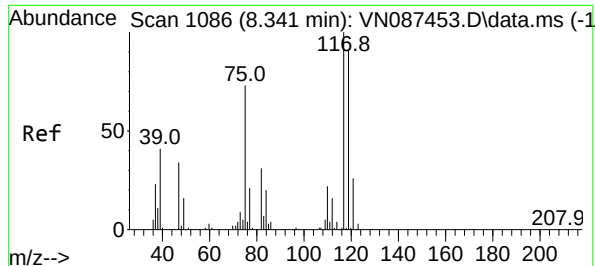
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 5.217 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 97 Resp: 39911  
Ion Ratio Lower Upper  
97 100  
99 66.1 53.0 79.6  
61 48.9 40.6 61.0





#33

Carbon Tetrachloride

Concen: 5.173 ug/l

RT: 8.341 min Scan# 1086

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

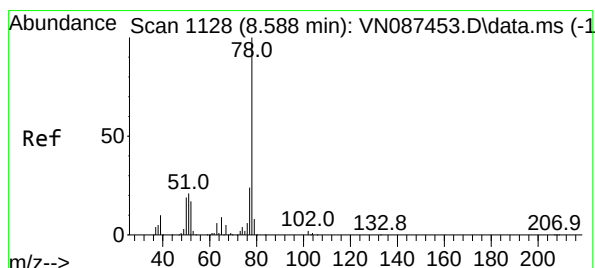
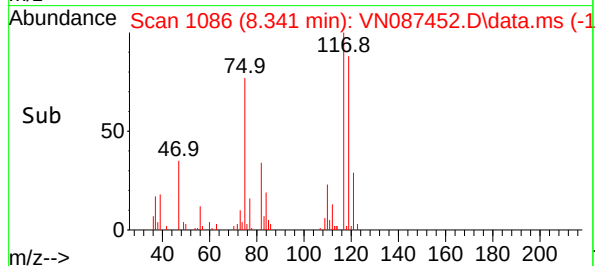
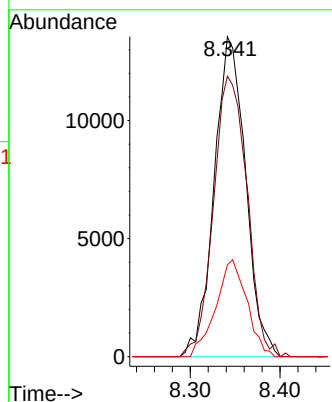
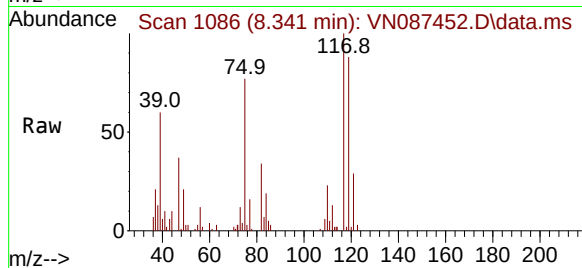
VSTDIC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 3287  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 87.6  | 73.4  | 110.0 |
| 121       | 28.7  | 21.1  | 31.7  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#34

Benzene

Concen: 5.207 ug/l

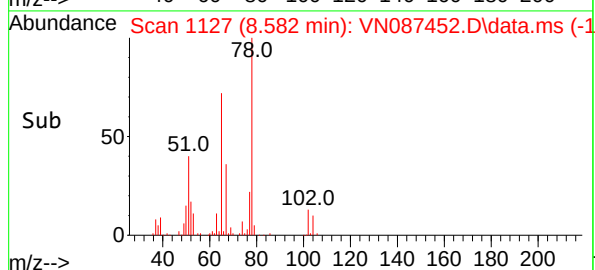
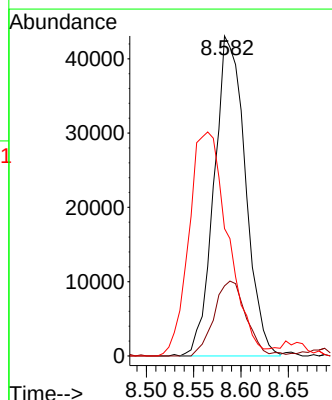
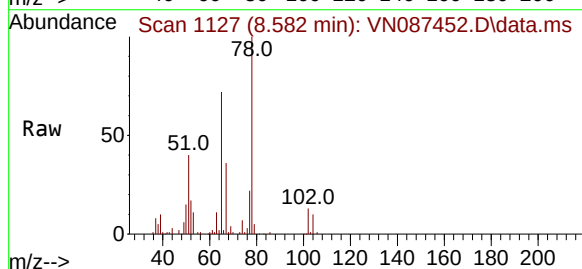
RT: 8.582 min Scan# 1127

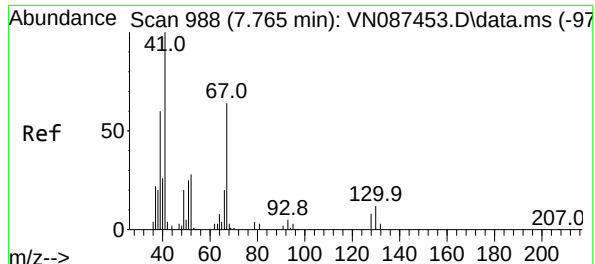
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 78    | Resp: | 98586 |
| Ion Ratio | Lower | Upper |       |
| 78        | 100   |       |       |
| 77        | 21.9  | 19.2  | 28.8  |
| 51        | 37.4  | 16.9  | 25.3  |





#35

Methacrylonitrile

Concen: 5.260 ug/l

RT: 7.771 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 25099

Ion Ratio Lower Upper

41 100

39 52.8 30.1 90.5

67 58.9 32.0 96.2

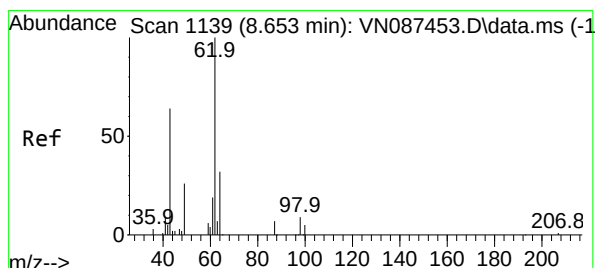
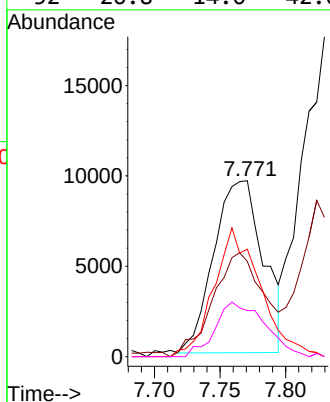
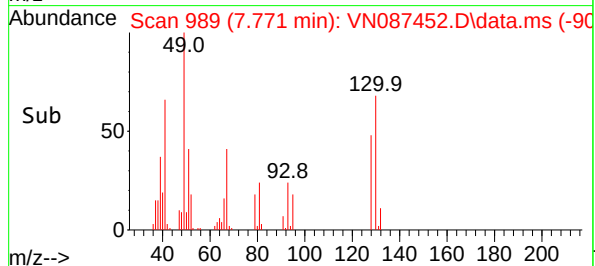
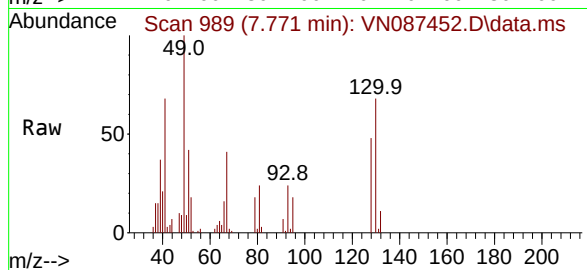
52 26.8 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 5.291 ug/l

RT: 8.647 min Scan# 1138

Delta R.T. -0.006 min

Lab File: VN087452.D

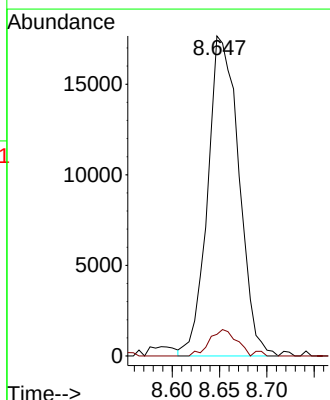
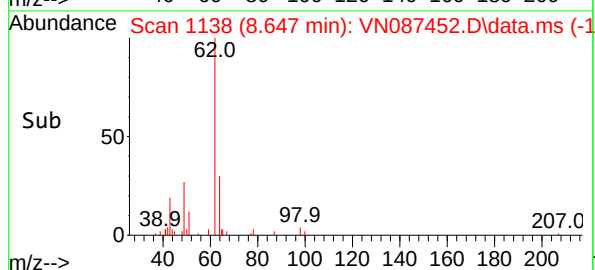
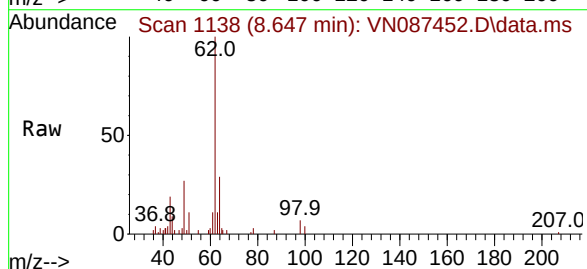
Acq: 05 Aug 2025 13:37

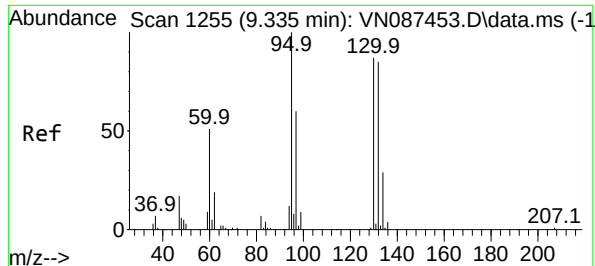
Tgt Ion: 62 Resp: 40495

Ion Ratio Lower Upper

62 100

98 7.1 6.6 9.8





#37

Trichloroethene

Concen: 5.213 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 2174

Ion Ratio Lower Upper

130 100

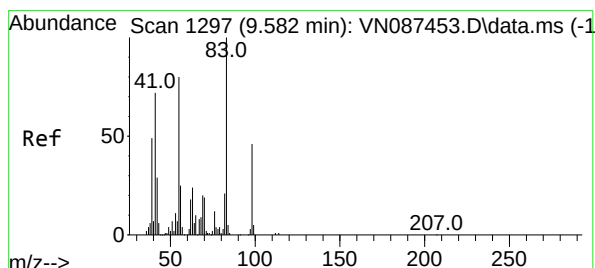
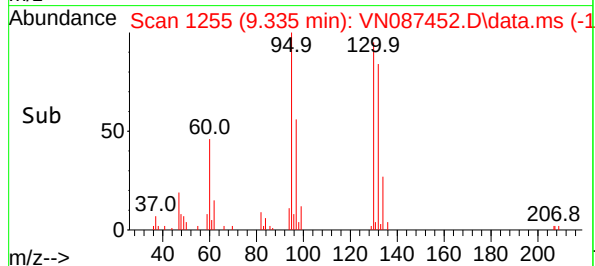
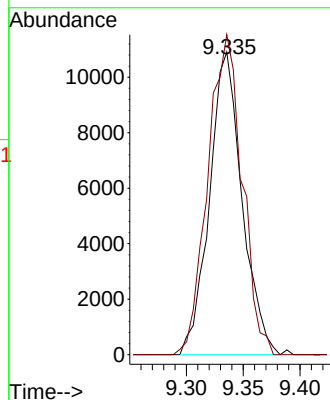
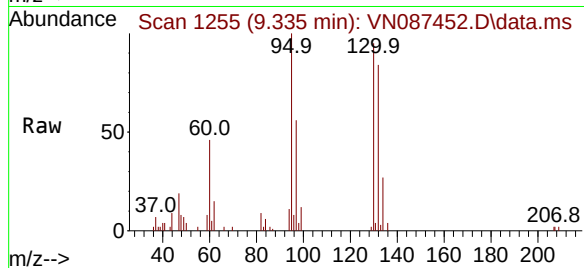
95 105.7 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 5.313 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

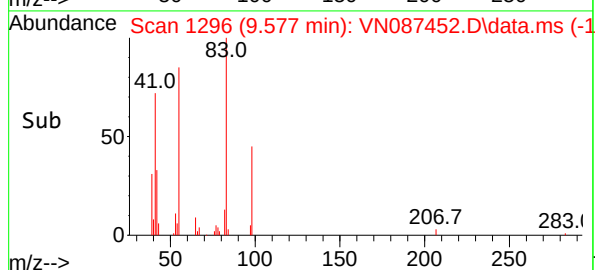
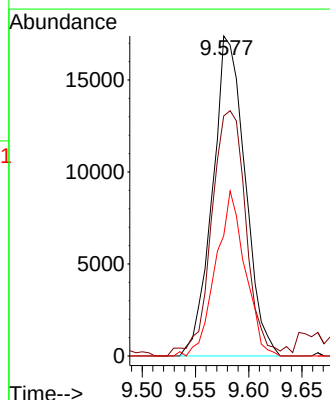
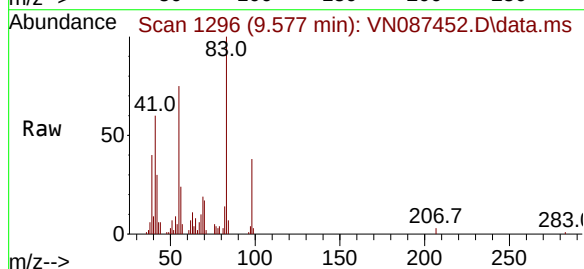
Tgt Ion: 83 Resp: 36974

Ion Ratio Lower Upper

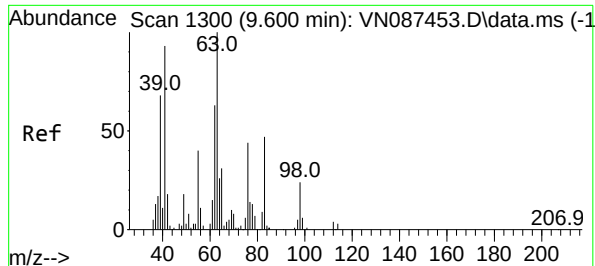
83 100

55 79.5 41.2 123.6

98 46.2 23.3 69.9







#39

1,2-Dichloropropane

Concen: 5.333 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 2588

Ion Ratio Lower Upper

63 100

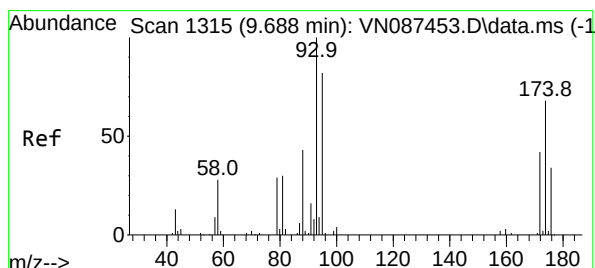
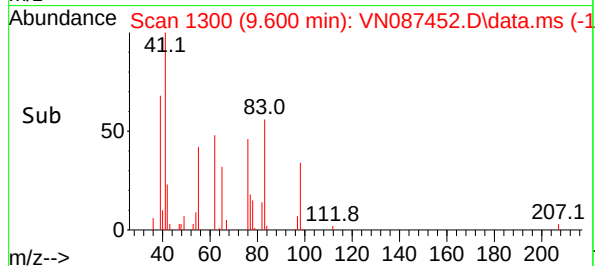
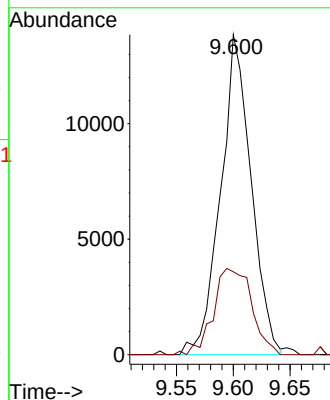
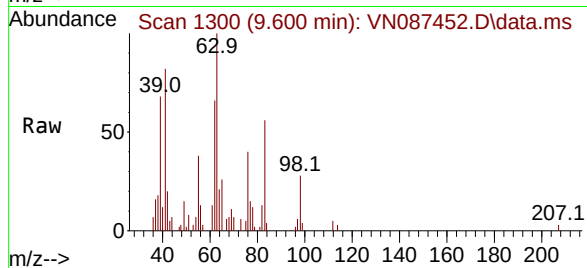
65 25.9 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 5.327 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

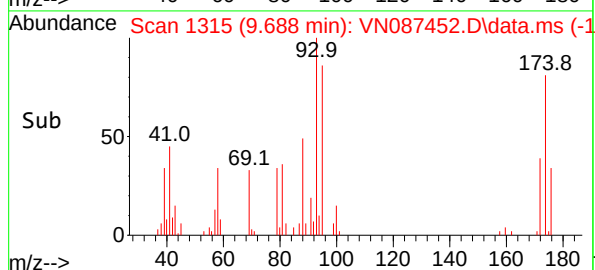
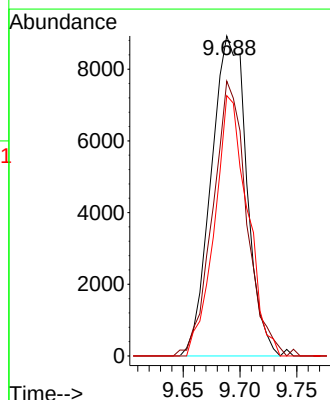
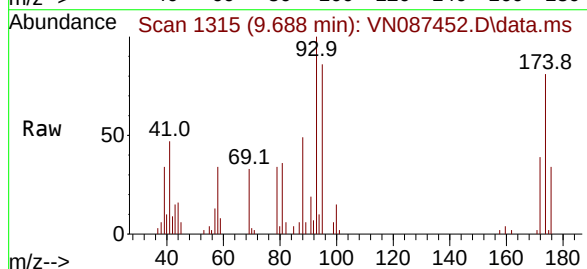
Tgt Ion: 93 Resp: 19402

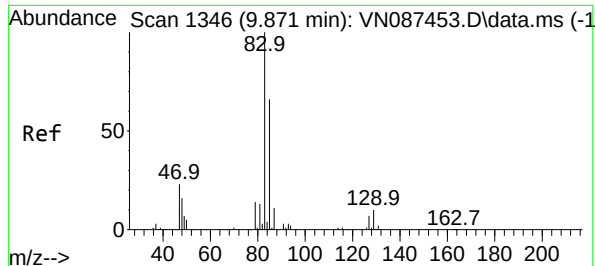
Ion Ratio Lower Upper

93 100

95 81.7 0.0 161.6

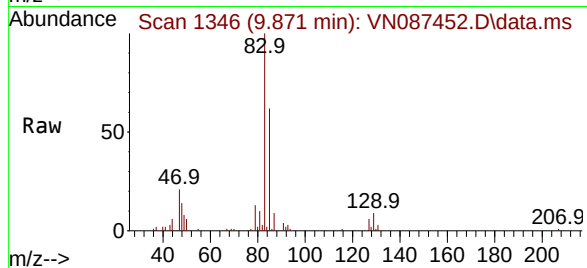
174 75.6 0.0 151.4





#41  
Bromodichloromethane  
Concen: 5.362 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

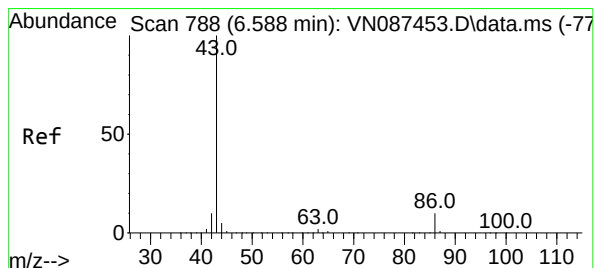
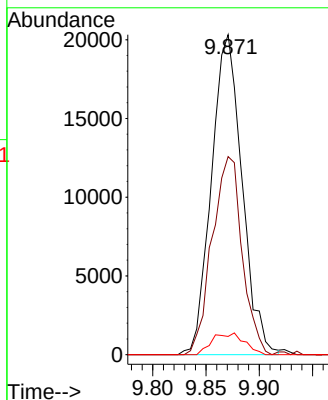
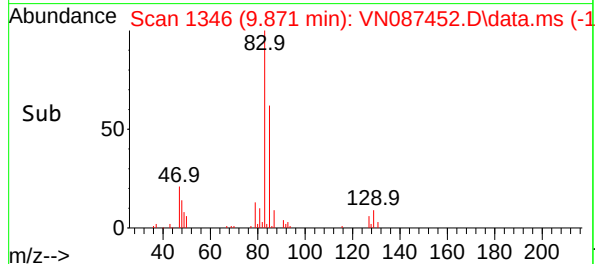
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 83 Resp: 40582  
Ion Ratio Lower Upper  
83 100  
85 61.9 52.9 79.3  
127 5.7 5.8 8.6

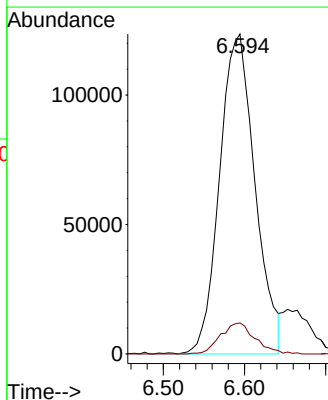
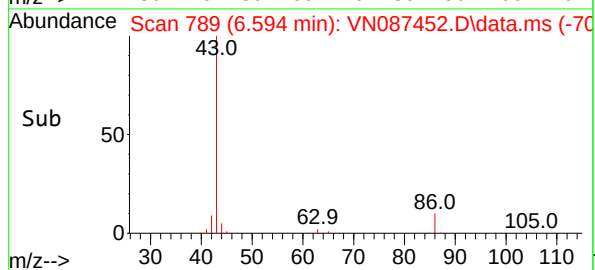
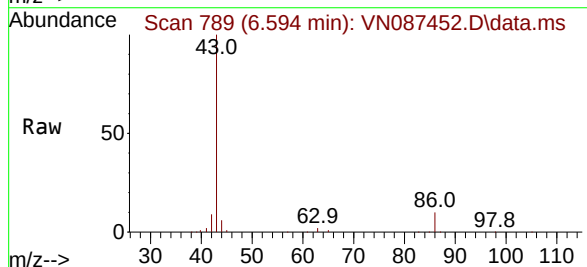
Manual Integrations  
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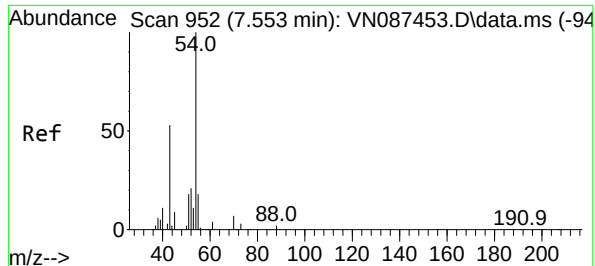
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 25.723 ug/l  
RT: 6.594 min Scan# 789  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 374548  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.3 10.9





#43

Ethyl Acetate

Concen: 5.423 ug/l m

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 45639

Ion Ratio Lower Upper

43 100

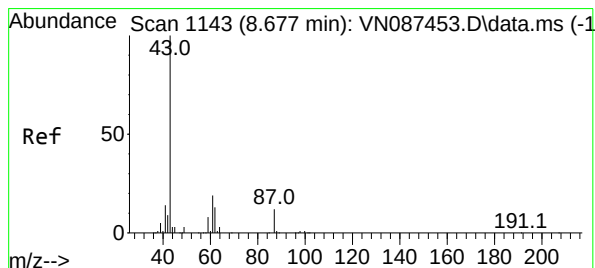
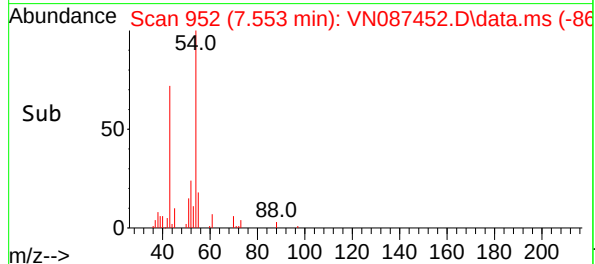
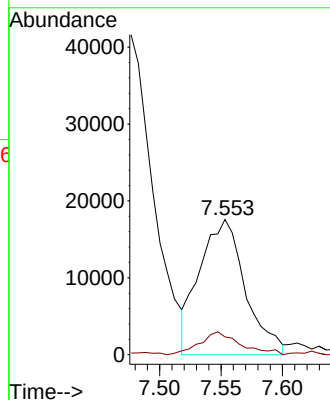
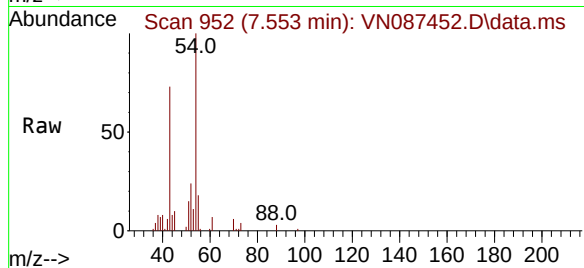
45 14.3 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 5.197 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087452.D

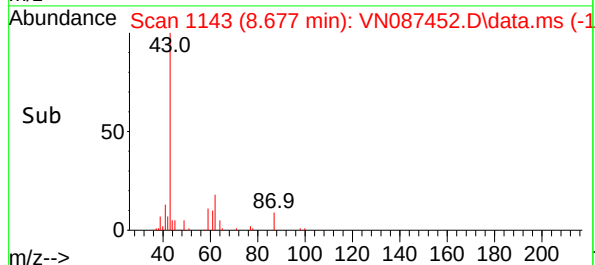
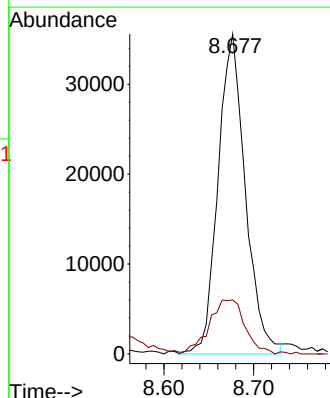
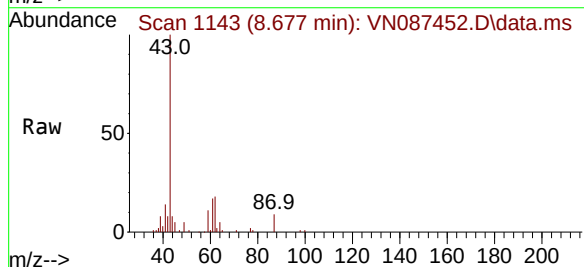
Acq: 05 Aug 2025 13:37

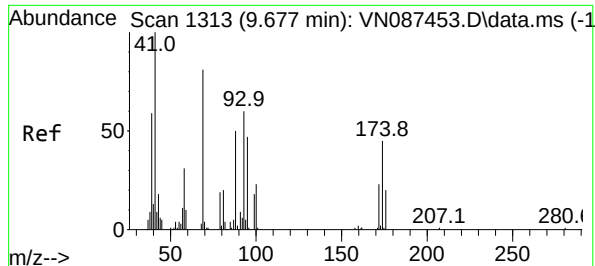
Tgt Ion: 43 Resp: 75250

Ion Ratio Lower Upper

43 100

61 22.1 18.6 28.0





#45

1,4-Dioxane

Concen: 103.972 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

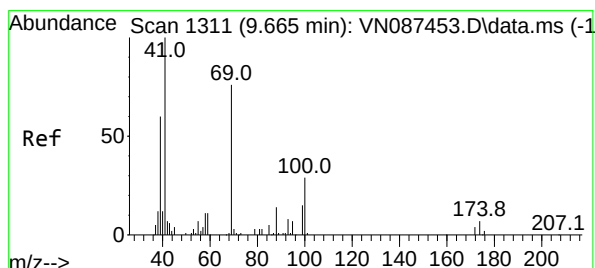
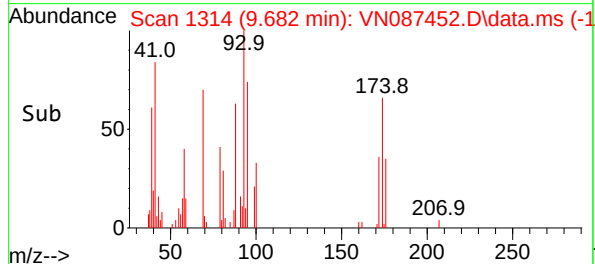
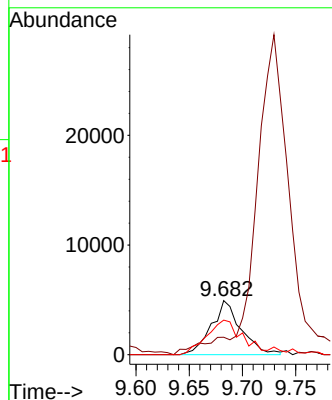
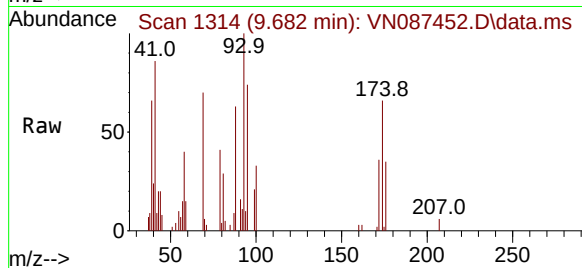
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 959   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 9.7   | 24.1  | 36.1  |
| 58       | 76.6  | 57.2  | 85.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 5.168 ug/l

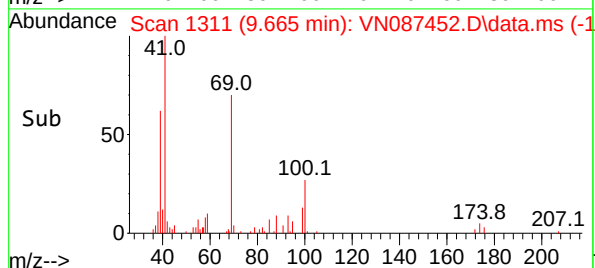
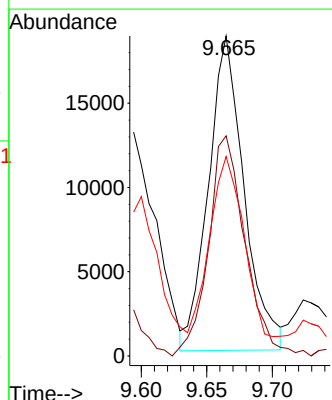
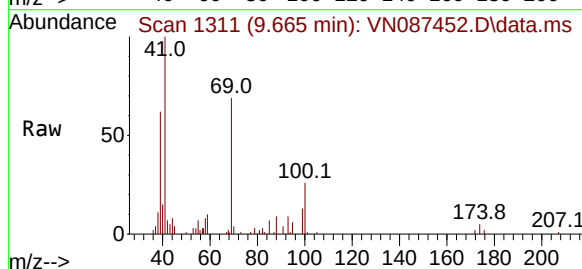
RT: 9.665 min Scan# 1311

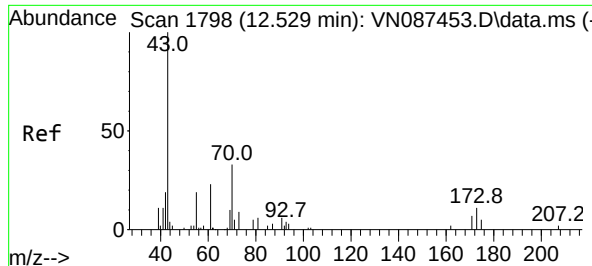
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 35322 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 71.7  | 37.1  | 111.5 |
| 39       | 61.0  | 30.7  | 92.1  |





#47

n-amy1 Acetate

Concen: 4.524 ug/l m

RT: 12.682 min Scan# 1824

Delta R.T. 0.153 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 32939

Ion Ratio Lower Upper

43 100

55 1.1

4.6

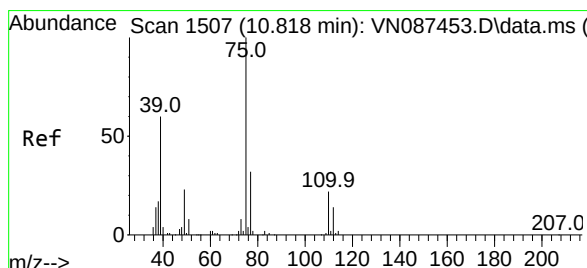
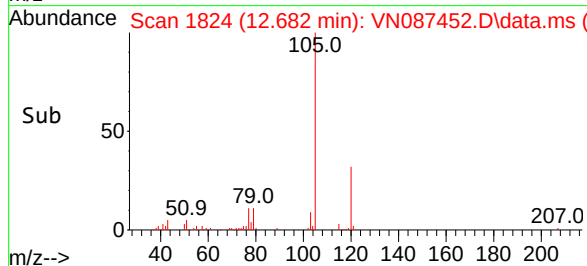
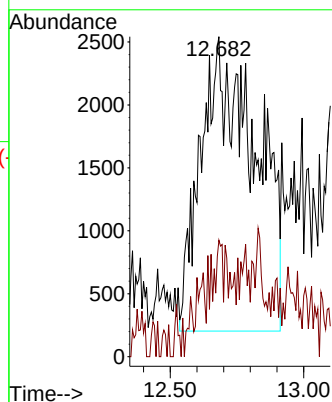
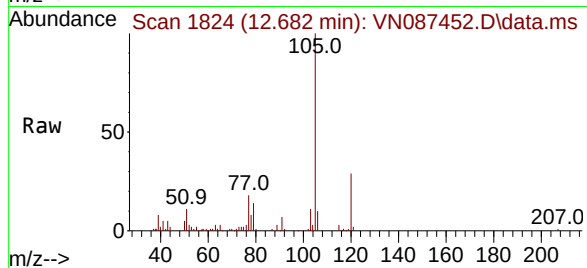
6.8

Manual Integrations

APPROVED

Reviewed By :John Carbone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 5.029 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion: 75 Resp: 41412

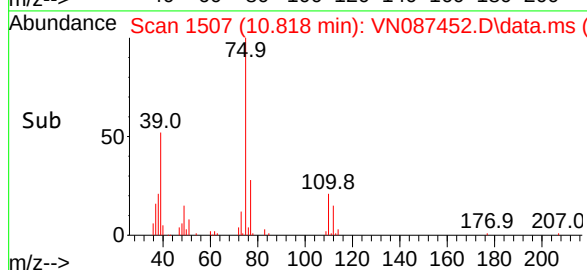
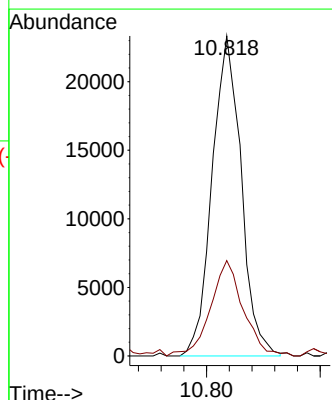
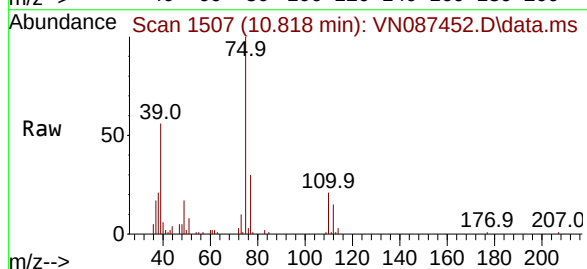
Ion Ratio Lower Upper

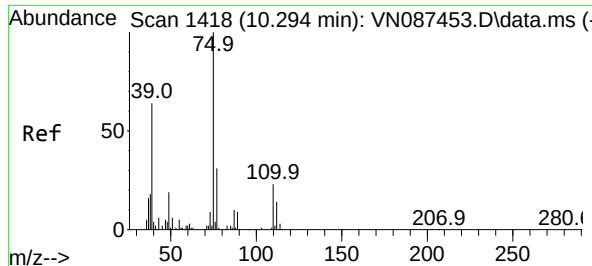
75 100

77 29.0

25.3

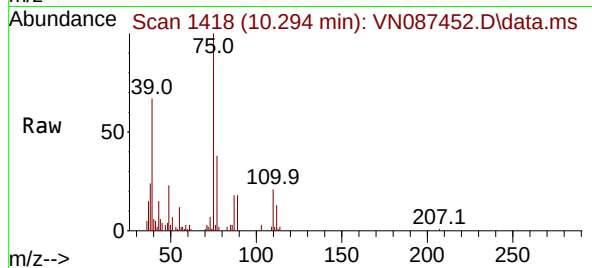
37.9





#49  
cis-1,3-Dichloropropene  
Concen: 5.083 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

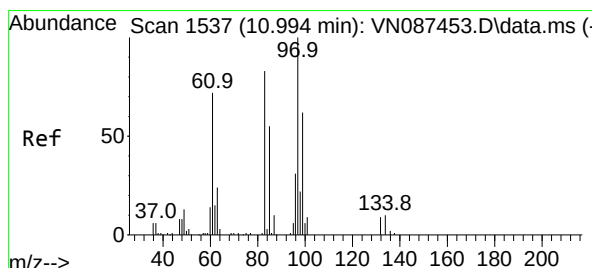
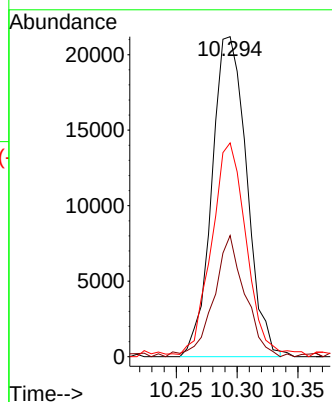
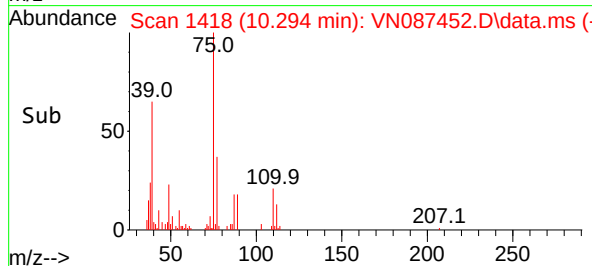
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion: 75 Resp: 42124  
Ion Ratio Lower Upper  
75 100  
77 37.8 24.6 36.8  
39 66.1 51.5 77.3

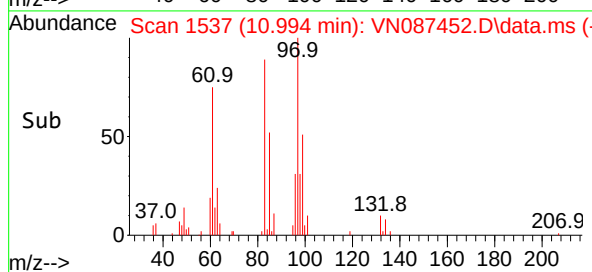
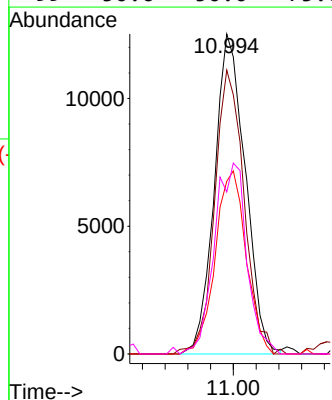
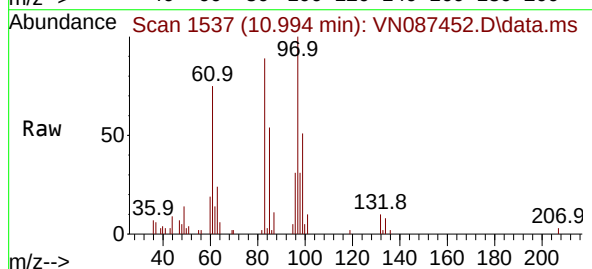
Manual Integrations  
APPROVED

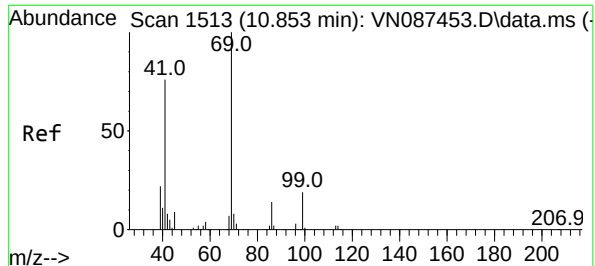
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#50  
1,1,2-Trichloroethane  
Concen: 5.123 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 97 Resp: 23578  
Ion Ratio Lower Upper  
97 100  
83 87.3 66.2 99.2  
85 53.9 43.9 65.9  
99 50.6 50.0 75.0





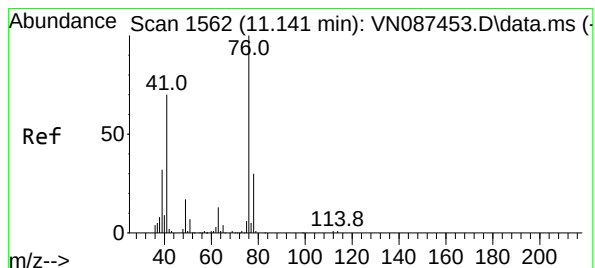
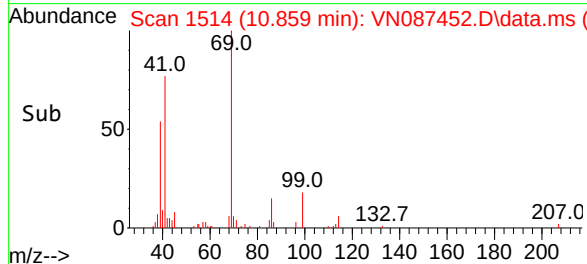
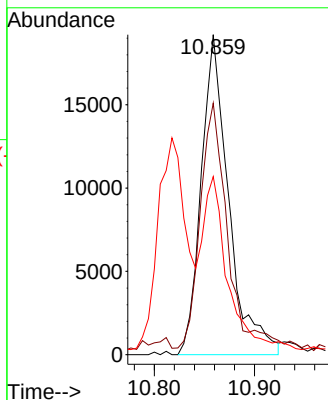
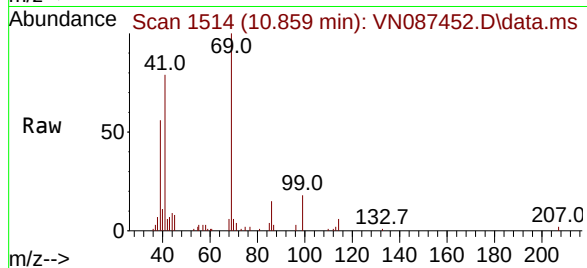
#51  
Ethyl methacrylate  
Concen: 4.529 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 69 Resp: 3670  
Ion Ratio Lower Upper  
69 100  
41 76.5 38.0 114.1  
39 51.6 23.2 69.5

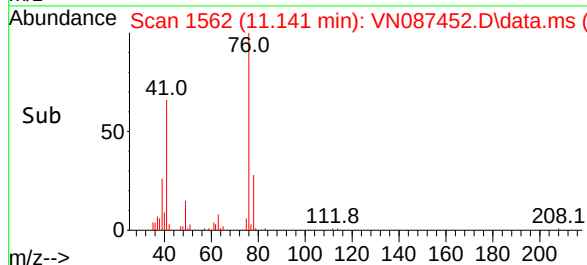
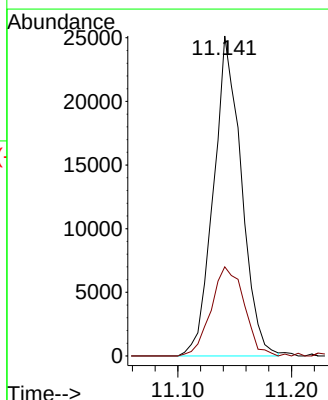
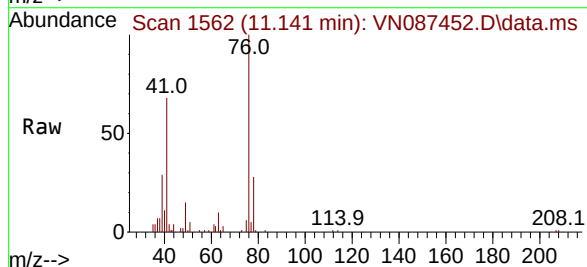
Manual Integrations  
APPROVED

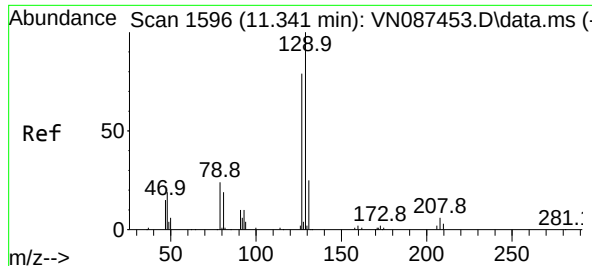
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#52  
1,3-Dichloropropane  
Concen: 5.166 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

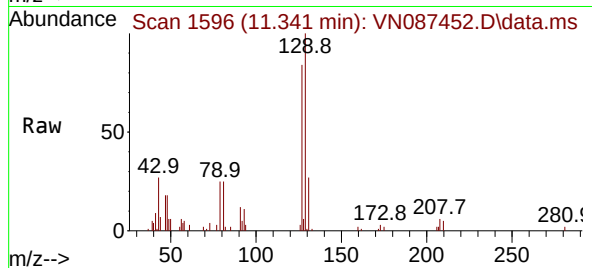
Tgt Ion: 76 Resp: 42828  
Ion Ratio Lower Upper  
76 100  
78 32.9 0.0 63.0





#53  
Dibromochloromethane  
Concen: 4.929 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

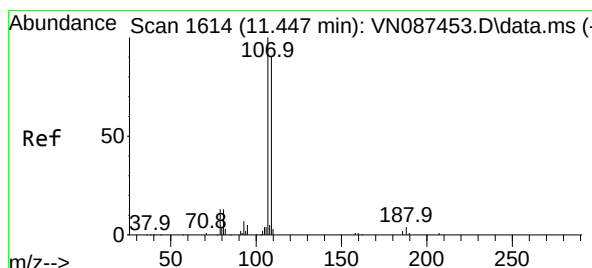
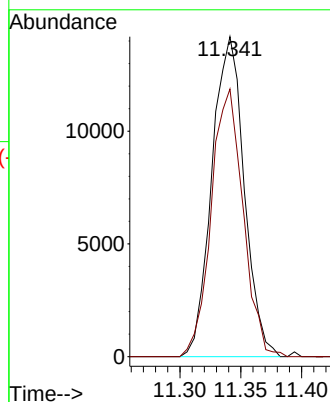
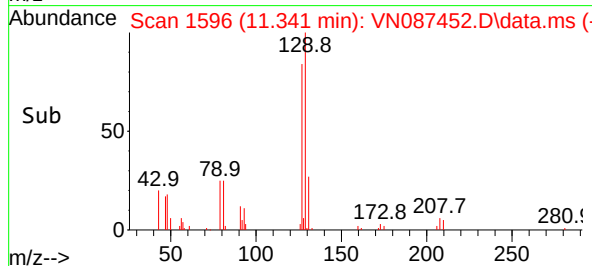
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



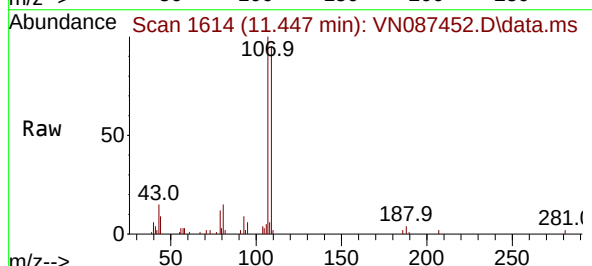
Tgt Ion:129 Resp: 26190  
Ion Ratio Lower Upper  
129 100  
127 82.3 39.1 117.3

Manual Integrations  
APPROVED

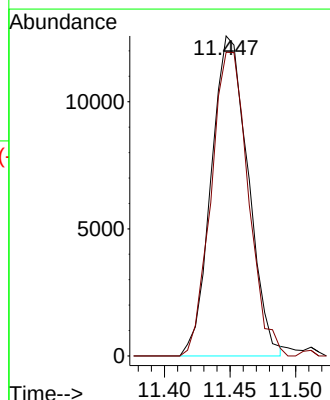
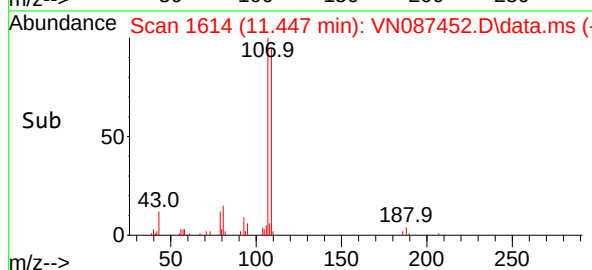
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



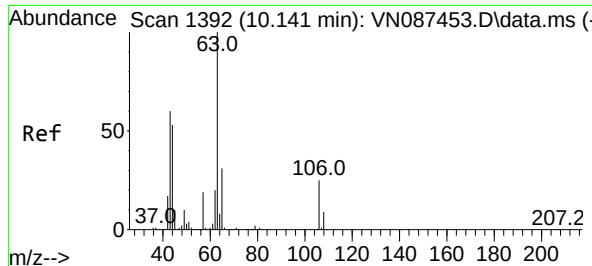
#54  
1,2-Dibromoethane  
Concen: 5.026 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37



Tgt Ion:107 Resp: 24555  
Ion Ratio Lower Upper  
107 100  
109 95.6 74.2 111.4







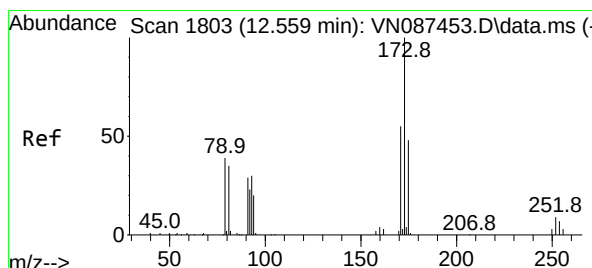
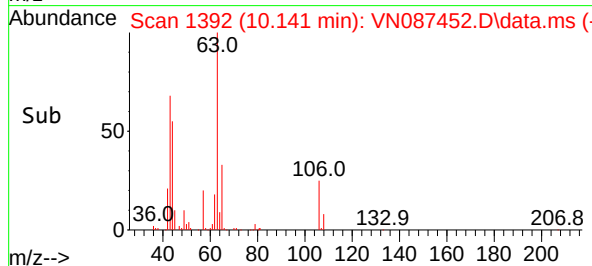
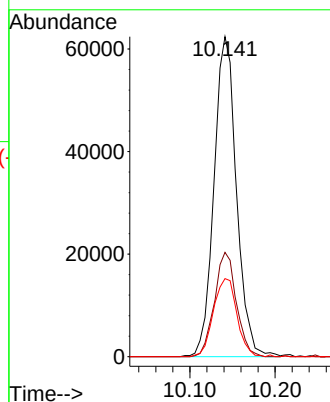
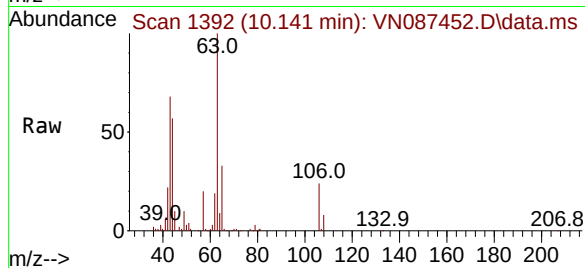
#55  
2-Chloroethyl vinyl ether  
Concen: 26.788 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 63 Resp: 114298  
Ion Ratio Lower Upper  
63 100  
65 31.7 25.7 38.5  
106 25.5 20.7 31.1

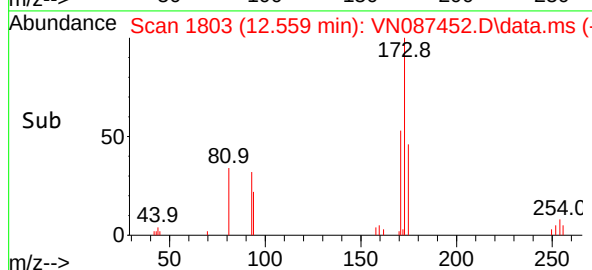
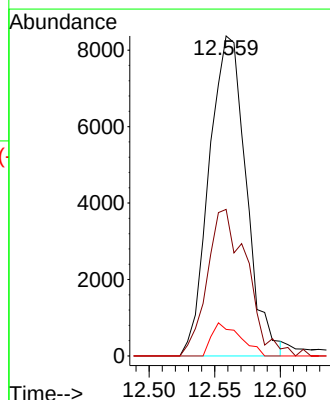
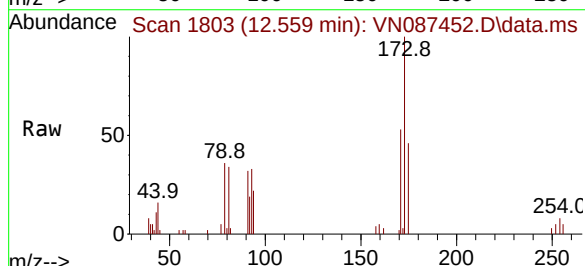
Manual Integrations  
APPROVED

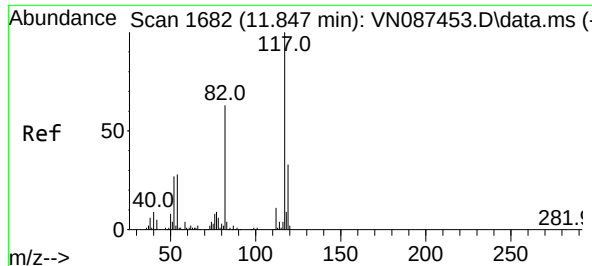
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#56  
Bromoform  
Concen: 4.675 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

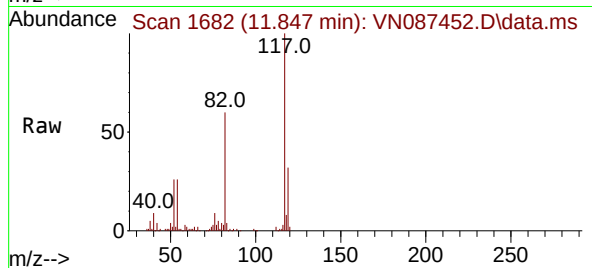
Tgt Ion:173 Resp: 16434  
Ion Ratio Lower Upper  
173 100  
175 32.9 38.8 58.2#  
254 8.0 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

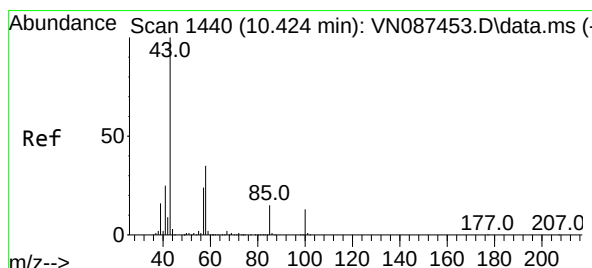
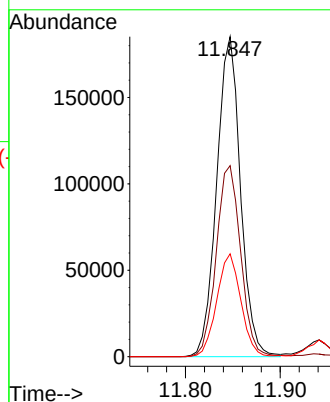
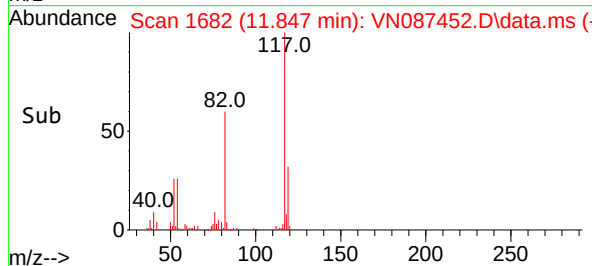
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion: 117 Resp: 324158  
Ion Ratio Lower Upper  
117 100  
82 61.1 49.2 73.8  
119 32.5 25.7 38.5

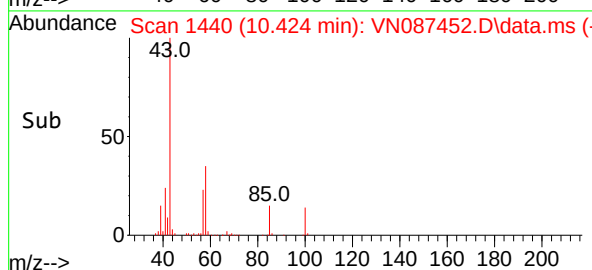
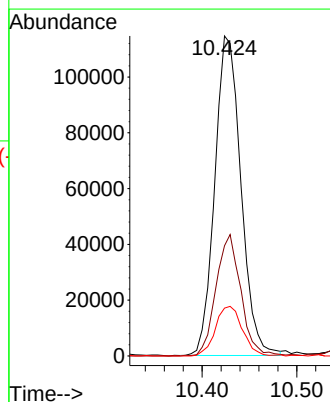
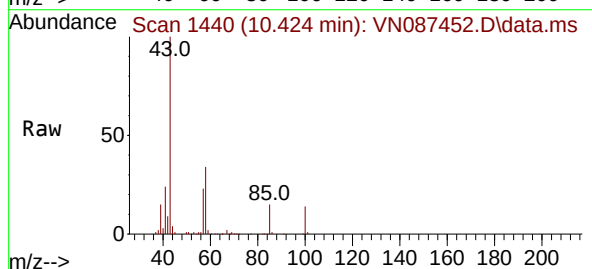
Manual Integrations  
APPROVED

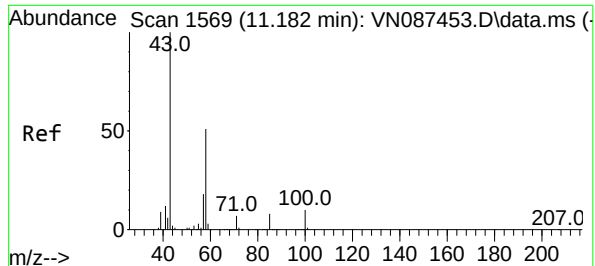
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 26.335 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

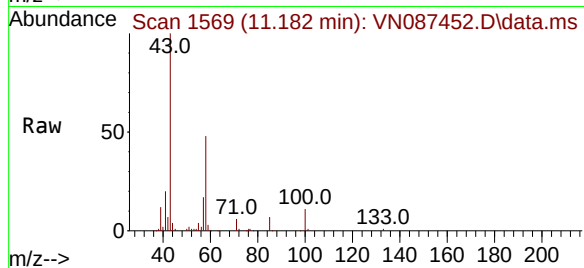
Tgt Ion: 43 Resp: 219603  
Ion Ratio Lower Upper  
43 100  
58 35.6 29.0 43.6  
85 16.0 12.7 19.1





#59  
2-Hexanone  
Concen: 23.053 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

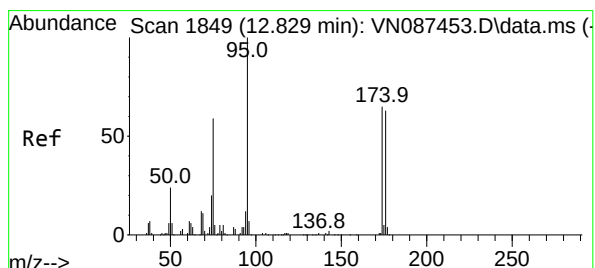
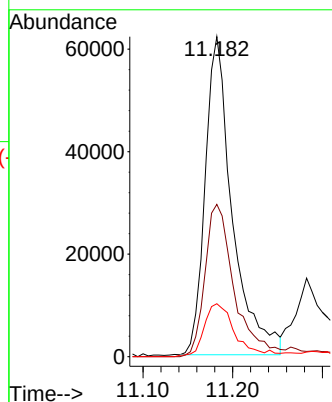
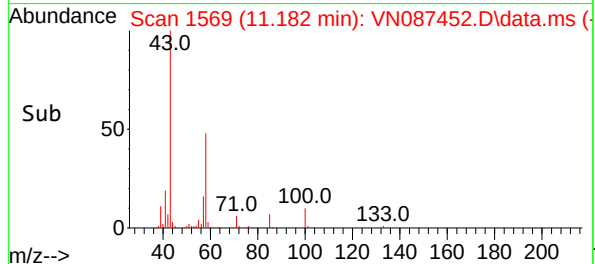
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 43 Resp: 130610  
Ion Ratio Lower Upper  
43 100  
58 51.8 41.0 61.6  
57 18.3 14.6 21.8

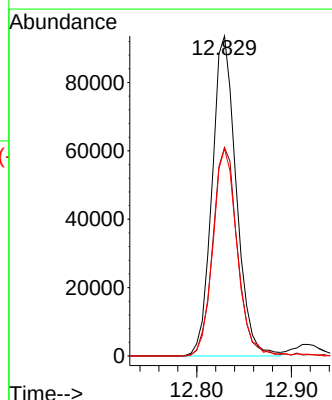
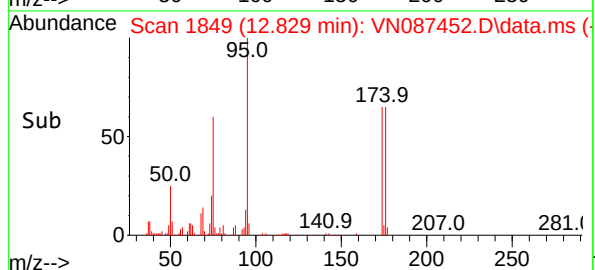
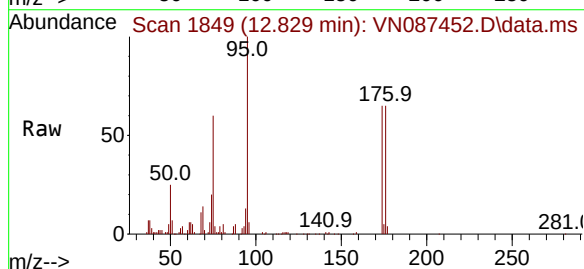
Manual Integrations  
APPROVED

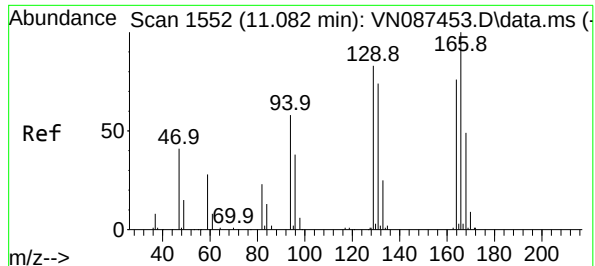
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#60  
4-Bromofluorobenzene  
Concen: 29.766 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

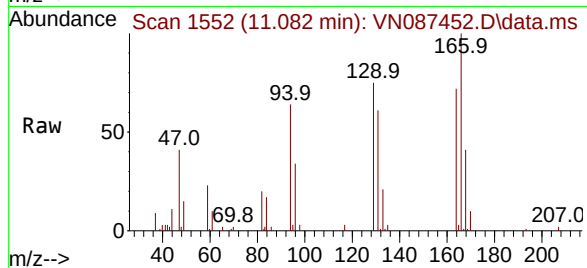
Tgt Ion: 95 Resp: 166050  
Ion Ratio Lower Upper  
95 100  
174 66.1 52.3 78.5  
176 64.5 49.8 74.8





#61  
Tetrachloroethene  
Concen: 5.471 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

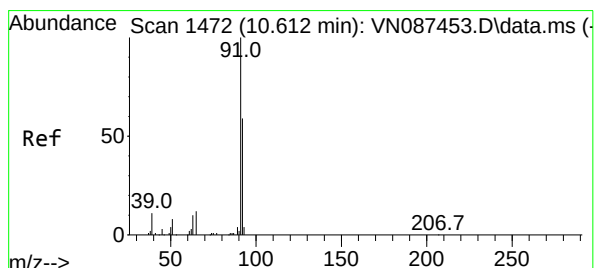
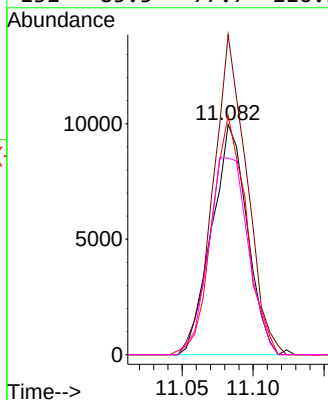
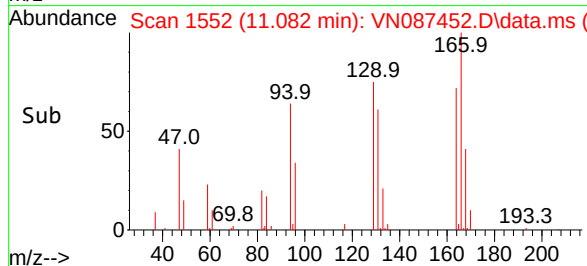
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:164 Resp: 17278  
Ion Ratio Lower Upper  
164 100  
166 139.1 105.4 158.0  
129 103.9 87.7 131.5  
131 85.5 77.7 116.5

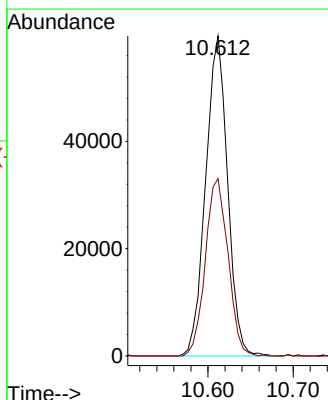
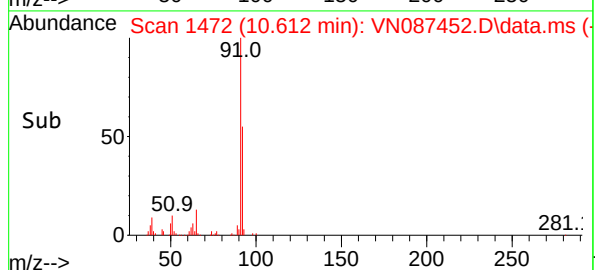
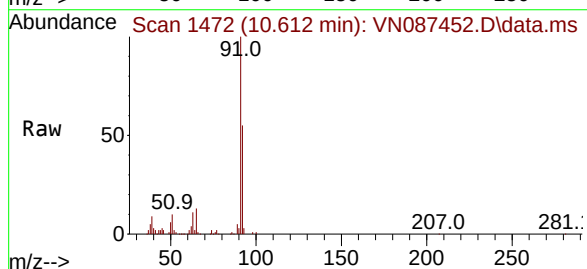
Manual Integrations  
APPROVED

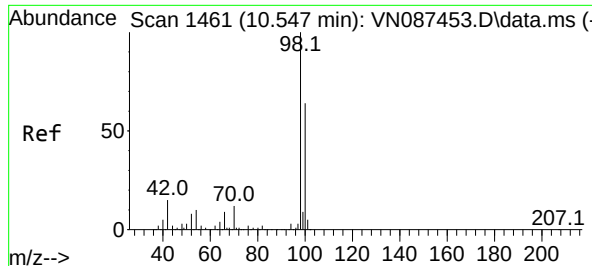
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#62  
Toluene  
Concen: 5.333 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

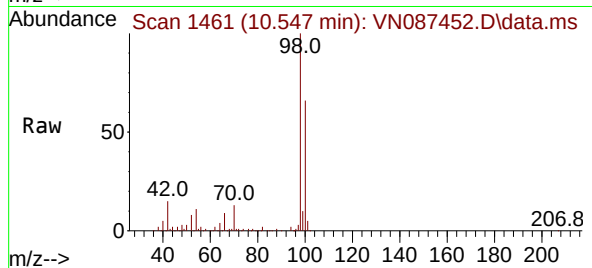
Tgt Ion: 91 Resp: 106690  
Ion Ratio Lower Upper  
91 100  
92 57.2 45.8 68.6





#63  
Toluene-d8  
Concen: 30.702 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

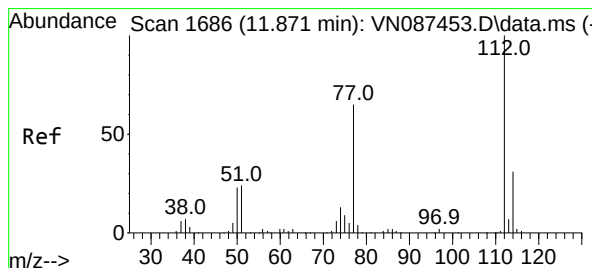
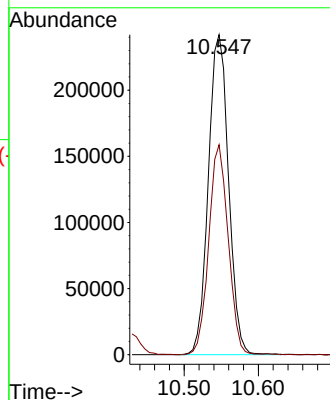
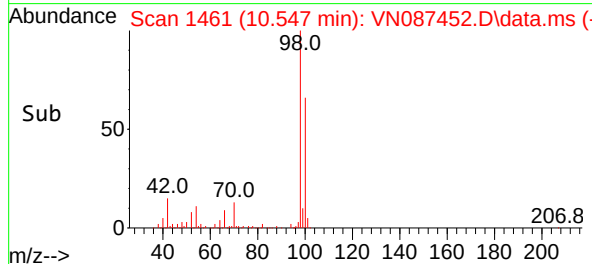
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 98 Resp: 45792  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.5 75.7

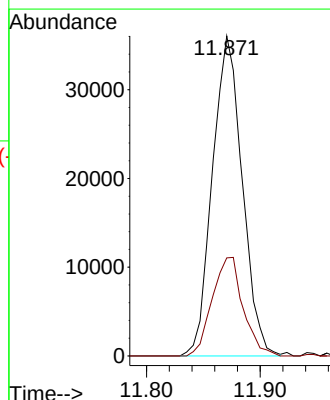
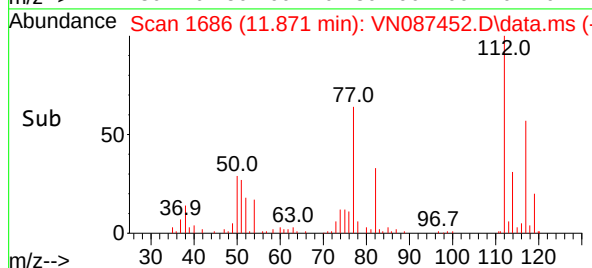
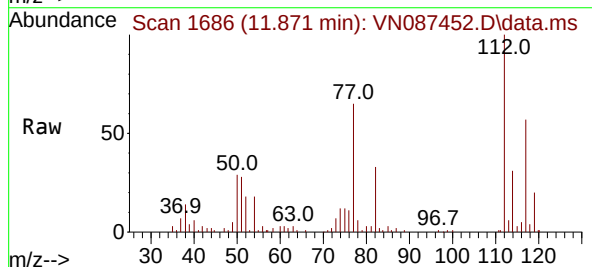
Manual Integrations  
APPROVED

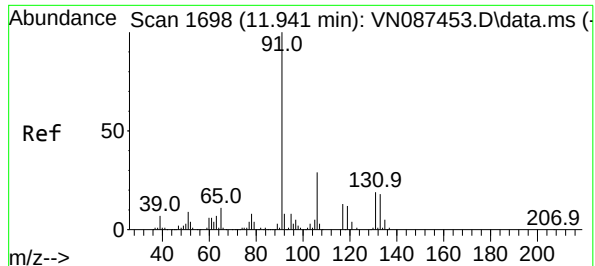
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#64  
Chlorobenzene  
Concen: 5.354 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

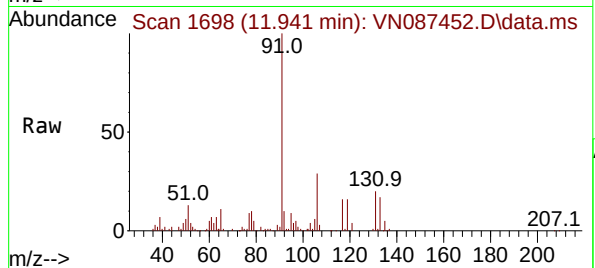
Tgt Ion:112 Resp: 65821  
Ion Ratio Lower Upper  
112 100  
114 30.7 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 5.381 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

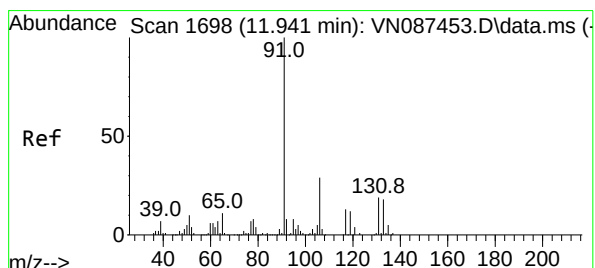
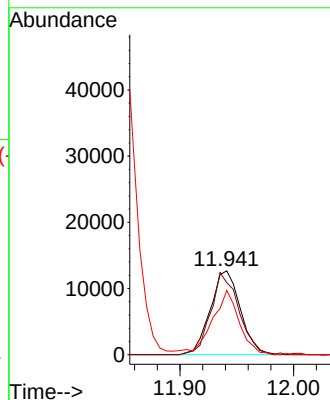
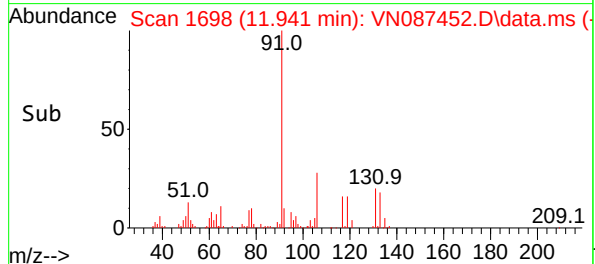
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:131 Resp: 23260  
Ion Ratio Lower Upper  
131 100  
133 91.5 0.0 189.8  
119 66.7 0.0 133.2

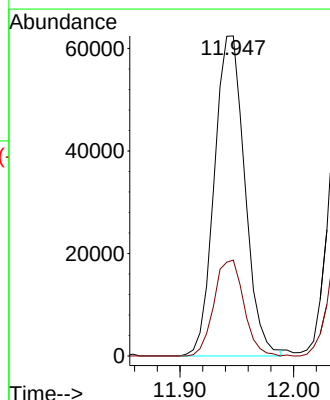
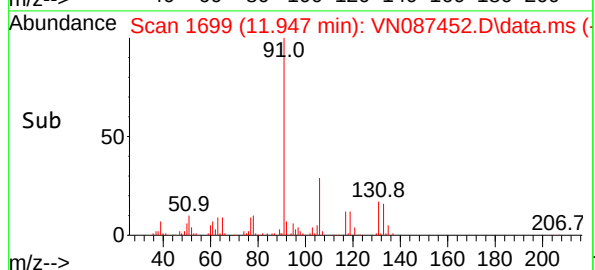
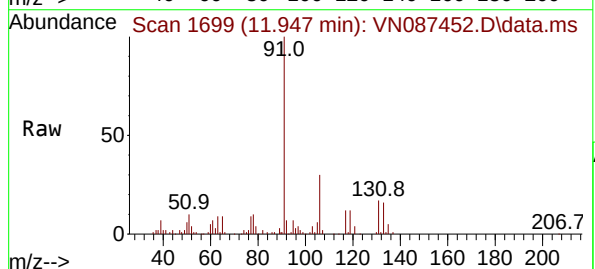
Manual Integrations  
APPROVED

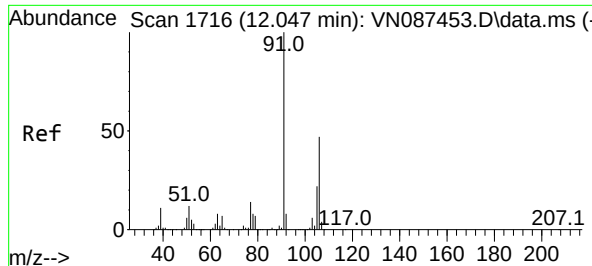
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#66  
Ethyl Benzene  
Concen: 5.219 ug/l  
RT: 11.947 min Scan# 1699  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

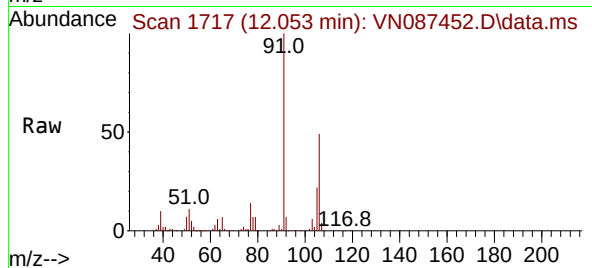
Tgt Ion: 91 Resp: 116379  
Ion Ratio Lower Upper  
91 100  
106 29.9 22.9 34.3





#67  
m/p-Xylenes  
Concen: 10.503 ug/l  
RT: 12.053 min Scan# 1716  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

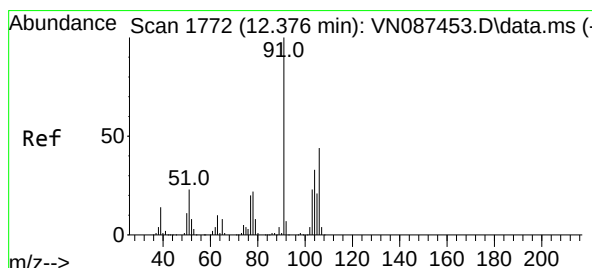
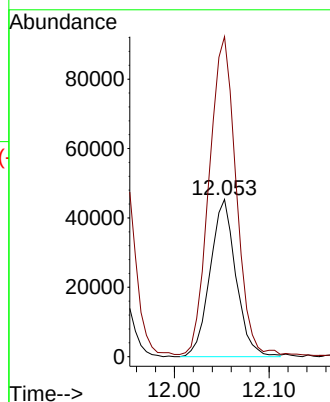
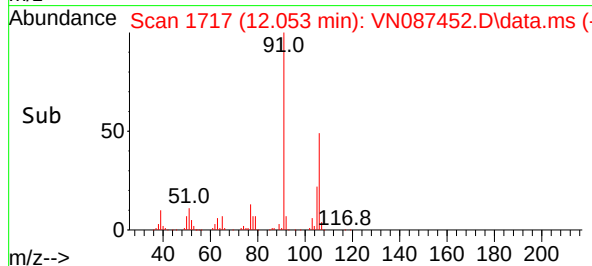
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion:106 Resp: 8596  
Ion Ratio Lower Upper  
106 100  
91 211.9 174.2 261.2

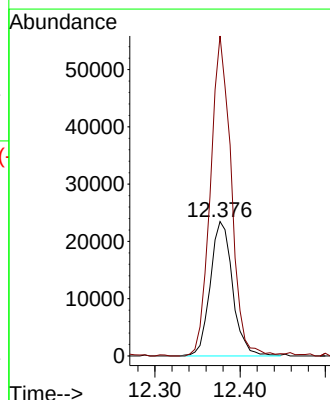
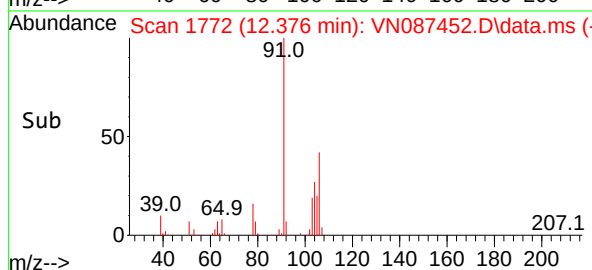
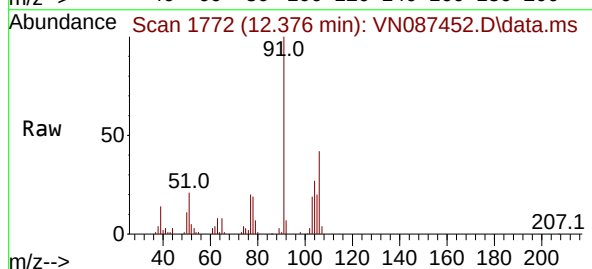
Manual Integrations  
APPROVED

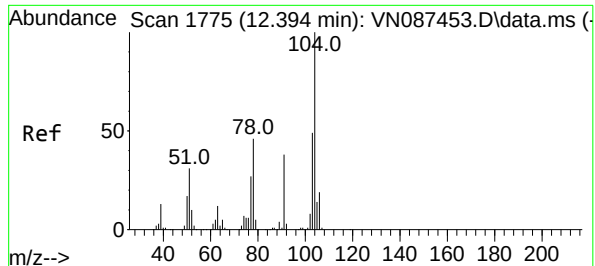
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#68  
o-Xylene  
Concen: 5.306 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:106 Resp: 42724  
Ion Ratio Lower Upper  
106 100  
91 221.3 114.5 343.5





#69

Styrene

Concen: 4.938 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion:104 Resp: 6789

Ion Ratio Lower Upper

104 100

78 52.9 43.8 65.8

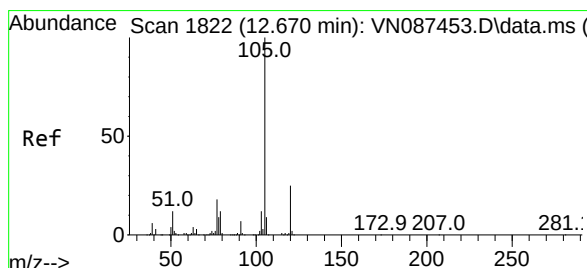
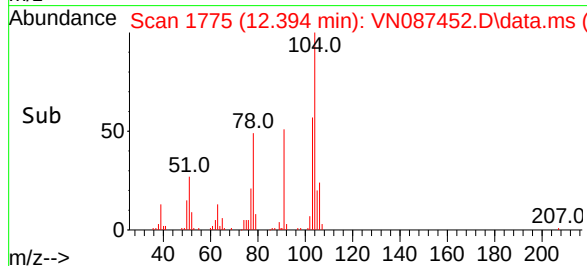
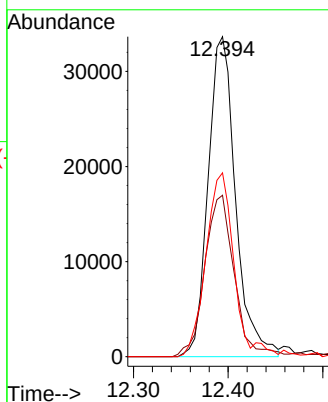
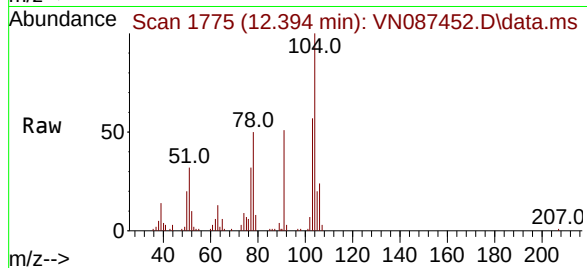
103 56.2 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 5.119 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087452.D

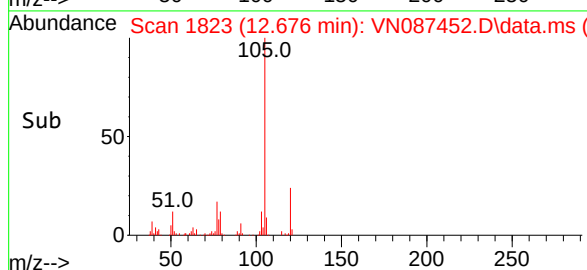
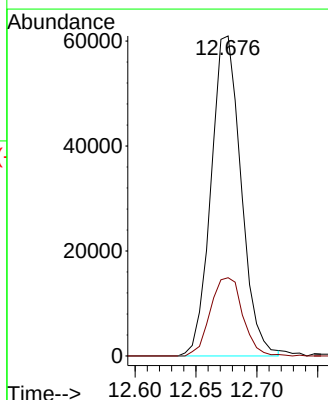
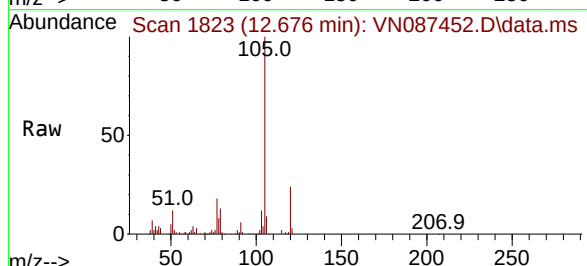
Acq: 05 Aug 2025 13:37

Tgt Ion:105 Resp: 104723

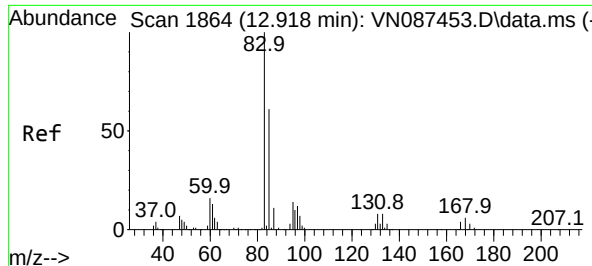
Ion Ratio Lower Upper

105 100

120 26.2 17.5 32.5







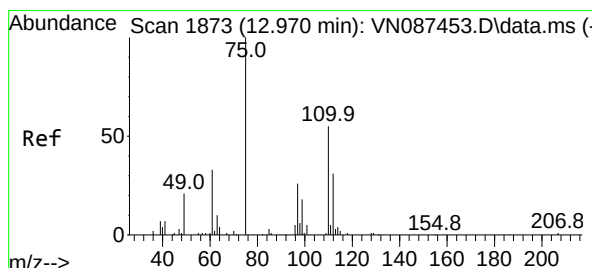
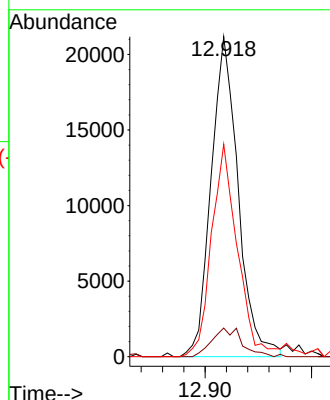
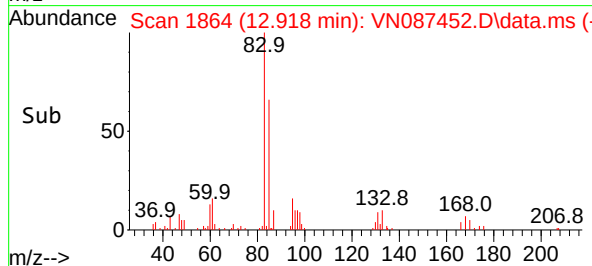
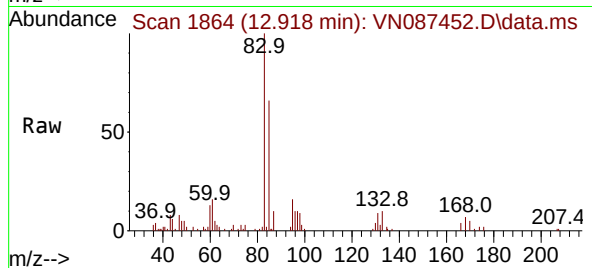
#71  
1,1,2-Tetrachloroethane  
Concen: 5.336 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 83 Resp: 3740  
Ion Ratio Lower Upper  
83 100  
131 6.3 4.8 14.3  
85 61.5 31.7 95.1

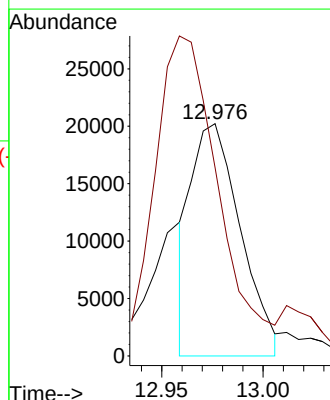
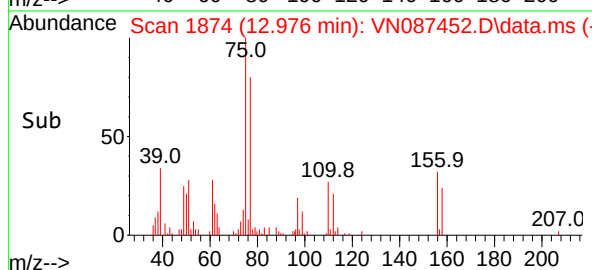
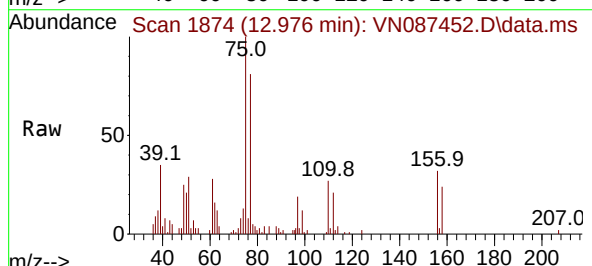
Manual Integrations  
APPROVED

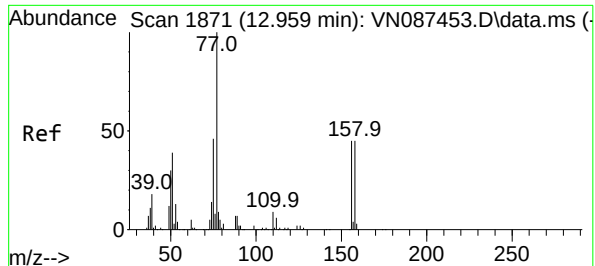
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#72  
1,2,3-Trichloropropane  
Concen: 4.733 ug/l m  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

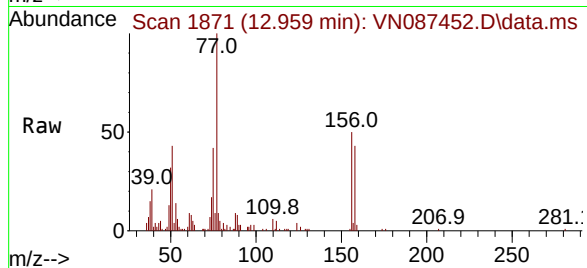
Tgt Ion: 75 Resp: 34102  
Ion Ratio Lower Upper  
75 100  
77 179.8 0.0 385.0





#73  
Bromobenzene  
Concen: 5.331 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

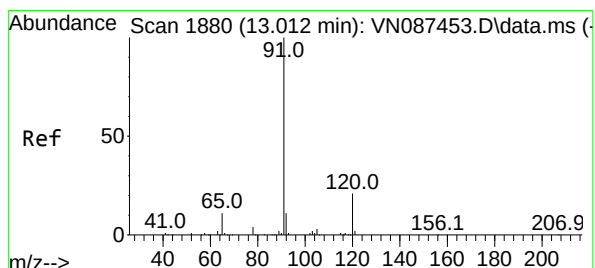
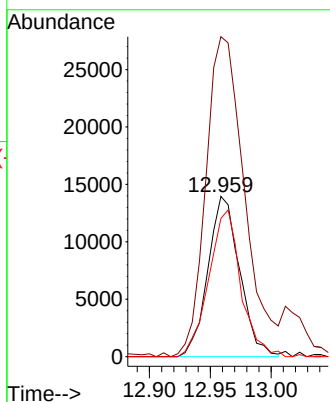
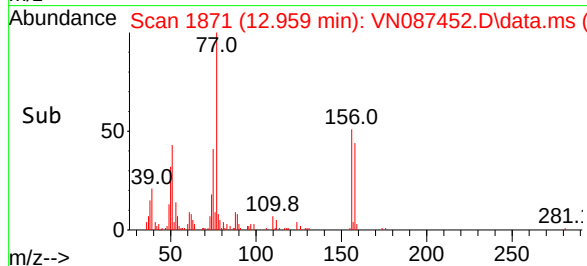
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



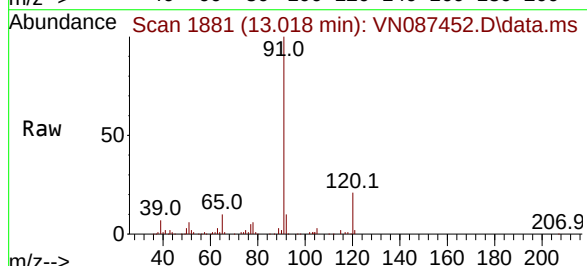
Tgt Ion: 156 Resp: 25284  
Ion Ratio Lower Upper  
156 100  
77 242.5 0.0 506.6  
158 92.3 0.0 193.6

Manual Integrations  
APPROVED

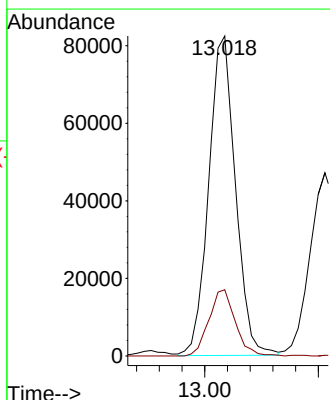
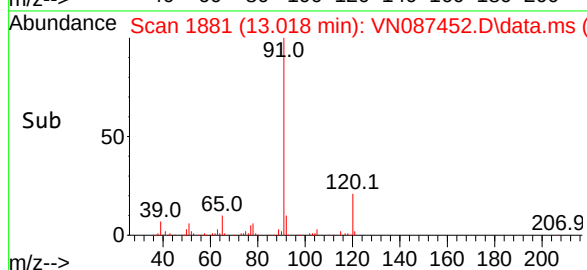
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

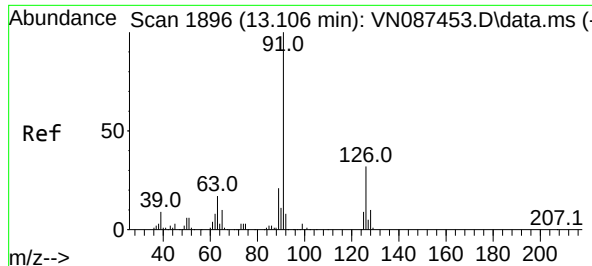


#74  
n-propylbenzene  
Concen: 5.275 ug/l  
RT: 13.018 min Scan# 1881  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37



Tgt Ion: 91 Resp: 134786  
Ion Ratio Lower Upper  
91 100  
120 20.4 0.0 41.8





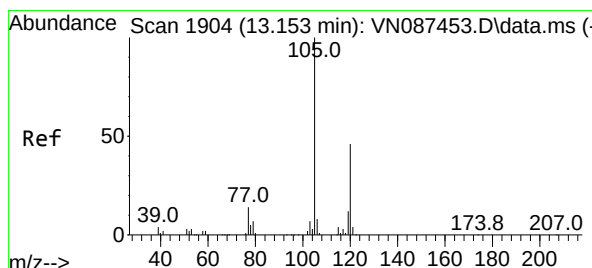
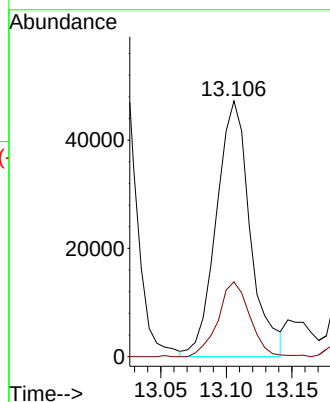
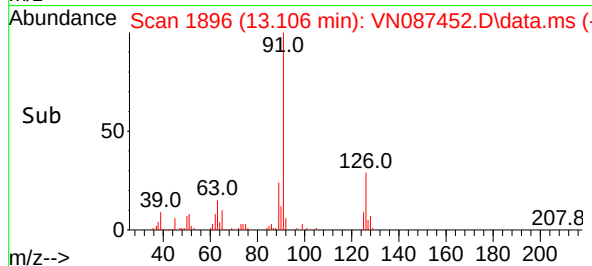
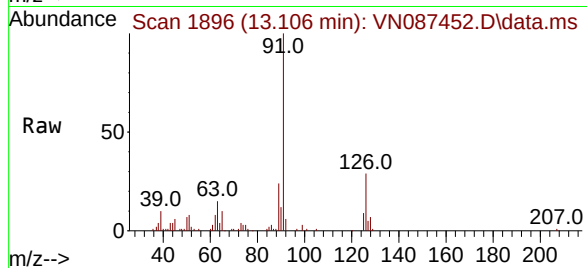
#75  
2-Chlorotoluene  
Concen: 5.397 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 91 Resp: 8482  
Ion Ratio Lower Upper  
91 100  
126 27.5 0.0 60.4

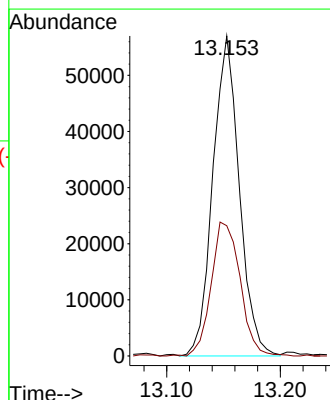
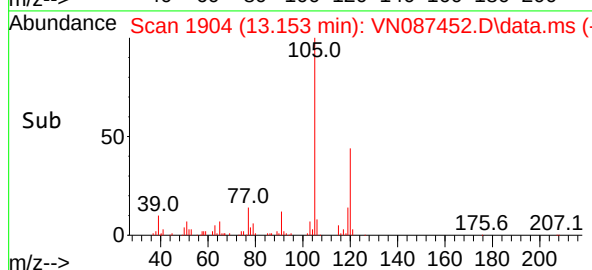
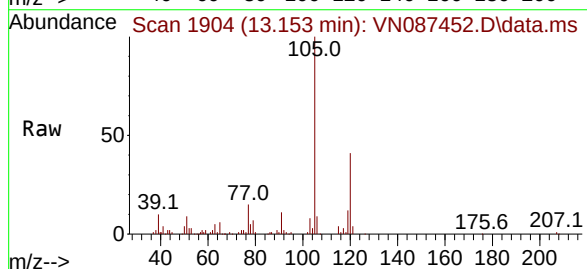
Manual Integrations  
APPROVED

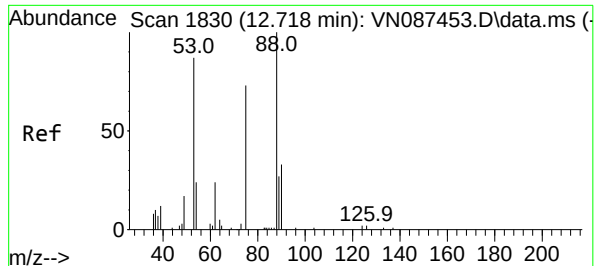
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 5.259 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:105 Resp: 92128  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 4.189 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 1035

Ion Ratio Lower Upper

75 100

53 92.1 59.0 176.8

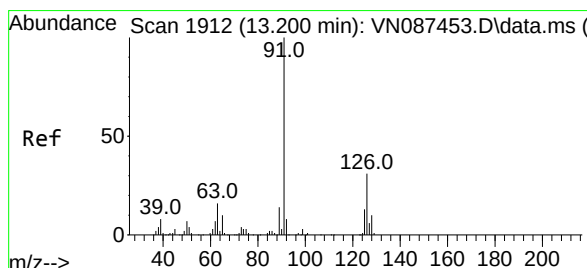
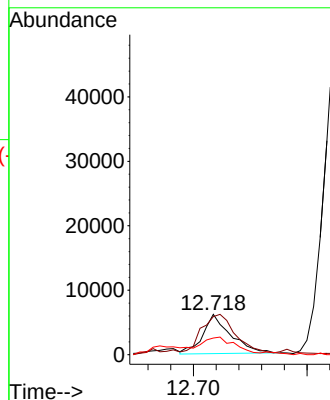
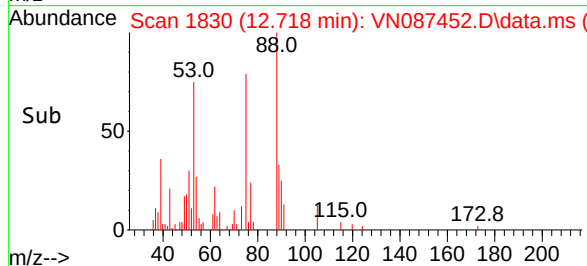
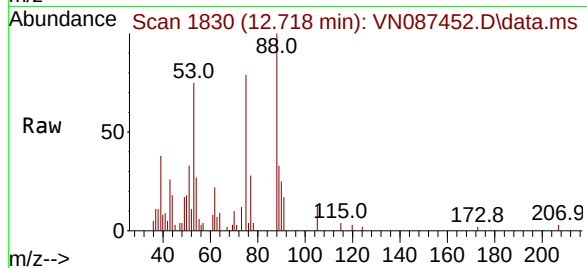
89 35.9 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 5.255 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. 0.000 min

Lab File: VN087452.D

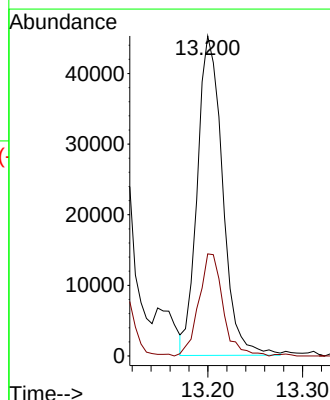
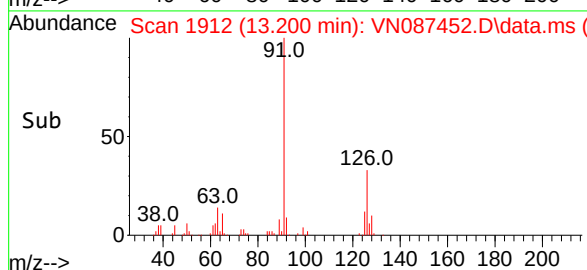
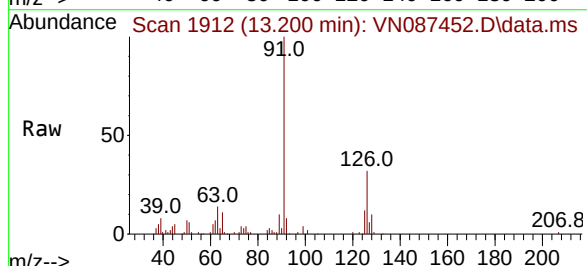
Acq: 05 Aug 2025 13:37

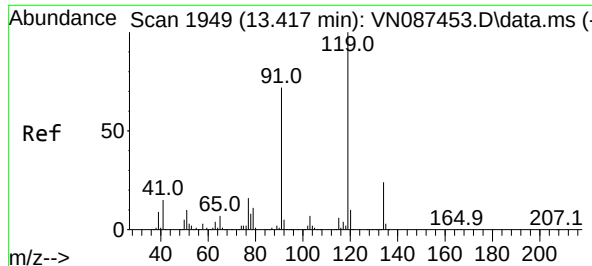
Tgt Ion: 91 Resp: 83697

Ion Ratio Lower Upper

91 100

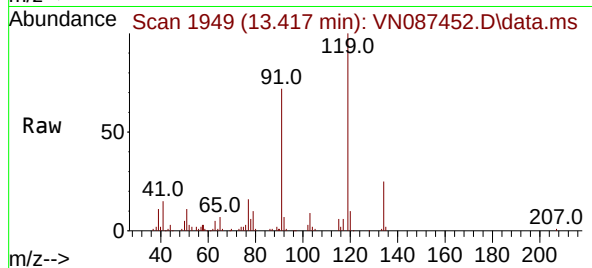
126 30.4 0.0 63.2





#79  
tert-butylbenzene  
Concen: 5.277 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

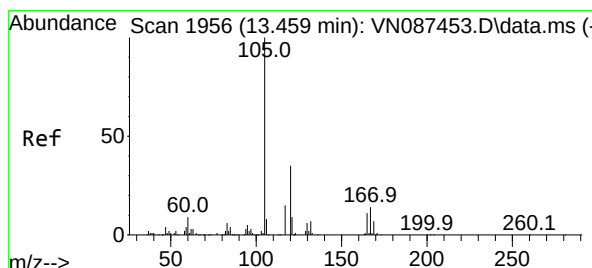
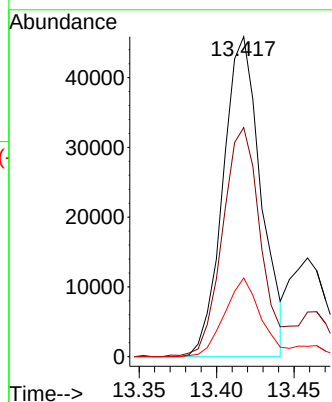
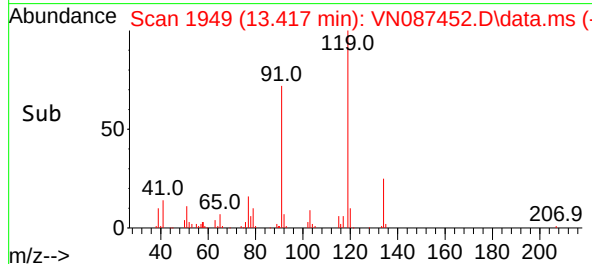
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:119 Resp: 77933  
Ion Ratio Lower Upper  
119 100  
91 71.2 0.0 141.6  
134 23.7 0.0 45.6

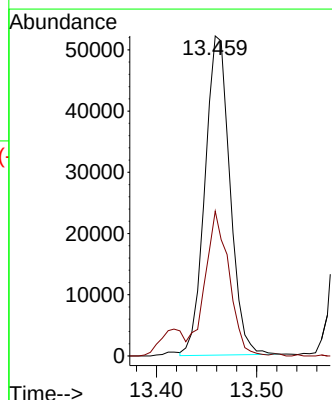
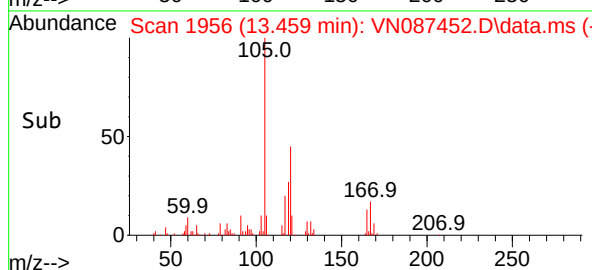
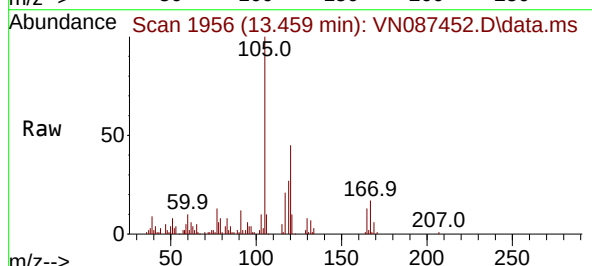
Manual Integrations  
APPROVED

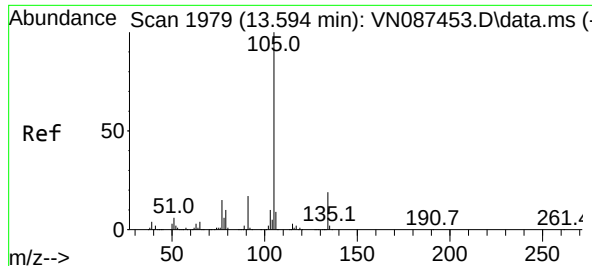
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 5.159 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

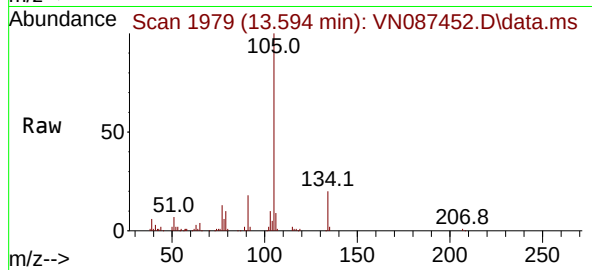
Tgt Ion:105 Resp: 90309  
Ion Ratio Lower Upper  
105 100  
120 43.9 0.0 87.2





#81  
sec-Butylbenzene  
Concen: 5.259 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

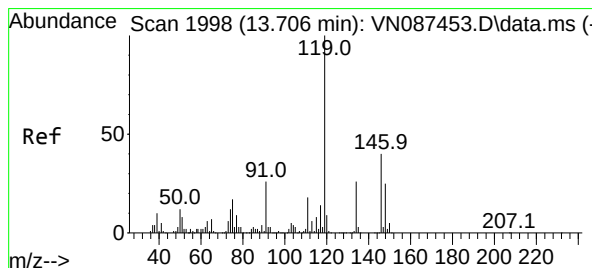
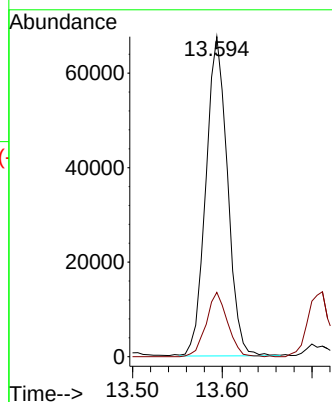
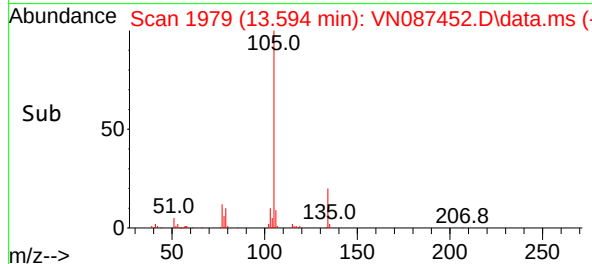
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:105 Resp: 11307  
Ion Ratio Lower Upper  
105 100  
134 19.9 0.0 37.6

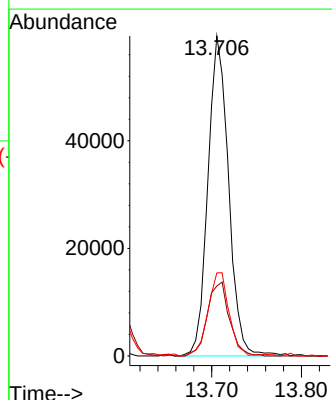
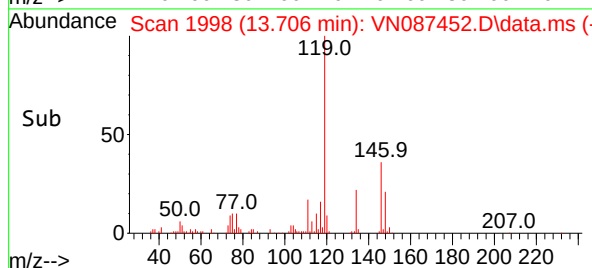
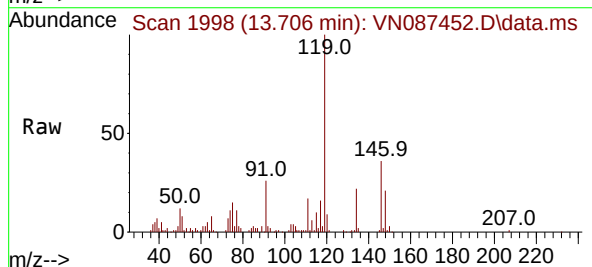
Manual Integrations  
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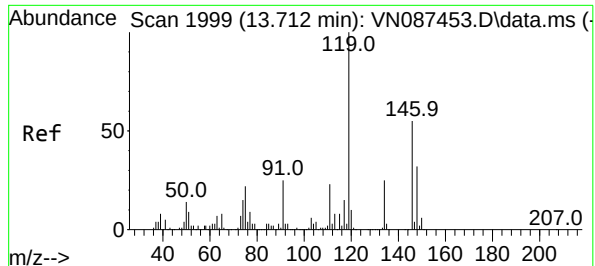
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#82  
p-Isopropyltoluene  
Concen: 5.329 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

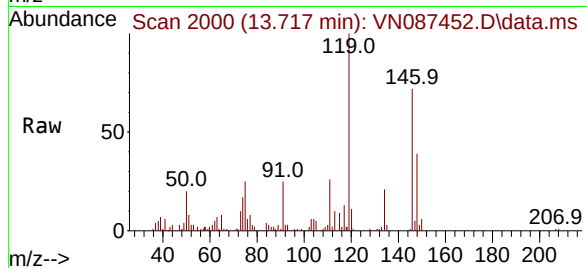
Tgt Ion:119 Resp: 95127  
Ion Ratio Lower Upper  
119 100  
134 24.7 0.0 51.4  
91 26.4 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 5.226 ug/l  
RT: 13.717 min Scan# 2000  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

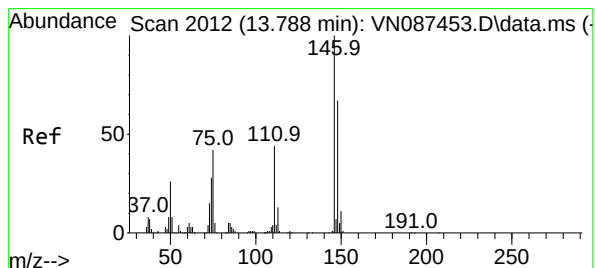
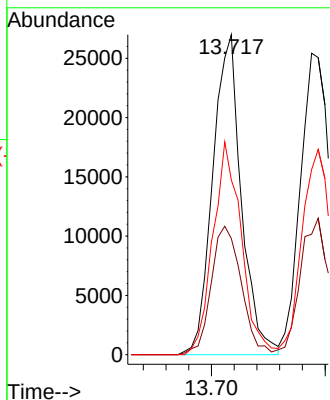
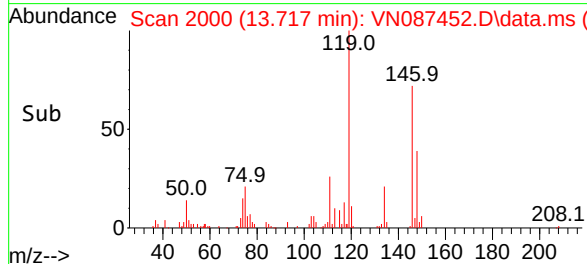
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion:146 Resp: 47197  
Ion Ratio Lower Upper  
146 100  
111 42.2 21.9 65.5  
148 66.0 31.3 93.9

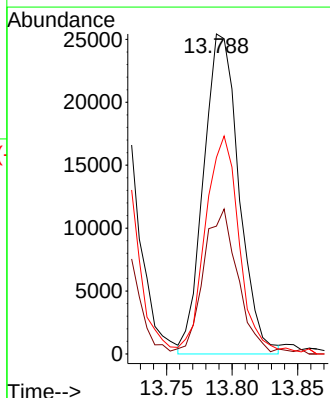
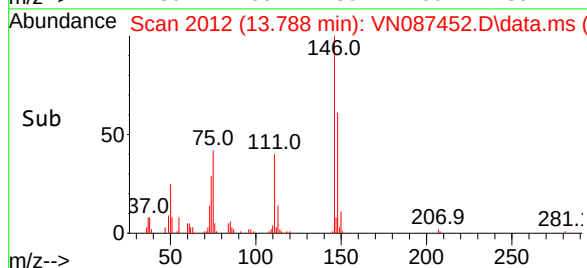
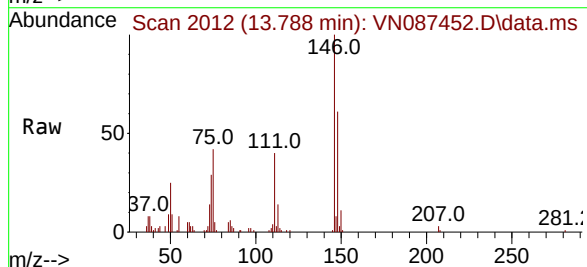
Manual Integrations  
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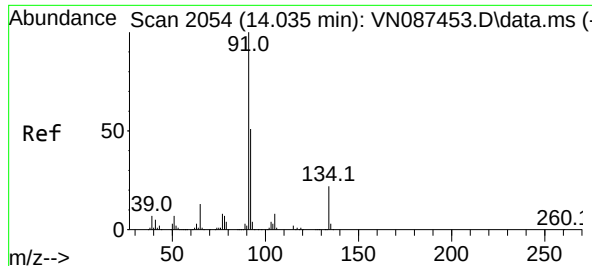
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#84  
1,4-Dichlorobenzene  
Concen: 5.216 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:146 Resp: 47756  
Ion Ratio Lower Upper  
146 100  
111 43.9 21.1 63.1  
148 65.4 31.4 94.3





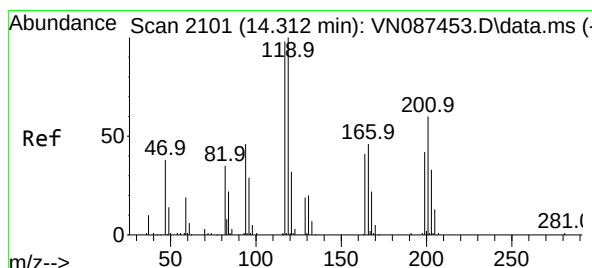
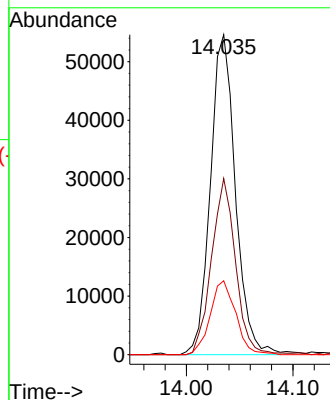
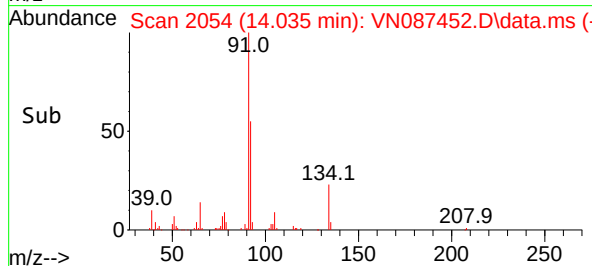
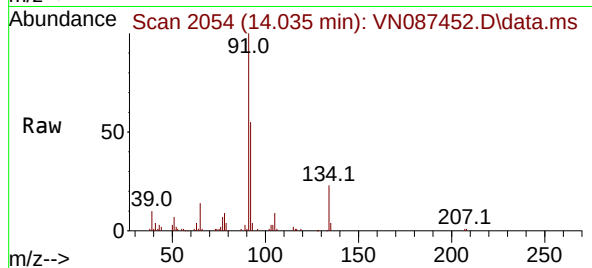
#85  
n-Butylbenzene  
Concen: 5.096 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

| Tgt Ion:  | 91    | Resp: | 89004 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 52.7  | 0.0   | 106.6 |
| 134       | 23.7  | 0.0   | 44.4  |

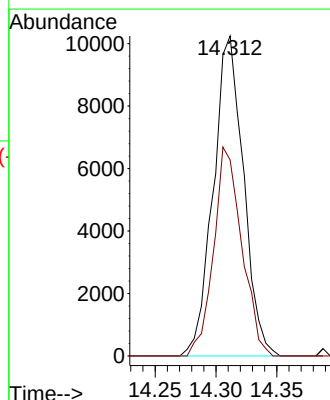
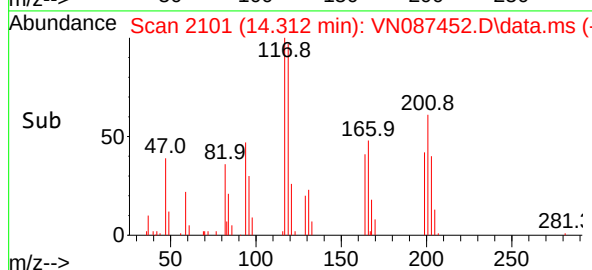
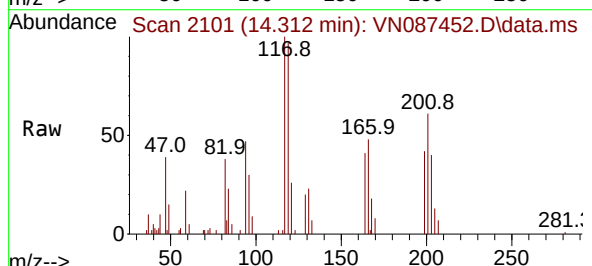
Manual Integrations  
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Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

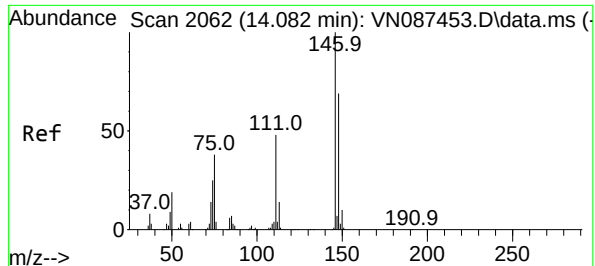


#86  
Hexachloroethane  
Concen: 5.072 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

| Tgt Ion:  | 117   | Resp: | 17680 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 60.8  | 29.1  | 87.4  |







#87

1,2-Dichlorobenzene

Concen: 5.087 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

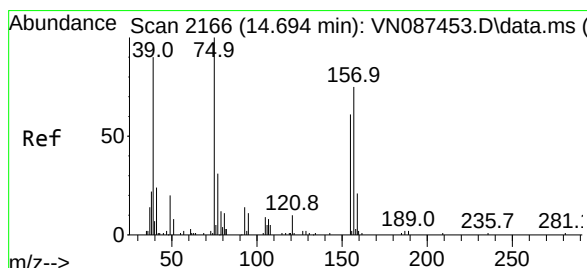
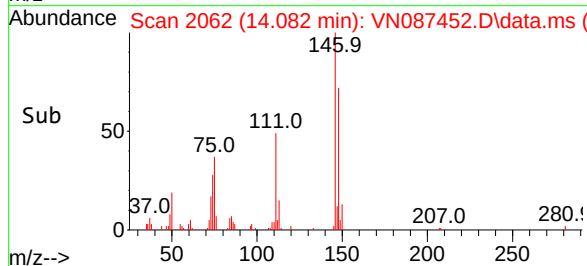
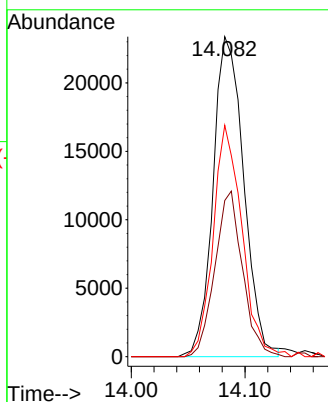
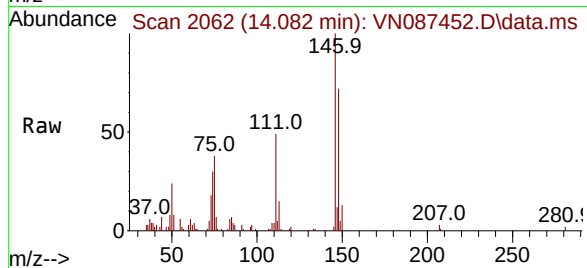
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 4385 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 46.7  | 22.9  | 68.7 |
| 148       | 67.8  | 31.6  | 94.7 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 5.257 ug/l

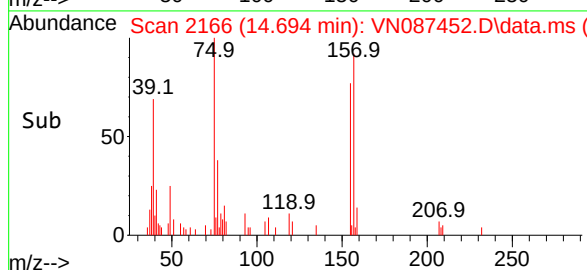
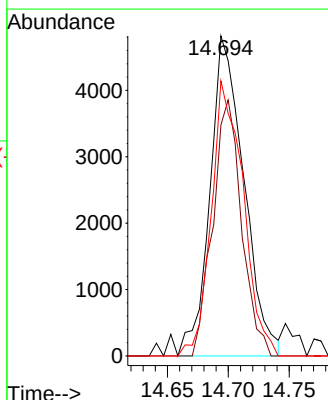
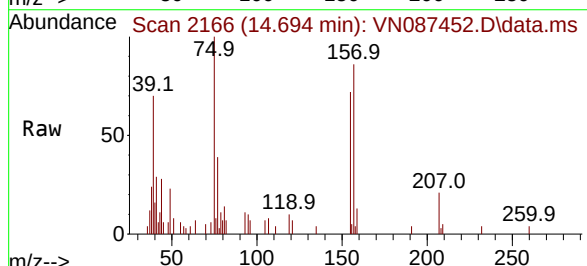
RT: 14.694 min Scan# 2166

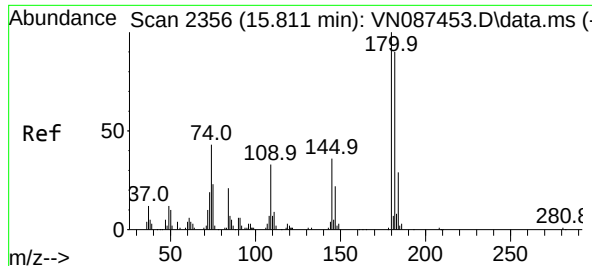
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 9336 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 155       | 68.1  | 55.7  | 83.5 |
| 157       | 80.9  | 65.8  | 98.6 |





#89

1,2,4-Trichlorobenzene

Concen: 5.188 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

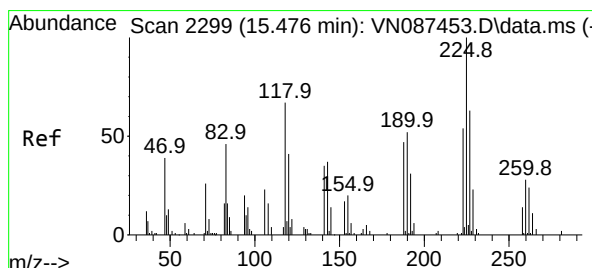
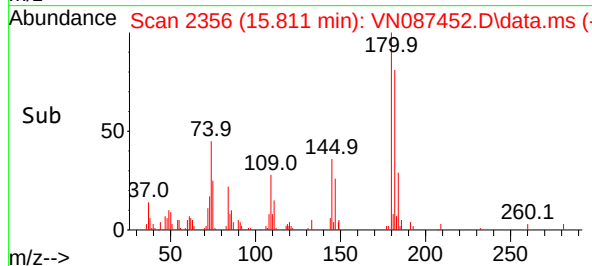
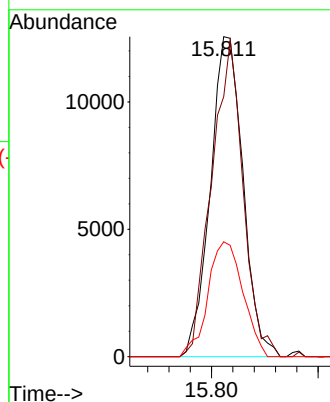
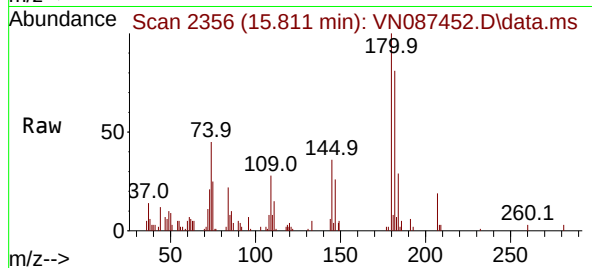
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 26729 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.0  | 75.0  | 112.4 |
| 145       | 38.5  | 28.6  | 43.0  |

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 5.976 ug/l

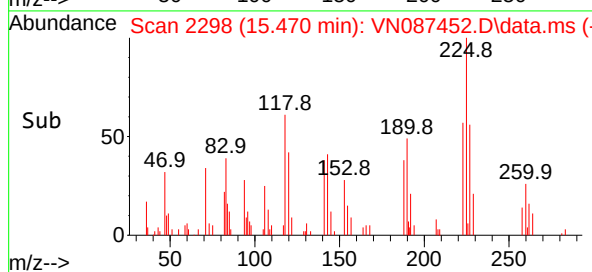
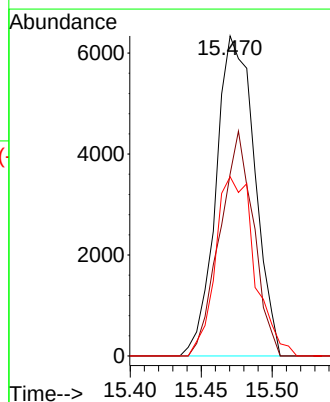
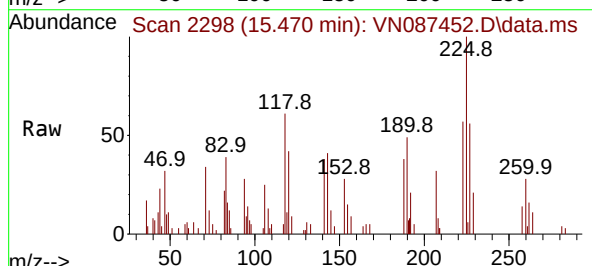
RT: 15.470 min Scan# 2298

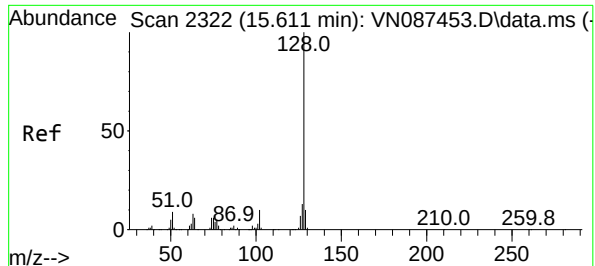
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

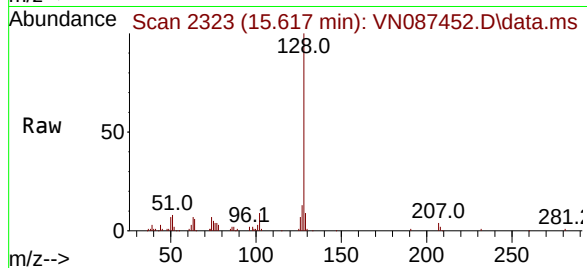
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 11972 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 61.3  | 0.0   | 116.0 |
| 227       | 36.6  | 0.0   | 127.0 |





#91  
Naphthalene  
Concen: 4.971 ug/l  
RT: 15.617 min Scan# 2322  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

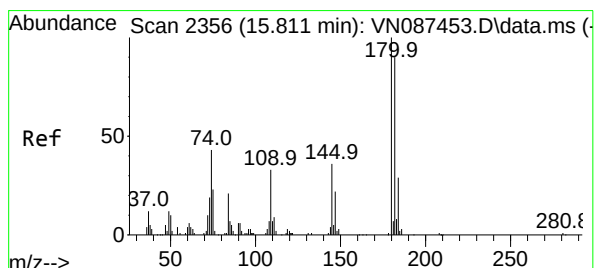
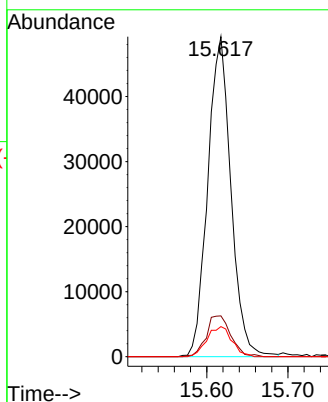
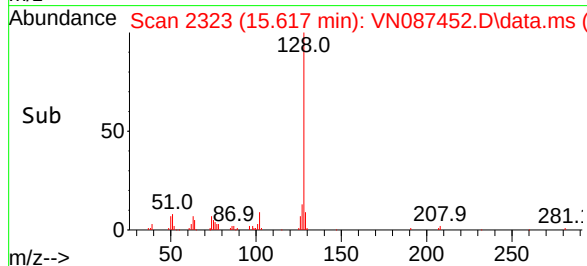
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



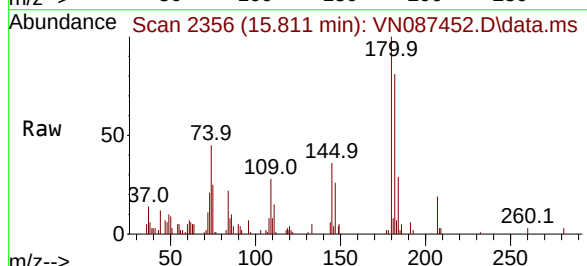
Tgt Ion:128 Resp: 97640  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.2 15.4  
129 10.1 8.9 13.3

Manual Integrations  
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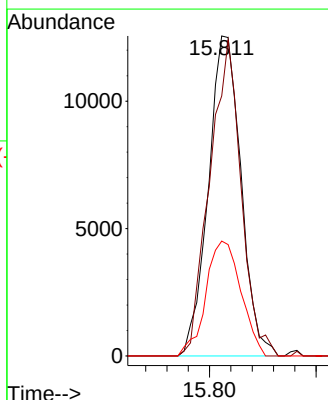
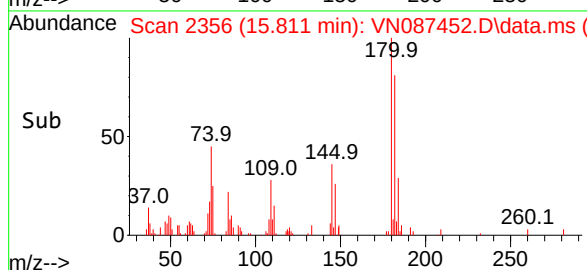
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 5.188 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37



Tgt Ion:180 Resp: 26729  
Ion Ratio Lower Upper  
180 100  
182 95.0 0.0 187.4  
145 38.5 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087453.D  
 Acq On : 05 Aug 2025 13:58  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:27:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 64218               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 367115              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 327914              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 182238              | 30.767  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 102.567% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 170429              | 30.201  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 100.667% |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 453121              | 30.032  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 100.100% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 88427               | 21.090  | ug/l   | 100      |
| 3) Chloromethane             | 2.383          | 50   | 92684               | 21.546  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.542          | 62   | 97984               | 21.476  | ug/l   | 100      |
| 5) Bromomethane              | 2.983          | 94   | 49674               | 20.114  | ug/l   | 100      |
| 6) Chloroethane              | 3.142          | 64   | 61674               | 20.963  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 137336              | 20.915  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.965          | 74   | 56555               | 20.674  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 68121               | 20.344  | ug/l   | 100      |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 74078               | 21.062  | ug/l   | 100      |
| 11) Methyl Iodide            | 4.589          | 142  | 46084m              | 16.723  | ug/l   |          |
| 12) Methyl Acetate           | 5.018          | 43   | 132440              | 20.405  | ug/l   | 100      |
| 13) Acrolein                 | 4.171          | 56   | 99154               | 100.048 | ug/l   | 99       |
| 14) Acrylonitrile            | 5.712          | 53   | 290627              | 102.544 | ug/l   | 100      |
| 15) Acetone                  | 4.418          | 58   | 89398               | 110.396 | ug/l   | 100      |
| 16) Carbon Disulfide         | 4.700          | 76   | 221586              | 20.310  | ug/l   | 100      |
| 17) Allyl chloride           | 5.012          | 41   | 144593              | 20.170  | ug/l   | 100      |
| 18) Methylene Chloride       | 5.271          | 84   | 92808m              | 20.501  | ug/l   |          |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 86216               | 20.613  | ug/l   | 100      |
| 20) Diisopropyl ether        | 6.665          | 45   | 334922              | 20.517  | ug/l   | 100      |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 177532              | 21.030  | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 106998              | 20.791  | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 121824              | 101.156 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 327775              | 20.452  | ug/l   | 100      |
| 25) Chloroform               | 7.947          | 83   | 180797              | 20.518  | ug/l   | 100      |
| 26) Cyclohexane              | 8.241          | 56   | 142519              | 21.086  | ug/l   | 100      |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 120007              | 20.042  | ug/l   | 100      |
| 30) 2-Butanone               | 7.471          | 43   | 446235              | 101.104 | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 156255              | 20.233  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 151297              | 19.812  | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 127325              | 20.070  | ug/l   | 100      |
| 34) Benzene                  | 8.588          | 78   | 377003              | 19.946  | ug/l   | 100      |
| 35) Methacrylonitrile        | 7.765          | 41   | 97561               | 20.484  | ug/l   | 100      |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 155656              | 20.373  | ug/l   | 100      |
| 37) Trichloroethene          | 9.335          | 130  | 84369               | 20.264  | ug/l   | 100      |
| 38) Methylcyclohexane        | 9.582          | 83   | 139951              | 20.147  | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 98038               | 20.230  | ug/l   | 100      |
| 40) Dibromomethane           | 9.688          | 93   | 73356               | 20.175  | ug/l   | 100      |
| 41) Bromodichloromethane     | 9.871          | 83   | 148435              | 19.646  | ug/l   | 100      |
| 42) Vinyl Acetate            | 6.588          | 43   | 1483194             | 102.044 | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087453.D  
 Acq On : 05 Aug 2025 13:58  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:27:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 170967m  | 20.349  | ug/l  |          |
| 44) Isopropyl Acetate         | 8.677  | 43   | 291509   | 20.169  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 9.677  | 88   | 37910    | 411.437 | ug/l  | 100      |
| 46) Methyl methacrylate       | 9.665  | 41   | 136612   | 20.024  | ug/l  | 100      |
| 47) n-amyl Acetate            | 12.529 | 43   | 138459m  | 19.052  | ug/l  |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 162191   | 19.732  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 162479   | 19.641  | ug/l  | 100      |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 91845    | 19.993  | ug/l  | 100      |
| 51) Ethyl methacrylate        | 10.853 | 69   | 159690   | 19.738  | ug/l  | 100      |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 165895   | 20.044  | ug/l  | 100      |
| 53) Dibromochloromethane      | 11.341 | 129  | 103790   | 19.563  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 97894    | 20.073  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 426876   | 100.225 | ug/l  | 100      |
| 56) Bromoform                 | 12.559 | 173  | 67550    | 19.250  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 876419   | 103.897 | ug/l  | 100      |
| 59) 2-Hexanone                | 11.182 | 43   | 576264   | 100.543 | ug/l  | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 63867    | 19.992  | ug/l  | 100      |
| 62) Toluene                   | 10.612 | 91   | 416382   | 20.573  | ug/l  | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 252716   | 20.321  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 88390    | 20.216  | ug/l  | 100      |
| 66) Ethyl Benzene             | 11.941 | 91   | 462372   | 20.497  | ug/l  | 100      |
| 67) m/p-Xylenes               | 12.047 | 106  | 335952   | 40.573  | ug/l  | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 164778   | 20.228  | ug/l  | 100      |
| 69) Styrene                   | 12.394 | 104  | 283102   | 20.353  | ug/l  | 100      |
| 70) Isopropylbenzene          | 12.670 | 105  | 423292   | 20.453  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 148347   | 20.920  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 123856m  | 16.992  | ug/l  |          |
| 73) Bromobenzene              | 12.959 | 156  | 96161    | 20.043  | ug/l  | 100      |
| 74) n-propylbenzene           | 13.012 | 91   | 526811   | 20.382  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 324478   | 20.409  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 363042   | 20.488  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 47119    | 18.843  | ug/l  | 100      |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 322316   | 20.005  | ug/l  | 100      |
| 79) tert-butylbenzene         | 13.417 | 119  | 305702   | 20.462  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 358349   | 20.238  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 447541   | 20.577  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 369955   | 20.486  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 186482   | 20.412  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 190232   | 20.538  | ug/l  | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 363428   | 20.569  | ug/l  | 100      |
| 86) Hexachloroethane          | 14.312 | 117  | 71198    | 20.189  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 179117   | 20.539  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 37135    | 20.672  | ug/l  | 100      |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 104426   | 20.037  | ug/l  | 100      |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 41238    | 20.349  | ug/l  | 100      |
| 91) Naphthalene               | 15.611 | 128  | 402240   | 20.241  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 104426   | 20.037  | ug/l  | 100      |

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

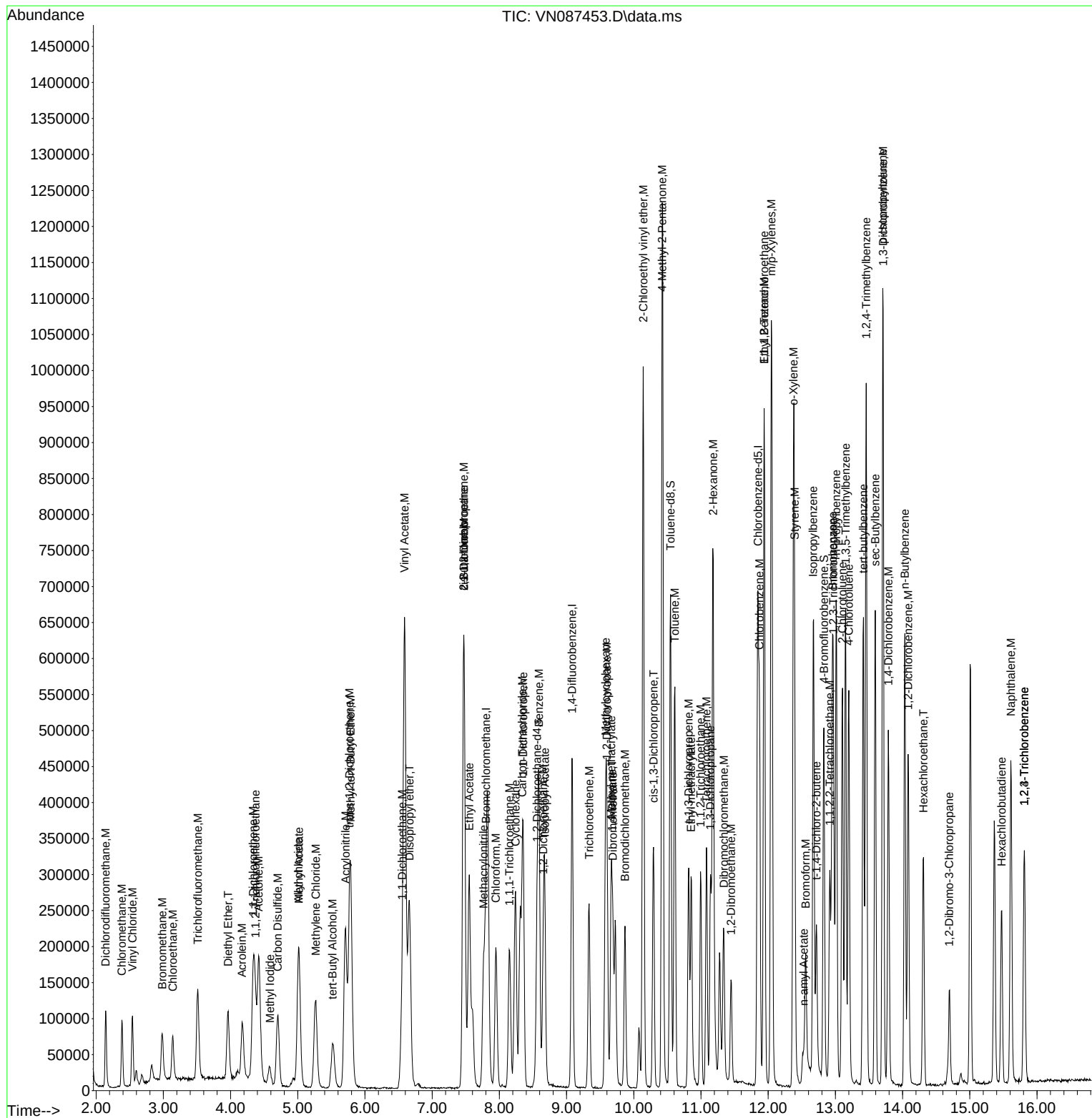
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Data File : VN087453.D  
Acq On : 05 Aug 2025 13:58  
Operator : JC\MD  
Sample : VSTDICCC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

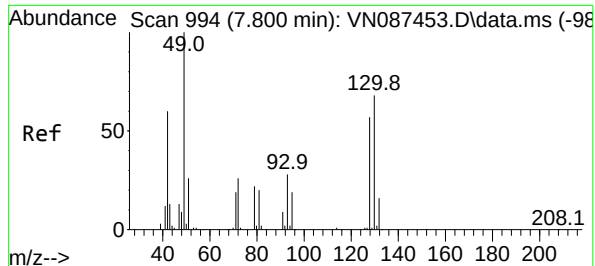
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICCC020

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:27:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration





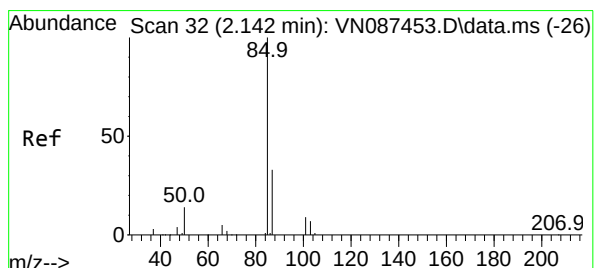
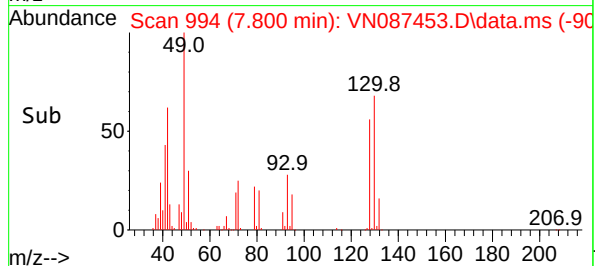
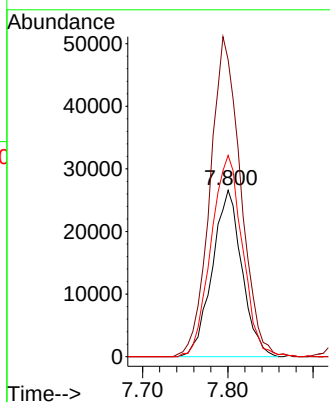
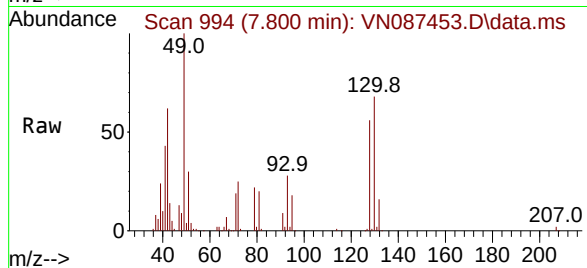
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:128 Resp: 64218  
Ion Ratio Lower Upper  
128 100  
49 197.9 0.0 494.8  
130 128.6 0.0 321.5

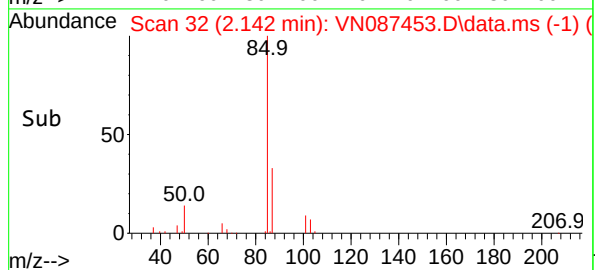
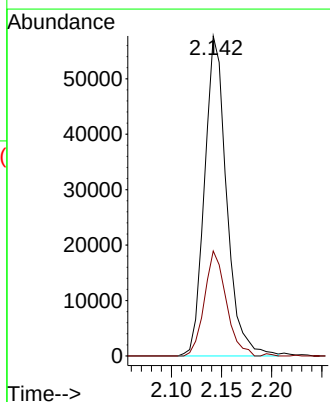
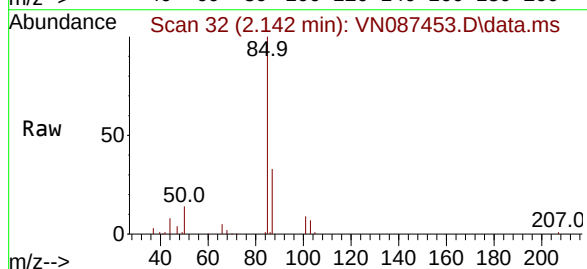
Manual Integrations  
APPROVED

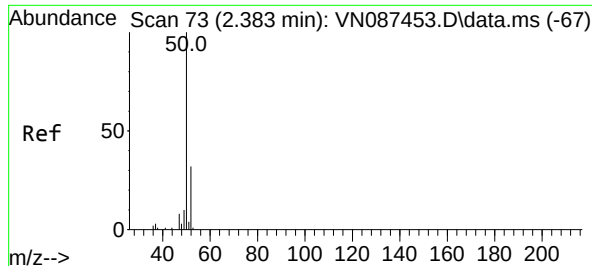
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#2  
Dichlorodifluoromethane  
Concen: 21.090 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

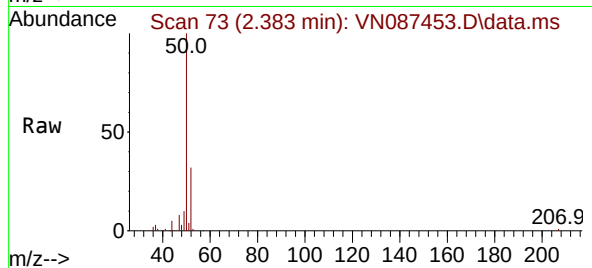
Tgt Ion: 85 Resp: 88427  
Ion Ratio Lower Upper  
85 100  
87 32.8 16.4 49.2





#3  
Chloromethane  
Concen: 21.546 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

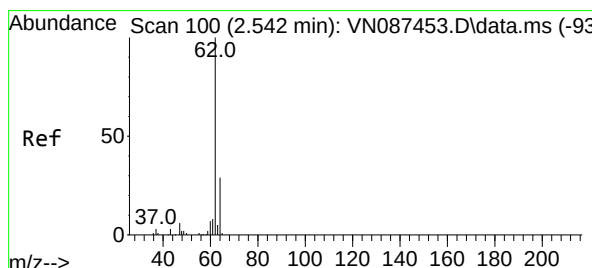
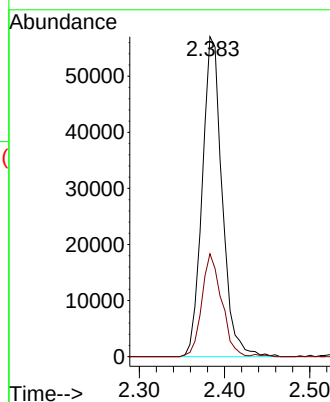
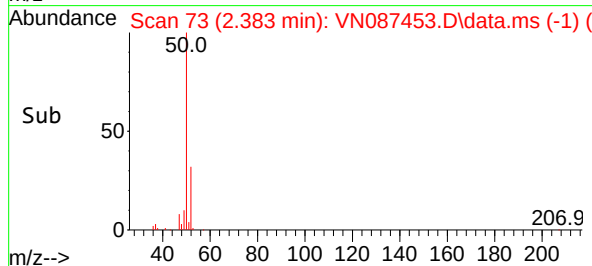
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 50 Resp: 92684  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.8 38.6

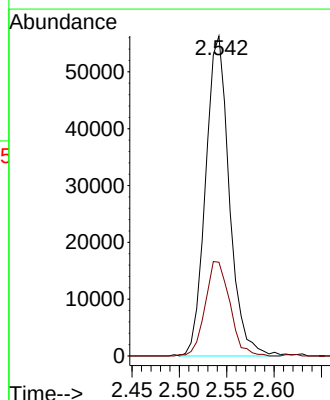
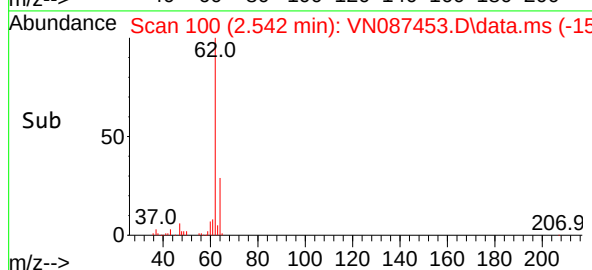
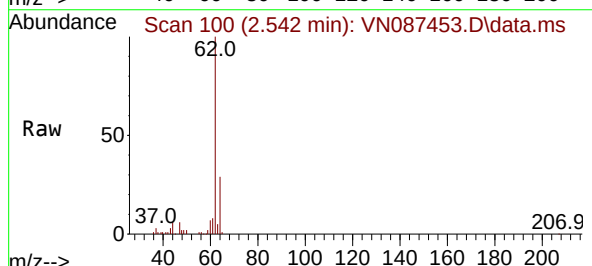
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

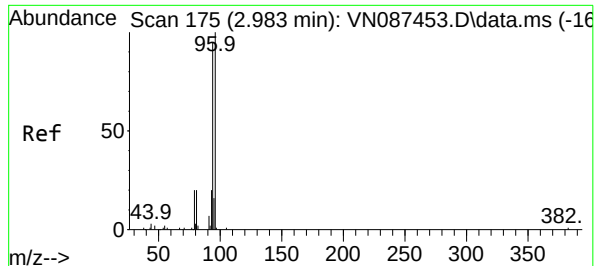


#4  
Vinyl Chloride  
Concen: 21.476 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 62 Resp: 97984  
Ion Ratio Lower Upper  
62 100  
64 29.3 23.4 35.2







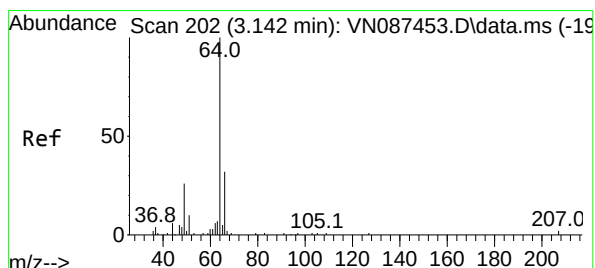
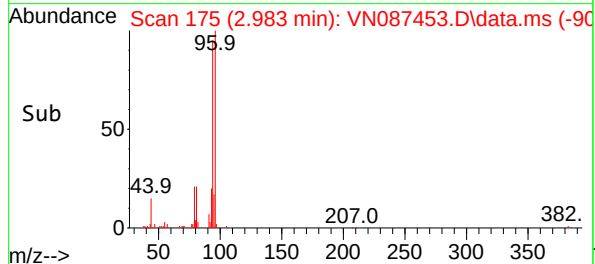
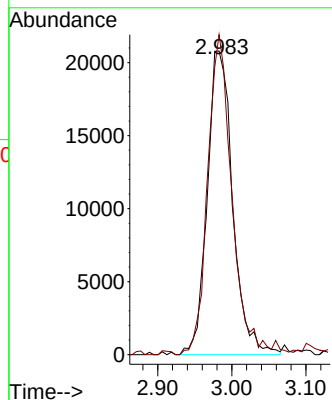
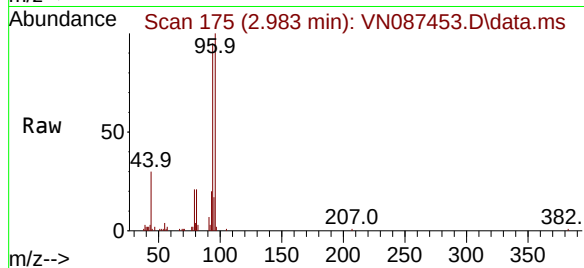
#5  
Bromomethane  
Concen: 20.114 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 94 Resp: 49674  
Ion Ratio Lower Upper  
94 100  
96 105.3 84.2 126.4

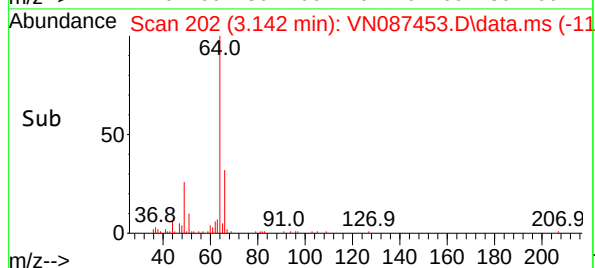
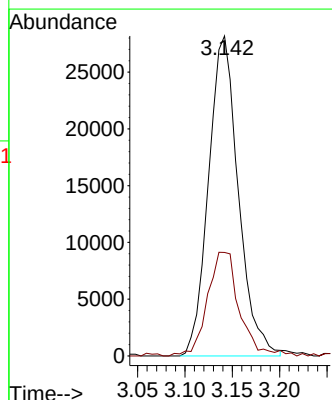
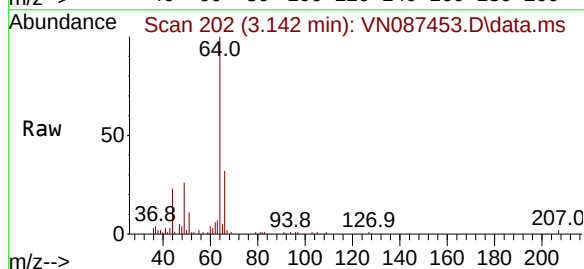
Manual Integrations  
APPROVED

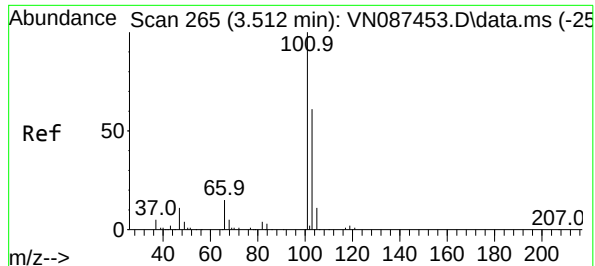
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#6  
Chloroethane  
Concen: 20.963 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 64 Resp: 61674  
Ion Ratio Lower Upper  
64 100  
66 31.7 25.4 38.0





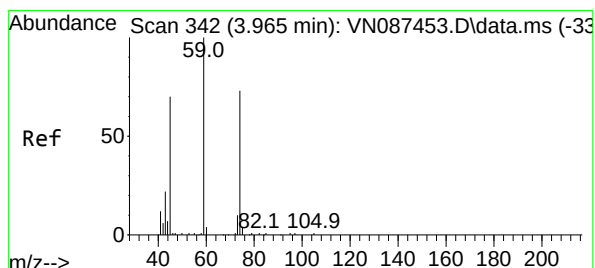
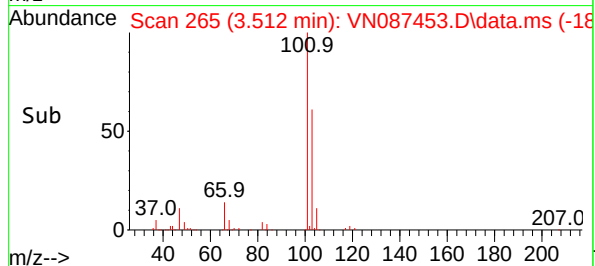
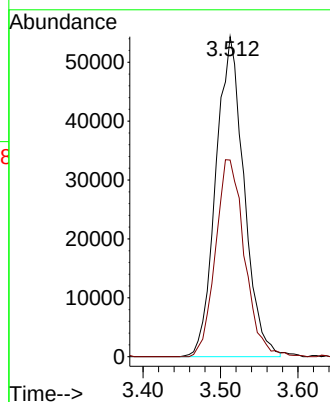
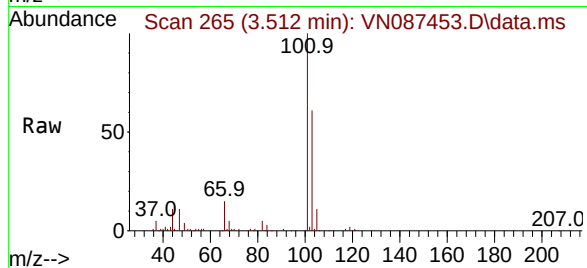
#7  
Trichlorofluoromethane  
Concen: 20.915 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:101 Resp: 137336  
Ion Ratio Lower Upper  
101 100  
103 61.5 49.2 73.8

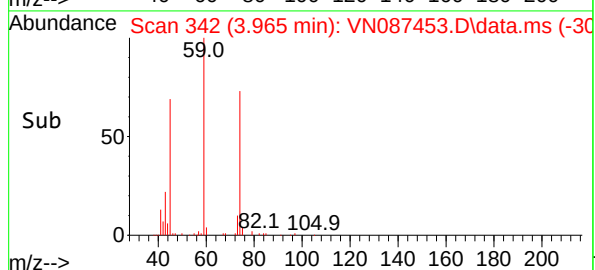
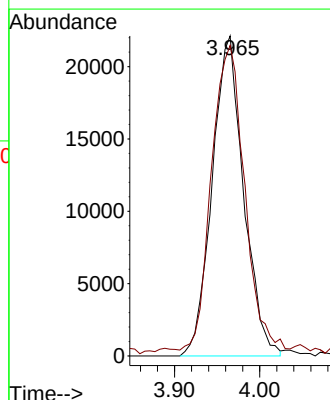
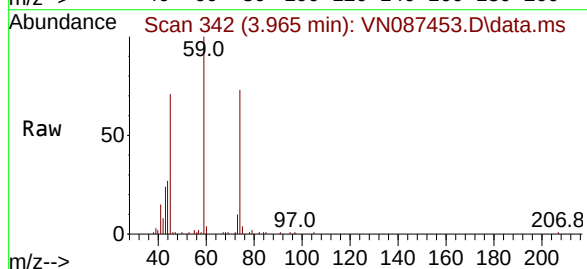
Manual Integrations  
APPROVED

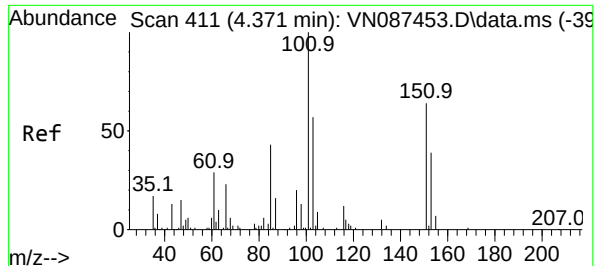
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 20.674 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 74 Resp: 56555  
Ion Ratio Lower Upper  
74 100  
45 100.5 20.1 180.9





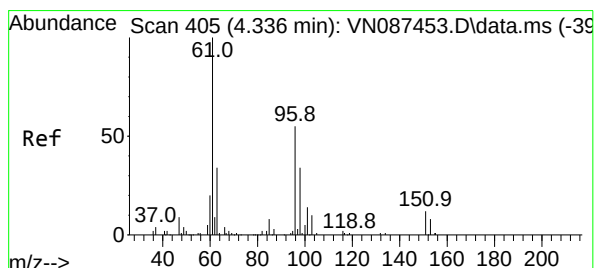
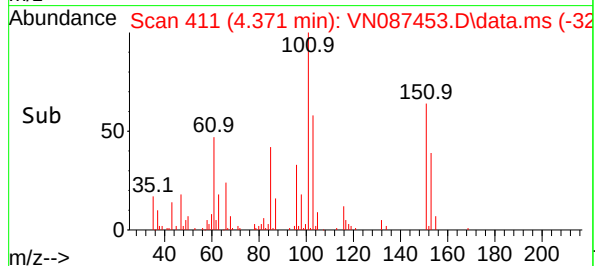
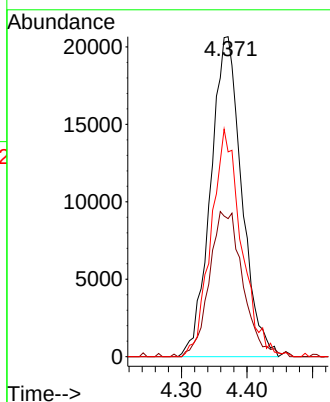
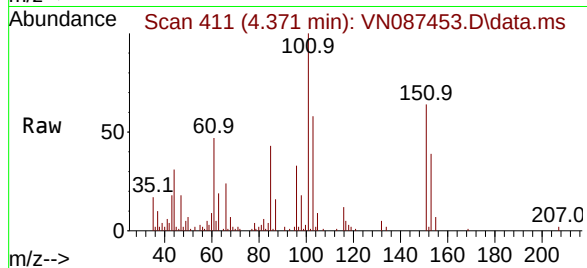
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 20.344 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:101 Resp: 6812  
Ion Ratio Lower Upper  
101 100  
85 28.5 0.0 57.0  
151 67.1 0.0 134.2

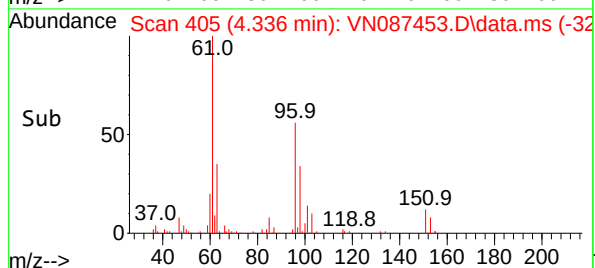
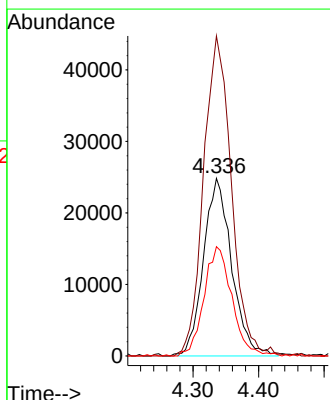
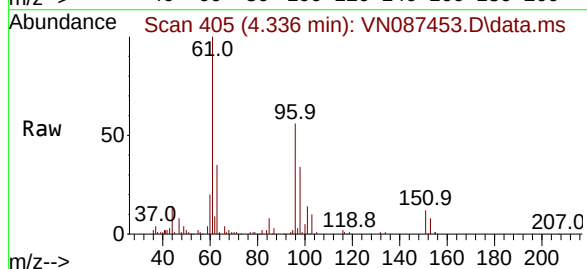
Manual Integrations  
APPROVED

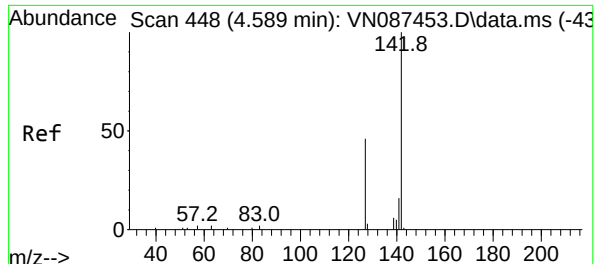
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#10  
1,1-Dichloroethene  
Concen: 21.062 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 96 Resp: 74078  
Ion Ratio Lower Upper  
96 100  
61 180.3 144.2 216.4  
98 62.1 49.7 74.5





#11

Methyl Iodide

Concen: 16.723 ug/l m

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

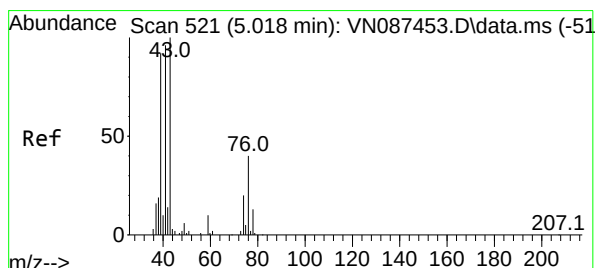
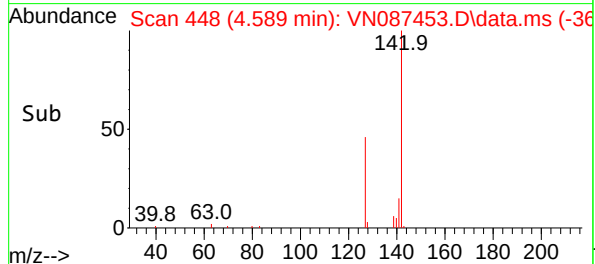
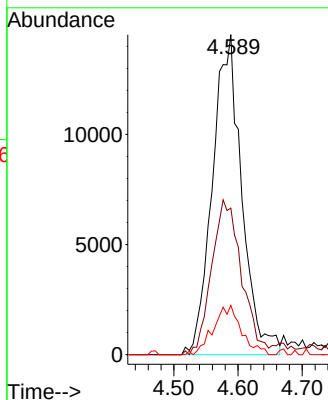
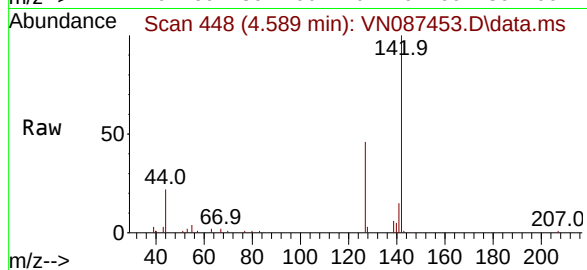
Tgt Ion:142 Resp: 46084

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 127 | 45.8  | 22.9  | 68.7  |
| 141 | 15.4  | 7.7   | 23.1  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 20.405 ug/l

RT: 5.018 min Scan# 521

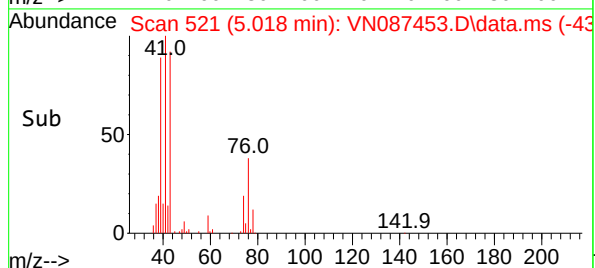
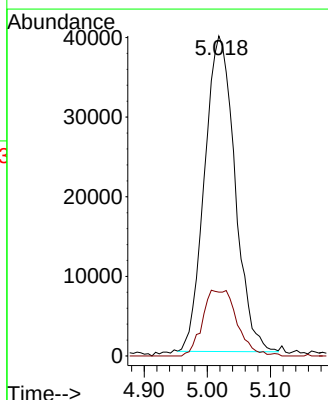
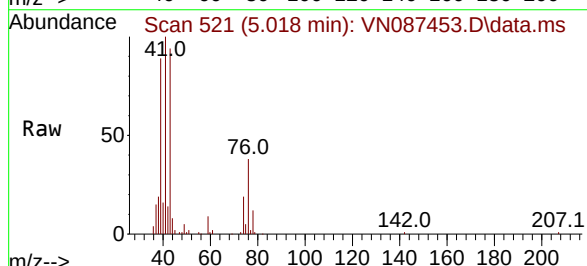
Delta R.T. 0.000 min

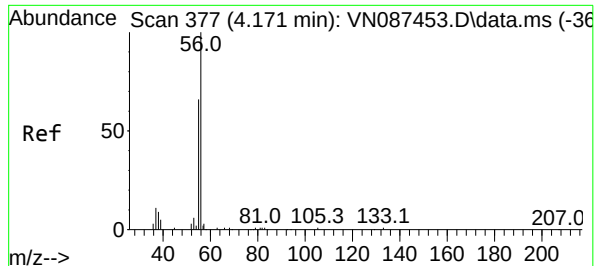
Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 132440

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 74  | 20.0  | 16.0  | 24.0  |





#13

Acrolein

Concen: 100.048 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 99154

Ion Ratio Lower Upper

56 100

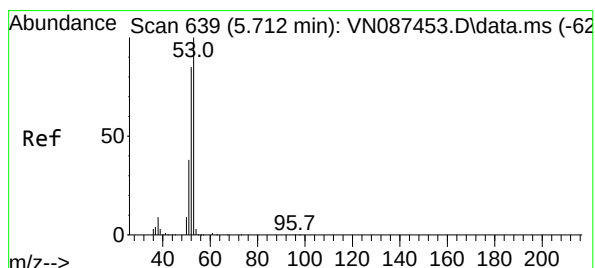
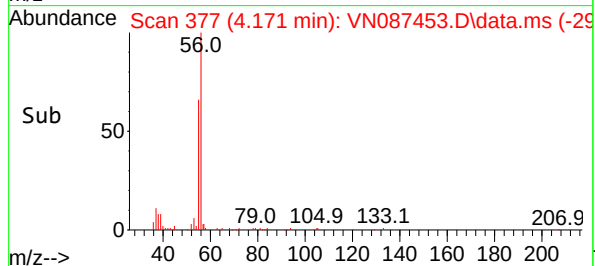
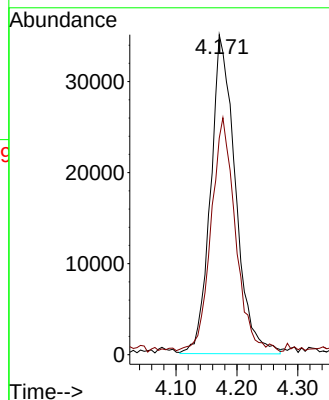
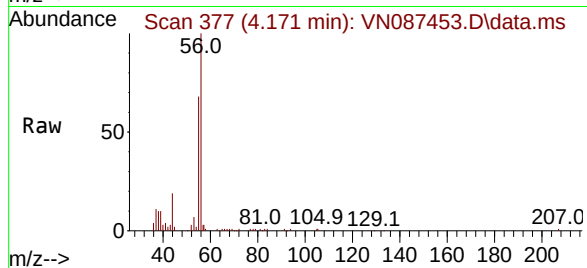
55 72.1 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 102.544 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

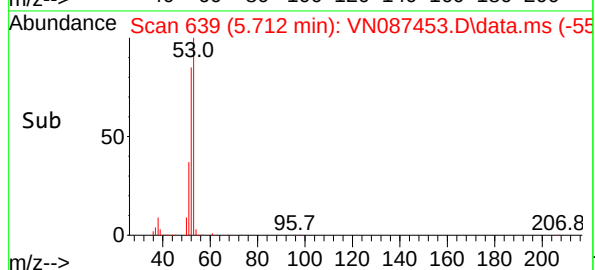
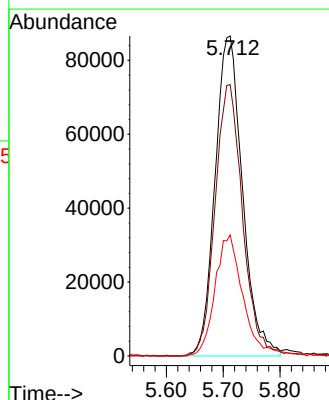
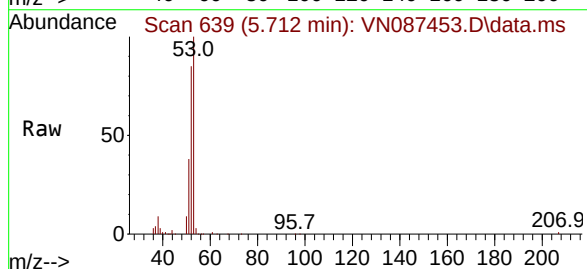
Tgt Ion: 53 Resp: 290627

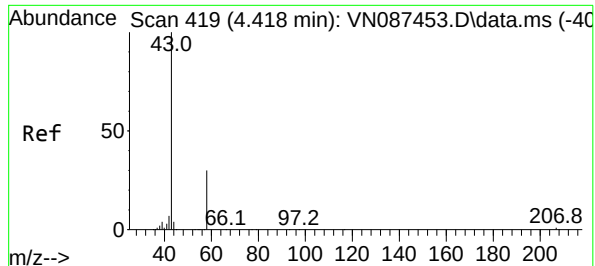
Ion Ratio Lower Upper

53 100

52 84.8 42.4 127.2

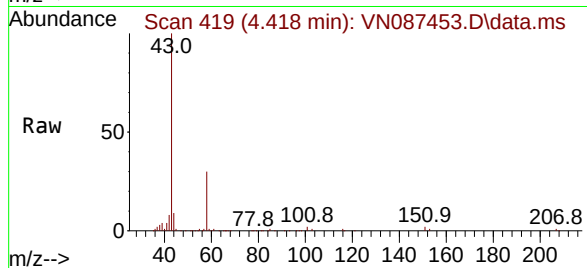
51 37.0 18.5 55.5





#15  
Acetone  
Concen: 110.396 ug/l  
RT: 4.418 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

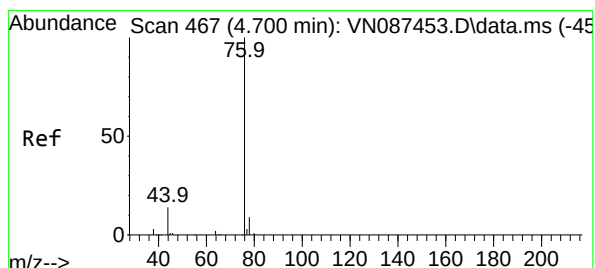
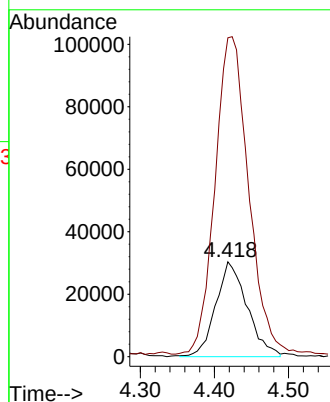
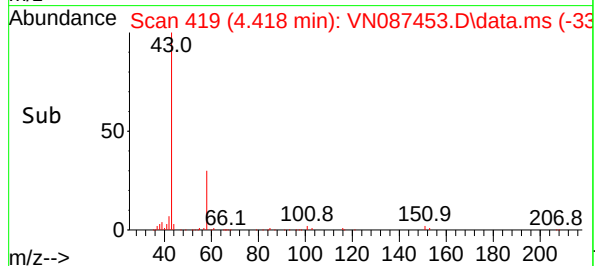
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 58 Resp: 89398  
Ion Ratio Lower Upper  
58 100  
43 336.1 268.9 403.3

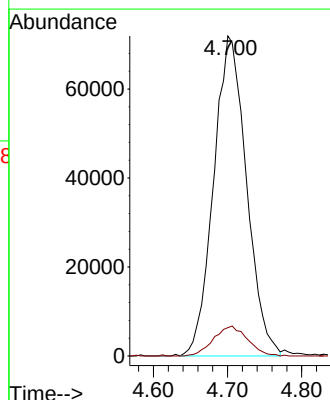
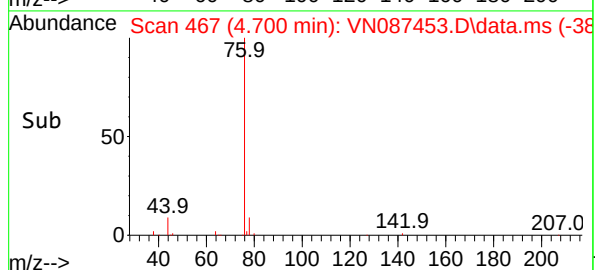
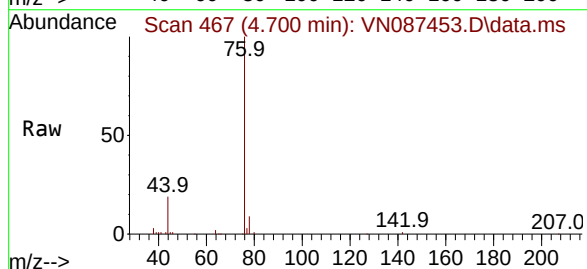
Manual Integrations  
APPROVED

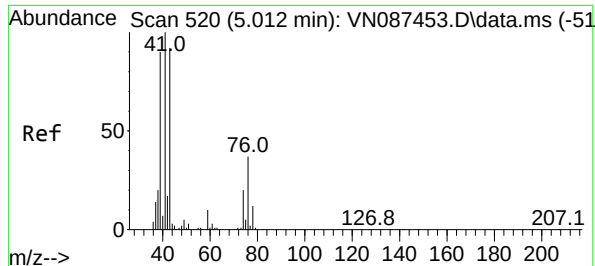
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#16  
Carbon Disulfide  
Concen: 20.310 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 221586  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 20.170 ug/l

RT: 5.012 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 14459

Ion Ratio Lower Upper

41 100

39 84.8 42.4 127.2

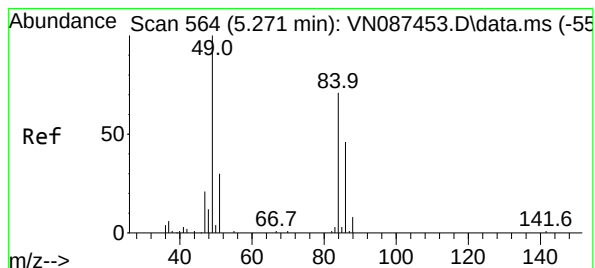
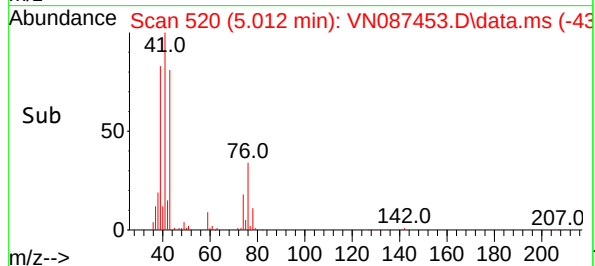
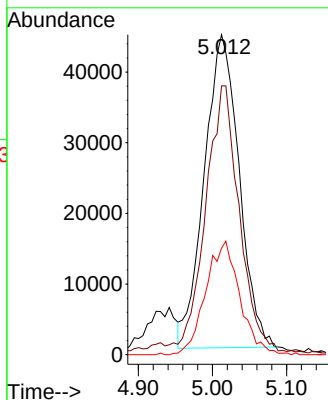
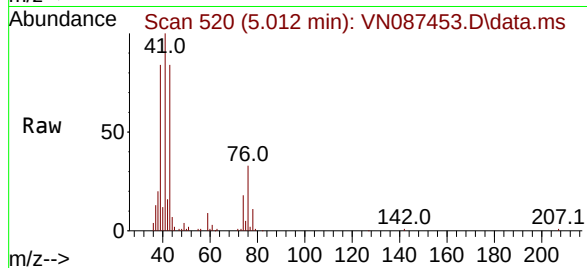
76 33.7 16.9 50.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 20.501 ug/l m

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion: 84 Resp: 92808

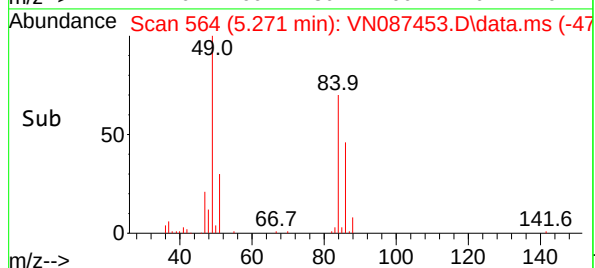
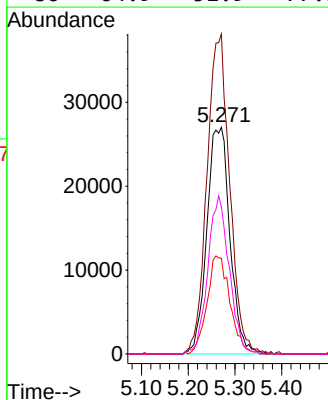
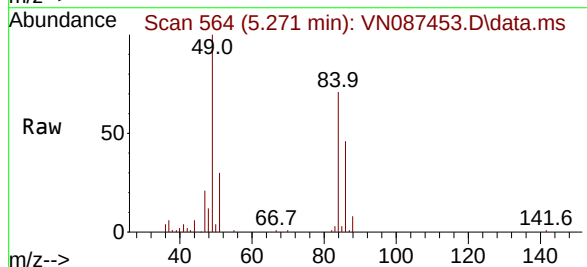
Ion Ratio Lower Upper

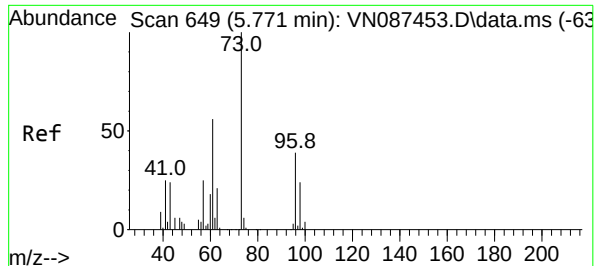
84 100

49 141.1 112.9 169.3

51 42.3 33.8 50.8

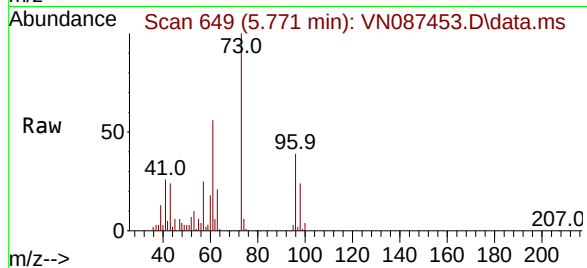
86 64.9 51.9 77.9





#19  
trans-1,2-Dichloroethene  
Concen: 20.613 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

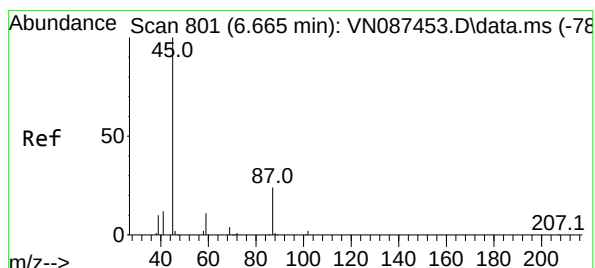
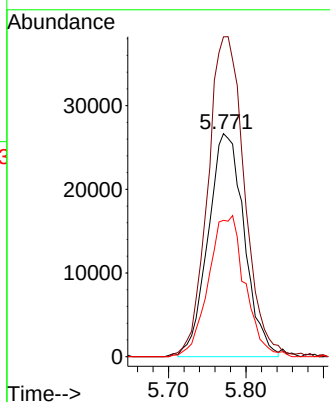
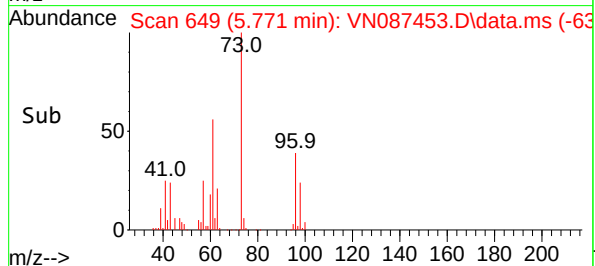
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 96 Resp: 86210  
Ion Ratio Lower Upper  
96 100  
61 142.8 114.2 171.4  
98 60.9 48.7 73.1

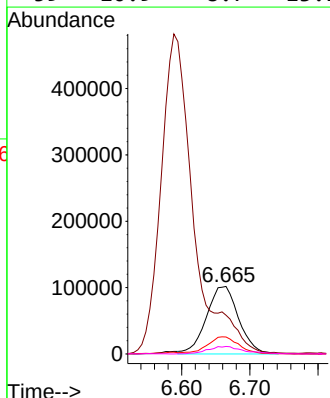
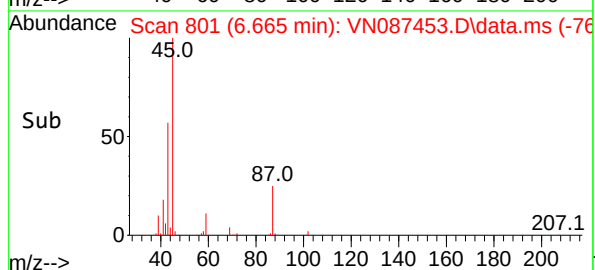
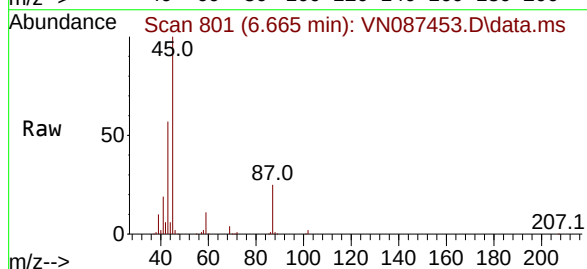
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

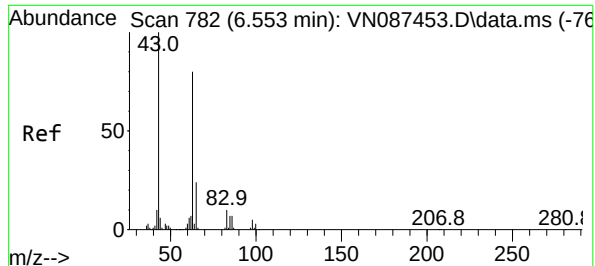


#20  
Diisopropyl ether  
Concen: 20.517 ug/l  
RT: 6.665 min Scan# 801  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 45 Resp: 334922  
Ion Ratio Lower Upper  
45 100  
43 55.9 44.7 67.1  
87 25.2 20.2 30.2  
59 10.9 8.7 13.1







#21

1,1-Dichloroethane

Concen: 21.030 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 17753

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.0

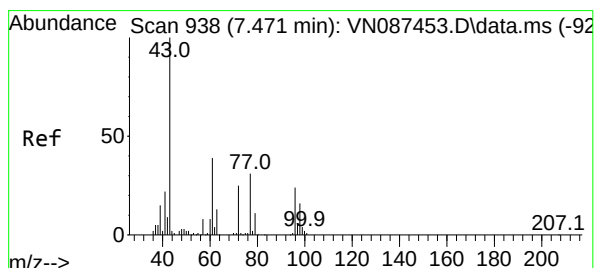
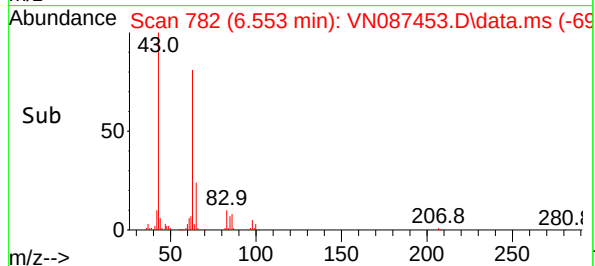
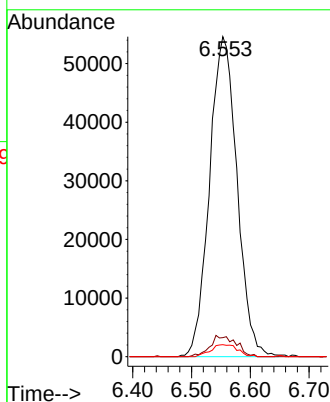
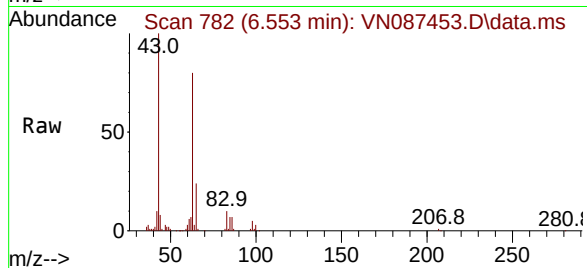
100 3.8 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 20.791 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

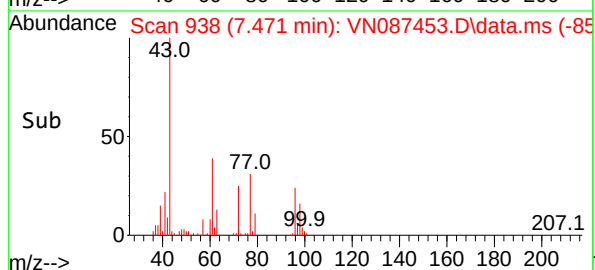
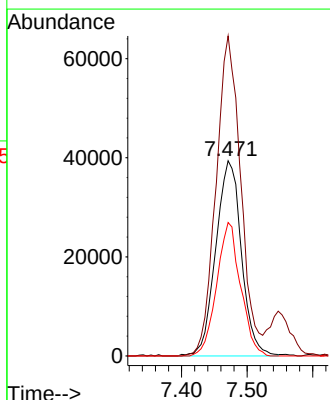
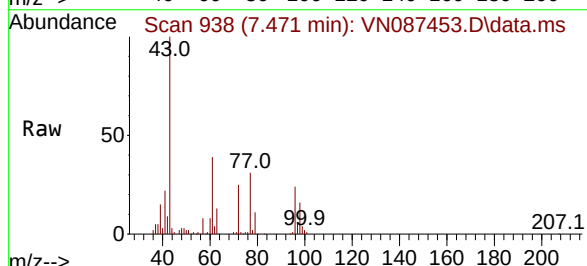
Tgt Ion: 96 Resp: 106998

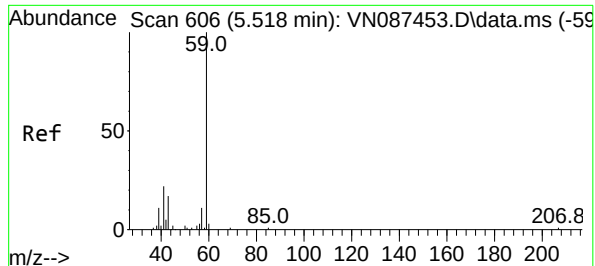
Ion Ratio Lower Upper

96 100

61 158.3 126.6 190.0

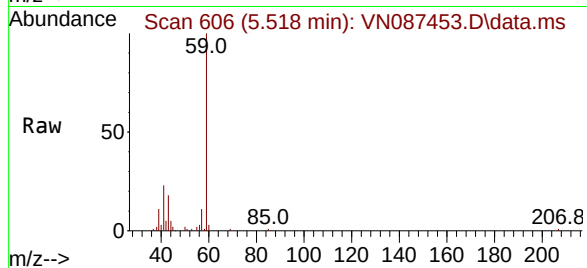
98 63.6 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 101.156 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

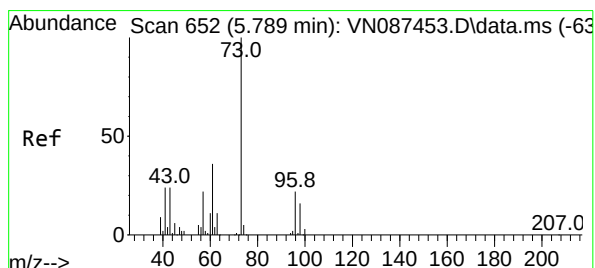
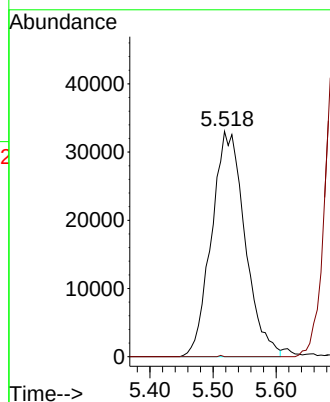
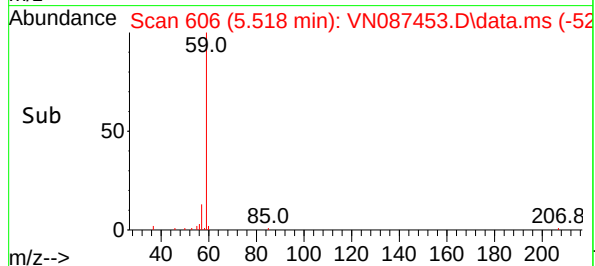
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 59 Resp: 121824  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

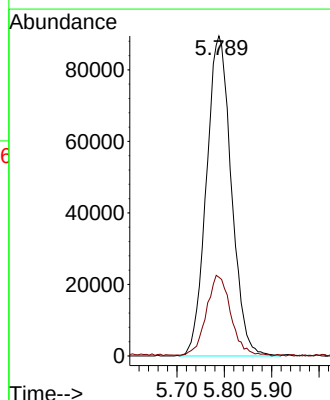
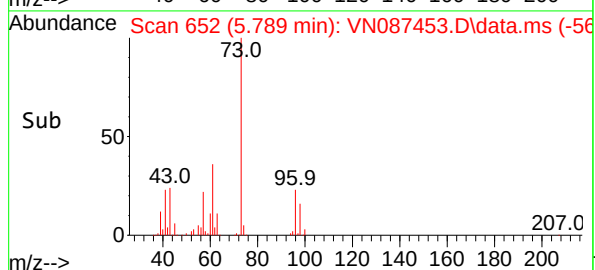
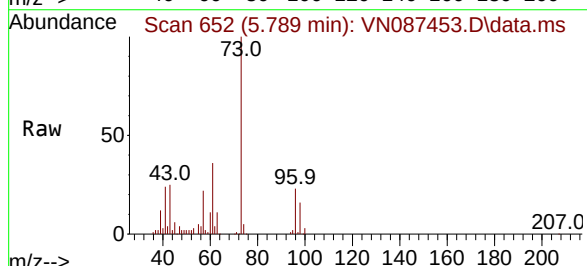
Manual Integrations  
APPROVED

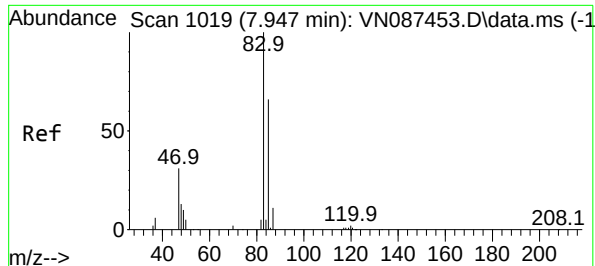
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#24  
Methyl tert-Butyl Ether  
Concen: 20.452 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 73 Resp: 327775  
Ion Ratio Lower Upper  
73 100  
43 24.9 19.9 29.9





#25

Chloroform

Concen: 20.518 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 18079

Ion Ratio Lower Upper

83 100

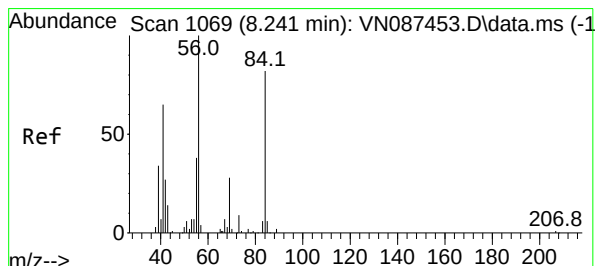
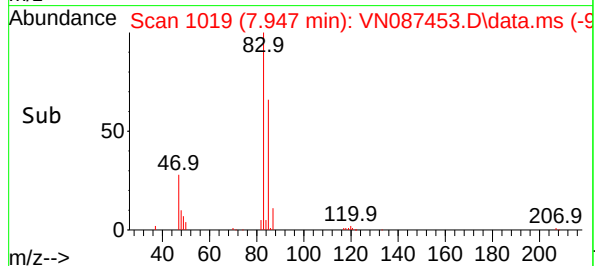
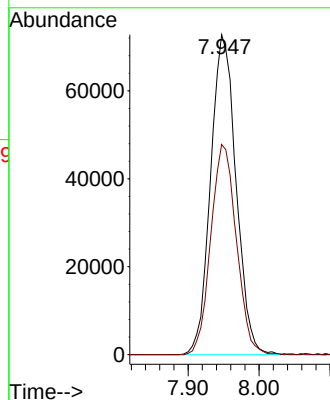
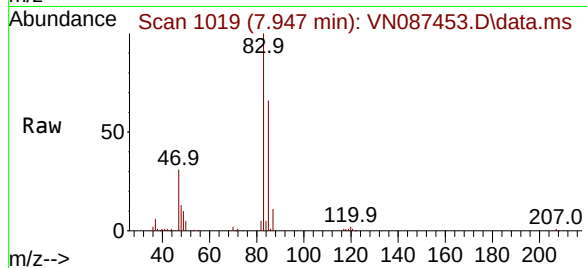
85 65.7 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 21.086 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

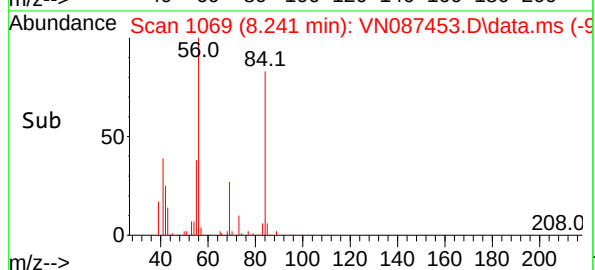
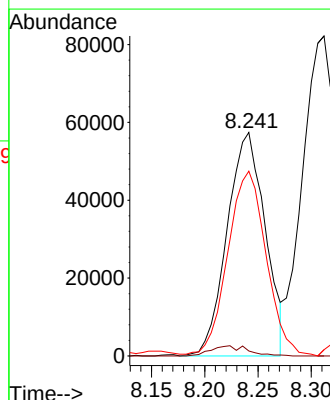
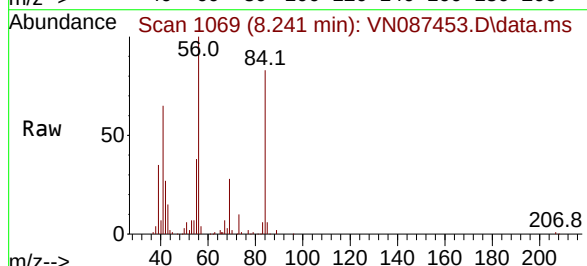
Tgt Ion: 56 Resp: 142519

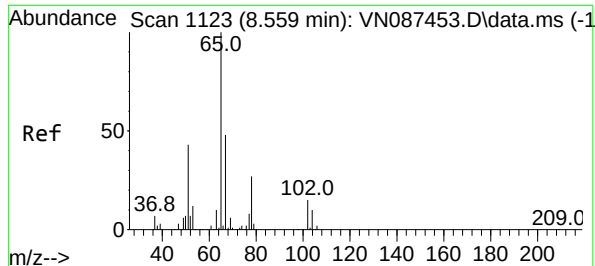
Ion Ratio Lower Upper

56 100

89 2.9 2.3 3.5

84 83.7 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.767 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 182238

Ion Ratio Lower Upper

65 100

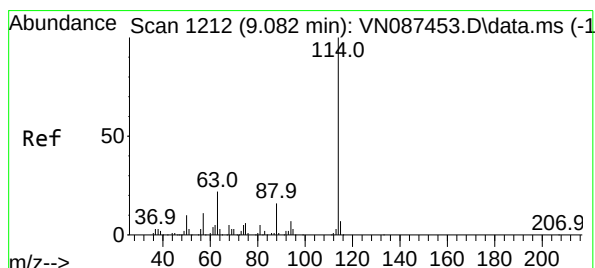
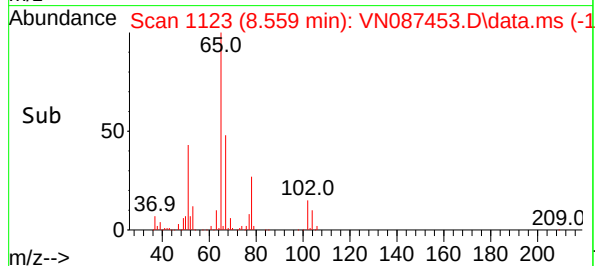
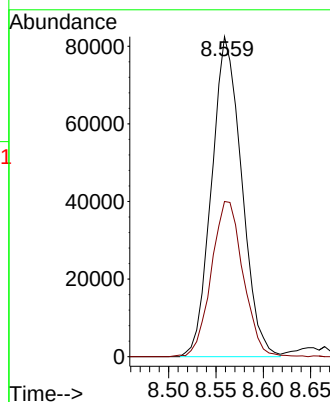
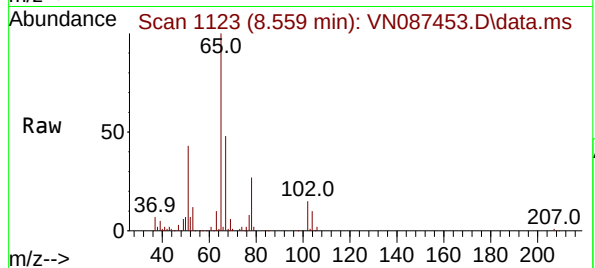
67 51.0 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

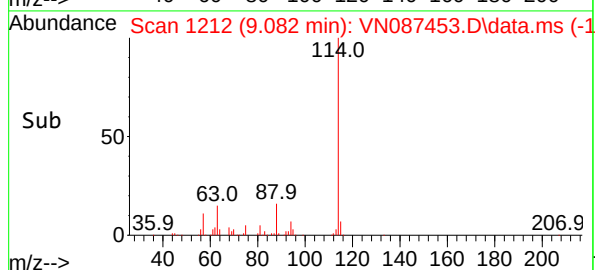
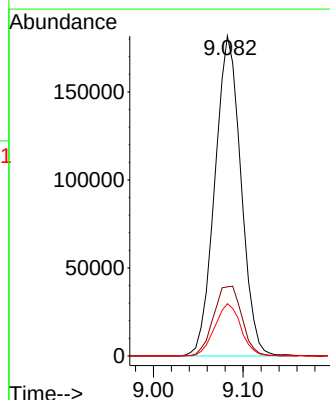
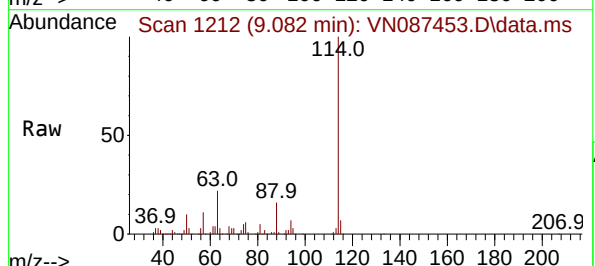
Tgt Ion:114 Resp: 367115

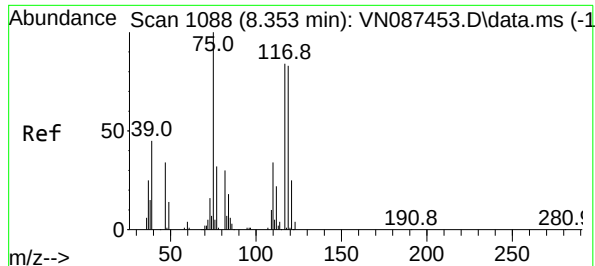
Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.4 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.042 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

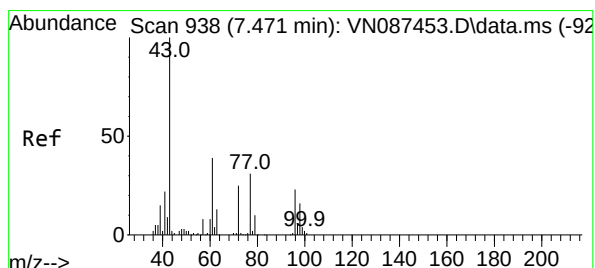
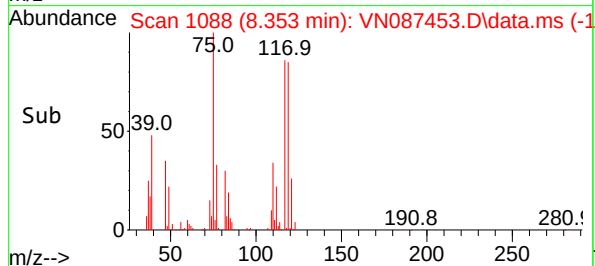
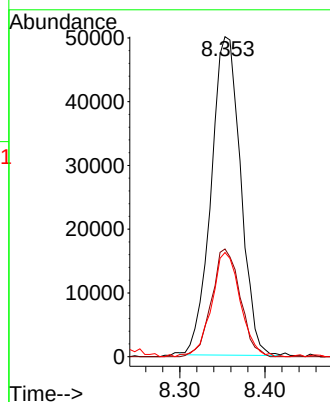
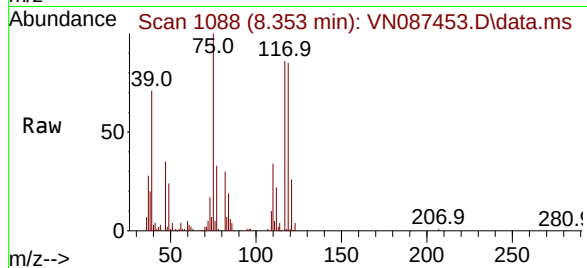
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 12000 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 32.9    | 0.0 65.8    |
| 77 31.8     | 0.0 63.6    |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 101.104 ug/l

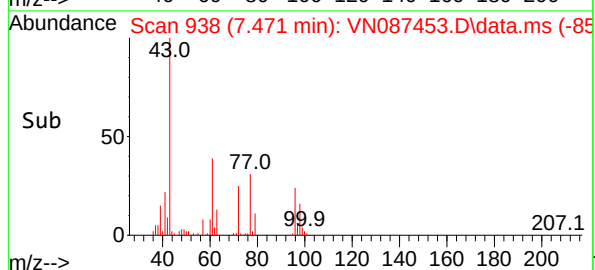
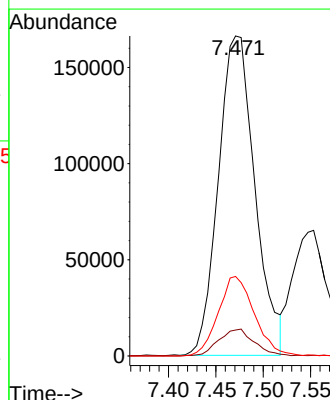
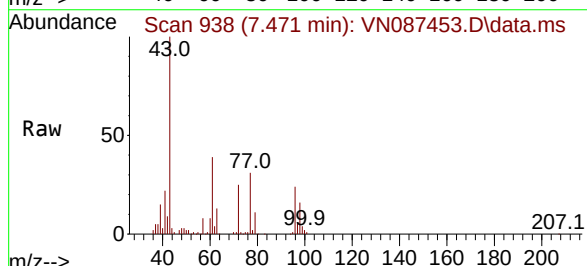
RT: 7.471 min Scan# 938

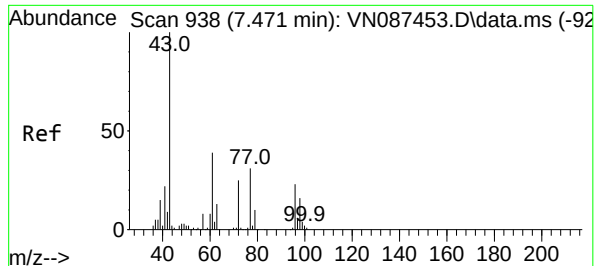
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 446235 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.2      | 6.6 9.8      |
| 72 24.6     | 19.7 29.5    |





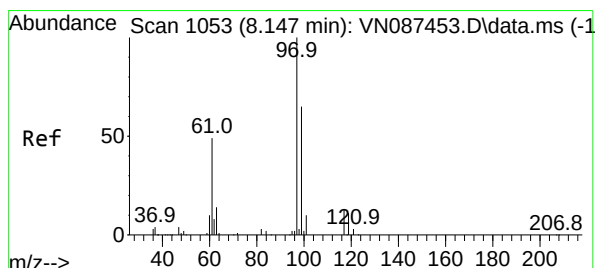
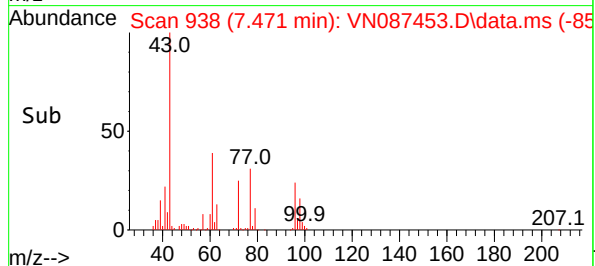
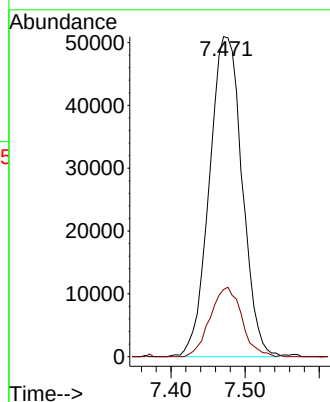
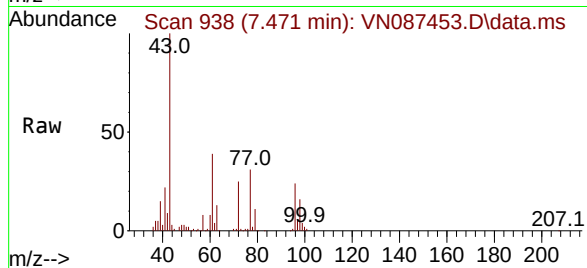
#31  
2,2-Dichloropropane  
Concen: 20.233 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 77 Resp: 15625  
Ion Ratio Lower Upper  
77 100  
97 20.9 16.7 25.1

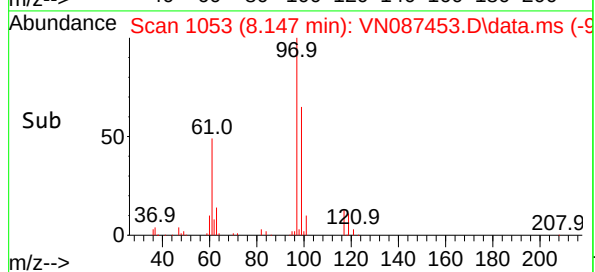
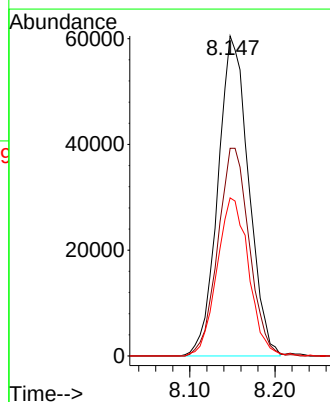
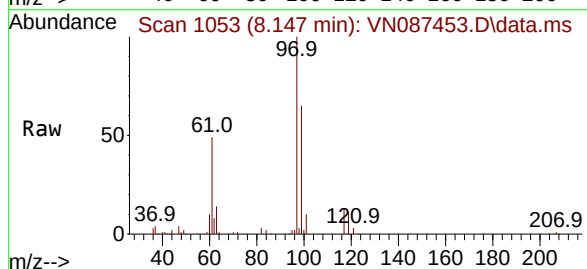
Manual Integrations  
APPROVED

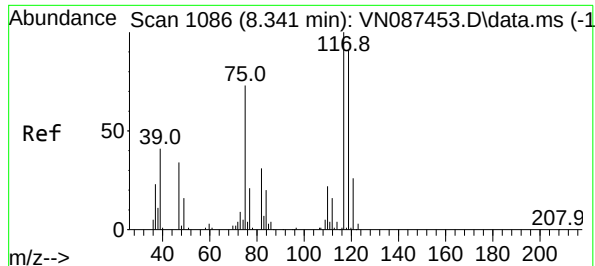
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 19.812 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

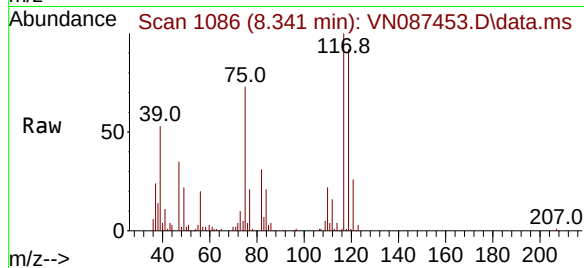
Tgt Ion: 97 Resp: 151297  
Ion Ratio Lower Upper  
97 100  
99 66.3 53.0 79.6  
61 50.8 40.6 61.0





#33  
Carbon Tetrachloride  
Concen: 20.070 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

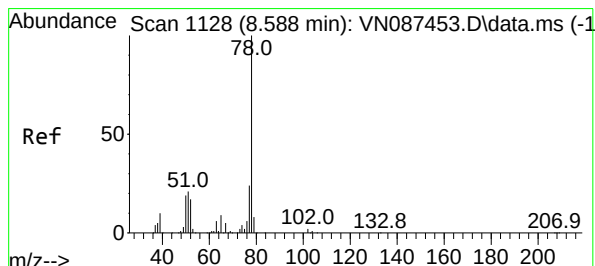
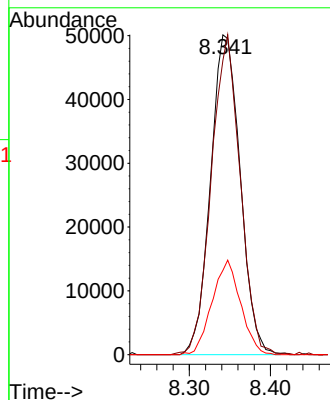
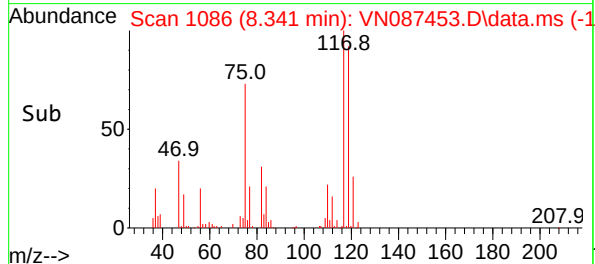
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 117 Resp: 127325  
Ion Ratio Lower Upper  
117 100  
119 91.7 73.4 110.0  
121 26.4 21.1 31.7

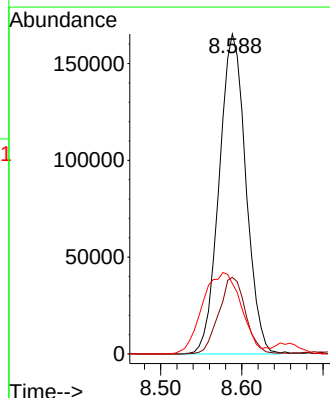
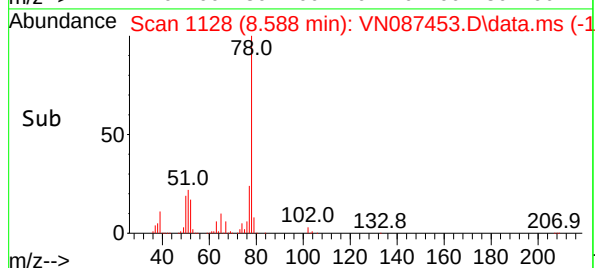
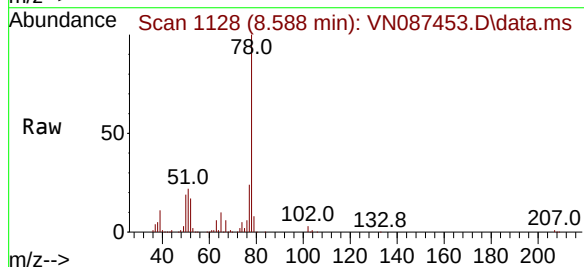
Manual Integrations  
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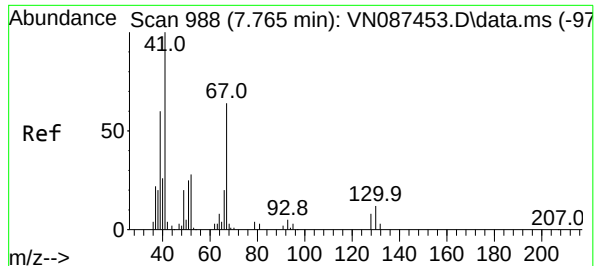
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#34  
Benzene  
Concen: 19.946 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 78 Resp: 377003  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.2 28.8  
51 21.1 16.9 25.3





#35

Methacrylonitrile

Concen: 20.484 ug/l

RT: 7.765 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 9756

Ion Ratio Lower Upper

41 100

39 60.3 30.1 90.5

67 64.1 32.0 96.2

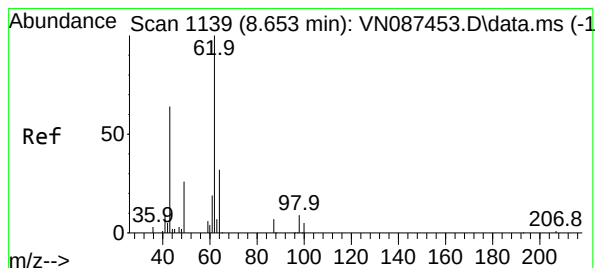
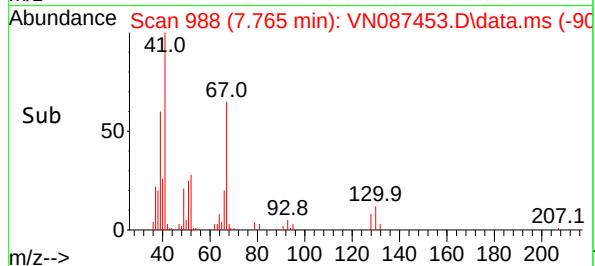
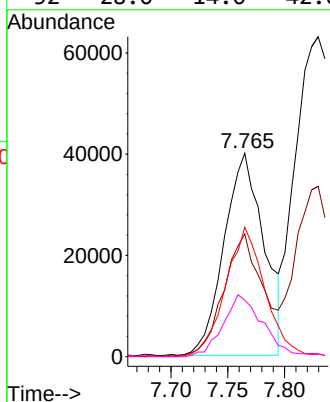
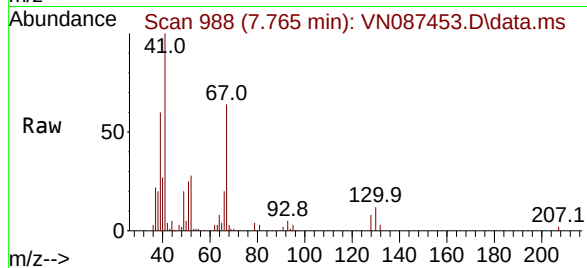
52 28.0 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 20.373 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087453.D

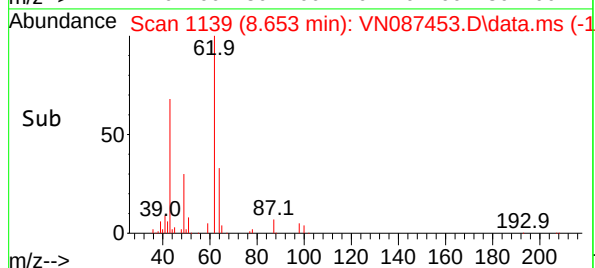
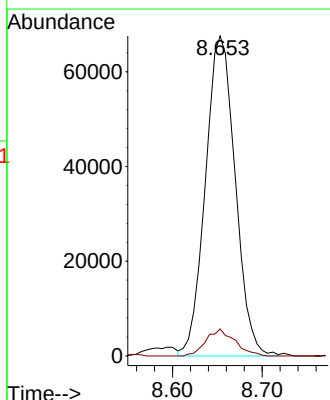
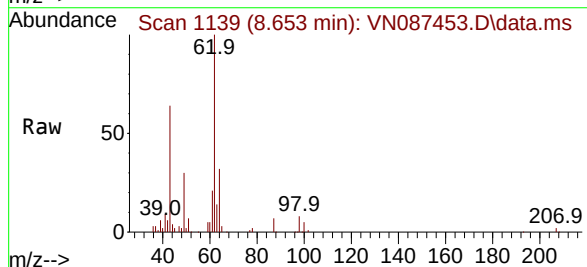
Acq: 05 Aug 2025 13:58

Tgt Ion: 62 Resp: 155656

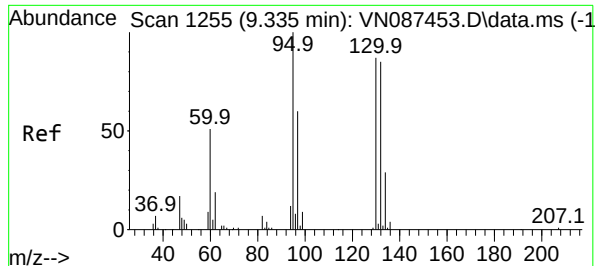
Ion Ratio Lower Upper

62 100

98 8.2 6.6 9.8







#37

Trichloroethene

Concen: 20.264 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:130 Resp: 84369

Ion Ratio Lower Upper

130 100

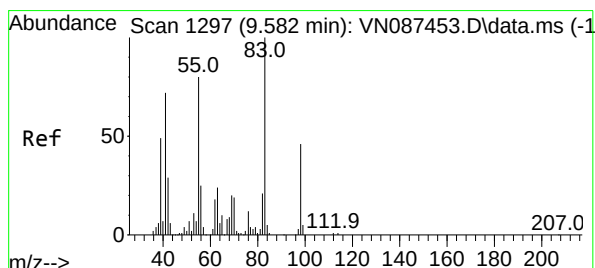
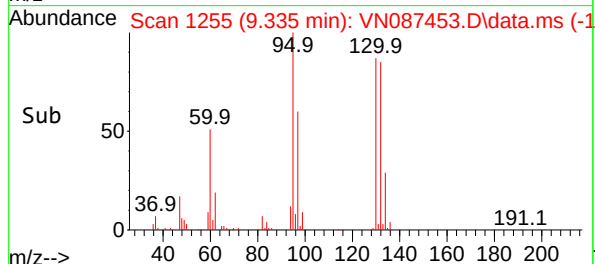
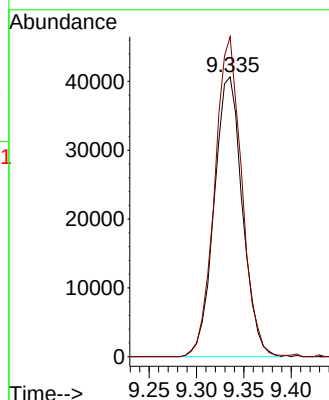
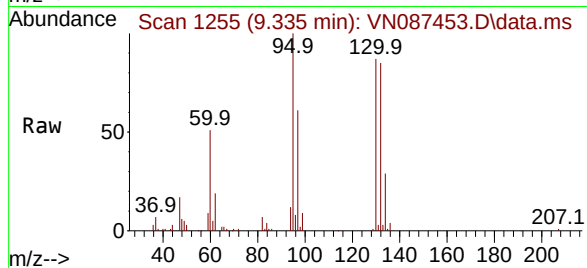
95 114.3 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 20.147 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

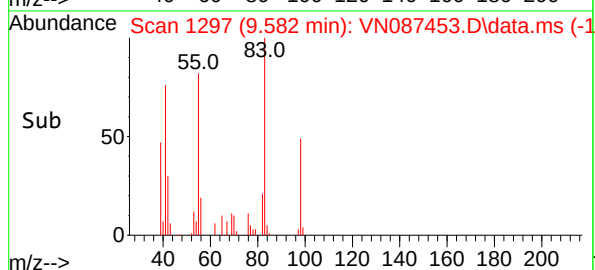
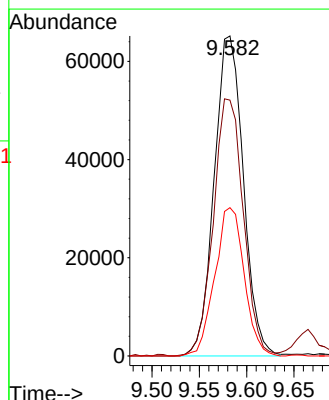
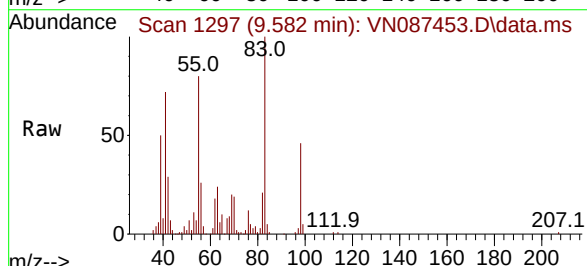
Tgt Ion: 83 Resp: 139951

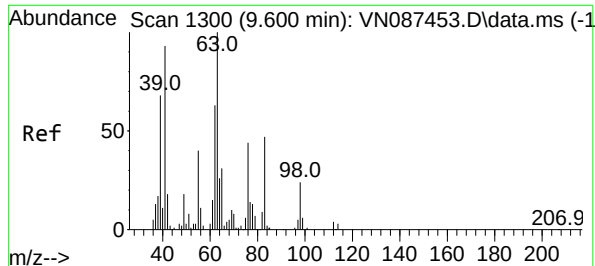
Ion Ratio Lower Upper

83 100

55 82.4 41.2 123.6

98 46.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 20.230 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 98038

Ion Ratio Lower Upper

63 100

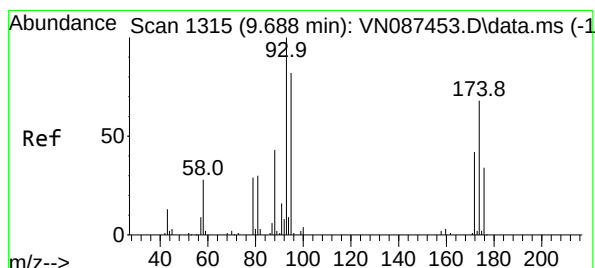
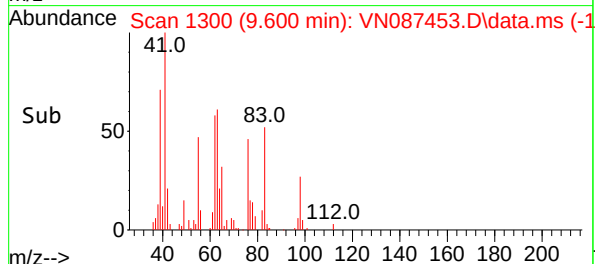
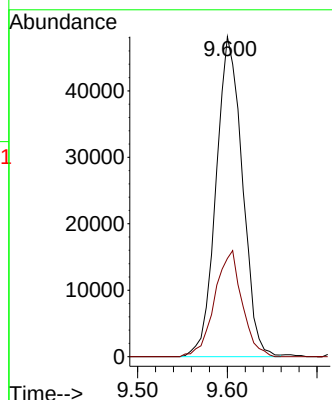
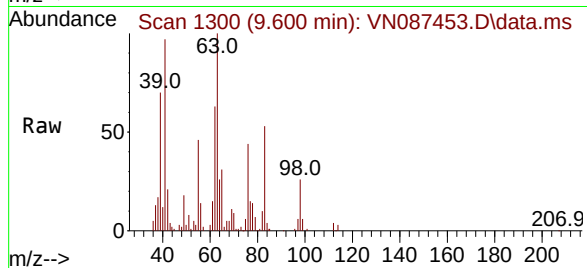
65 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 20.175 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

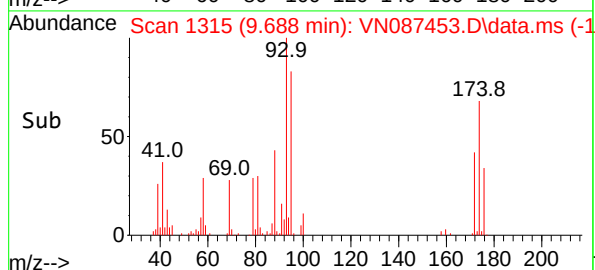
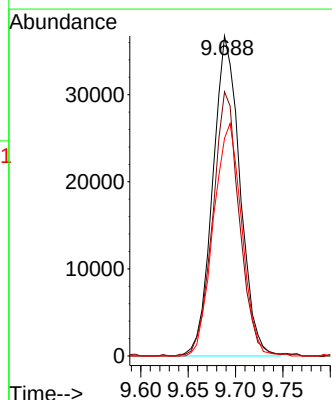
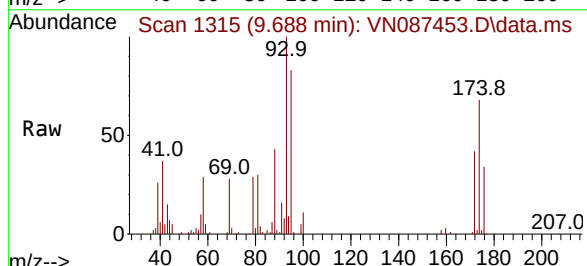
Tgt Ion: 93 Resp: 73356

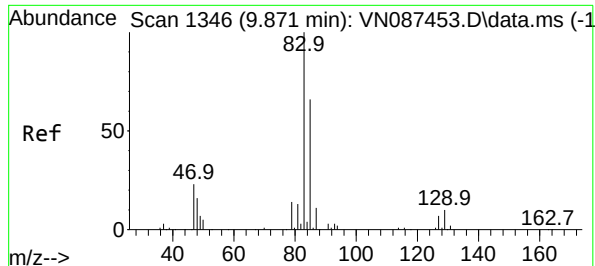
Ion Ratio Lower Upper

93 100

95 80.8 0.0 161.6

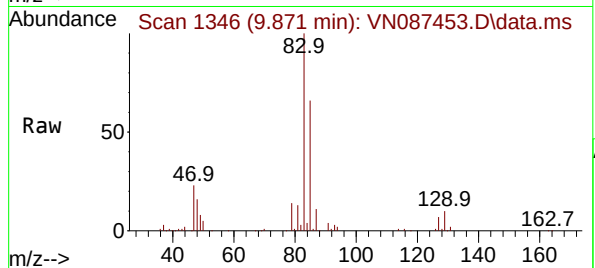
174 75.7 0.0 151.4





#41  
Bromodichloromethane  
Concen: 19.646 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

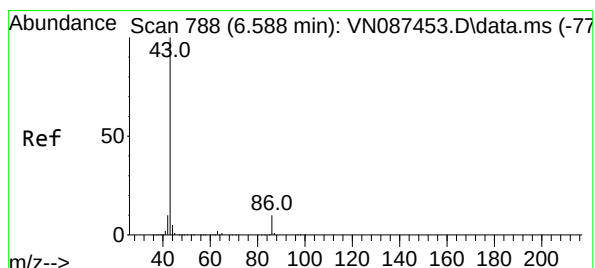
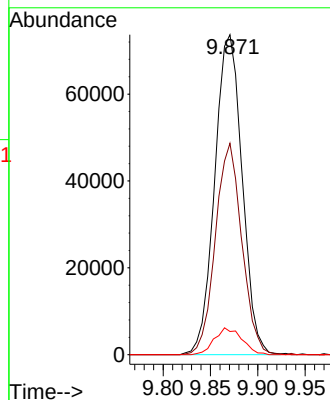
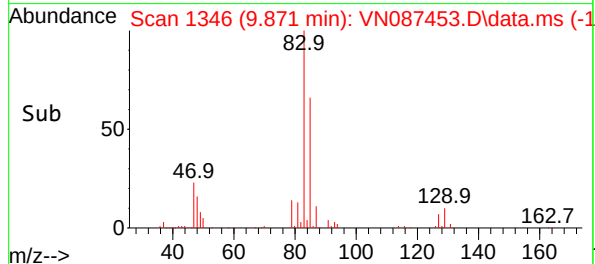
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 83 Resp: 148435  
Ion Ratio Lower Upper  
83 100  
85 66.1 52.9 79.3  
127 7.2 5.8 8.6

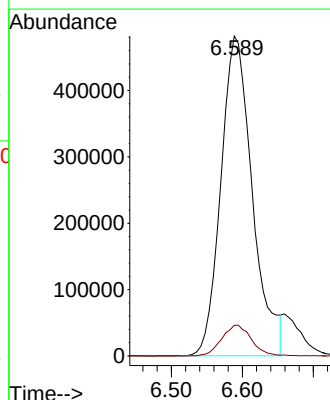
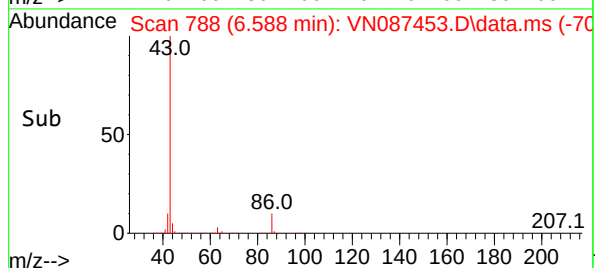
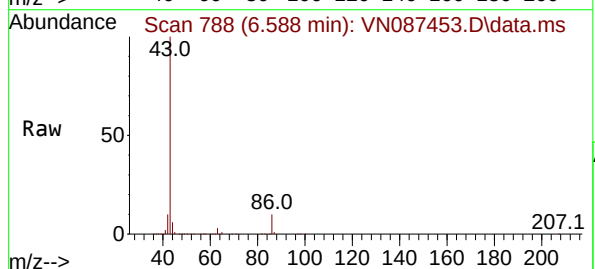
Manual Integrations  
APPROVED

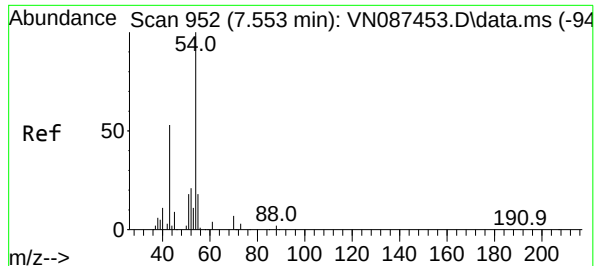
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 102.044 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 1483194  
Ion Ratio Lower Upper  
43 100  
86 9.1 7.3 10.9





#43

Ethyl Acetate

Concen: 20.349 ug/l m

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 17096

Ion Ratio Lower Upper

43 100

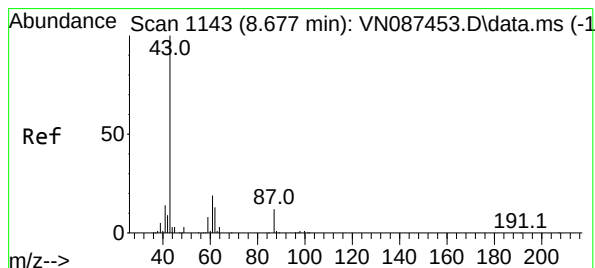
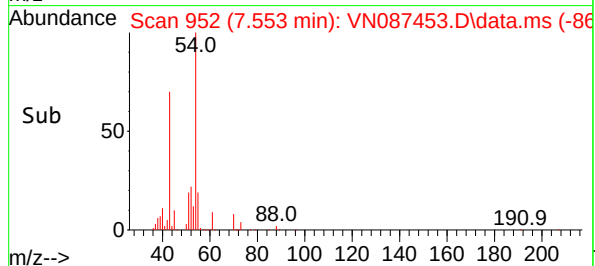
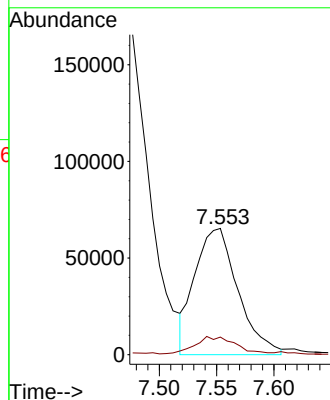
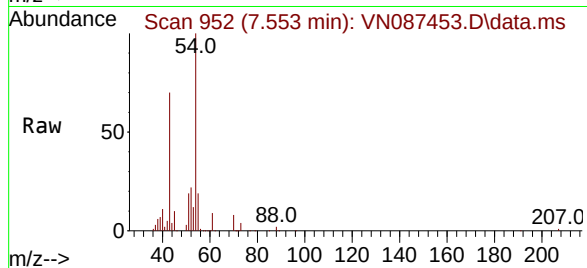
45 13.9 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 20.169 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087453.D

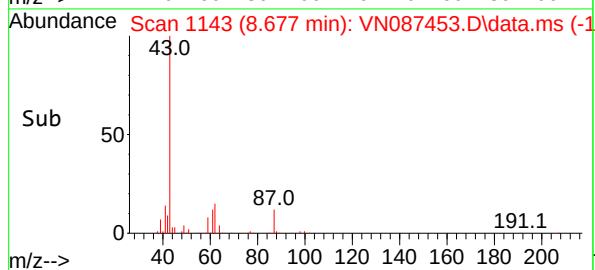
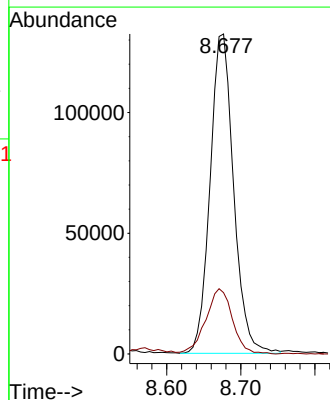
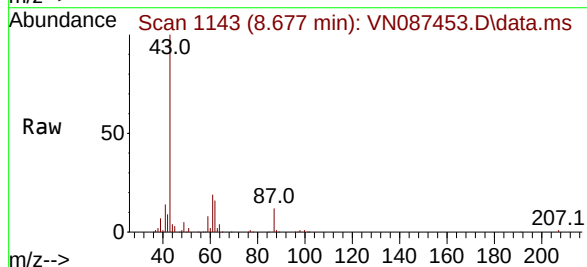
Acq: 05 Aug 2025 13:58

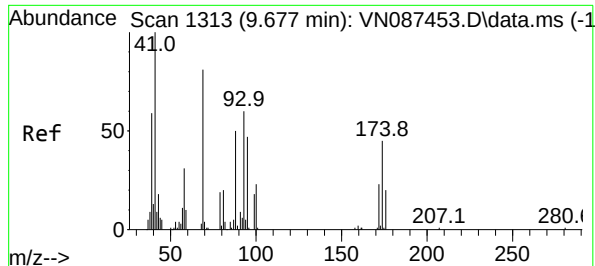
Tgt Ion: 43 Resp: 291509

Ion Ratio Lower Upper

43 100

61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 411.437 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 37910

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

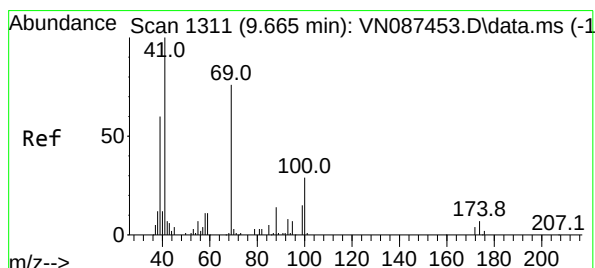
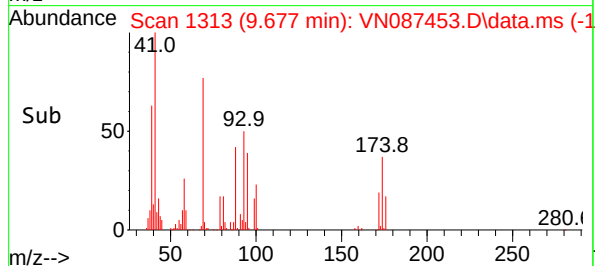
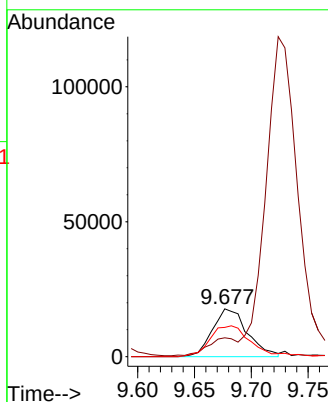
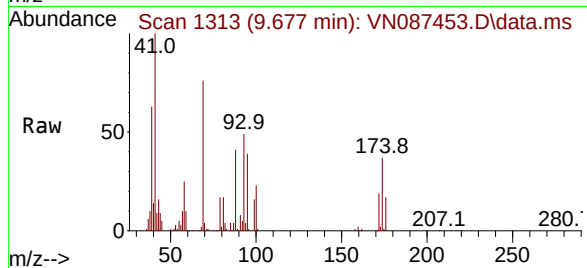
58 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 20.024 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

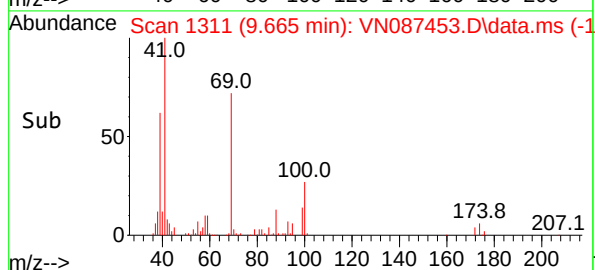
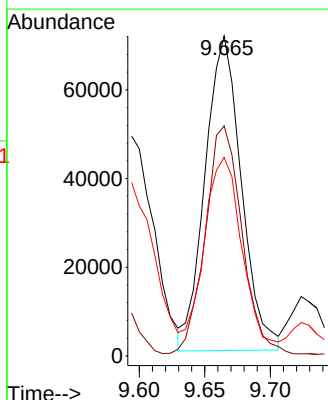
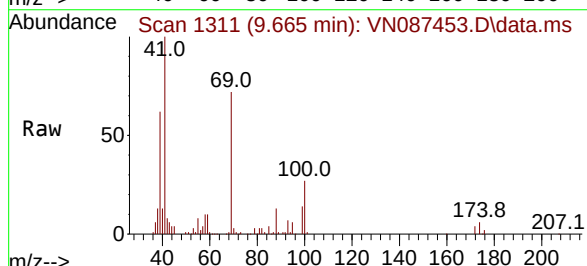
Tgt Ion: 41 Resp: 136612

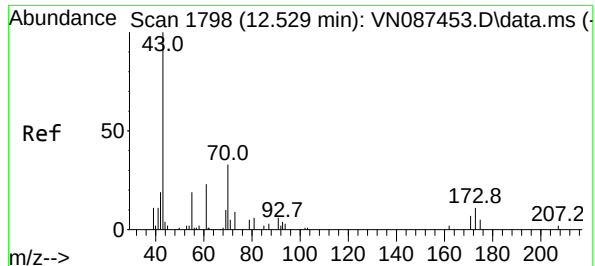
Ion Ratio Lower Upper

41 100

69 74.3 37.1 111.5

39 61.4 30.7 92.1





#47

n-amy1 Acetate

Concen: 19.052 ug/l m

RT: 12.529 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 13845

Ion Ratio Lower Upper

43 100

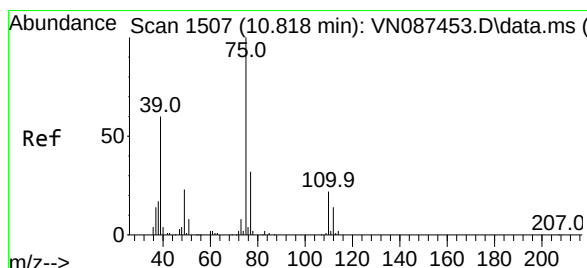
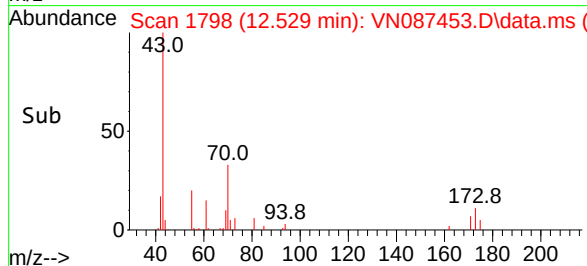
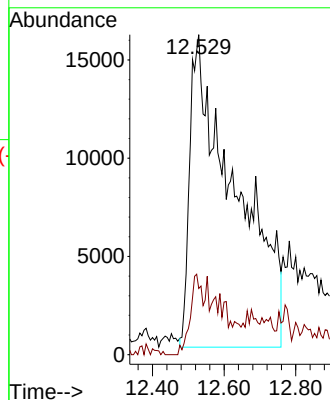
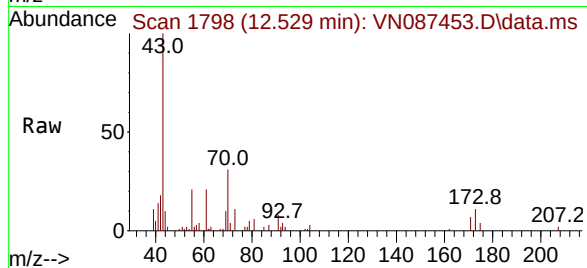
55 6.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 19.732 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087453.D

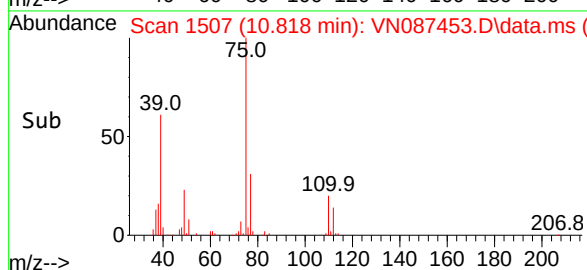
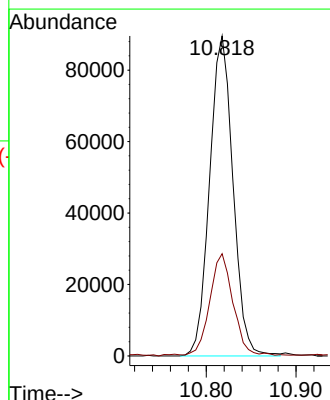
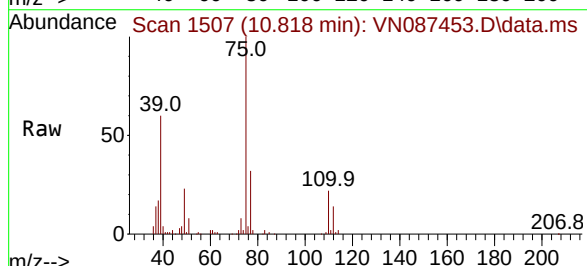
Acq: 05 Aug 2025 13:58

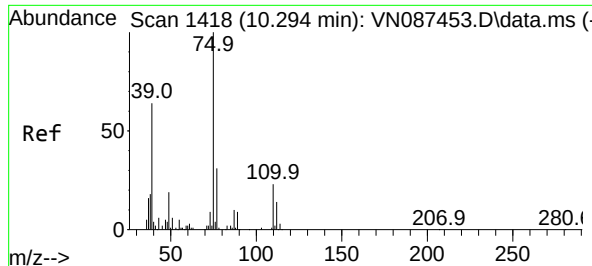
Tgt Ion: 75 Resp: 162191

Ion Ratio Lower Upper

75 100

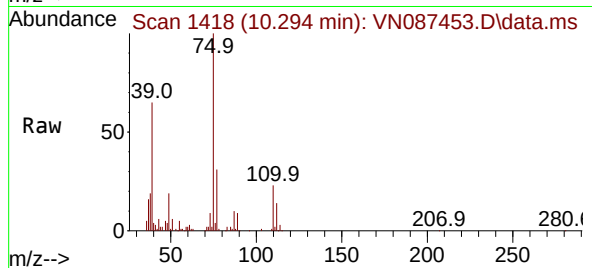
77 31.6 25.3 37.9





#49  
cis-1,3-Dichloropropene  
Concen: 19.641 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

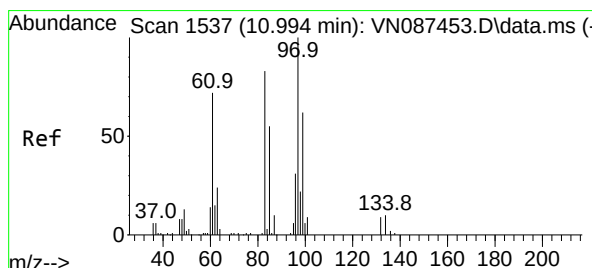
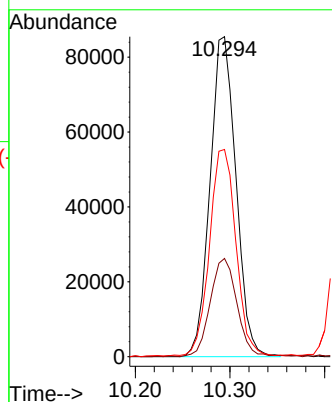
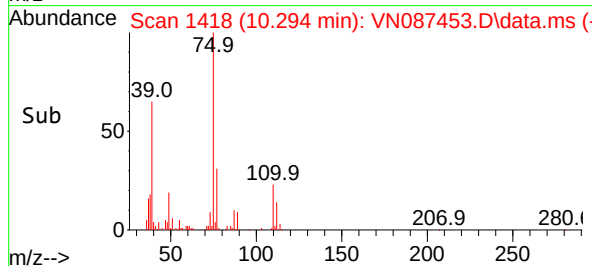
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 75 Resp: 162479  
Ion Ratio Lower Upper  
75 100  
77 30.7 24.6 36.8  
39 64.4 51.5 77.3

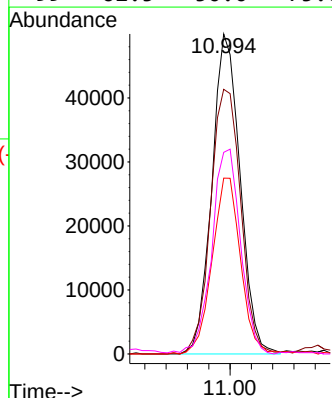
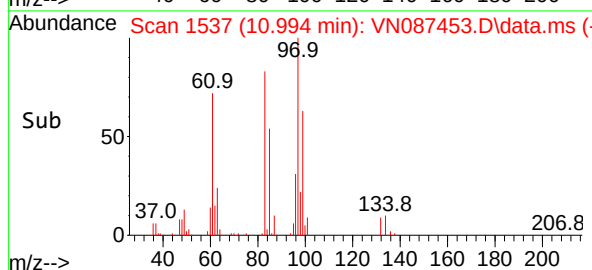
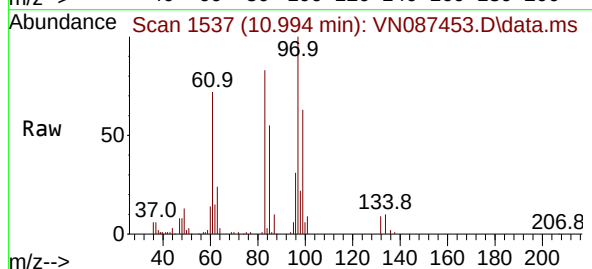
Manual Integrations  
APPROVED

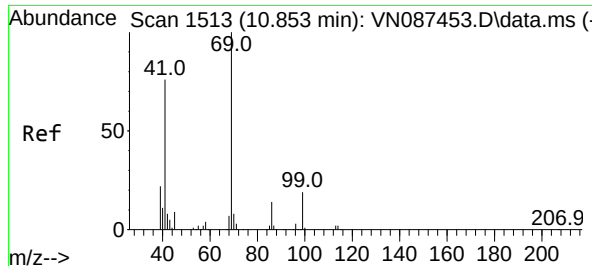
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#50  
1,1,2-Trichloroethane  
Concen: 19.993 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

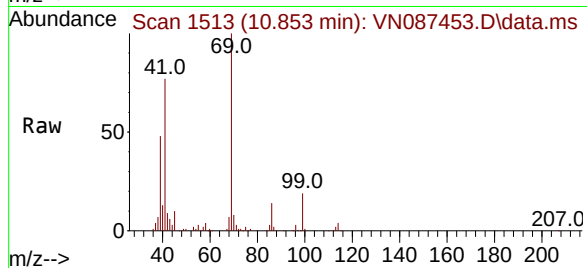
Tgt Ion: 97 Resp: 91845  
Ion Ratio Lower Upper  
97 100  
83 82.7 66.2 99.2  
85 54.9 43.9 65.9  
99 62.5 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 19.738 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

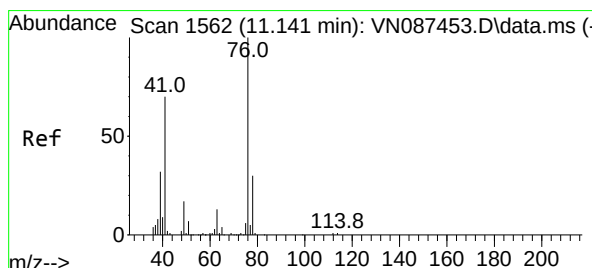
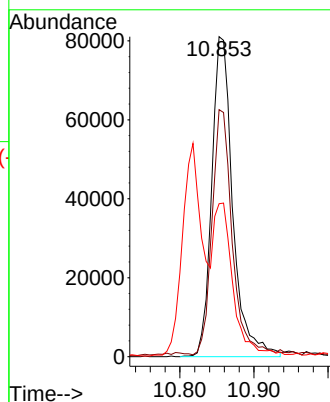
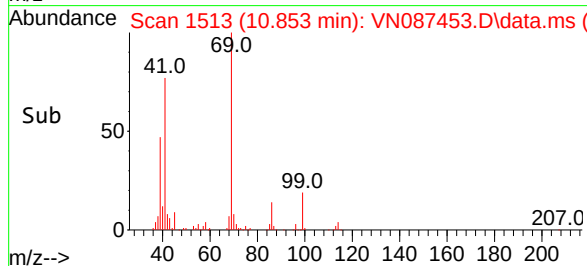
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 69 Resp: 159690  
Ion Ratio Lower Upper  
69 100  
41 76.1 38.0 114.1  
39 46.3 23.2 69.5

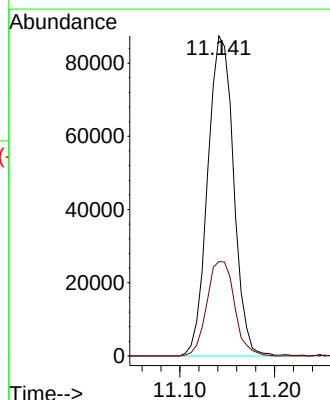
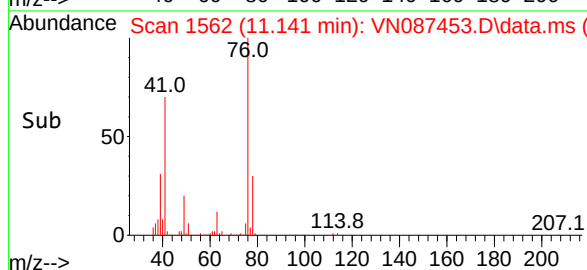
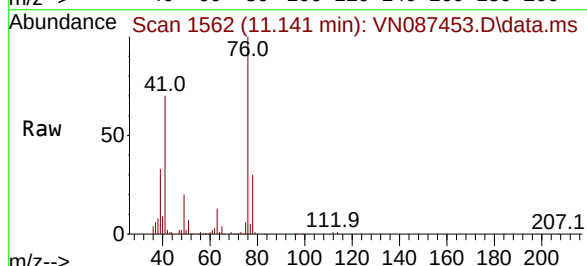
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

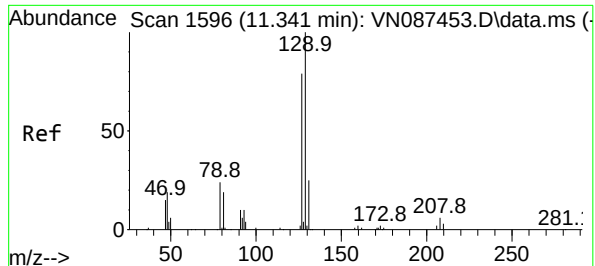


#52  
1,3-Dichloropropane  
Concen: 20.044 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 165895  
Ion Ratio Lower Upper  
76 100  
78 31.5 0.0 63.0

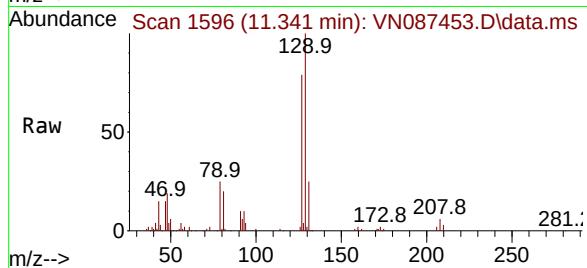






#53  
Dibromochloromethane  
Concen: 19.563 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

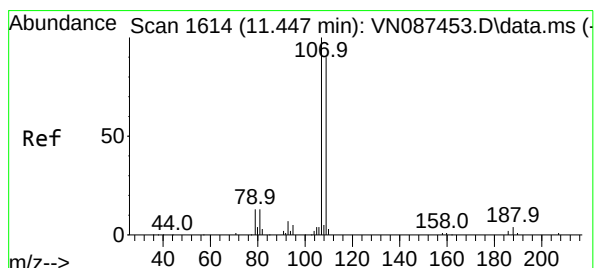
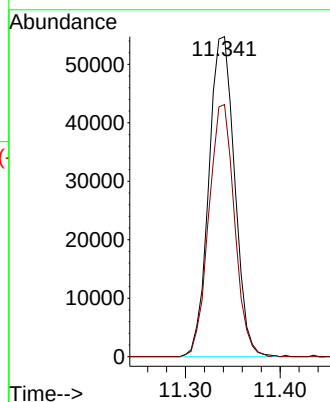
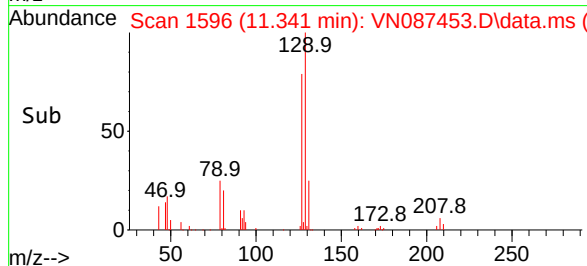
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion:129 Resp: 103790  
Ion Ratio Lower Upper  
129 100  
127 78.2 39.1 117.3

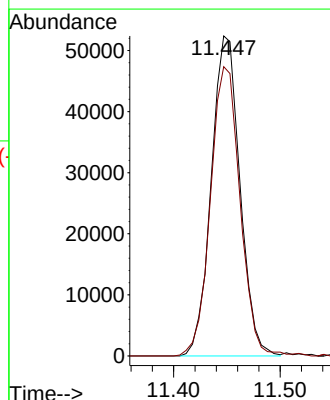
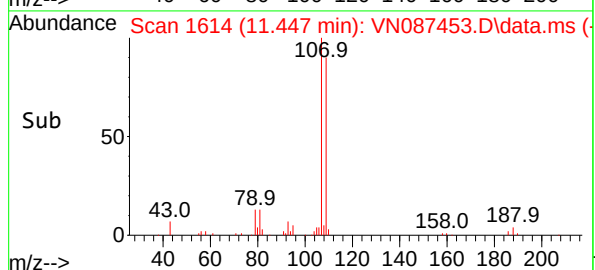
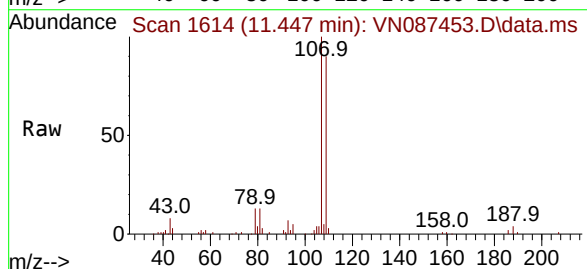
Manual Integrations  
APPROVED

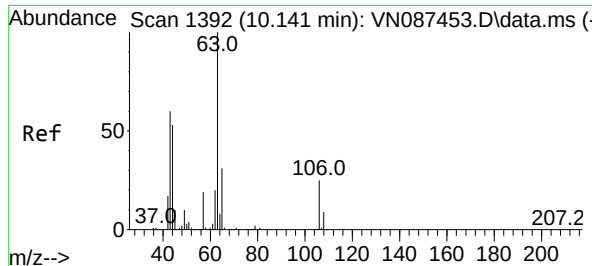
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#54  
1,2-Dibromoethane  
Concen: 20.073 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

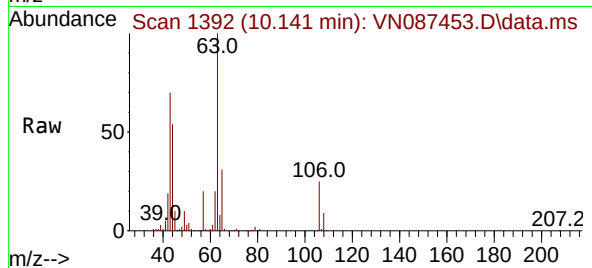
Tgt Ion:107 Resp: 97894  
Ion Ratio Lower Upper  
107 100  
109 92.8 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 100.225 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

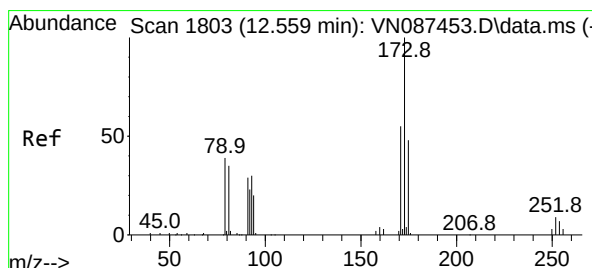
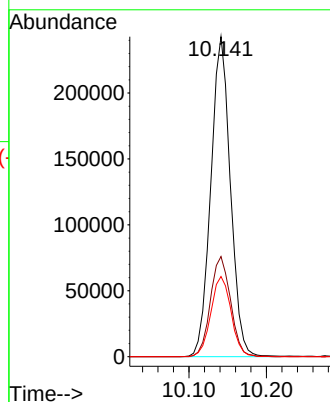
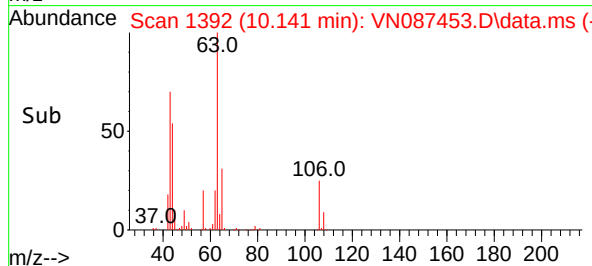
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 63 Resp: 426870  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 25.9 20.7 31.1

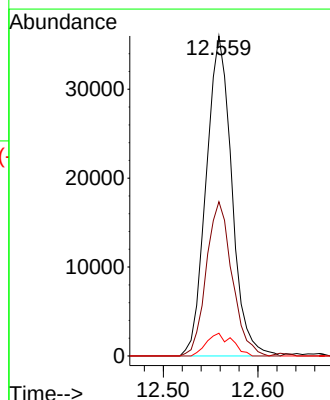
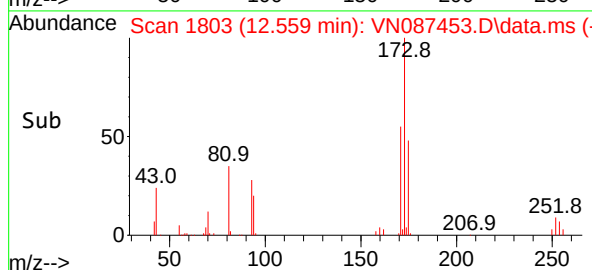
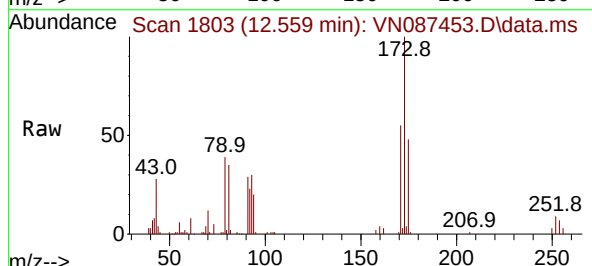
Manual Integrations  
APPROVED

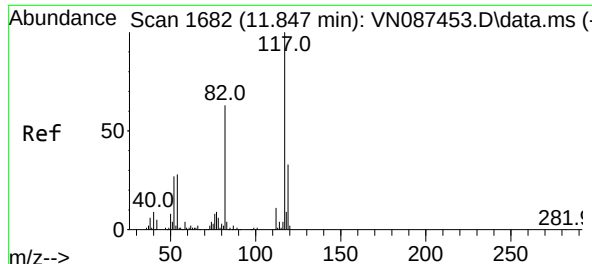
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#56  
Bromoform  
Concen: 19.250 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

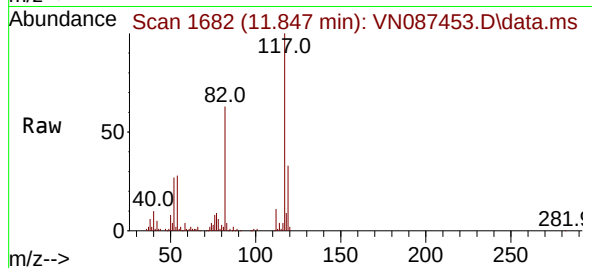
Tgt Ion:173 Resp: 67550  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
254 4.9 3.9 5.9





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

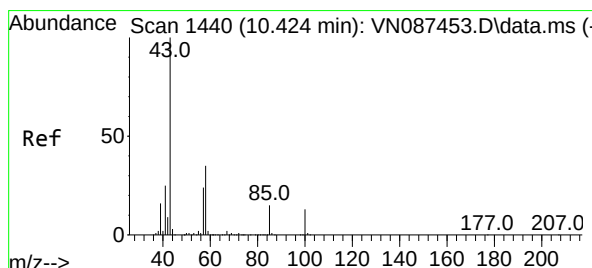
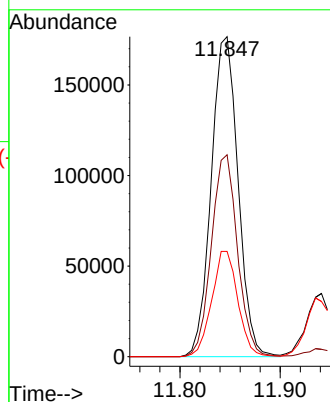
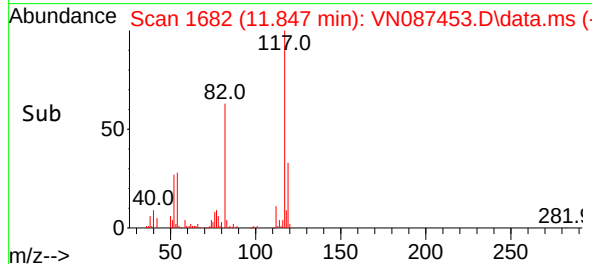
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 117 Resp: 327914  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.2 73.8  
119 32.1 25.7 38.5

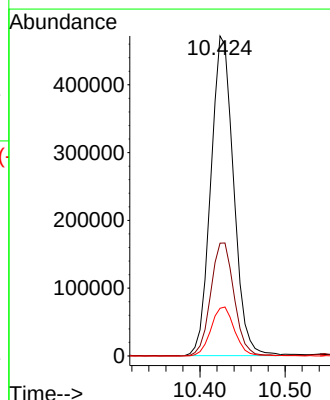
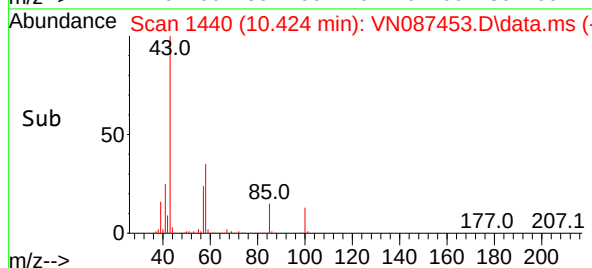
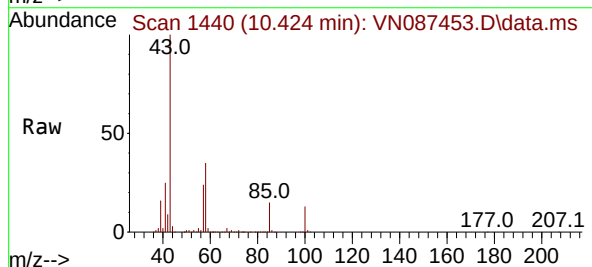
Manual Integrations  
APPROVED

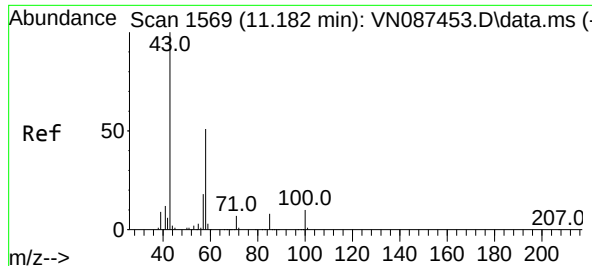
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 103.897 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

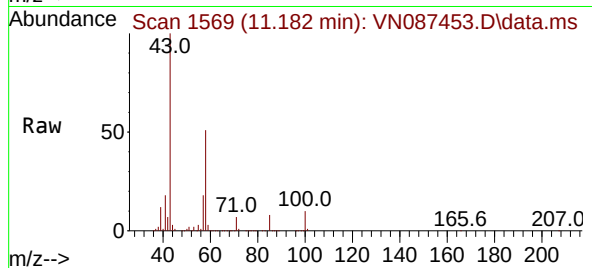
Tgt Ion: 43 Resp: 876419  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.0 43.6  
85 15.9 12.7 19.1





#59  
2-Hexanone  
Concen: 100.543 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

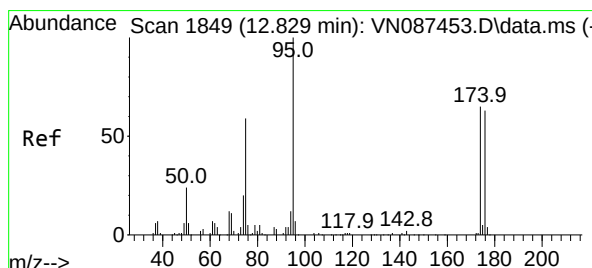
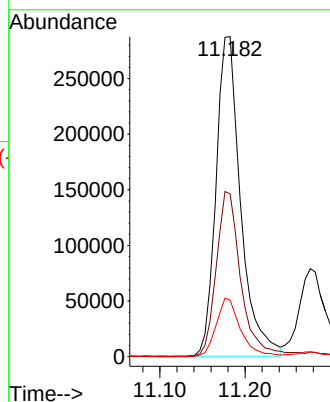
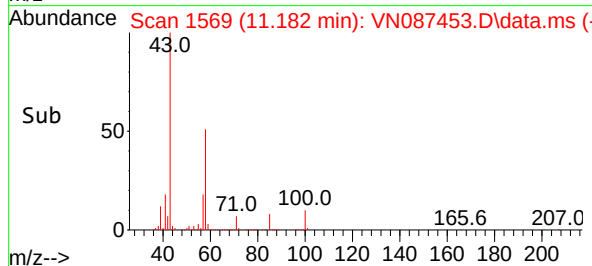
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 43 Resp: 576264  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.2 14.6 21.8

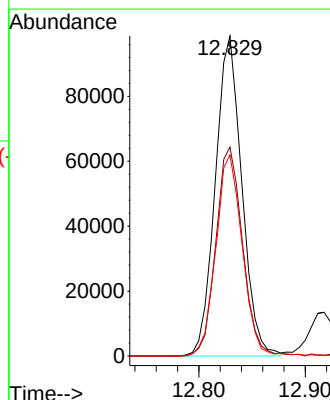
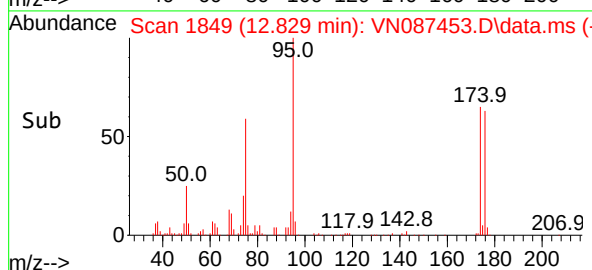
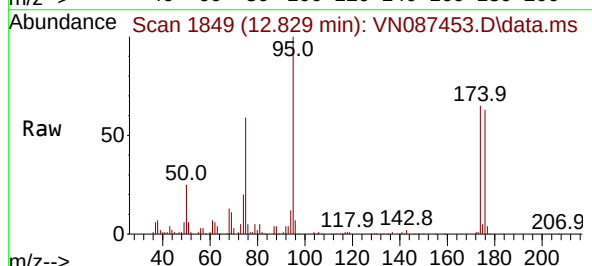
Manual Integrations  
APPROVED

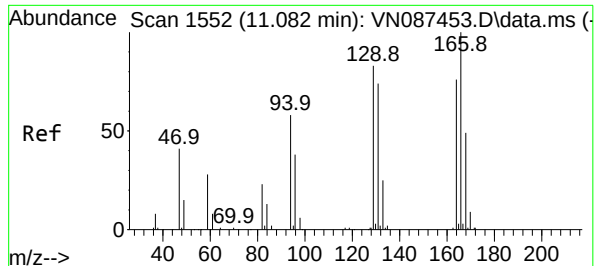
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#60  
4-Bromofluorobenzene  
Concen: 30.201 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

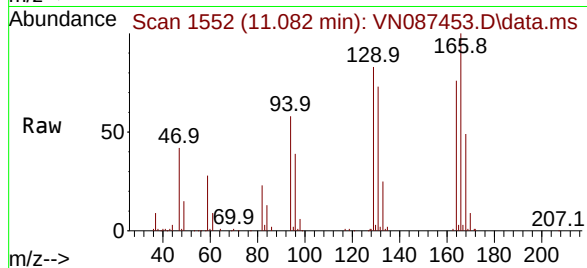
Tgt Ion: 95 Resp: 170429  
Ion Ratio Lower Upper  
95 100  
174 65.4 52.3 78.5  
176 62.3 49.8 74.8





#61  
Tetrachloroethene  
Concen: 19.992 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

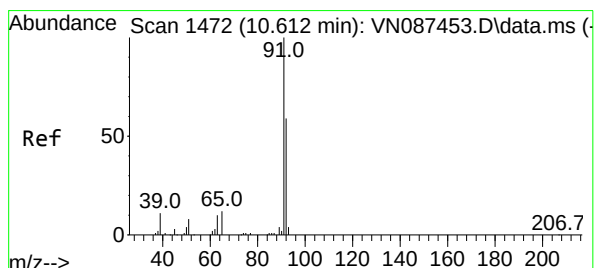
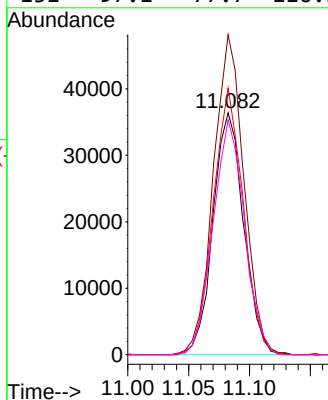
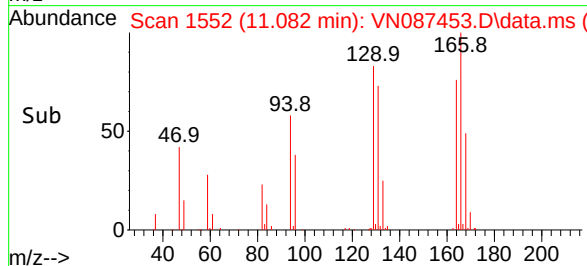
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



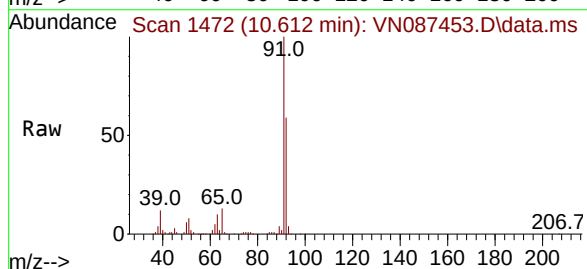
Tgt Ion:164 Resp: 6386  
Ion Ratio Lower Upper  
164 100  
166 131.7 105.4 158.0  
129 109.6 87.7 131.5  
131 97.1 77.7 116.5

Manual Integrations  
APPROVED

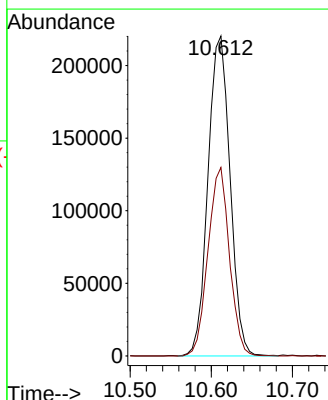
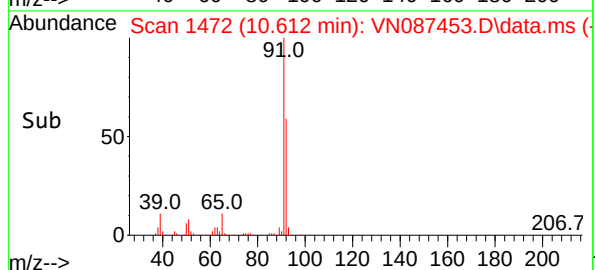
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

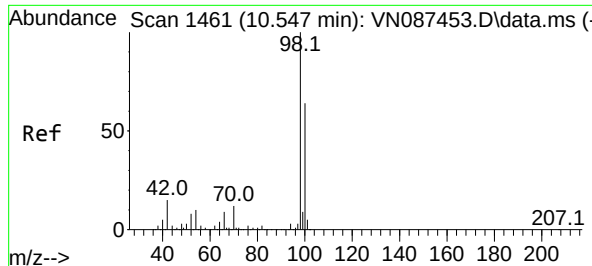


#62  
Toluene  
Concen: 20.573 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58



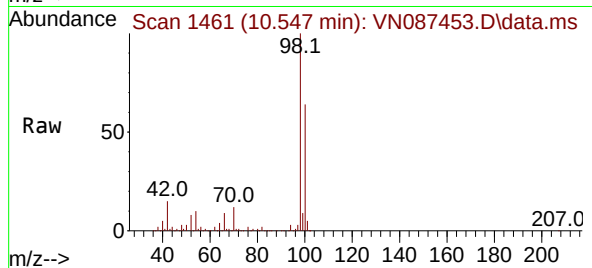
Tgt Ion: 91 Resp: 416382  
Ion Ratio Lower Upper  
91 100  
92 57.2 45.8 68.6





#63  
Toluene-d8  
Concen: 30.032 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

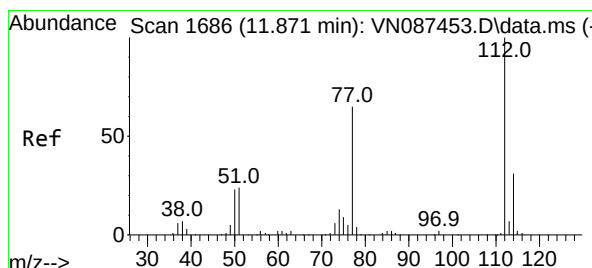
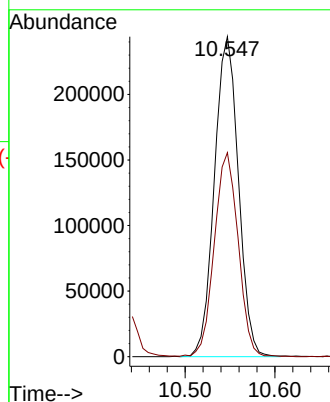
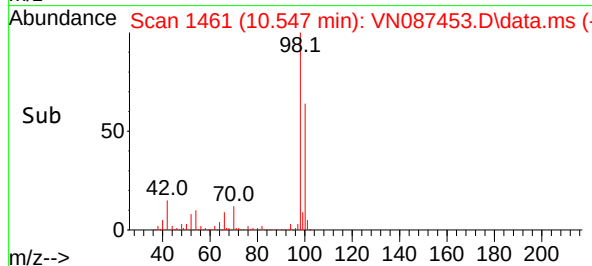
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 98 Resp: 45312  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.5 75.7

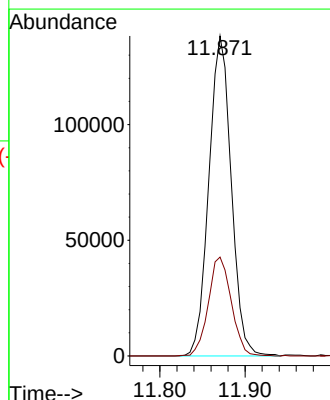
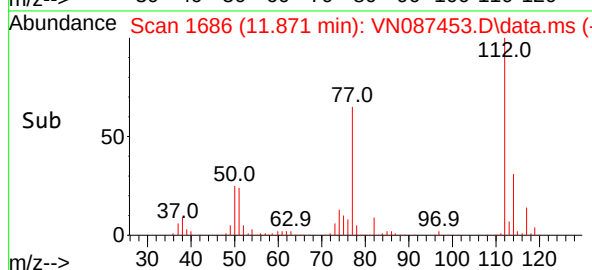
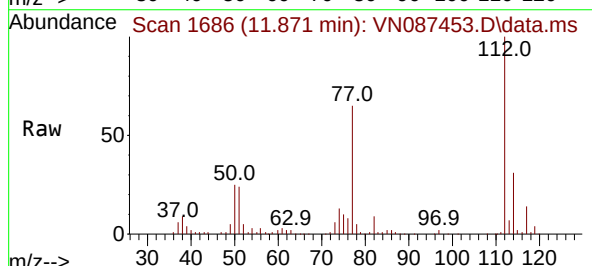
Manual Integrations  
APPROVED

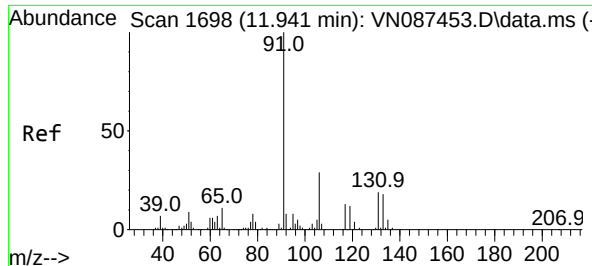
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#64  
Chlorobenzene  
Concen: 20.321 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:112 Resp: 252716  
Ion Ratio Lower Upper  
112 100  
114 30.9 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 20.216 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

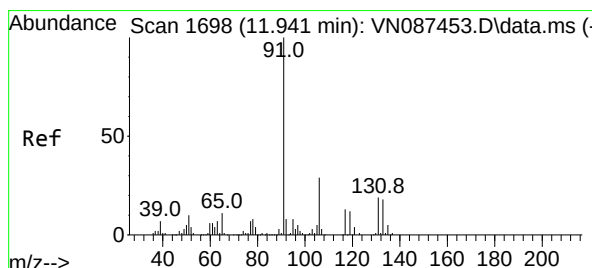
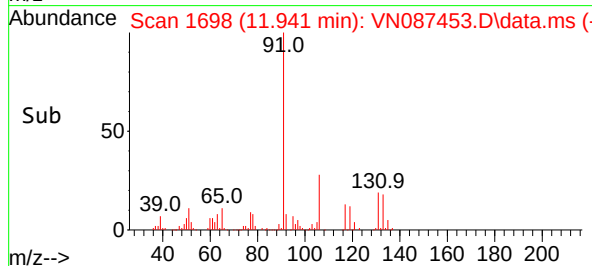
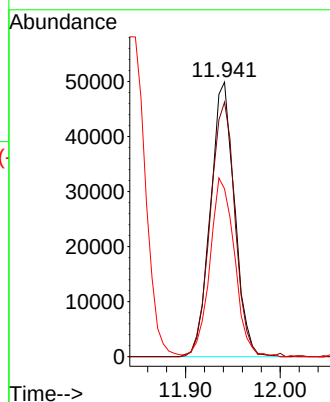
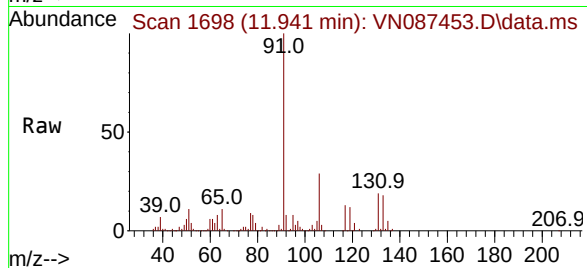
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 94.9  | 0.0   | 189.8 |
| 119     | 66.6  | 0.0   | 133.2 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#66

Ethyl Benzene

Concen: 20.497 ug/l

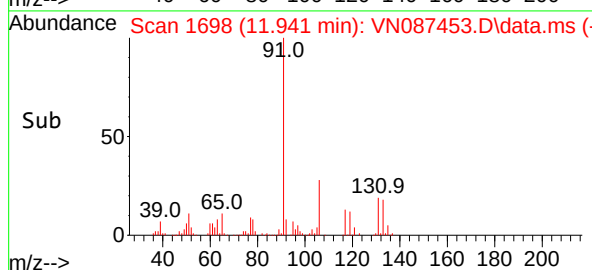
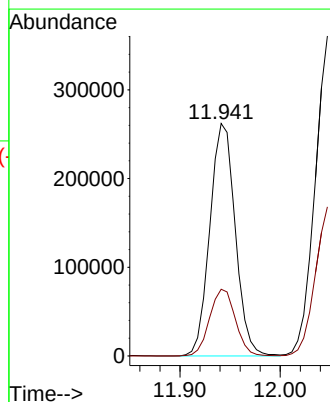
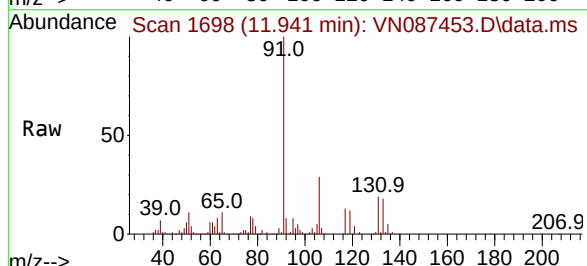
RT: 11.941 min Scan# 1698

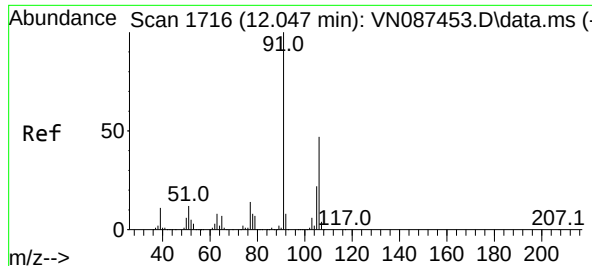
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 28.6  | 22.9  | 34.3  |





#67

m/p-Xylenes

Concen: 40.573 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:106 Resp: 335952

Ion Ratio Lower Upper

106 100

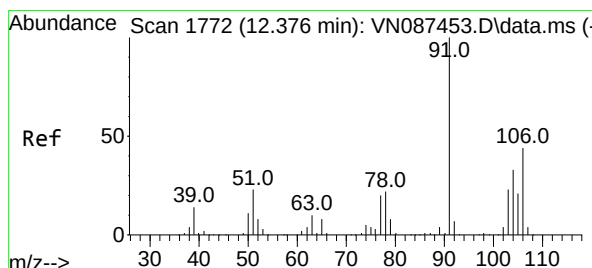
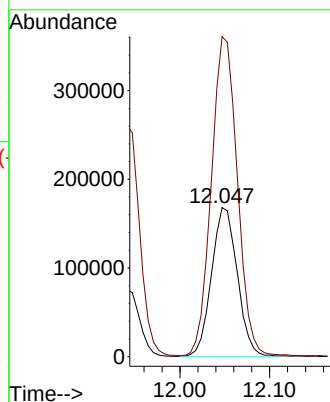
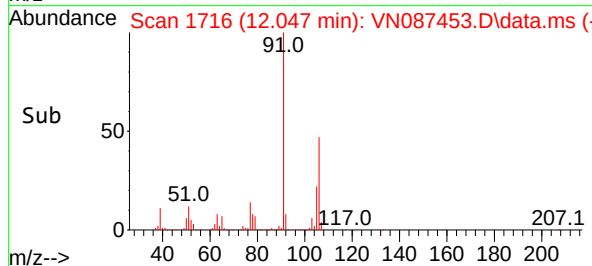
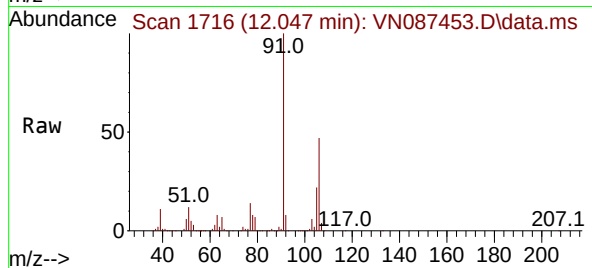
91 217.7 174.2 261.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#68

o-Xylene

Concen: 20.228 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VN087453.D

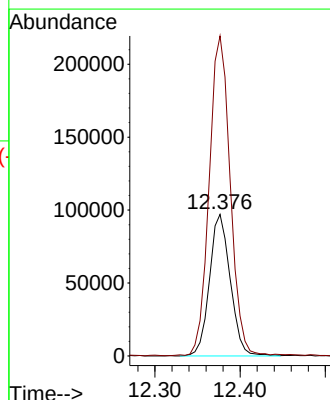
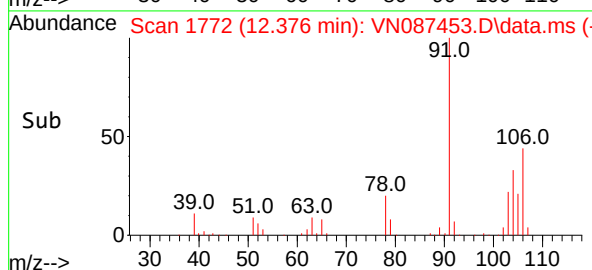
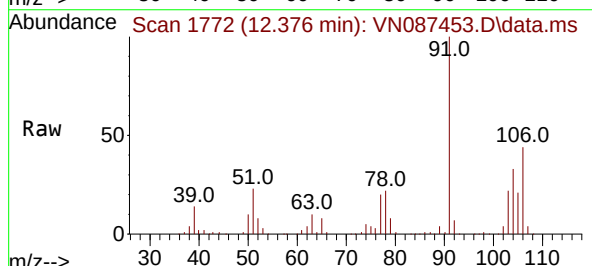
Acq: 05 Aug 2025 13:58

Tgt Ion:106 Resp: 164778

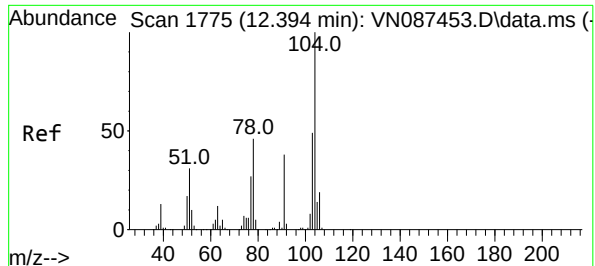
Ion Ratio Lower Upper

106 100

91 229.0 114.5 343.5

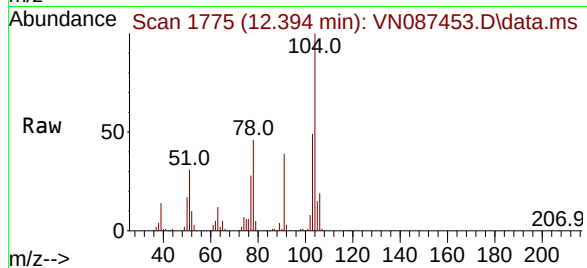






#69  
Styrene  
Concen: 20.353 ug/l  
RT: 12.394 min Scan# 1775  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

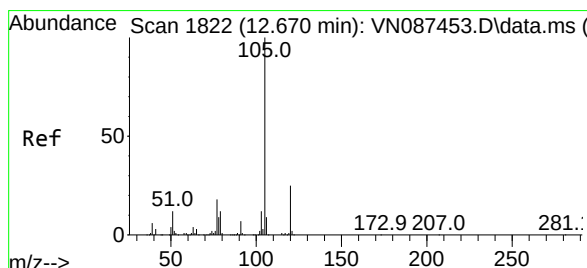
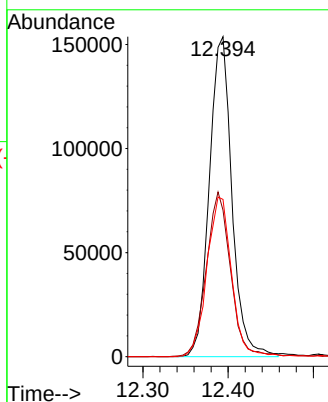
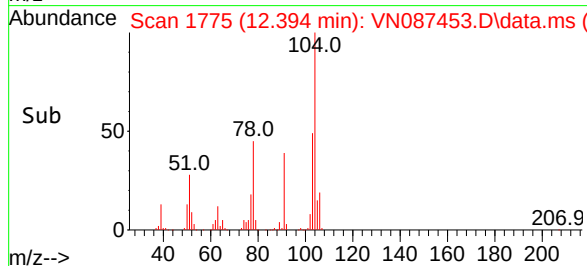
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



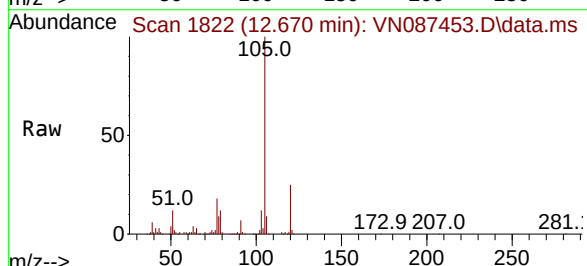
Tgt Ion:104 Resp: 28310  
Ion Ratio Lower Upper  
104 100  
78 54.8 43.8 65.8  
103 53.9 43.1 64.7

Manual Integrations  
APPROVED

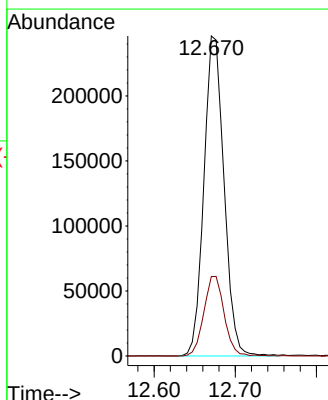
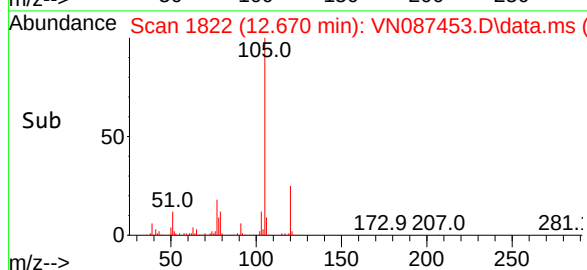
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

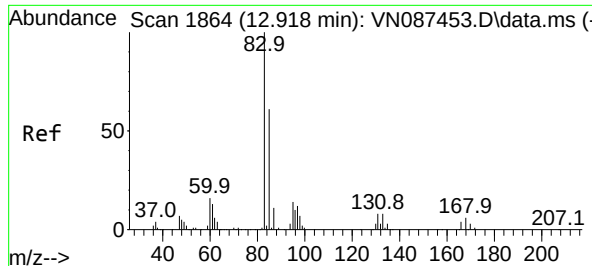


#70  
Isopropylbenzene  
Concen: 20.453 ug/l  
RT: 12.670 min Scan# 1822  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58



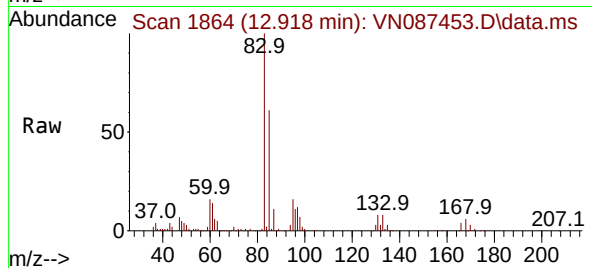
Tgt Ion:105 Resp: 423292  
Ion Ratio Lower Upper  
105 100  
120 25.0 17.5 32.5





#71  
1,1,2,2-Tetrachloroethane  
Concen: 20.920 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

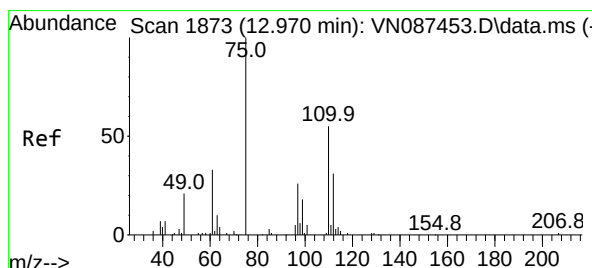
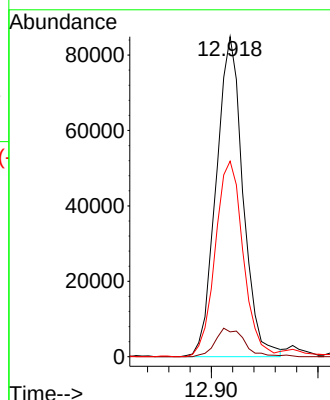
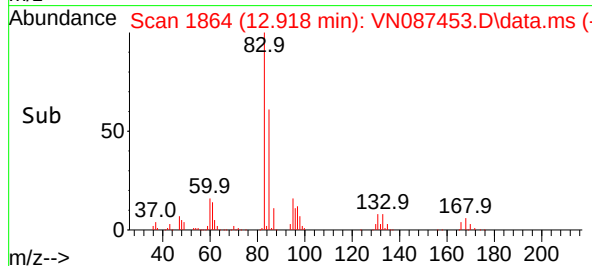
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 83 Resp: 14834  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 63.4 31.7 95.1

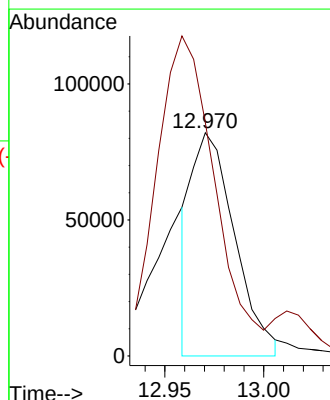
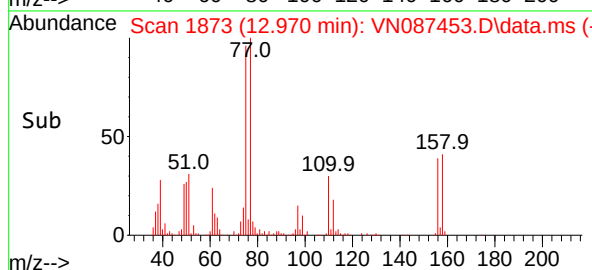
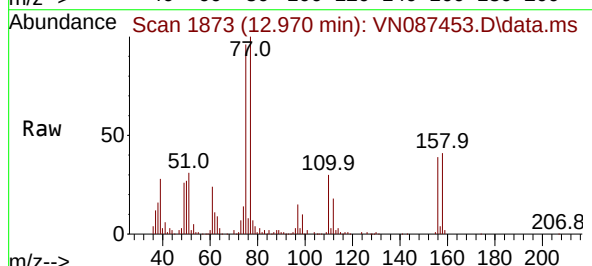
Manual Integrations  
APPROVED

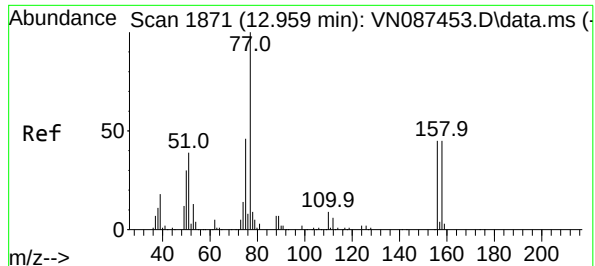
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#72  
1,2,3-Trichloropropane  
Concen: 16.992 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 123856  
Ion Ratio Lower Upper  
75 100  
77 196.6 0.0 385.0





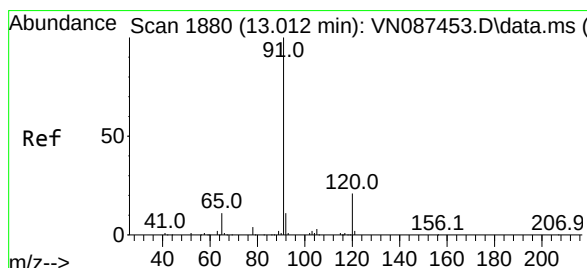
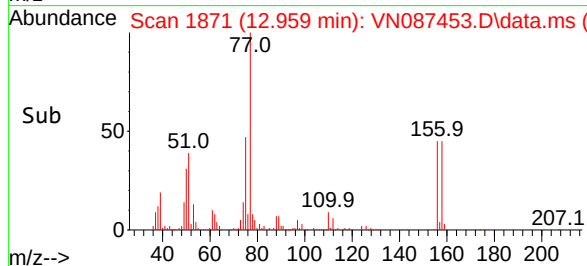
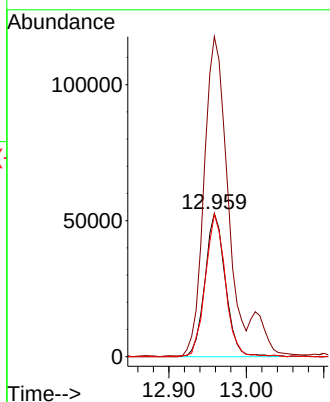
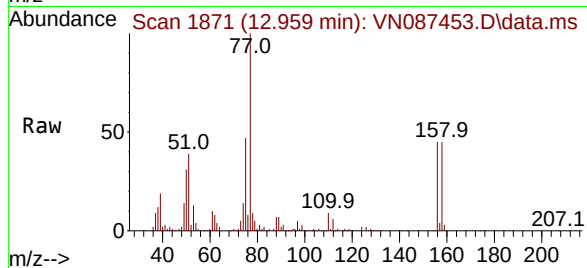
#73  
Bromobenzene  
Concen: 20.043 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:156 Resp: 9616  
Ion Ratio Lower Upper  
156 100  
77 253.3 0.0 506.6  
158 96.8 0.0 193.6

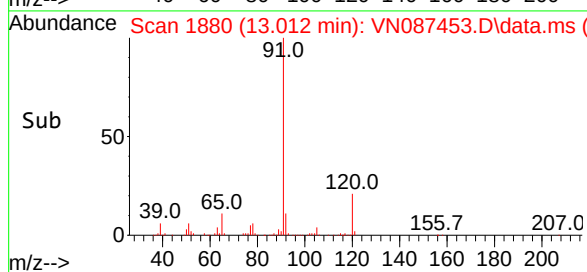
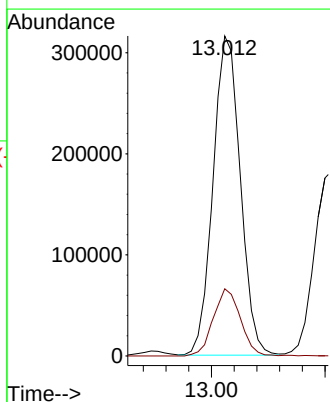
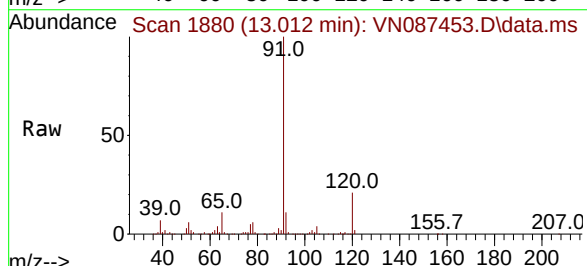
Manual Integrations  
APPROVED

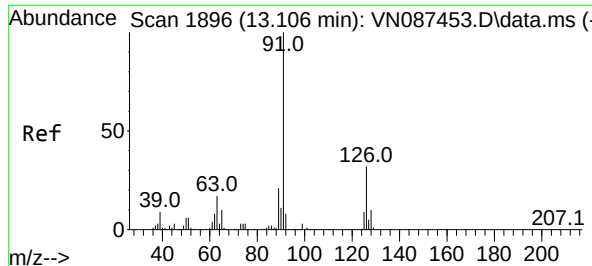
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#74  
n-propylbenzene  
Concen: 20.382 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 526811  
Ion Ratio Lower Upper  
91 100  
120 20.9 0.0 41.8





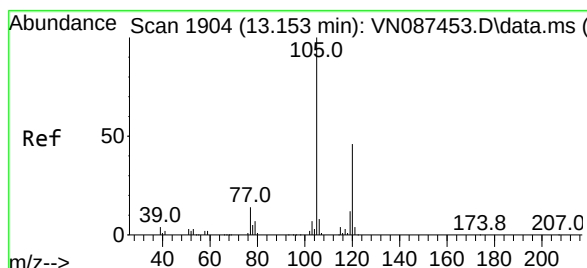
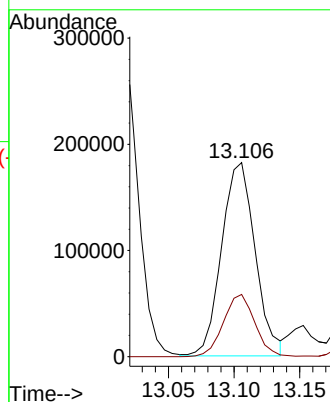
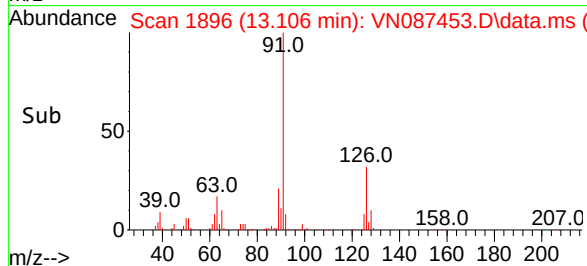
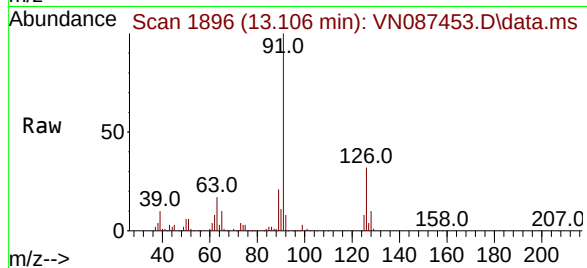
#75  
2-Chlorotoluene  
Concen: 20.409 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 91 Resp: 324478  
Ion Ratio Lower Upper  
91 100  
126 30.2 0.0 60.4

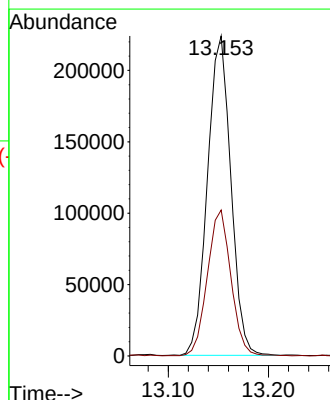
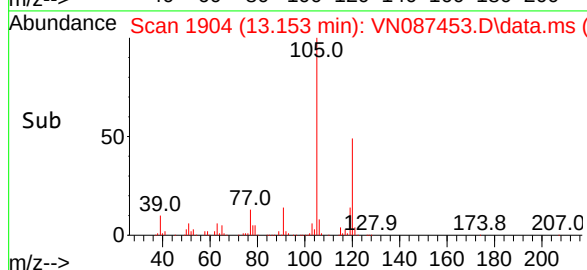
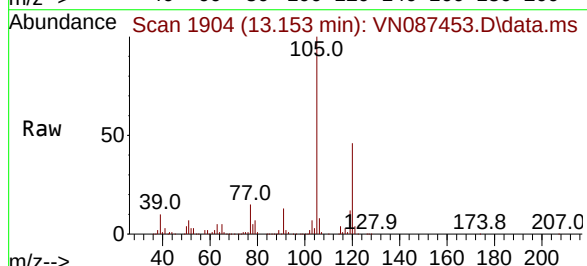
Manual Integrations  
APPROVED

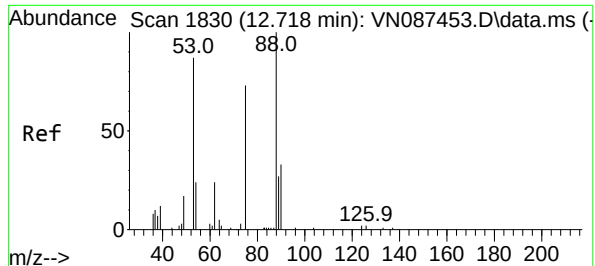
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 20.488 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 363042  
Ion Ratio Lower Upper  
105 100  
120 45.6 0.0 91.2





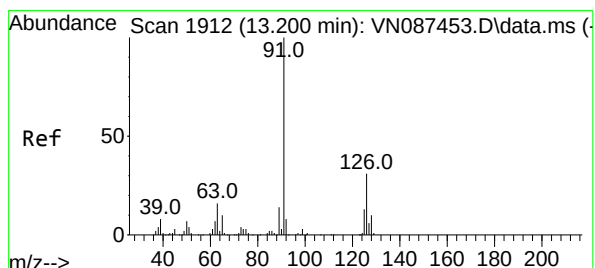
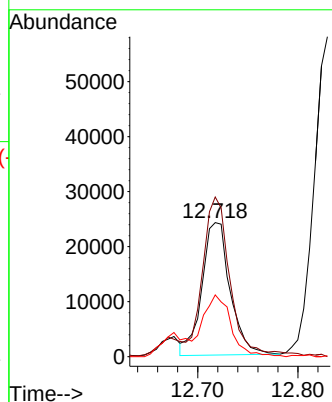
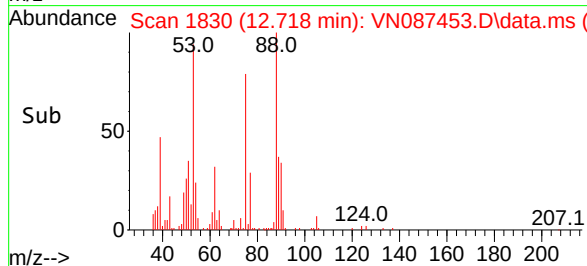
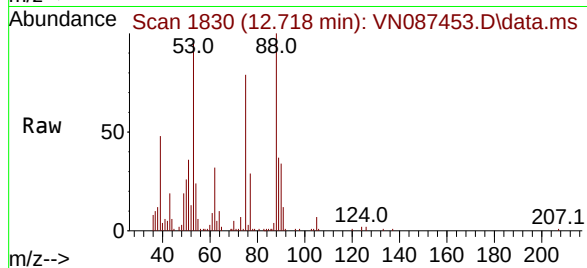
#77  
t-1,4-Dichloro-2-butene  
Concen: 18.843 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 75 Resp: 47119  
Ion Ratio Lower Upper  
75 100  
53 117.9 59.0 176.8  
89 44.3 22.1 66.5

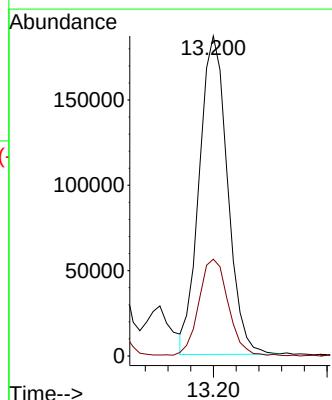
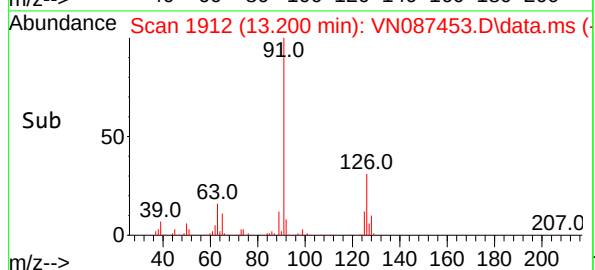
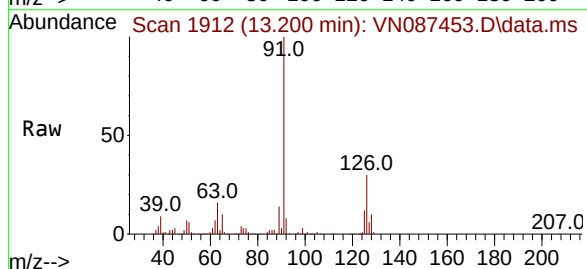
Manual Integrations  
APPROVED

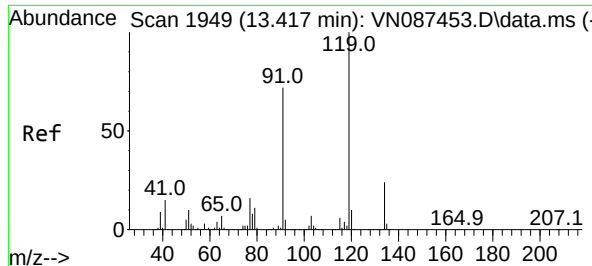
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#78  
4-Chlorotoluene  
Concen: 20.005 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 322316  
Ion Ratio Lower Upper  
91 100  
126 31.6 0.0 63.2





#79

tert-butylbenzene

Concen: 20.462 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

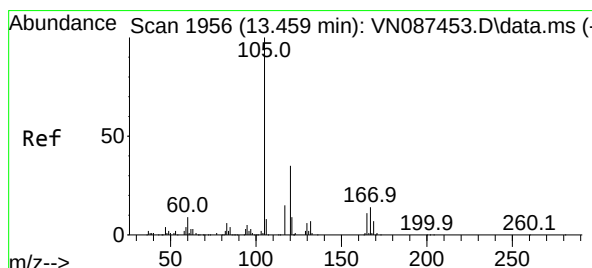
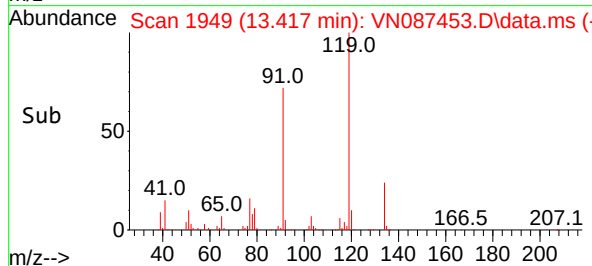
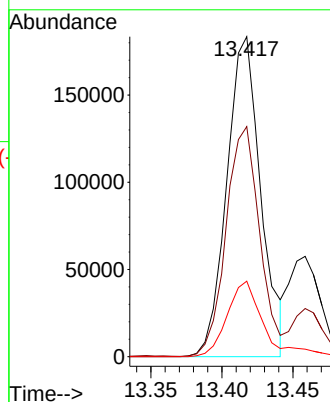
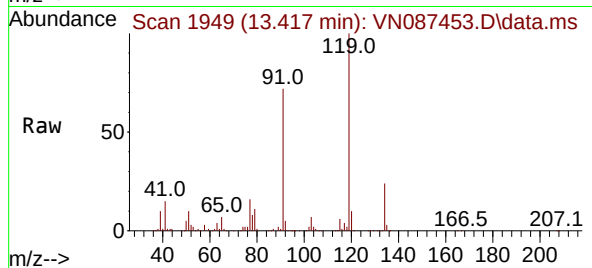
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 119     | 100  |       |       |
| 91      | 70.8 | 0.0   | 141.6 |
| 134     | 22.8 | 0.0   | 45.6  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.238 ug/l

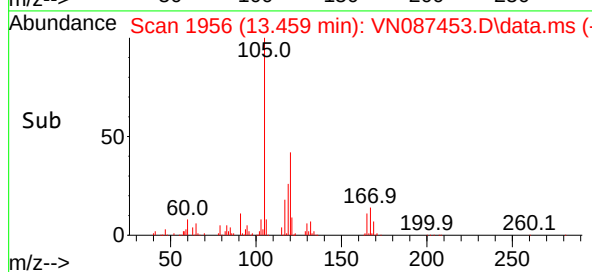
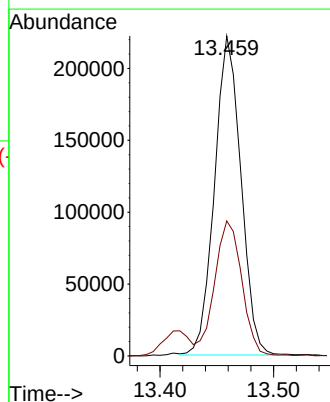
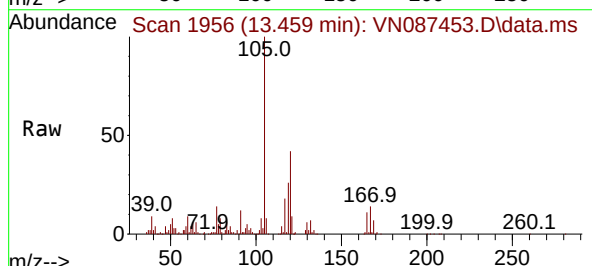
RT: 13.459 min Scan# 1956

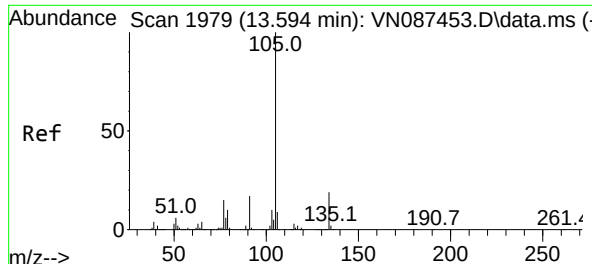
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 105     | 100  |       |       |
| 120     | 43.6 | 0.0   | 87.2  |





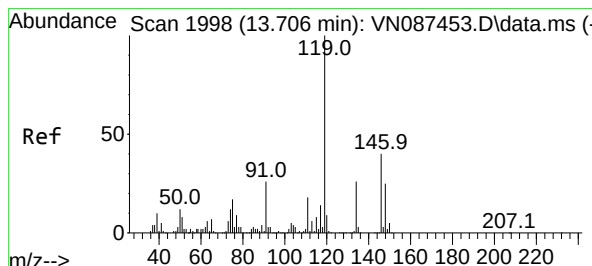
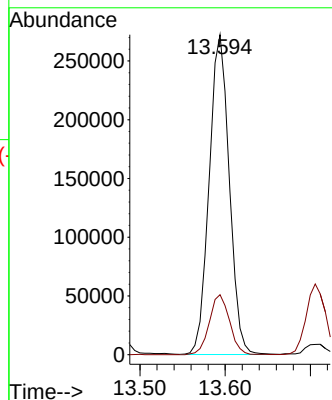
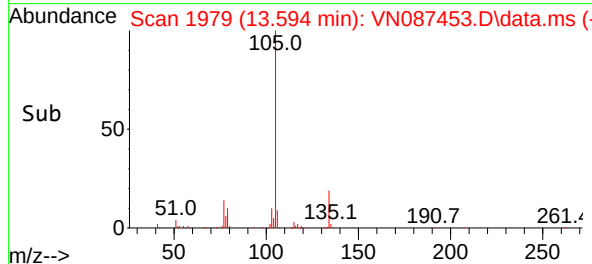
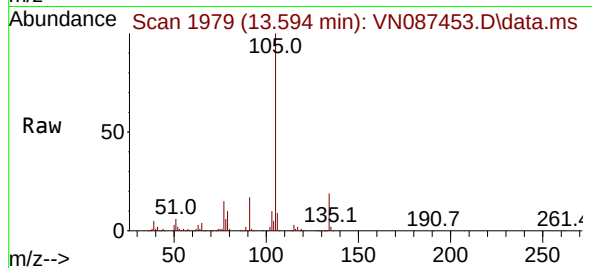
#81  
sec-Butylbenzene  
Concen: 20.577 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:105 Resp: 44754  
Ion Ratio Lower Upper  
105 100  
134 18.8 0.0 37.6

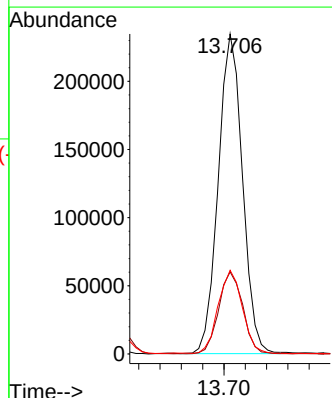
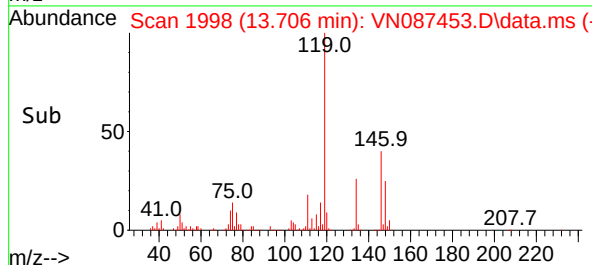
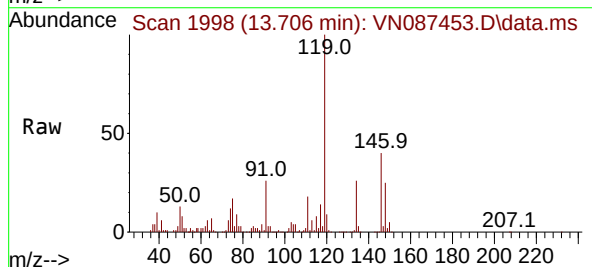
Manual Integrations  
APPROVED

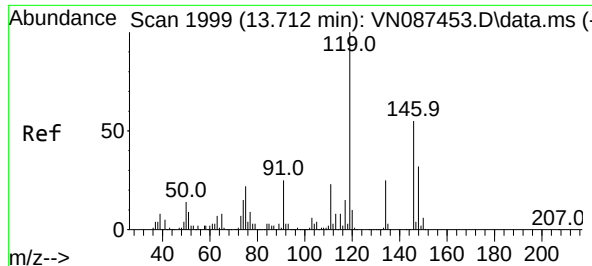
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#82  
p-Isopropyltoluene  
Concen: 20.486 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

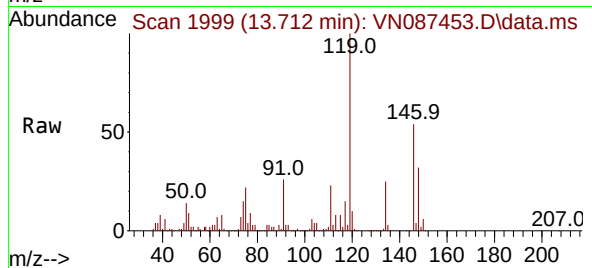
Tgt Ion:119 Resp: 369955  
Ion Ratio Lower Upper  
119 100  
134 25.7 0.0 51.4  
91 26.0 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 20.412 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

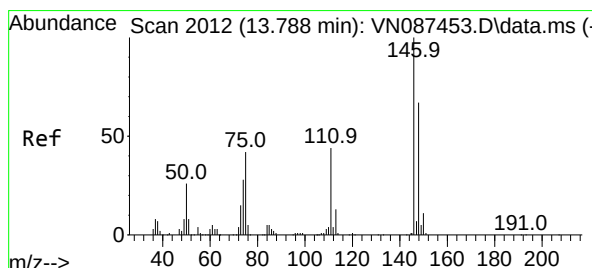
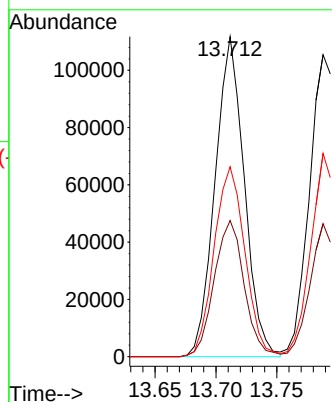
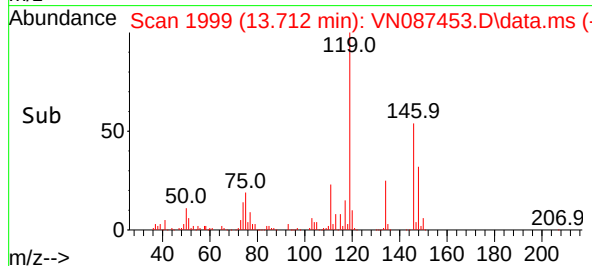
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion:146 Resp: 186482  
Ion Ratio Lower Upper  
146 100  
111 43.7 21.9 65.5  
148 62.6 31.3 93.9

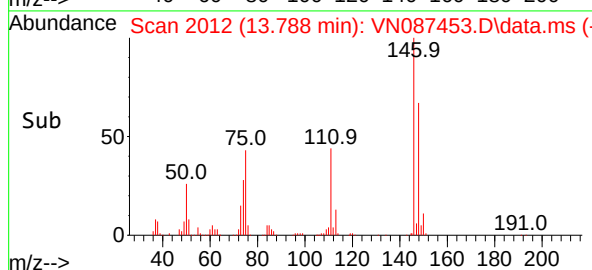
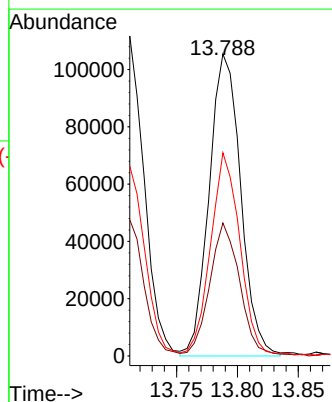
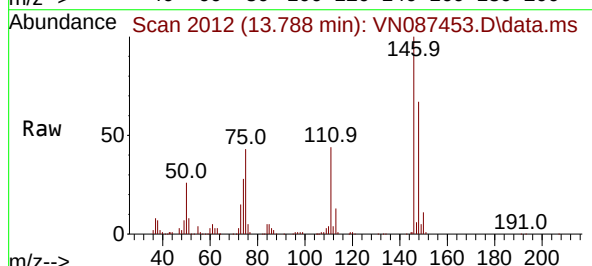
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APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

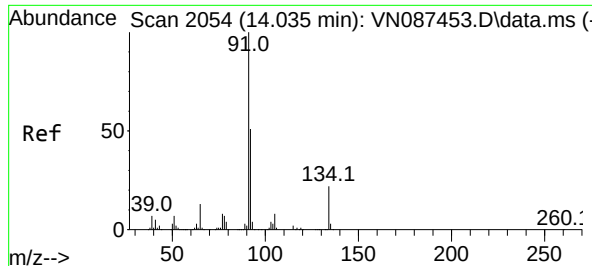


#84  
1,4-Dichlorobenzene  
Concen: 20.538 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:146 Resp: 190232  
Ion Ratio Lower Upper  
146 100  
111 42.1 21.1 63.1  
148 62.9 31.4 94.3

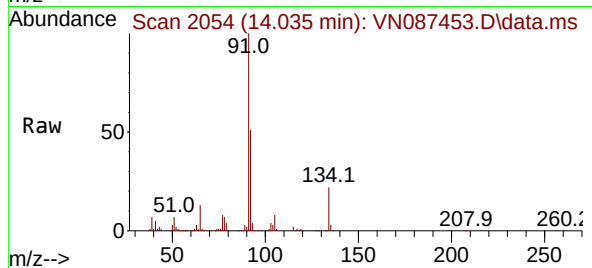






#85  
n-Butylbenzene  
Concen: 20.569 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

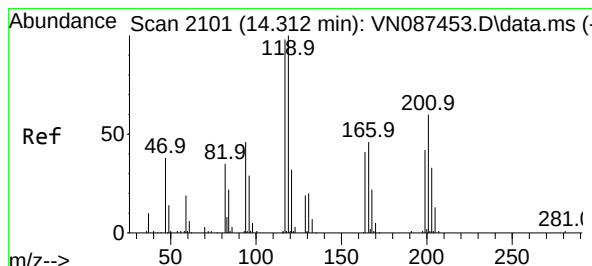
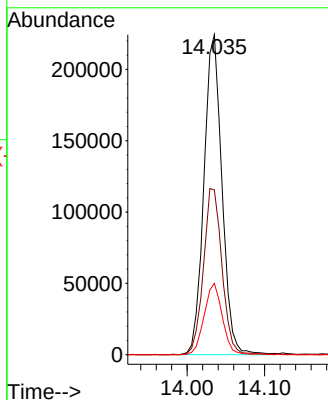
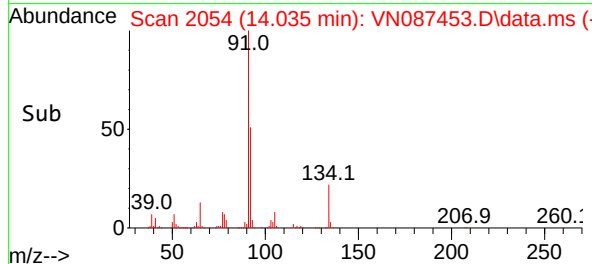
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 91 Resp: 363428  
Ion Ratio Lower Upper  
91 100  
92 53.3 0.0 106.6  
134 22.2 0.0 44.4

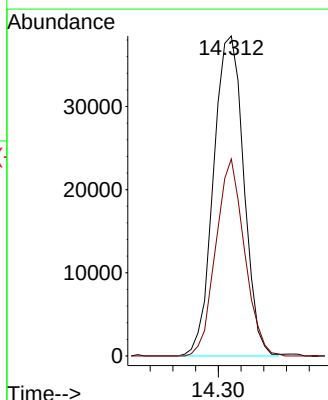
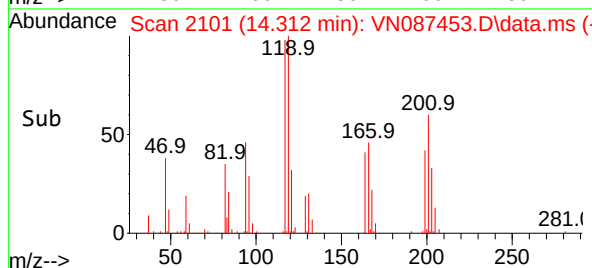
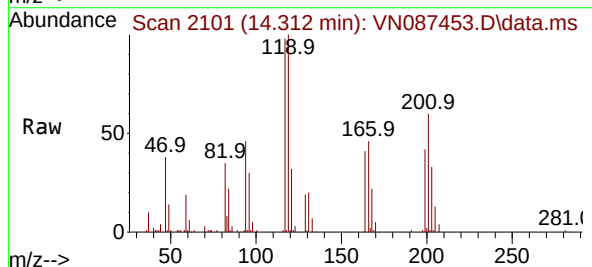
Manual Integrations  
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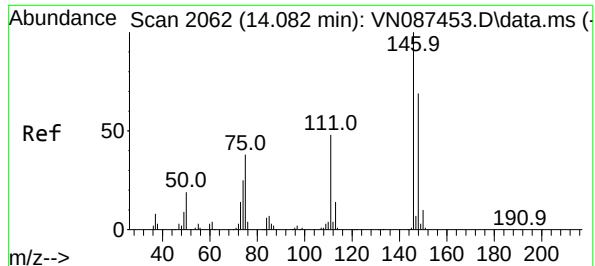
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#86  
Hexachloroethane  
Concen: 20.189 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:117 Resp: 71198  
Ion Ratio Lower Upper  
117 100  
201 58.3 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 20.539 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 17911

Ion Ratio Lower Upper

146 100

111 45.8 22.9 68.7

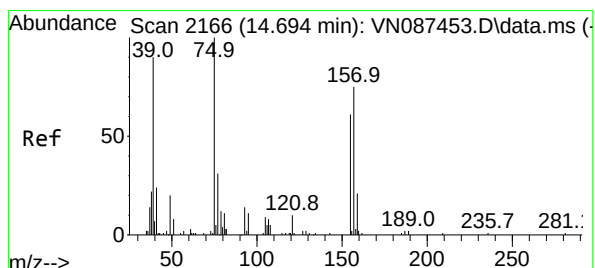
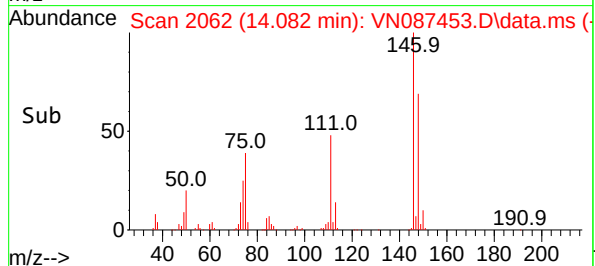
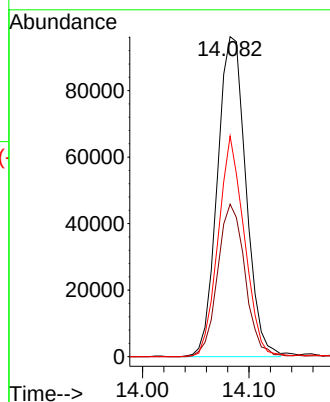
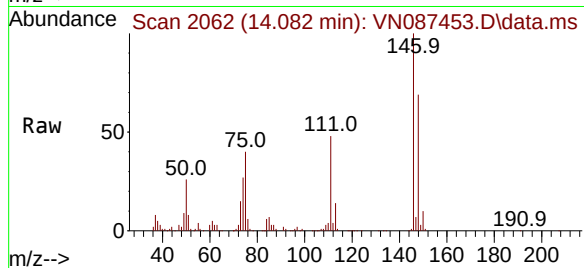
148 63.1 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.672 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

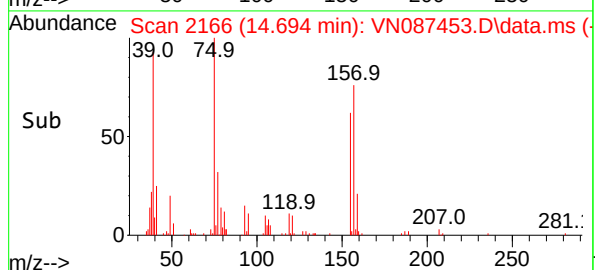
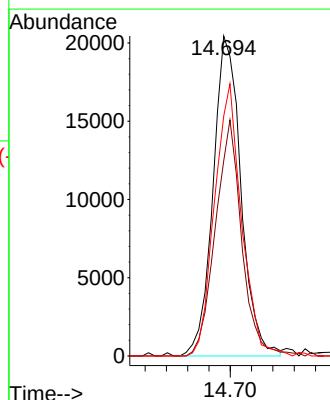
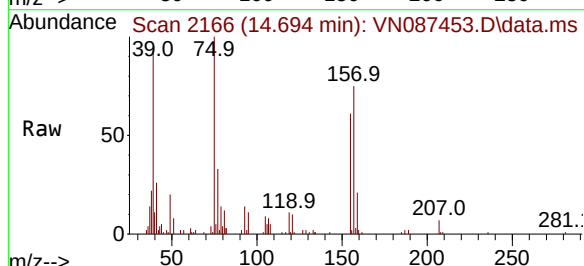
Tgt Ion: 75 Resp: 37135

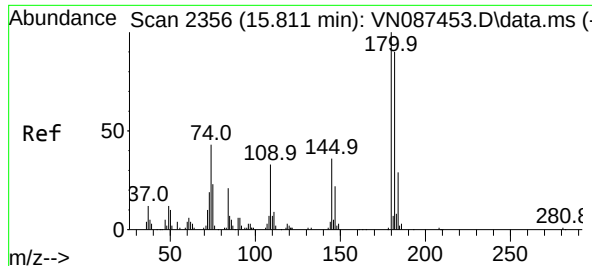
Ion Ratio Lower Upper

75 100

155 69.6 55.7 83.5

157 82.2 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.037 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:180 Resp: 104420

Ion Ratio Lower Upper

180 100

182 93.7 75.0 112.4

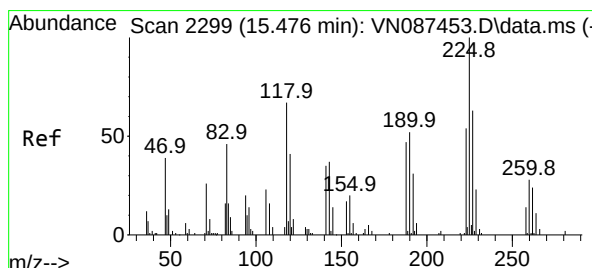
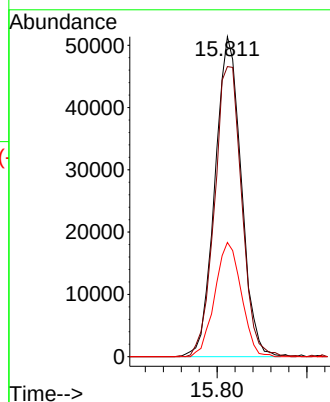
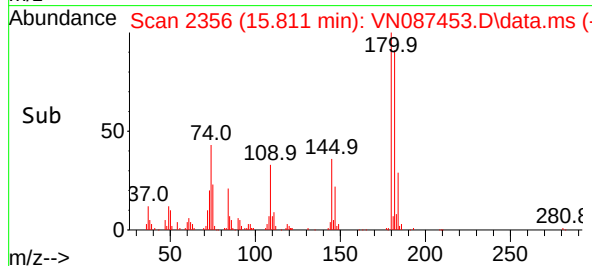
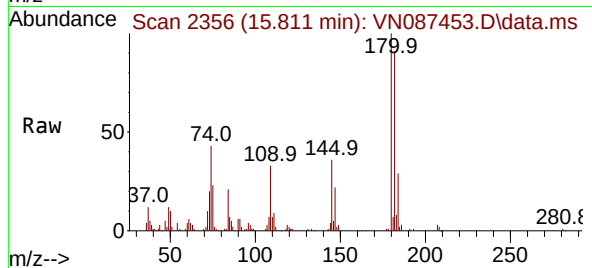
145 35.8 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 20.349 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

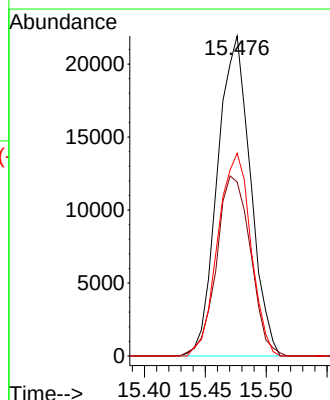
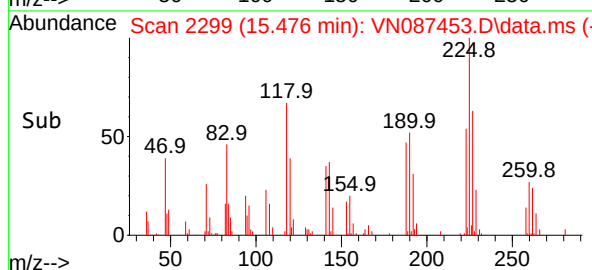
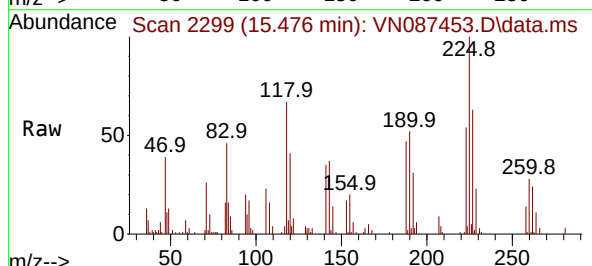
Tgt Ion:225 Resp: 41238

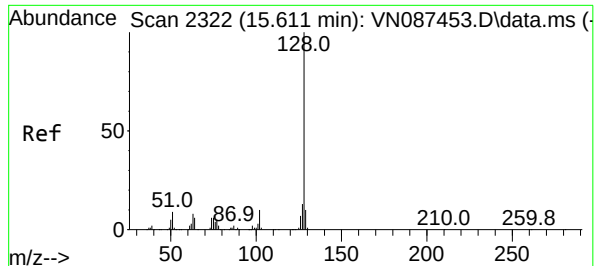
Ion Ratio Lower Upper

225 100

223 58.0 0.0 116.0

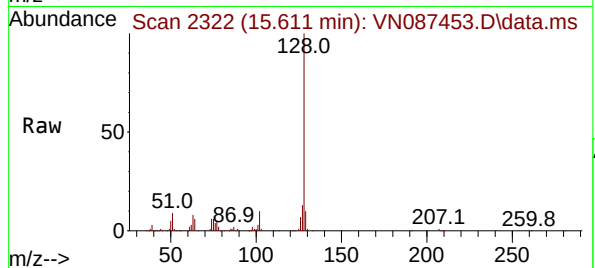
227 63.5 0.0 127.0





#91  
Naphthalene  
Concen: 20.241 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

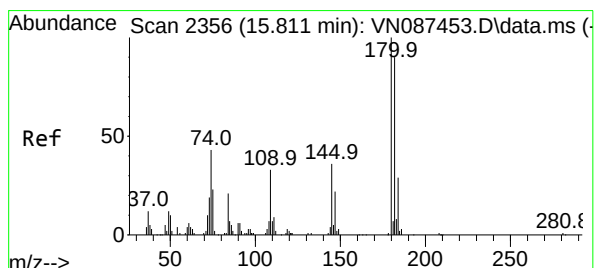
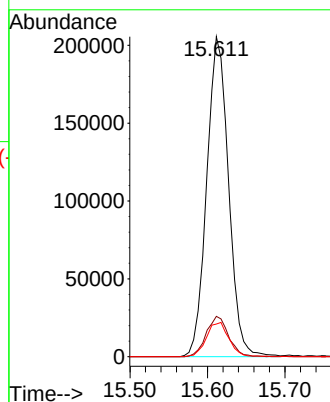
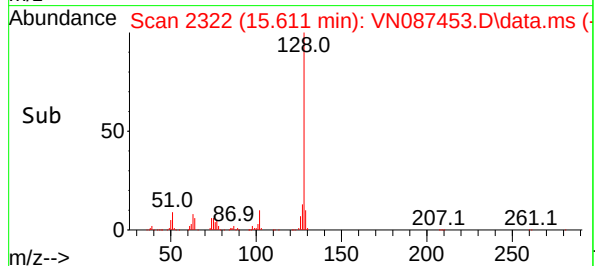
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion:128 Resp: 402240  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.4  
129 11.1 8.9 13.3

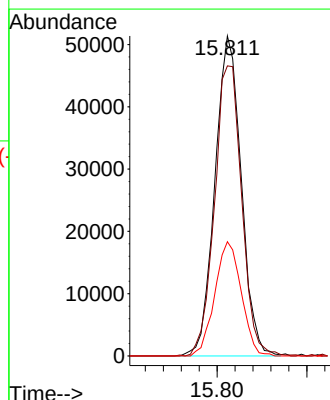
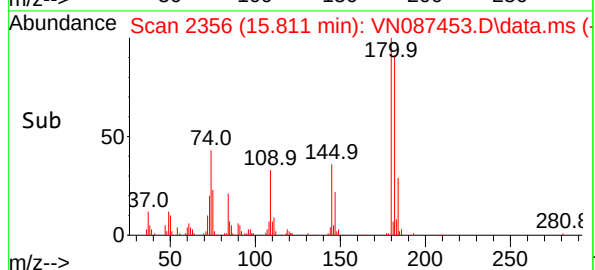
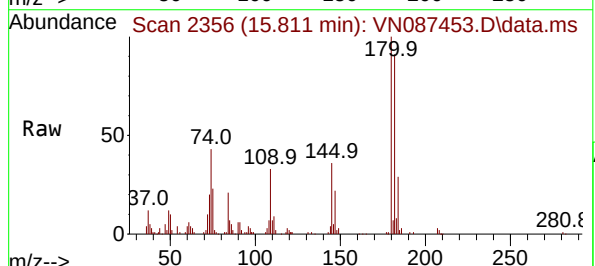
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 20.037 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:180 Resp: 104426  
Ion Ratio Lower Upper  
180 100  
182 93.7 0.0 187.4  
145 35.8 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087454.D  
 Acq On : 05 Aug 2025 14:19  
 Operator : JC\MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:28:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 76249               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 418905              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 385657              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 211654              | 30.095  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.333% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 201264              | 30.325  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.067% |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 534559              | 30.124  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 100.400% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 234078              | 47.020  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 229410              | 44.915  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.542          | 62   | 242082              | 44.687  | ug/l   | 93       |
| 5) Bromomethane              | 2.977          | 94   | 136035              | 46.393  | ug/l   | 84       |
| 6) Chloroethane              | 3.136          | 64   | 153939              | 44.067  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 344998              | 44.251  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 147110              | 45.292  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 176341              | 44.354  | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 182951              | 43.809  | ug/l   | 94       |
| 11) Methyl Iodide            | 4.577          | 142  | 154678              | 47.274  | ug/l   | 99       |
| 12) Methyl Acetate           | 5.012          | 43   | 351071              | 45.556  | ug/l   | 98       |
| 13) Acrolein                 | 4.177          | 56   | 262498              | 223.074 | ug/l   | 96       |
| 14) Acrylonitrile            | 5.706          | 53   | 757874              | 225.213 | ug/l   | 100      |
| 15) Acetone                  | 4.424          | 58   | 212947              | 221.472 | ug/l   | 95       |
| 16) Carbon Disulfide         | 4.700          | 76   | 576164              | 44.477  | ug/l   | 98       |
| 17) Allyl chloride           | 5.012          | 41   | 392451              | 46.106  | ug/l   | 97       |
| 18) Methylene Chloride       | 5.265          | 84   | 239778              | 44.610  | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 219724              | 44.245  | ug/l   | 98       |
| 20) Diisopropyl ether        | 6.659          | 45   | 877578              | 45.278  | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 453264              | 45.221  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 273116              | 44.697  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 323387              | 226.154 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 859723              | 45.179  | ug/l   | 99       |
| 25) Chloroform               | 7.947          | 83   | 475045              | 45.405  | ug/l   | 98       |
| 26) Cyclohexane              | 8.241          | 56   | 361178              | 45.006  | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 310679              | 45.472  | ug/l   | 97       |
| 30) 2-Butanone               | 7.471          | 43   | 1165660             | 231.454 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 402451              | 45.671  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 398348              | 45.714  | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 330997              | 45.723  | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 984335              | 45.639  | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.765          | 41   | 260104              | 47.860  | ug/l   | 99       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 393795              | 45.169  | ug/l   | 98       |
| 37) Trichloroethene          | 9.335          | 130  | 217082              | 45.693  | ug/l   | 95       |
| 38) Methylcyclohexane        | 9.582          | 83   | 357253              | 45.072  | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 249627              | 45.142  | ug/l   | 97       |
| 40) Dibromomethane           | 9.688          | 93   | 187857              | 45.278  | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 391953              | 45.463  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.589          | 43   | 3796699             | 228.920 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087454.D  
 Acq On : 05 Aug 2025 14:19  
 Operator : JC\MD  
 Sample : VSTDIC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:28:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 436753   | 45.558  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 755567   | 45.813  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 98035    | 932.433 | ug/l   | 97       |
| 46) Methyl methacrylate       | 9.665  | 41   | 351323   | 45.128  | ug/l   | 98       |
| 47) n-amyl Acetate            | 12.494 | 43   | 399157m  | 48.133  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 431587   | 46.014  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 439121   | 46.521  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 240010   | 45.786  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 435415   | 47.164  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 433869   | 45.941  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.335 | 129  | 280542   | 46.341  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 254243   | 45.688  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 1118997  | 230.244 | ug/l   | 100      |
| 56) Bromoform                 | 12.559 | 173  | 186820   | 46.656  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 2290380  | 230.864 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 1620747  | 240.439 | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 173500   | 46.177  | ug/l   | 93       |
| 62) Toluene                   | 10.612 | 91   | 1085878  | 45.620  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 662306   | 45.283  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 233942   | 45.493  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 1215937  | 45.832  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.047 | 106  | 902756   | 92.702  | ug/l   | 97       |
| 68) o-Xylene                  | 12.376 | 106  | 437515   | 45.667  | ug/l   | 99       |
| 69) Styrene                   | 12.388 | 104  | 759493   | 46.428  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 1111500  | 45.666  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 379527   | 45.508  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 374092m  | 43.638  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 255773   | 45.330  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 1391658  | 45.781  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 853763   | 45.659  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 961117   | 46.118  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 141496   | 48.111  | ug/l   | 93       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 875292   | 46.192  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.418 | 119  | 813723   | 46.311  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 971243   | 46.640  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 1188558  | 46.465  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 982310   | 46.251  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 499720   | 46.509  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 507658   | 46.603  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 972192   | 46.785  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 192686   | 46.458  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 482093   | 47.005  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 95570    | 45.236  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 279770   | 45.643  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 106360   | 44.624  | ug/l   | 97       |
| 91) Naphthalene               | 15.611 | 128  | 1076915  | 46.078  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 279770   | 45.643  | ug/l   | 99       |

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

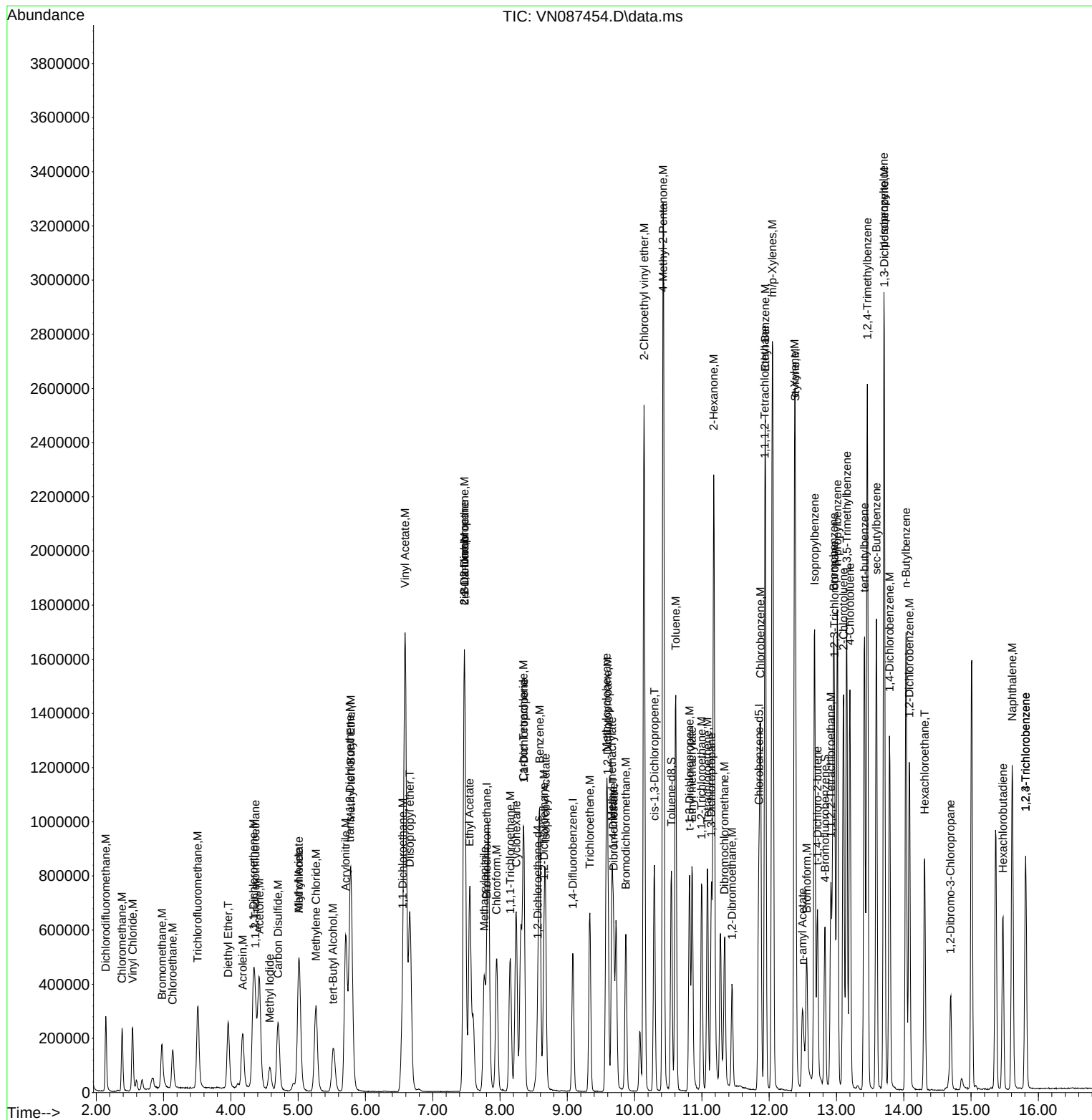
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Data File : VN087454.D  
Acq On : 05 Aug 2025 14:19  
Operator : JC\MD  
Sample : VSTDICC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

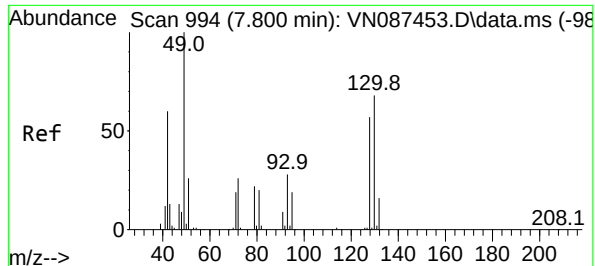
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC050

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

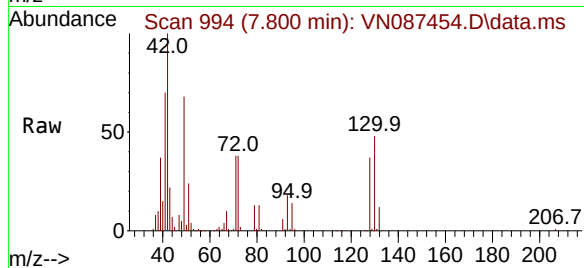
Quant Time: Aug 06 01:28:33 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

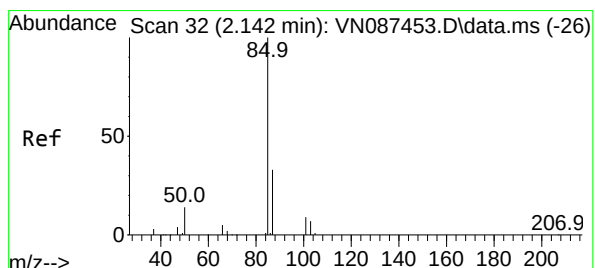
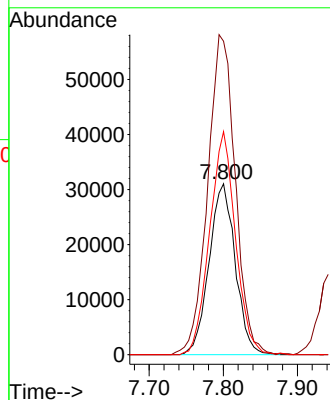
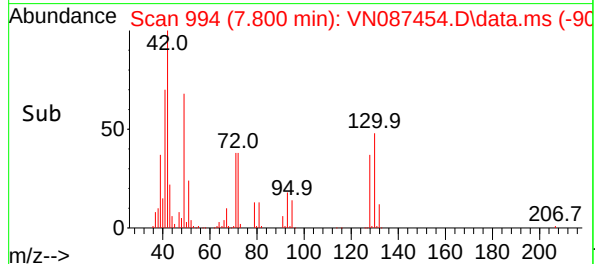
Instrument :  
MSVOA\_N  
Client Sample Id :  
VSTDIC050



Tgt Ion: 128 Resp: 76249  
Ion Ratio Lower Upper  
128 100  
49 197.4 0.0 494.8  
130 128.9 0.0 321.5

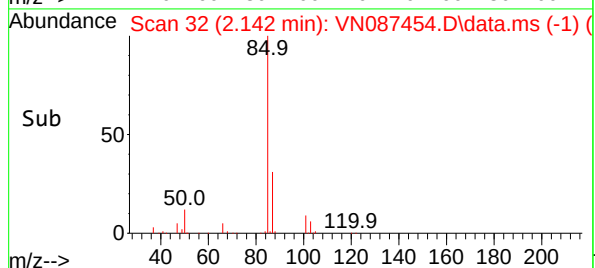
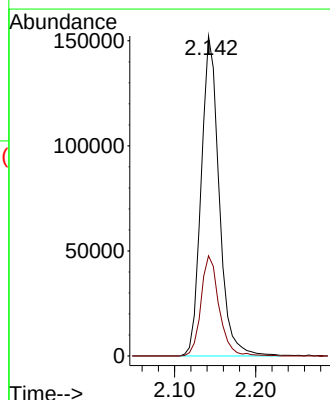
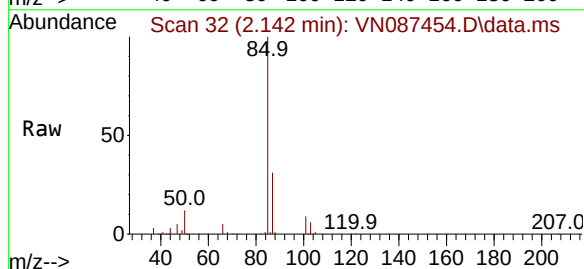
Manual Integrations  
APPROVED

Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025

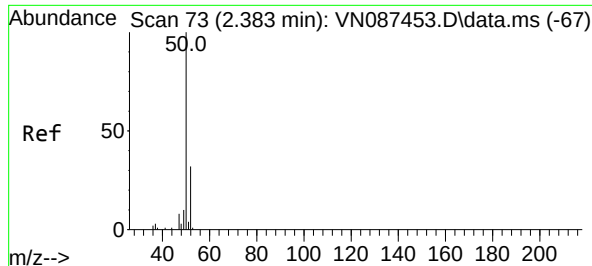


#2  
Dichlorodifluoromethane  
Concen: 47.020 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 85 Resp: 234078  
Ion Ratio Lower Upper  
85 100  
87 31.3 16.4 49.2

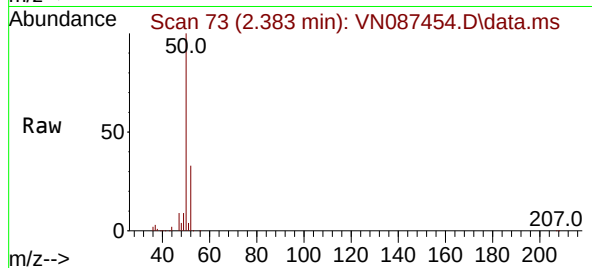






#3  
Chloromethane  
Concen: 44.915 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

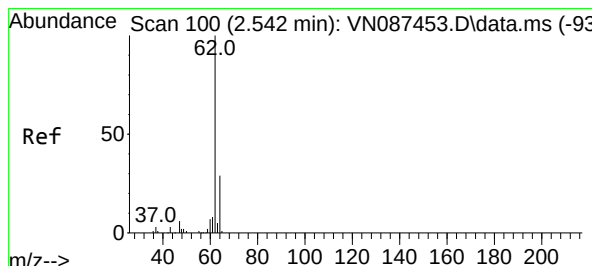
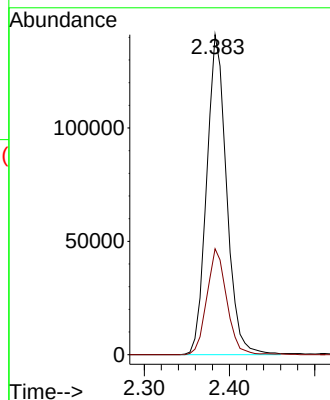
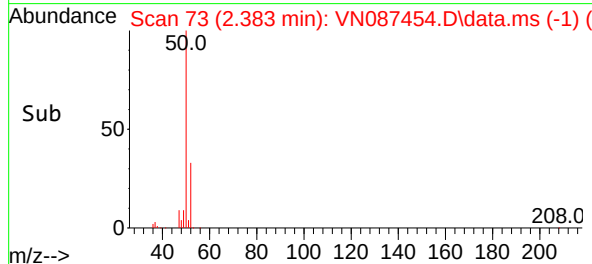
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 50 Resp: 229410  
Ion Ratio Lower Upper  
50 100  
52 33.1 25.8 38.6

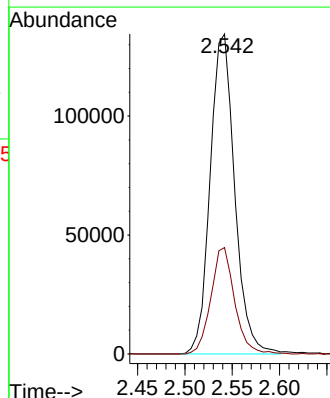
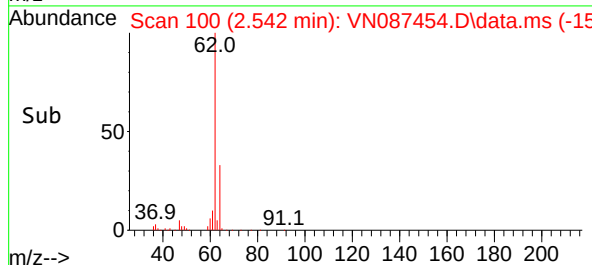
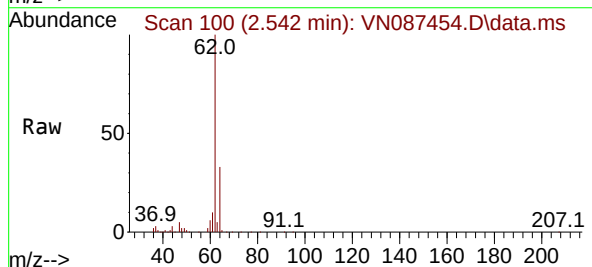
Manual Integrations  
APPROVED

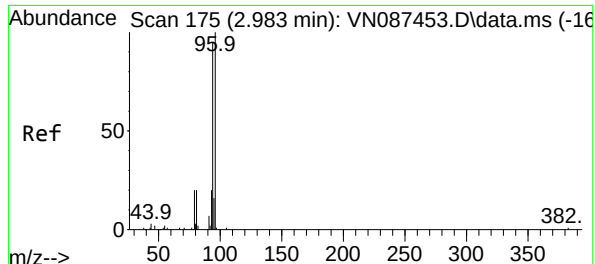
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#4  
Vinyl Chloride  
Concen: 44.687 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

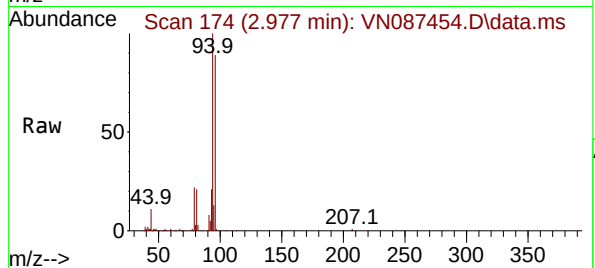
Tgt Ion: 62 Resp: 242082  
Ion Ratio Lower Upper  
62 100  
64 33.3 23.4 35.2





#5  
Bromomethane  
Concen: 46.393 ug/l  
RT: 2.977 min Scan# 174  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

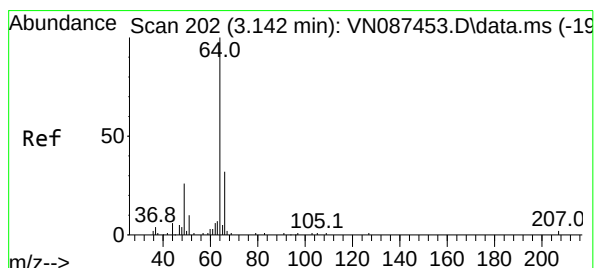
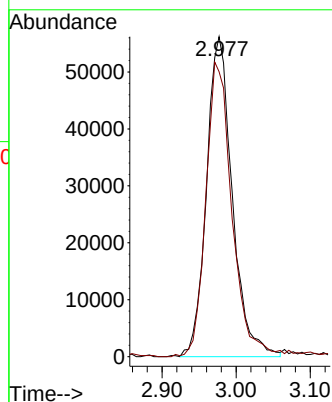
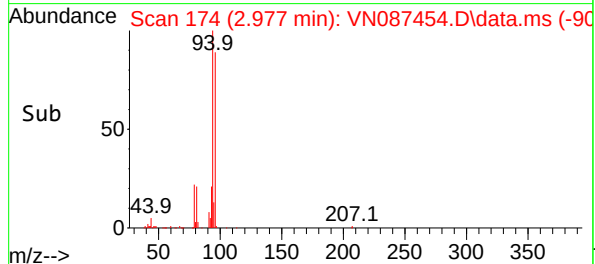
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 94 Resp: 13603  
Ion Ratio Lower Upper  
94 100  
96 88.7 84.2 126.4

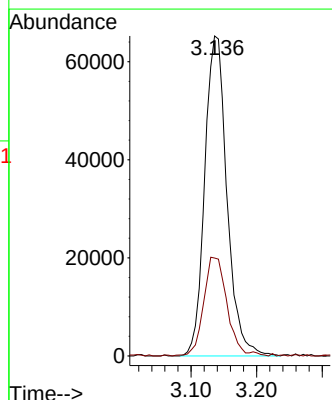
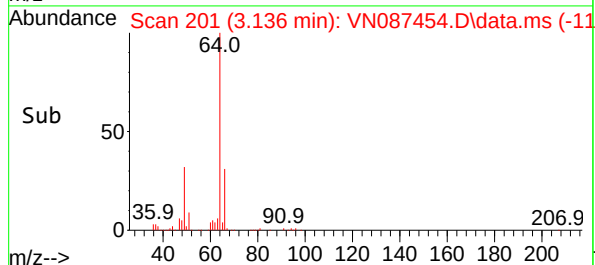
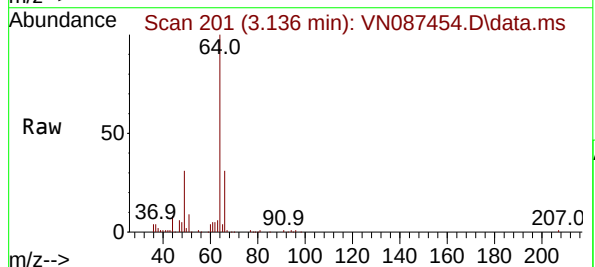
Manual Integrations  
APPROVED

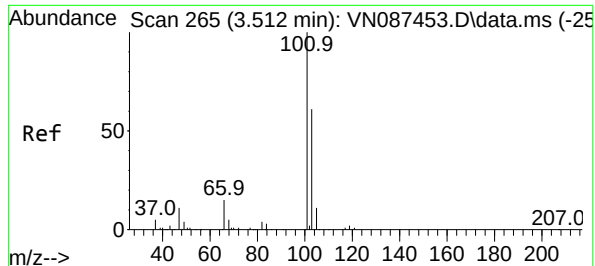
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#6  
Chloroethane  
Concen: 44.067 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

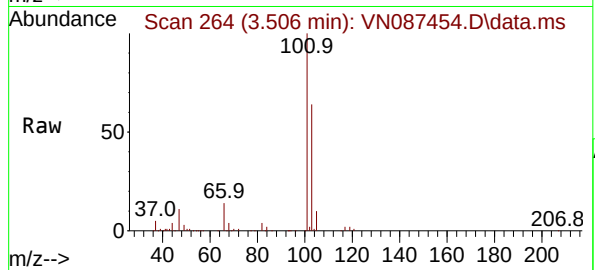
Tgt Ion: 64 Resp: 153939  
Ion Ratio Lower Upper  
64 100  
66 30.3 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 44.251 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

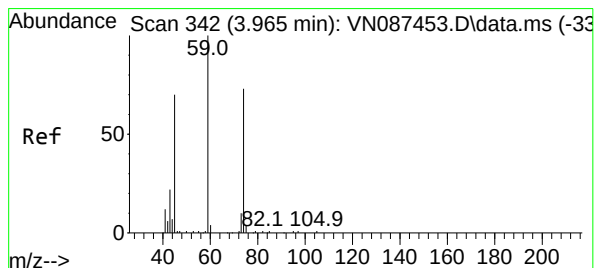
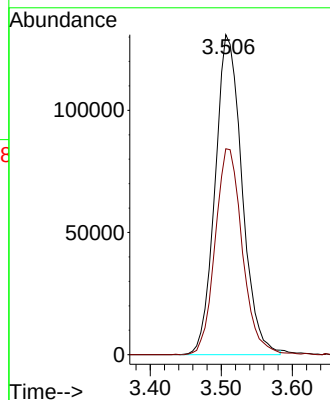
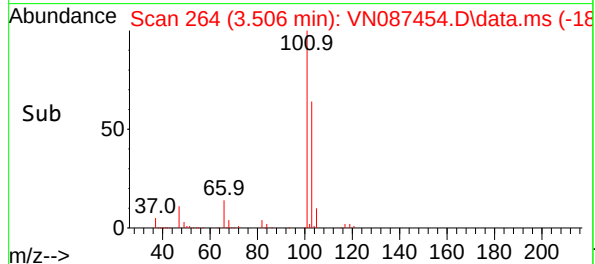
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion:101 Resp: 344998  
Ion Ratio Lower Upper  
101 100  
103 64.3 49.2 73.8

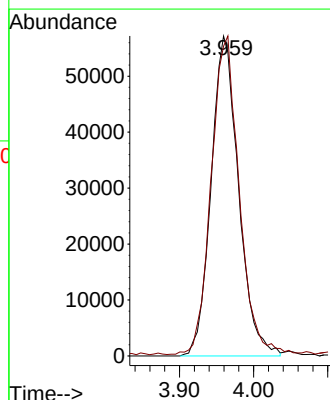
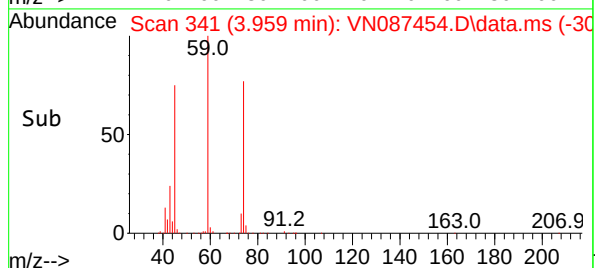
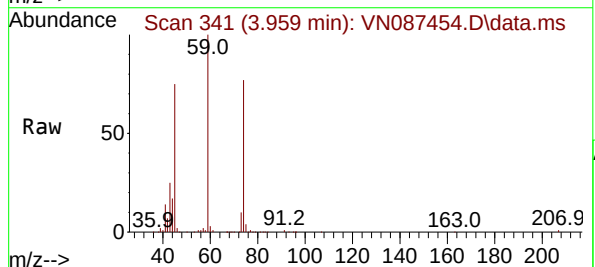
Manual Integrations  
APPROVED

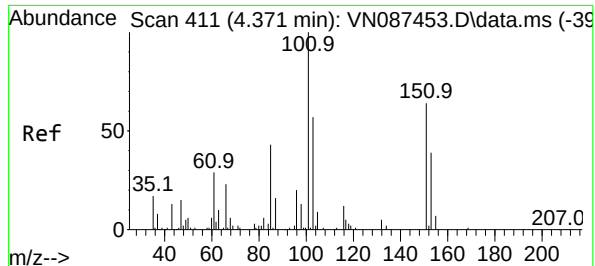
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 45.292 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 74 Resp: 147110  
Ion Ratio Lower Upper  
74 100  
45 99.5 20.1 180.9





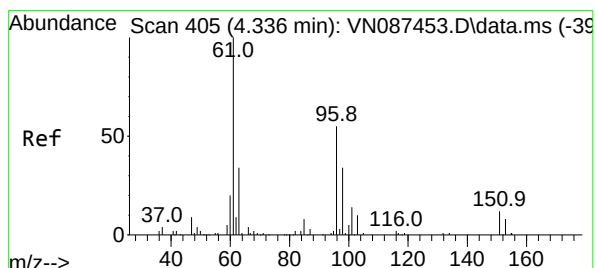
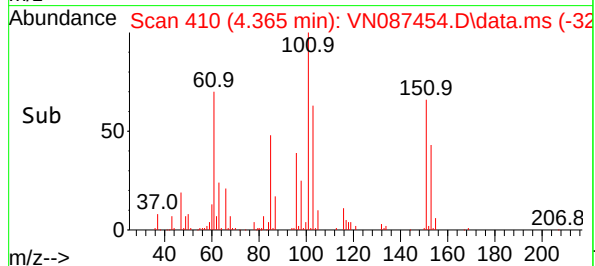
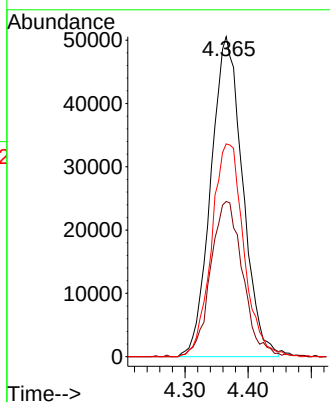
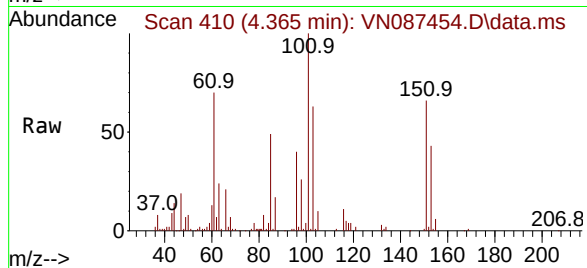
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1,1,2-Trichlorotrifluoroethane  
Concen: 44.354 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:101 Resp: 17634  
Ion Ratio Lower Upper  
101 100  
85 48.9 0.0 57.0  
151 67.5 0.0 134.2

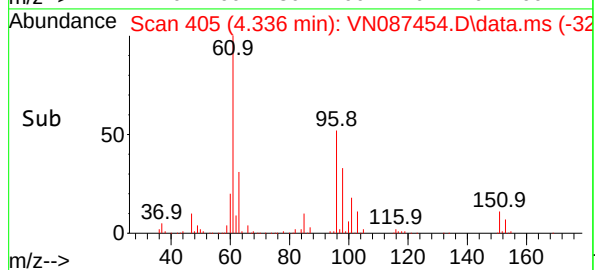
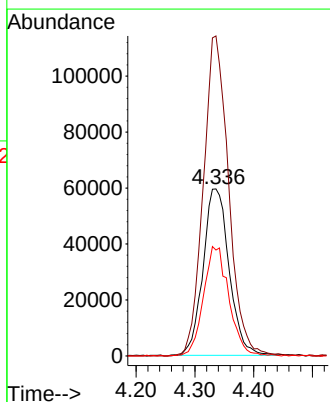
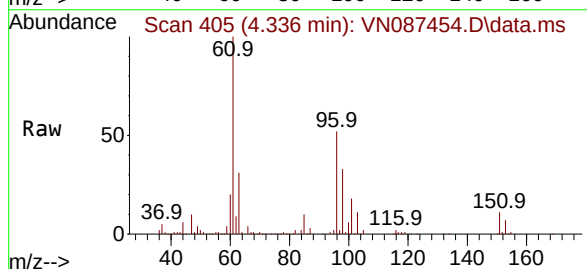
Manual Integrations  
APPROVED

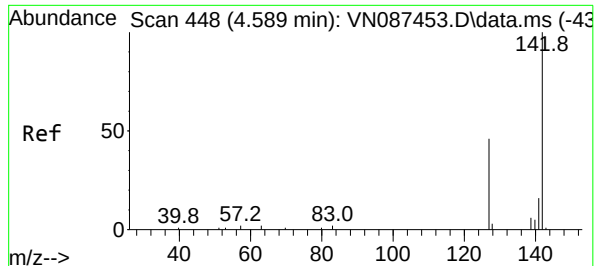
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#10  
1,1-Dichloroethene  
Concen: 43.809 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 96 Resp: 182951  
Ion Ratio Lower Upper  
96 100  
61 191.2 144.2 216.4  
98 63.4 49.7 74.5





#11

Methyl Iodide

Concen: 47.274 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087454.D

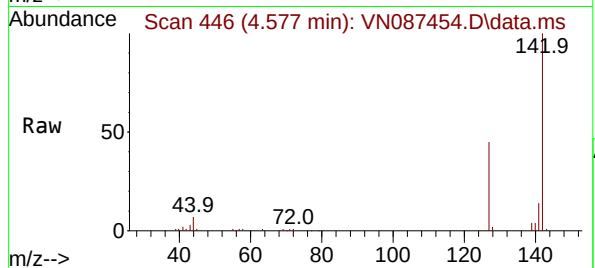
Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050



Tgt Ion:142 Resp: 154678

Ion Ratio Lower Upper

142 100

127 45.2 22.9 68.7

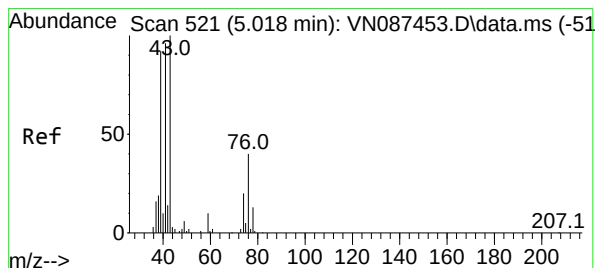
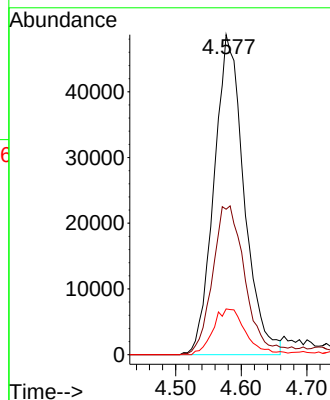
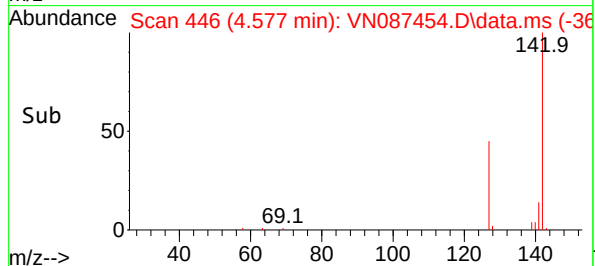
141 14.1 7.7 23.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 45.556 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087454.D

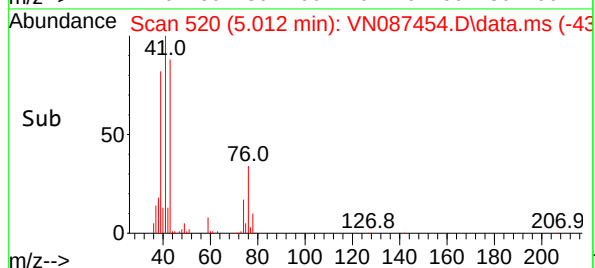
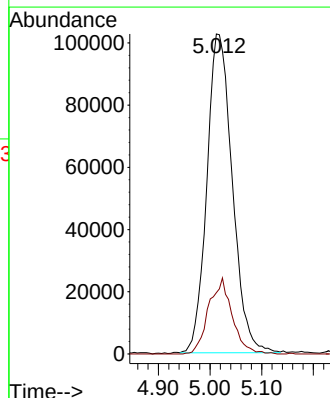
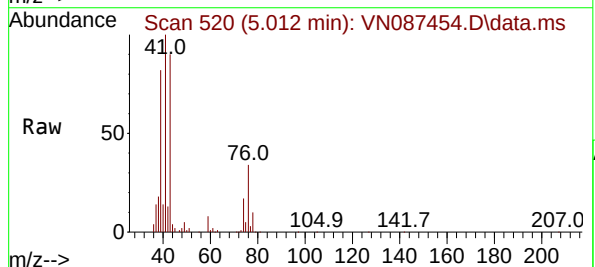
Acq: 05 Aug 2025 14:19

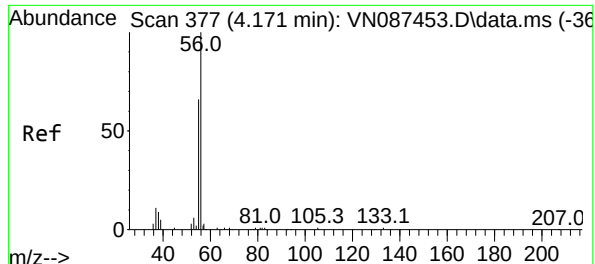
Tgt Ion: 43 Resp: 351071

Ion Ratio Lower Upper

43 100

74 19.2 16.0 24.0





#13

Acrolein

Concen: 223.074 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 56 Resp: 262498

Ion Ratio Lower Upper

56 100

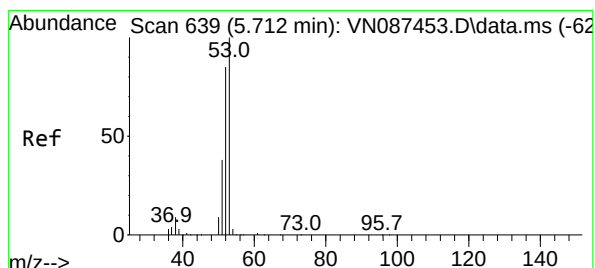
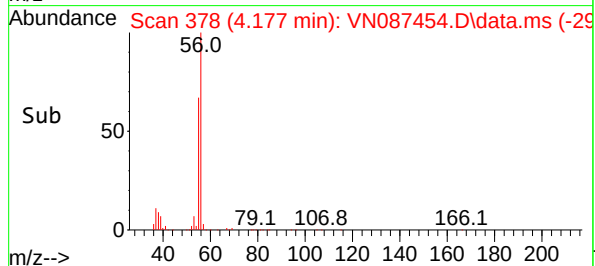
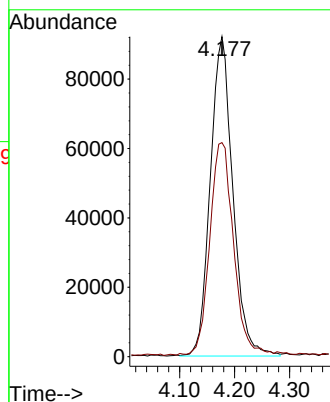
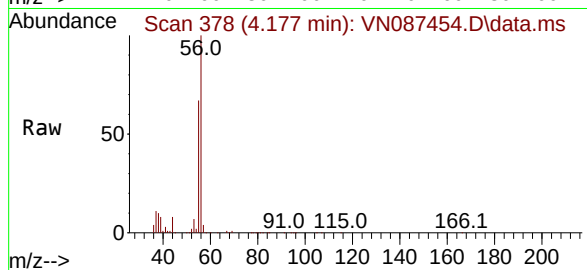
55 68.0 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 225.213 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

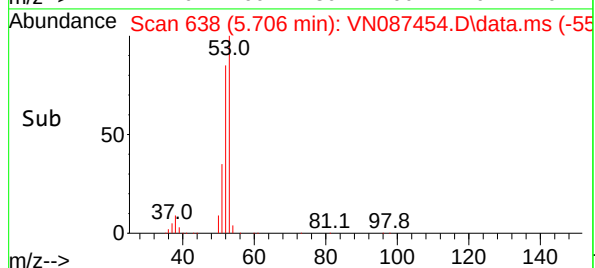
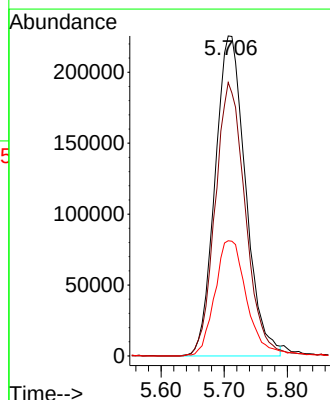
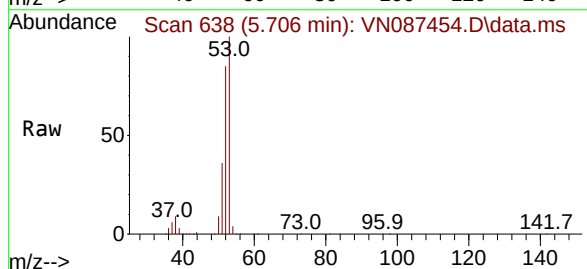
Tgt Ion: 53 Resp: 757874

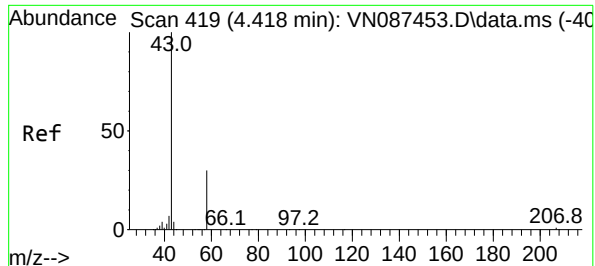
Ion Ratio Lower Upper

53 100

52 84.5 42.4 127.2

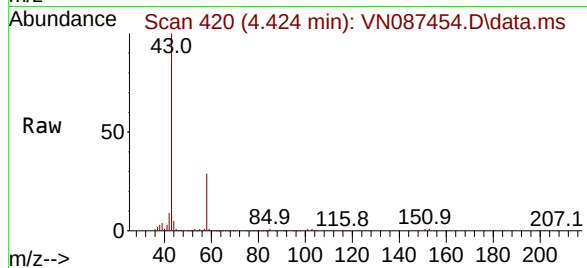
51 37.4 18.5 55.5





#15  
Acetone  
Concen: 221.472 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

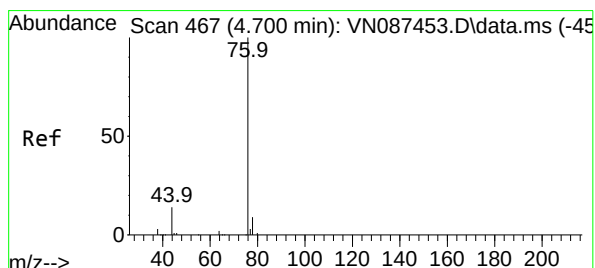
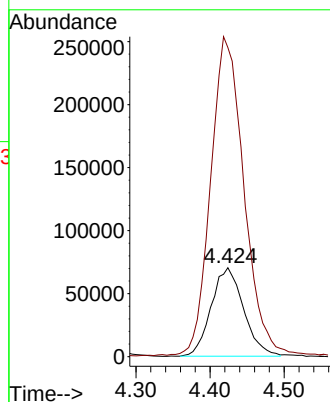
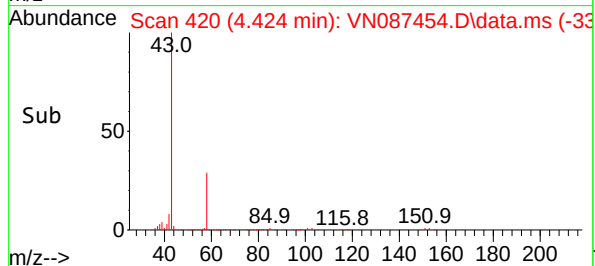
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 58 Resp: 21294  
Ion Ratio Lower Upper  
58 100  
43 345.9 268.9 403.3

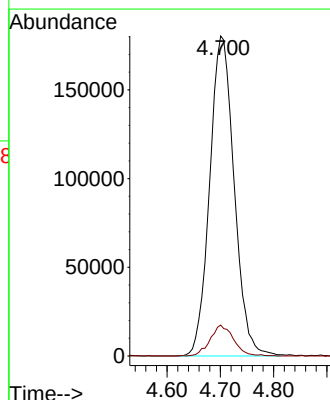
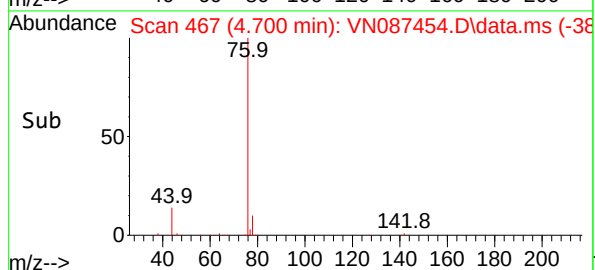
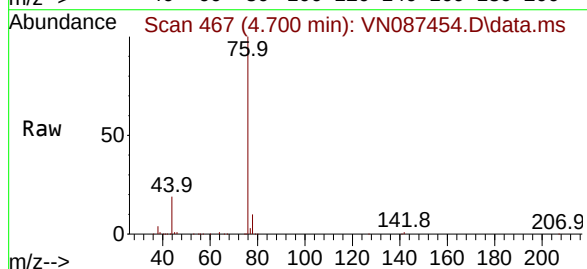
Manual Integrations  
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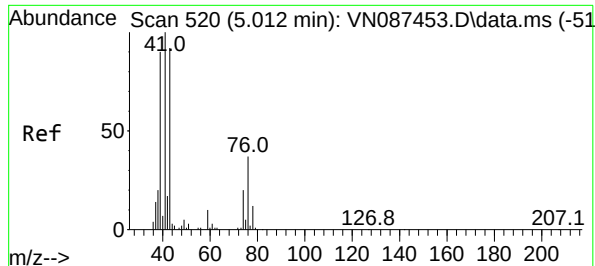
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#16  
Carbon Disulfide  
Concen: 44.477 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 76 Resp: 576164  
Ion Ratio Lower Upper  
76 100  
78 9.7 7.1 10.7





#17

Allyl chloride

Concen: 46.106 ug/l

RT: 5.012 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

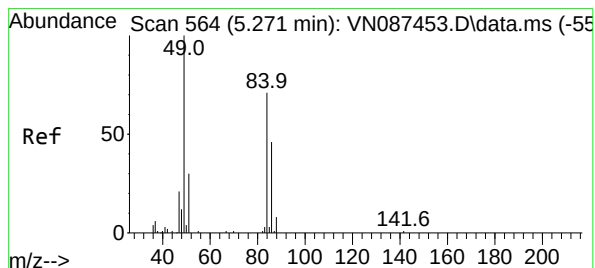
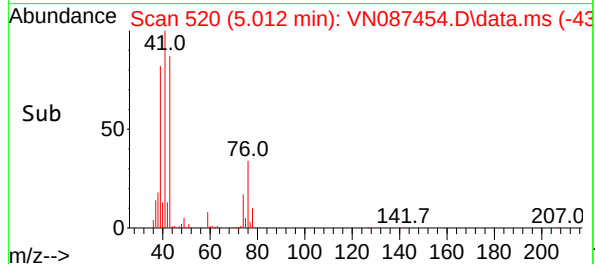
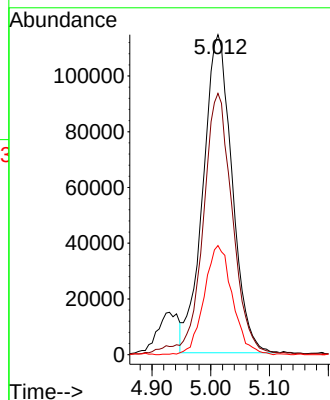
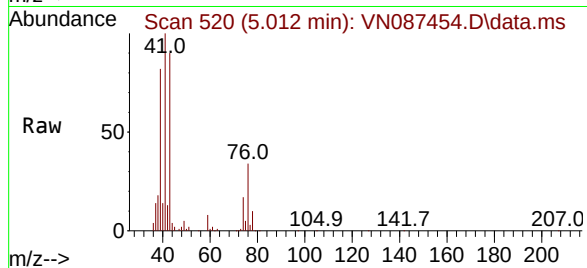
VSTDIC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 39245 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 81.6  | 42.4  | 127.2 |
| 76       | 34.1  | 16.9  | 50.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 44.610 ug/l

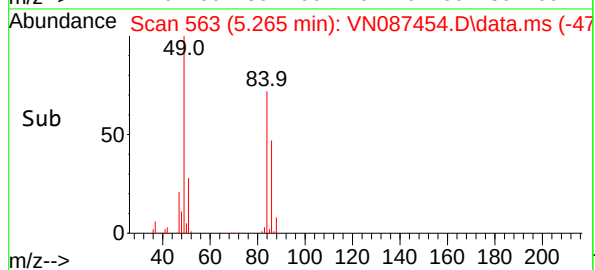
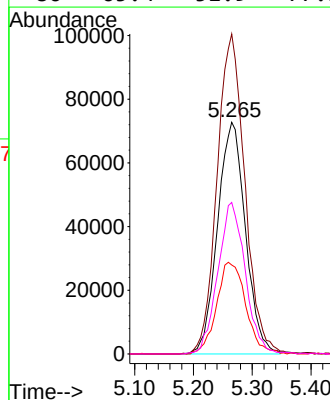
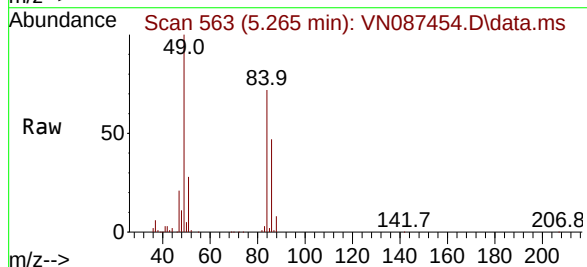
RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

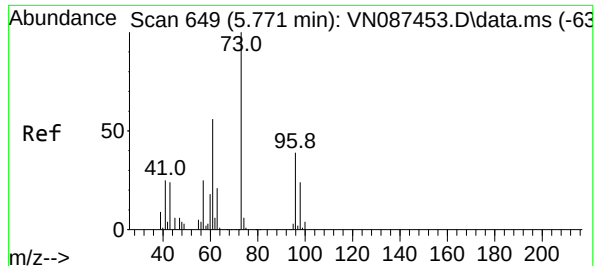
Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 239778 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 138.1 | 112.9 | 169.3  |
| 51       | 38.4  | 33.8  | 50.8   |
| 86       | 65.4  | 51.9  | 77.9   |







#19

trans-1,2-Dichloroethene

Concen: 44.245 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 96 Resp: 219724

Ion Ratio Lower Upper

96 100

61 140.4 114.2 171.4

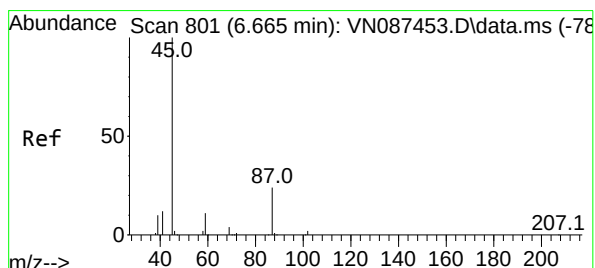
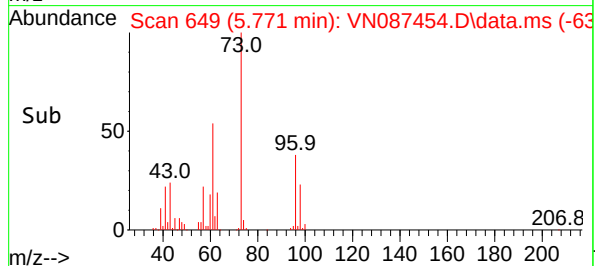
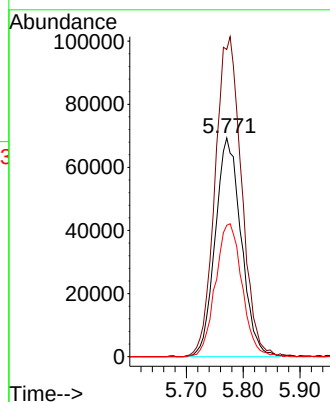
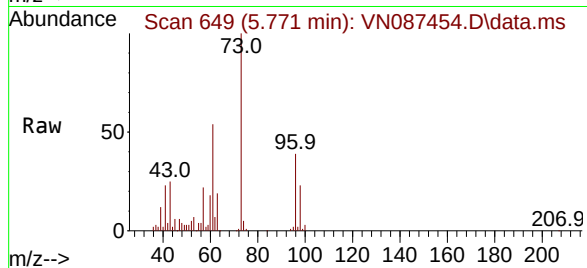
98 60.1 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 45.278 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion: 45 Resp: 877578

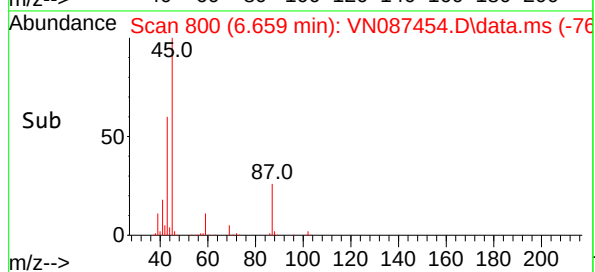
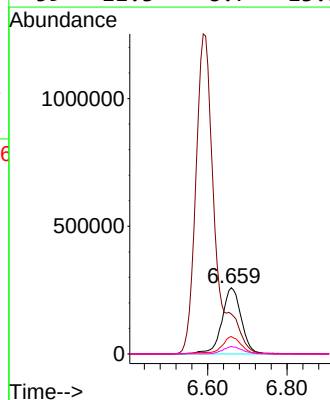
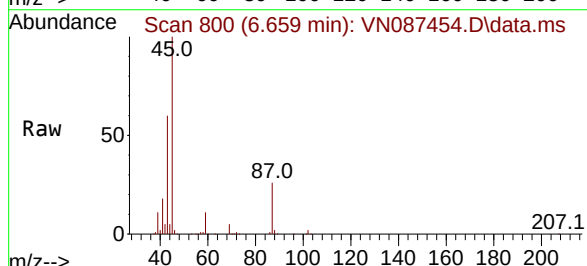
Ion Ratio Lower Upper

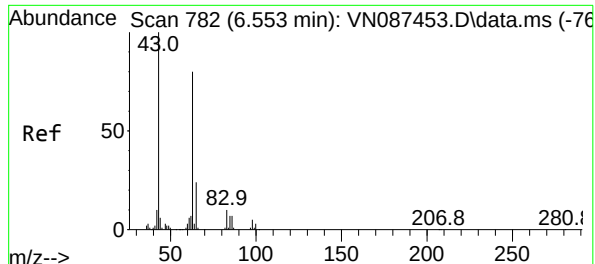
45 100

43 59.5 44.7 67.1

87 26.2 20.2 30.2

59 11.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 45.221 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 63 Resp: 453264

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

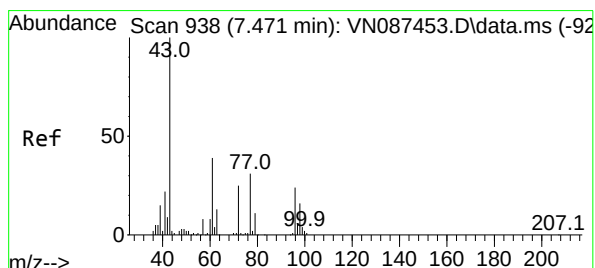
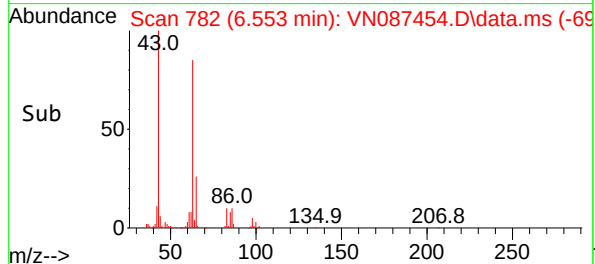
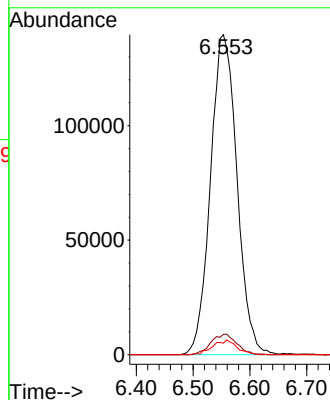
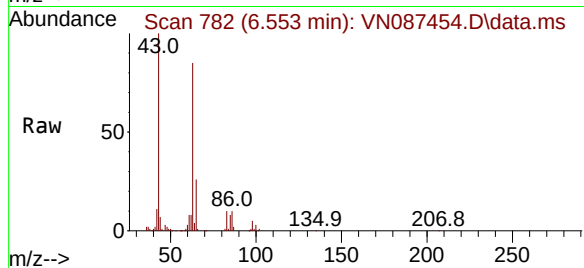
100 3.6 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 44.697 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

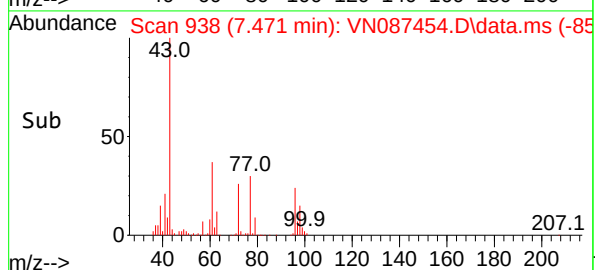
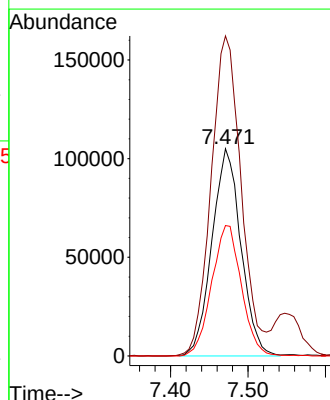
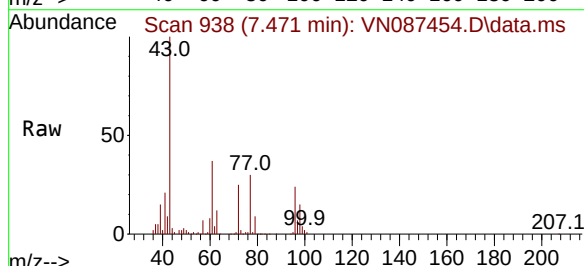
Tgt Ion: 96 Resp: 273116

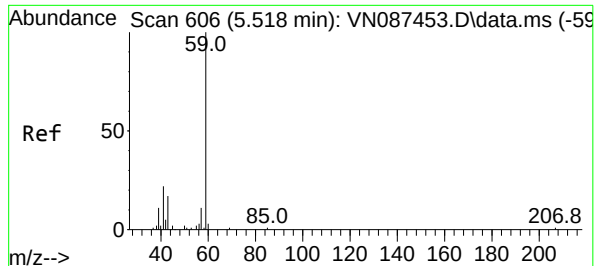
Ion Ratio Lower Upper

96 100

61 160.2 126.6 190.0

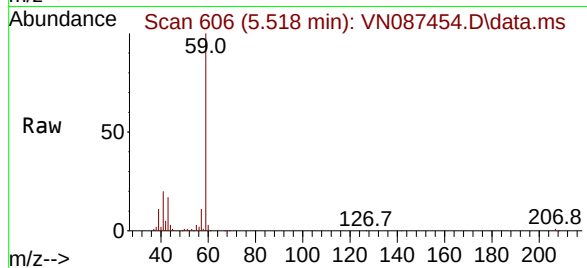
98 64.4 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 226.154 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

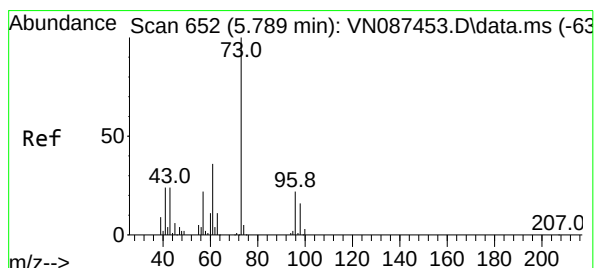
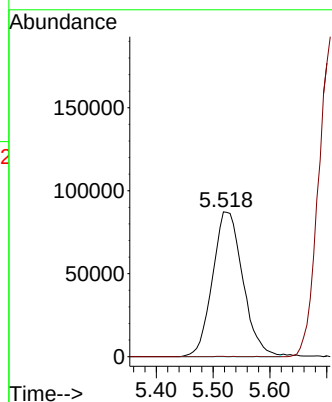
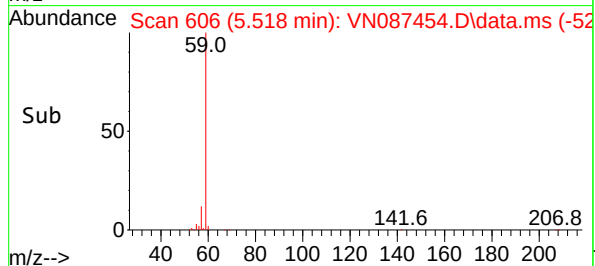
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 59 Resp: 32338  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0

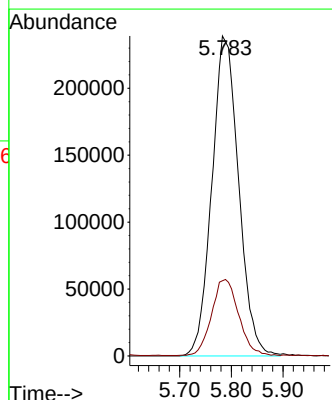
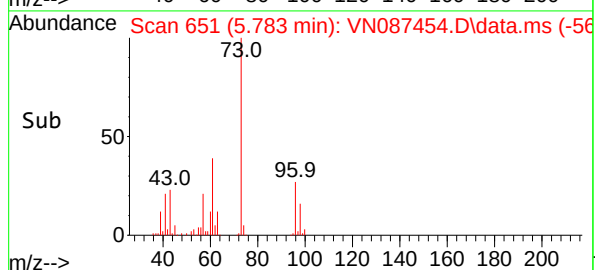
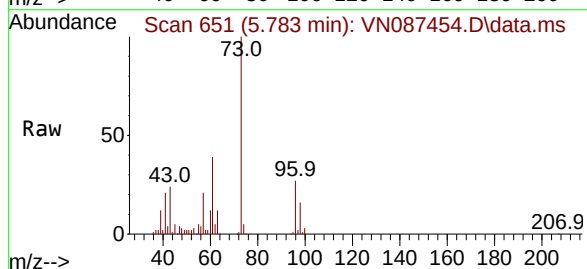
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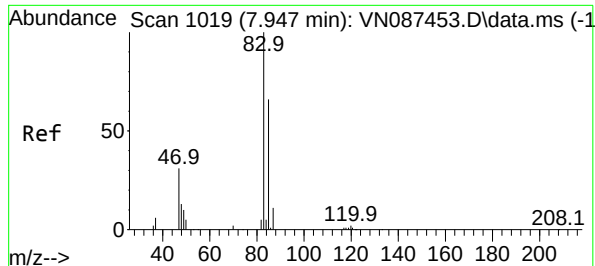
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#24  
Methyl tert-Butyl Ether  
Concen: 45.179 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 73 Resp: 859723  
Ion Ratio Lower Upper  
73 100  
43 24.2 19.9 29.9





#25

Chloroform

Concen: 45.405 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 475049

Ion Ratio Lower Upper

83 100

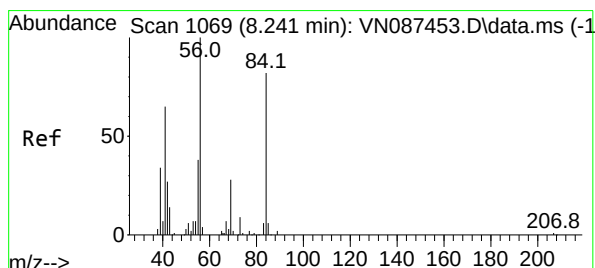
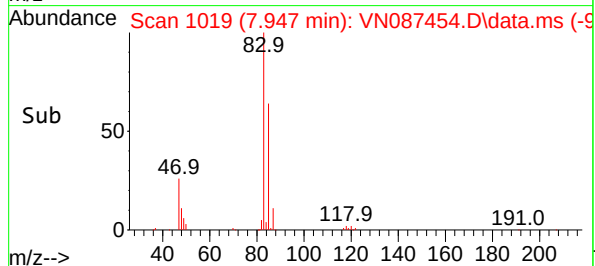
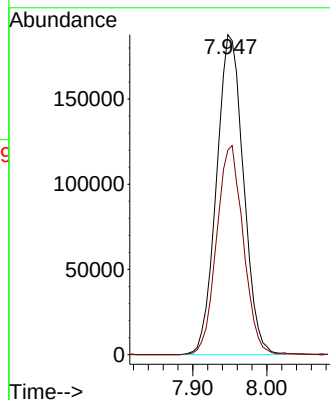
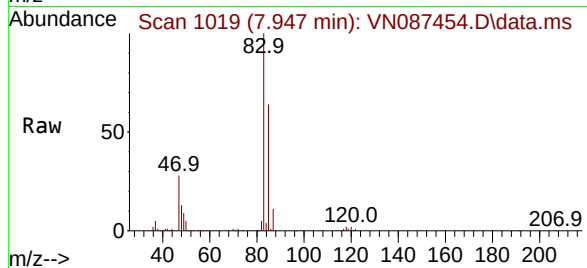
85 64.0 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 45.006 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

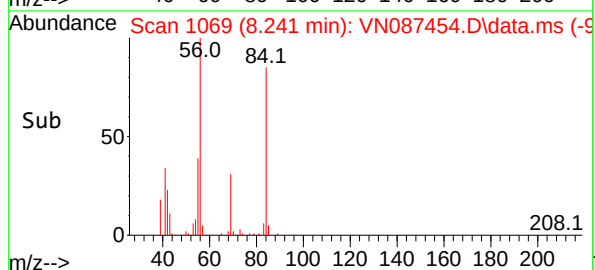
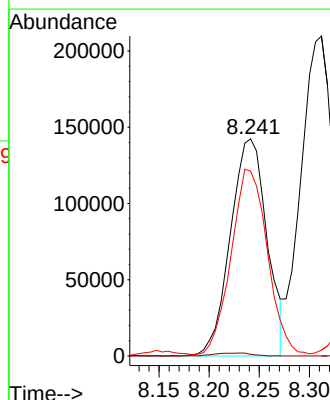
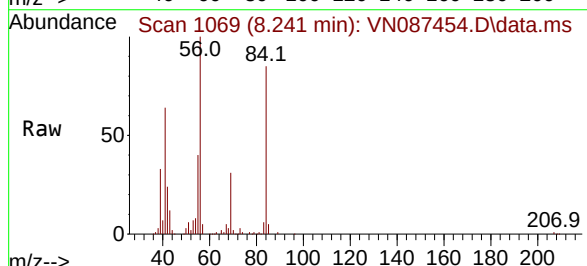
Tgt Ion: 56 Resp: 361178

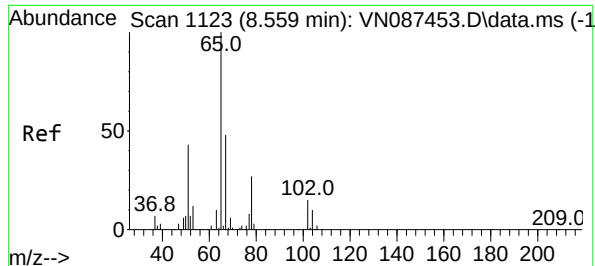
Ion Ratio Lower Upper

56 100

89 1.3 2.3 3.5#

84 86.2 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.095 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 65 Resp: 211654

Ion Ratio Lower Upper

65 100

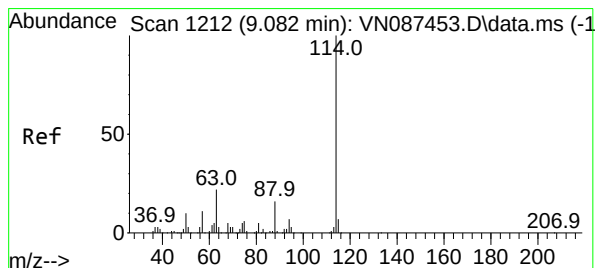
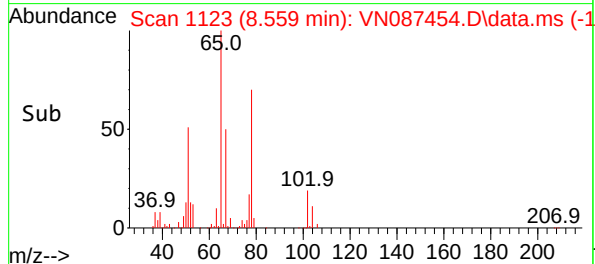
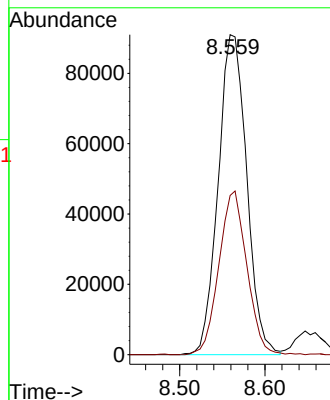
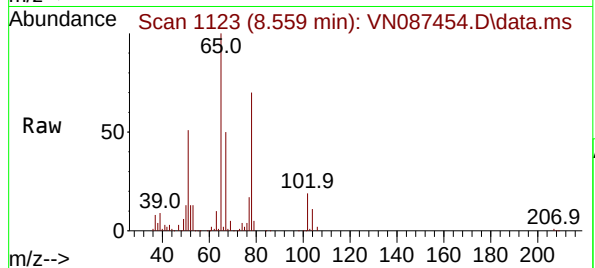
67 50.0 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

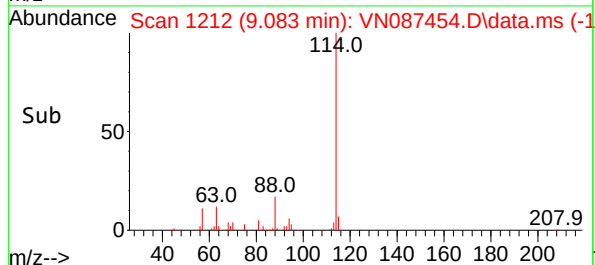
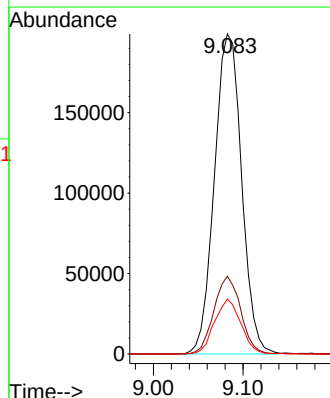
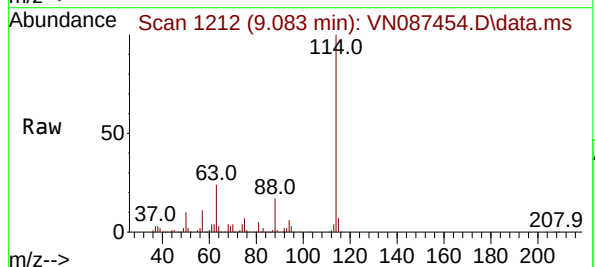
Tgt Ion:114 Resp: 418905

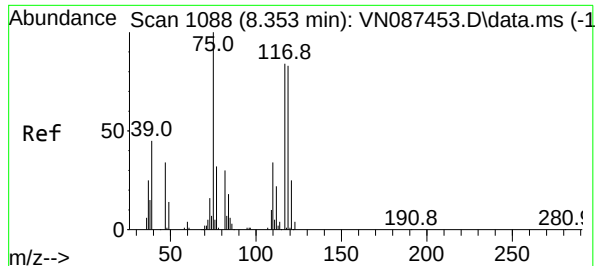
Ion Ratio Lower Upper

114 100

63 23.9 18.9 28.3

88 16.6 13.1 19.7





#29

1,1-Dichloropropene

Concen: 45.472 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 310679

Ion Ratio Lower Upper

75 100

110 31.5 0.0 65.8

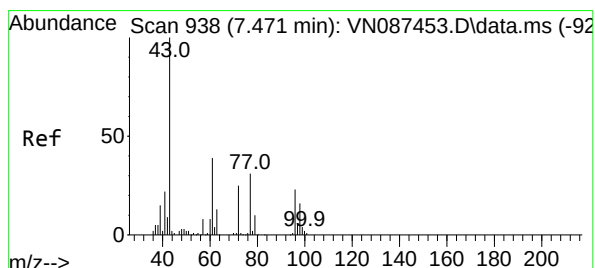
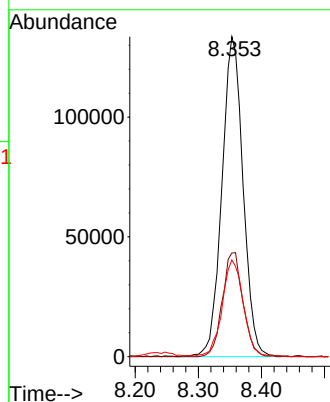
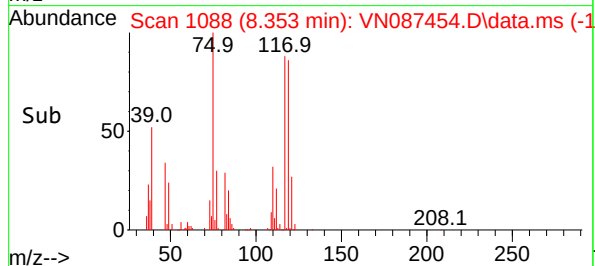
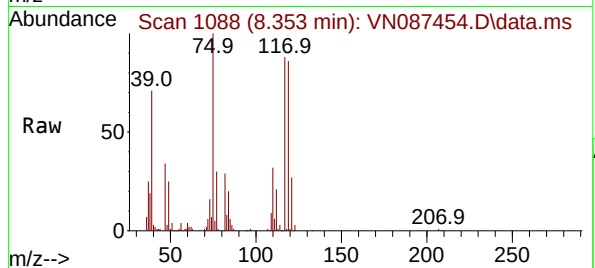
77 30.3 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 231.454 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

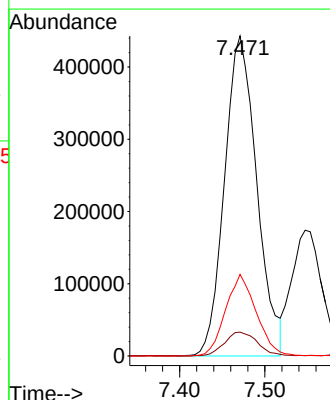
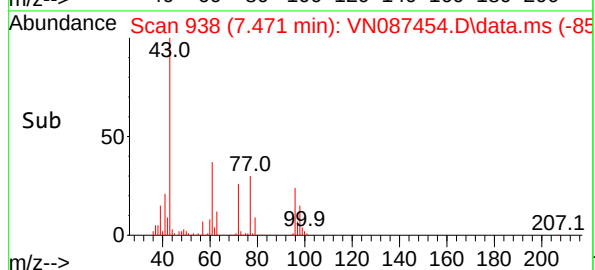
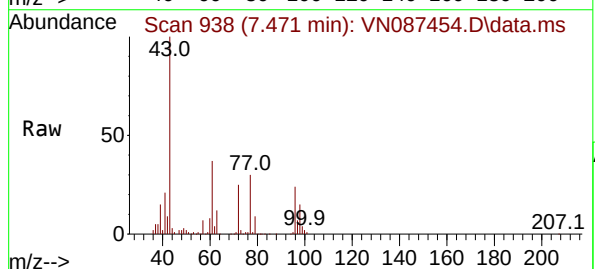
Tgt Ion: 43 Resp: 1165660

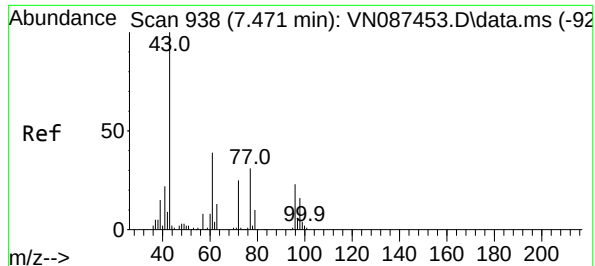
Ion Ratio Lower Upper

43 100

57 7.8 6.6 9.8

72 24.2 19.7 29.5





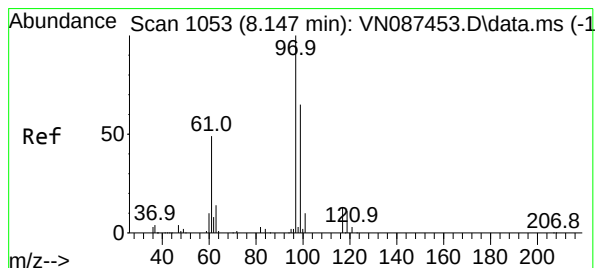
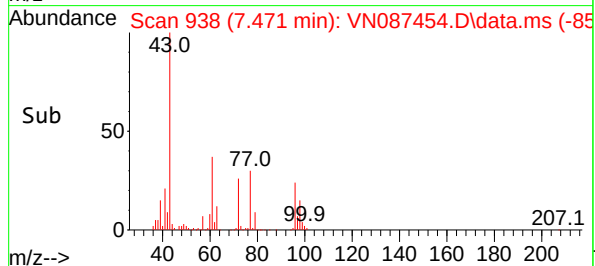
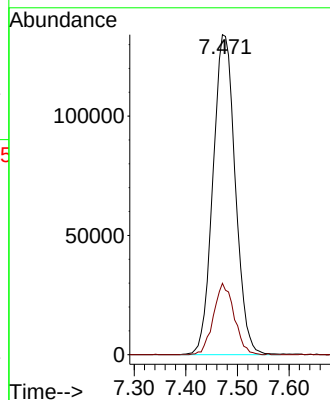
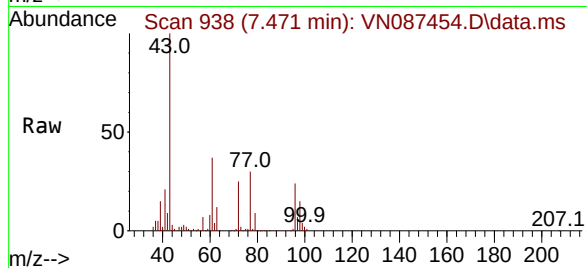
#31  
2,2-Dichloropropane  
Concen: 45.671 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

Tgt Ion: 77 Resp: 40245  
Ion Ratio Lower Upper  
77 100  
97 20.7 16.7 25.1

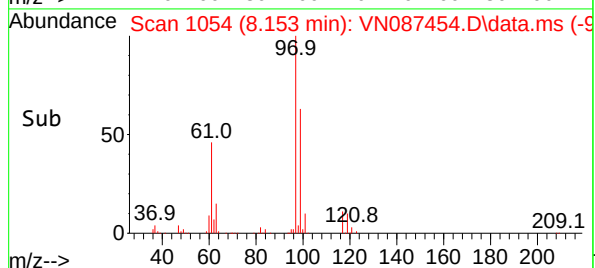
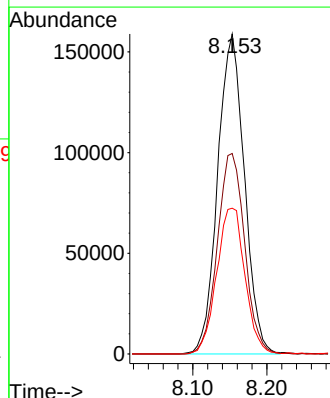
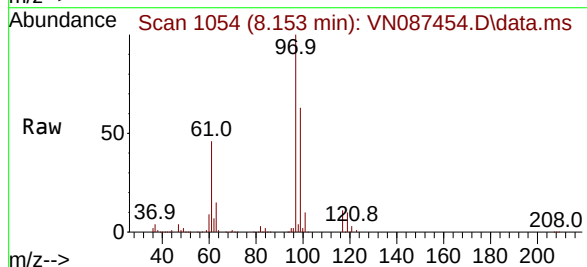
Manual Integrations  
APPROVED

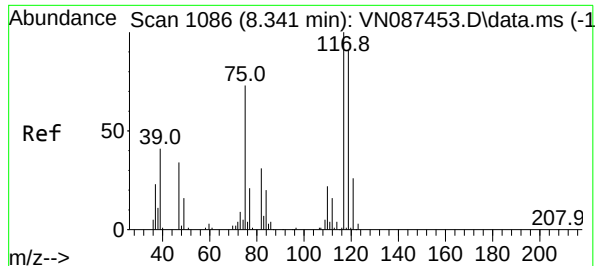
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 45.714 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 97 Resp: 398348  
Ion Ratio Lower Upper  
97 100  
99 63.9 53.0 79.6  
61 48.1 40.6 61.0





#33

Carbon Tetrachloride

Concen: 45.723 ug/l

RT: 8.347 min Scan# 1086

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion:117 Resp: 33099

Ion Ratio Lower Upper

117 100

119 93.8 73.4 110.0

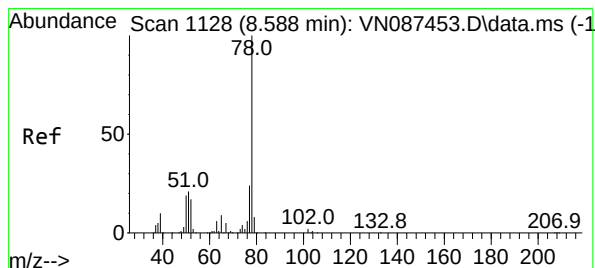
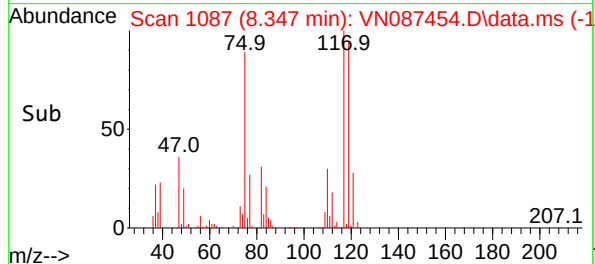
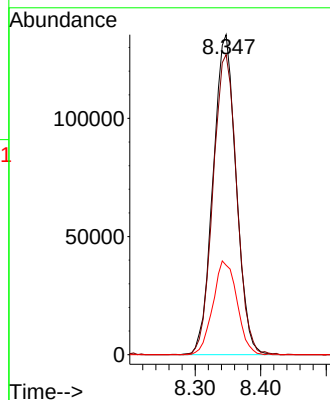
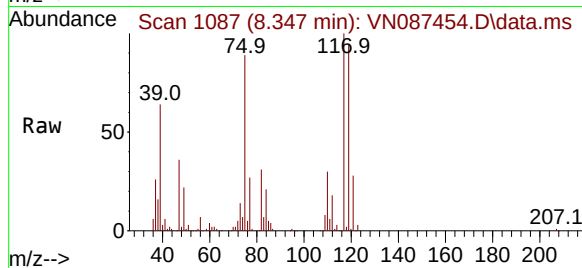
121 27.9 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#34

Benzene

Concen: 45.639 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

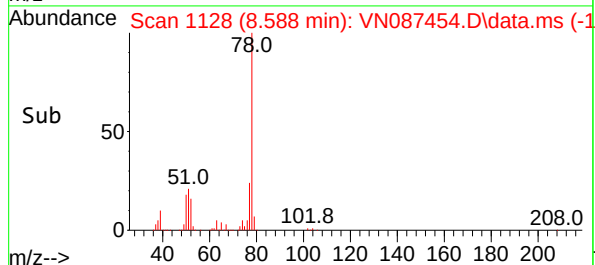
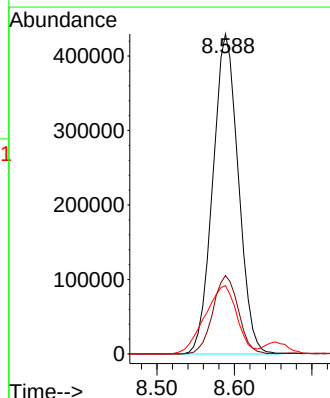
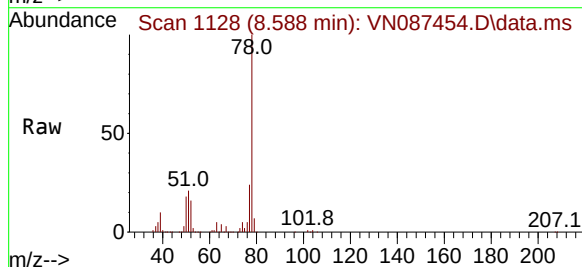
Tgt Ion: 78 Resp: 984335

Ion Ratio Lower Upper

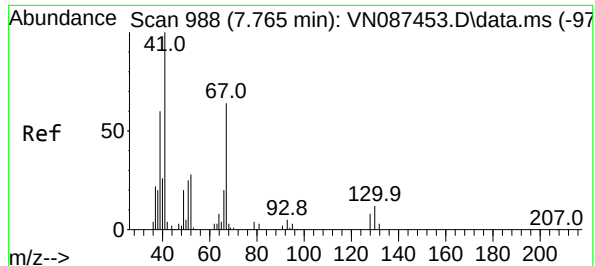
78 100

77 24.5 19.2 28.8

51 20.6 16.9 25.3







#35

Methacrylonitrile

Concen: 47.860 ug/l

RT: 7.765 min Scan# 988

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 260104

Ion Ratio Lower Upper

41 100

39 59.2 30.1 90.5

67 63.4 32.0 96.2

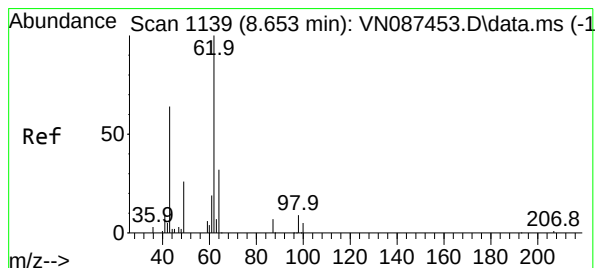
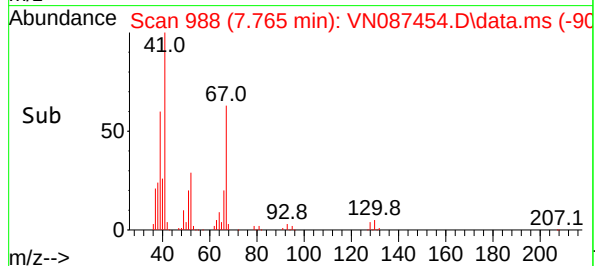
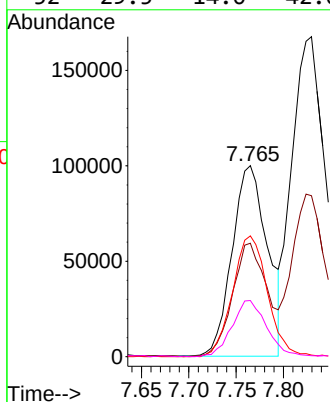
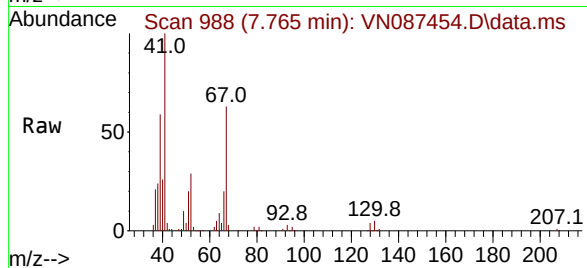
52 29.5 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 45.169 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087454.D

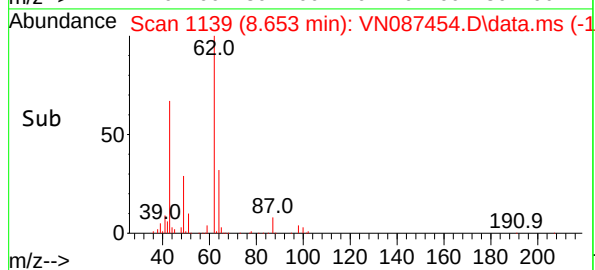
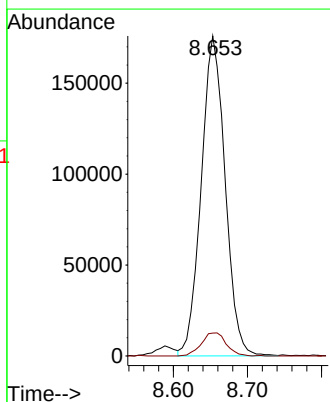
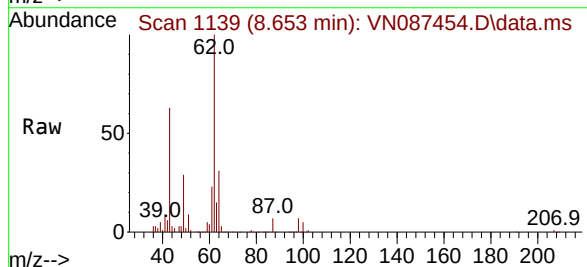
Acq: 05 Aug 2025 14:19

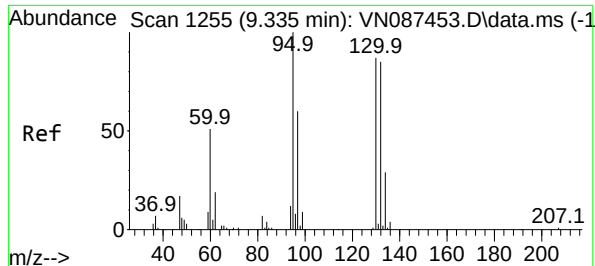
Tgt Ion: 62 Resp: 393795

Ion Ratio Lower Upper

62 100

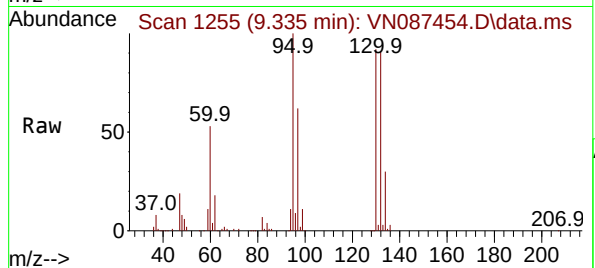
98 7.5 6.6 9.8





#37  
Trichloroethene  
Concen: 45.693 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

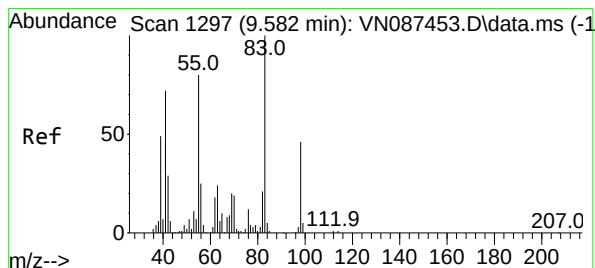
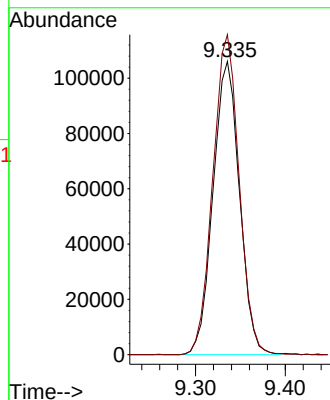
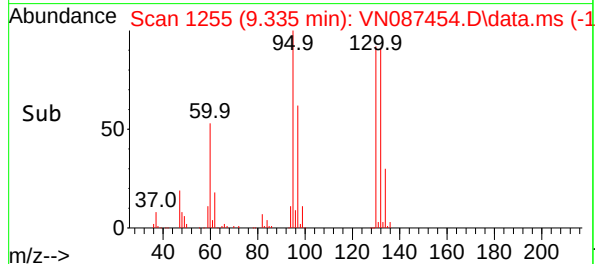
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion:130 Resp: 217082  
Ion Ratio Lower Upper  
130 100  
95 109.1 91.4 137.2

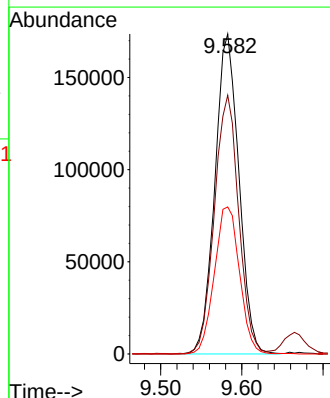
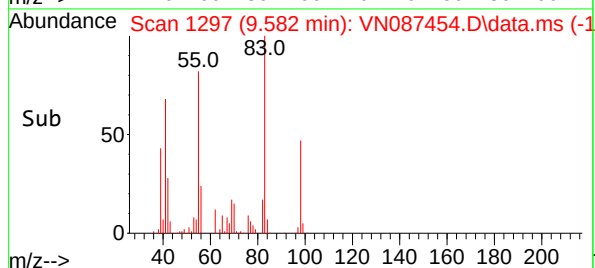
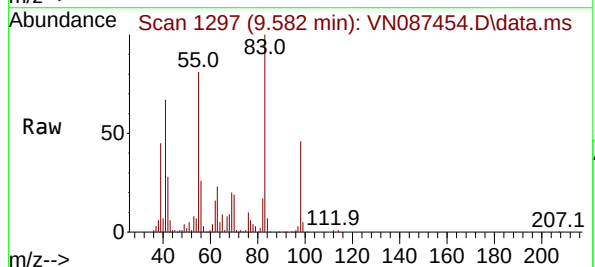
Manual Integrations  
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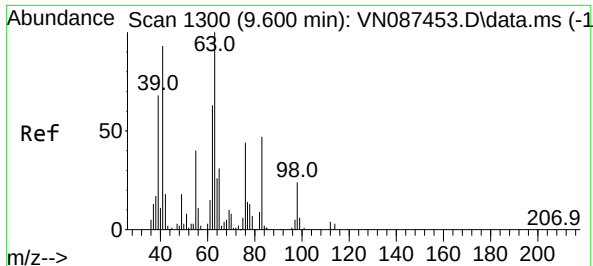
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#38  
Methylcyclohexane  
Concen: 45.072 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 83 Resp: 357253  
Ion Ratio Lower Upper  
83 100  
55 81.7 41.2 123.6  
98 48.1 23.3 69.9





#39

1,2-Dichloropropane

Concen: 45.142 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 24962

Ion Ratio Lower Upper

63 100

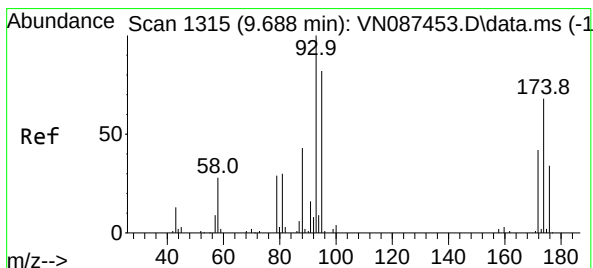
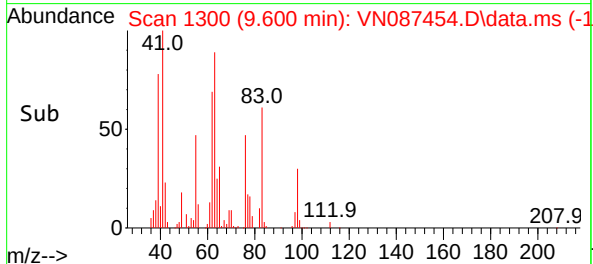
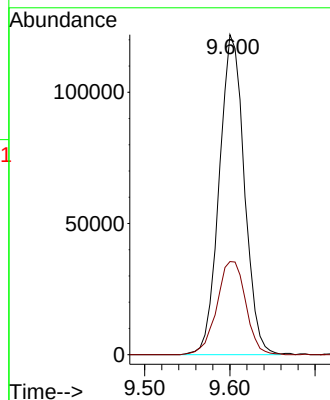
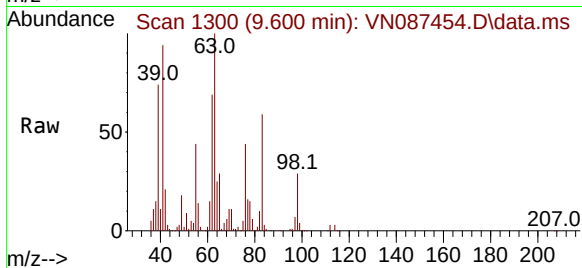
65 29.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 45.278 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

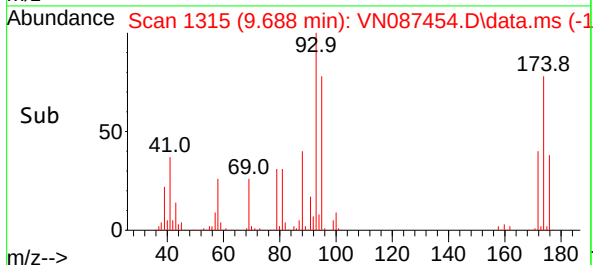
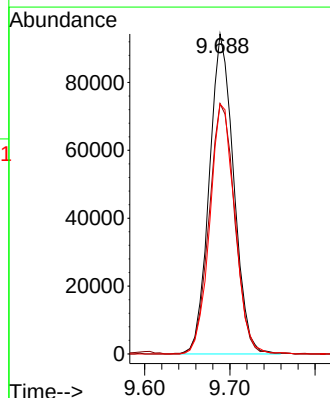
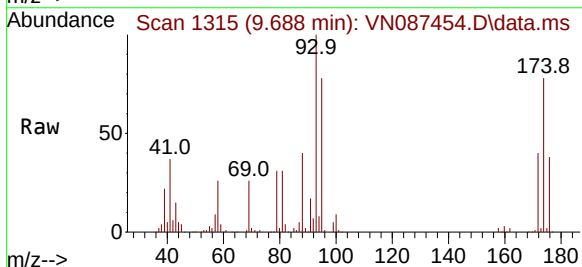
Tgt Ion: 93 Resp: 187857

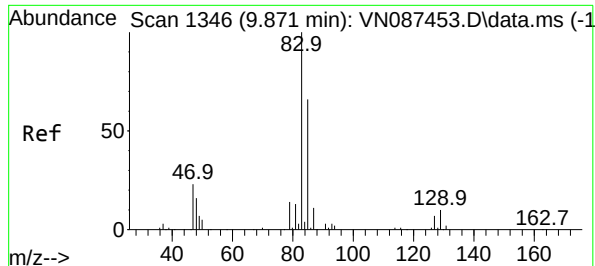
Ion Ratio Lower Upper

93 100

95 82.1 0.0 161.6

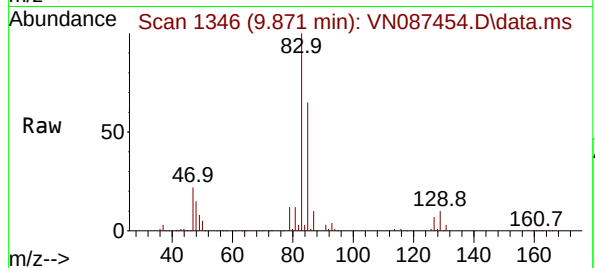
174 79.8 0.0 151.4





#41  
Bromodichloromethane  
Concen: 45.463 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

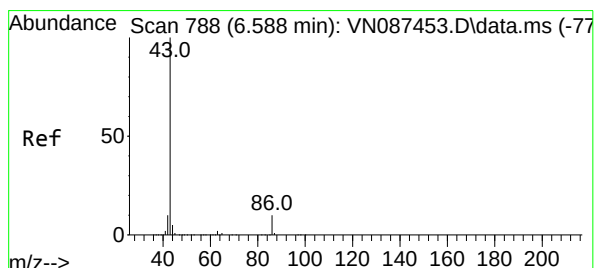
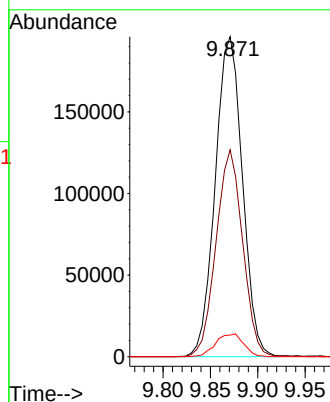
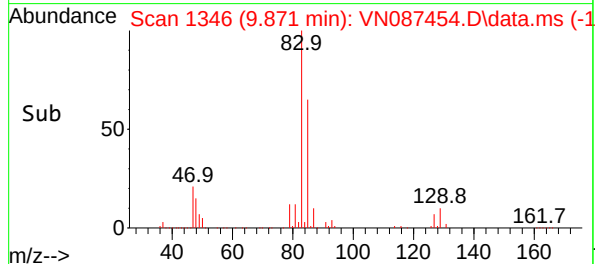
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 83 Resp: 39195  
Ion Ratio Lower Upper  
83 100  
85 64.6 52.9 79.3  
127 6.8 5.8 8.6

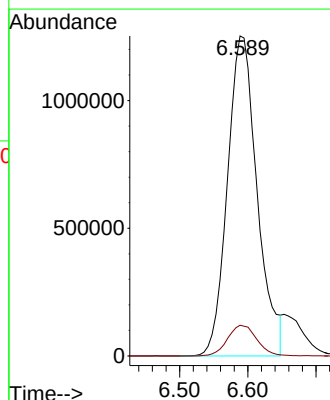
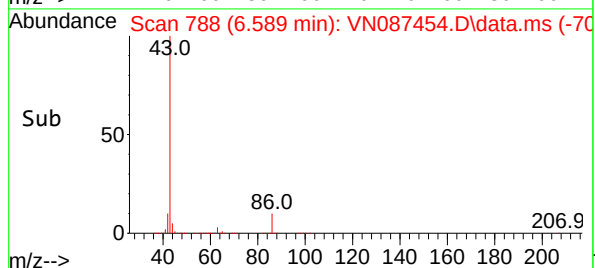
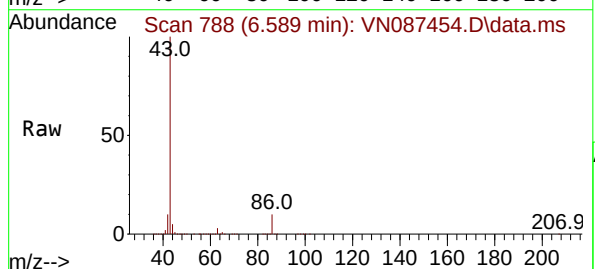
Manual Integrations  
APPROVED

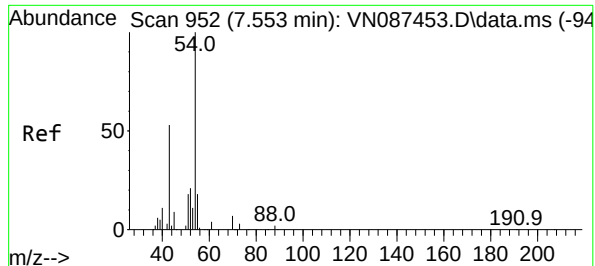
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 228.920 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 3796699  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 45.558 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 43675

Ion Ratio Lower Upper

43 100

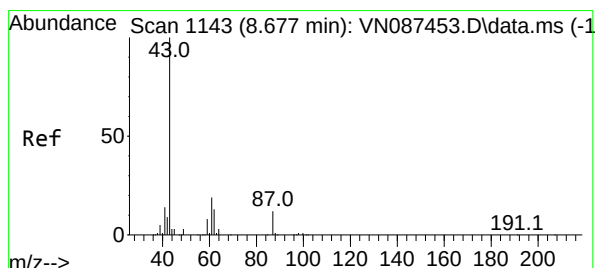
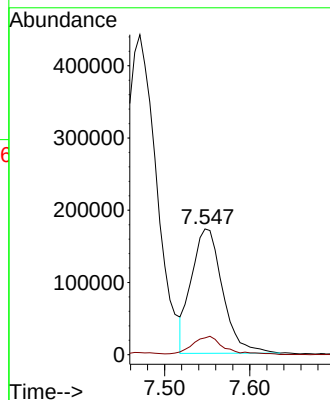
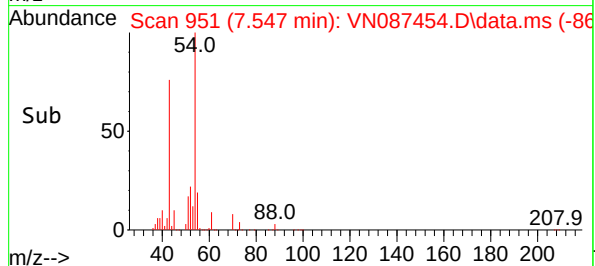
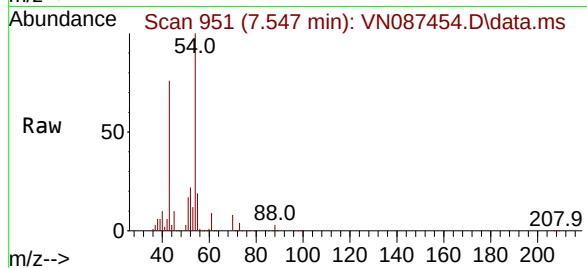
45 12.4 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 45.813 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087454.D

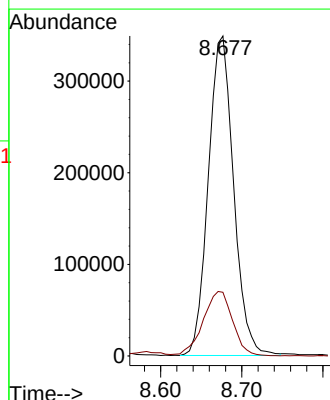
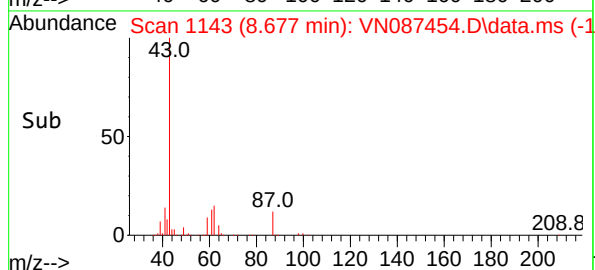
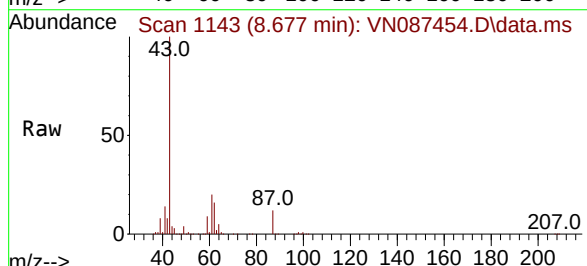
Acq: 05 Aug 2025 14:19

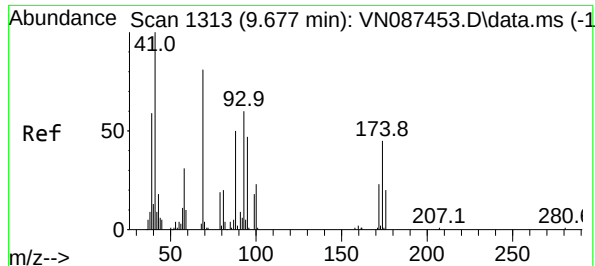
Tgt Ion: 43 Resp: 755567

Ion Ratio Lower Upper

43 100

61 23.6 18.6 28.0





#45

1,4-Dioxane

Concen: 932.433 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 88 Resp: 98035

Ion Ratio Lower Upper

88 100

43 31.4 24.1 36.1

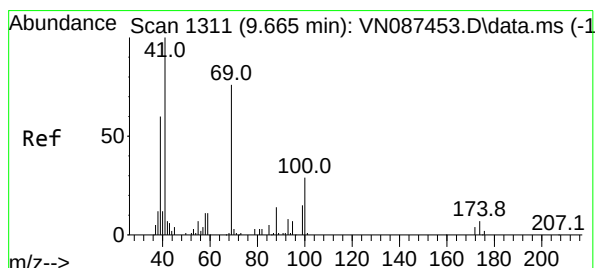
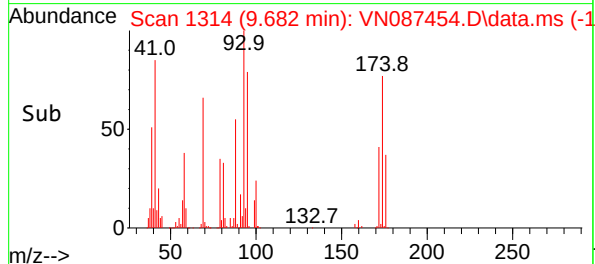
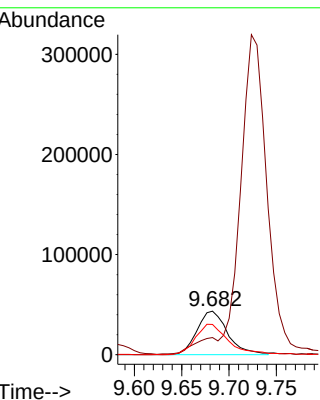
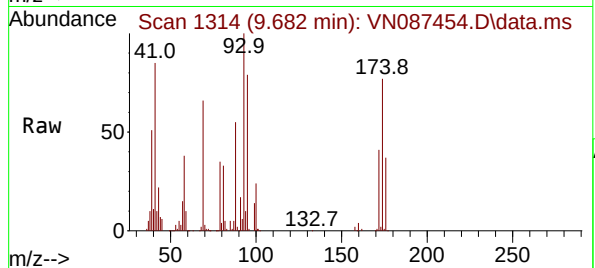
58 74.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 45.128 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

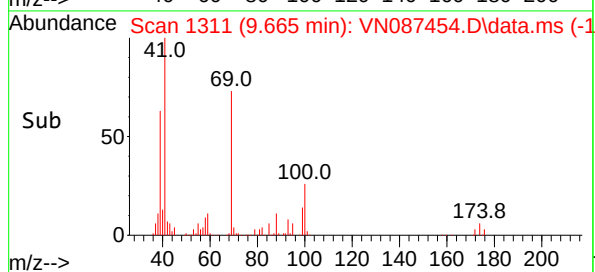
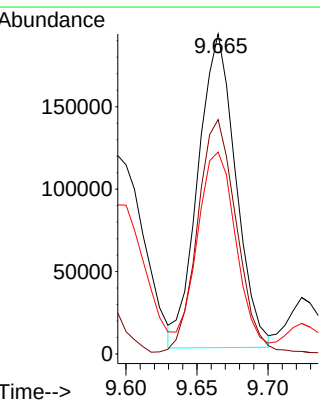
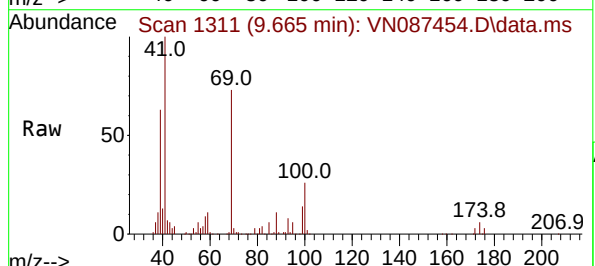
Tgt Ion: 41 Resp: 351323

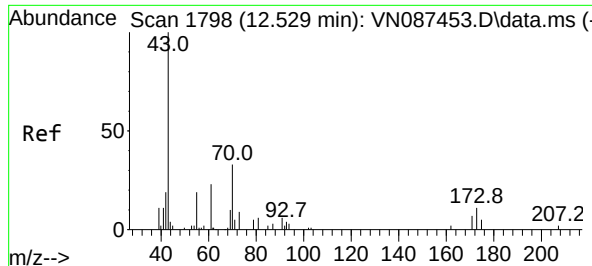
Ion Ratio Lower Upper

41 100

69 76.2 37.1 111.5

39 63.3 30.7 92.1





#47

n-amy1 Acetate

Concen: 48.133 ug/l m

RT: 12.494 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 39915

Ion Ratio Lower Upper

43 100

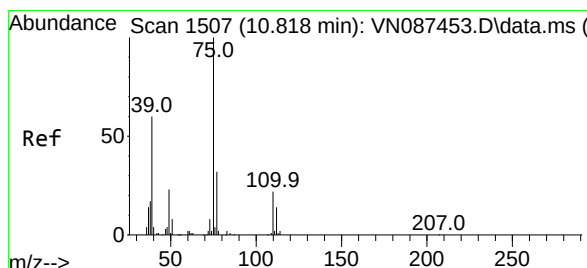
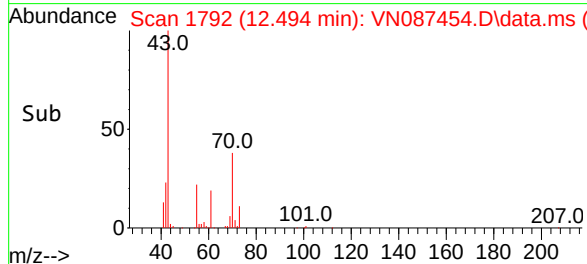
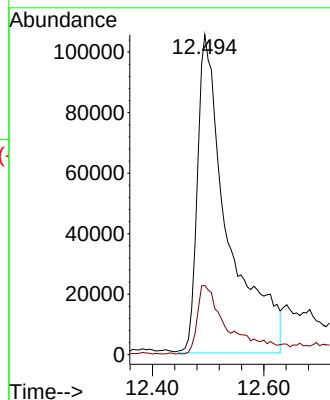
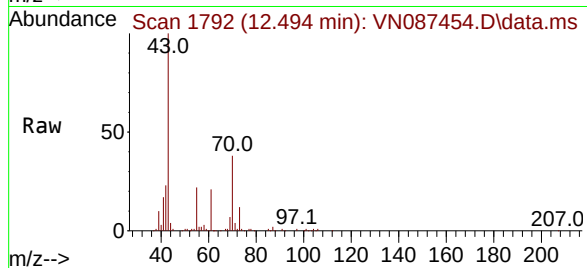
55 0.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 46.014 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087454.D

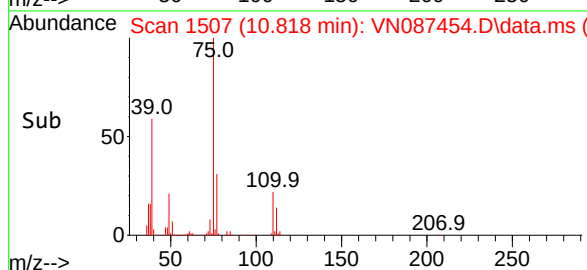
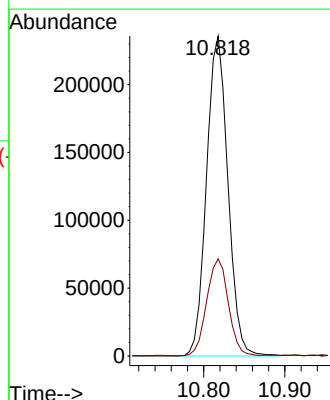
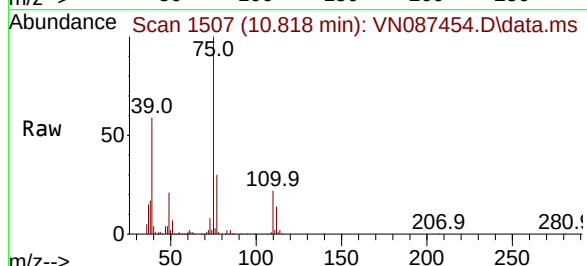
Acq: 05 Aug 2025 14:19

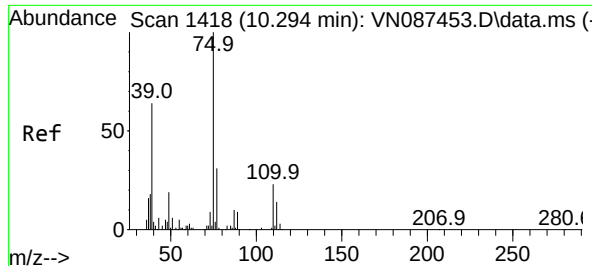
Tgt Ion: 75 Resp: 431587

Ion Ratio Lower Upper

75 100

77 30.3 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 46.521 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 43912

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

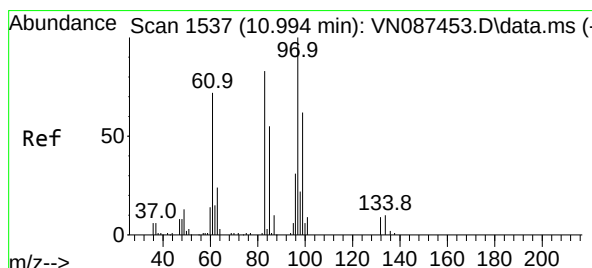
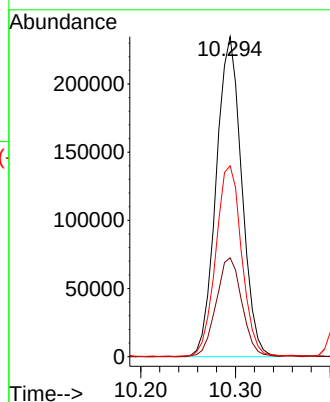
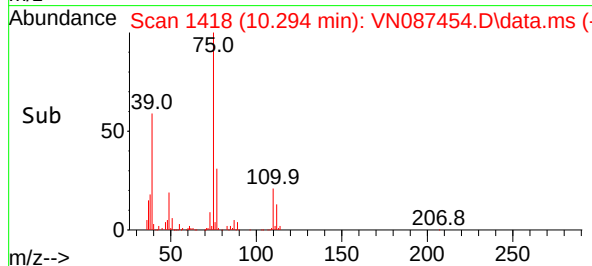
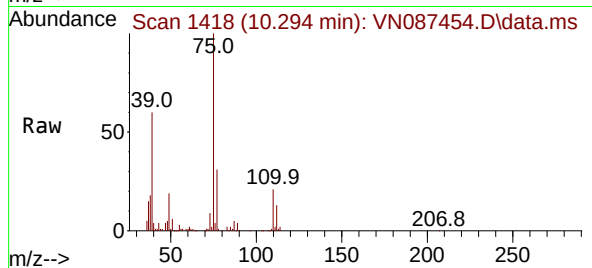
39 59.4 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 45.786 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion: 97 Resp: 240010

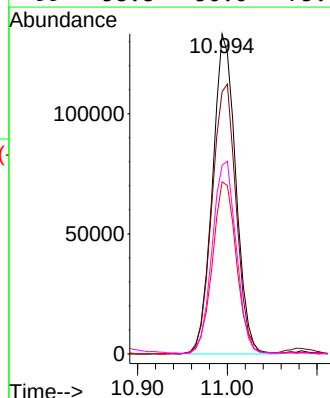
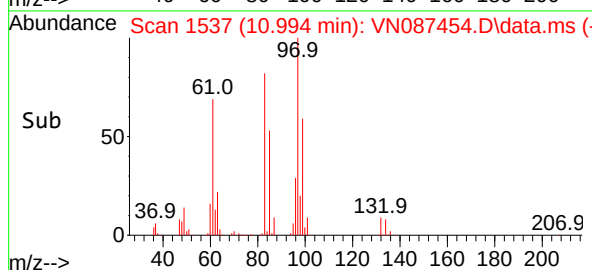
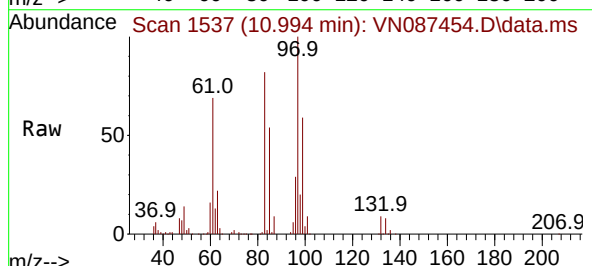
Ion Ratio Lower Upper

97 100

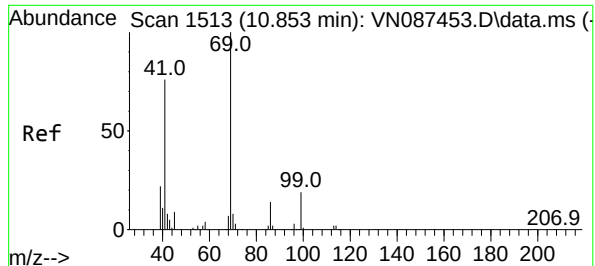
83 82.0 66.2 99.2

85 53.7 43.9 65.9

99 58.8 50.0 75.0

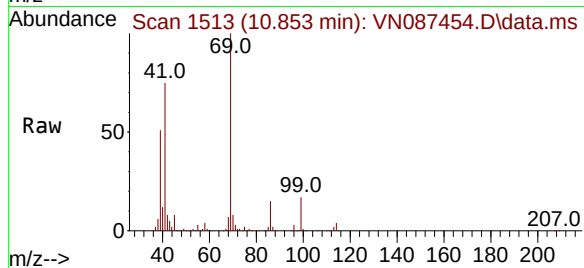






#51  
Ethyl methacrylate  
Concen: 47.164 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

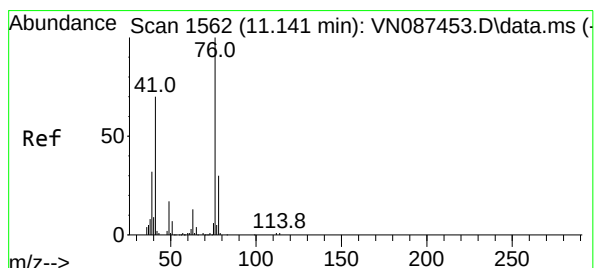
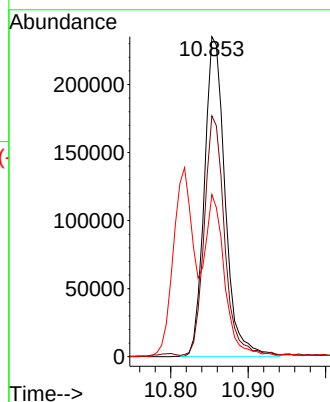
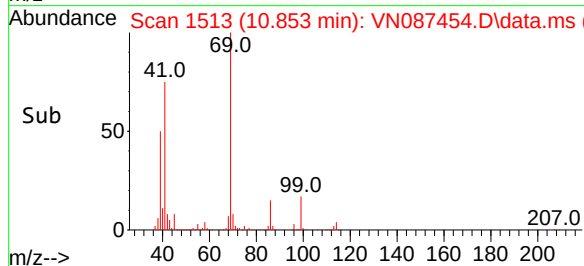
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 69 Resp: 435415  
Ion Ratio Lower Upper  
69 100  
41 74.9 38.0 114.1  
39 50.1 23.2 69.5

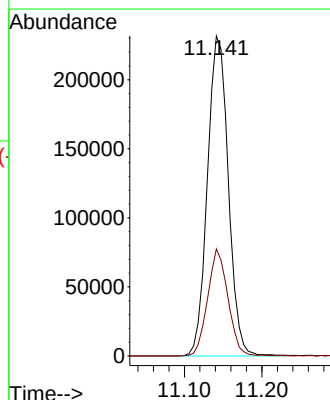
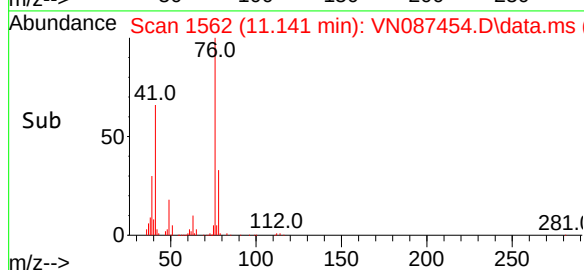
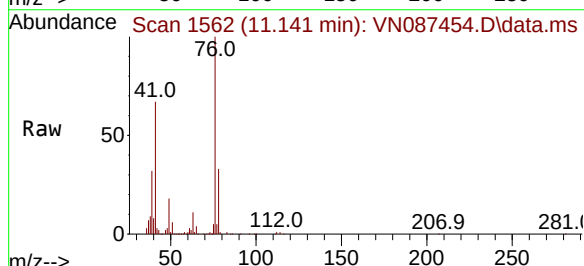
Manual Integrations  
APPROVED

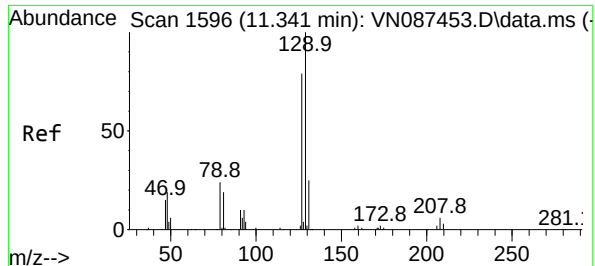
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#52  
1,3-Dichloropropane  
Concen: 45.941 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

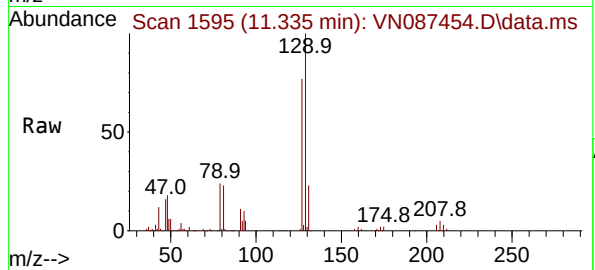
Tgt Ion: 76 Resp: 433869  
Ion Ratio Lower Upper  
76 100  
78 32.3 0.0 63.0





#53  
Dibromochloromethane  
Concen: 46.341 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

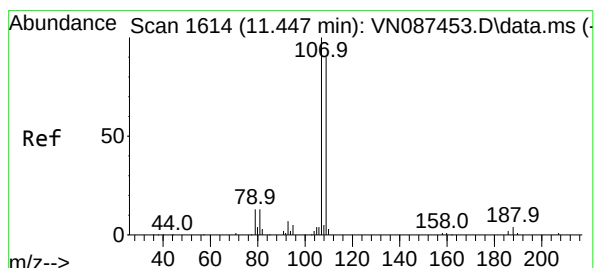
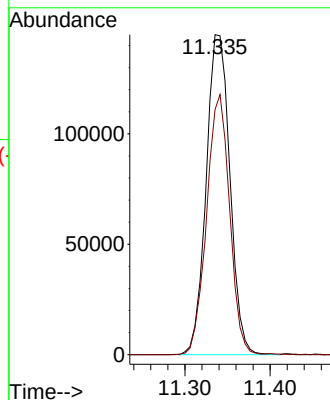
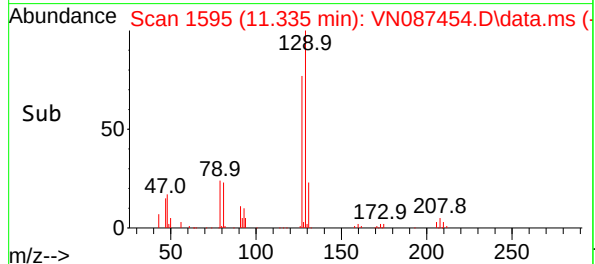
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



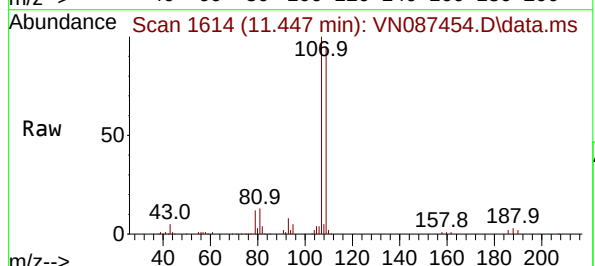
Tgt Ion:129 Resp: 280542  
Ion Ratio Lower Upper  
129 100  
127 78.5 39.1 117.3

Manual Integrations  
APPROVED

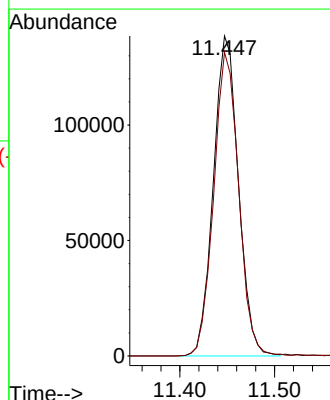
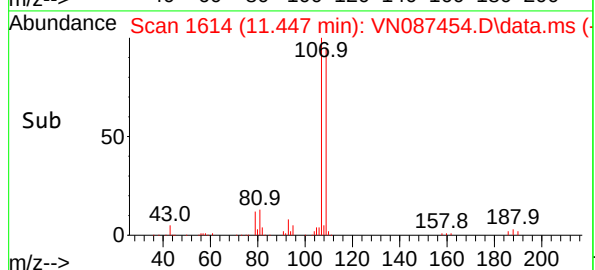
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

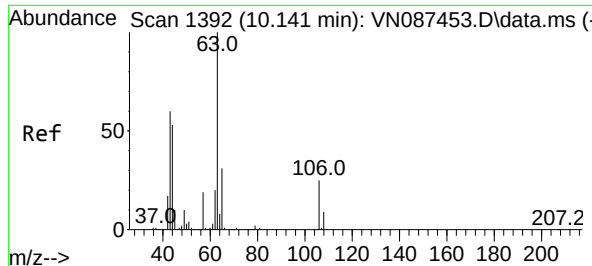


#54  
1,2-Dibromoethane  
Concen: 45.688 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19



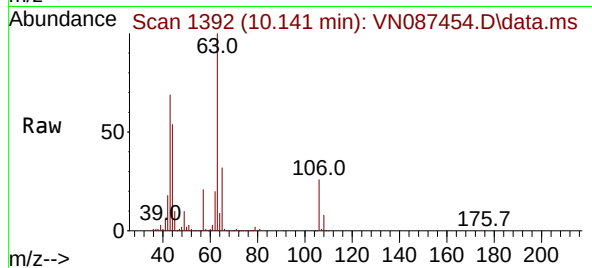
Tgt Ion:107 Resp: 254243  
Ion Ratio Lower Upper  
107 100  
109 94.8 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 230.244 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

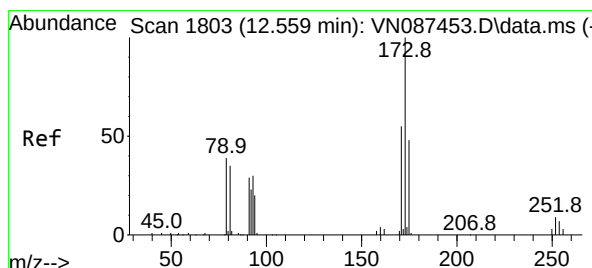
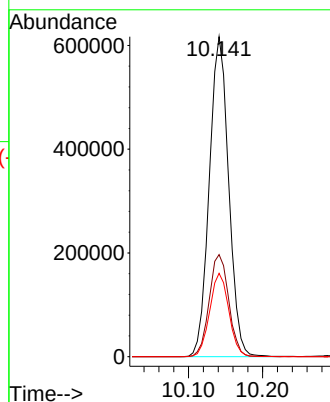
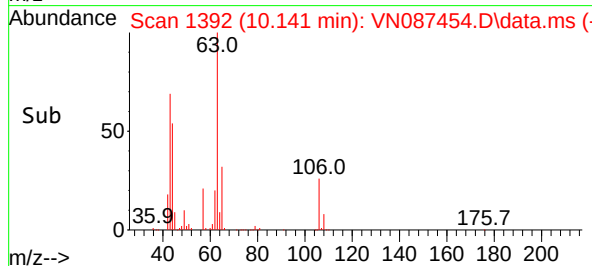
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 63 Resp: 111899  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 25.7 20.7 31.1

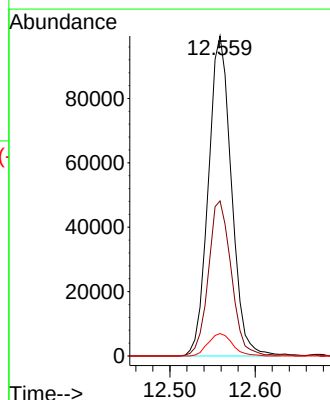
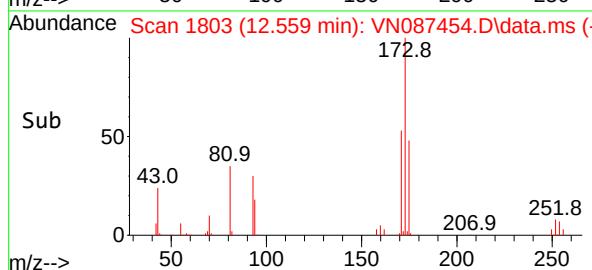
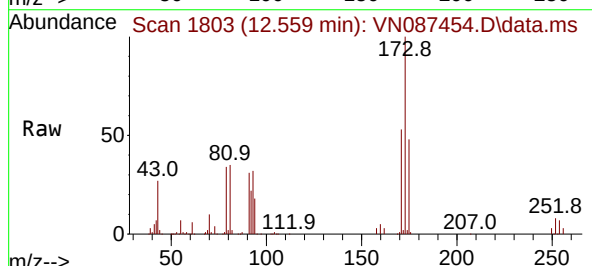
Manual Integrations  
APPROVED

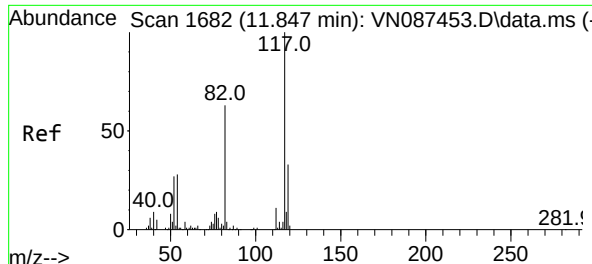
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#56  
Bromoform  
Concen: 46.656 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

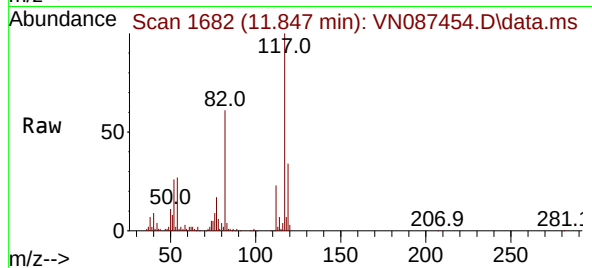
Tgt Ion:173 Resp: 186820  
Ion Ratio Lower Upper  
173 100  
175 48.1 38.8 58.2  
254 7.4 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

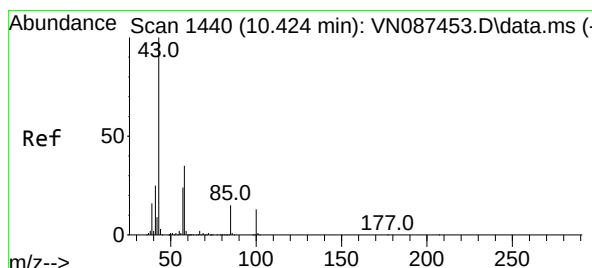
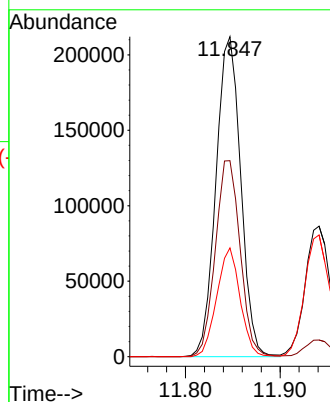
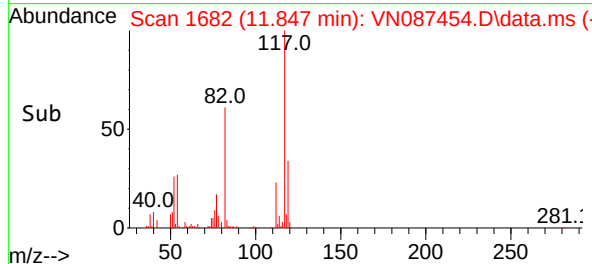
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 117 Resp: 38565  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.2 73.8  
119 32.2 25.7 38.5

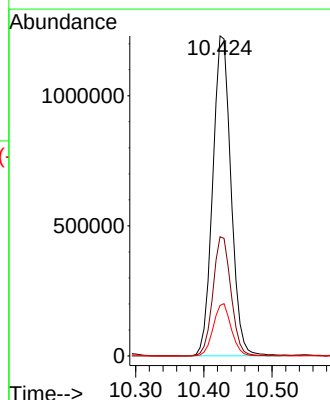
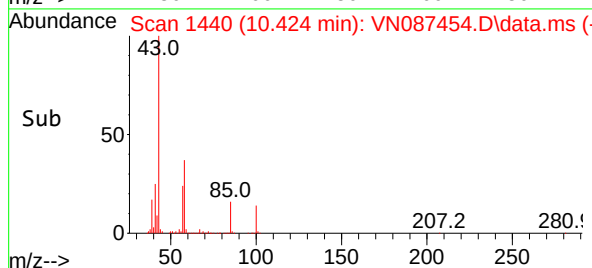
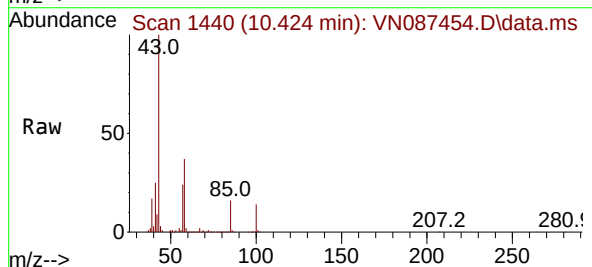
Manual Integrations  
APPROVED

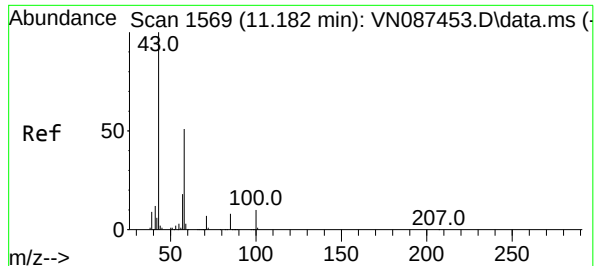
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 230.864 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

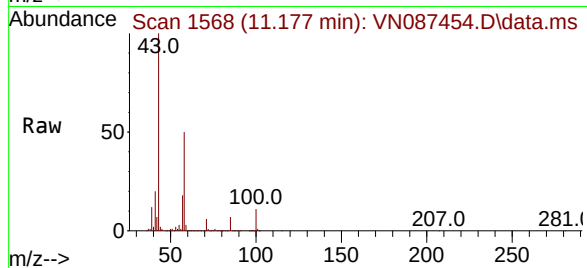
Tgt Ion: 43 Resp: 2290380  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.0 43.6  
85 16.1 12.7 19.1





#59  
2-Hexanone  
Concen: 240.439 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

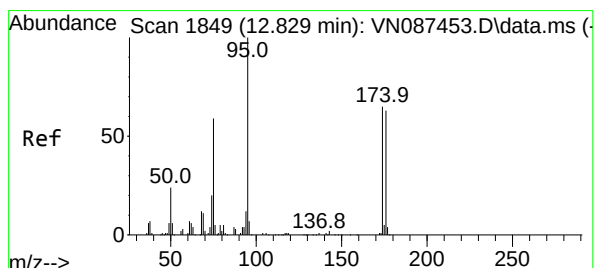
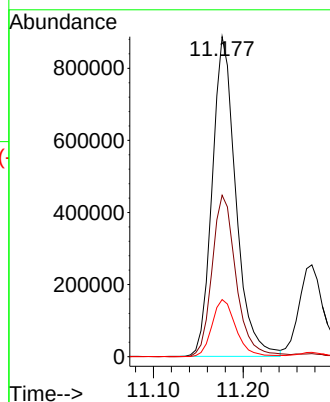
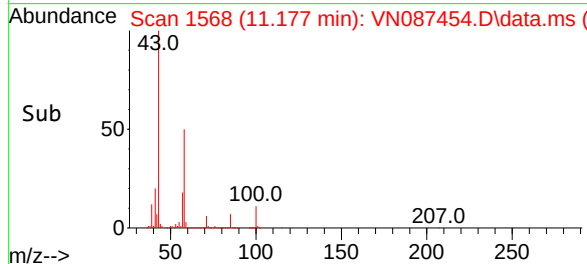
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 43 Resp: 162074  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.1 14.6 21.8

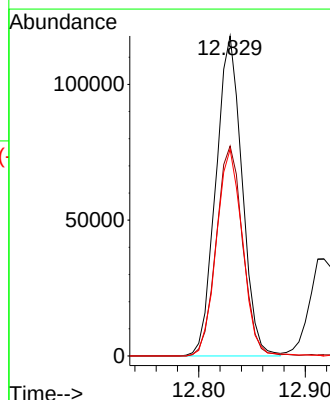
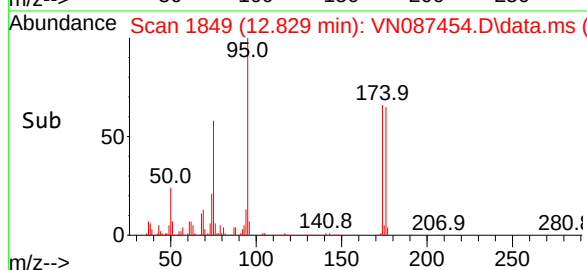
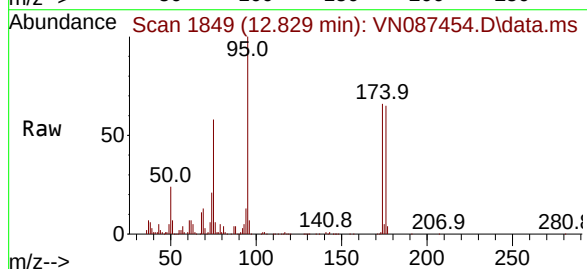
Manual Integrations  
APPROVED

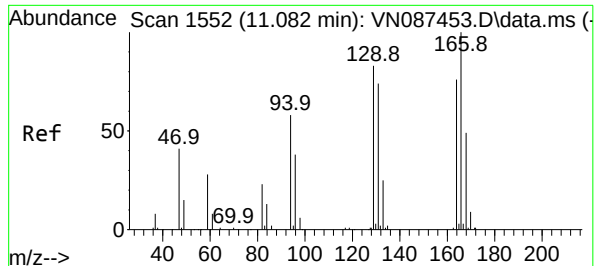
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#60  
4-Bromofluorobenzene  
Concen: 30.325 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

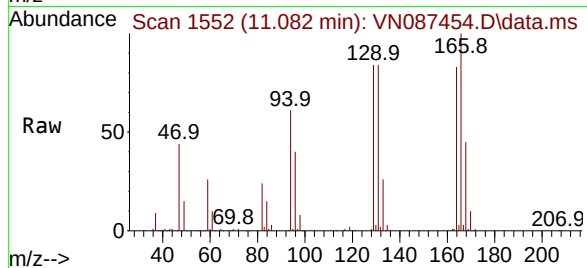
Tgt Ion: 95 Resp: 201264  
Ion Ratio Lower Upper  
95 100  
174 66.0 52.3 78.5  
176 64.6 49.8 74.8





#61  
Tetrachloroethene  
Concen: 46.177 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

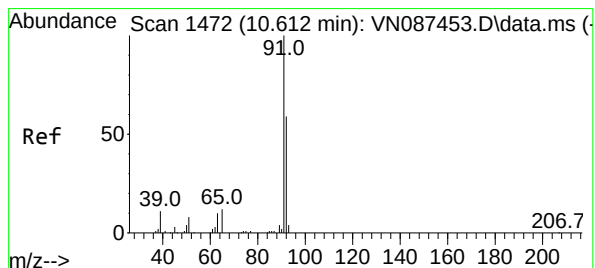
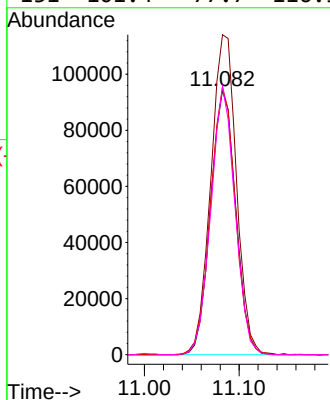
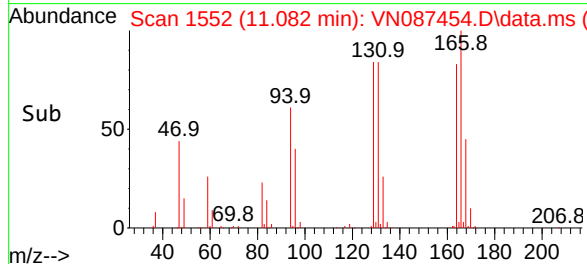
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



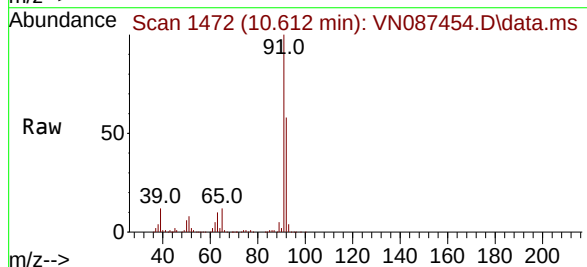
Tgt Ion:164 Resp: 173500  
Ion Ratio Lower Upper  
164 100  
166 121.2 105.4 158.0  
129 101.5 87.7 131.5  
131 101.4 77.7 116.5

Manual Integrations  
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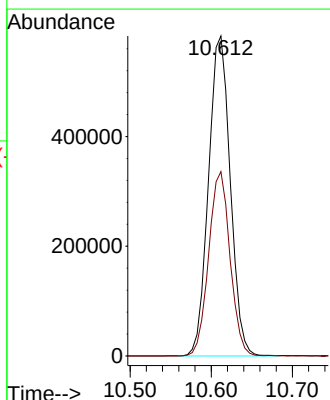
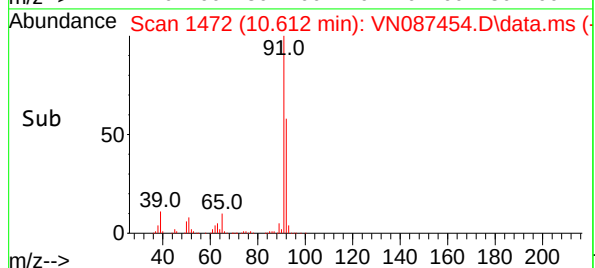
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

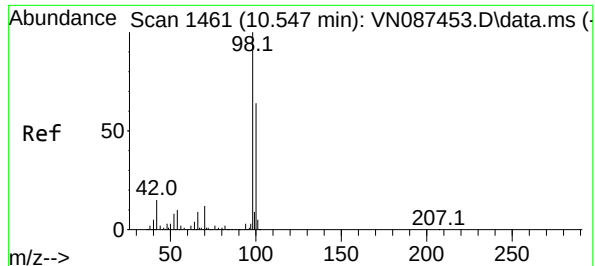


#62  
Toluene  
Concen: 45.620 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19



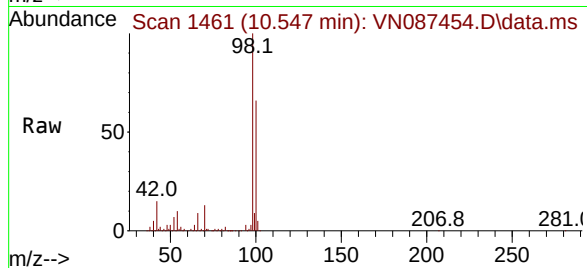
Tgt Ion: 91 Resp: 1085878  
Ion Ratio Lower Upper  
91 100  
92 56.5 45.8 68.6





#63  
Toluene-d8  
Concen: 30.124 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

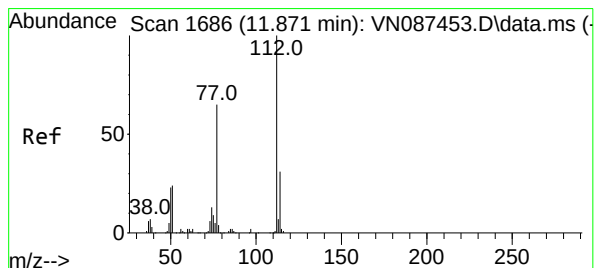
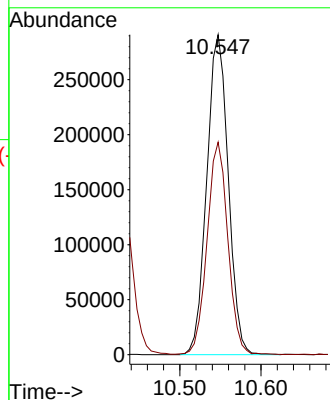
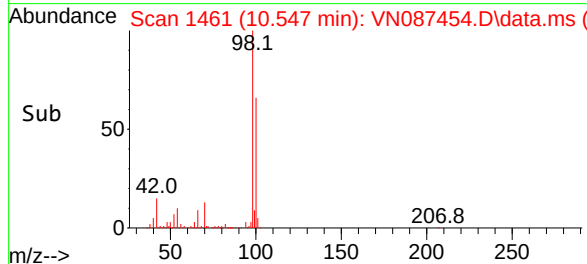
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



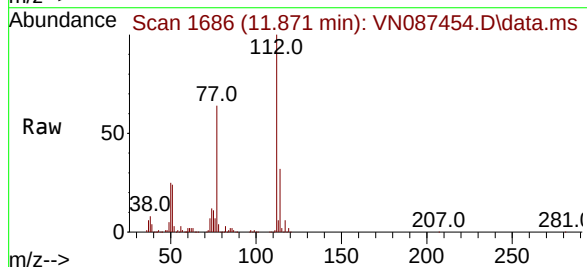
Tgt Ion: 98 Resp: 534559  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.5 75.7

Manual Integrations  
APPROVED

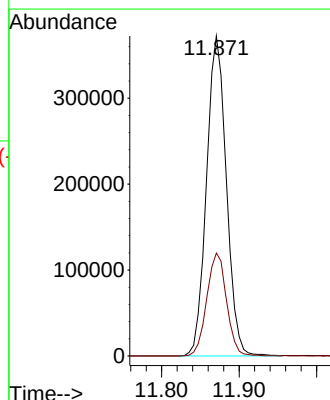
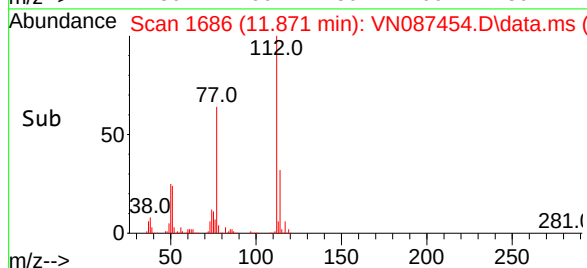
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

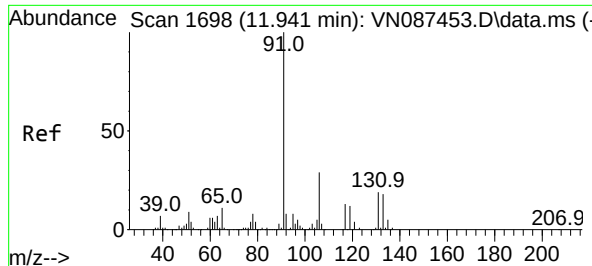


#64  
Chlorobenzene  
Concen: 45.283 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19



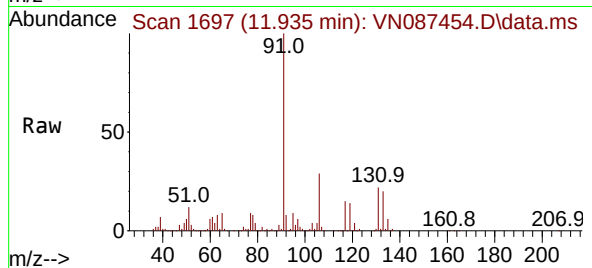
Tgt Ion:112 Resp: 662306  
Ion Ratio Lower Upper  
112 100  
114 32.1 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 45.493 ug/l  
RT: 11.935 min Scan# 1697  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

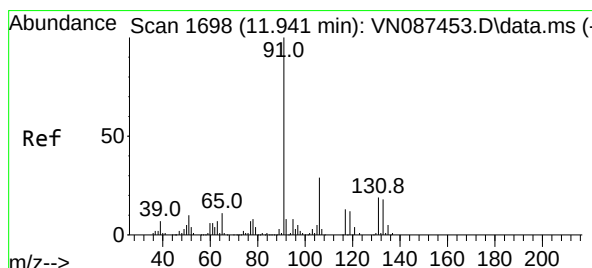
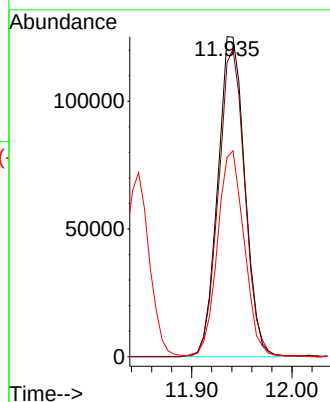
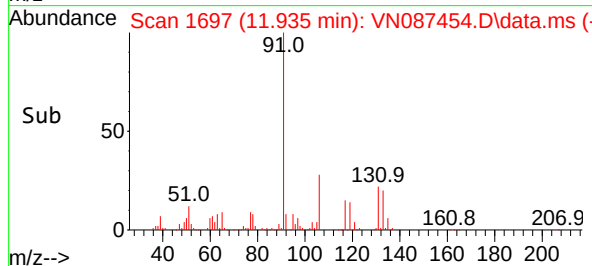
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 131 Resp: 23394  
Ion Ratio Lower Upper  
131 100  
133 94.4 0.0 189.8  
119 63.8 0.0 133.2

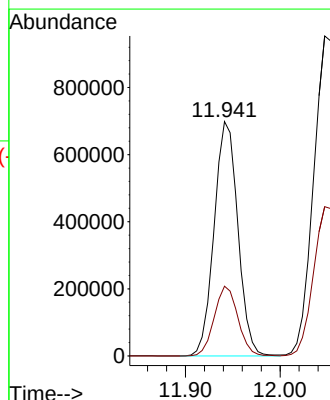
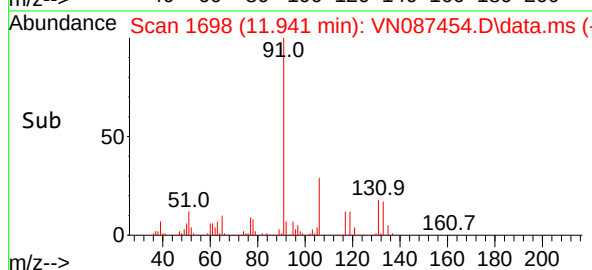
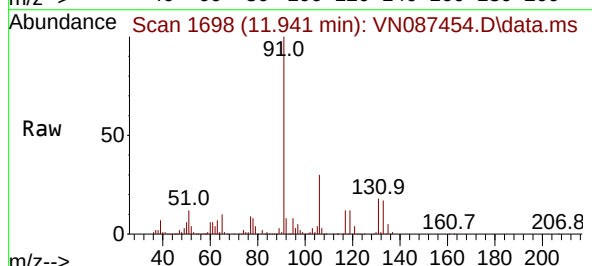
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

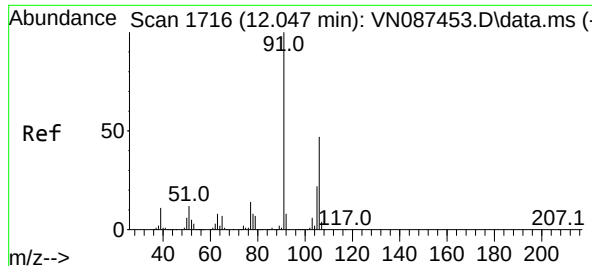


#66  
Ethyl Benzene  
Concen: 45.832 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 1215937  
Ion Ratio Lower Upper  
91 100  
106 29.8 22.9 34.3







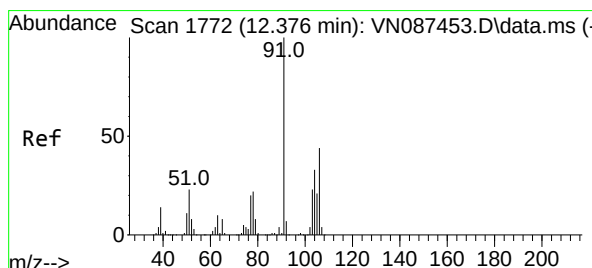
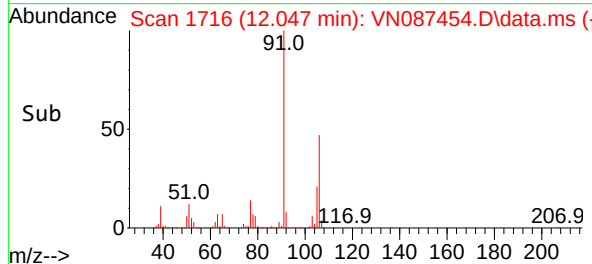
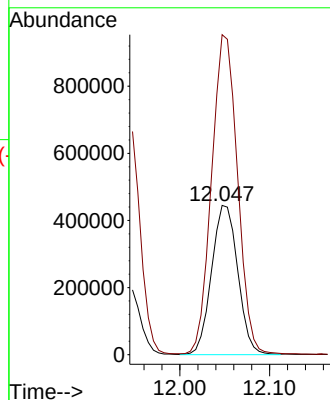
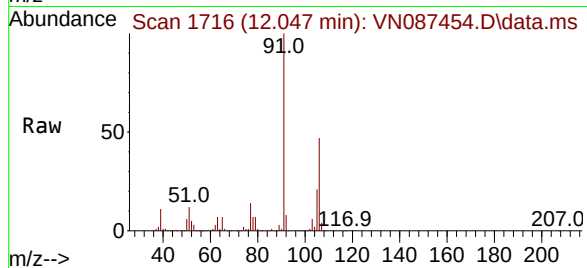
#67  
m/p-Xylenes  
Concen: 92.702 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:106 Resp: 902750  
Ion Ratio Lower Upper  
106 100  
91 212.6 174.2 261.2

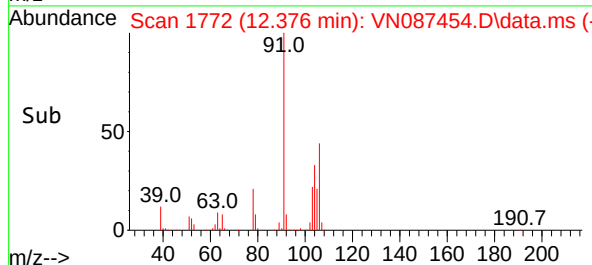
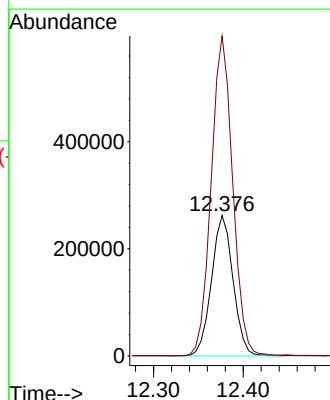
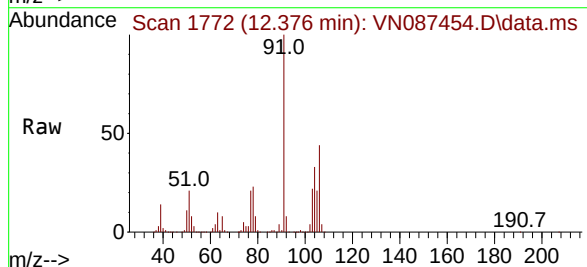
Manual Integrations  
APPROVED

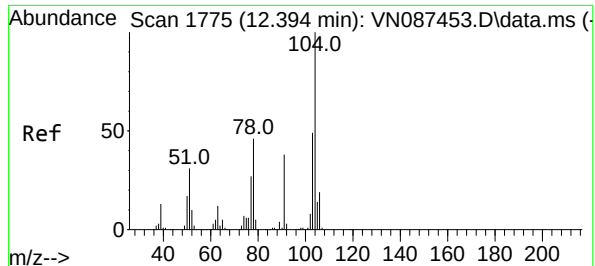
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#68  
o-Xylene  
Concen: 45.667 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:106 Resp: 437515  
Ion Ratio Lower Upper  
106 100  
91 227.1 114.5 343.5





#69

Styrene

Concen: 46.428 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

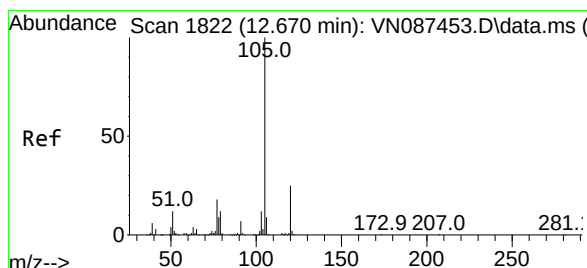
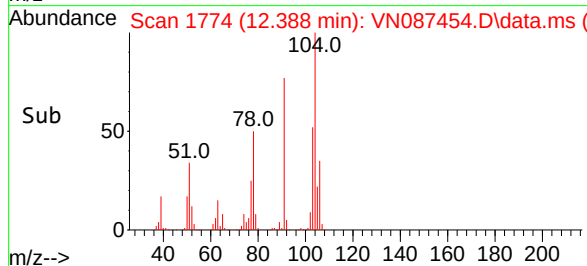
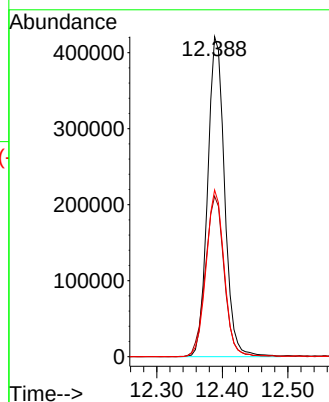
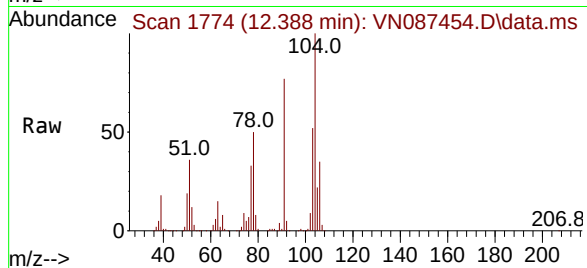
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 55.1  | 43.8  | 65.8  |
| 103     | 55.3  | 43.1  | 64.7  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 45.666 ug/l

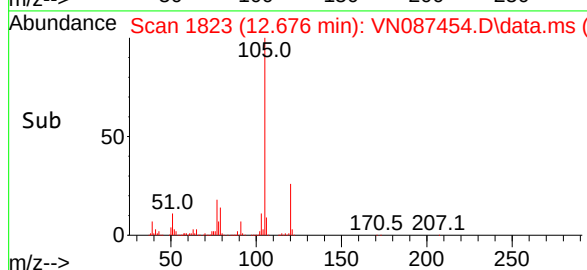
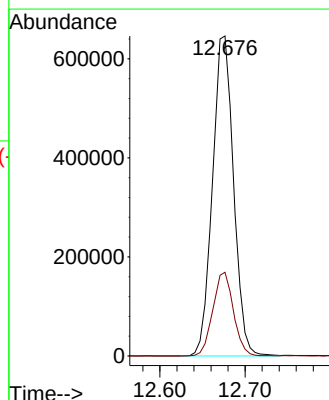
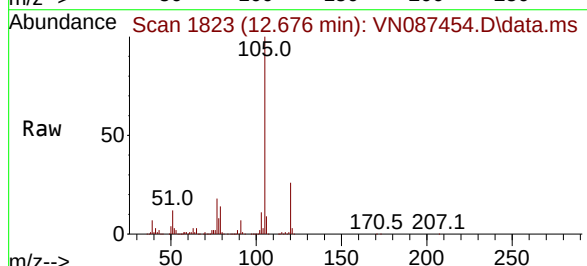
RT: 12.676 min Scan# 1823

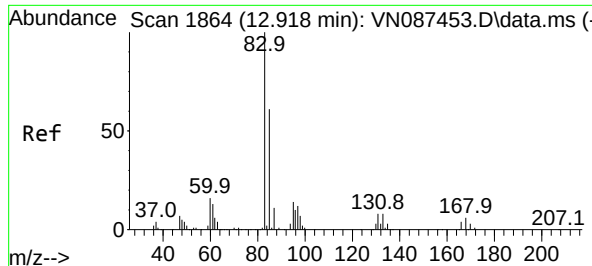
Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

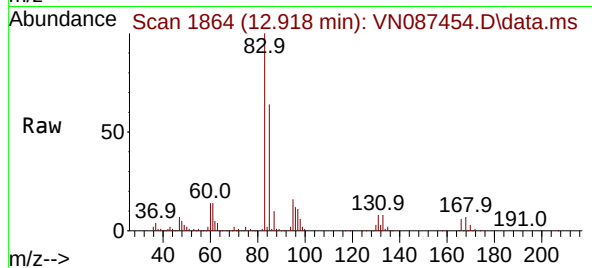
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.5  | 17.5  | 32.5  |





#71  
1,1,2-Tetrachloroethane  
Concen: 45.508 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

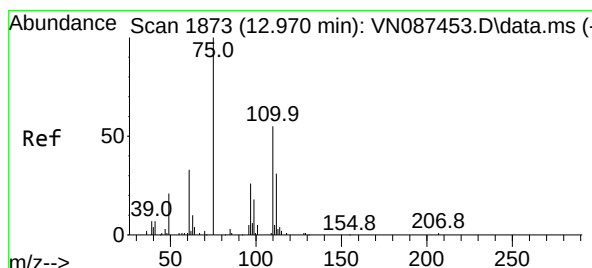
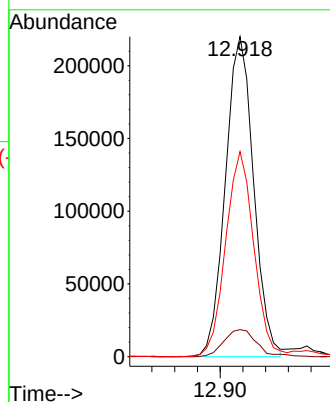
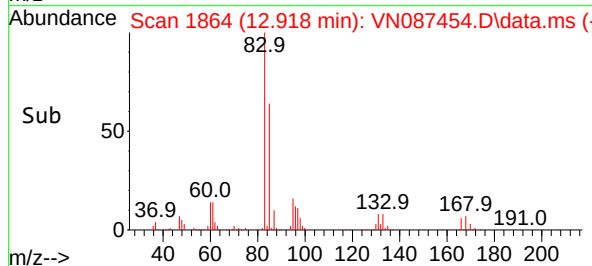
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 83 Resp: 37952  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 64.0 31.7 95.1

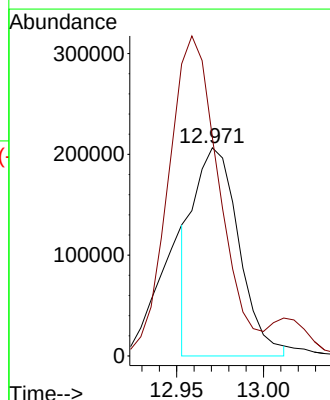
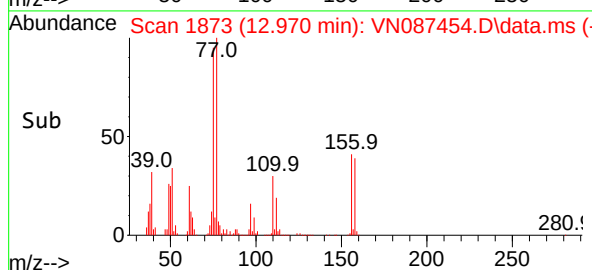
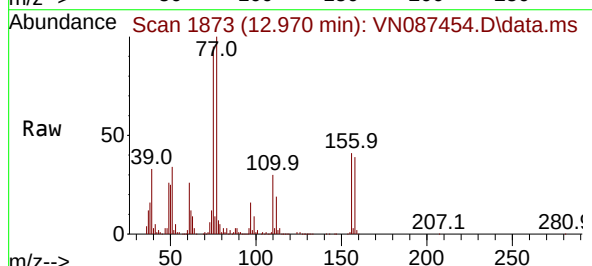
Manual Integrations  
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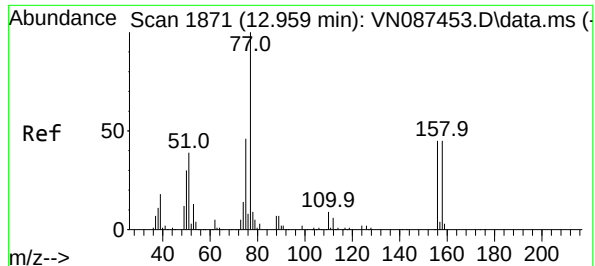
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#72  
1,2,3-Trichloropropane  
Concen: 43.638 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

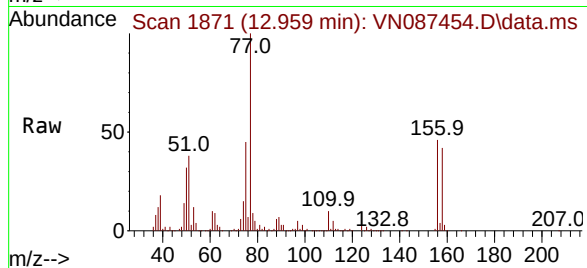
Tgt Ion: 75 Resp: 374092  
Ion Ratio Lower Upper  
75 100  
77 173.6 0.0 385.0





#73  
Bromobenzene  
Concen: 45.330 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

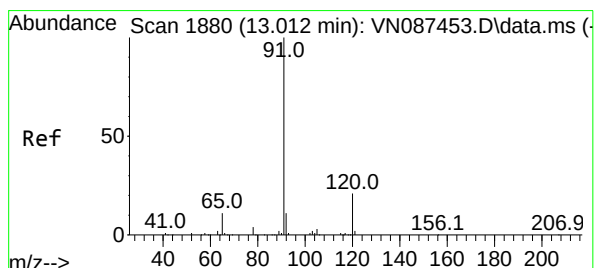
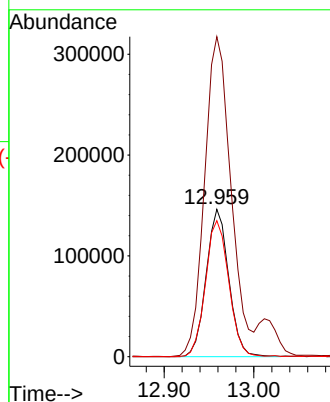
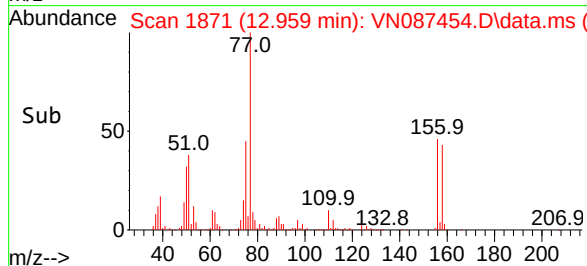
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 156 Resp: 25577  
Ion Ratio Lower Upper  
156 100  
77 253.9 0.0 506.6  
158 94.9 0.0 193.6

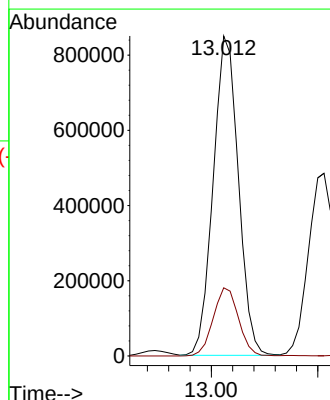
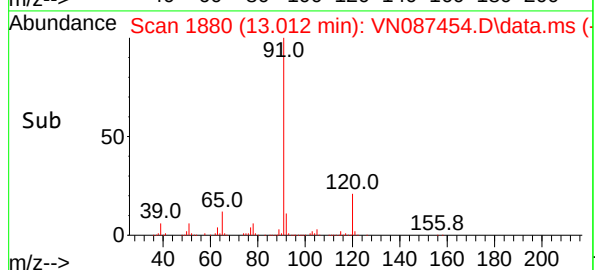
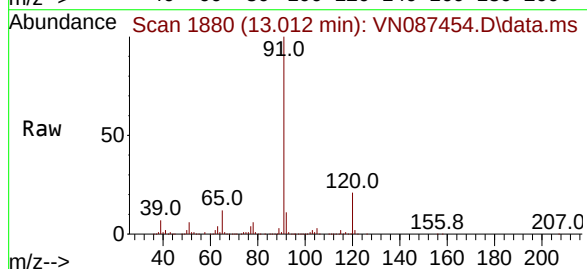
Manual Integrations  
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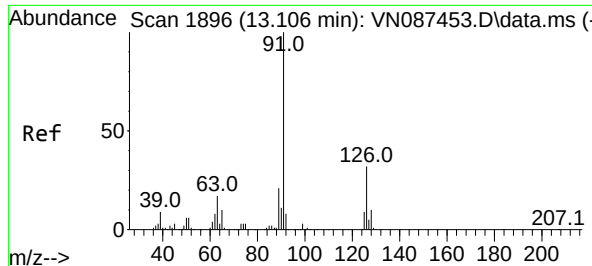
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#74  
n-propylbenzene  
Concen: 45.781 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 1391658  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 41.8





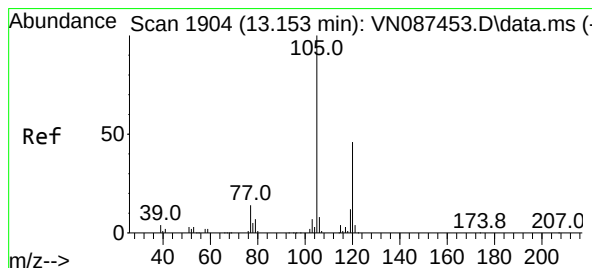
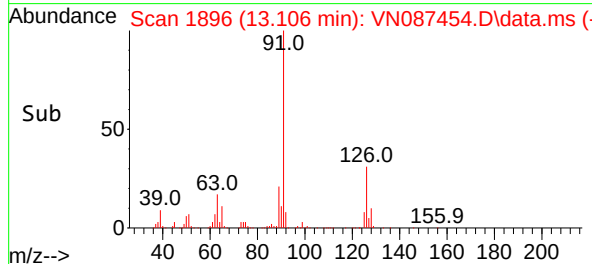
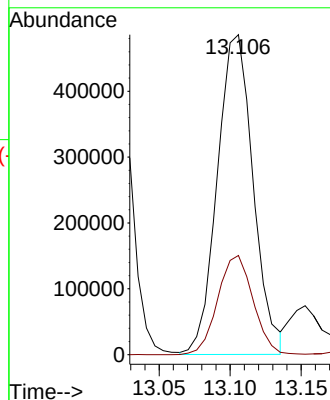
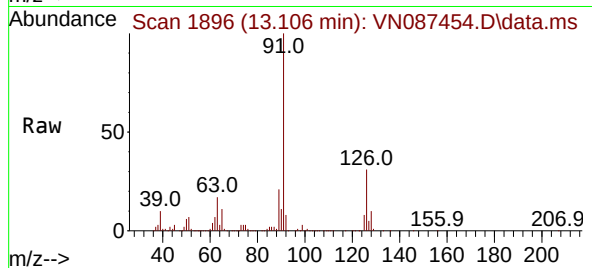
#75  
2-Chlorotoluene  
Concen: 45.659 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

Tgt Ion: 91 Resp: 85376  
Ion Ratio Lower Upper  
91 100  
126 30.6 0.0 60.4

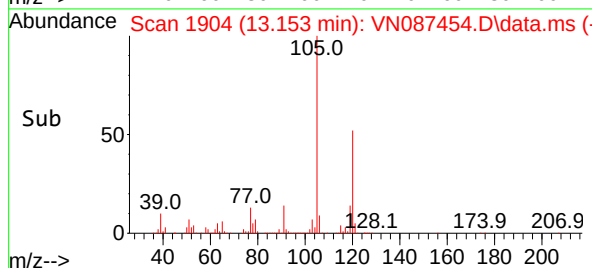
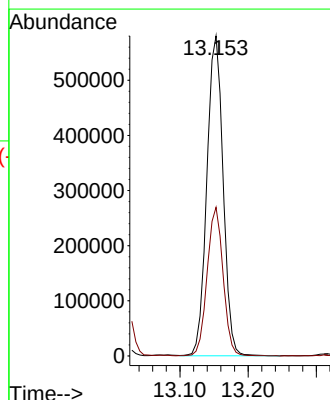
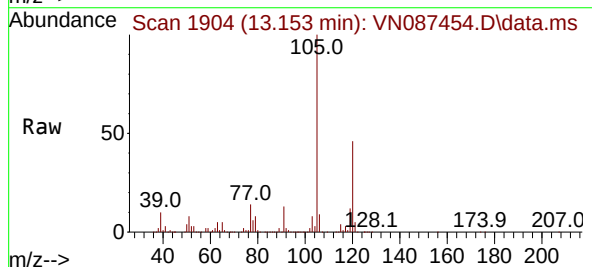
Manual Integrations  
APPROVED

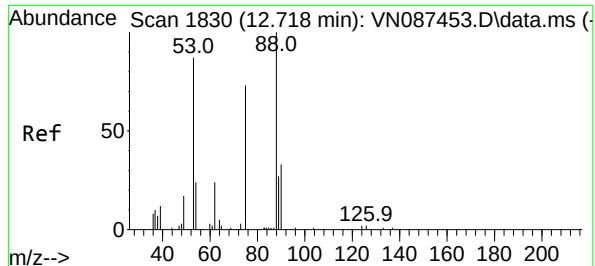
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 46.118 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:105 Resp: 961117  
Ion Ratio Lower Upper  
105 100  
120 45.8 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 48.111 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 141490

Ion Ratio Lower Upper

75 100

53 107.7 59.0 176.8

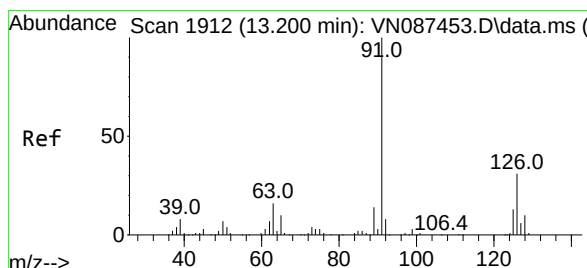
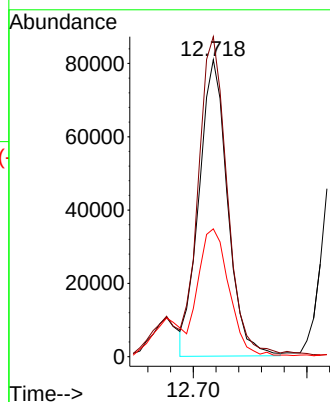
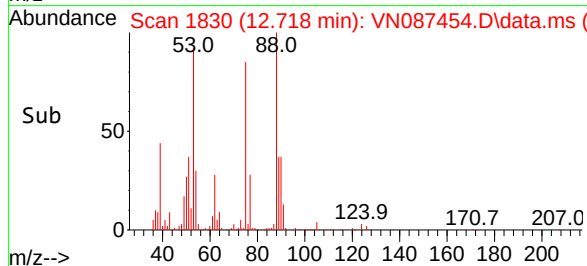
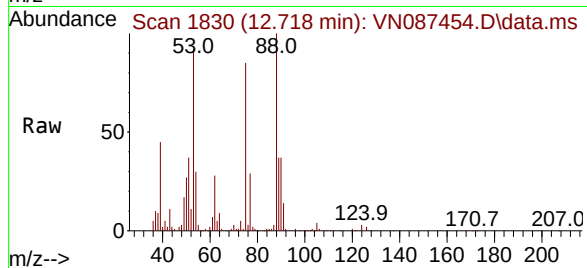
89 43.0 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 46.192 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. 0.000 min

Lab File: VN087454.D

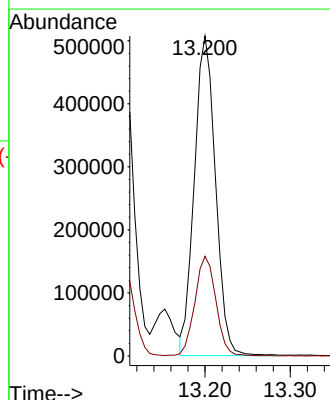
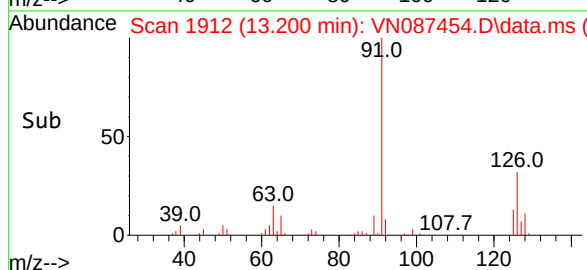
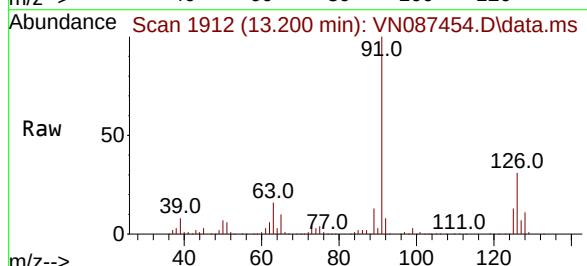
Acq: 05 Aug 2025 14:19

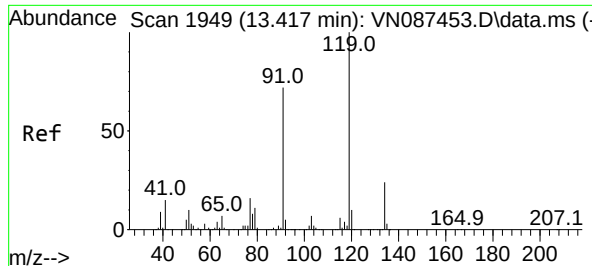
Tgt Ion: 91 Resp: 875292

Ion Ratio Lower Upper

91 100

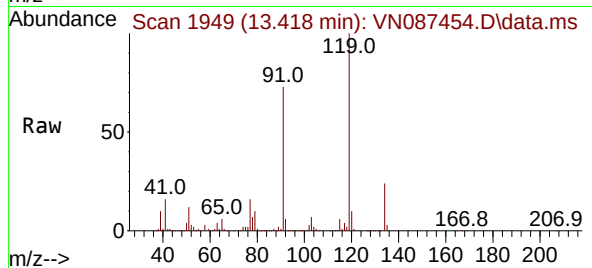
126 31.1 0.0 63.2





#79  
tert-butylbenzene  
Concen: 46.311 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

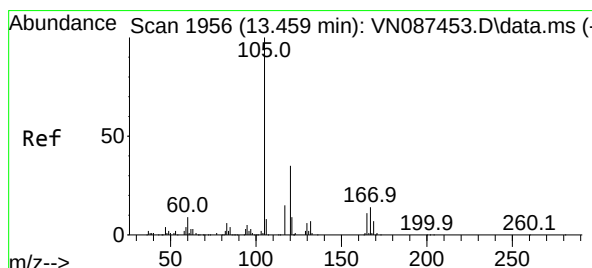
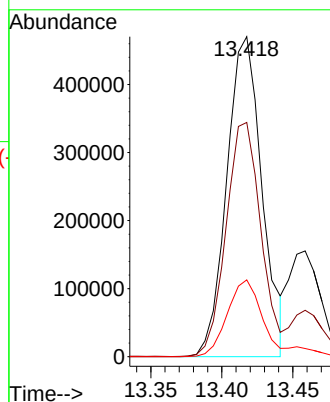
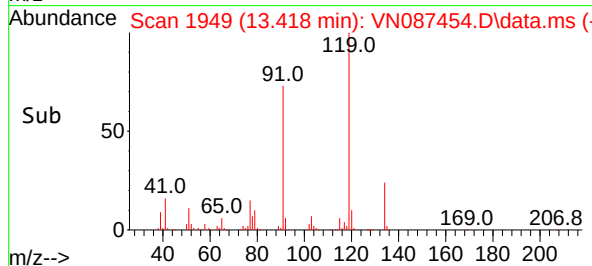
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion:119 Resp: 813723  
Ion Ratio Lower Upper  
119 100  
91 72.0 0.0 141.6  
134 23.1 0.0 45.6

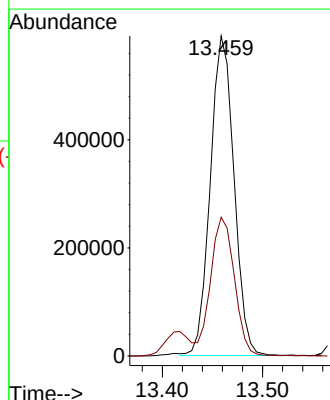
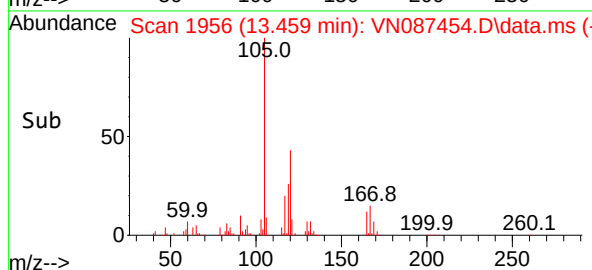
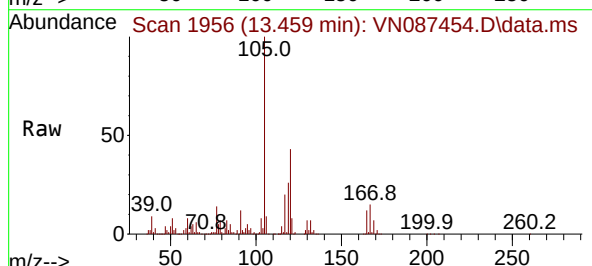
Manual Integrations  
APPROVED

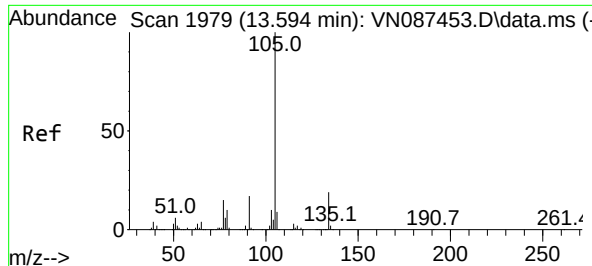
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 46.640 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

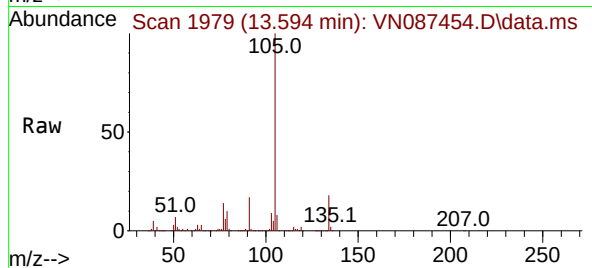
Tgt Ion:105 Resp: 971243  
Ion Ratio Lower Upper  
105 100  
120 43.9 0.0 87.2





#81  
sec-Butylbenzene  
Concen: 46.465 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

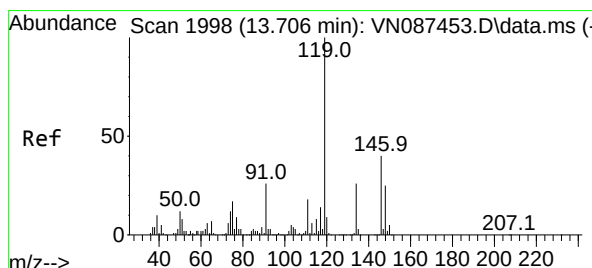
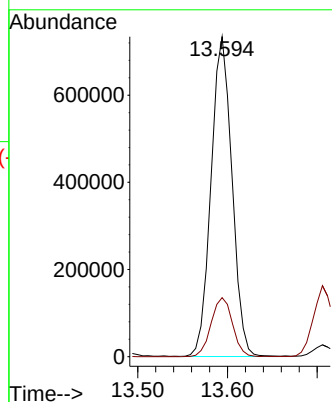
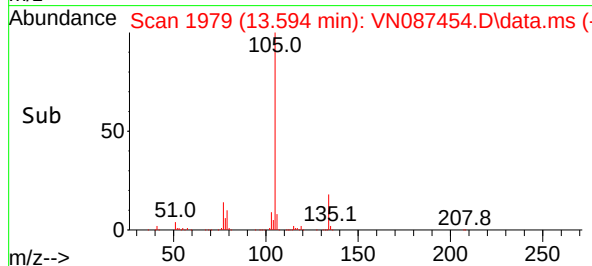
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion:105 Resp: 1188558  
Ion Ratio Lower Upper  
105 100  
134 18.8 0.0 37.6

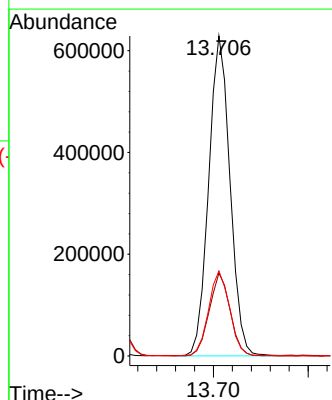
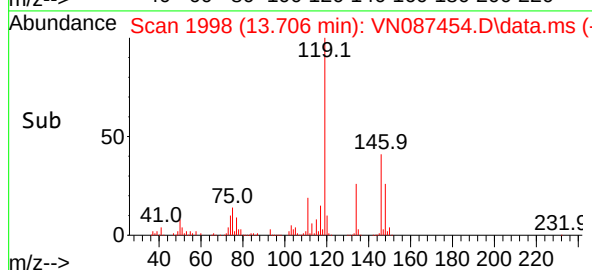
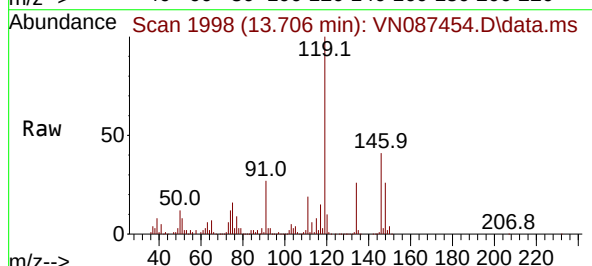
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Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

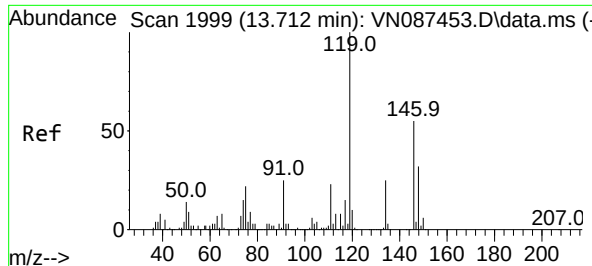


#82  
p-Isopropyltoluene  
Concen: 46.251 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:119 Resp: 982310  
Ion Ratio Lower Upper  
119 100  
134 25.3 0.0 51.4  
91 26.1 0.0 52.0







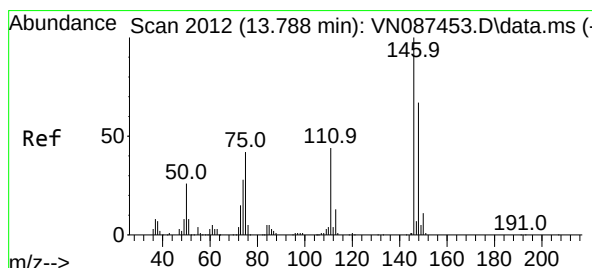
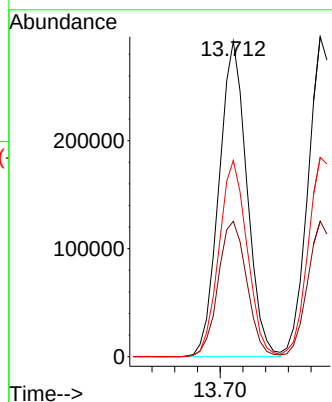
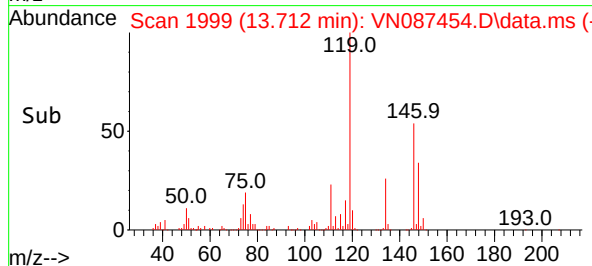
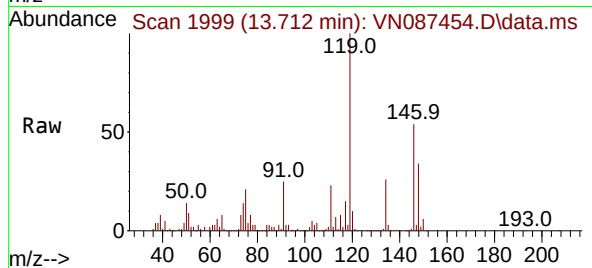
#83  
1,3-Dichlorobenzene  
Concen: 46.509 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:146 Resp: 499720  
Ion Ratio Lower Upper  
146 100  
111 44.0 21.9 65.5  
148 62.7 31.3 93.9

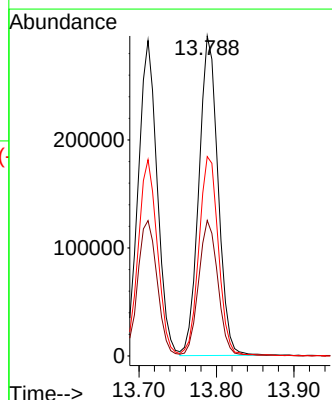
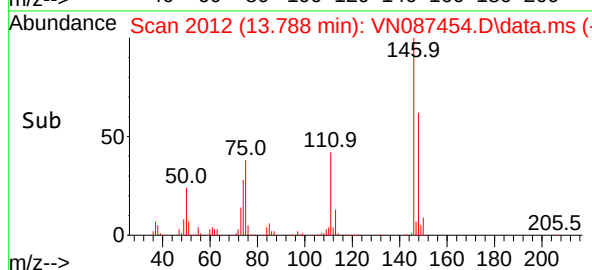
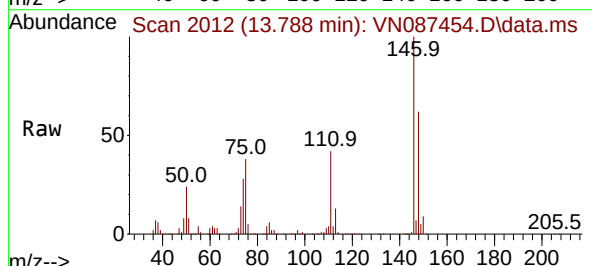
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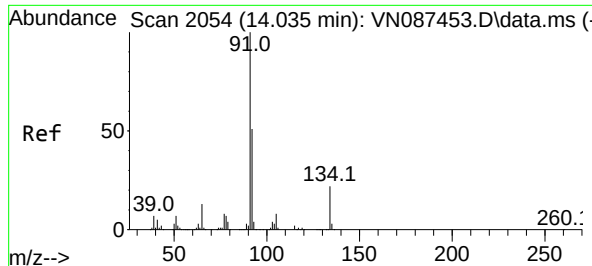
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#84  
1,4-Dichlorobenzene  
Concen: 46.603 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

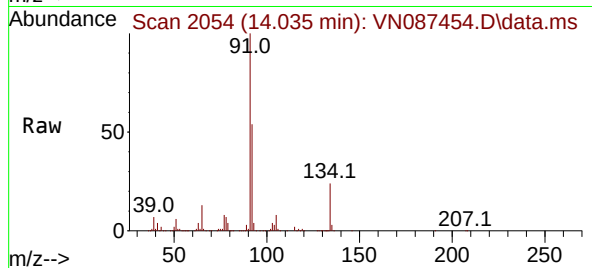
Tgt Ion:146 Resp: 507658  
Ion Ratio Lower Upper  
146 100  
111 42.8 21.1 63.1  
148 63.3 31.4 94.3





#85  
n-Butylbenzene  
Concen: 46.785 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

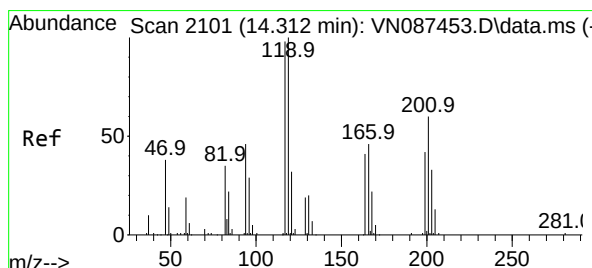
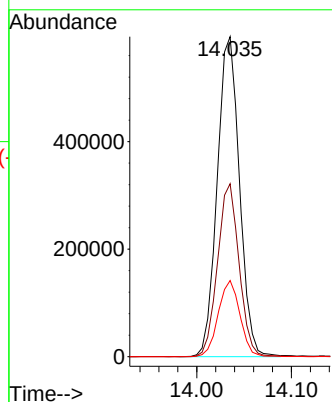
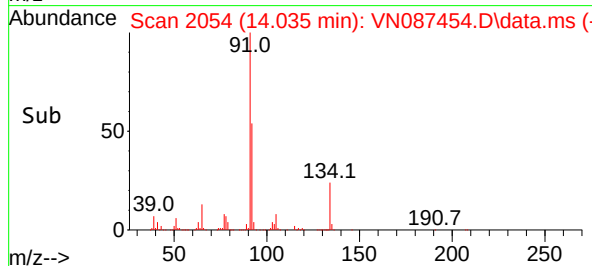
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion: 91 Resp: 972192  
Ion Ratio Lower Upper  
91 100  
92 52.4 0.0 106.6  
134 23.2 0.0 44.4

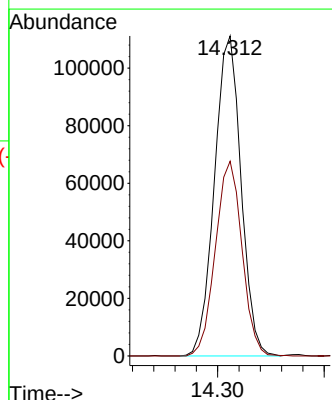
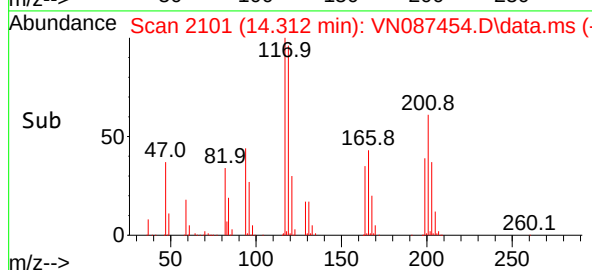
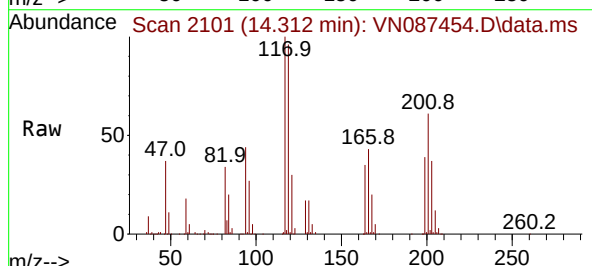
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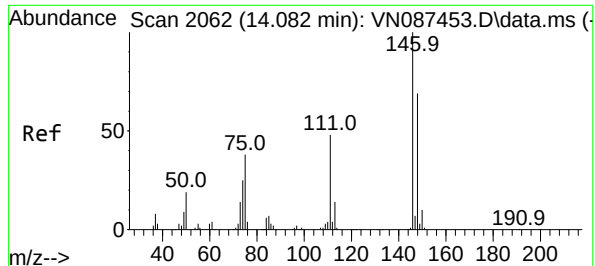
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#86  
Hexachloroethane  
Concen: 46.458 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:117 Resp: 192686  
Ion Ratio Lower Upper  
117 100  
201 60.7 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 47.005 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 48209

Ion Ratio Lower Upper

146 100

111 45.2 22.9 68.7

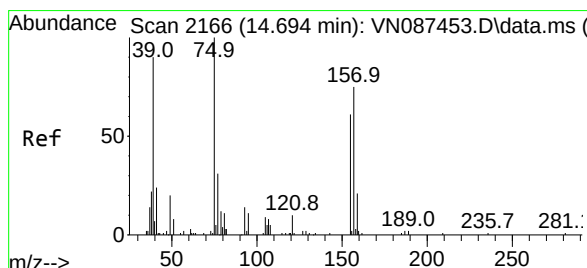
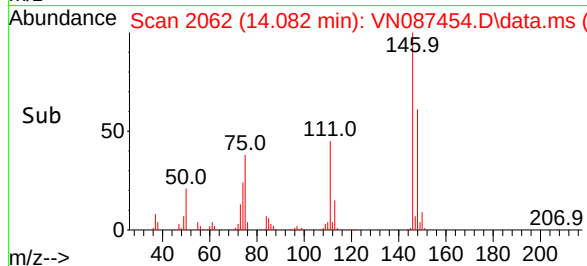
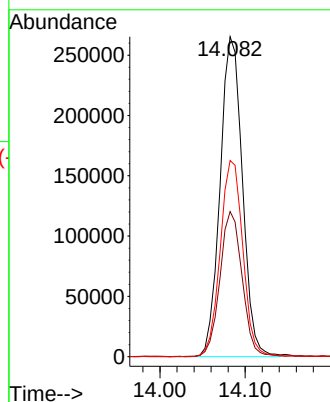
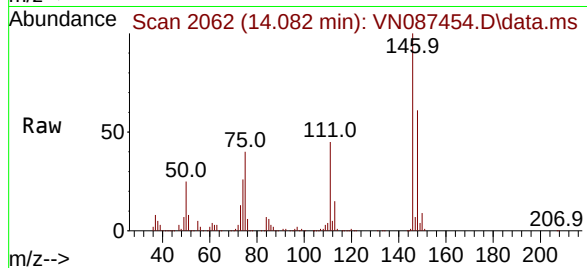
148 62.4 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 45.236 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

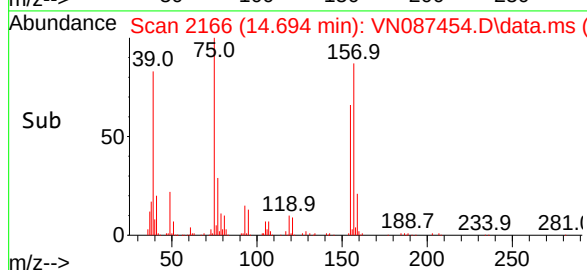
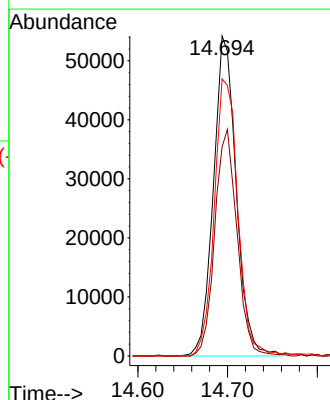
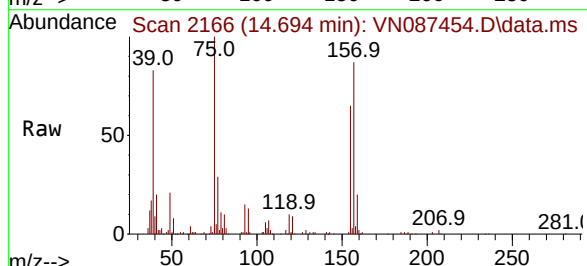
Tgt Ion: 75 Resp: 95570

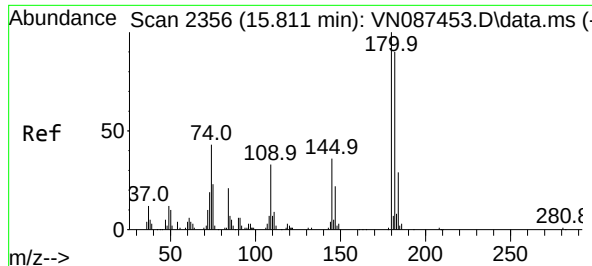
Ion Ratio Lower Upper

75 100

155 69.0 55.7 83.5

157 89.7 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 45.643 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion:180 Resp: 279770

Ion Ratio Lower Upper

180 100

182 92.5 75.0 112.4

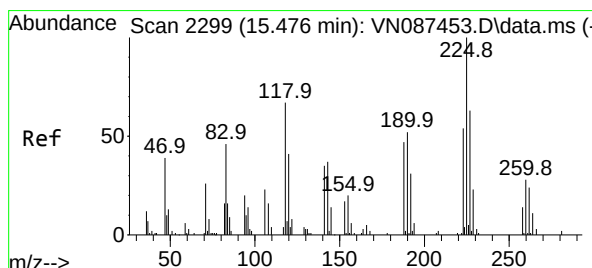
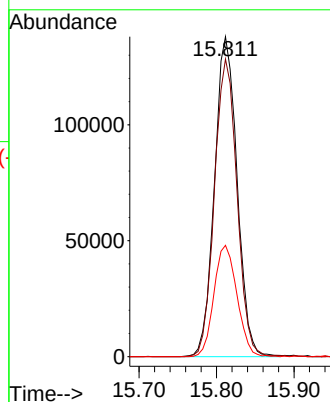
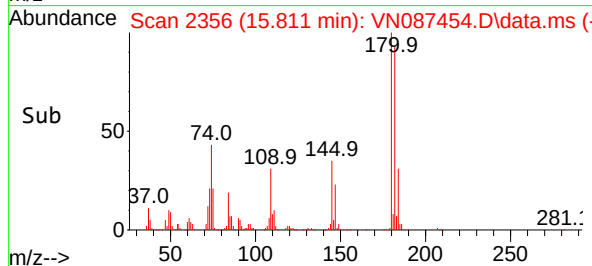
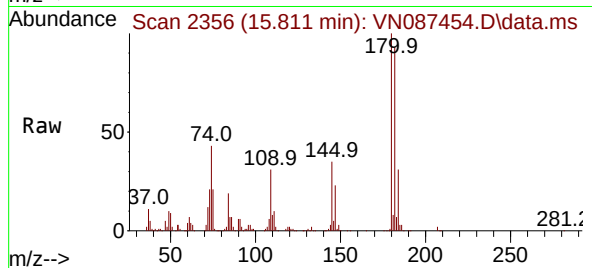
145 35.5 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 44.624 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

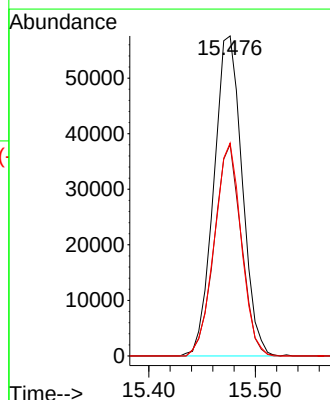
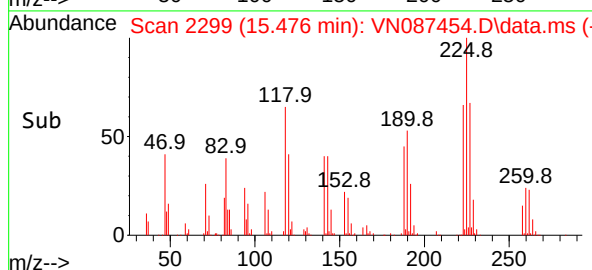
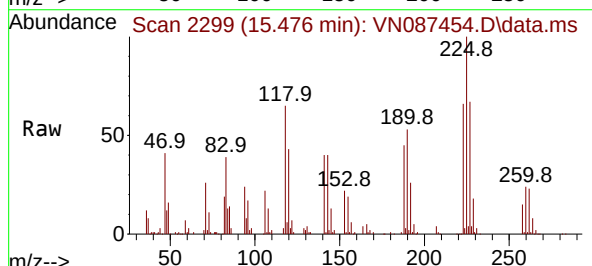
Tgt Ion:225 Resp: 106360

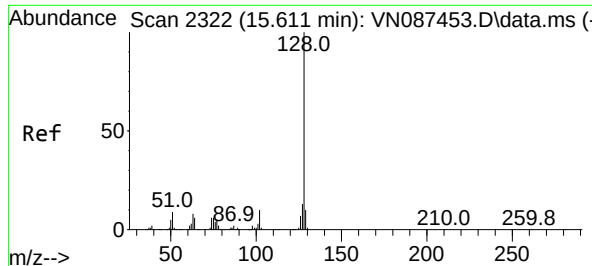
Ion Ratio Lower Upper

225 100

223 63.0 0.0 116.0

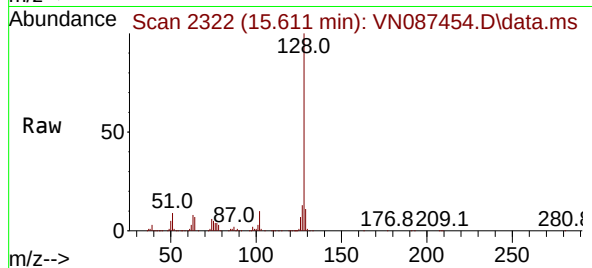
227 63.2 0.0 127.0





#91  
Naphthalene  
Concen: 46.078 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

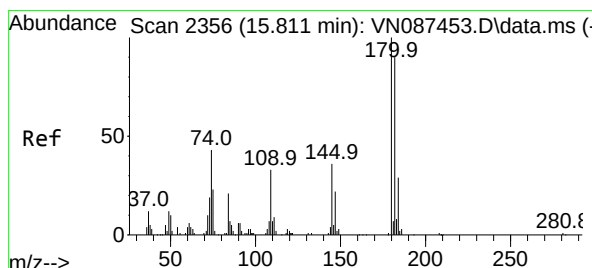
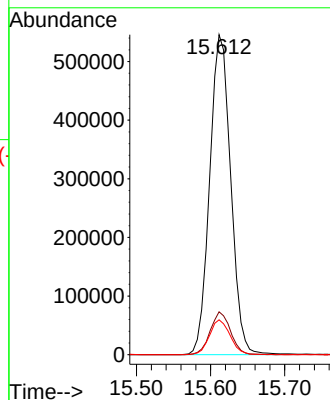
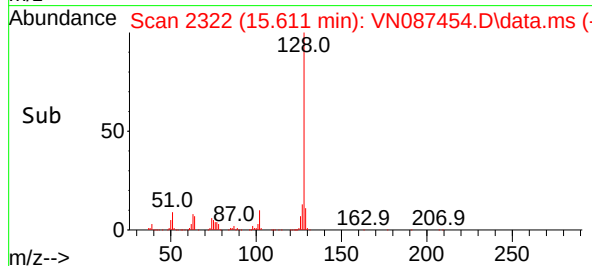
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion:128 Resp: 1076915  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.7 8.9 13.3

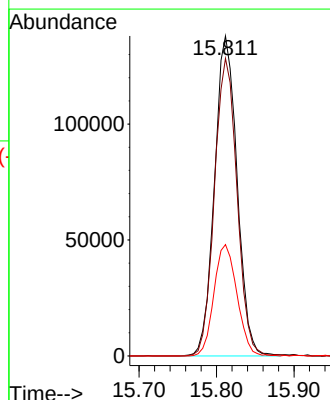
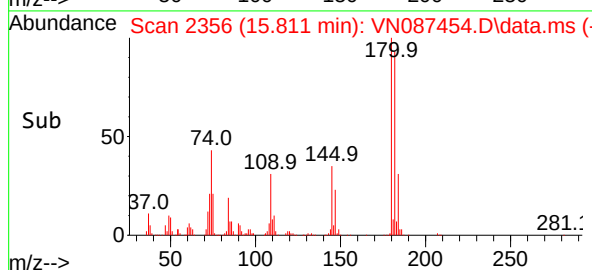
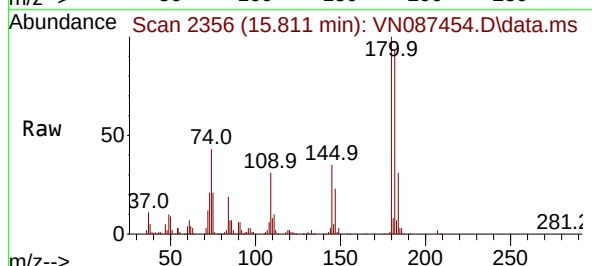
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 45.643 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:180 Resp: 279770  
Ion Ratio Lower Upper  
180 100  
182 92.5 0.0 187.4  
145 35.5 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087455.D  
 Acq On : 05 Aug 2025 14:40  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:29:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 70635      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 389326     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 359656     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 191012     | 29.319   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 97.733%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 186862     | 30.190   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 100.633% |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 498338     | 30.114   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.367% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 473762     | 102.730  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 466952     | 98.689   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.536          | 62   | 508879     | 101.402  | ug/l   | 97       |
| 5) Bromomethane              | 2.959          | 94   | 287163     | 105.716  | ug/l   | 87       |
| 6) Chloroethane              | 3.130          | 64   | 325044     | 100.444  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 716379     | 99.189   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 295673     | 98.265   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 359828     | 97.700   | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.330          | 96   | 380598     | 98.381   | ug/l   | 98       |
| 11) Methyl Iodide            | 4.577          | 142  | 380217     | 125.440  | ug/l   | 91       |
| 12) Methyl Acetate           | 5.012          | 43   | 736494     | 103.164  | ug/l   | 97       |
| 13) Acrolein                 | 4.171          | 56   | 549240     | 503.847  | ug/l   | 99       |
| 14) Acrylonitrile            | 5.706          | 53   | 1571651    | 504.158  | ug/l   | 100      |
| 15) Acetone                  | 4.424          | 58   | 418923     | 470.323  | ug/l   | 93       |
| 16) Carbon Disulfide         | 4.700          | 76   | 1199576    | 99.962   | ug/l   | 100      |
| 17) Allyl chloride           | 5.012          | 41   | 801152     | 101.602  | ug/l   | 95       |
| 18) Methylene Chloride       | 5.265          | 84   | 494371     | 99.285   | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 453658     | 98.611   | ug/l   | 93       |
| 20) Diisopropyl ether        | 6.659          | 45   | 1832338    | 102.051  | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 929854     | 100.142  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.477          | 96   | 565755     | 99.948   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 656761     | 495.796  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.788          | 73   | 1772627    | 100.557  | ug/l   | 99       |
| 25) Chloroform               | 7.947          | 83   | 966531     | 99.723   | ug/l   | 100      |
| 26) Cyclohexane              | 8.241          | 56   | 754564     | 101.498  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 642951     | 101.253  | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 2366356    | 505.563  | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 825382     | 100.781  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 825110     | 101.882  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 683314     | 101.563  | ug/l   | 97       |
| 34) Benzene                  | 8.588          | 78   | 2050407    | 102.292  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.765          | 41   | 495672     | 98.134   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 812745     | 100.306  | ug/l   | 100      |
| 37) Trichloroethene          | 9.335          | 130  | 446892     | 101.212  | ug/l   | 94       |
| 38) Methylcyclohexane        | 9.582          | 83   | 747573     | 101.482  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 518393     | 100.868  | ug/l   | 95       |
| 40) Dibromomethane           | 9.688          | 93   | 386489     | 100.231  | ug/l   | 96       |
| 41) Bromodichloromethane     | 9.871          | 83   | 808690     | 100.928  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.588          | 43   | 7820160    | 507.335  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087455.D  
 Acq On : 05 Aug 2025 14:40  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:29:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 907628   | 101.868  | ug/l   | 97       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 1558470  | 101.675  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 194002   | 1985.385 | ug/l   | 96       |
| 46) Methyl methacrylate       | 9.665  | 41   | 732745   | 101.273  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.488 | 43   | 992295   | 128.748  | ug/l # | 60       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 908224   | 104.188  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 903230   | 102.958  | ug/l   | 97       |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 500440   | 102.720  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 926992   | 108.040  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 892266   | 101.657  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.341 | 129  | 590310   | 104.918  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 537806   | 103.987  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 2236990  | 495.251  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 402717   | 108.214  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 4678202  | 505.641  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 3365074  | 535.301  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 347945   | 99.301   | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 2222660  | 100.129  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.870 | 112  | 1377291  | 100.975  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 486095   | 101.362  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 2510073  | 101.451  | ug/l   | 97       |
| 67) m/p-Xylenes               | 12.047 | 106  | 1841924  | 202.817  | ug/l   | 99       |
| 68) o-Xylene                  | 12.376 | 106  | 906317   | 101.440  | ug/l   | 100      |
| 69) Styrene                   | 12.388 | 104  | 1585501  | 103.928  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 2334192  | 102.833  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 784278   | 100.840  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 753853m  | 94.296   | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 540169   | 102.653  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 2895579  | 102.142  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 1757134  | 100.765  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 1972967  | 101.515  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 312541   | 113.952  | ug/l   | 92       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 1813669  | 102.633  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 1672735  | 102.082  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 1998320  | 102.898  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 2416128  | 101.283  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 2001765  | 101.064  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.711 | 146  | 1015919  | 101.387  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1028636  | 101.255  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 1987536  | 102.562  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.311 | 117  | 399888   | 103.386  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 976220   | 102.064  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 199216   | 101.112  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 582952   | 101.981  | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 212184   | 95.460   | ug/l   | 95       |
| 91) Naphthalene               | 15.611 | 128  | 2259551  | 103.669  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 582952   | 101.981  | ug/l   | 100      |

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



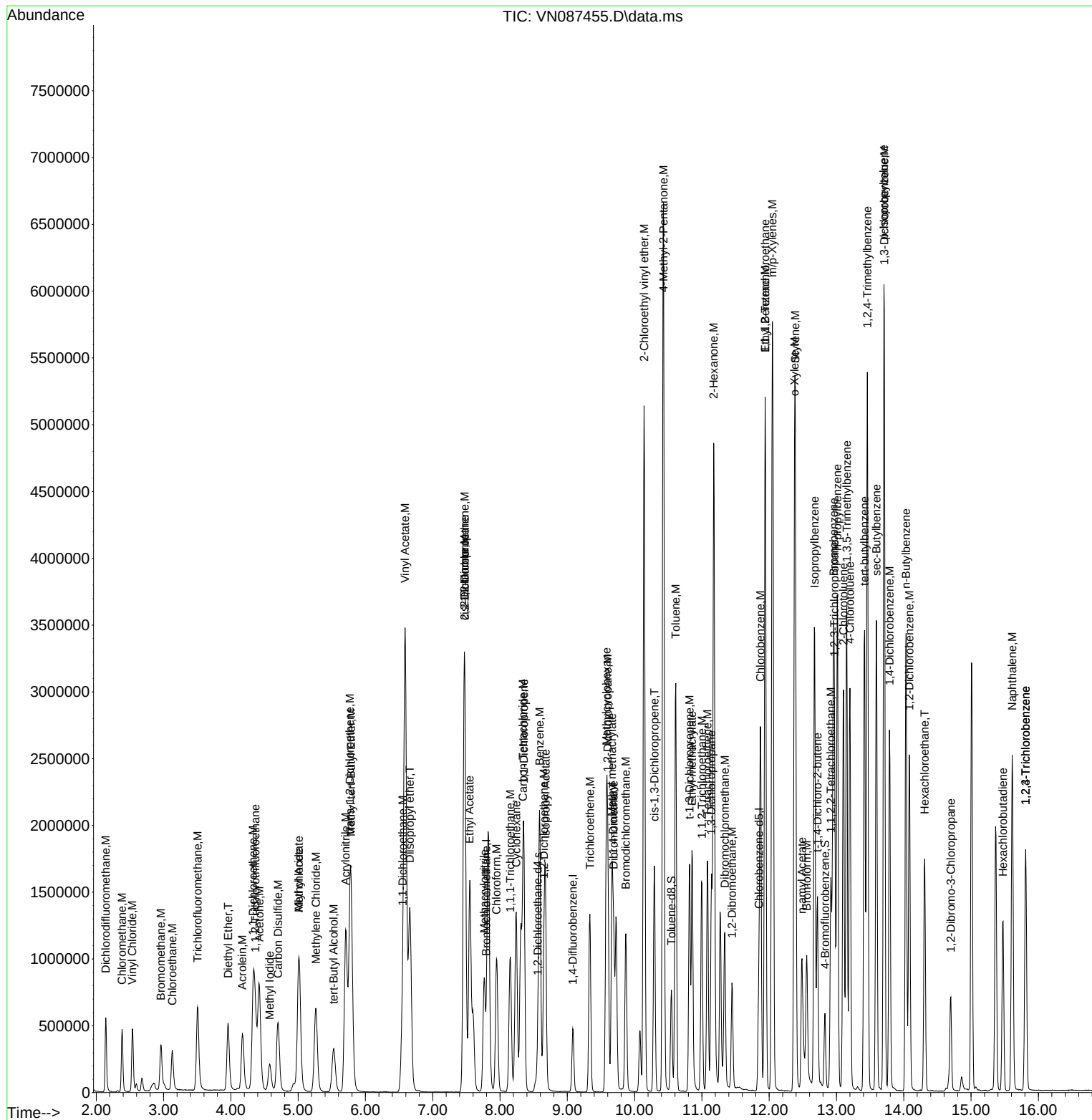
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Data File : VN087455.D  
Acq On : 05 Aug 2025 14:40  
Operator : JC\MD  
Sample : VSTDICC100  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC100

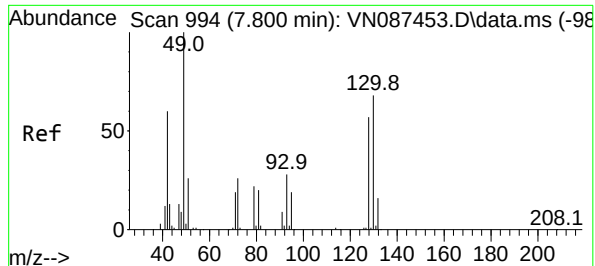
## Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:29:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration

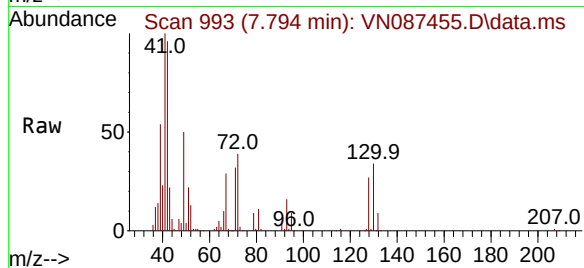






#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

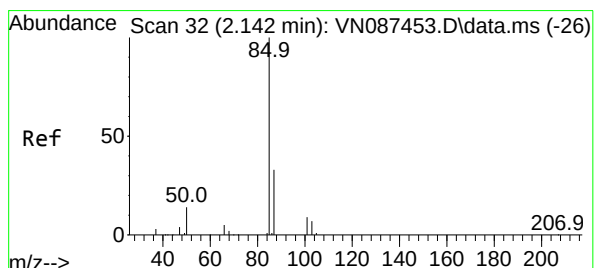
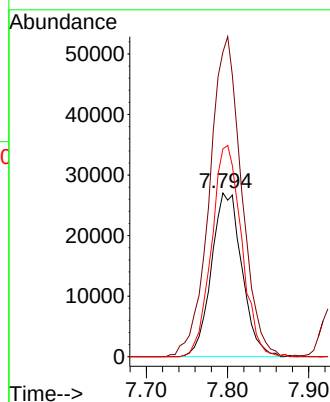
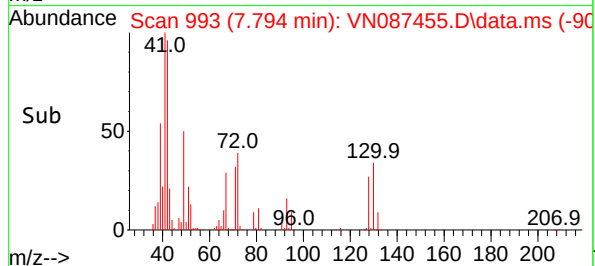
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:128 Resp: 70635  
Ion Ratio Lower Upper  
128 100  
49 205.4 0.0 494.8  
130 126.8 0.0 321.5

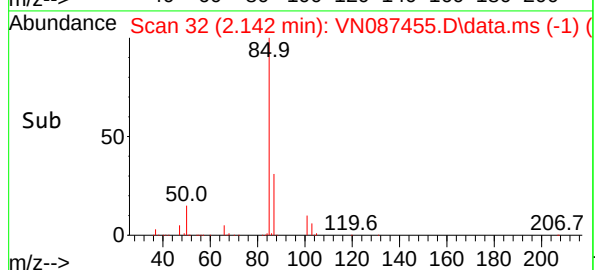
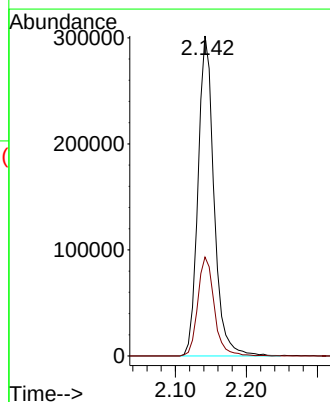
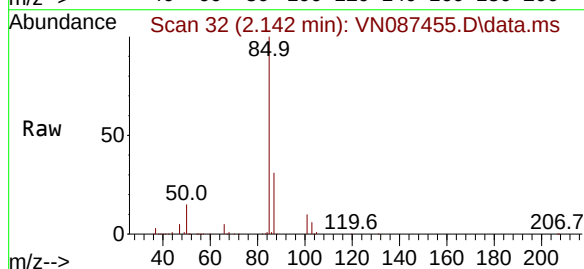
Manual Integrations  
APPROVED

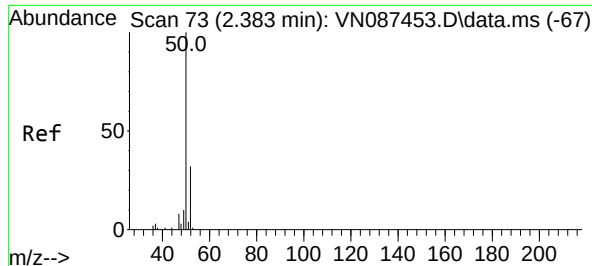
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#2  
Dichlorodifluoromethane  
Concen: 102.730 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

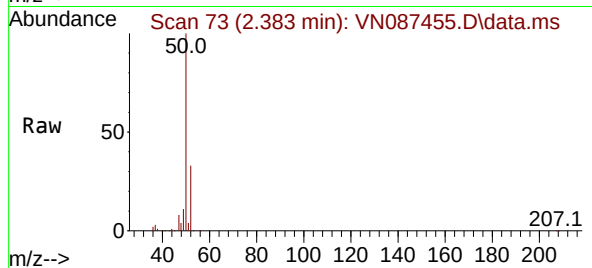
Tgt Ion: 85 Resp: 473762  
Ion Ratio Lower Upper  
85 100  
87 30.9 16.4 49.2





#3  
Chloromethane  
Concen: 98.689 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

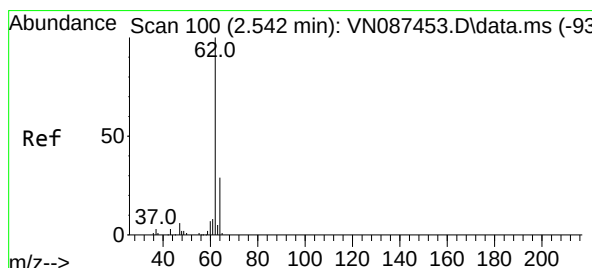
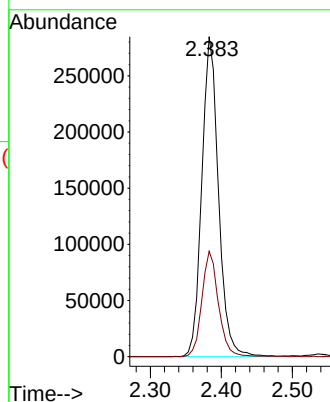
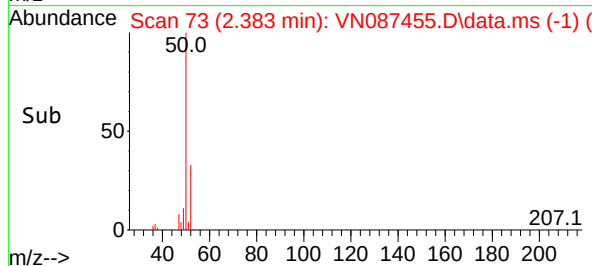
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 50 Resp: 466952  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.8 38.6

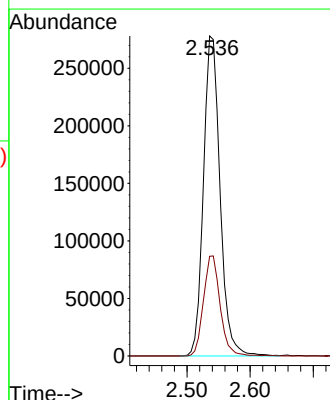
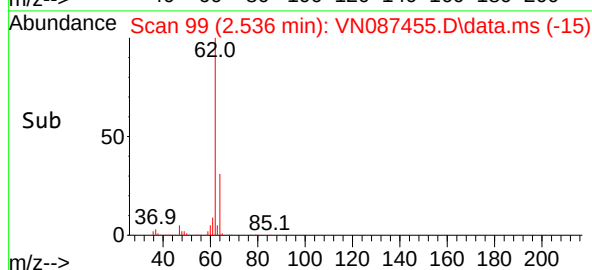
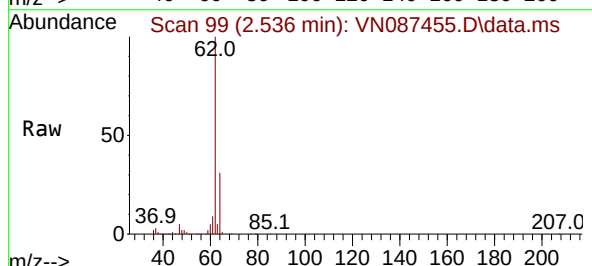
Manual Integrations  
APPROVED

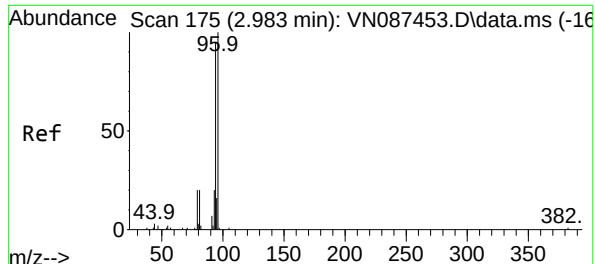
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#4  
Vinyl Chloride  
Concen: 101.402 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

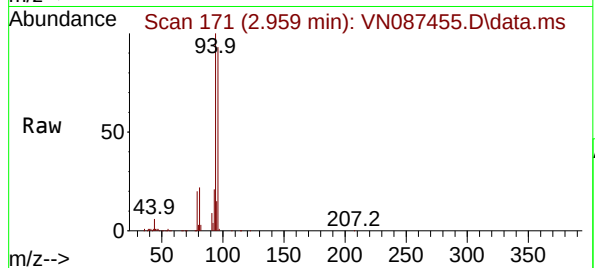
Tgt Ion: 62 Resp: 508879  
Ion Ratio Lower Upper  
62 100  
64 31.2 23.4 35.2





#5  
Bromomethane  
Concen: 105.716 ug/l  
RT: 2.959 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

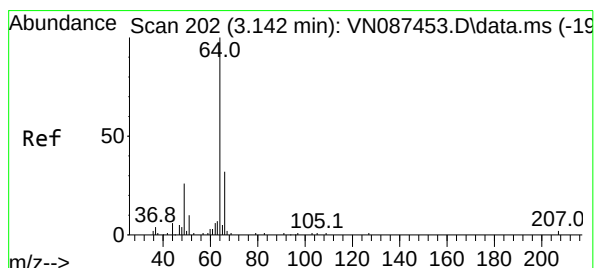
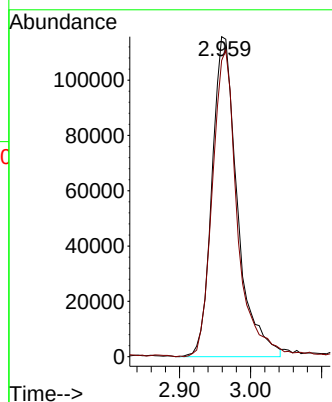
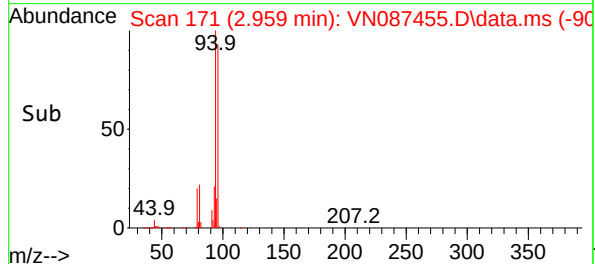
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion: 94 Resp: 28716  
Ion Ratio Lower Upper  
94 100  
96 92.3 84.2 126.4

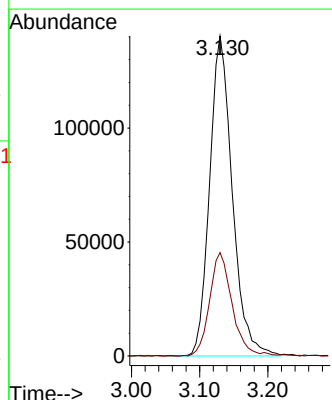
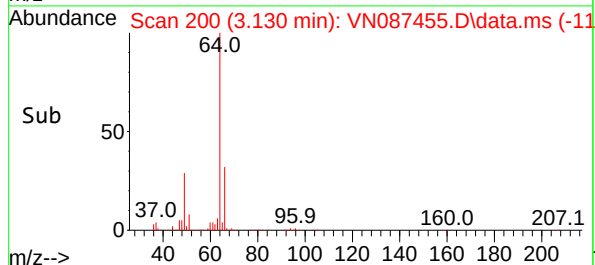
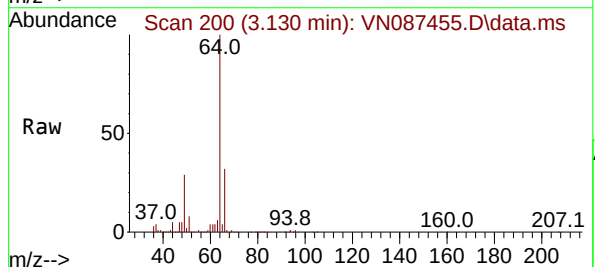
Manual Integrations  
APPROVED

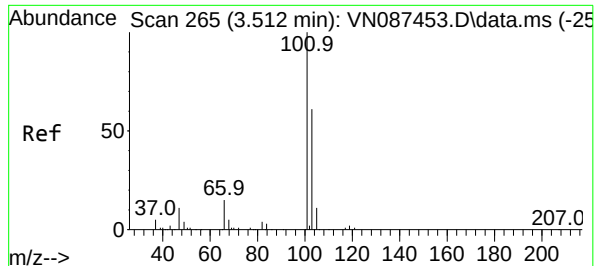
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#6  
Chloroethane  
Concen: 100.444 ug/l  
RT: 3.130 min Scan# 200  
Delta R.T. -0.012 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

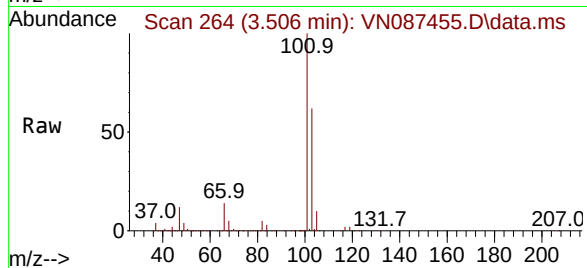
Tgt Ion: 64 Resp: 325044  
Ion Ratio Lower Upper  
64 100  
66 32.3 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 99.189 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

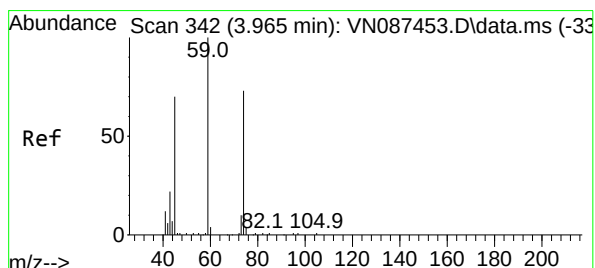
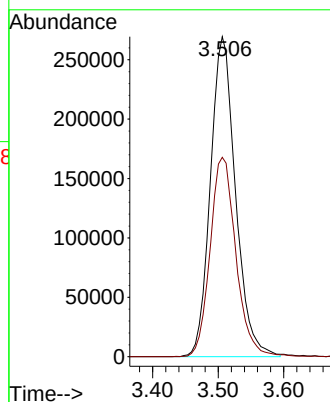
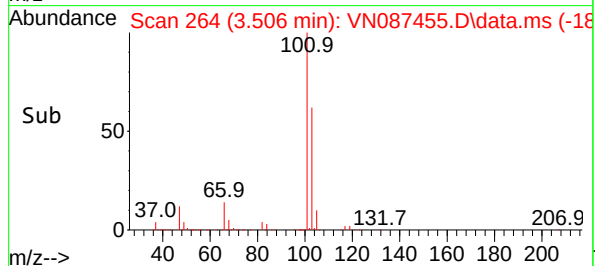
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion:101 Resp: 716379  
Ion Ratio Lower Upper  
101 100  
103 62.2 49.2 73.8

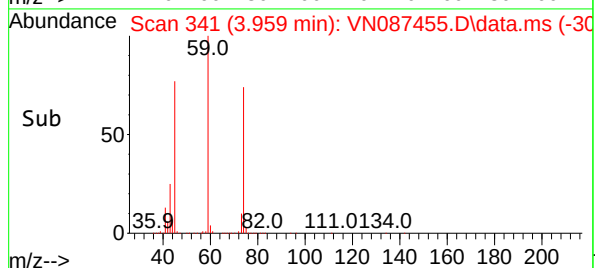
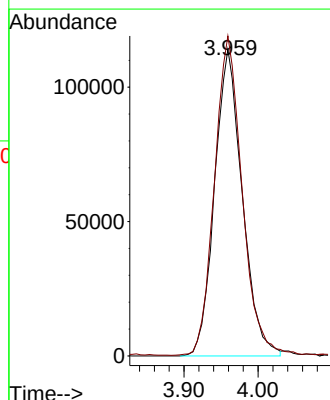
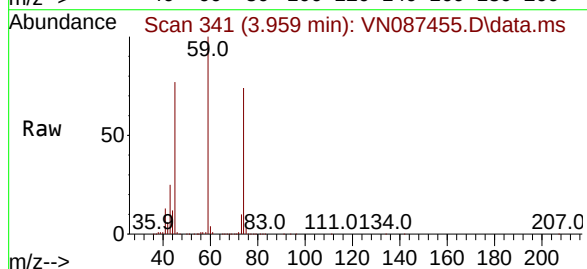
Manual Integrations  
APPROVED

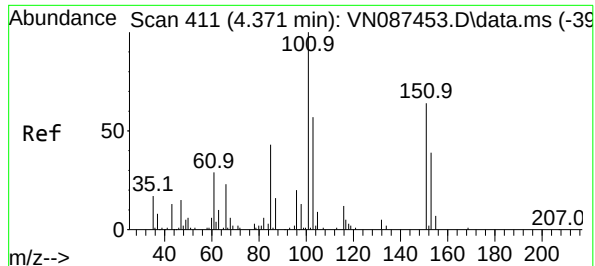
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 98.265 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 74 Resp: 295673  
Ion Ratio Lower Upper  
74 100  
45 103.8 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 97.700 ug/l

RT: 4.365 min Scan# 411

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 359828

Ion Ratio Lower Upper

101 100

85 47.7 0.0 57.0

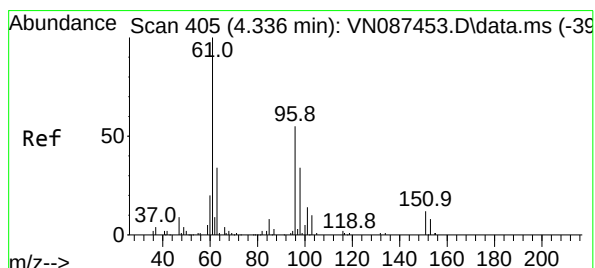
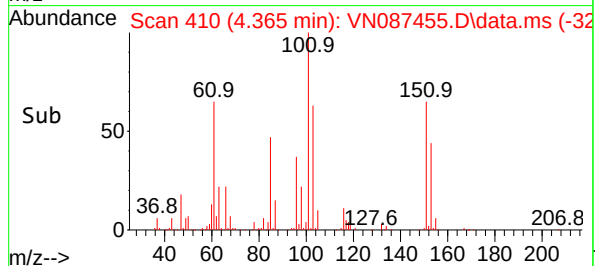
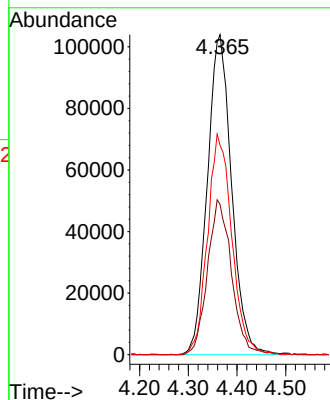
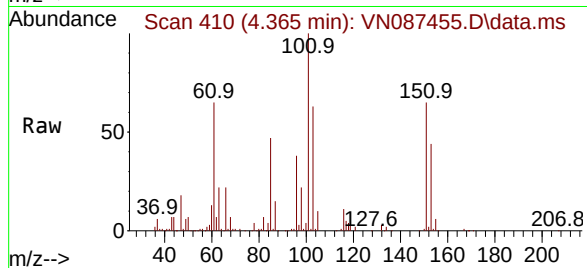
151 69.0 0.0 134.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#10

1,1-Dichloroethene

Concen: 98.381 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

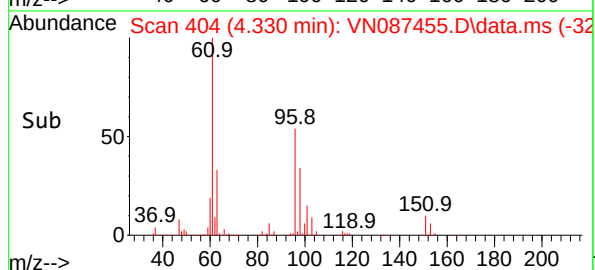
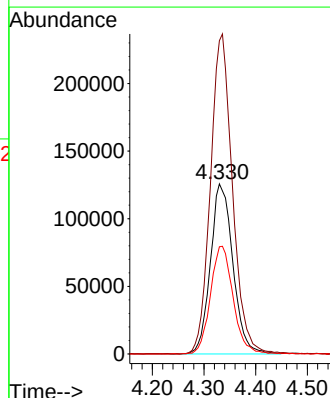
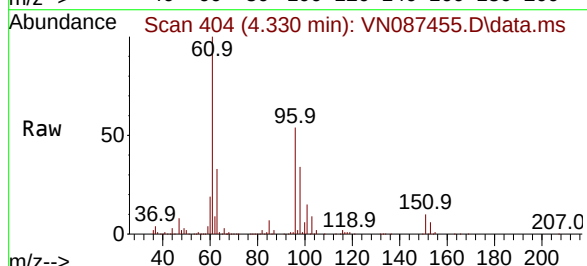
Tgt Ion: 96 Resp: 380598

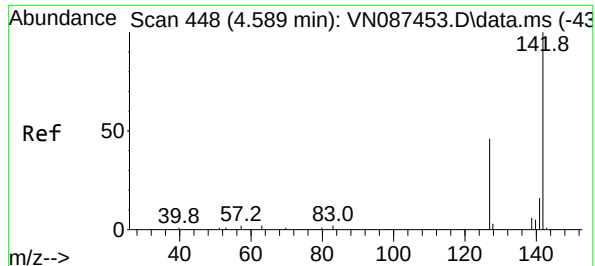
Ion Ratio Lower Upper

96 100

61 184.2 144.2 216.4

98 63.0 49.7 74.5





#11

Methyl Iodide

Concen: 125.440 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087455.D

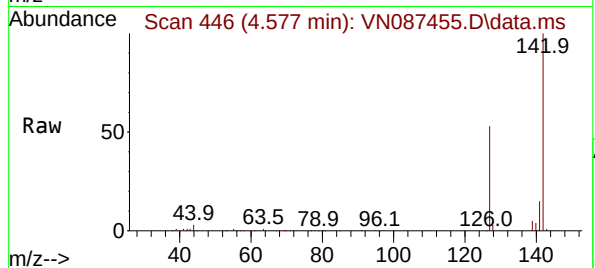
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100



Tgt Ion:142 Resp: 38021

Ion Ratio Lower Upper

142 100

127 53.0 22.9 68.7

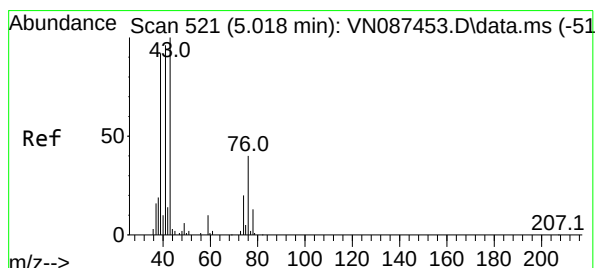
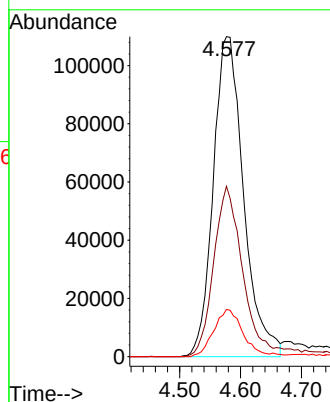
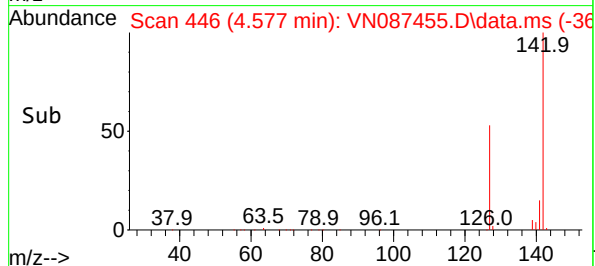
141 14.7 7.7 23.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 103.164 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087455.D

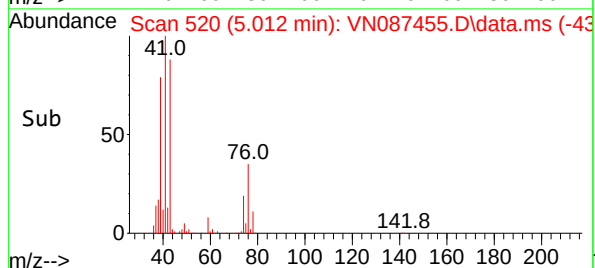
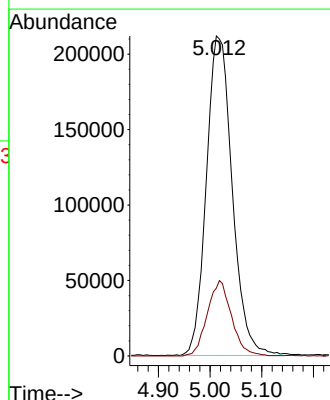
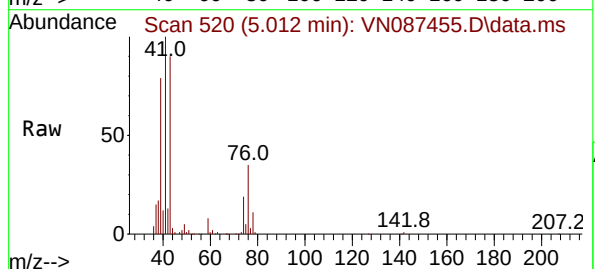
Acq: 05 Aug 2025 14:40

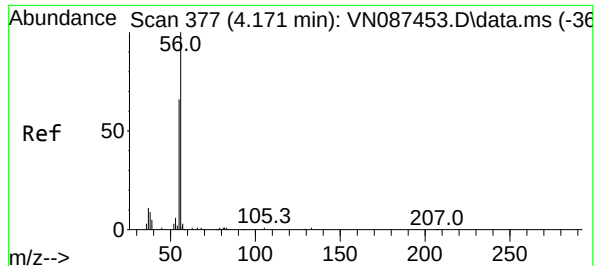
Tgt Ion: 43 Resp: 736494

Ion Ratio Lower Upper

43 100

74 21.2 16.0 24.0





#13

Acrolein

Concen: 503.847 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 549240

Ion Ratio Lower Upper

56 100

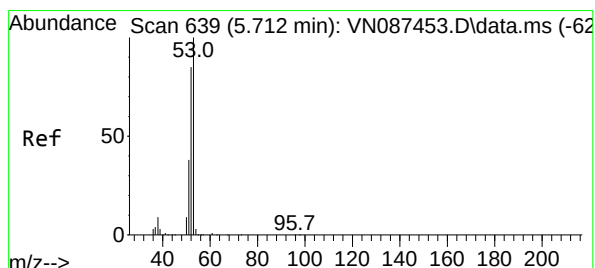
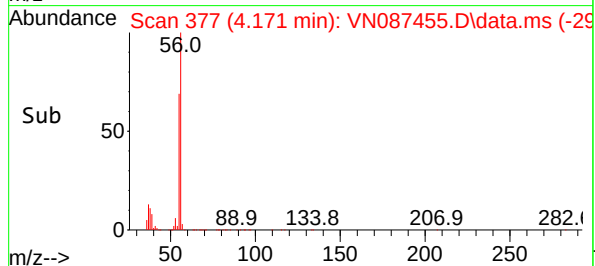
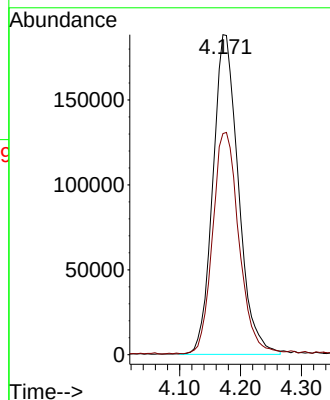
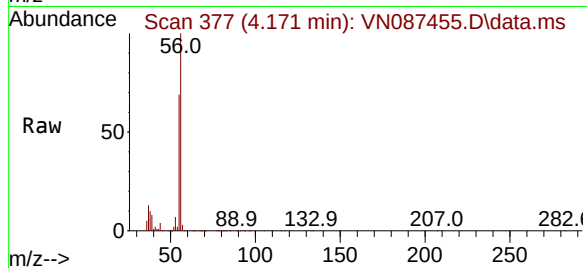
55 71.1 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 504.158 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

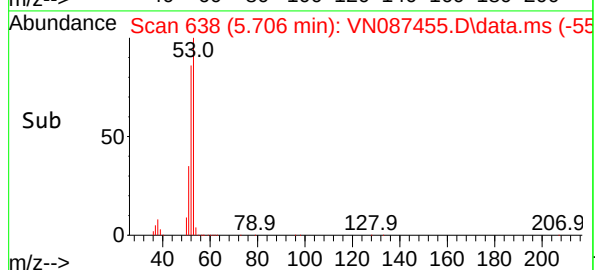
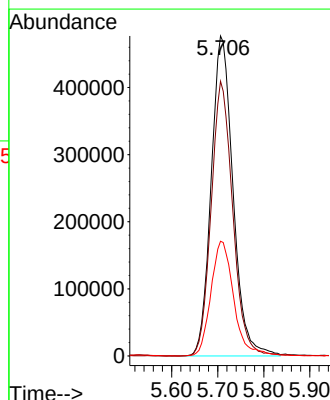
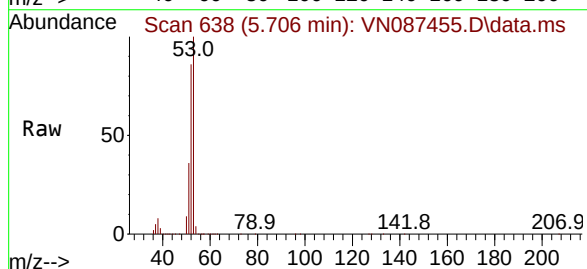
Tgt Ion: 53 Resp: 1571651

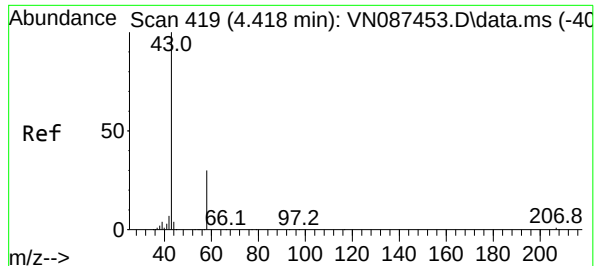
Ion Ratio Lower Upper

53 100

52 84.6 42.4 127.2

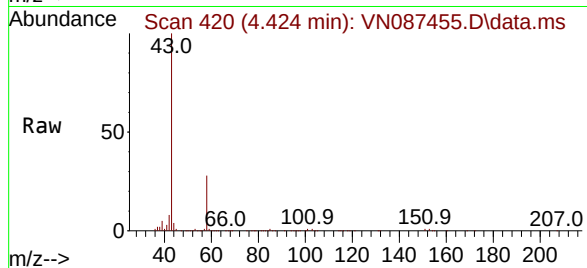
51 37.5 18.5 55.5





#15  
Acetone  
Concen: 470.323 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

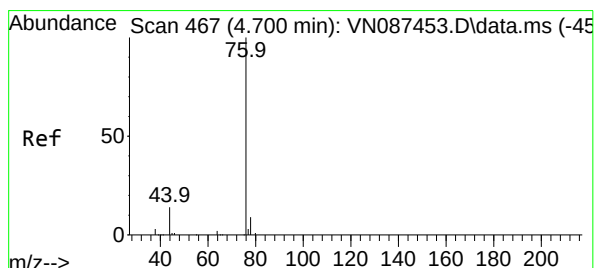
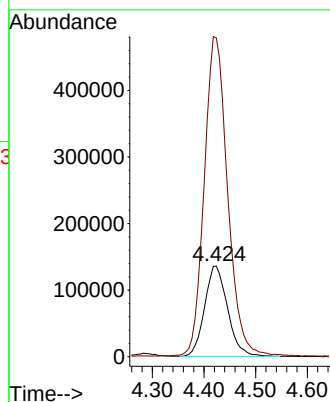
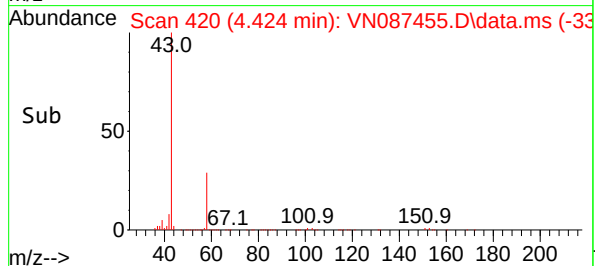
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 58 Resp: 418923  
Ion Ratio Lower Upper  
58 100  
43 351.4 268.9 403.3

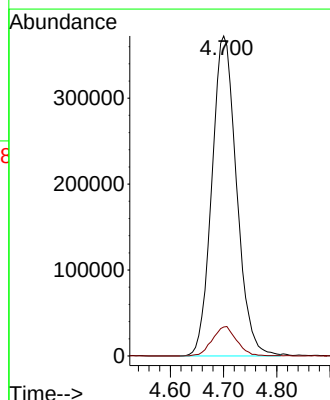
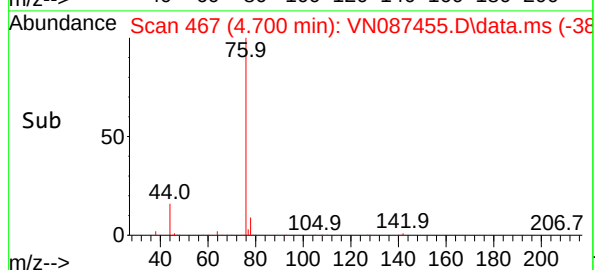
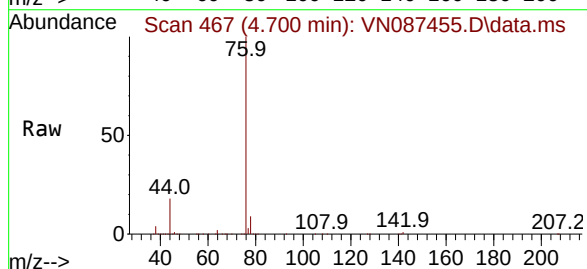
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

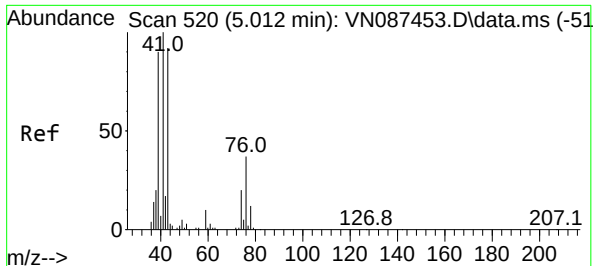


#16  
Carbon Disulfide  
Concen: 99.962 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 76 Resp: 1199576  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7







#17

Allyl chloride

Concen: 101.602 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087455.D

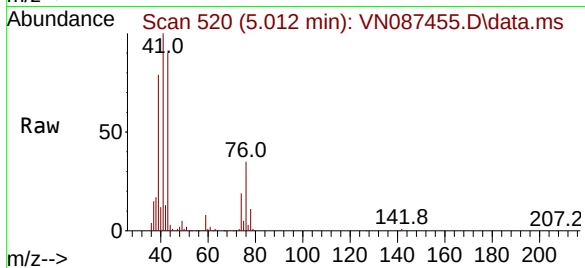
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

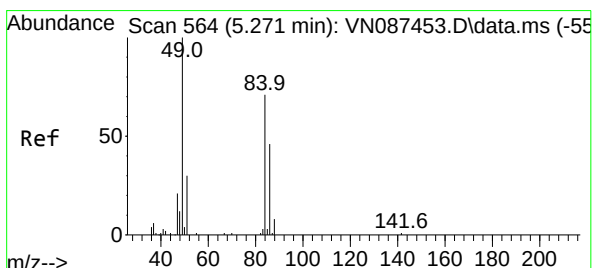
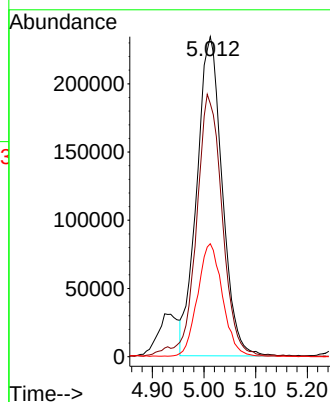
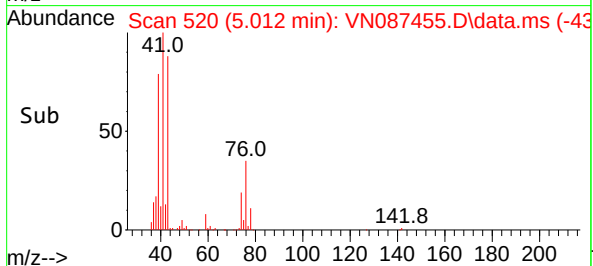
VSTDIC100



| Tgt Ion: | 41    | Resp: | 80115 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 79.0  | 42.4  | 127.2 |
| 76       | 35.3  | 16.9  | 50.6  |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

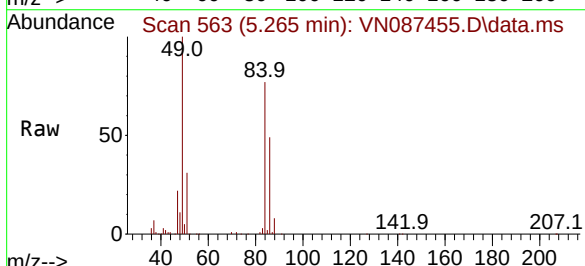
Concen: 99.285 ug/l

RT: 5.265 min Scan# 563

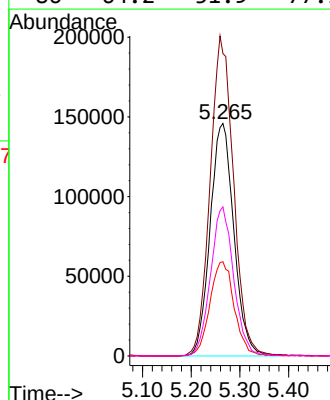
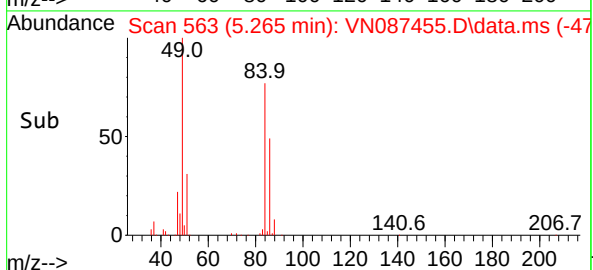
Delta R.T. -0.006 min

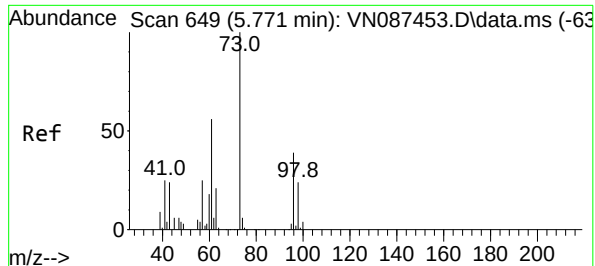
Lab File: VN087455.D

Acq: 05 Aug 2025 14:40



| Tgt Ion: | 84    | Resp: | 494371 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 130.1 | 112.9 | 169.3  |
| 51       | 40.4  | 33.8  | 50.8   |
| 86       | 64.2  | 51.9  | 77.9   |





#19

trans-1,2-Dichloroethene

Concen: 98.611 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 453658

Ion Ratio Lower Upper

96 100

61 152.1 114.2 171.4

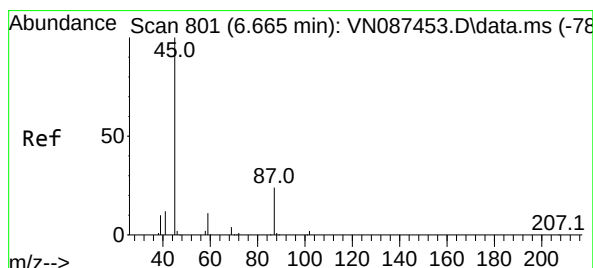
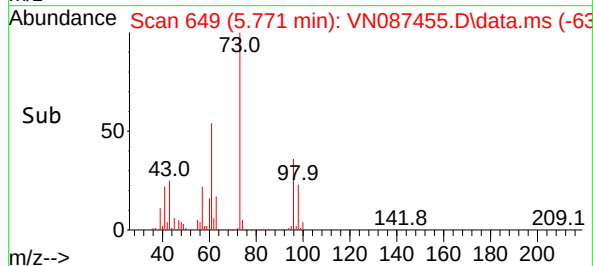
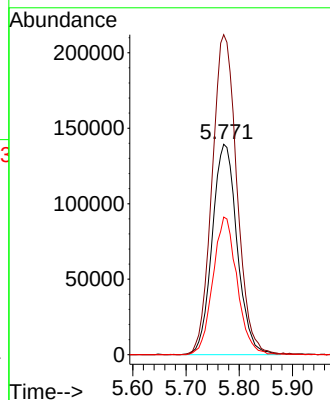
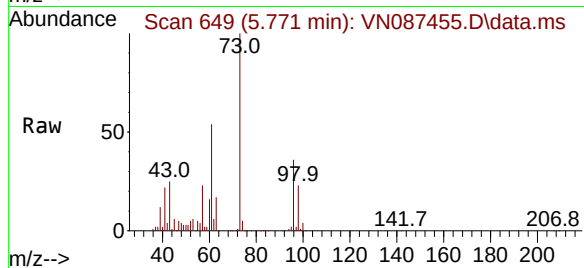
98 65.4 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 102.051 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 45 Resp: 1832338

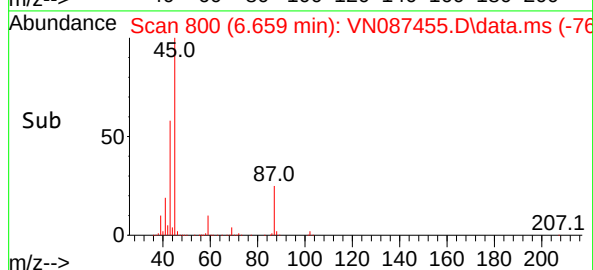
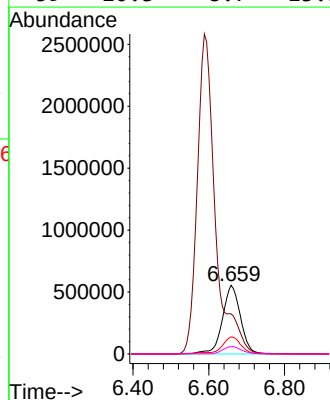
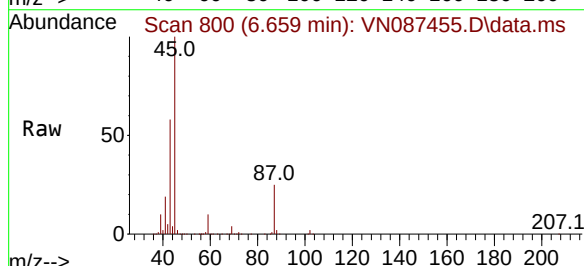
Ion Ratio Lower Upper

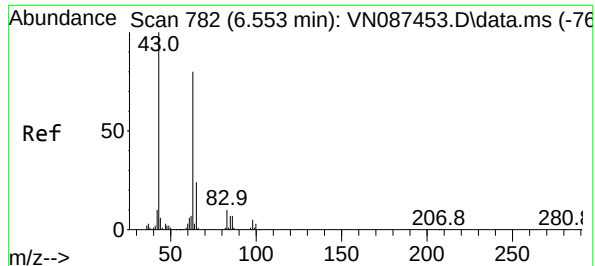
45 100

43 57.9 44.7 67.1

87 24.8 20.2 30.2

59 10.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 100.142 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 929854

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

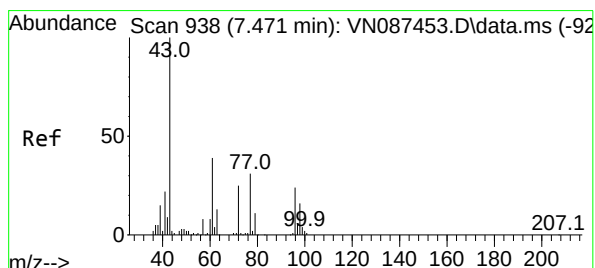
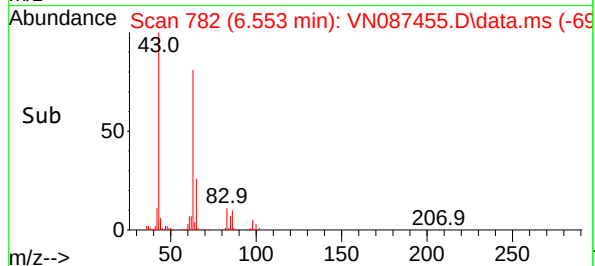
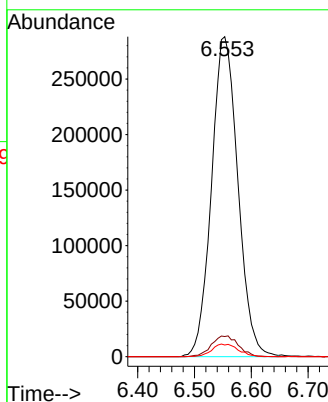
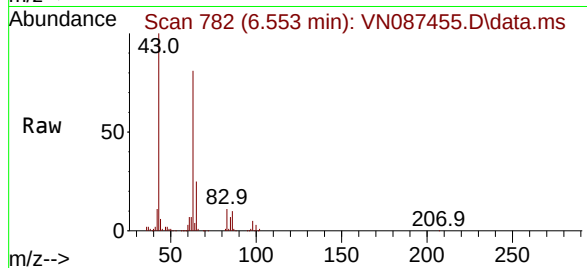
100 3.7 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 99.948 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

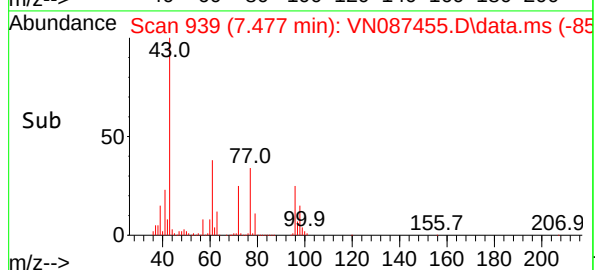
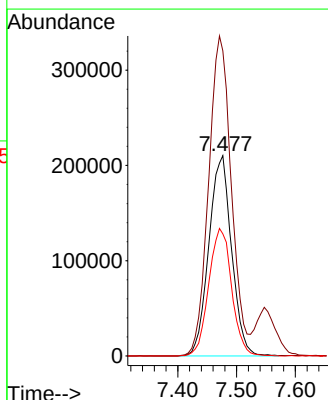
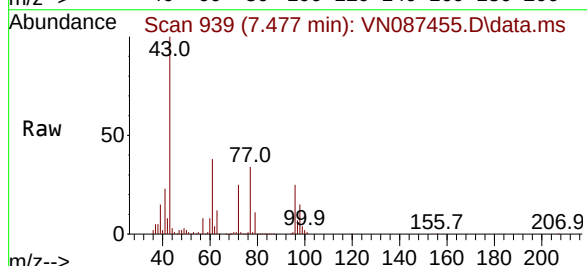
Tgt Ion: 96 Resp: 565755

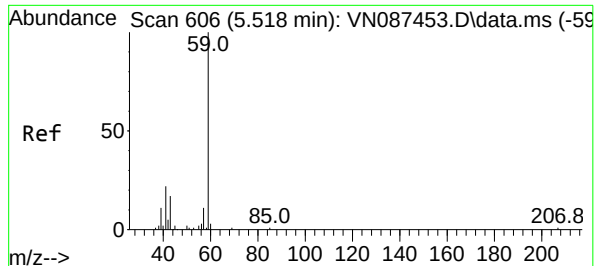
Ion Ratio Lower Upper

96 100

61 159.8 126.6 190.0

98 64.1 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 495.796 ug/l

RT: 5.530 min Scan# 606

Delta R.T. 0.012 min

Lab File: VN087455.D

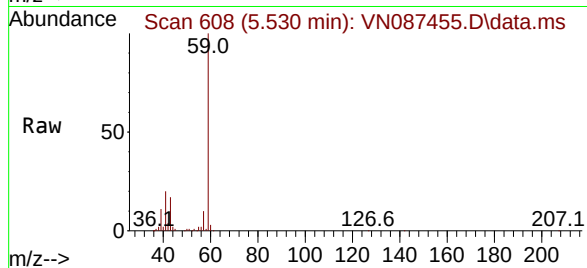
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100



Tgt Ion: 59 Resp: 65676

Ion Ratio Lower Upper

59 100

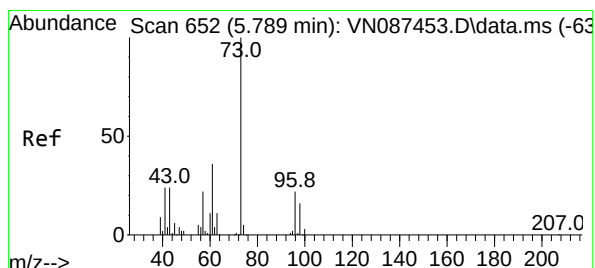
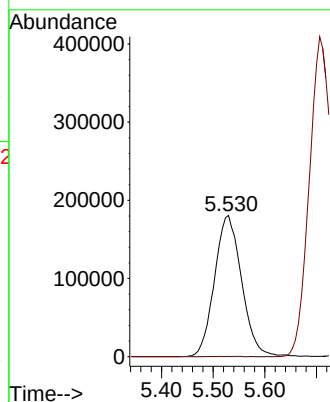
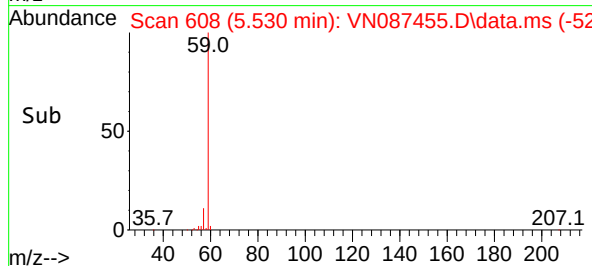
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 100.557 ug/l

RT: 5.788 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087455.D

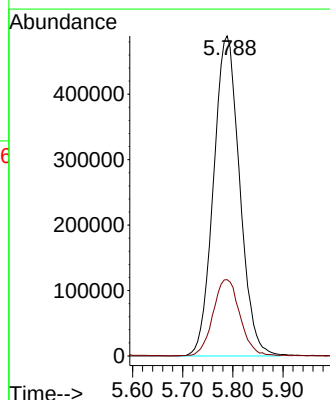
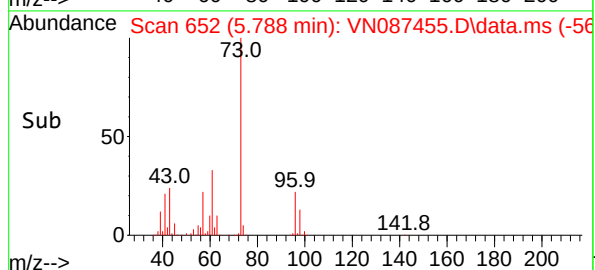
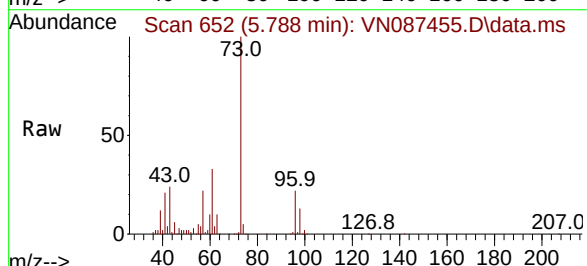
Acq: 05 Aug 2025 14:40

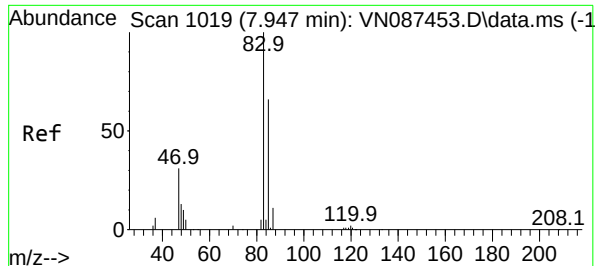
Tgt Ion: 73 Resp: 1772627

Ion Ratio Lower Upper

73 100

43 24.4 19.9 29.9





#25

Chloroform

Concen: 99.723 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 96653

Ion Ratio Lower Upper

83 100

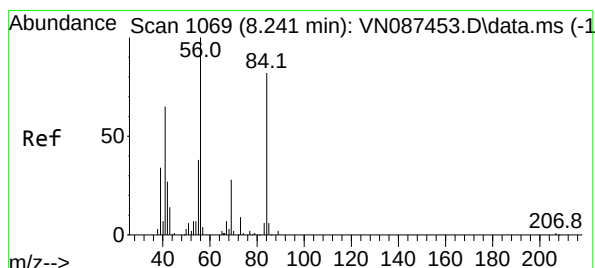
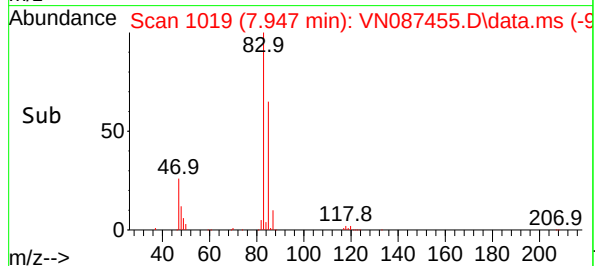
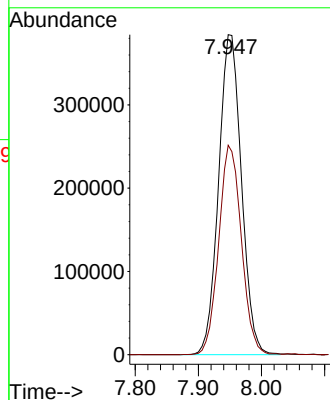
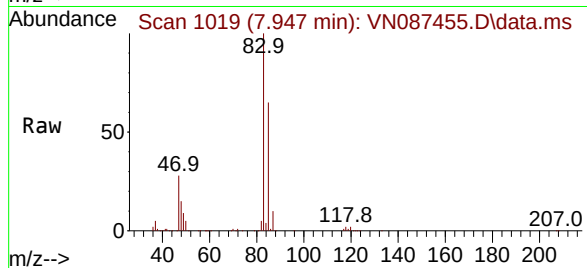
85 65.5 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 101.498 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

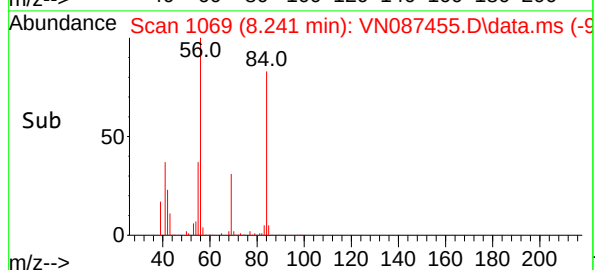
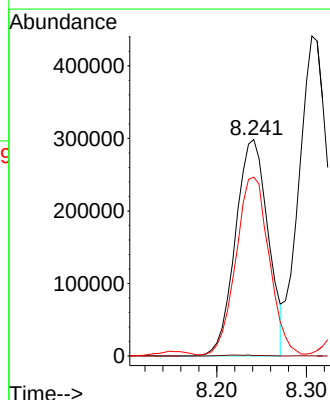
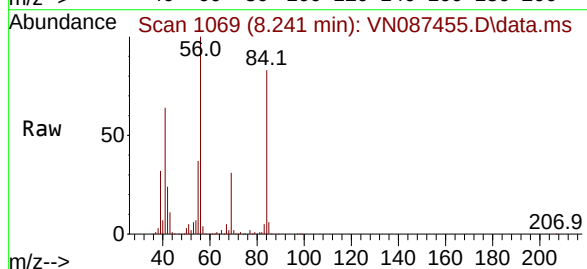
Tgt Ion: 56 Resp: 754564

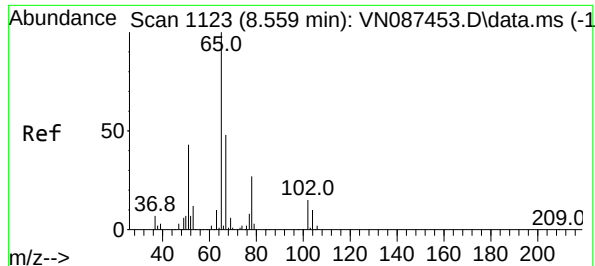
Ion Ratio Lower Upper

56 100

89 0.2 2.3 3.5#

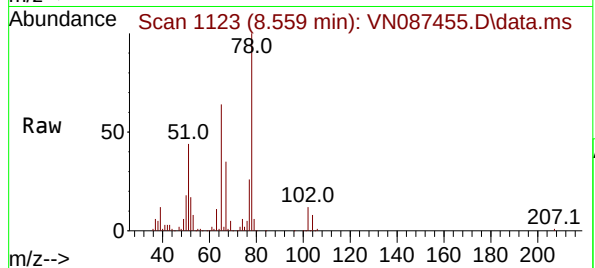
84 84.5 67.0 100.4





#27  
1,2-Dichloroethane-d4  
Concen: 29.319 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

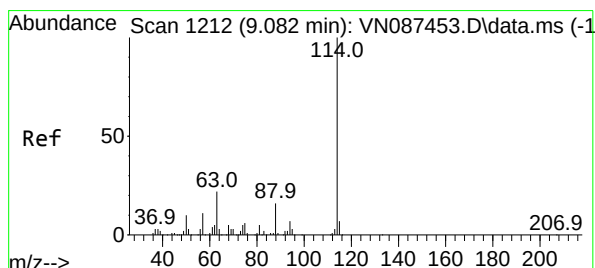
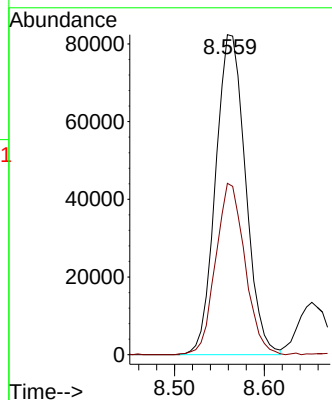
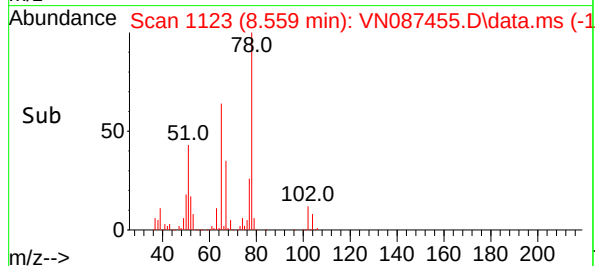
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion: 65 Resp: 19101  
Ion Ratio Lower Upper  
65 100  
67 52.3 40.8 61.2

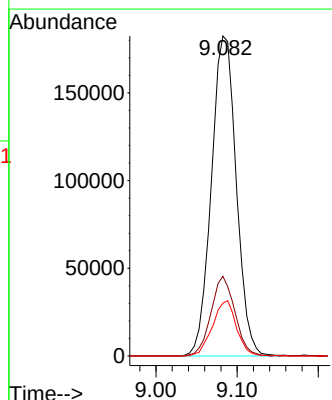
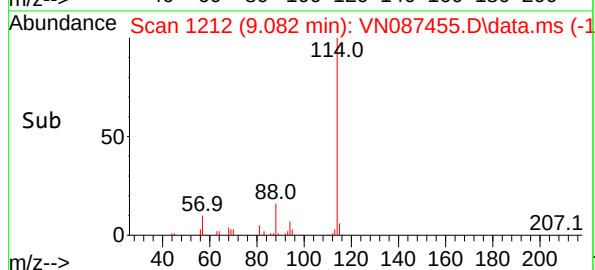
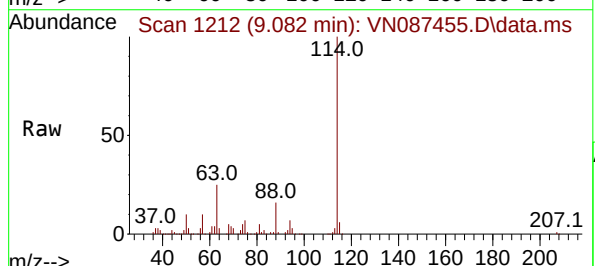
Manual Integrations  
APPROVED

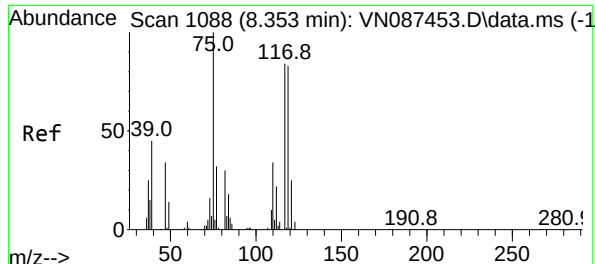
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:114 Resp: 389326  
Ion Ratio Lower Upper  
114 100  
63 23.8 18.9 28.3  
88 16.6 13.1 19.7





#29

1,1-Dichloropropene

Concen: 101.253 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 64295

Ion Ratio Lower Upper

75 100

110 32.4 0.0 65.8

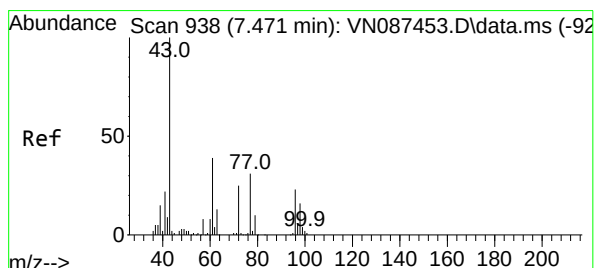
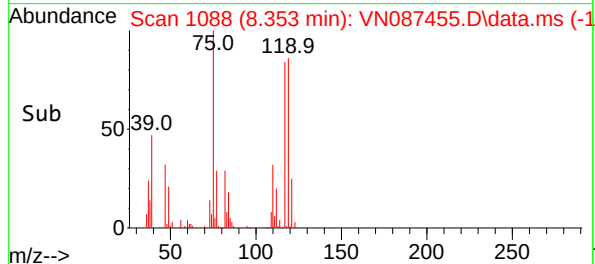
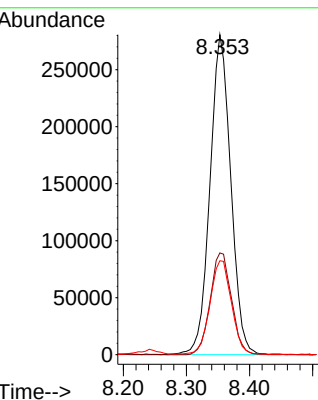
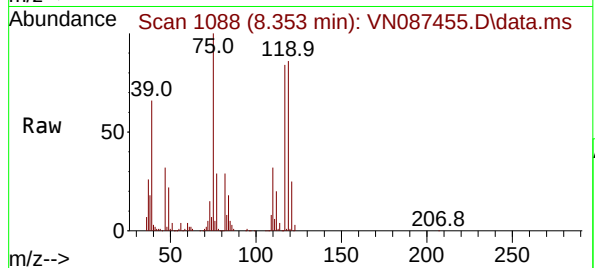
77 30.5 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 505.563 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

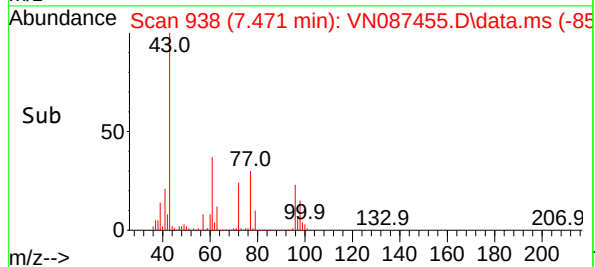
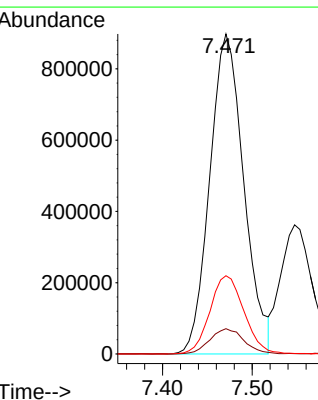
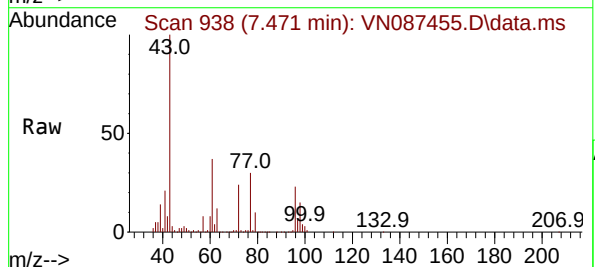
Tgt Ion: 43 Resp: 2366356

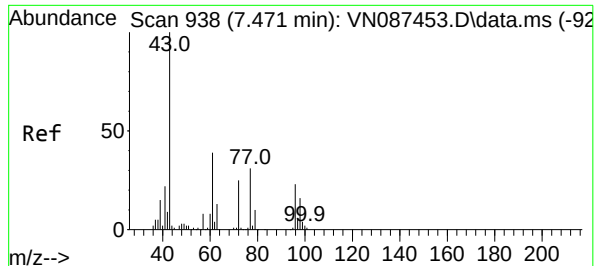
Ion Ratio Lower Upper

43 100

57 7.9 6.6 9.8

72 24.5 19.7 29.5





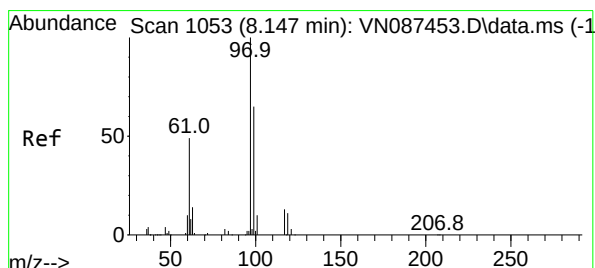
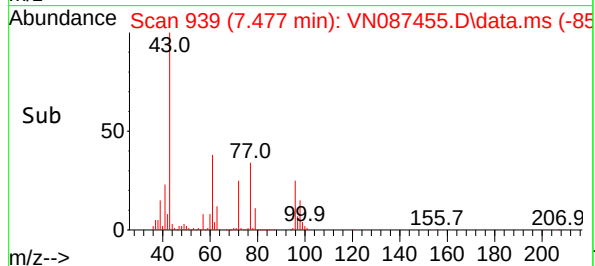
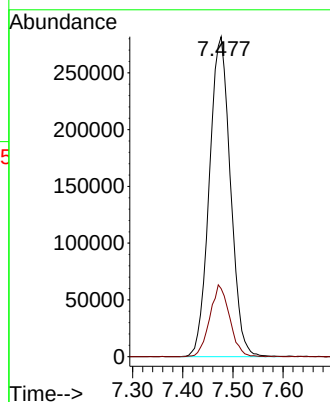
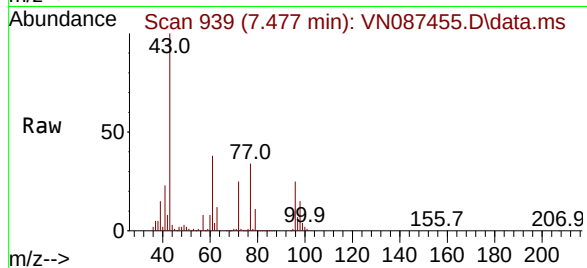
#31  
2,2-Dichloropropane  
Concen: 100.781 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 77 Resp: 82538  
Ion Ratio Lower Upper  
77 100  
97 21.0 16.7 25.1

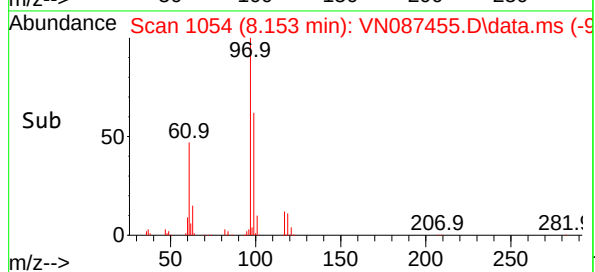
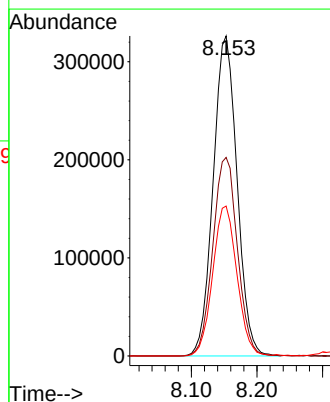
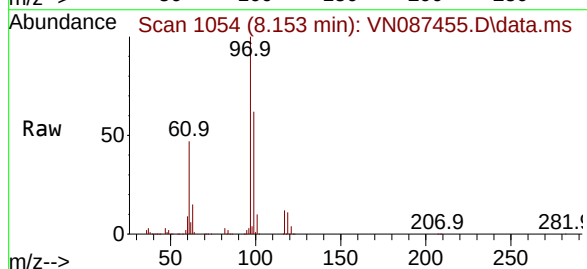
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

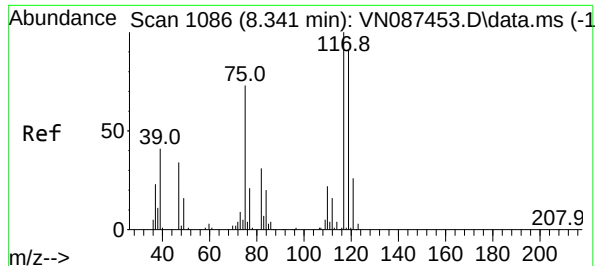


#32  
1,1,1-Trichloroethane  
Concen: 101.882 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 825110  
Ion Ratio Lower Upper  
97 100  
99 63.8 53.0 79.6  
61 47.6 40.6 61.0

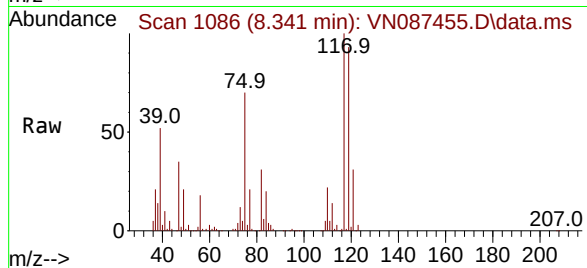






#33  
Carbon Tetrachloride  
Concen: 101.563 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

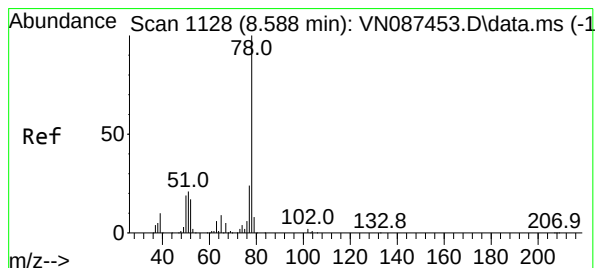
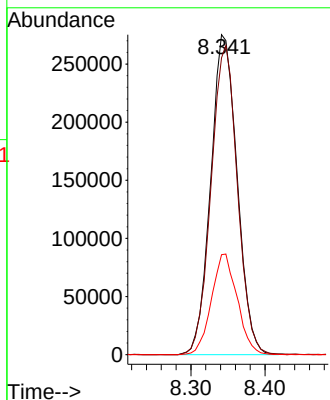
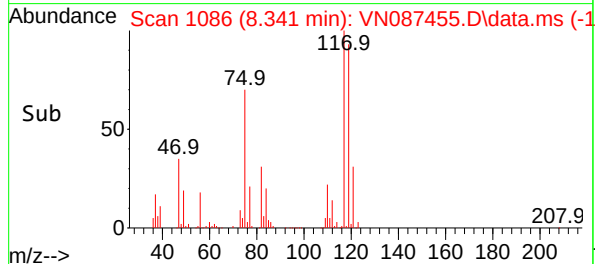
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 117 Resp: 683314  
Ion Ratio Lower Upper  
117 100  
119 92.8 73.4 110.0  
121 31.2 21.1 31.7

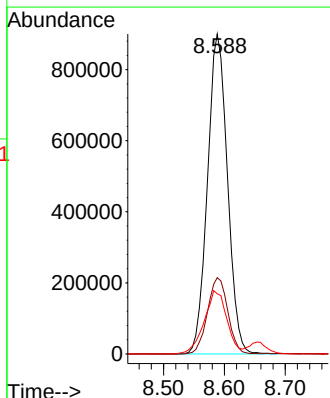
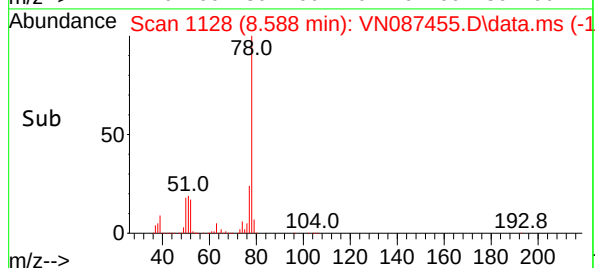
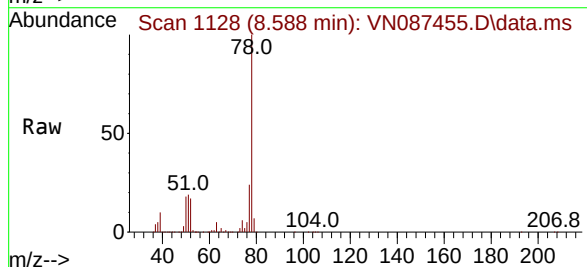
Manual Integrations  
APPROVED

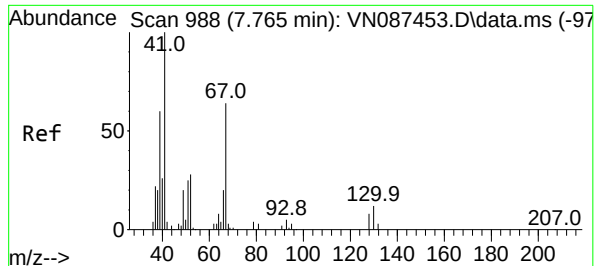
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#34  
Benzene  
Concen: 102.292 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 78 Resp: 2050407  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.2 28.8  
51 18.7 16.9 25.3





#35

Methacrylonitrile

Concen: 98.134 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 495672

Ion Ratio Lower Upper

41 100

39 56.4 30.1 90.5

67 62.5 32.0 96.2

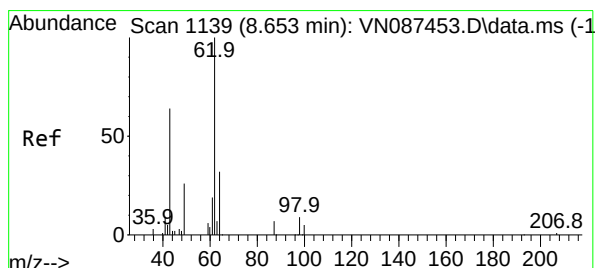
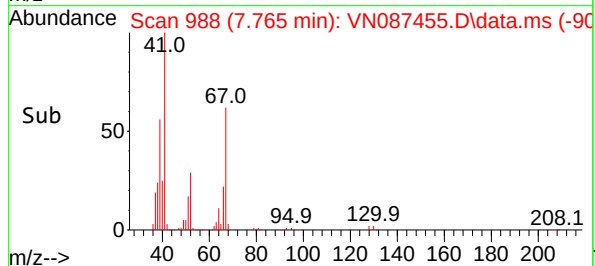
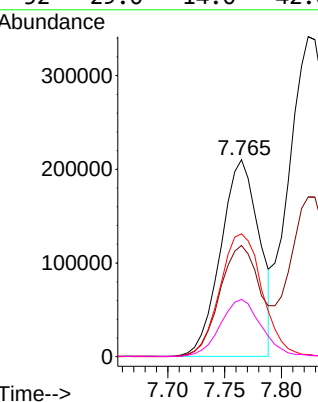
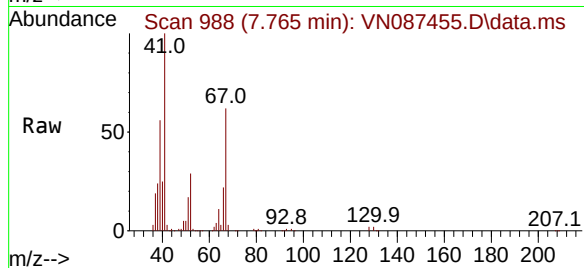
52 29.0 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 100.306 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087455.D

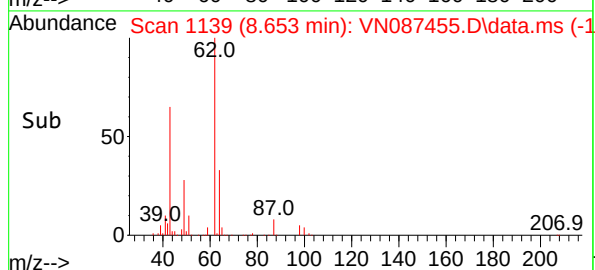
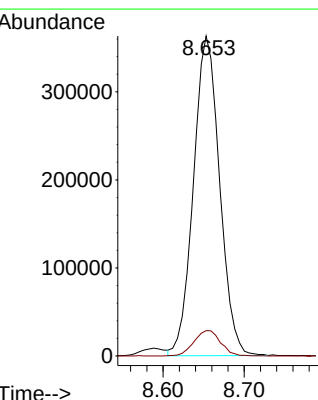
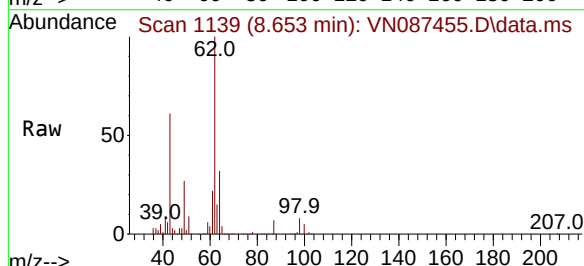
Acq: 05 Aug 2025 14:40

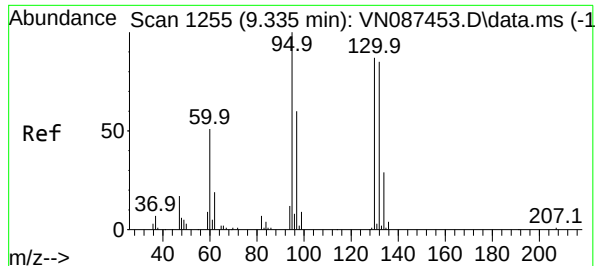
Tgt Ion: 62 Resp: 812745

Ion Ratio Lower Upper

62 100

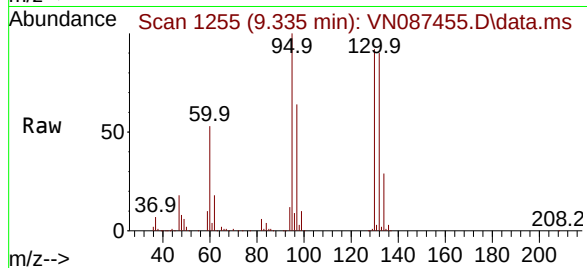
98 8.1 6.6 9.8





#37  
Trichloroethene  
Concen: 101.212 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

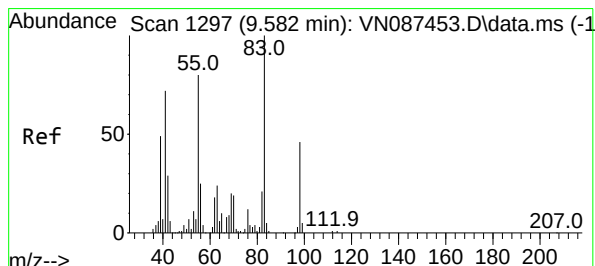
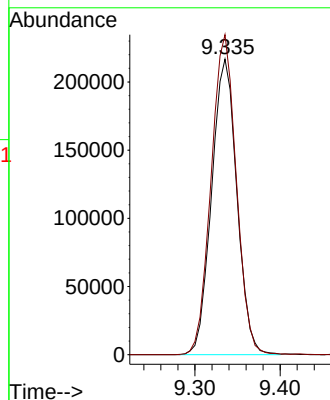
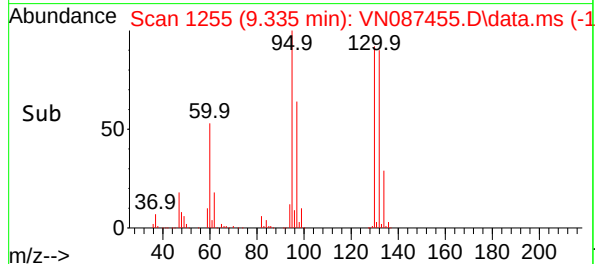
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:130 Resp: 446892  
Ion Ratio Lower Upper  
130 100  
95 108.1 91.4 137.2

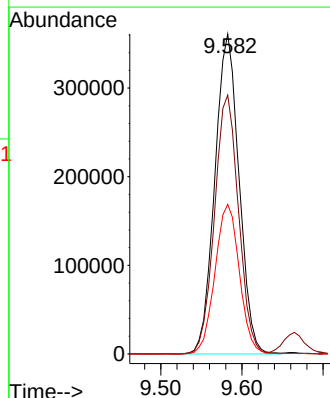
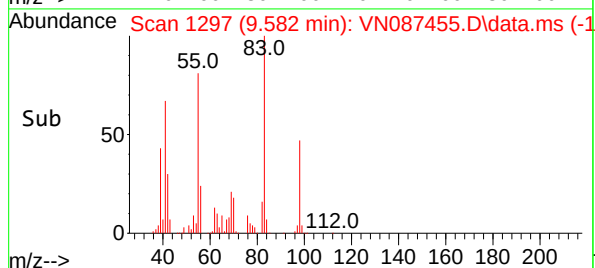
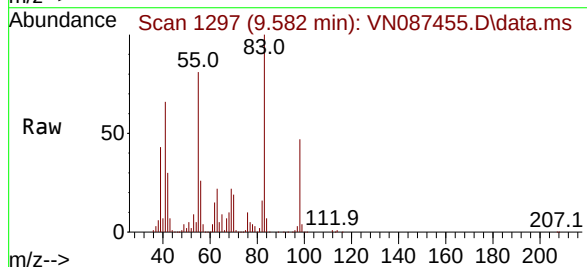
Manual Integrations  
APPROVED

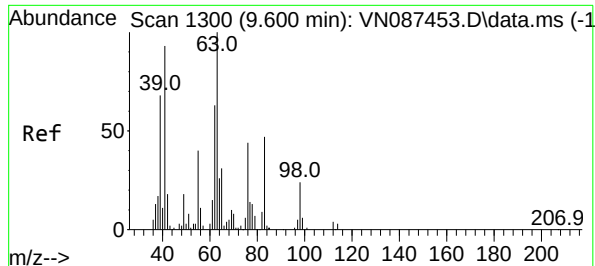
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#38  
Methylcyclohexane  
Concen: 101.482 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 83 Resp: 747573  
Ion Ratio Lower Upper  
83 100  
55 80.4 41.2 123.6  
98 47.0 23.3 69.9





#39

1,2-Dichloropropane

Concen: 100.868 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 51839

Ion Ratio Lower Upper

63 100

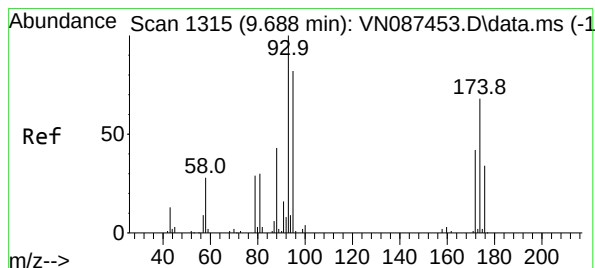
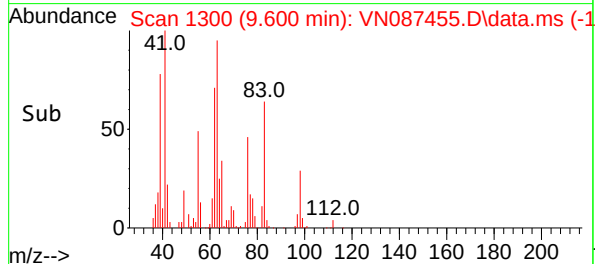
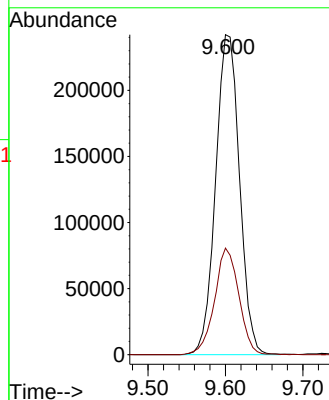
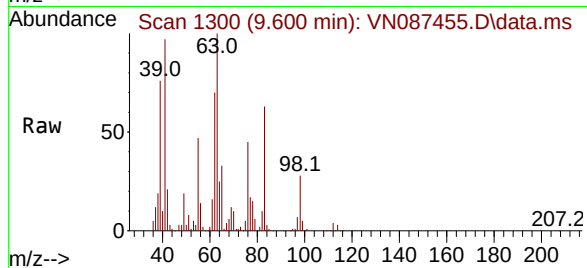
65 33.3 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 100.231 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

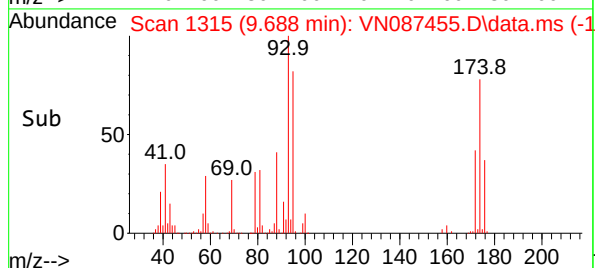
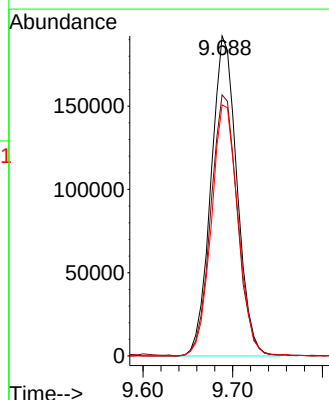
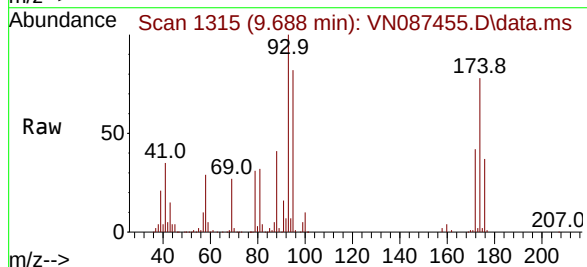
Tgt Ion: 93 Resp: 386489

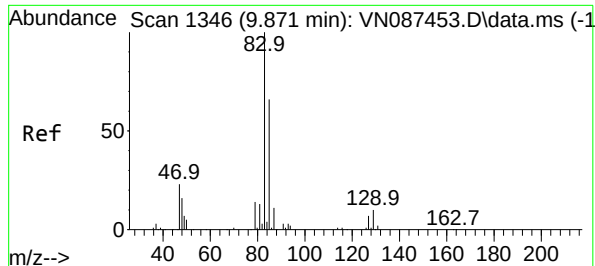
Ion Ratio Lower Upper

93 100

95 83.5 0.0 161.6

174 80.4 0.0 151.4





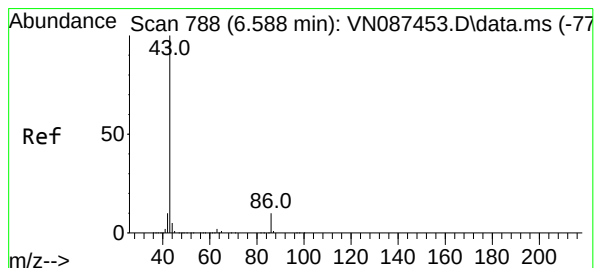
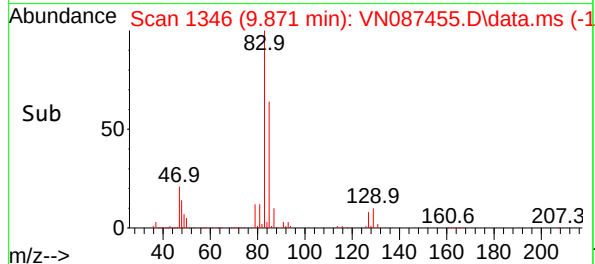
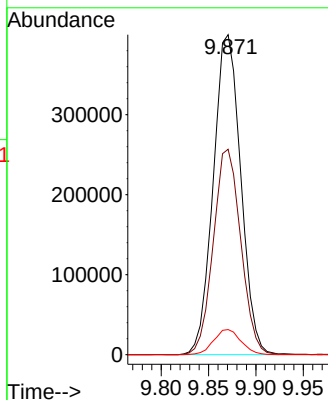
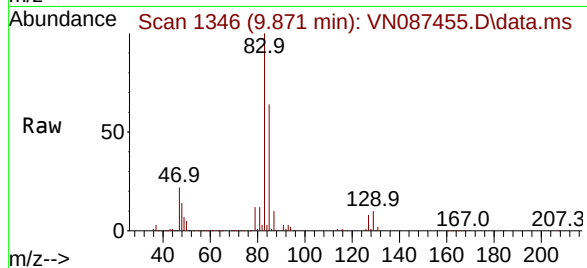
#41  
Bromodichloromethane  
Concen: 100.928 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tgt Ion: 83 Resp: 808690  
Ion Ratio Lower Upper  
83 100  
85 64.2 52.9 79.3  
127 7.9 5.8 8.6

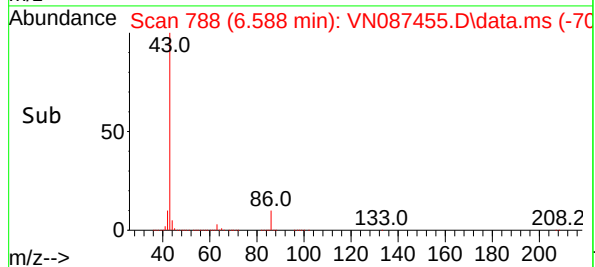
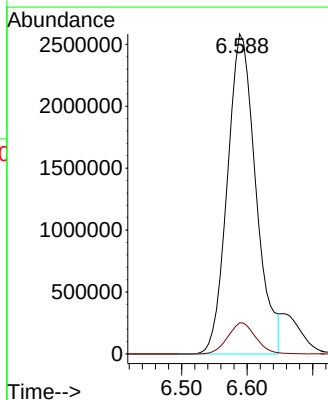
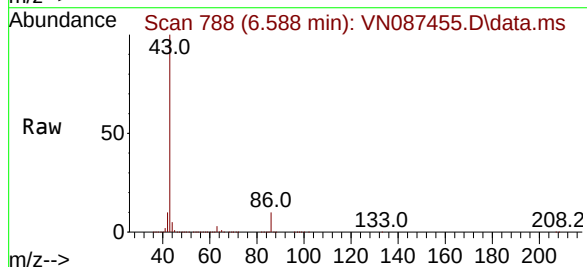
Manual Integrations  
APPROVED

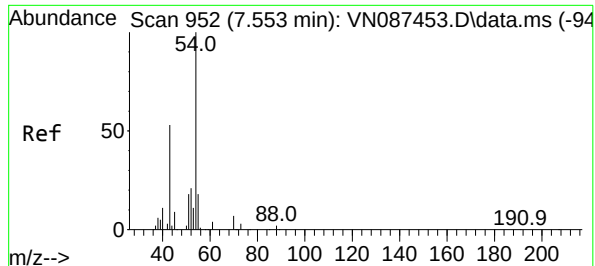
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 507.335 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 7820160  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.3 10.9





#43

Ethyl Acetate

Concen: 101.868 ug/l

RT: 7.547 min Scan# 90

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 907628

Ion Ratio Lower Upper

43 100

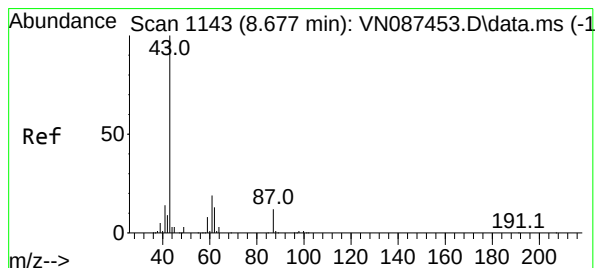
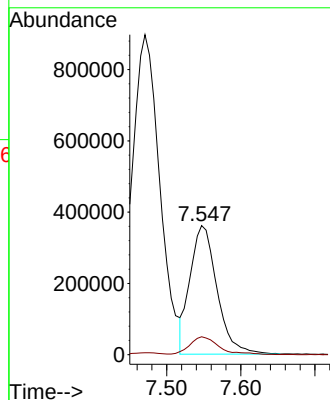
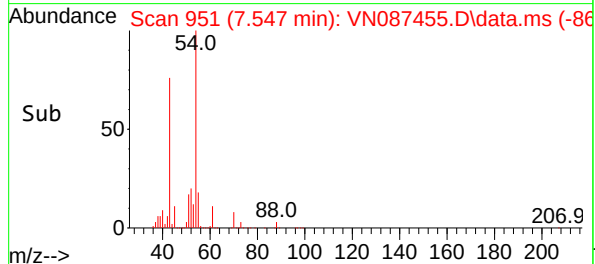
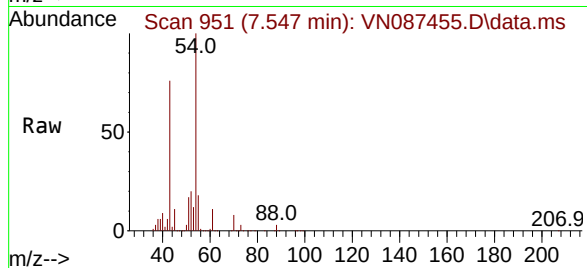
45 15.2 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 101.675 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087455.D

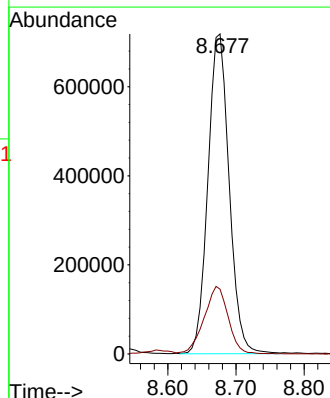
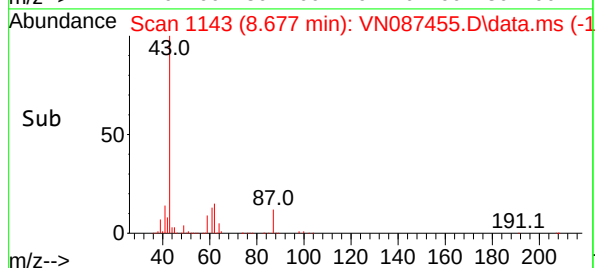
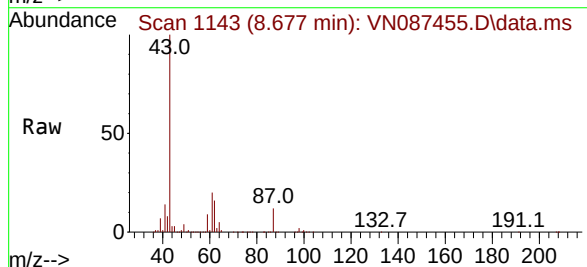
Acq: 05 Aug 2025 14:40

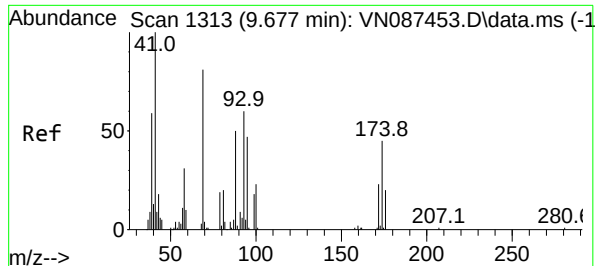
Tgt Ion: 43 Resp: 1558470

Ion Ratio Lower Upper

43 100

61 24.0 18.6 28.0





#45

1,4-Dioxane

Concen: 1985.385 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 194000

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

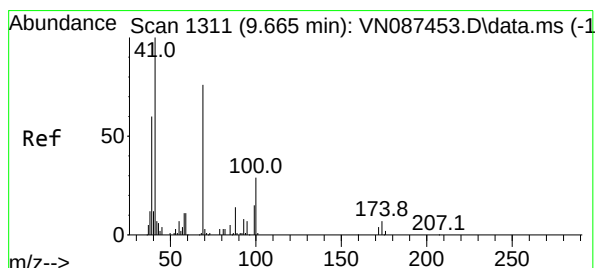
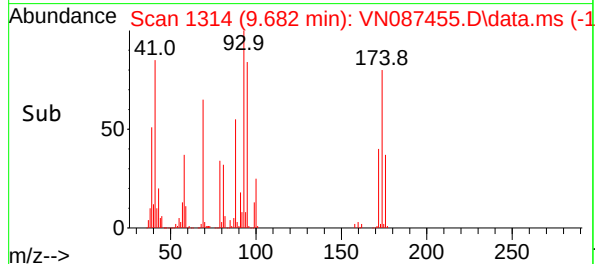
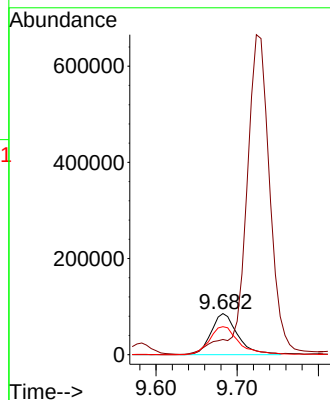
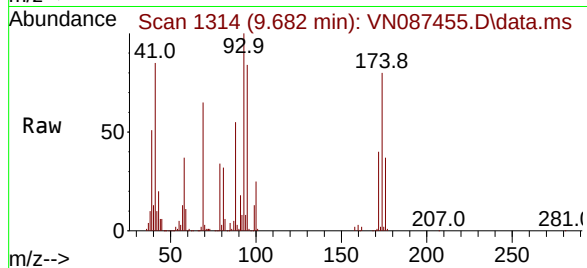
58 75.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 101.273 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

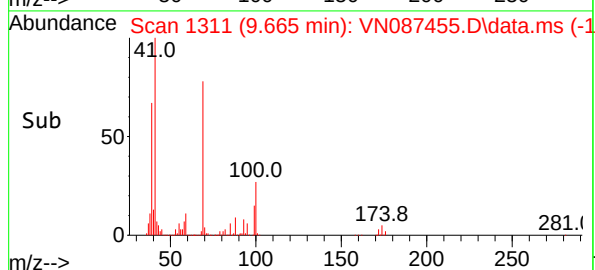
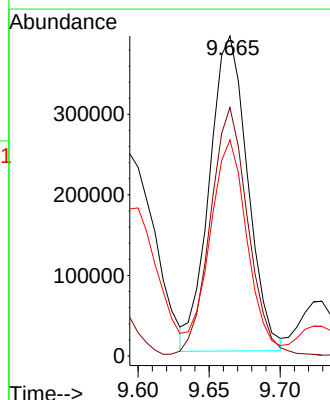
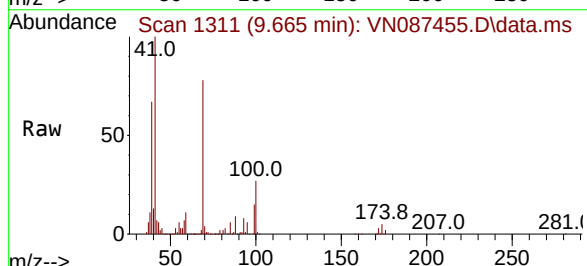
Tgt Ion: 41 Resp: 732745

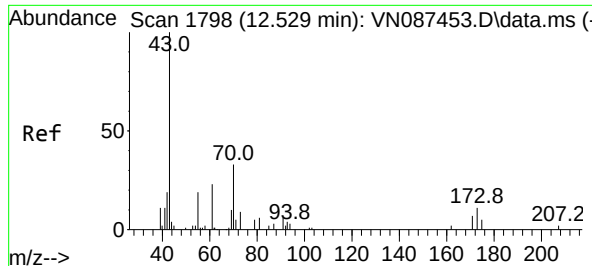
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 68.0 30.7 92.1





#47

n-amy1 Acetate

Concen: 128.748 ug/l

RT: 12.488 min Scan# 1798

Delta R.T. -0.041 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 99229

Ion Ratio Lower Upper

43 100

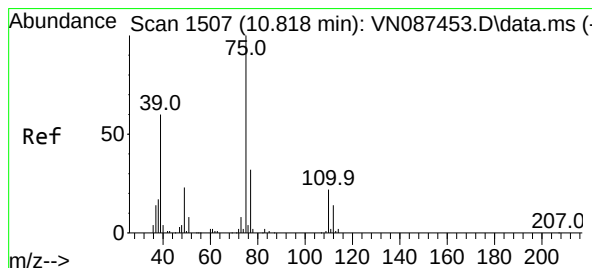
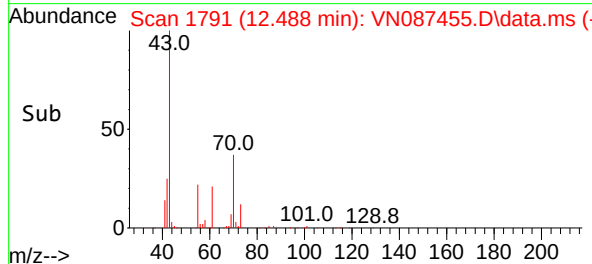
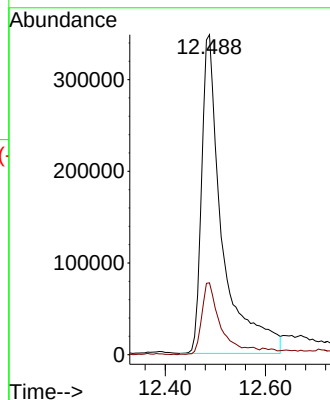
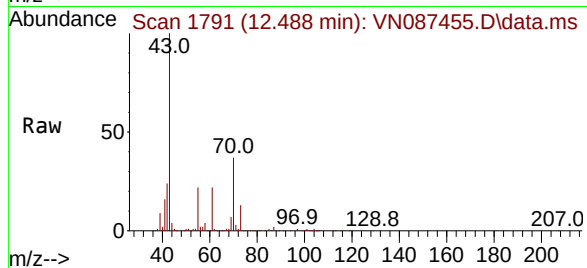
55 19.3 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 104.188 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087455.D

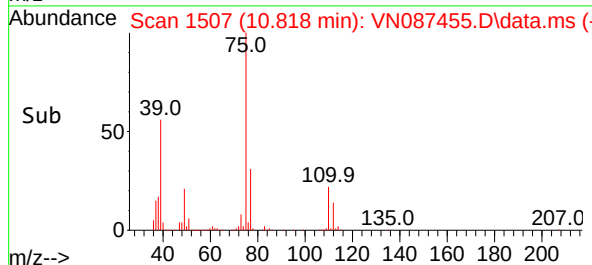
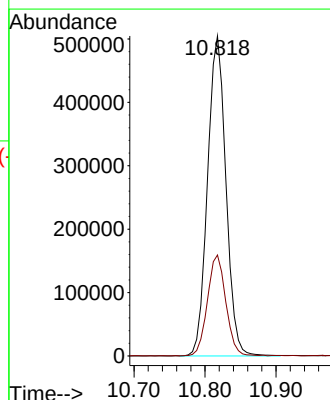
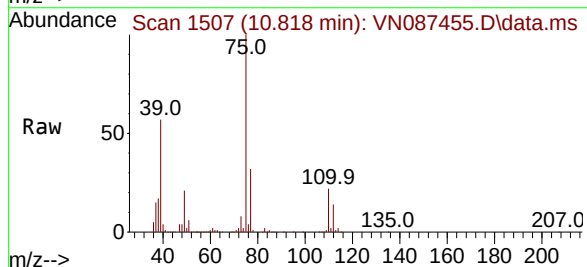
Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 908224

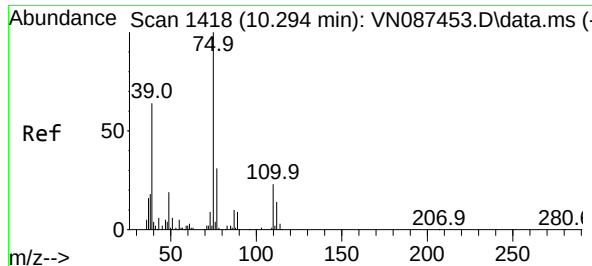
Ion Ratio Lower Upper

75 100

77 31.5 25.3 37.9







#49

cis-1,3-Dichloropropene

Concen: 102.958 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 903230

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

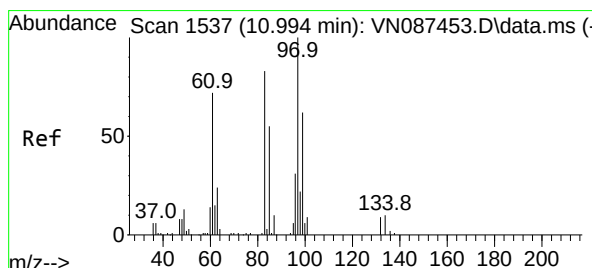
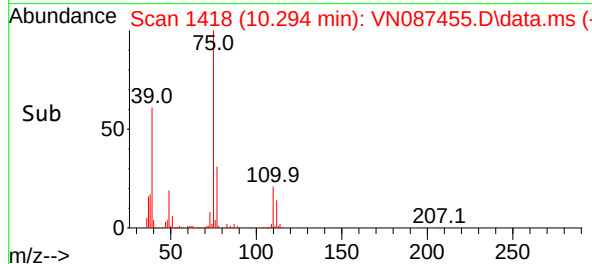
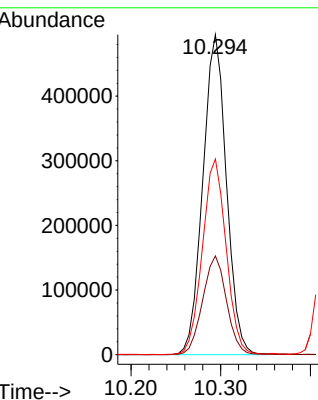
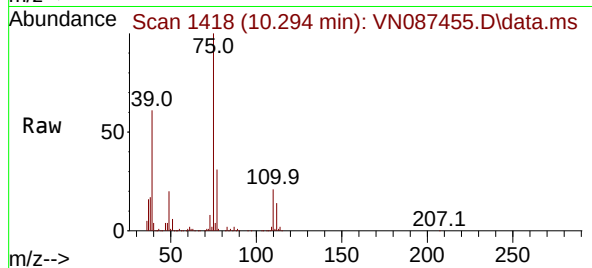
39 61.1 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 102.720 ug/l

RT: 11.000 min Scan# 1538

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 500440

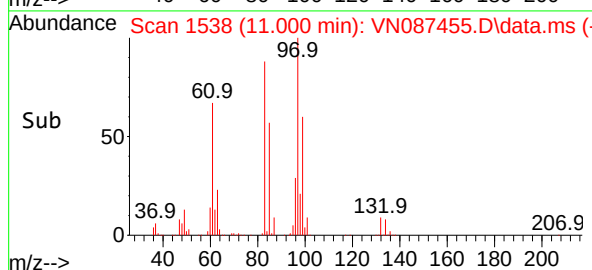
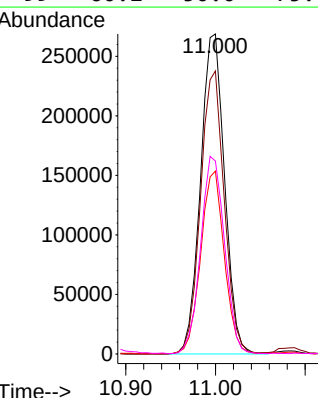
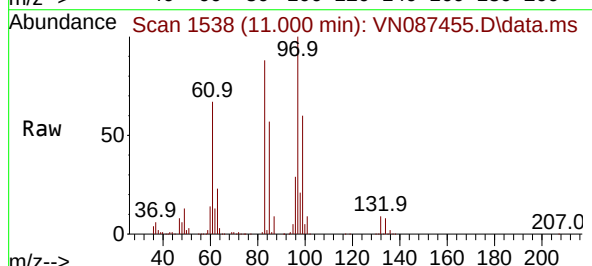
Ion Ratio Lower Upper

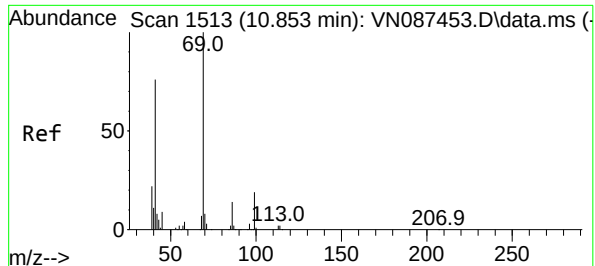
97 100

83 88.4 66.2 99.2

85 57.1 43.9 65.9

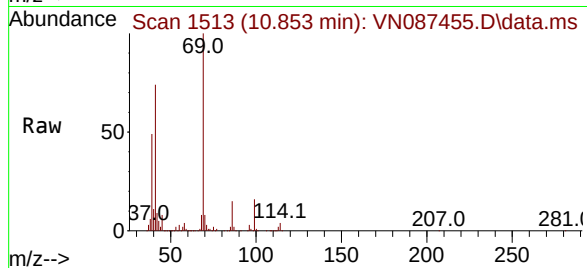
99 60.2 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 108.040 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

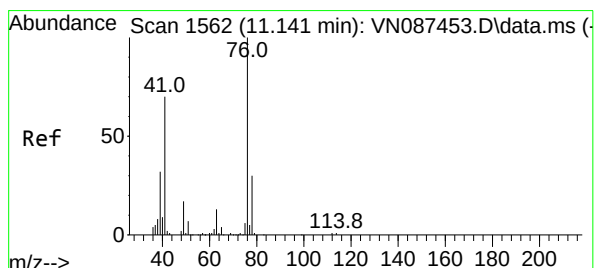
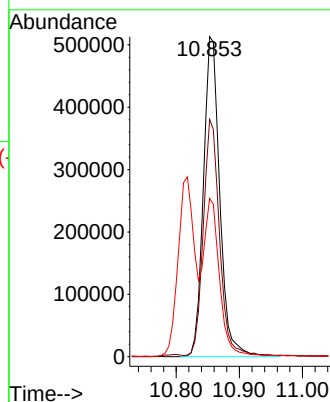
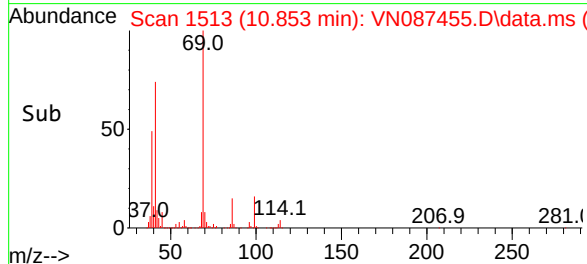
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 69 Resp: 926992  
Ion Ratio Lower Upper  
69 100  
41 73.7 38.0 114.1  
39 49.1 23.2 69.5

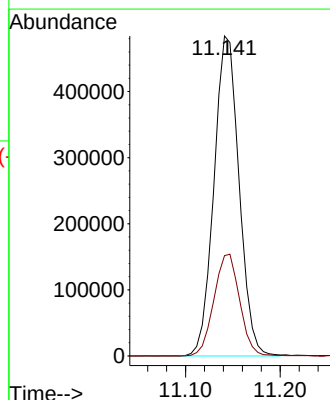
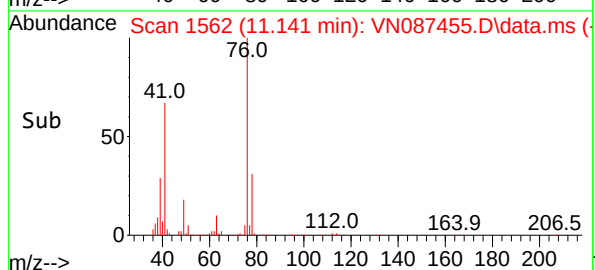
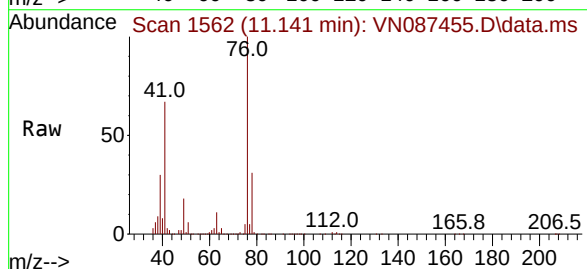
Manual Integrations  
APPROVED

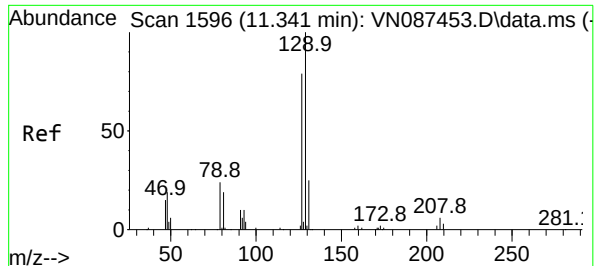
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#52  
1,3-Dichloropropane  
Concen: 101.657 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

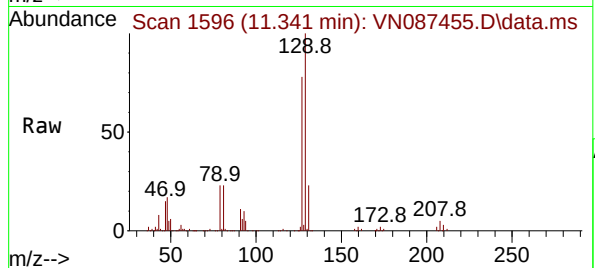
Tgt Ion: 76 Resp: 892266  
Ion Ratio Lower Upper  
76 100  
78 32.6 0.0 63.0





#53  
Dibromochloromethane  
Concen: 104.918 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

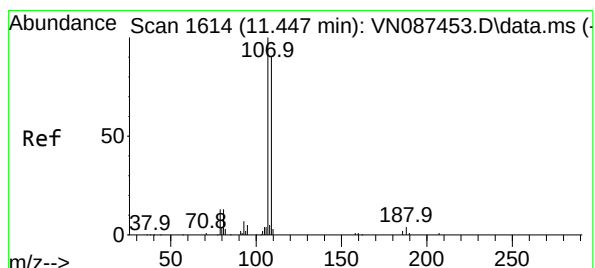
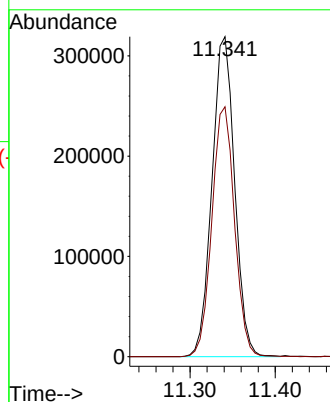
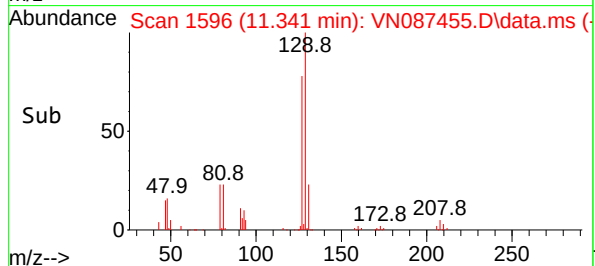
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



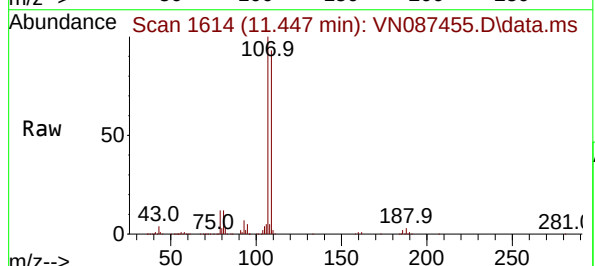
Tgt Ion:129 Resp: 590310  
Ion Ratio Lower Upper  
129 100  
127 78.0 39.1 117.3

Manual Integrations  
APPROVED

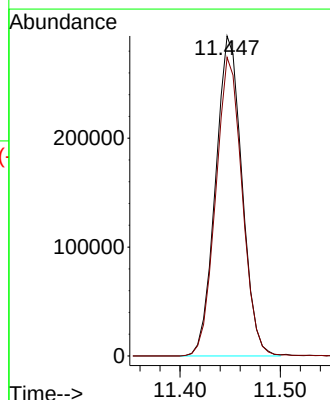
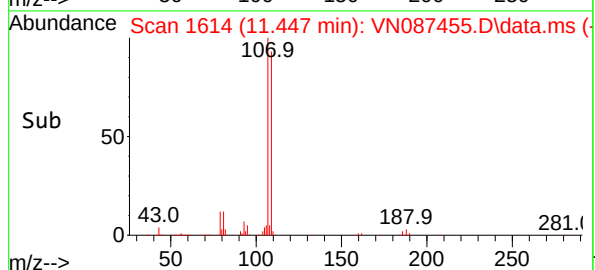
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

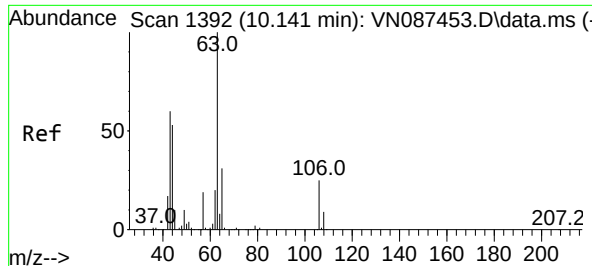


#54  
1,2-Dibromoethane  
Concen: 103.987 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40



Tgt Ion:107 Resp: 537806  
Ion Ratio Lower Upper  
107 100  
109 93.3 74.2 111.4





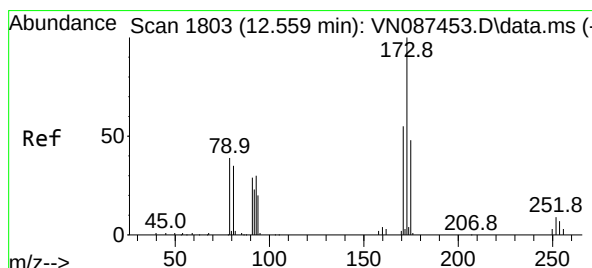
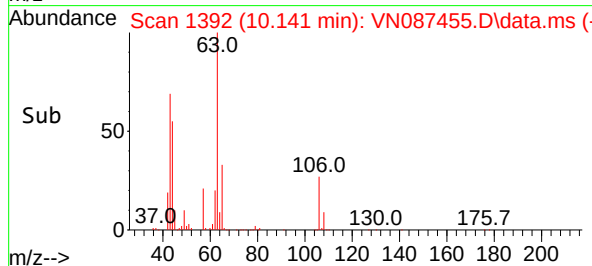
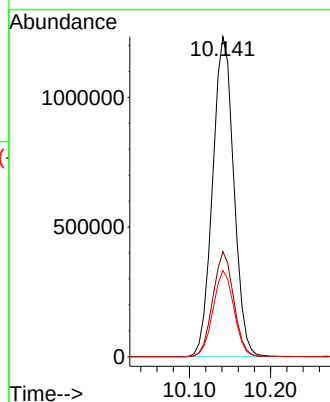
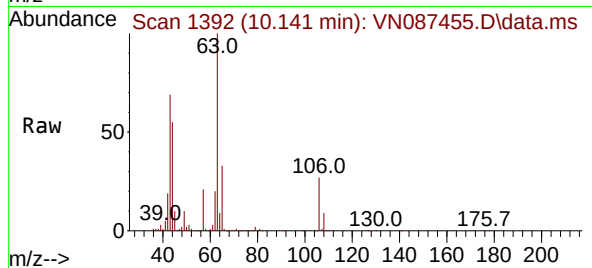
#55  
2-Chloroethyl vinyl ether  
Concen: 495.251 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 63 Resp: 2236990  
Ion Ratio Lower Upper  
63 100  
65 32.2 25.7 38.5  
106 26.5 20.7 31.1

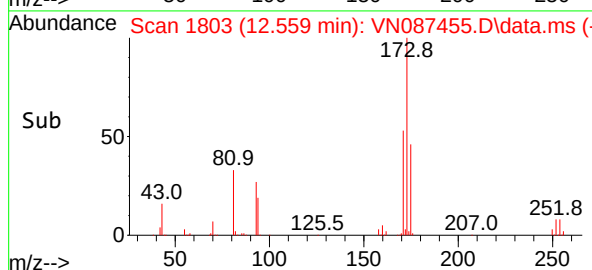
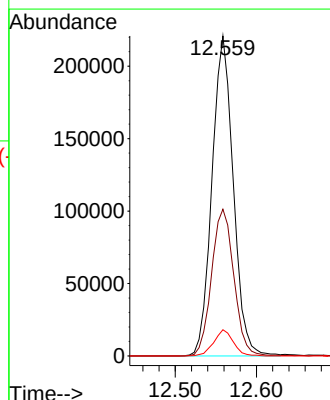
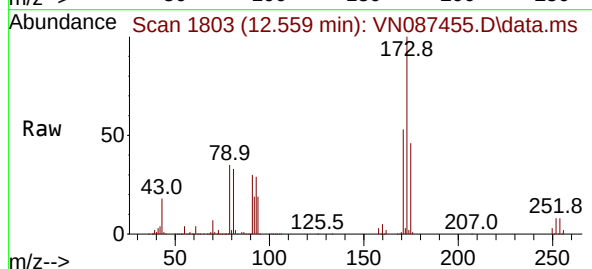
Manual Integrations  
APPROVED

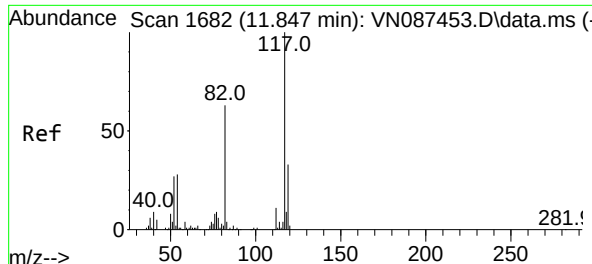
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#56  
Bromoform  
Concen: 108.214 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

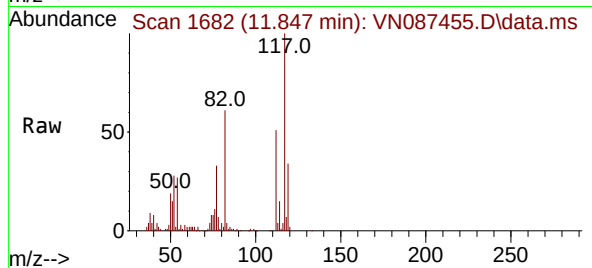
Tgt Ion:173 Resp: 402717  
Ion Ratio Lower Upper  
173 100  
175 47.8 38.8 58.2  
254 7.6 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1182  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

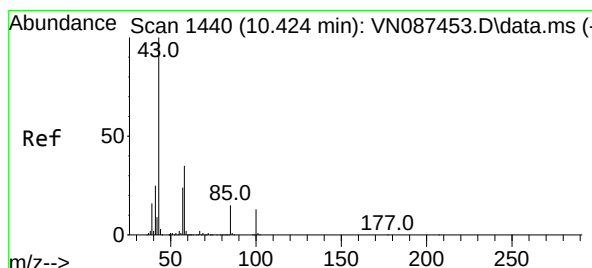
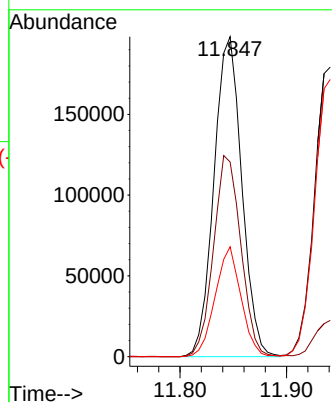
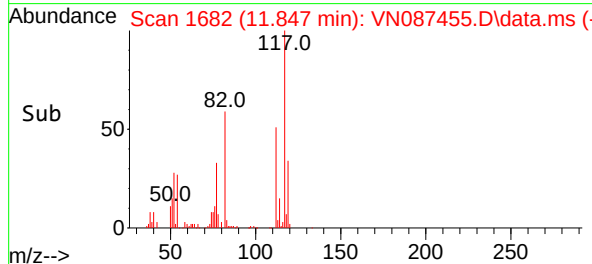
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion: 117 Resp: 359650  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.2 73.8  
119 31.8 25.7 38.5

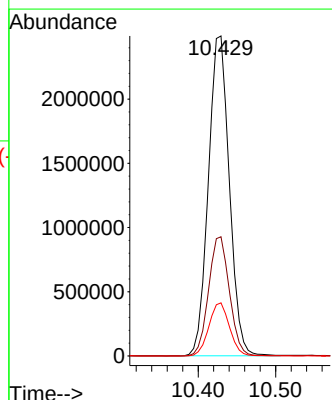
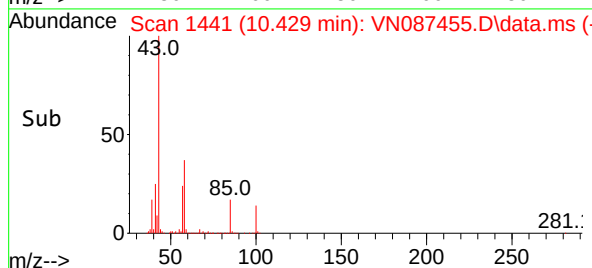
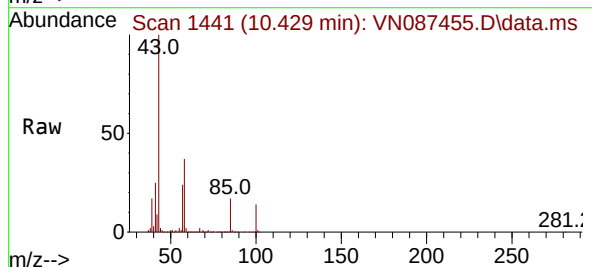
Manual Integrations  
APPROVED

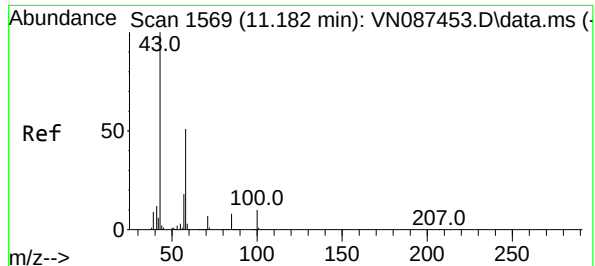
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 505.641 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

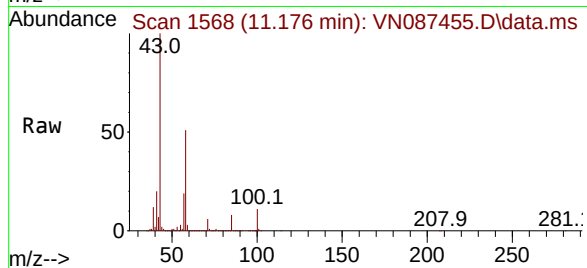
Tgt Ion: 43 Resp: 4678202  
Ion Ratio Lower Upper  
43 100  
58 37.1 29.0 43.6  
85 16.4 12.7 19.1





#59  
2-Hexanone  
Concen: 535.301 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

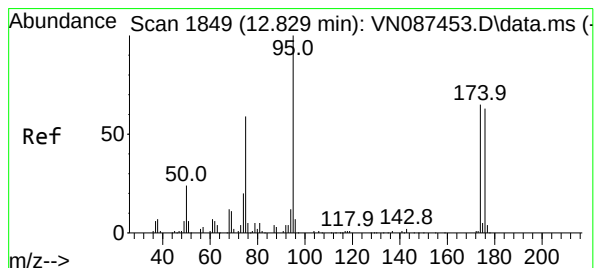
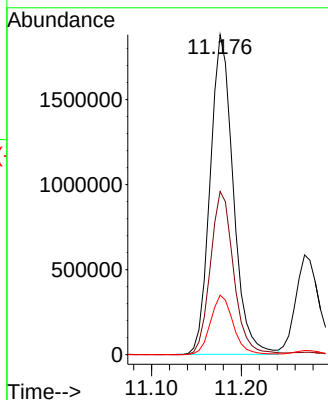
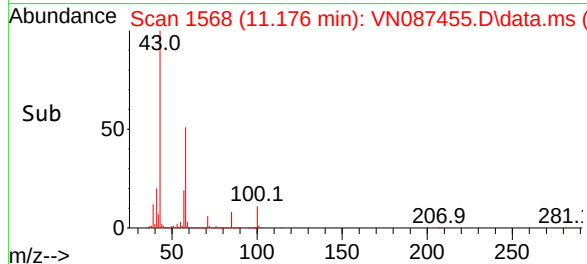
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 43 Resp: 3365074  
Ion Ratio Lower Upper  
43 100  
58 51.4 41.0 61.6  
57 18.2 14.6 21.8

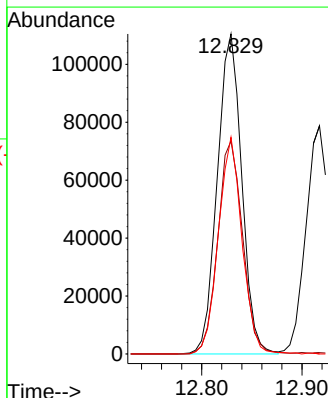
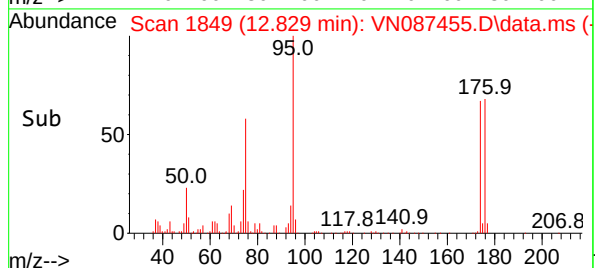
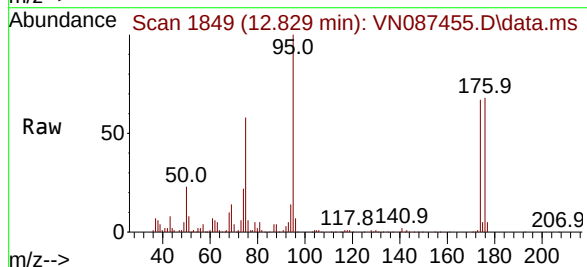
Manual Integrations  
APPROVED

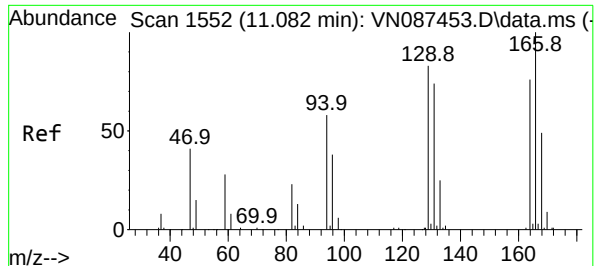
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#60  
4-Bromofluorobenzene  
Concen: 30.190 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

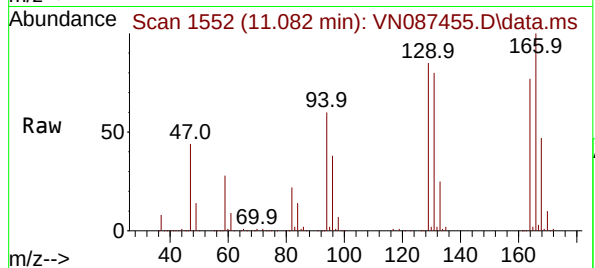
Tgt Ion: 95 Resp: 186862  
Ion Ratio Lower Upper  
95 100  
174 67.7 52.3 78.5  
176 65.7 49.8 74.8





#61  
Tetrachloroethene  
Concen: 99.301 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

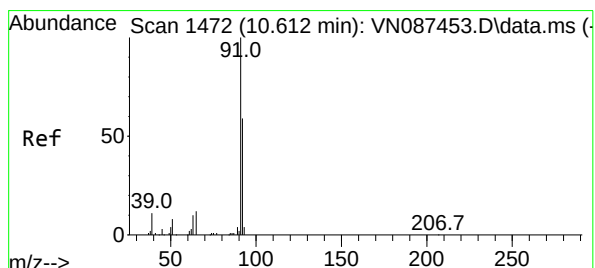
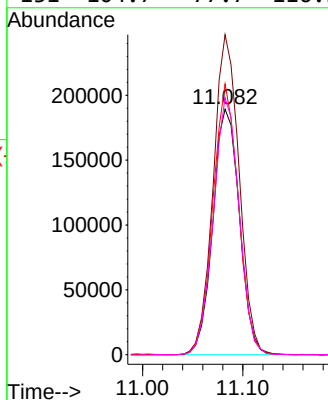
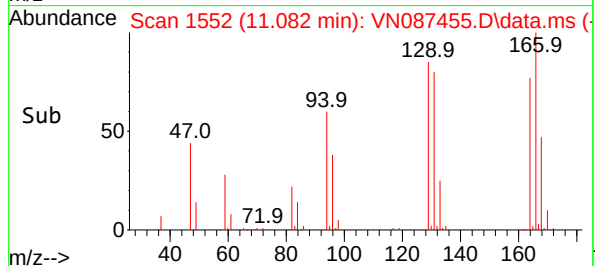
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:164 Resp: 347945  
Ion Ratio Lower Upper  
164 100  
166 130.3 105.4 158.0  
129 110.2 87.7 131.5  
131 104.7 77.7 116.5

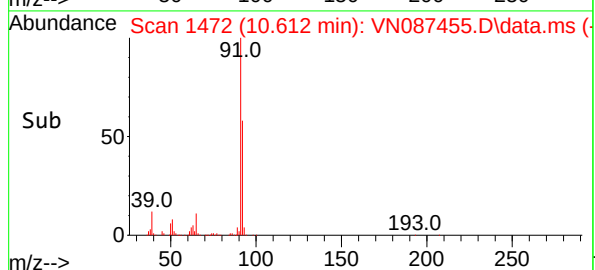
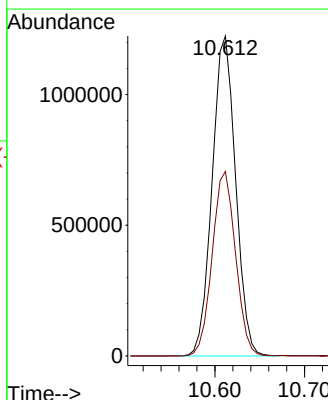
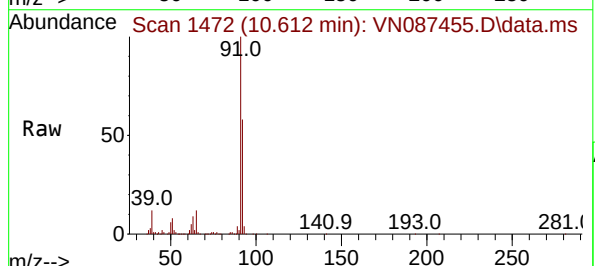
Manual Integrations  
APPROVED

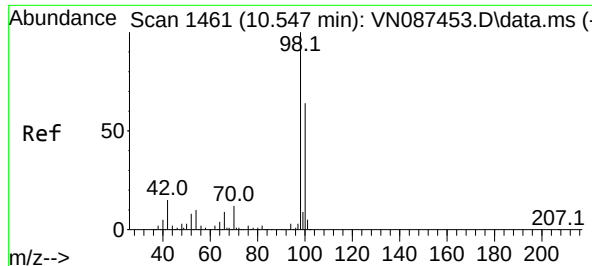
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#62  
Toluene  
Concen: 100.129 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

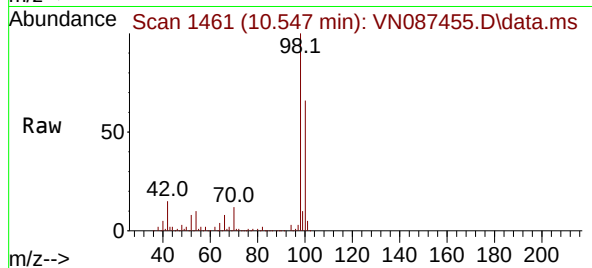
Tgt Ion: 91 Resp: 2222660  
Ion Ratio Lower Upper  
91 100  
92 57.3 45.8 68.6





#63  
Toluene-d8  
Concen: 30.114 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

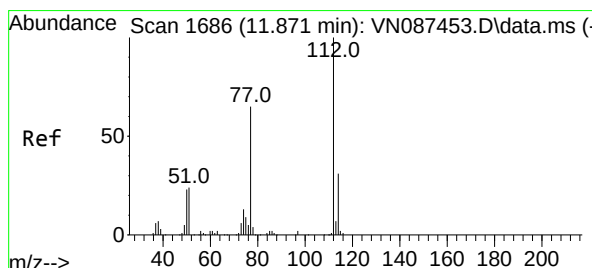
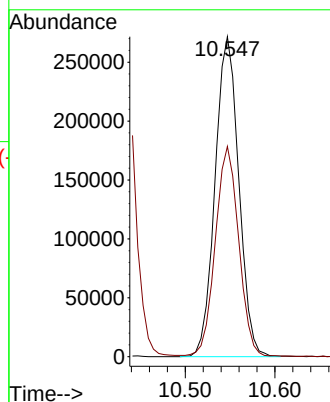
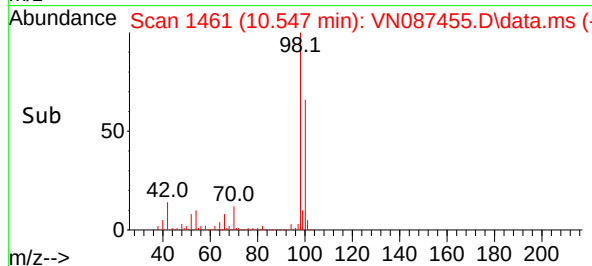
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 98 Resp: 498338  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.5 75.7

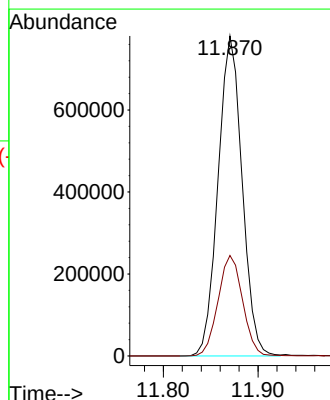
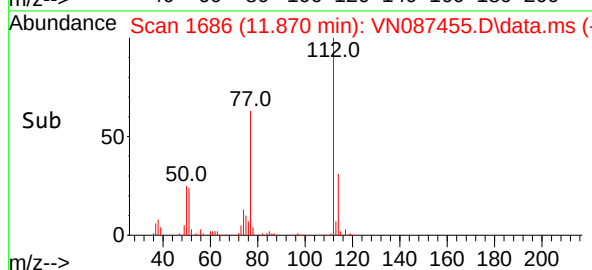
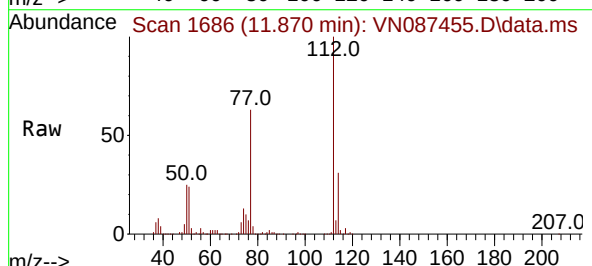
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

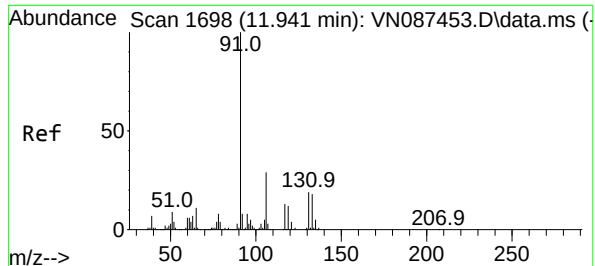


#64  
Chlorobenzene  
Concen: 100.975 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:112 Resp: 1377291  
Ion Ratio Lower Upper  
112 100  
114 31.4 24.7 37.1

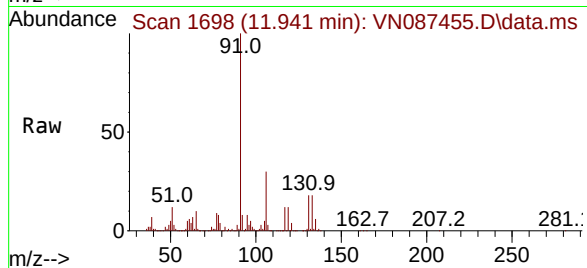






#65  
1,1,1,2-Tetrachloroethane  
Concen: 101.362 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

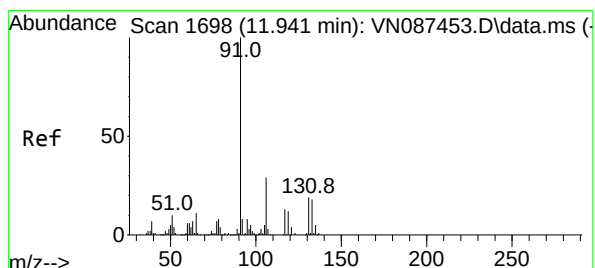
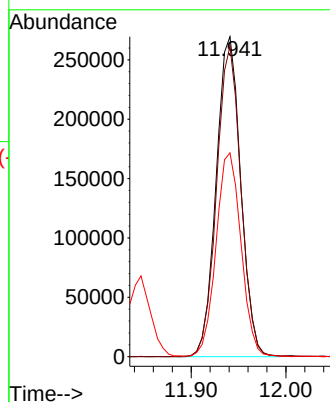
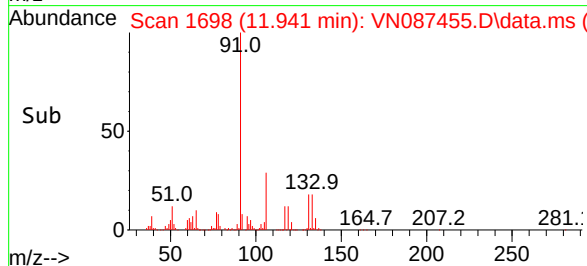
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion:131 Resp: 486095  
Ion Ratio Lower Upper  
131 100  
133 95.9 0.0 189.8  
119 64.8 0.0 133.2

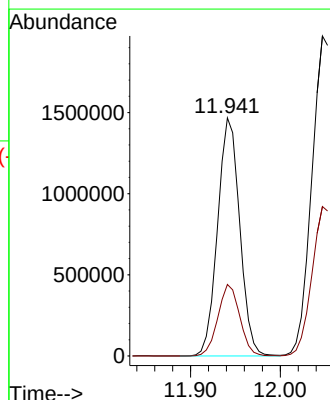
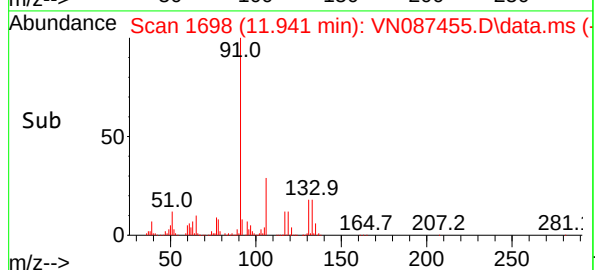
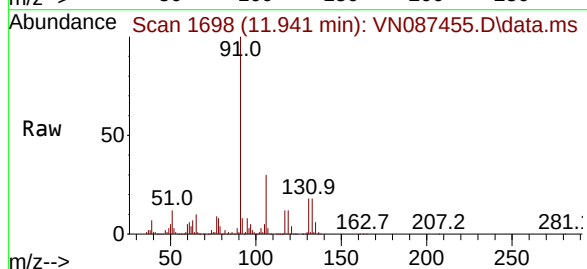
Manual Integrations  
APPROVED

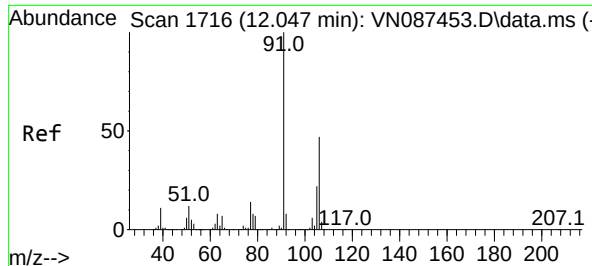
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#66  
Ethyl Benzene  
Concen: 101.451 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2510073  
Ion Ratio Lower Upper  
91 100  
106 30.0 22.9 34.3





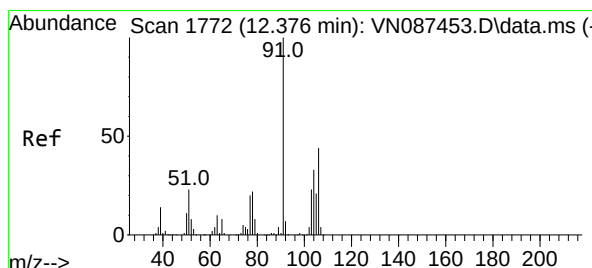
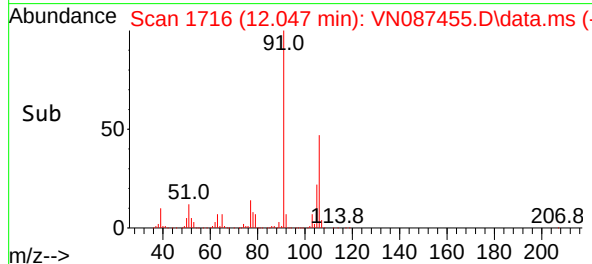
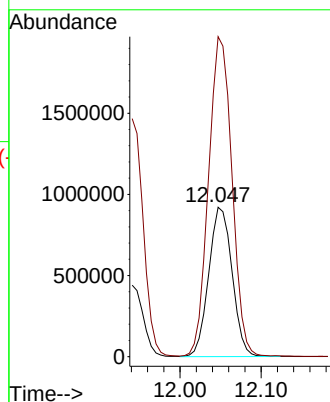
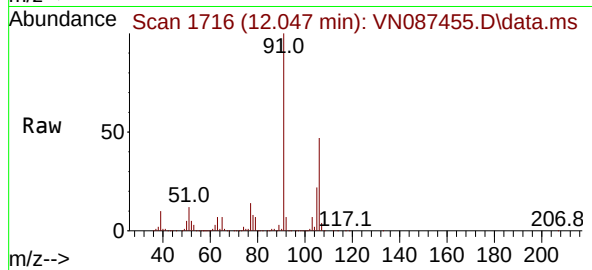
#67  
m/p-Xylenes  
Concen: 202.817 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:106 Resp: 1841924  
Ion Ratio Lower Upper  
106 100  
91 215.5 174.2 261.2

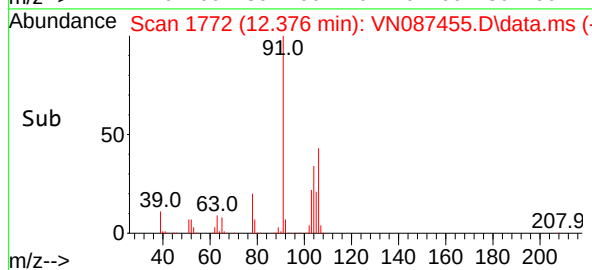
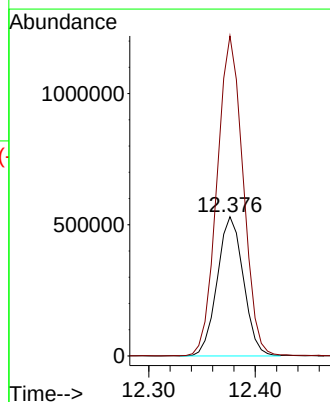
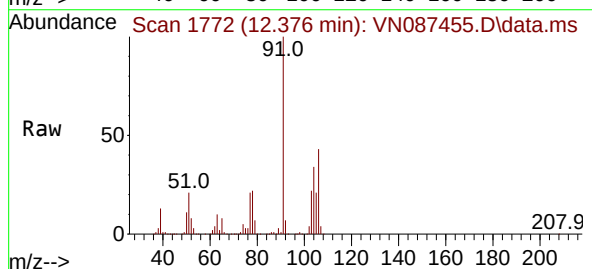
Manual Integrations  
APPROVED

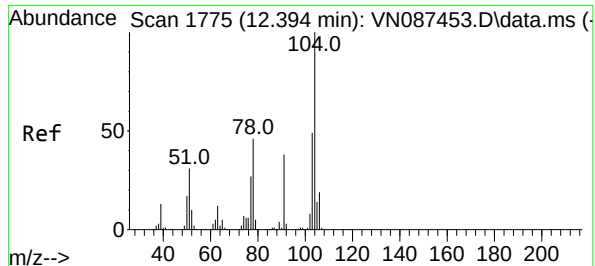
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#68  
o-Xylene  
Concen: 101.440 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

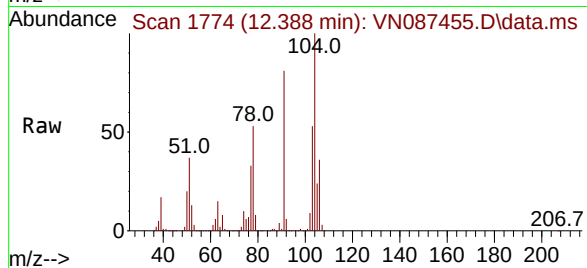
Tgt Ion:106 Resp: 906317  
Ion Ratio Lower Upper  
106 100  
91 228.8 114.5 343.5





#69  
Styrene  
Concen: 103.928 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

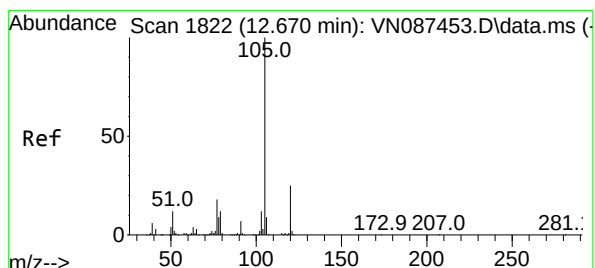
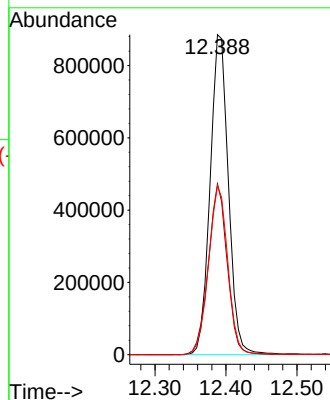
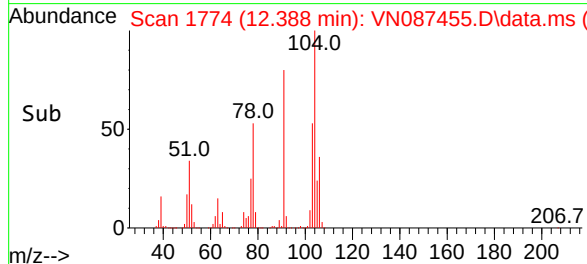
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



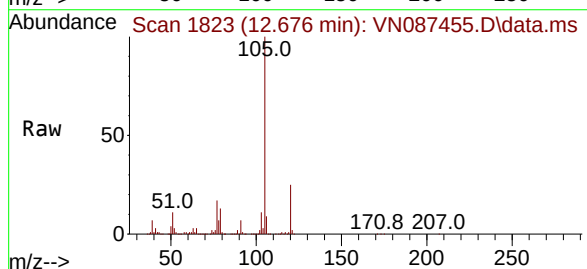
Tgt Ion:104 Resp: 158550  
Ion Ratio Lower Upper  
104 100  
78 55.1 43.8 65.8  
103 55.4 43.1 64.7

Manual Integrations  
APPROVED

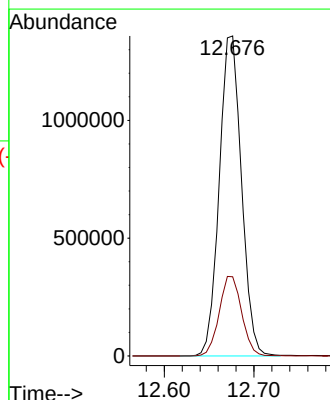
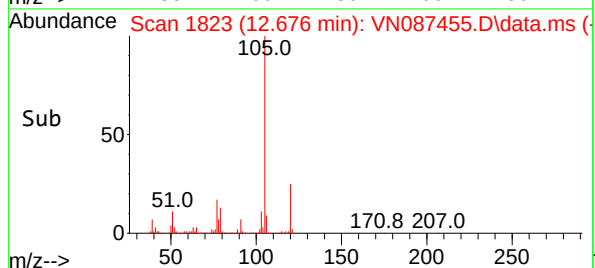
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

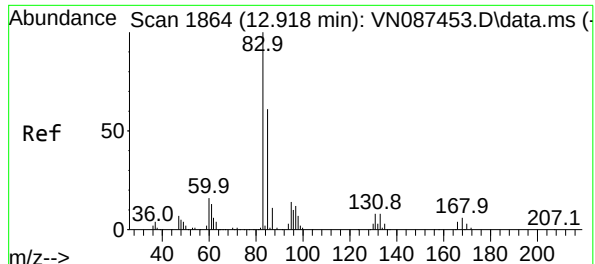


#70  
Isopropylbenzene  
Concen: 102.833 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40



Tgt Ion:105 Resp: 2334192  
Ion Ratio Lower Upper  
105 100  
120 25.2 17.5 32.5





#71

1,1,2-Tetrachloroethane

Concen: 100.840 ug/l

RT: 12.917 min Scan# 1864

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 784278

Ion Ratio Lower Upper

83 100

131 9.3 4.8 14.3

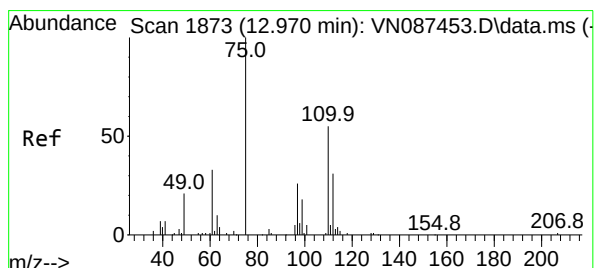
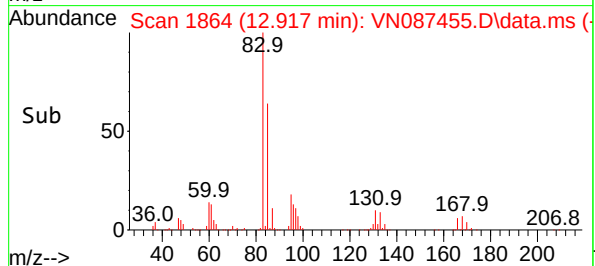
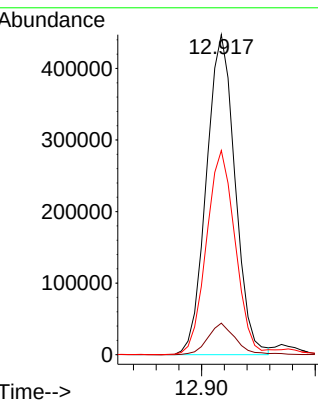
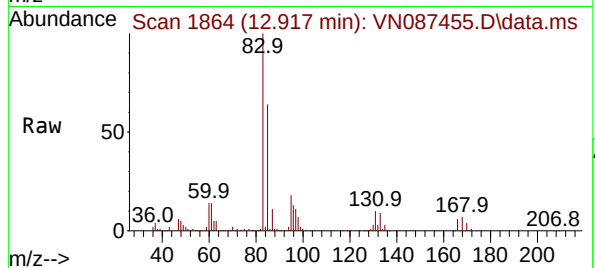
85 63.8 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#72

1,2,3-Trichloropropane

Concen: 94.296 ug/l m

RT: 12.970 min Scan# 1873

Delta R.T. -0.000 min

Lab File: VN087455.D

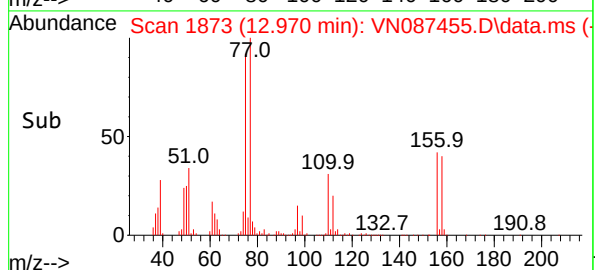
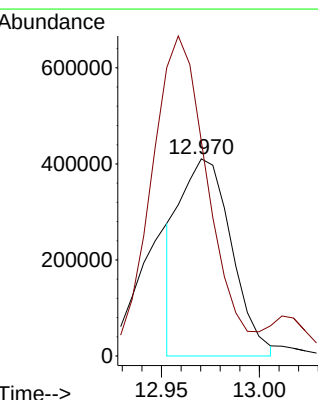
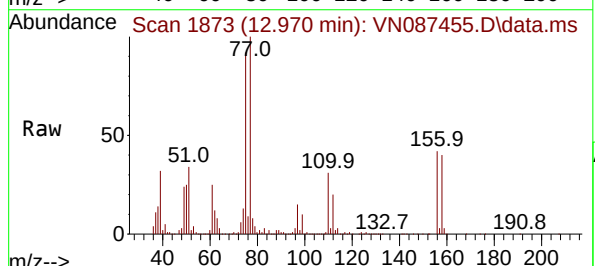
Acq: 05 Aug 2025 14:40

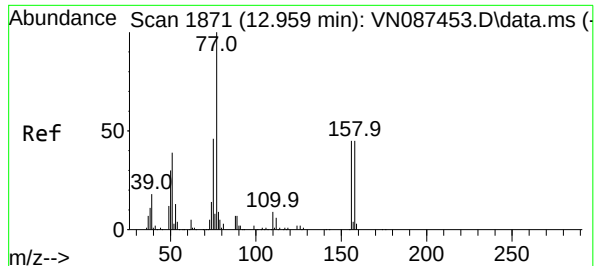
Tgt Ion: 75 Resp: 753853

Ion Ratio Lower Upper

75 100

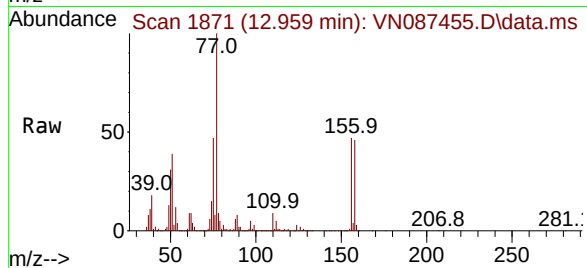
77 179.0 0.0 385.0





#73  
Bromobenzene  
Concen: 102.653 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

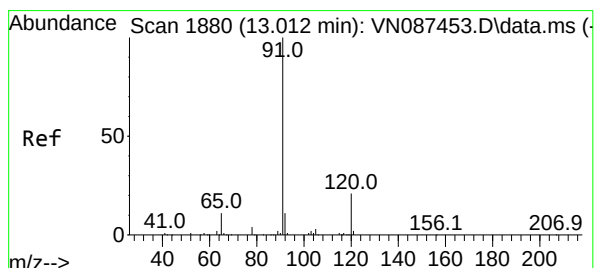
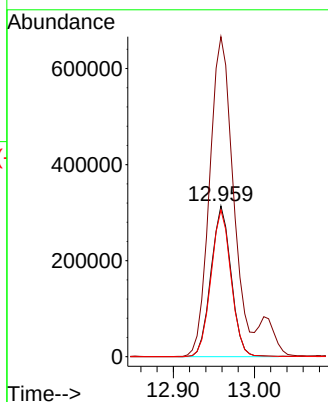
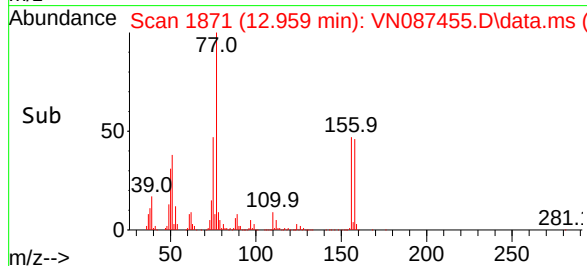
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion:156 Resp: 540169  
Ion Ratio Lower Upper  
156 100  
77 249.8 0.0 506.6  
158 97.2 0.0 193.6

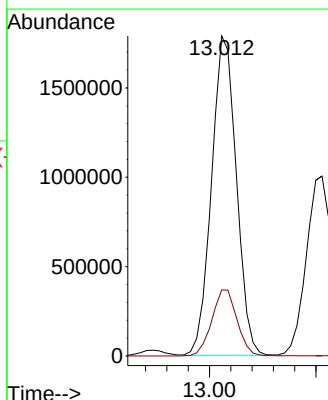
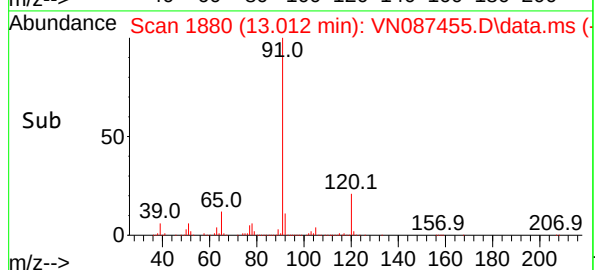
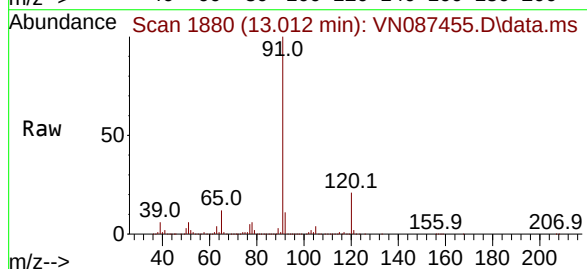
Manual Integrations  
APPROVED

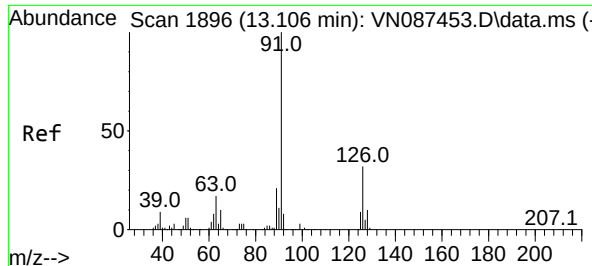
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#74  
n-propylbenzene  
Concen: 102.142 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2895579  
Ion Ratio Lower Upper  
91 100  
120 21.0 0.0 41.8





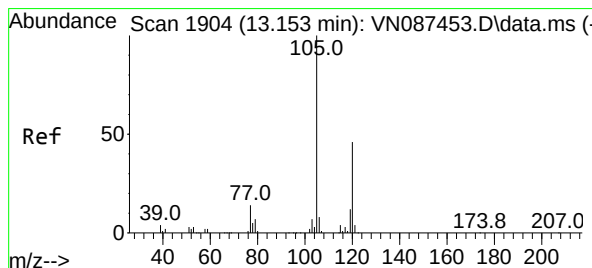
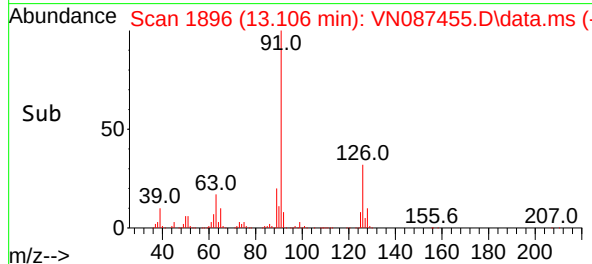
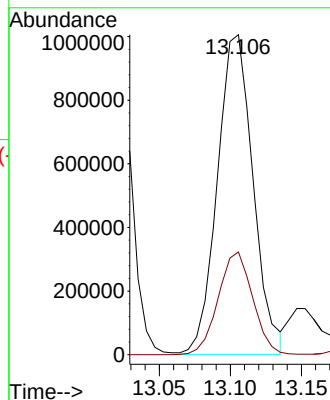
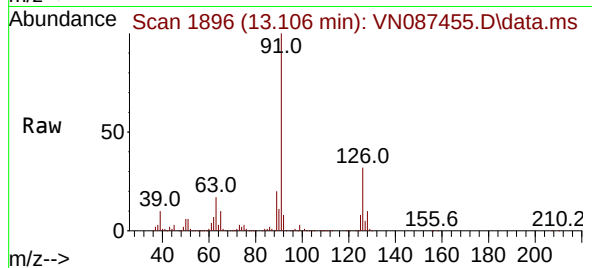
#75  
2-Chlorotoluene  
Concen: 100.765 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 91 Resp: 1757134  
Ion Ratio Lower Upper  
91 100  
126 31.1 0.0 60.4

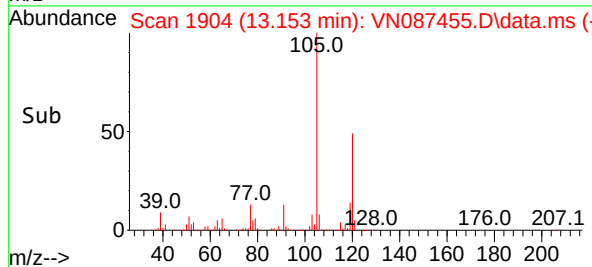
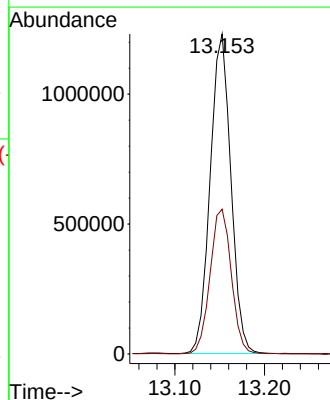
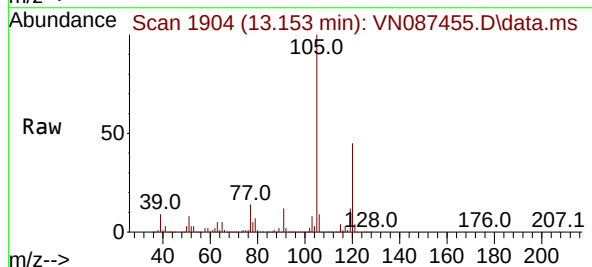
Manual Integrations  
APPROVED

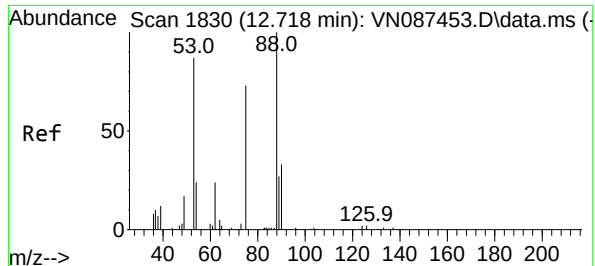
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 101.515 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 1972967  
Ion Ratio Lower Upper  
105 100  
120 46.6 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 113.952 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 31254

Ion Ratio Lower Upper

75 100

53 106.4 59.0 176.8

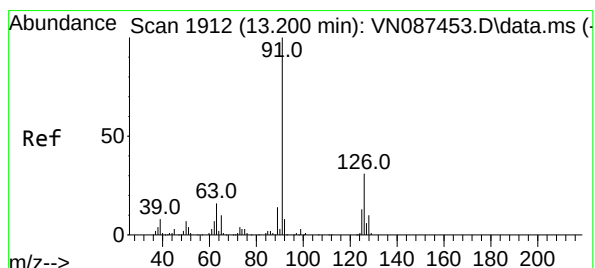
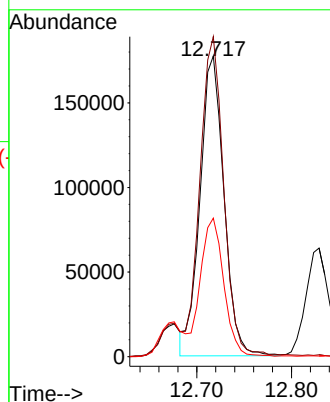
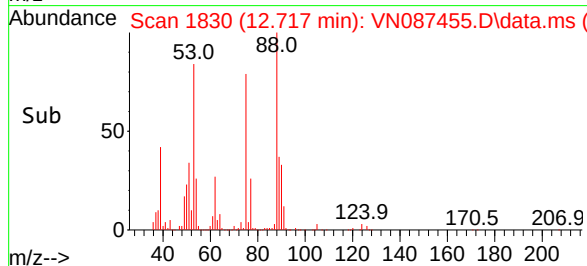
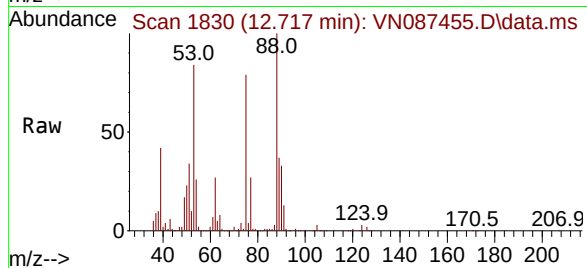
89 46.1 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 102.633 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. -0.000 min

Lab File: VN087455.D

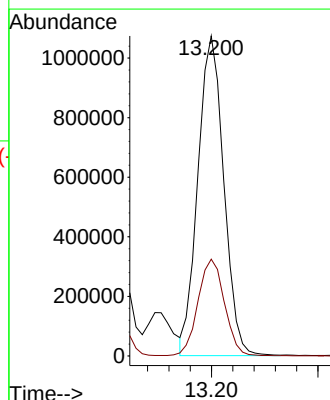
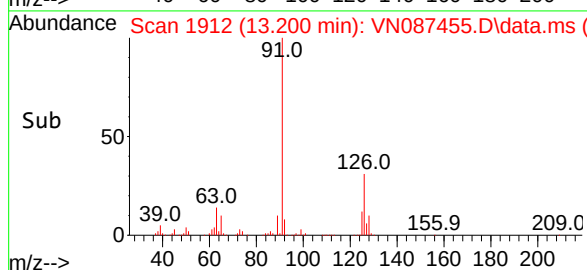
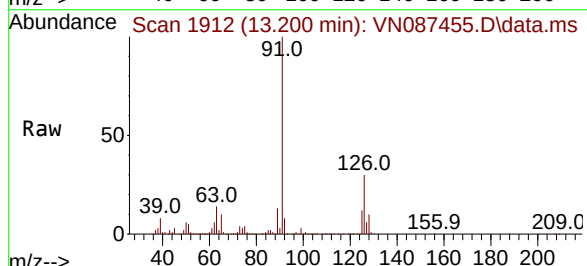
Acq: 05 Aug 2025 14:40

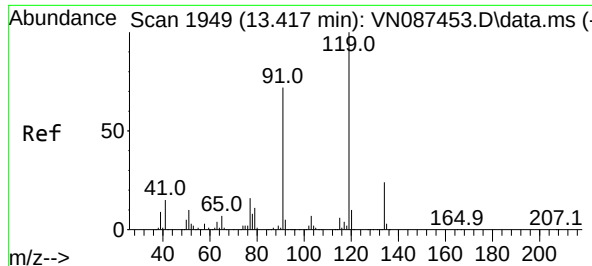
Tgt Ion: 91 Resp: 1813669

Ion Ratio Lower Upper

91 100

126 30.7 0.0 63.2





#79

tert-butylbenzene

Concen: 102.082 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 1672735

Ion Ratio Lower Upper

119 100

91 72.5 0.0 141.6

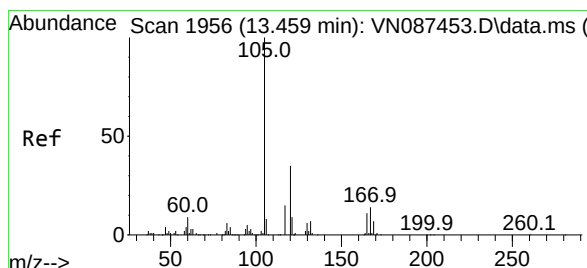
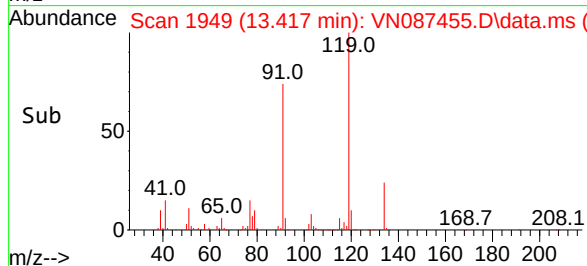
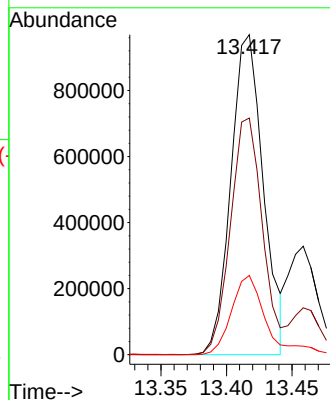
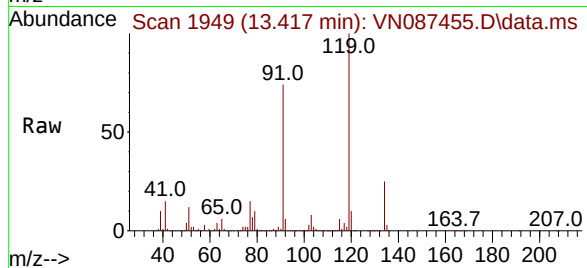
134 24.2 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 102.898 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087455.D

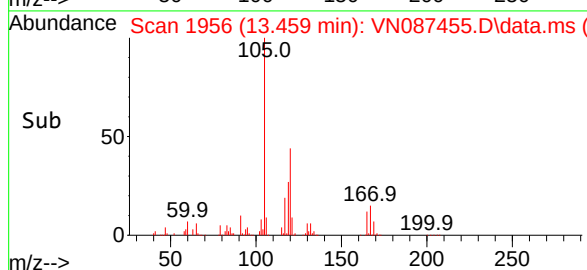
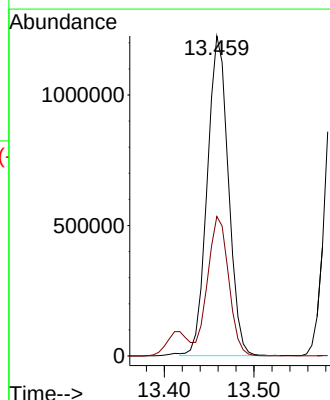
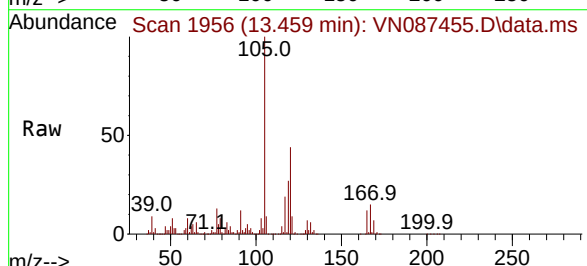
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 1998320

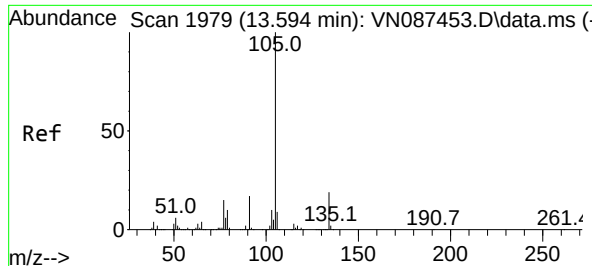
Ion Ratio Lower Upper

105 100

120 43.8 0.0 87.2

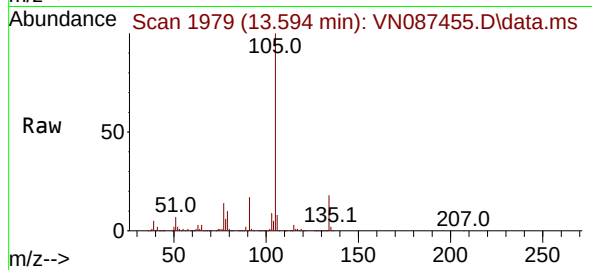






#81  
sec-Butylbenzene  
Concen: 101.283 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

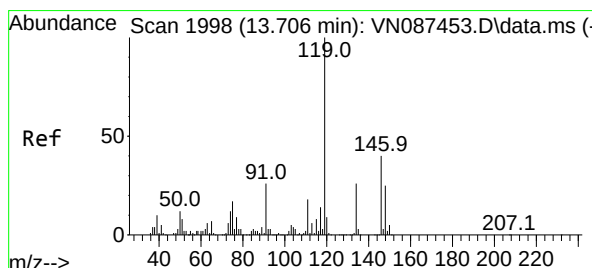
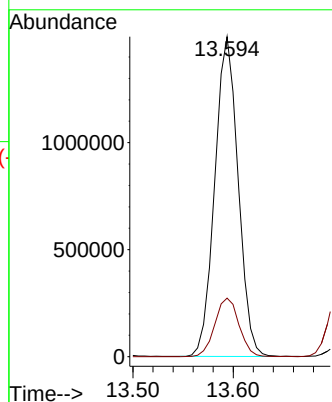
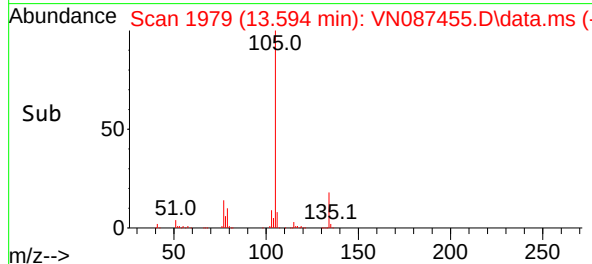
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100



Tgt Ion:105 Resp: 2416128  
Ion Ratio Lower Upper  
105 100  
134 19.0 0.0 37.6

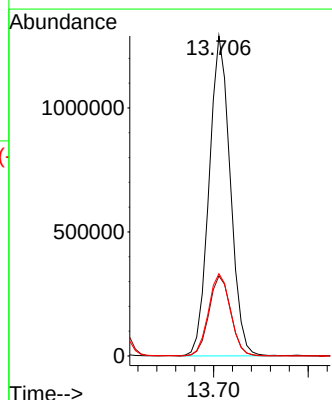
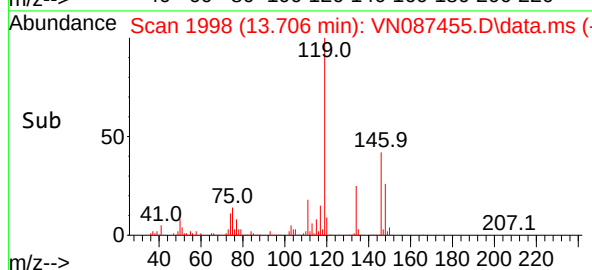
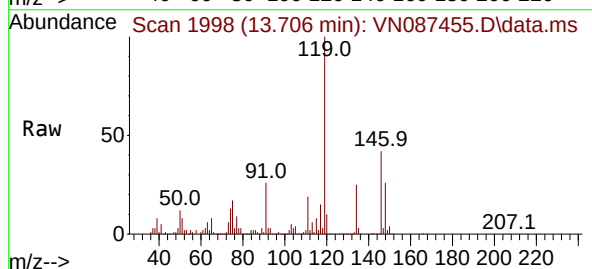
Manual Integrations  
APPROVED

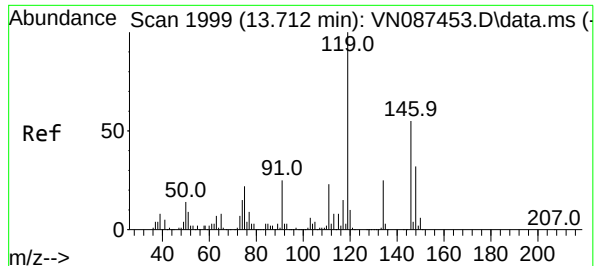
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#82  
p-Isopropyltoluene  
Concen: 101.064 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

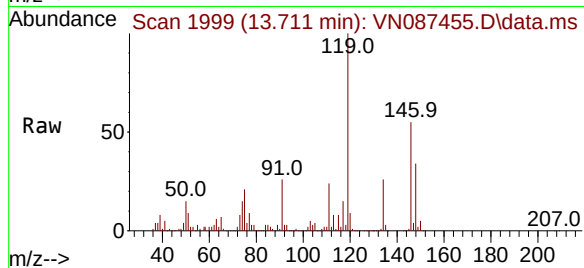
Tgt Ion:119 Resp: 2001765  
Ion Ratio Lower Upper  
119 100  
134 25.7 0.0 51.4  
91 26.5 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 101.387 ug/l  
RT: 13.711 min Scan# 1999  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

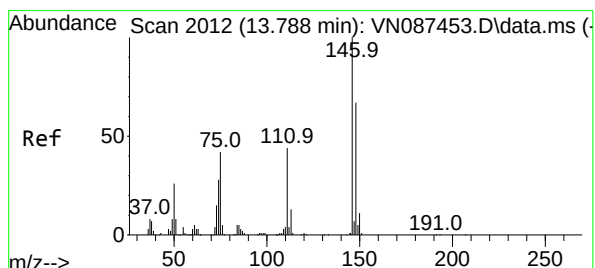
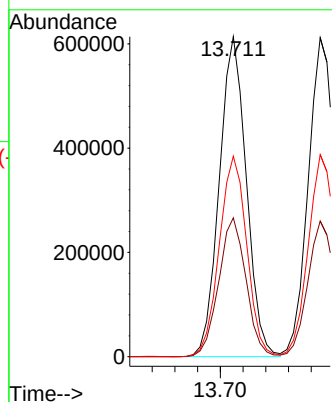
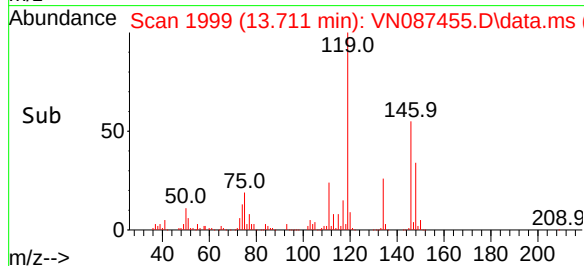
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



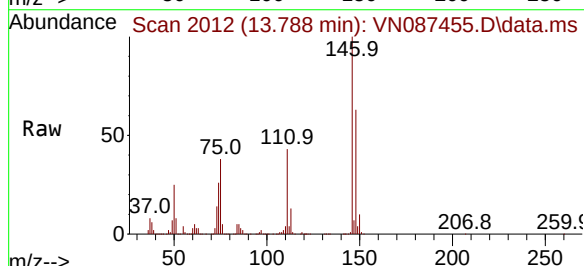
Tgt Ion:146 Resp: 1015919  
Ion Ratio Lower Upper  
146 100  
111 43.8 21.9 65.5  
148 63.7 31.3 93.9

Manual Integrations  
APPROVED

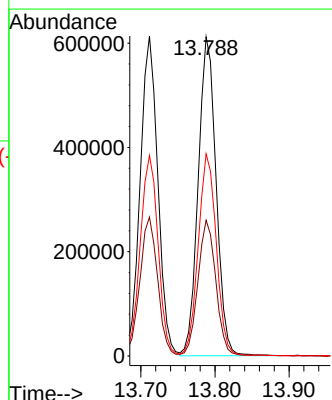
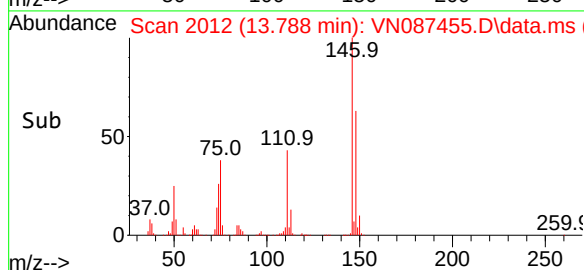
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

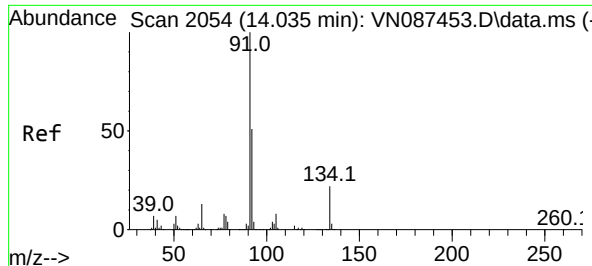


#84  
1,4-Dichlorobenzene  
Concen: 101.255 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40



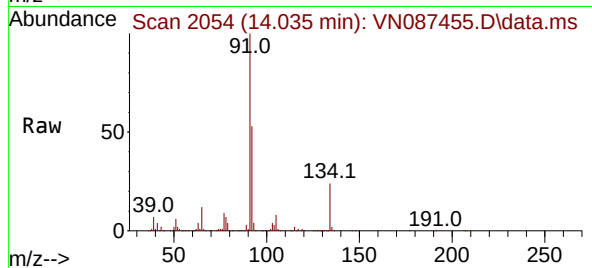
Tgt Ion:146 Resp: 1028636  
Ion Ratio Lower Upper  
146 100  
111 42.7 21.1 63.1  
148 63.9 31.4 94.3





#85  
n-Butylbenzene  
Concen: 102.562 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

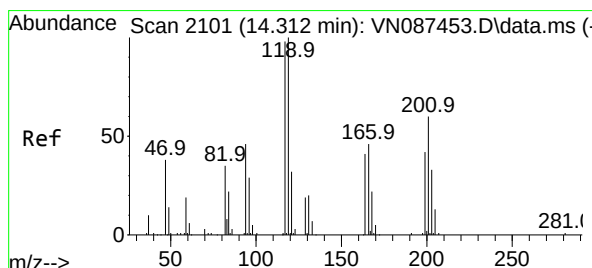
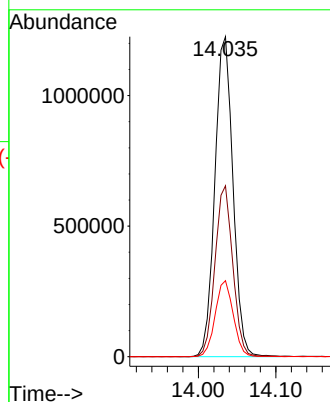
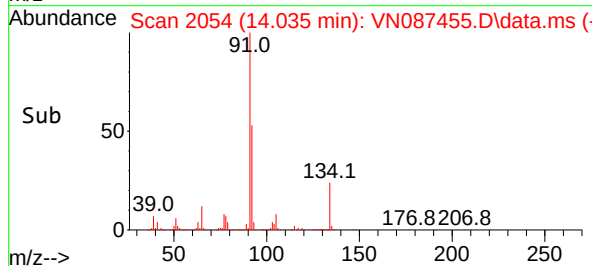
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 91 Resp: 1987530  
Ion Ratio Lower Upper  
91 100  
92 52.6 0.0 106.6  
134 23.8 0.0 44.4

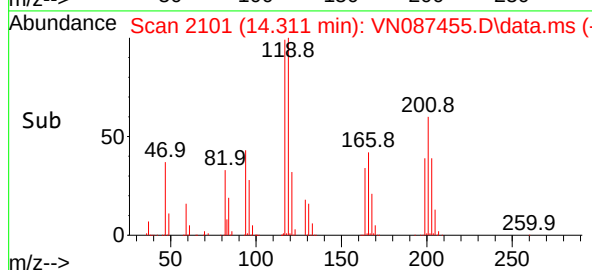
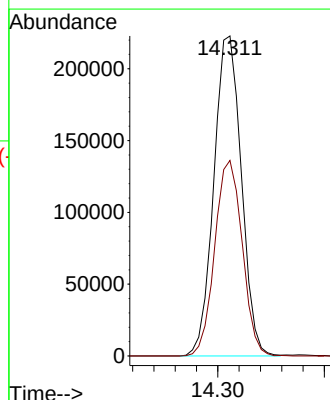
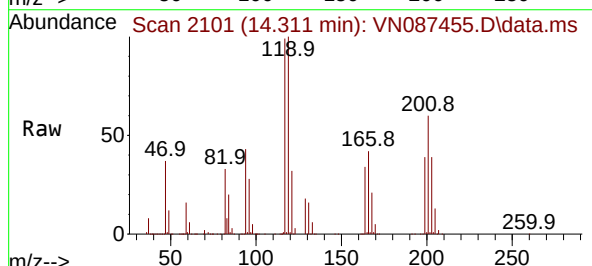
Manual Integrations  
APPROVED

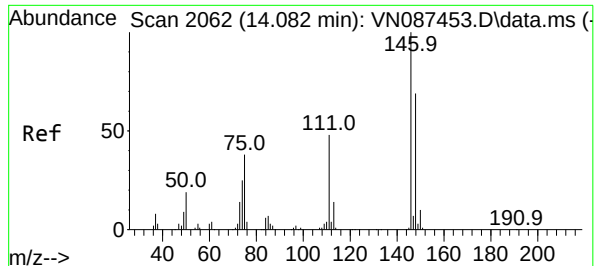
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#86  
Hexachloroethane  
Concen: 103.386 ug/l  
RT: 14.311 min Scan# 2101  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:117 Resp: 399888  
Ion Ratio Lower Upper  
117 100  
201 60.9 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 102.064 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 976220

Ion Ratio Lower Upper

146 100

111 44.9 22.9 68.7

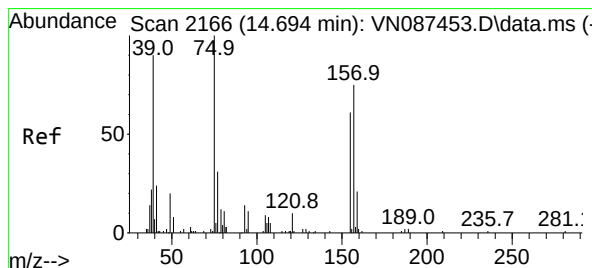
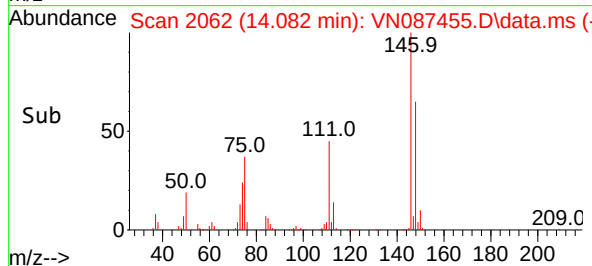
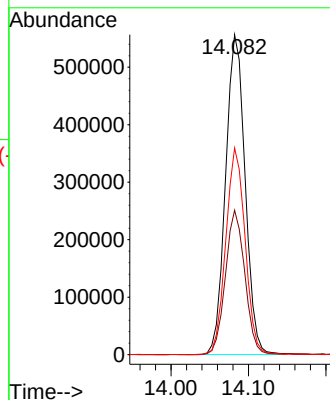
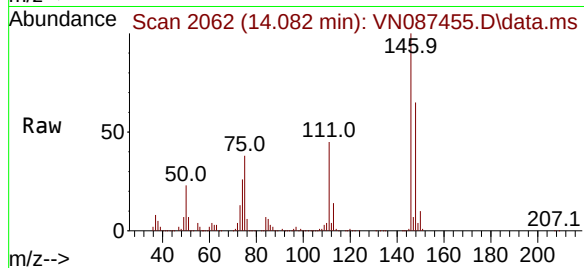
148 63.9 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 101.112 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

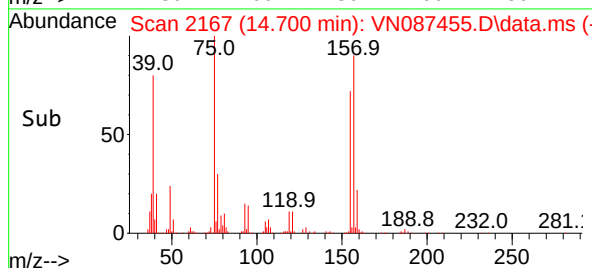
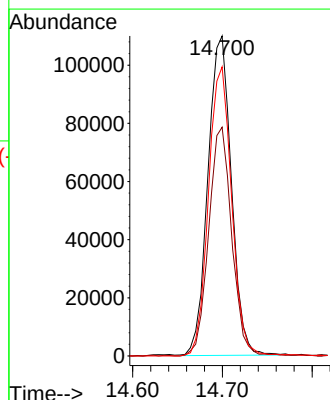
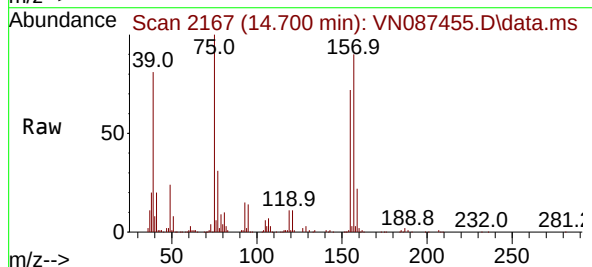
Tgt Ion: 75 Resp: 199216

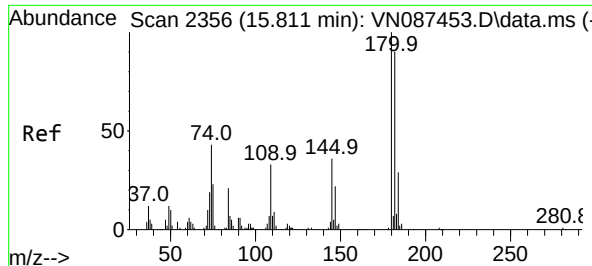
Ion Ratio Lower Upper

75 100

155 70.5 55.7 83.5

157 89.9 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 101.981 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 582952

Ion Ratio Lower Upper

180 100

182 94.3 75.0 112.4

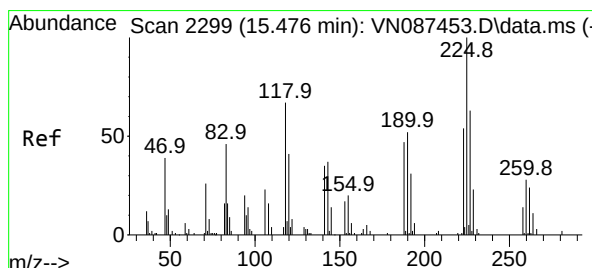
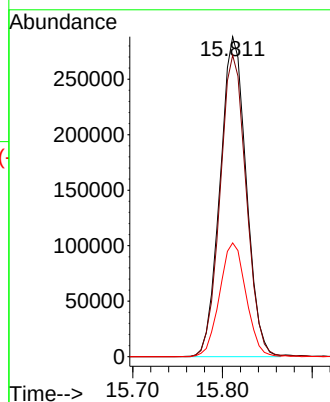
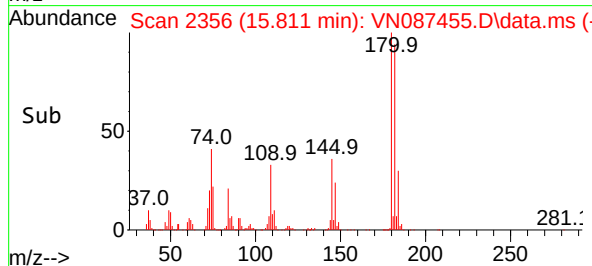
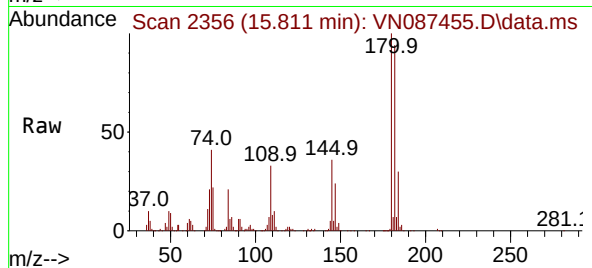
145 35.9 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 95.460 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

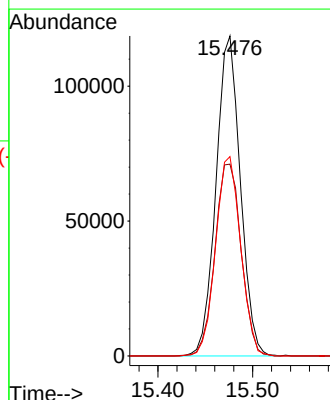
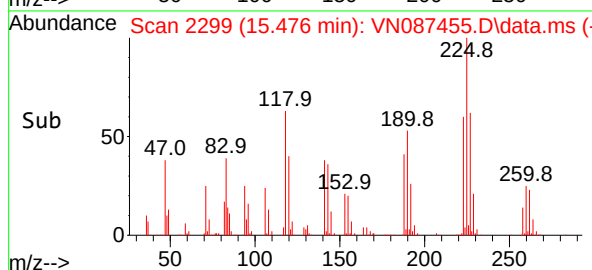
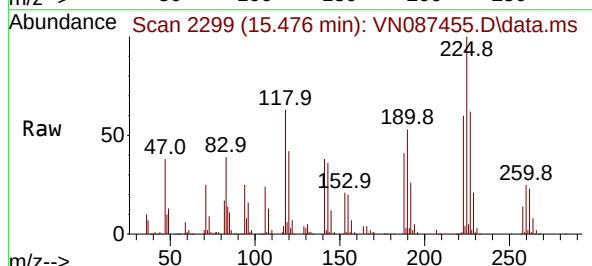
Tgt Ion:225 Resp: 212184

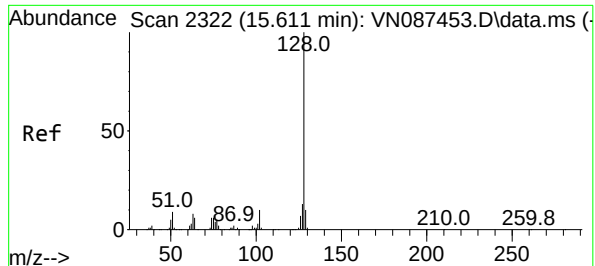
Ion Ratio Lower Upper

225 100

223 64.5 0.0 116.0

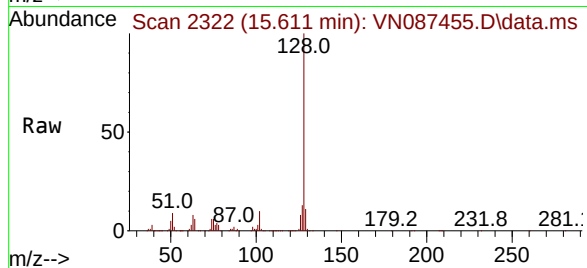
227 64.1 0.0 127.0





#91  
Naphthalene  
Concen: 103.669 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

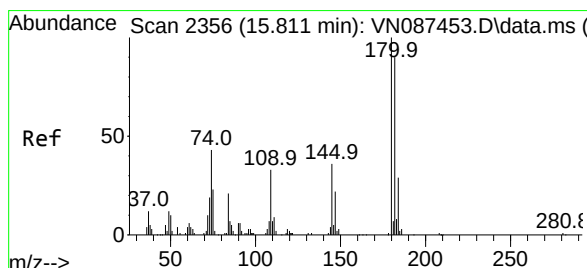
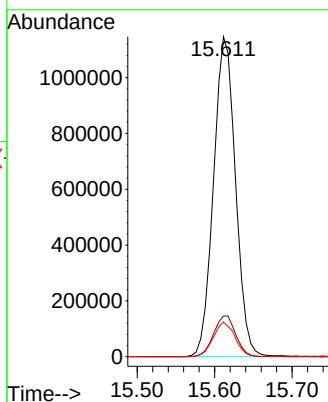
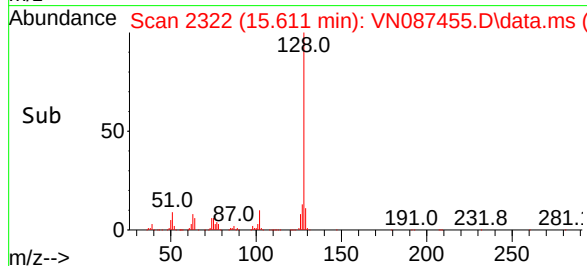
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:128 Resp: 225955  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.7 8.9 13.3

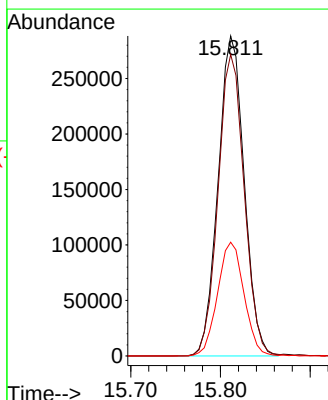
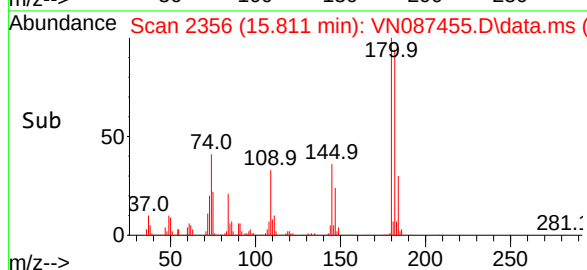
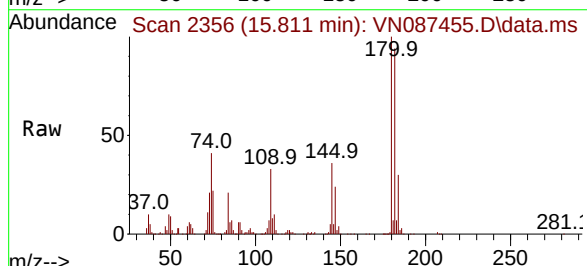
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 101.981 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:180 Resp: 582952  
Ion Ratio Lower Upper  
180 100  
182 94.3 0.0 187.4  
145 35.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087456.D  
 Acq On : 05 Aug 2025 15:01  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 69078      | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 387583     | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 364557     | 30.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 189674     | 29.770  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 99.233% |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 185190     | 29.518  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 98.400% |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 486934     | 29.029  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 96.767% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 723378     | 160.391 | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 725628     | 156.816 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.542          | 62   | 763252     | 155.517 | ug/l   | 98       |
| 5) Bromomethane              | 2.948          | 94   | 445899     | 167.854 | ug/l   | 88       |
| 6) Chloroethane              | 3.124          | 64   | 492727     | 155.693 | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 1085005    | 153.614 | ug/l   | 95       |
| 8) Diethyl Ether             | 3.959          | 74   | 454480     | 154.449 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 551904     | 153.229 | ug/l   | 90       |
| 10) 1,1-Dichloroethene       | 4.330          | 96   | 595776     | 157.473 | ug/l   | 97       |
| 11) Methyl Iodide            | 4.577          | 142  | 615618     | 207.681 | ug/l   | 96       |
| 12) Methyl Acetate           | 5.012          | 43   | 1117123    | 160.008 | ug/l   | 96       |
| 13) Acrolein                 | 4.171          | 56   | 885350     | 830.485 | ug/l   | 100      |
| 14) Acrylonitrile            | 5.706          | 53   | 2386034    | 782.650 | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 624281     | 716.676 | ug/l   | 93       |
| 16) Carbon Disulfide         | 4.700          | 76   | 1818928    | 154.990 | ug/l   | 99       |
| 17) Allyl chloride           | 5.006          | 41   | 1219550    | 158.149 | ug/l   | 96       |
| 18) Methylene Chloride       | 5.259          | 84   | 741791     | 152.333 | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 697274     | 154.982 | ug/l   | 97       |
| 20) Diisopropyl ether        | 6.659          | 45   | 2747446    | 156.466 | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 1407817    | 155.035 | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 860976     | 155.531 | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 986070     | 761.173 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 2719481    | 157.748 | ug/l   | 98       |
| 25) Chloroform               | 7.947          | 83   | 1478128    | 155.945 | ug/l   | 97       |
| 26) Cyclohexane              | 8.235          | 56   | 1125305    | 154.779 | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 964808     | 152.623 | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 3513639    | 754.051 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 1224801    | 150.224 | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 1249167    | 154.937 | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 1036608    | 154.768 | ug/l   | 94       |
| 34) Benzene                  | 8.588          | 78   | 3070072    | 153.850 | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.765          | 41   | 743083     | 147.778 | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 1229451    | 152.417 | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 671378     | 152.738 | ug/l   | 95       |
| 38) Methylcyclohexane        | 9.582          | 83   | 1115098    | 152.053 | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 775438     | 151.562 | ug/l   | 98       |
| 40) Dibromomethane           | 9.688          | 93   | 586203     | 152.708 | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 1228566    | 154.020 | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.588          | 43   | 11742175   | 765.203 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087456.D  
 Acq On : 05 Aug 2025 15:01  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 1387131  | 156.385  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 2332673  | 152.869  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 293747   | 3019.679 | ug/l # | 93       |
| 46) Methyl methacrylate       | 9.665  | 41   | 1134360  | 157.486  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.482 | 43   | 1594700  | 207.839  | ug/l # | 59       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 1360863  | 156.815  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 1364130  | 156.195  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 751367   | 154.919  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 1388488  | 162.554  | ug/l   | 99       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 1349103  | 154.396  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.341 | 129  | 890655   | 159.011  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 801234   | 155.619  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 3422234  | 761.062  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 604236   | 163.094  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 6842960  | 729.674  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.176 | 43   | 4970555  | 780.064  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 527237   | 148.447  | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 3345117  | 148.669  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.870 | 112  | 2069135  | 149.658  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 721459   | 148.418  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 3762645  | 150.033  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.053 | 106  | 2745929  | 298.294  | ug/l   | 98       |
| 68) o-Xylene                  | 12.376 | 106  | 1358102  | 149.962  | ug/l   | 99       |
| 69) Styrene                   | 12.388 | 104  | 2382097  | 154.045  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 3492470  | 151.792  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 1145045  | 145.247  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 1117688m | 137.926  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 798843   | 149.771  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 4261831  | 148.316  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 2596357  | 146.890  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 2914301  | 147.934  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 466370   | 167.752  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 2683008  | 149.787  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 2427930  | 146.177  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 2936296  | 149.164  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 3544404  | 146.583  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 2934141  | 146.146  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 1508514  | 148.523  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1521926  | 147.799  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 2920119  | 148.660  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 595863   | 151.982  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 1446749  | 149.224  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 299287   | 149.861  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 317783   | 141.046  | ug/l   | 96       |
| 91) Naphthalene               | 15.611 | 128  | 3431814  | 155.335  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |

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



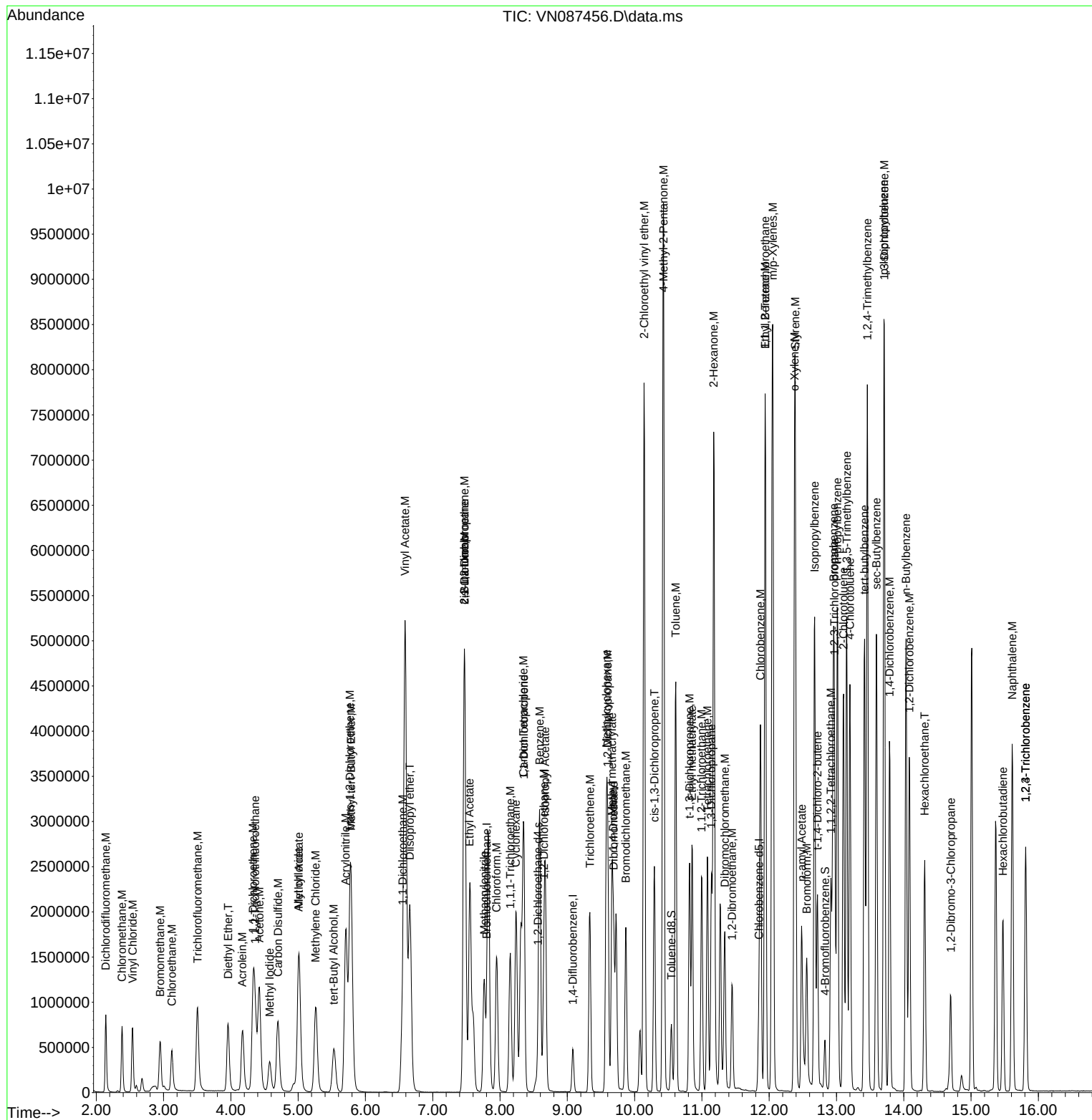
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Acq On    : 05 Aug 2025  15:01  
Operator  : JC\MD  
Sample    : VSTDICC150  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
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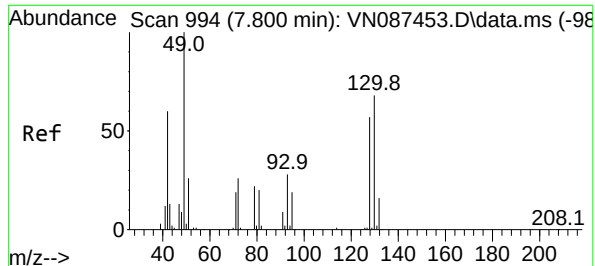
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MSVOA\_N  
**ClientSampleId :**  
VSTDICC150

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:30:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration





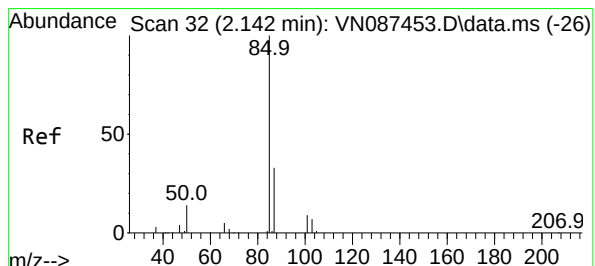
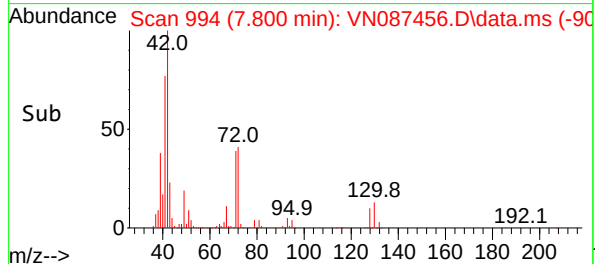
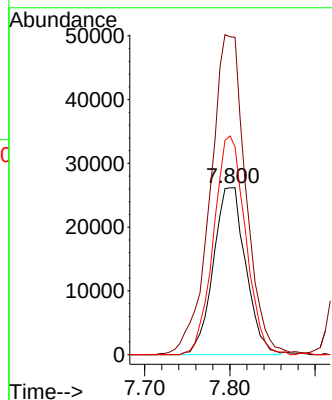
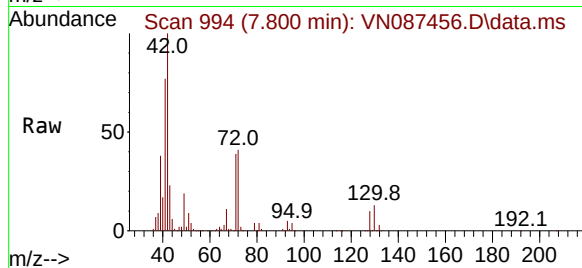
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion:128 Resp: 69078  
Ion Ratio Lower Upper  
128 100  
49 210.7 0.0 494.8  
130 129.4 0.0 321.5

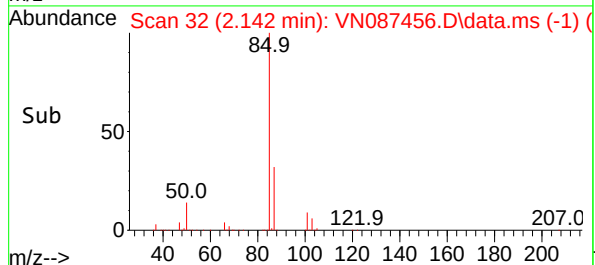
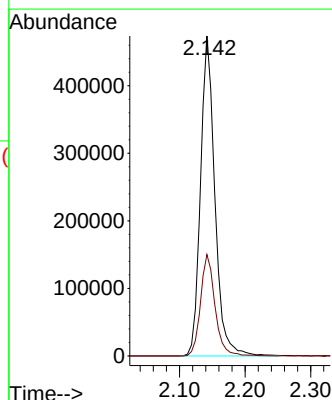
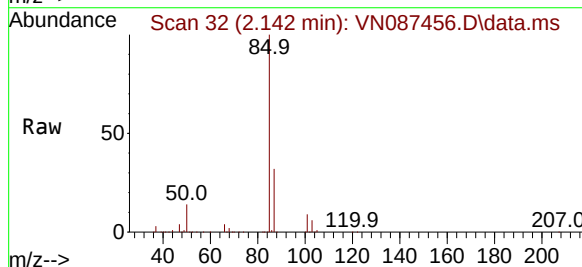
Manual Integrations  
APPROVED

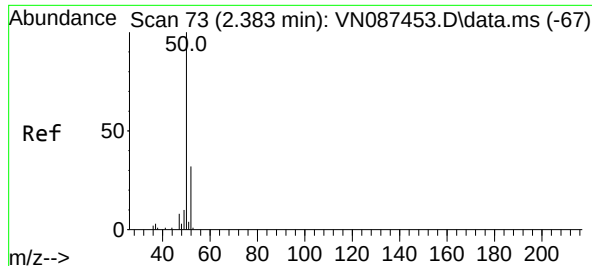
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#2  
Dichlorodifluoromethane  
Concen: 160.391 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

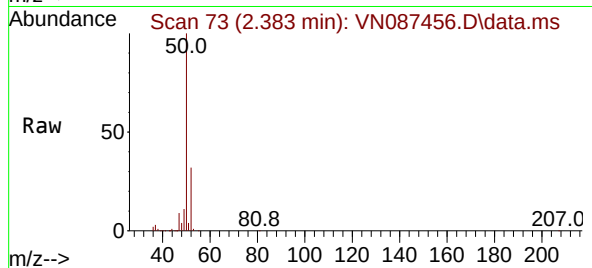
Tgt Ion: 85 Resp: 723378  
Ion Ratio Lower Upper  
85 100  
87 31.7 16.4 49.2





#3  
Chloromethane  
Concen: 156.816 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

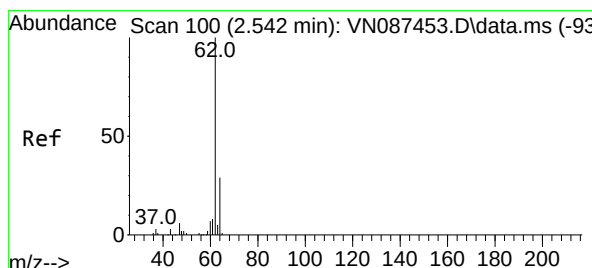
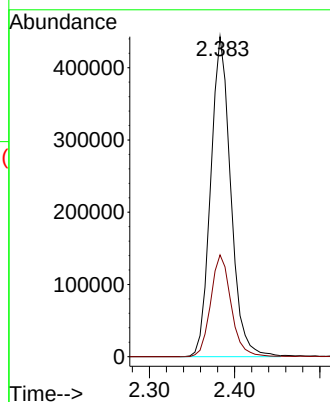
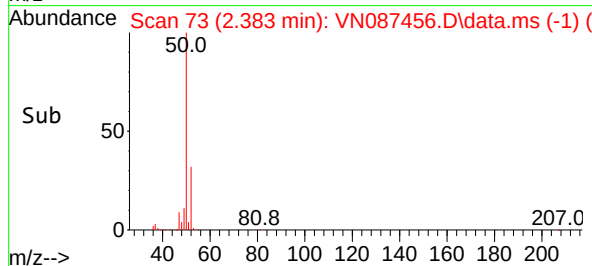
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 50 Resp: 725628  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.8 38.6

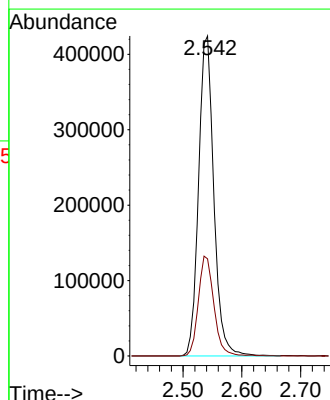
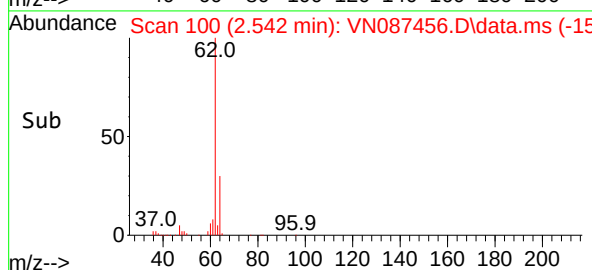
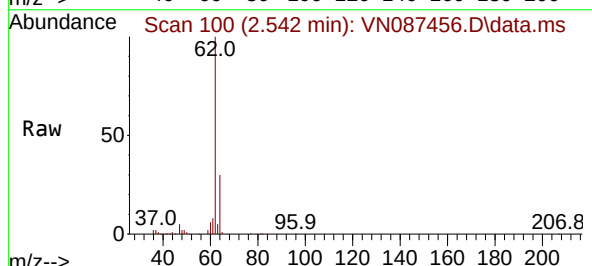
Manual Integrations  
APPROVED

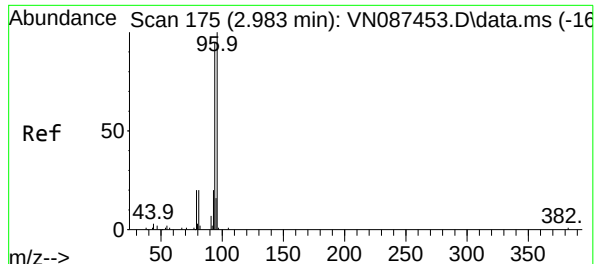
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#4  
Vinyl Chloride  
Concen: 155.517 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

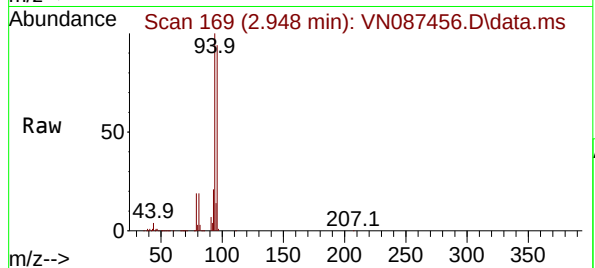
Tgt Ion: 62 Resp: 763252  
Ion Ratio Lower Upper  
62 100  
64 30.3 23.4 35.2





#5  
Bromomethane  
Concen: 167.854 ug/l  
RT: 2.948 min Scan# 1  
Delta R.T. -0.035 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

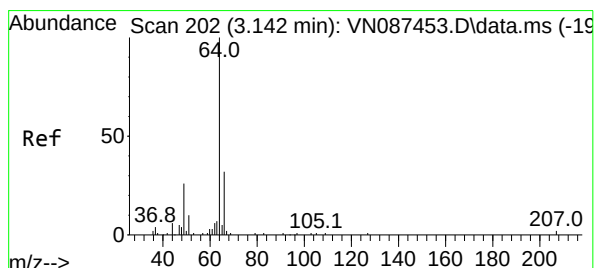
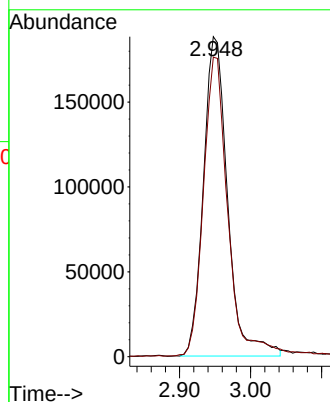
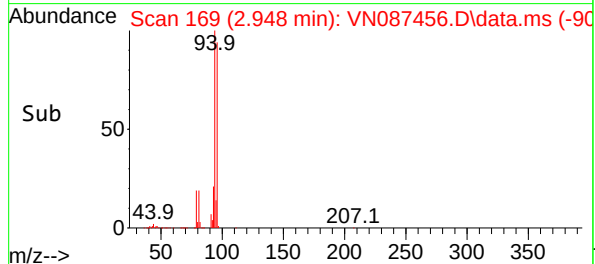
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 94 Resp: 44589  
Ion Ratio Lower Upper  
94 100  
96 93.1 84.2 126.4

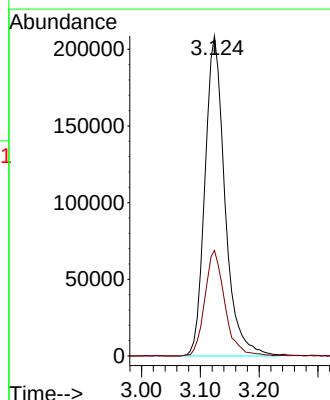
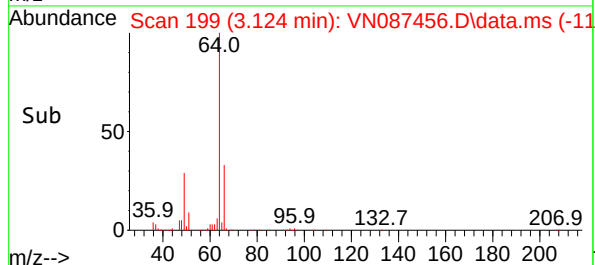
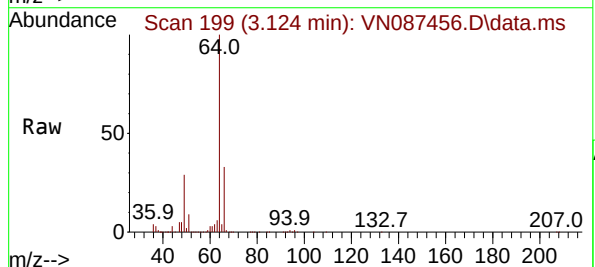
Manual Integrations  
APPROVED

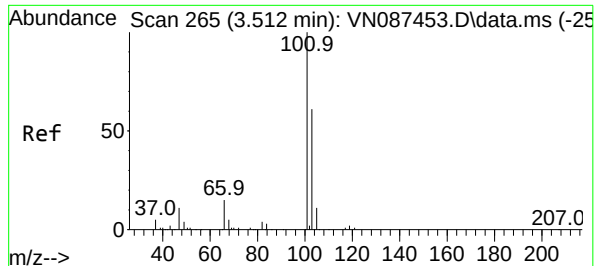
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#6  
Chloroethane  
Concen: 155.693 ug/l  
RT: 3.124 min Scan# 199  
Delta R.T. -0.018 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

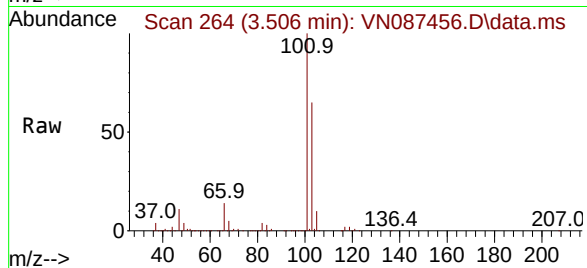
Tgt Ion: 64 Resp: 492727  
Ion Ratio Lower Upper  
64 100  
66 33.0 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 153.614 ug/l  
RT: 3.506 min Scan# 265  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

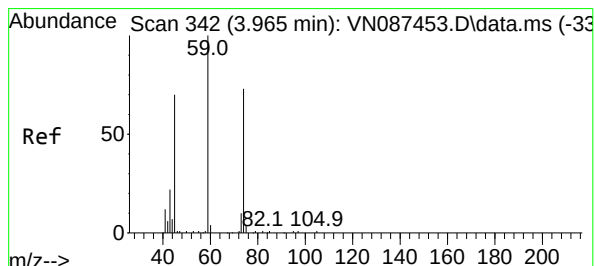
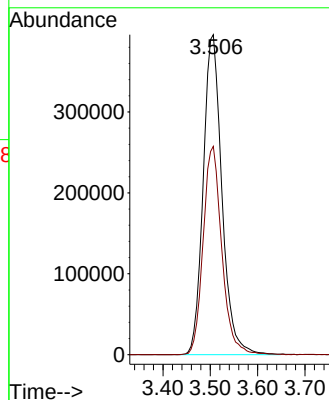
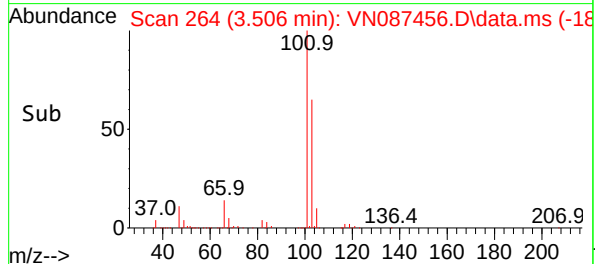
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



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Ion Ratio Lower Upper  
101 100  
103 65.1 49.2 73.8

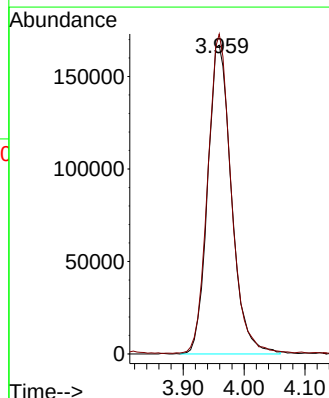
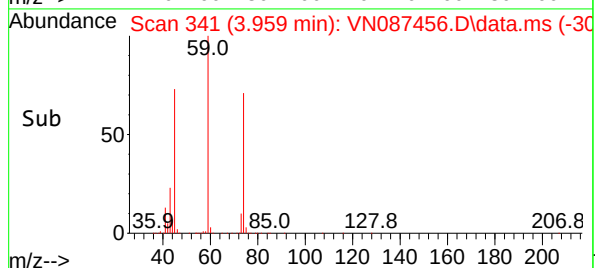
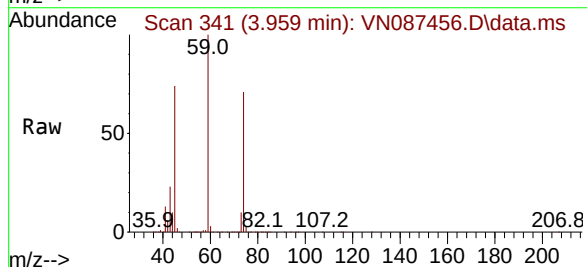
Manual Integrations  
APPROVED

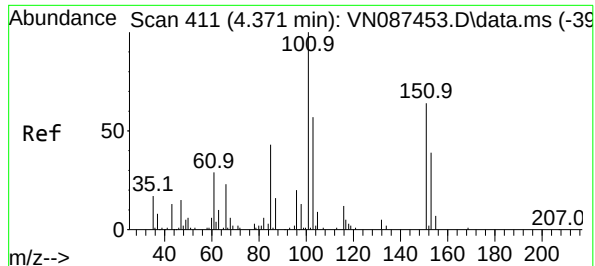
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 154.449 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

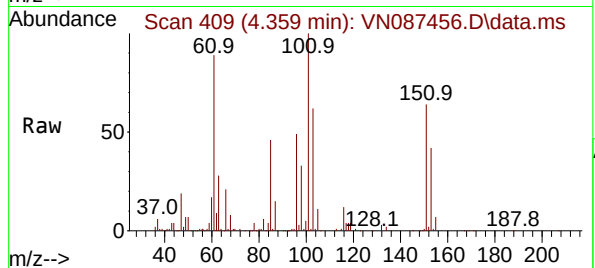
Tgt Ion: 74 Resp: 454480  
Ion Ratio Lower Upper  
74 100  
45 101.8 20.1 180.9





#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 153.229 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. -0.012 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

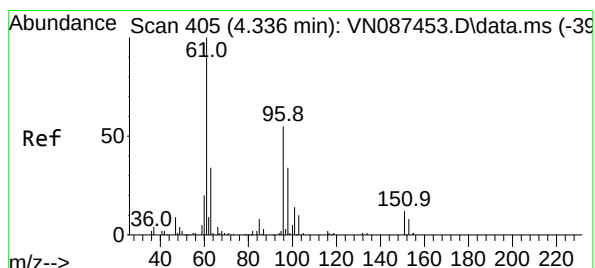
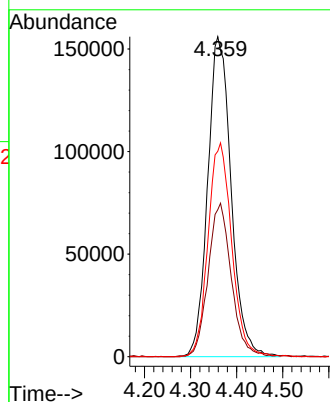
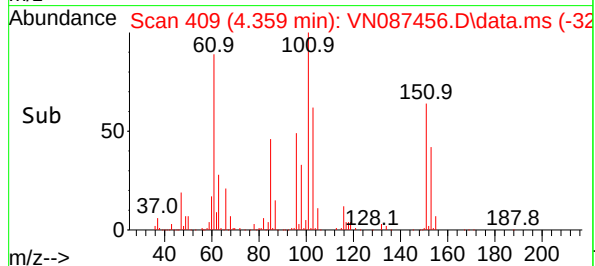
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion:101 Resp: 551904  
Ion Ratio Lower Upper  
101 100  
85 46.6 0.0 57.0  
151 67.1 0.0 134.2

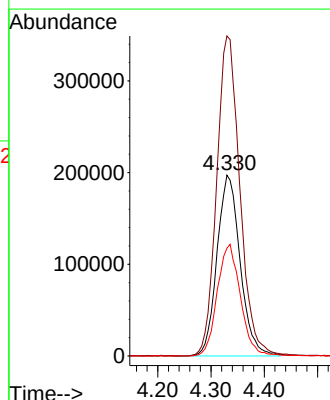
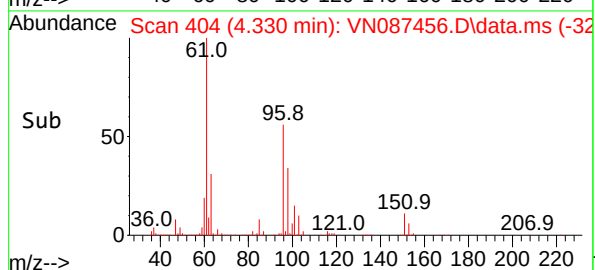
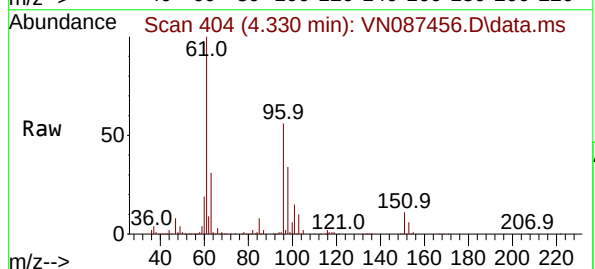
Manual Integrations  
APPROVED

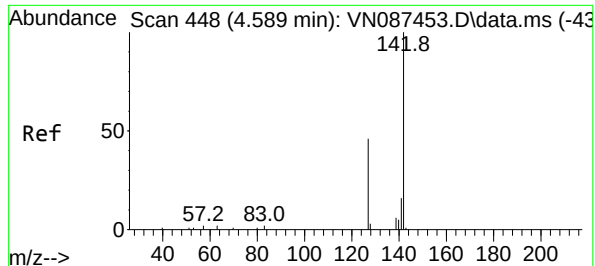
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#10  
1,1-Dichloroethene  
Concen: 157.473 ug/l  
RT: 4.330 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 96 Resp: 595776  
Ion Ratio Lower Upper  
96 100  
61 177.0 144.2 216.4  
98 59.5 49.7 74.5





#11

Methyl Iodide

Concen: 207.681 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion:142 Resp: 615618

Ion Ratio Lower Upper

142 100

127 48.8 22.9 68.7

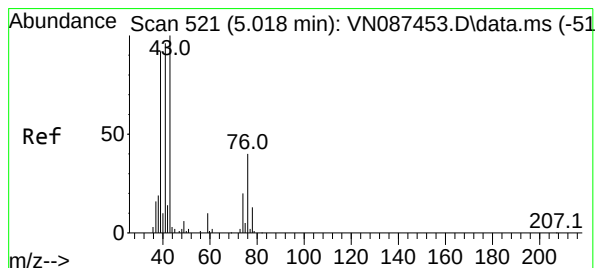
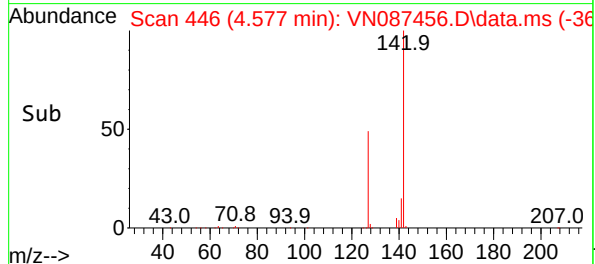
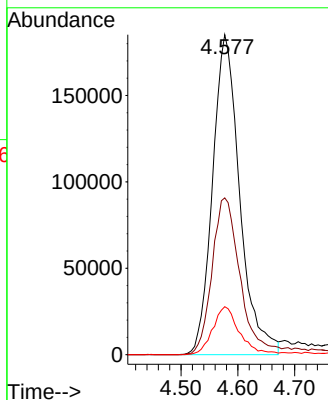
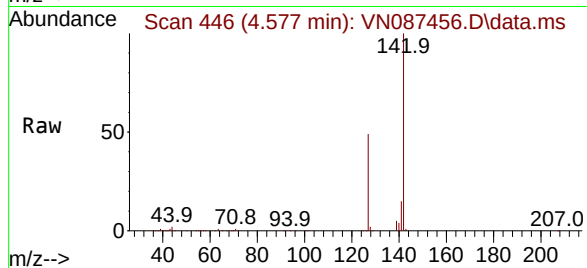
141 15.0 7.7 23.1

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 160.008 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087456.D

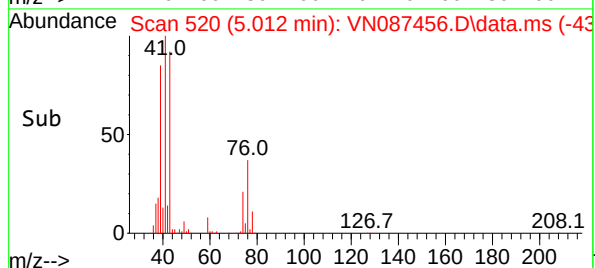
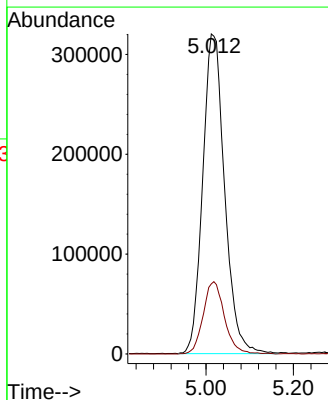
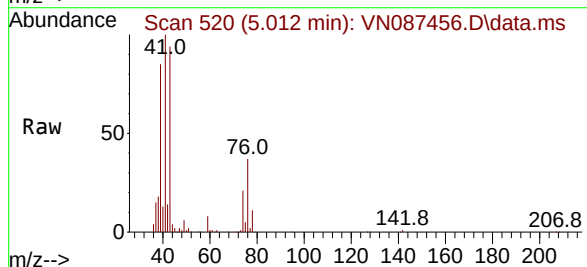
Acq: 05 Aug 2025 15:01

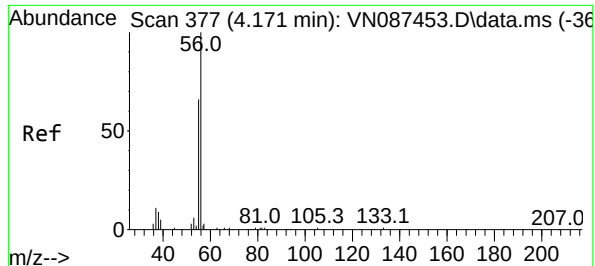
Tgt Ion: 43 Resp: 1117123

Ion Ratio Lower Upper

43 100

74 21.9 16.0 24.0





#13

Acrolein

Concen: 830.485 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 885350

Ion Ratio Lower Upper

56 100

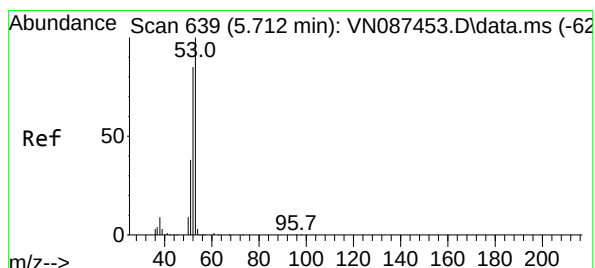
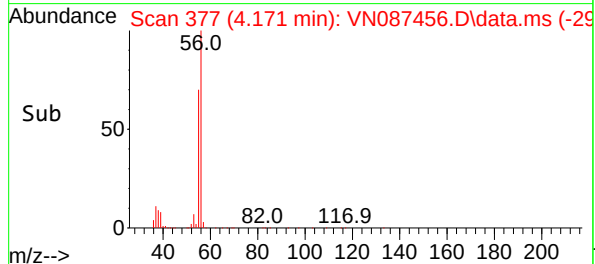
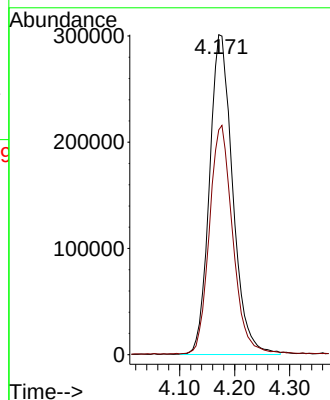
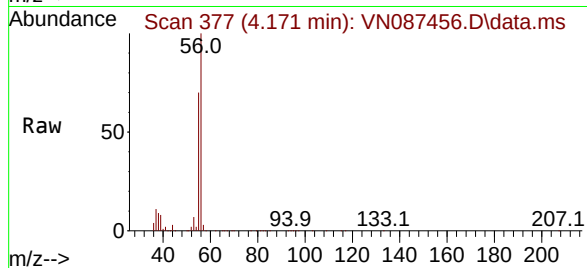
55 71.5 57.4 86.0

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 782.650 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

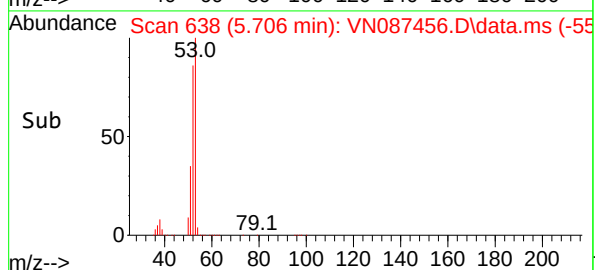
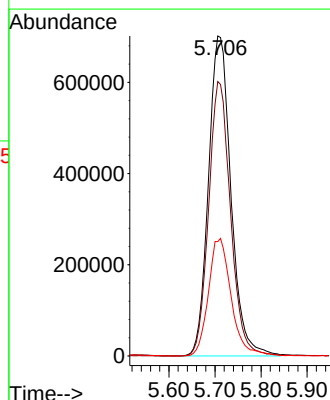
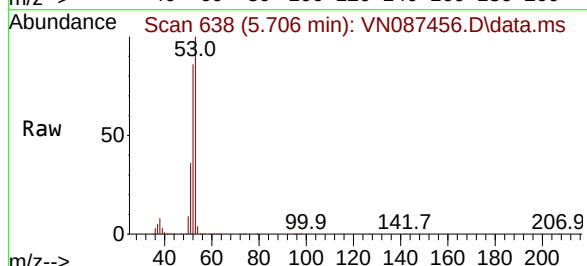
Tgt Ion: 53 Resp: 2386034

Ion Ratio Lower Upper

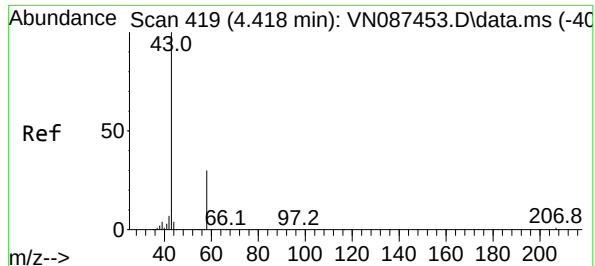
53 100

52 83.1 42.4 127.2

51 37.2 18.5 55.5

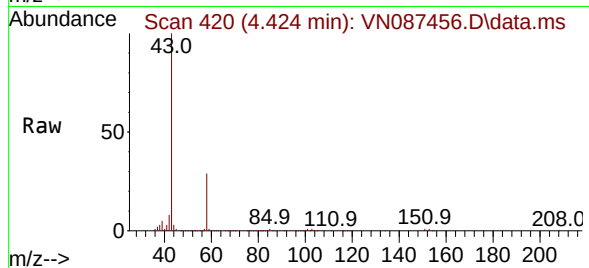






#15  
Acetone  
Concen: 716.676 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

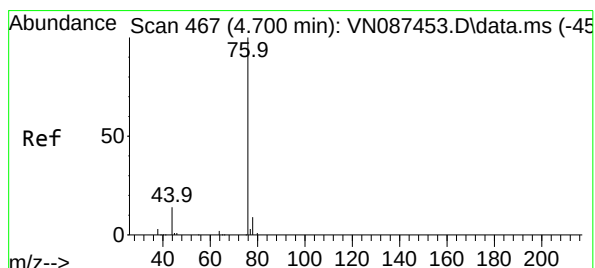
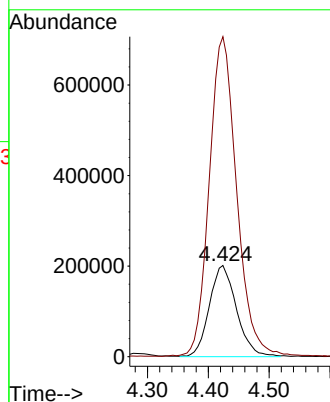
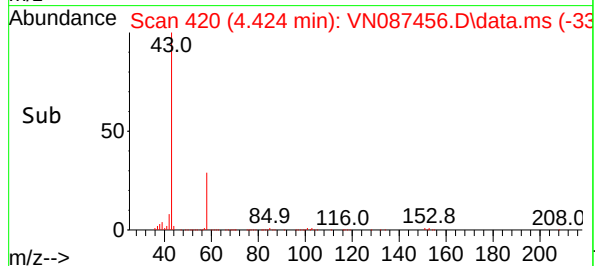
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 58 Resp: 62428  
Ion Ratio Lower Upper  
58 100  
43 350.8 268.9 403.3

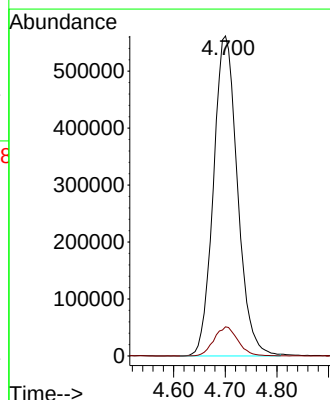
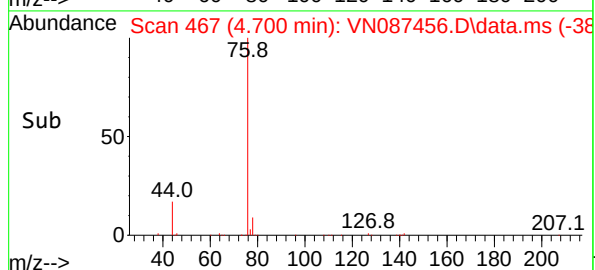
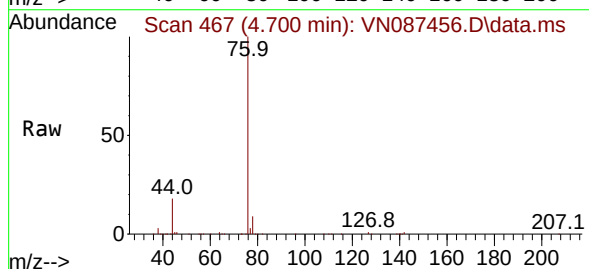
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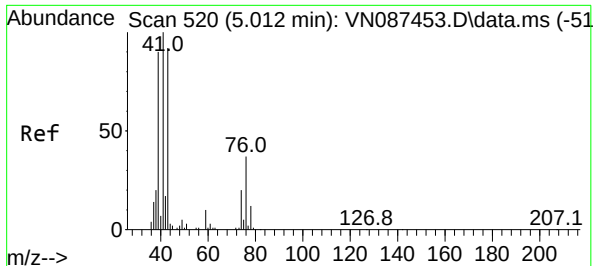
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#16  
Carbon Disulfide  
Concen: 154.990 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 76 Resp: 1818928  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 158.149 ug/l

RT: 5.006 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087456.D

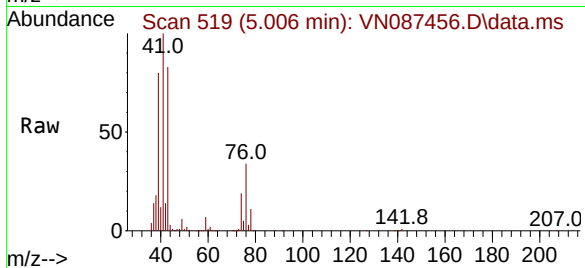
Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150



Tgt Ion: 41 Resp: 1219550

Ion Ratio Lower Upper

41 100

39 80.0 42.4 127.2

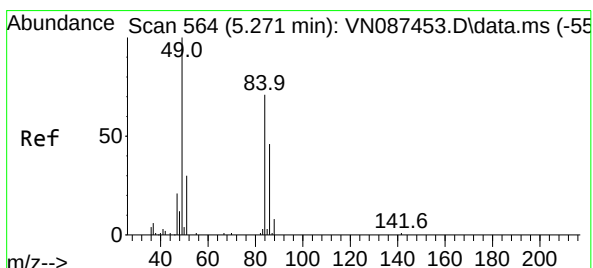
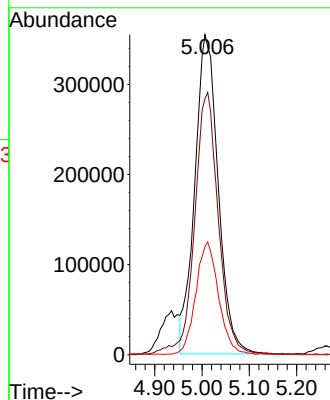
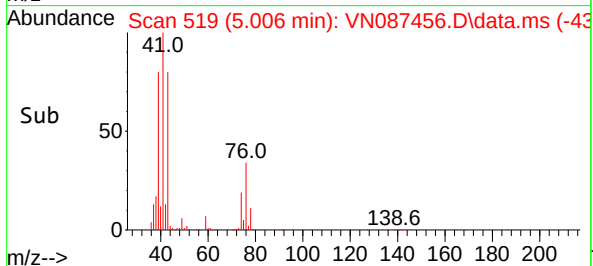
76 33.8 16.9 50.6

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 152.333 ug/l

RT: 5.259 min Scan# 562

Delta R.T. -0.012 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 84 Resp: 741791

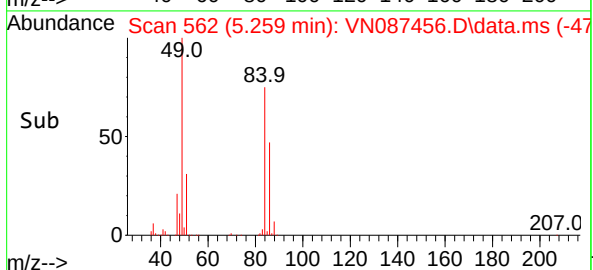
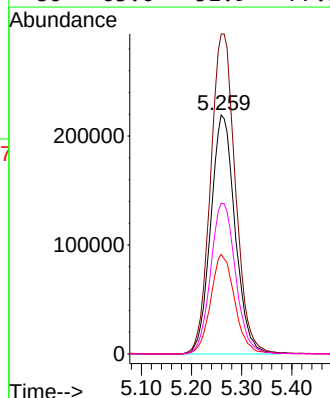
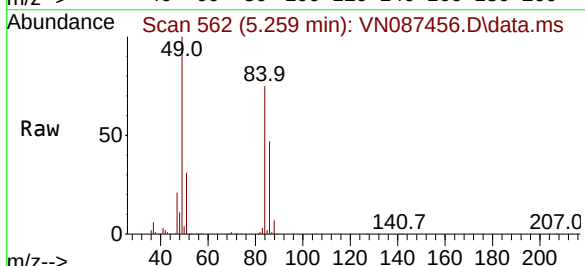
Ion Ratio Lower Upper

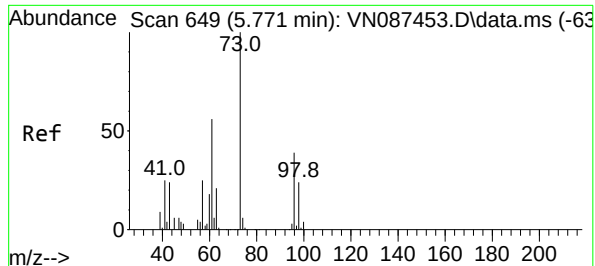
84 100

49 133.8 112.9 169.3

51 41.6 33.8 50.8

86 63.0 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 154.982 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.000 min

Lab File: VN087456.D

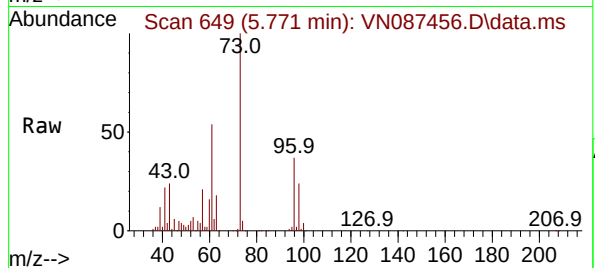
Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150



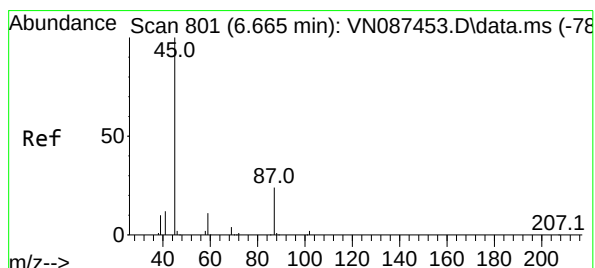
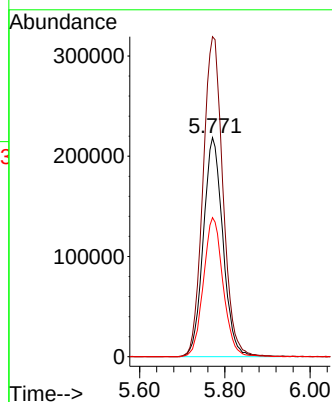
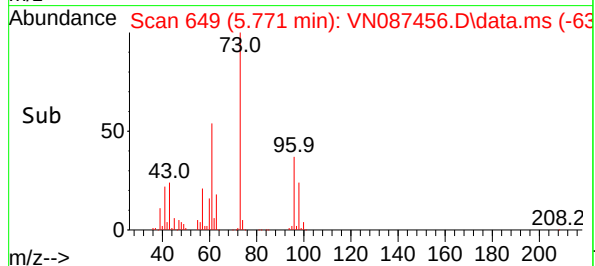
| Tgt Ion: | 96    | Resp: | 697274 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 145.9 | 114.2 | 171.4  |
| 98       | 63.5  | 48.7  | 73.1   |

## Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

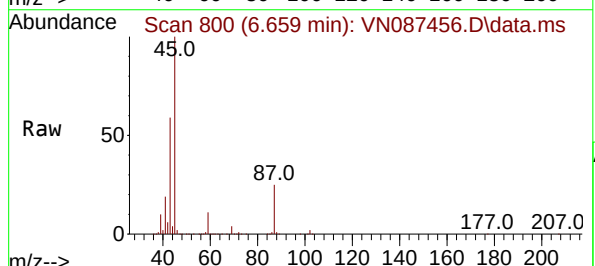
Concen: 156.466 ug/l

RT: 6.659 min Scan# 800

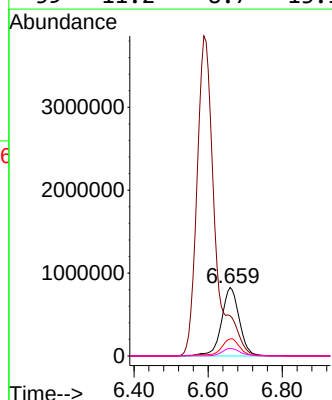
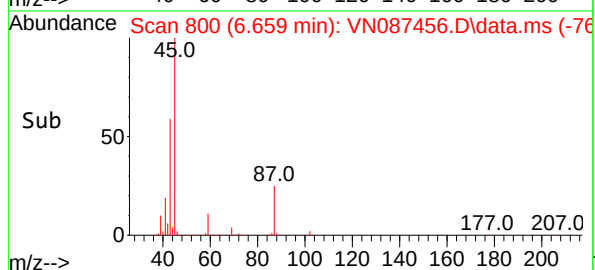
Delta R.T. -0.006 min

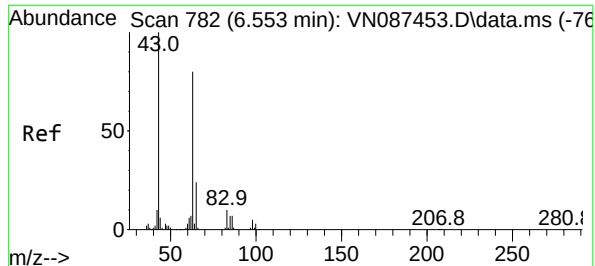
Lab File: VN087456.D

Acq: 05 Aug 2025 15:01



| Tgt Ion: | 45    | Resp: | 2747446 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 45       | 100   |       |         |
| 43       | 58.3  | 44.7  | 67.1    |
| 87       | 24.8  | 20.2  | 30.2    |
| 59       | 11.2  | 8.7   | 13.1    |





#21

1,1-Dichloroethane

Concen: 155.035 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 140781

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

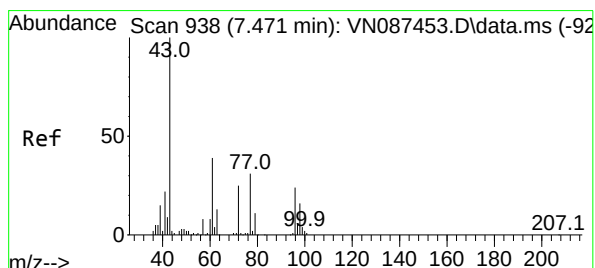
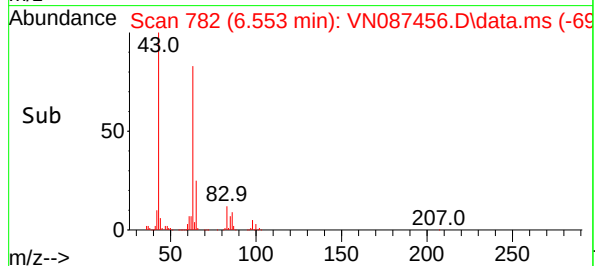
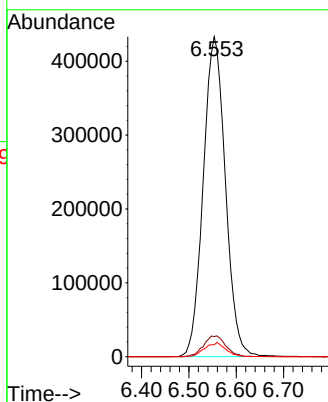
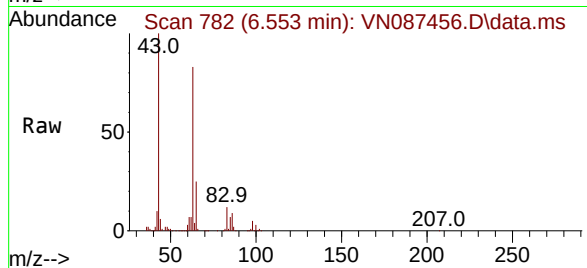
100 3.7 1.9 5.7

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 155.531 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

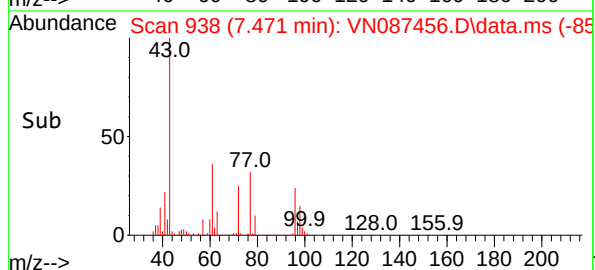
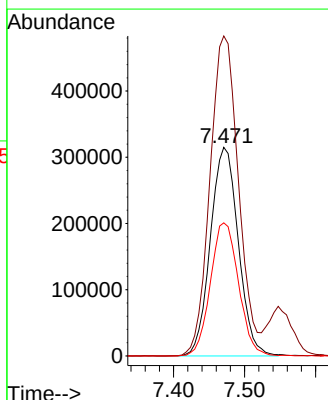
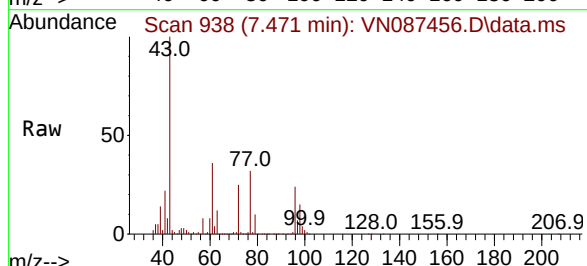
Tgt Ion: 96 Resp: 860976

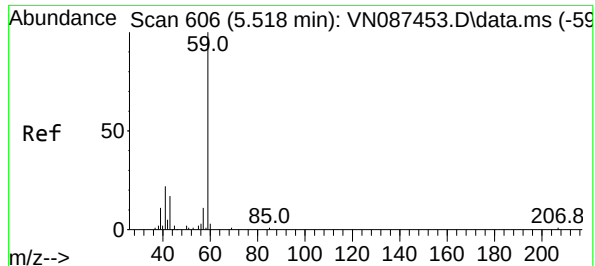
Ion Ratio Lower Upper

96 100

61 157.1 126.6 190.0

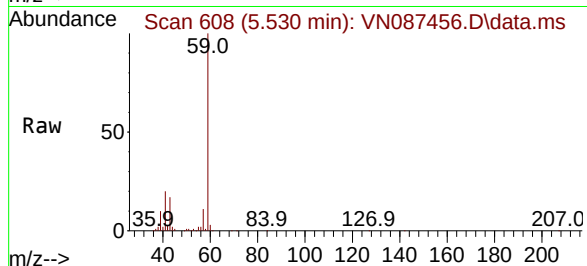
98 64.2 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 761.173 ug/l  
RT: 5.530 min Scan# 606  
Delta R.T. 0.012 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

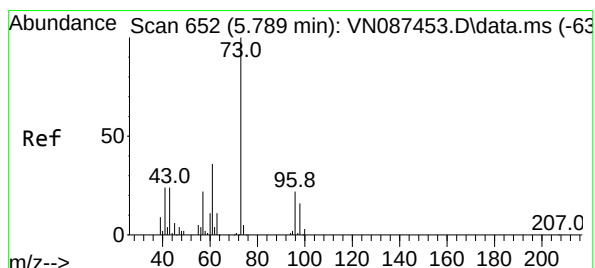
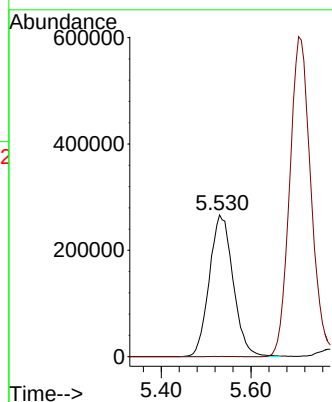
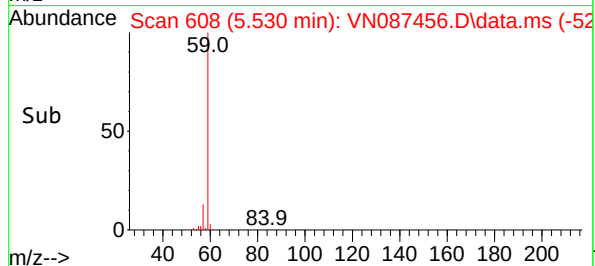
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 59 Resp: 986070  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0

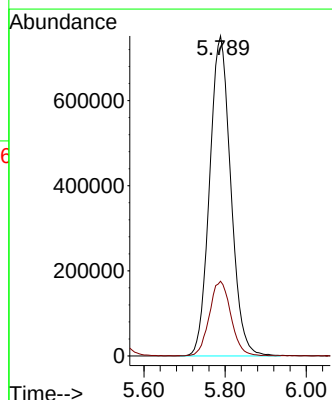
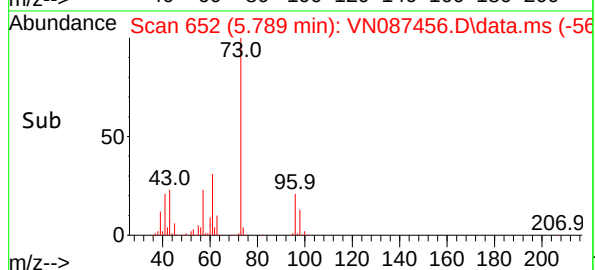
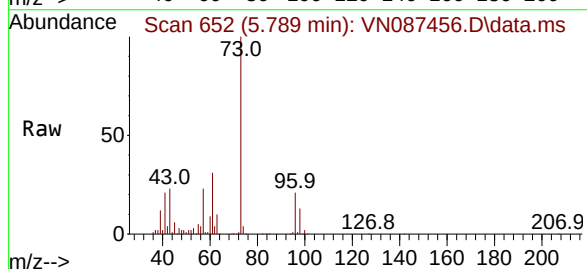
Manual Integrations  
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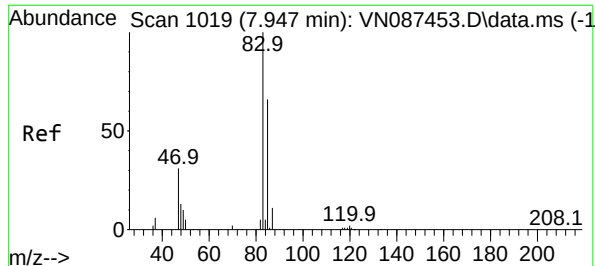
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#24  
Methyl tert-Butyl Ether  
Concen: 157.748 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 73 Resp: 2719481  
Ion Ratio Lower Upper  
73 100  
43 23.7 19.9 29.9





#25

Chloroform

Concen: 155.945 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 1478128

Ion Ratio Lower Upper

83 100

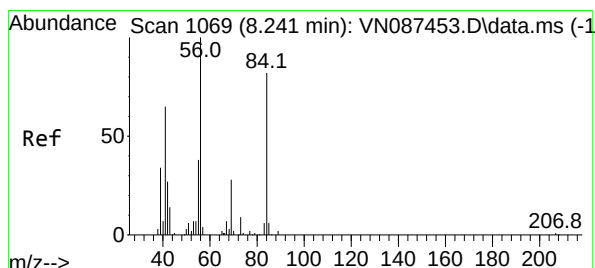
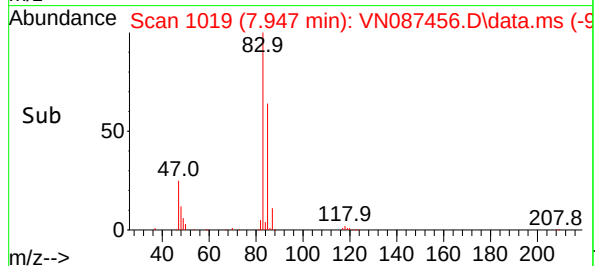
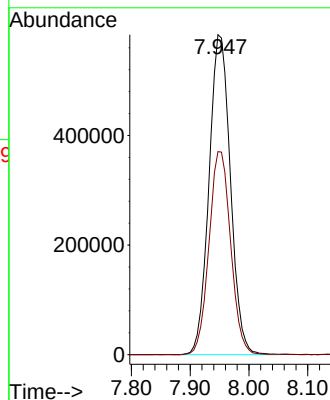
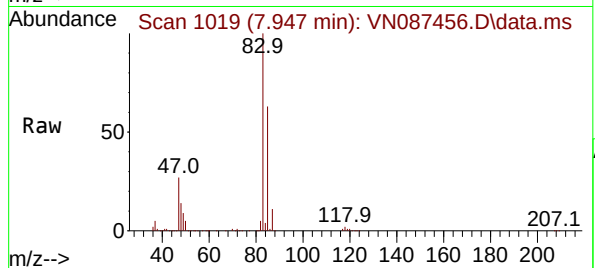
85 63.4 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 154.779 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

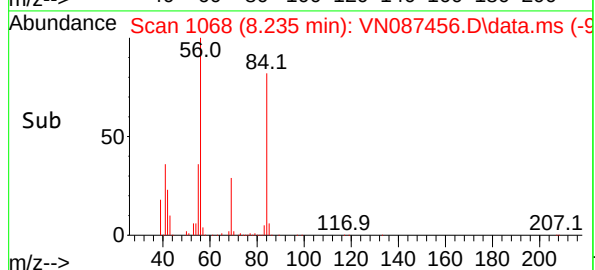
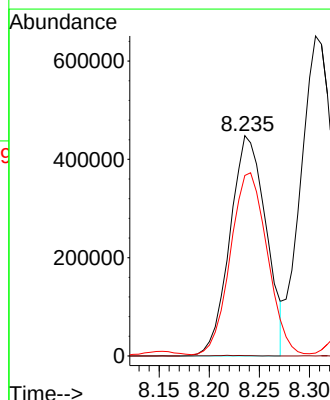
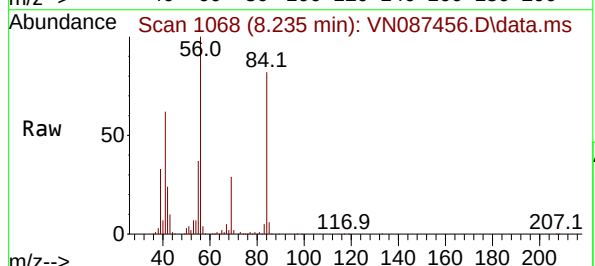
Tgt Ion: 56 Resp: 1125305

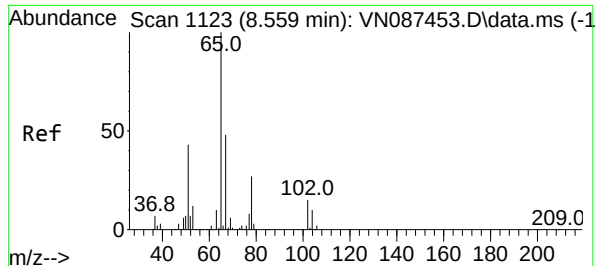
Ion Ratio Lower Upper

56 100

89 0.0 2.3 3.5#

84 85.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 29.770 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 189674

Ion Ratio Lower Upper

65 100

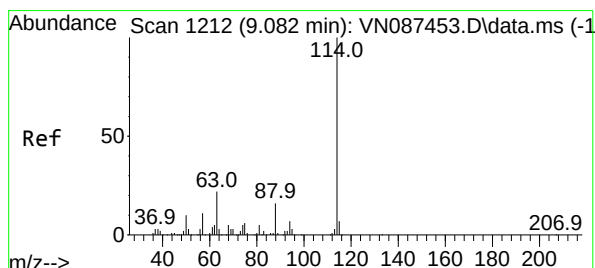
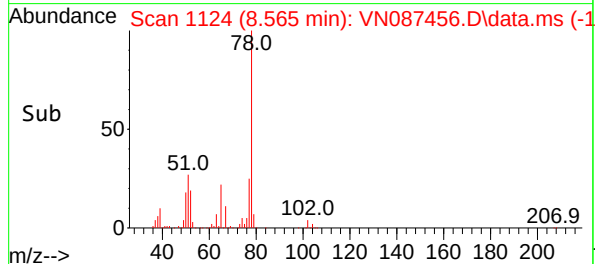
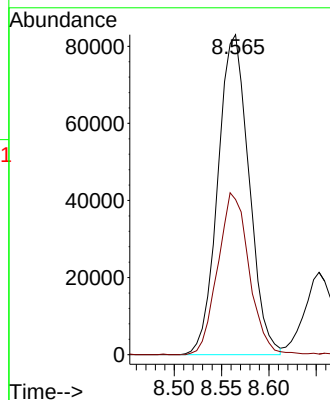
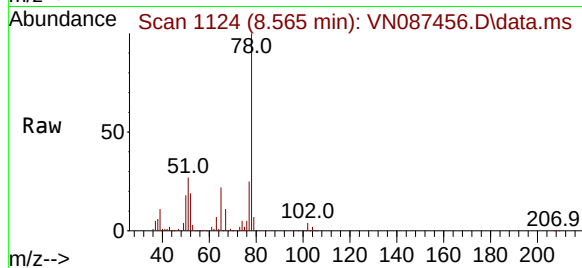
67 50.9 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

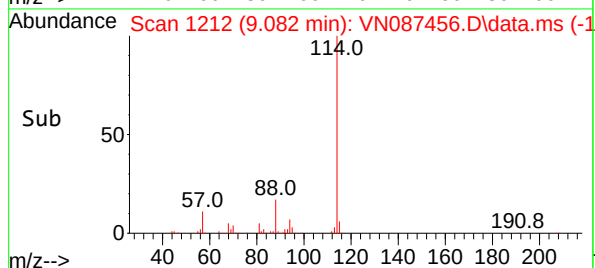
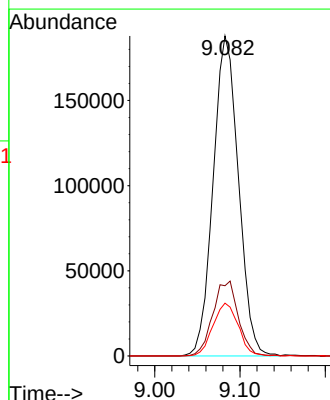
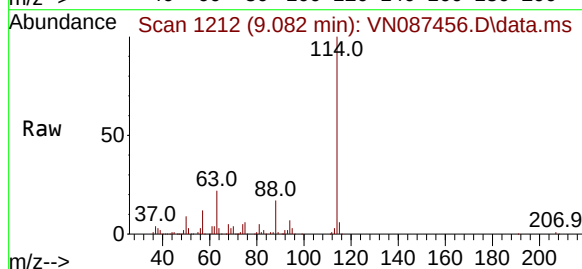
Tgt Ion:114 Resp: 387583

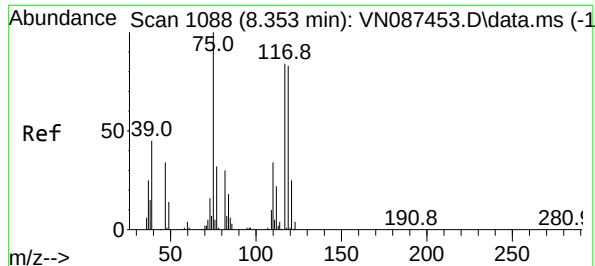
Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.5 13.1 19.7





#29

1,1-Dichloropropene

Concen: 152.623 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 964808

Ion Ratio Lower Upper

75 100

110 32.1 0.0 65.8

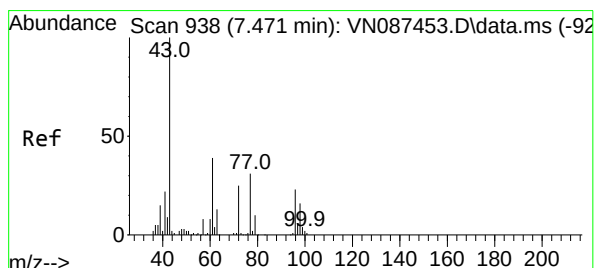
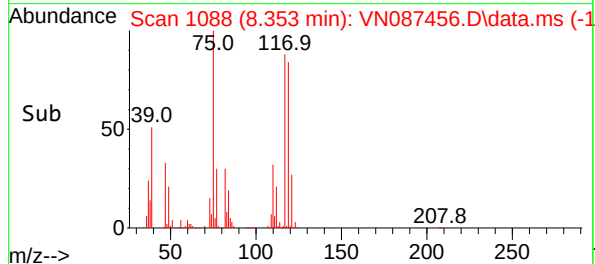
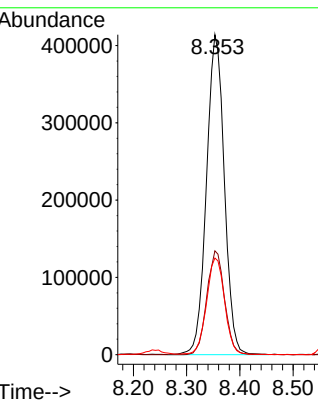
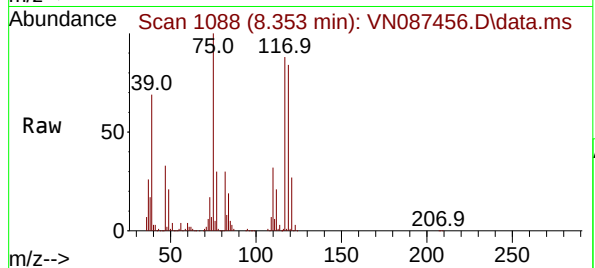
77 30.3 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 754.051 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

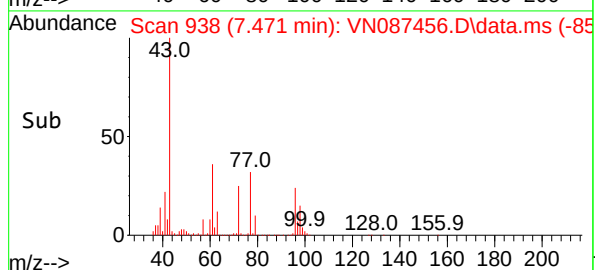
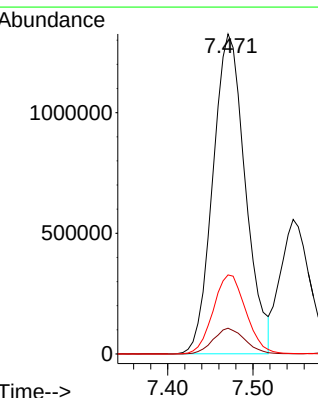
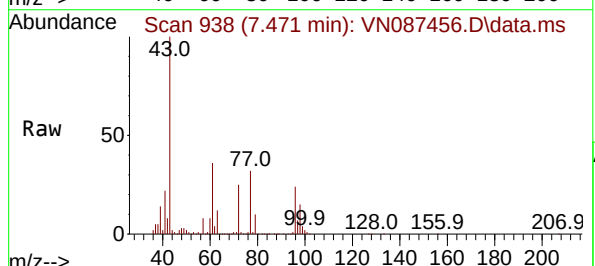
Tgt Ion: 43 Resp: 3513639

Ion Ratio Lower Upper

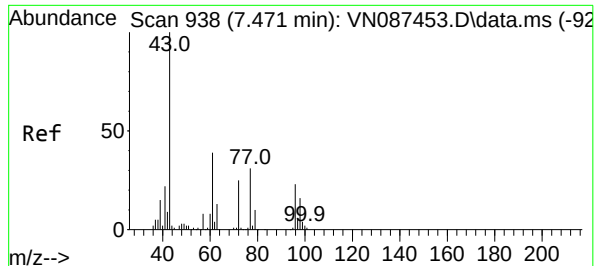
43 100

57 7.9 6.6 9.8

72 24.9 19.7 29.5

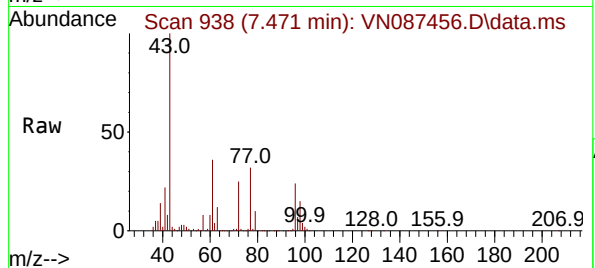






#31  
2,2-Dichloropropane  
Concen: 150.224 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

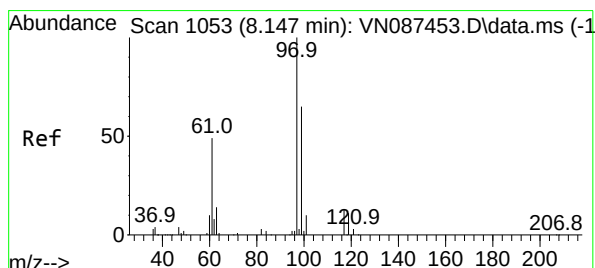
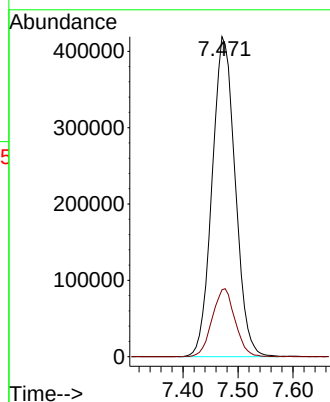
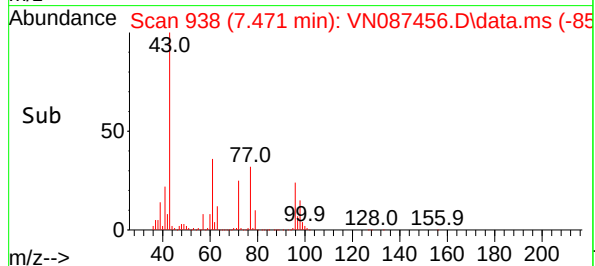
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 77 Resp: 122480  
Ion Ratio Lower Upper  
77 100  
97 21.0 16.7 25.1

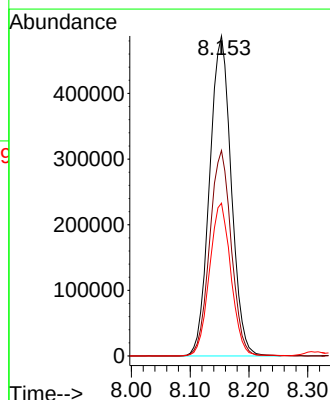
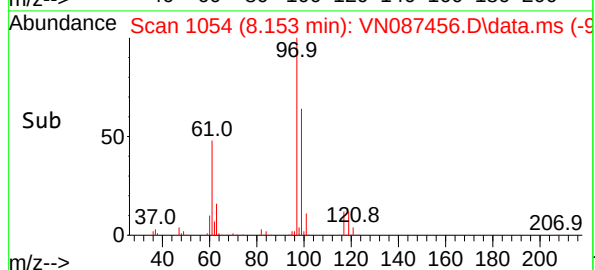
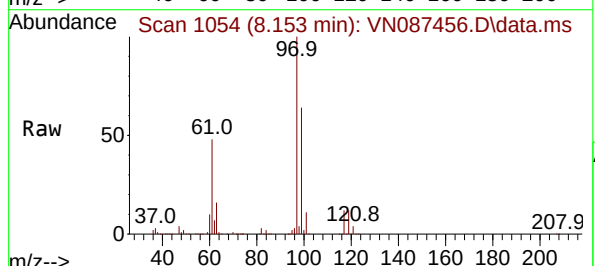
Manual Integrations  
APPROVED

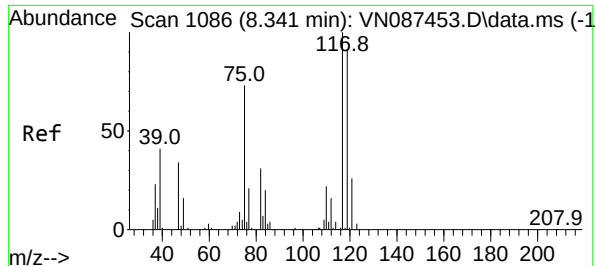
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 154.937 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

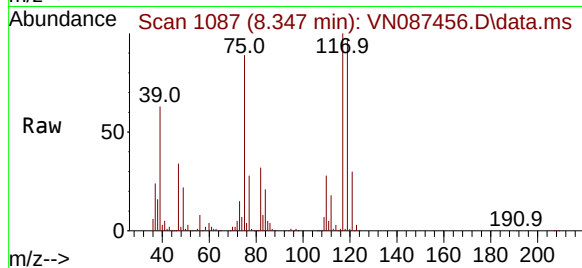
Tgt Ion: 97 Resp: 1249167  
Ion Ratio Lower Upper  
97 100  
99 64.0 53.0 79.6  
61 47.3 40.6 61.0





#33  
Carbon Tetrachloride  
Concen: 154.768 ug/l  
RT: 8.347 min Scan# 1086  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

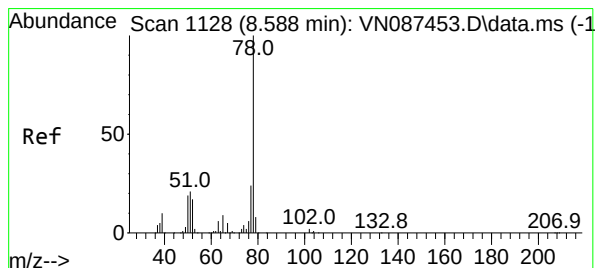
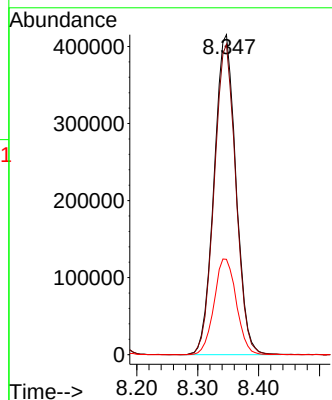
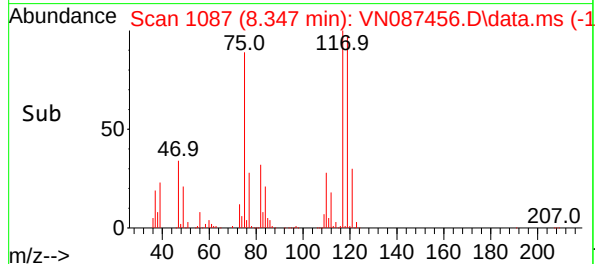
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion: 117 Resp: 1036608  
Ion Ratio Lower Upper  
117 100  
119 97.0 73.4 110.0  
121 29.8 21.1 31.7

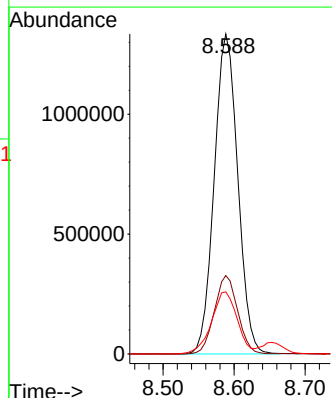
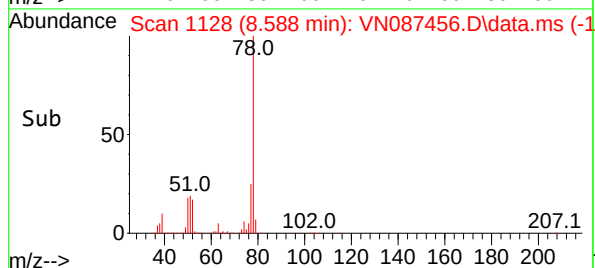
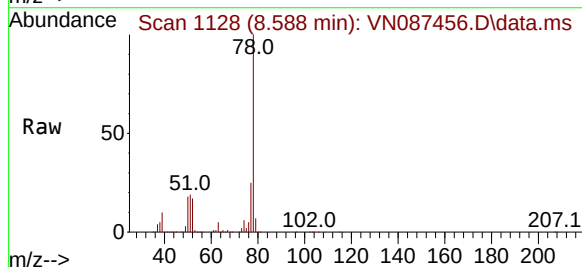
Manual Integrations  
APPROVED

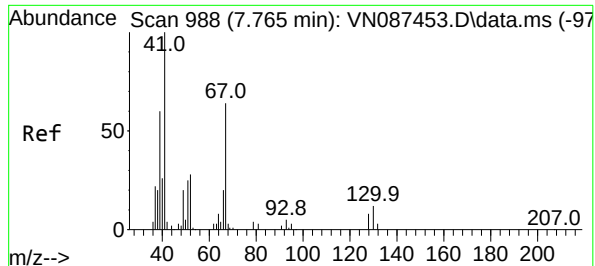
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#34  
Benzene  
Concen: 153.850 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

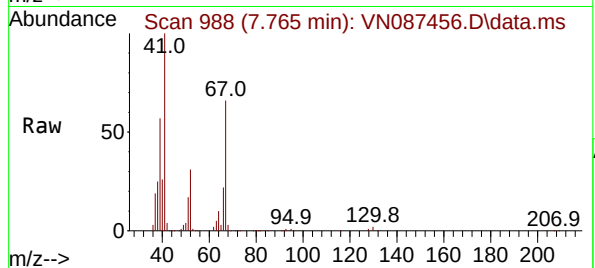
Tgt Ion: 78 Resp: 3070072  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 19.3 16.9 25.3





#35  
Methacrylonitrile  
Concen: 147.778 ug/l  
RT: 7.765 min Scan# 988  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

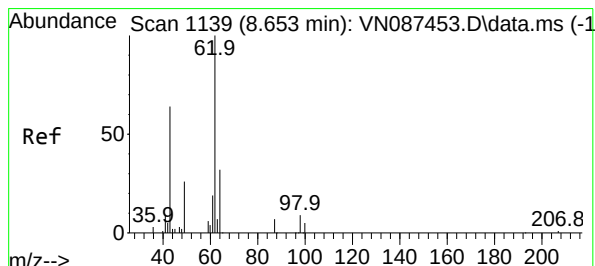
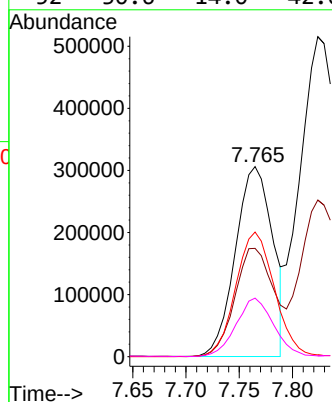
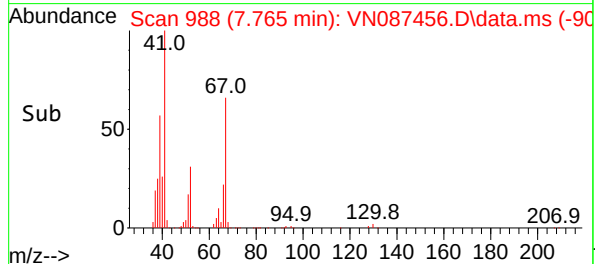
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 41 Resp: 743083  
Ion Ratio Lower Upper  
41 100  
39 57.0 30.1 90.5  
67 65.6 32.0 96.2  
52 30.6 14.0 42.0

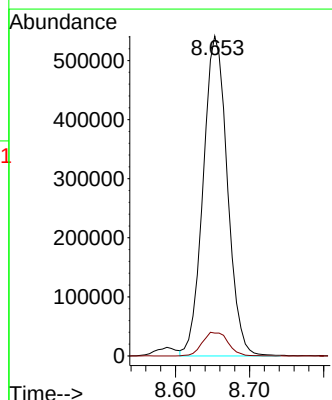
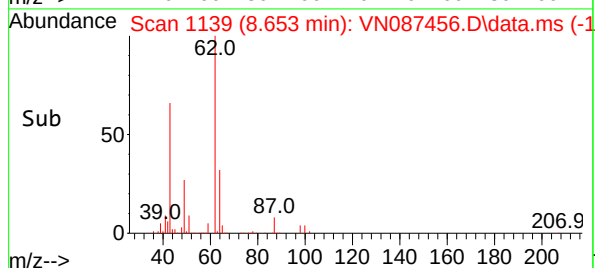
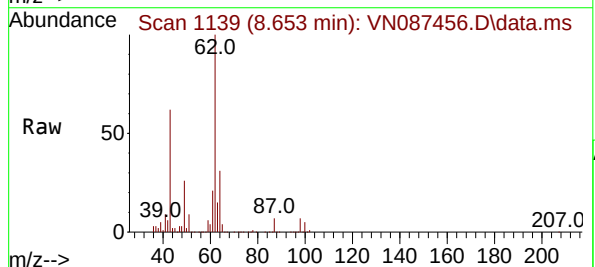
Manual Integrations  
APPROVED

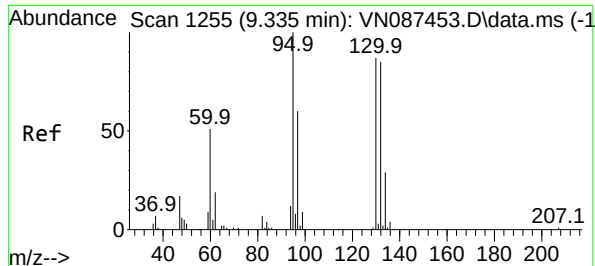
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#36  
1,2-Dichloroethane  
Concen: 152.417 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

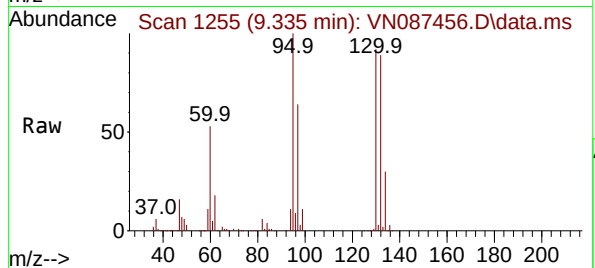
Tgt Ion: 62 Resp: 1229451  
Ion Ratio Lower Upper  
62 100  
98 7.9 6.6 9.8





#37  
Trichloroethene  
Concen: 152.738 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

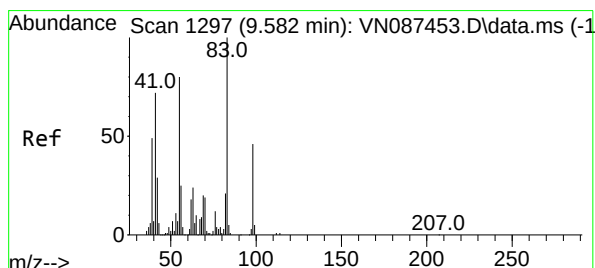
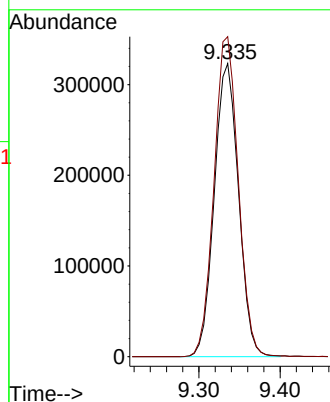
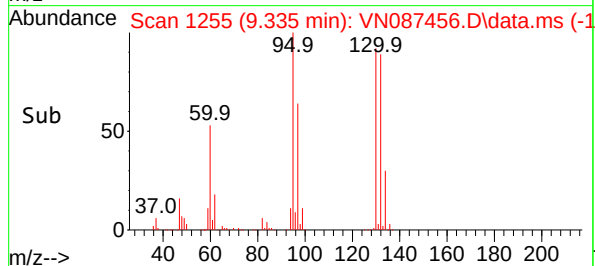
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:130 Resp: 671378  
Ion Ratio Lower Upper  
130 100  
95 109.1 91.4 137.2

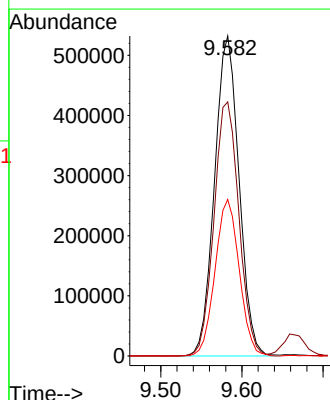
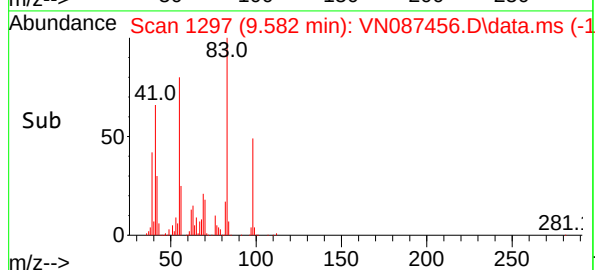
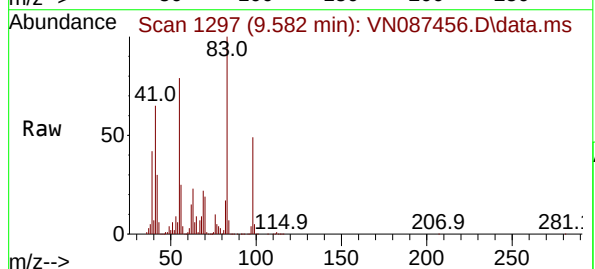
Manual Integrations  
APPROVED

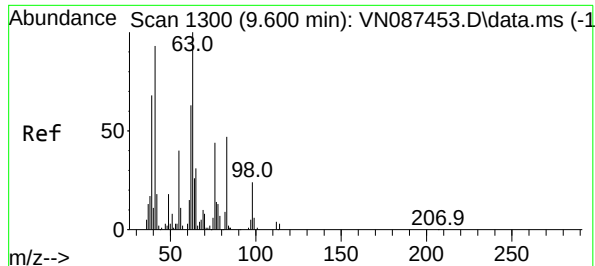
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#38  
Methylcyclohexane  
Concen: 152.053 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 83 Resp: 1115098  
Ion Ratio Lower Upper  
83 100  
55 80.9 41.2 123.6  
98 48.3 23.3 69.9





#39

1,2-Dichloropropane

Concen: 151.562 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 775438

Ion Ratio Lower Upper

63 100

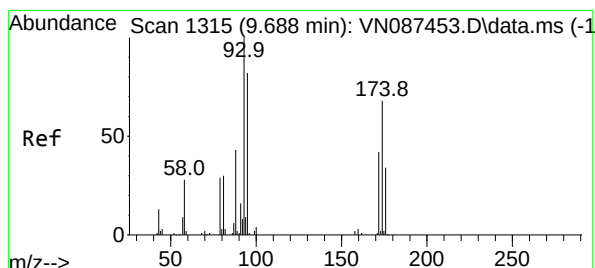
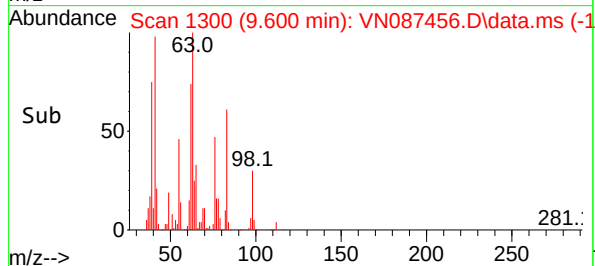
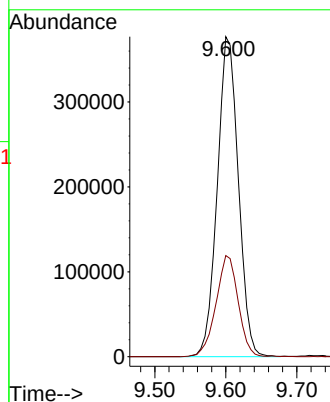
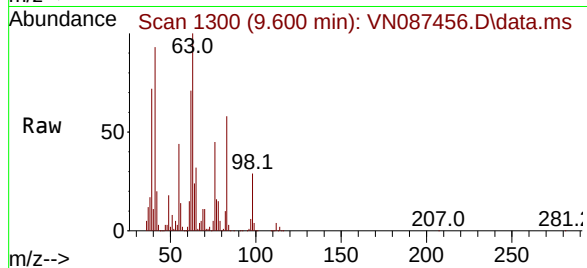
65 31.6 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 152.708 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

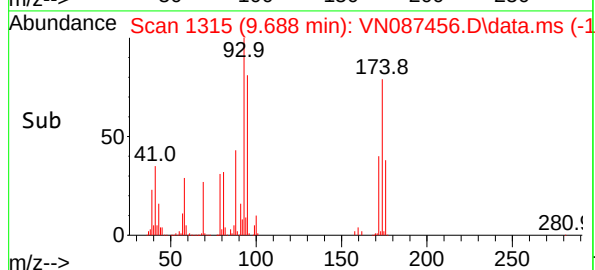
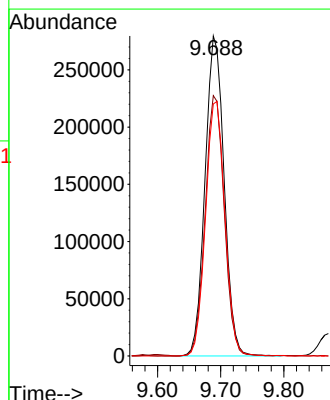
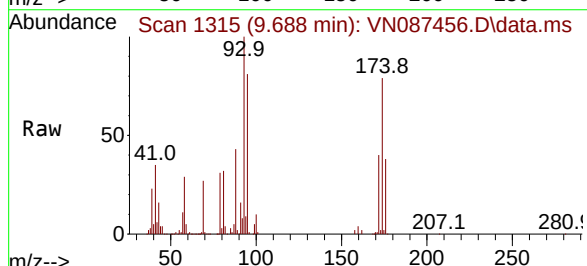
Tgt Ion: 93 Resp: 586203

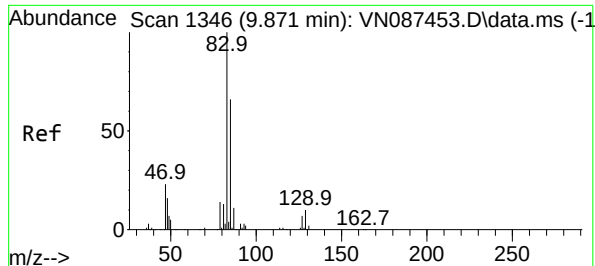
Ion Ratio Lower Upper

93 100

95 81.8 0.0 161.6

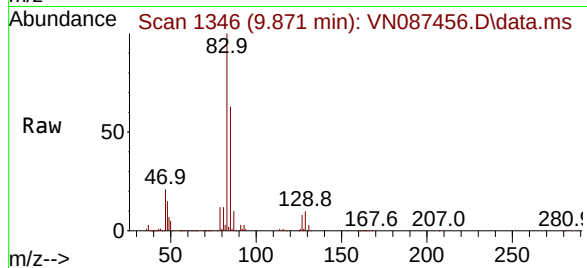
174 80.6 0.0 151.4





#41  
Bromodichloromethane  
Concen: 154.020 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

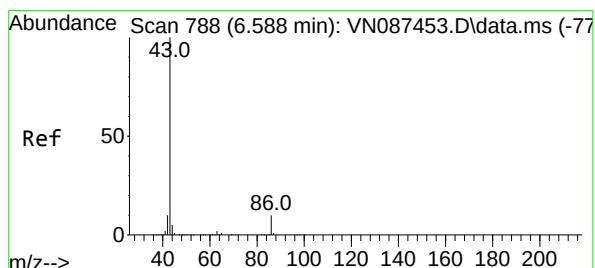
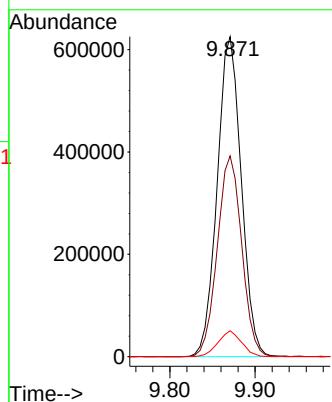
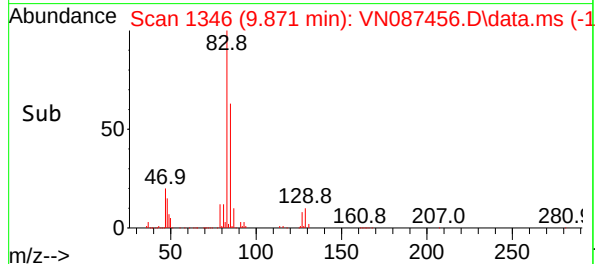
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 83 Resp: 122856  
Ion Ratio Lower Upper  
83 100  
85 62.7 52.9 79.3  
127 8.1 5.8 8.6

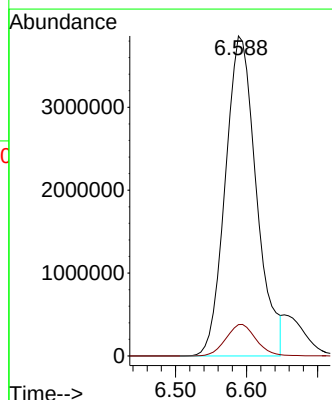
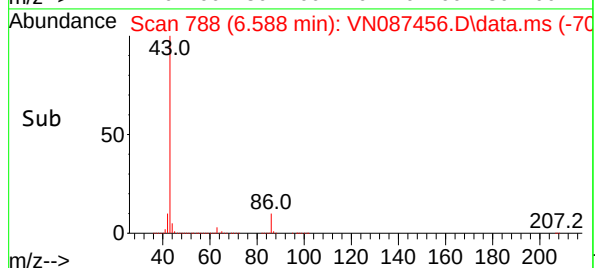
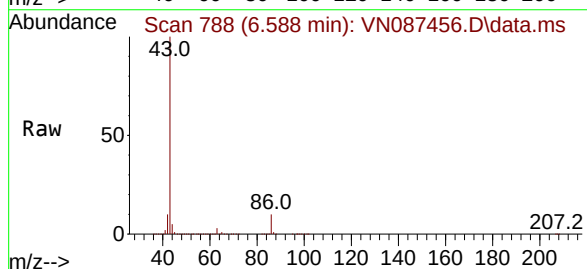
Manual Integrations  
APPROVED

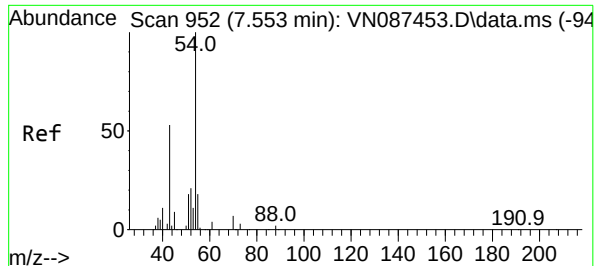
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 765.203 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp:11742175  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.3 10.9





#43

Ethyl Acetate

Concen: 156.385 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 138713

Ion Ratio Lower Upper

43 100

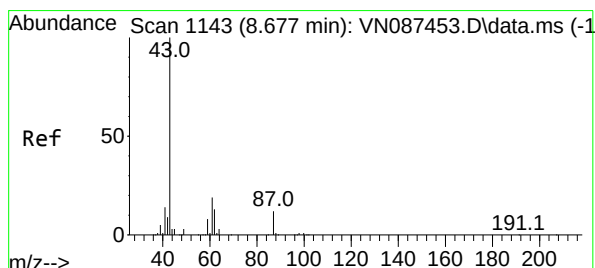
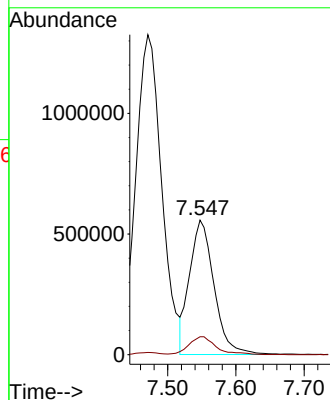
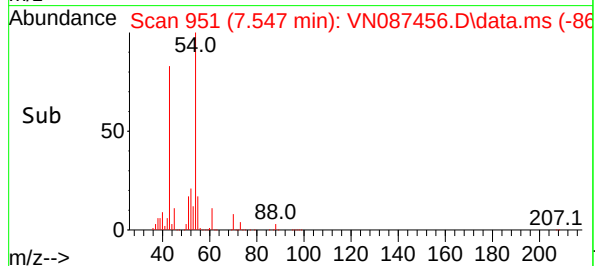
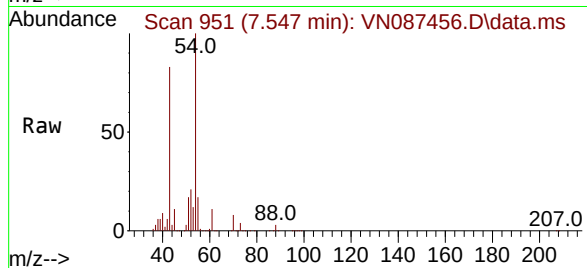
45 14.7 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 152.869 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087456.D

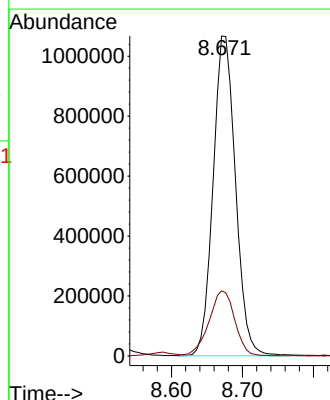
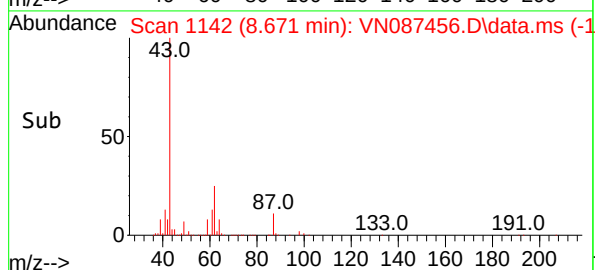
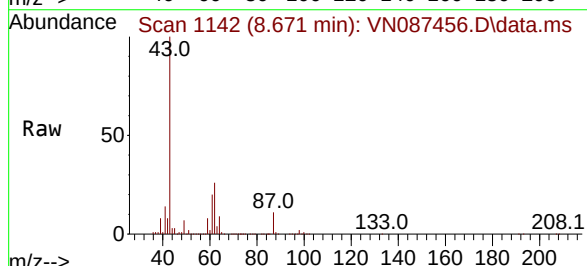
Acq: 05 Aug 2025 15:01

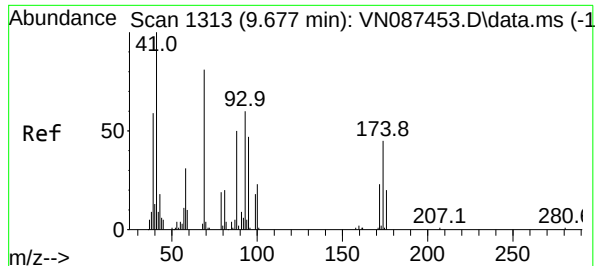
Tgt Ion: 43 Resp: 2332673

Ion Ratio Lower Upper

43 100

61 23.6 18.6 28.0





#45

1,4-Dioxane

Concen: 3019.679 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 29374

Ion Ratio Lower Upper

88 100

43 23.1 24.1 36.1

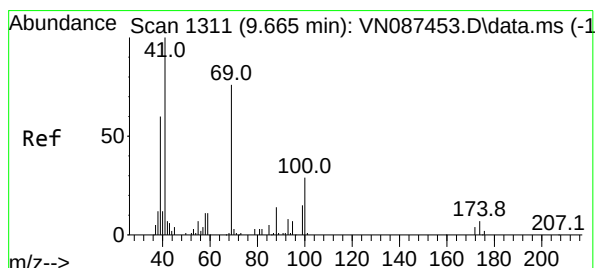
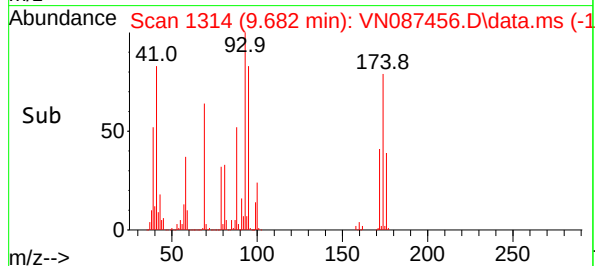
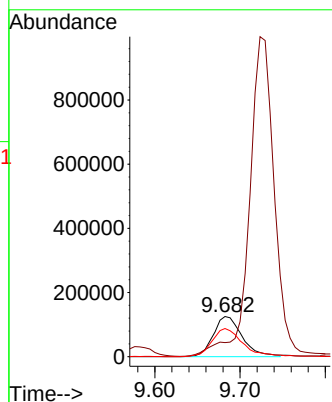
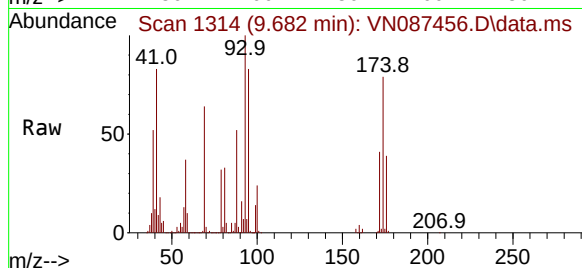
58 75.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 157.486 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

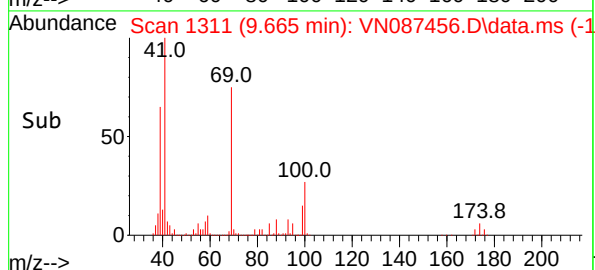
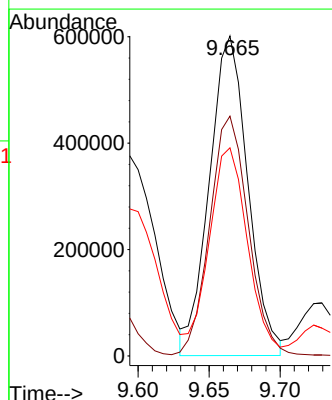
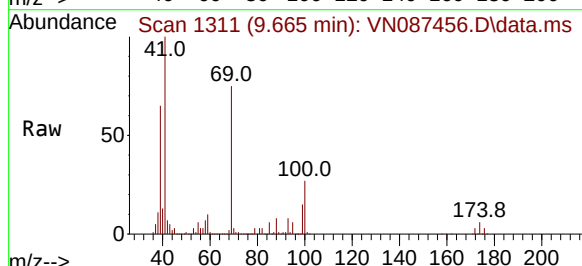
Tgt Ion: 41 Resp: 1134360

Ion Ratio Lower Upper

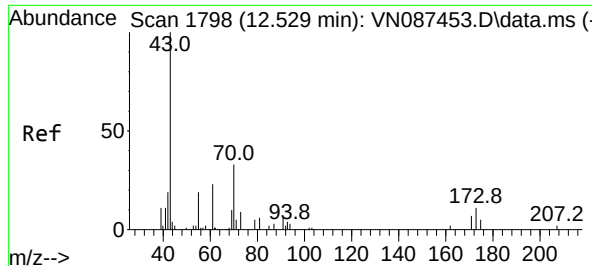
41 100

69 77.5 37.1 111.5

39 65.4 30.7 92.1







#47

n-amy1 Acetate

Concen: 207.839 ug/l

RT: 12.482 min Scan# 1798

Delta R.T. -0.047 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1594700

Ion Ratio Lower Upper

43 100

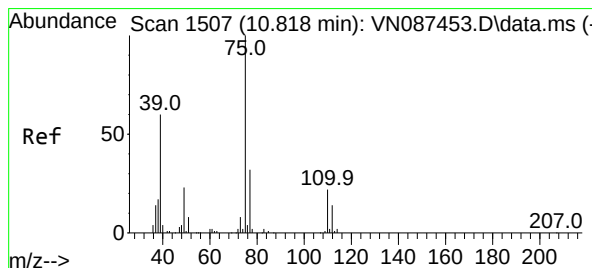
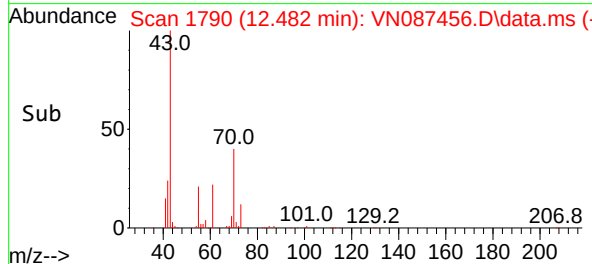
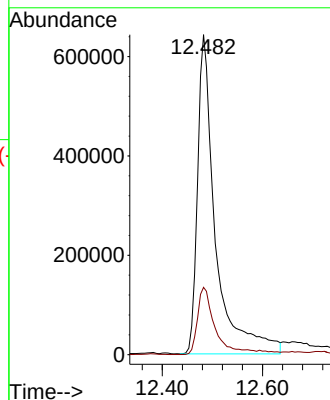
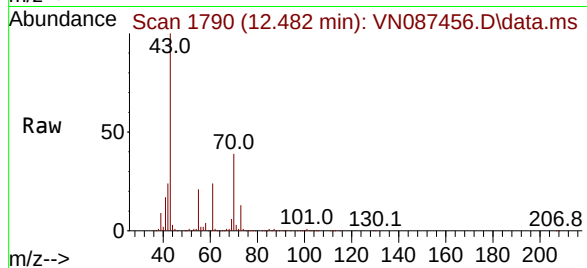
55 19.6 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 156.815 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087456.D

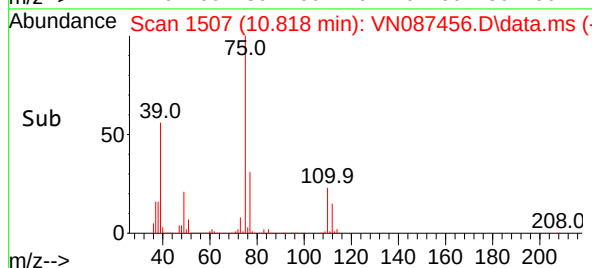
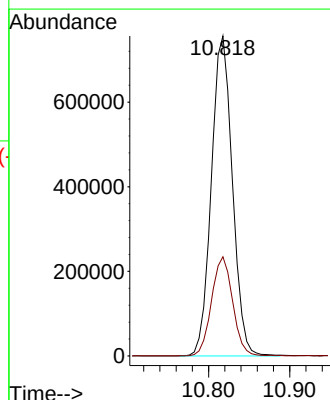
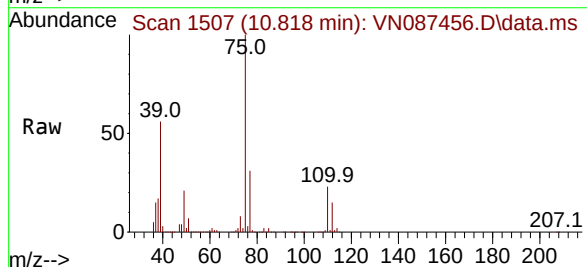
Acq: 05 Aug 2025 15:01

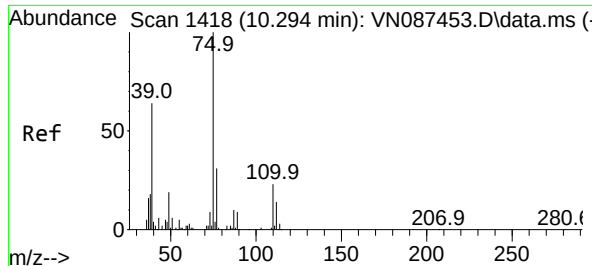
Tgt Ion: 75 Resp: 1360863

Ion Ratio Lower Upper

75 100

77 30.9 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 156.195 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. -0.000 min

Lab File: VN087456.D

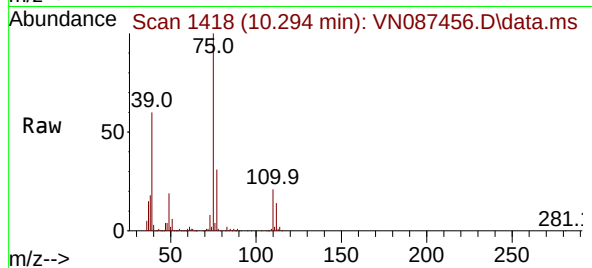
Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150



Tgt Ion: 75 Resp: 1364130

Ion Ratio Lower Upper

75 100

77 31.3 24.6 36.8

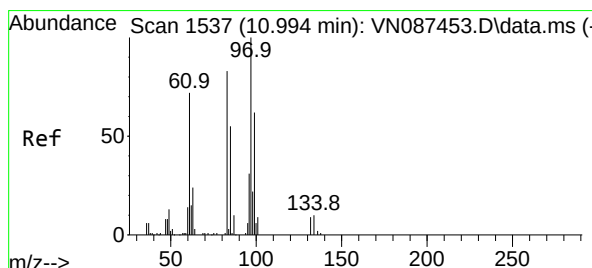
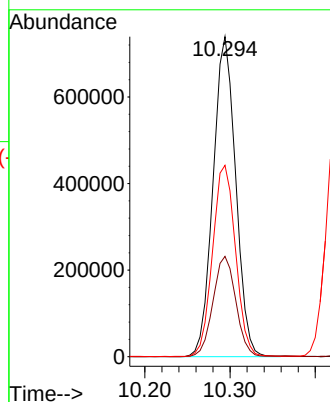
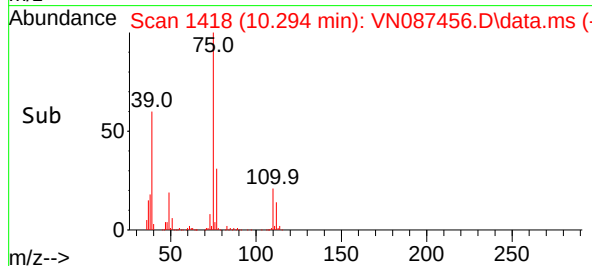
39 59.7 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 154.919 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 97 Resp: 751367

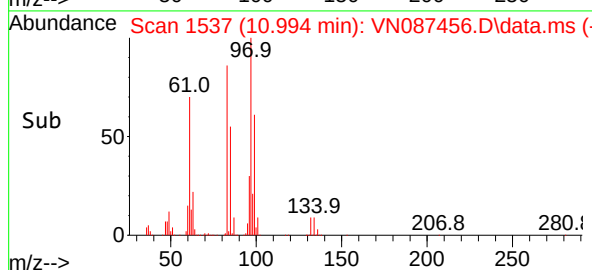
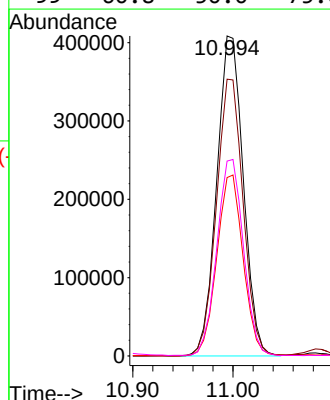
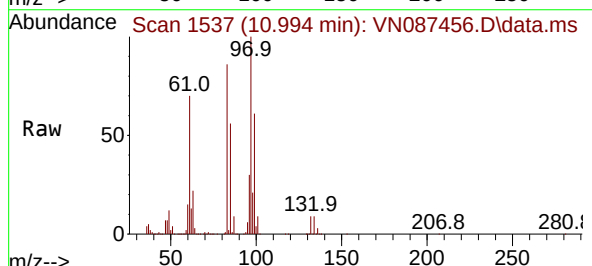
Ion Ratio Lower Upper

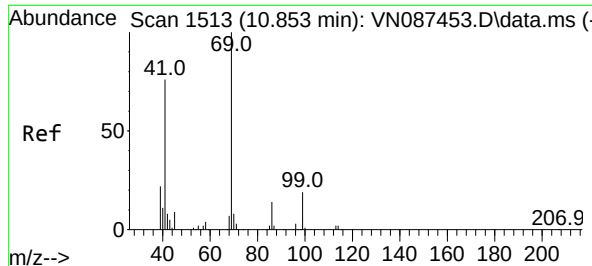
97 100

83 86.5 66.2 99.2

85 55.7 43.9 65.9

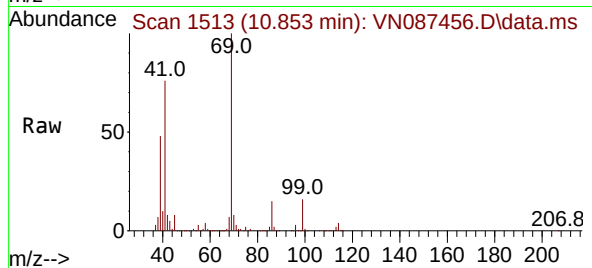
99 60.8 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 162.554 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

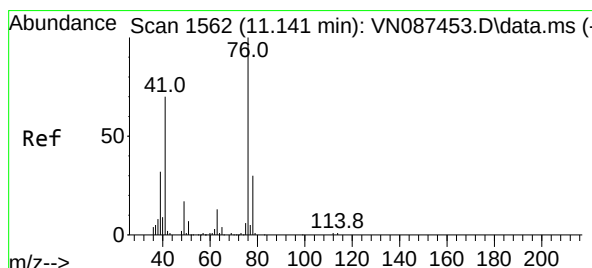
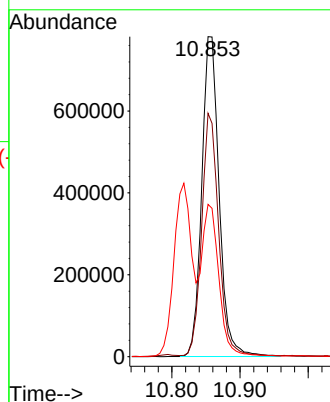
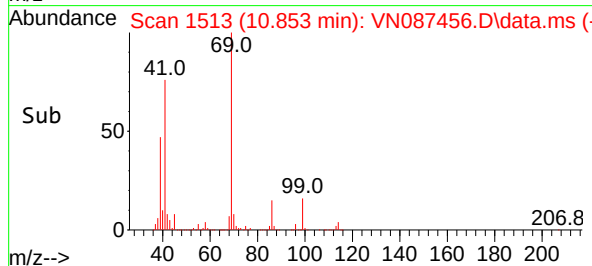
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion: 69 Resp: 138848  
Ion Ratio Lower Upper  
69 100  
41 75.8 38.0 114.1  
39 47.4 23.2 69.5

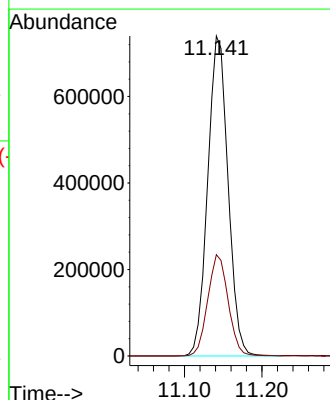
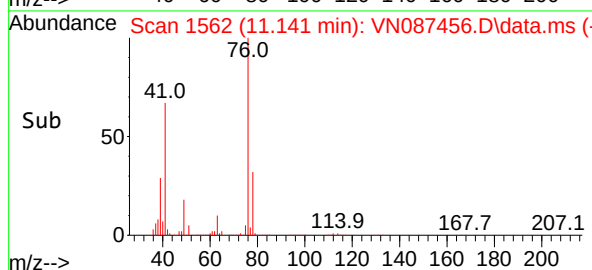
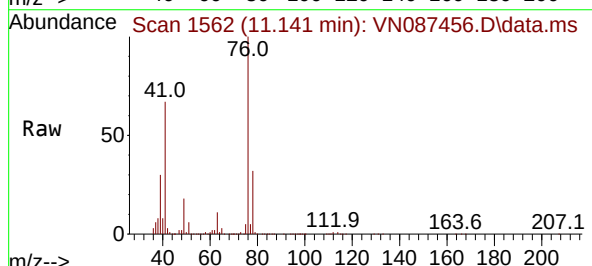
Manual Integrations  
APPROVED

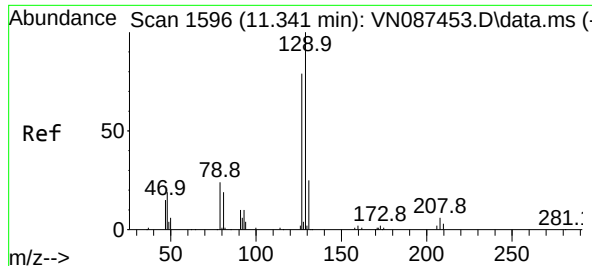
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#52  
1,3-Dichloropropane  
Concen: 154.396 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

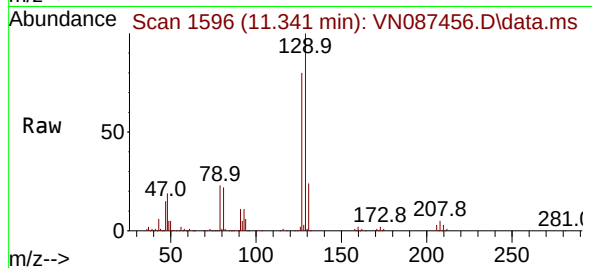
Tgt Ion: 76 Resp: 1349103  
Ion Ratio Lower Upper  
76 100  
78 31.8 0.0 63.0





#53  
Dibromochloromethane  
Concen: 159.011 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

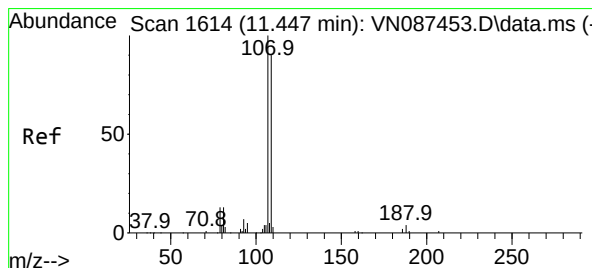
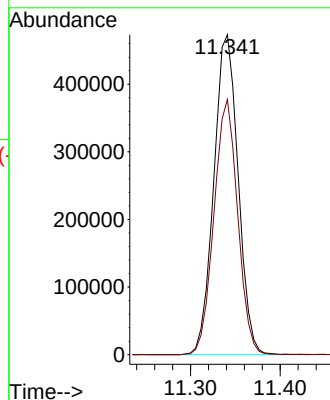
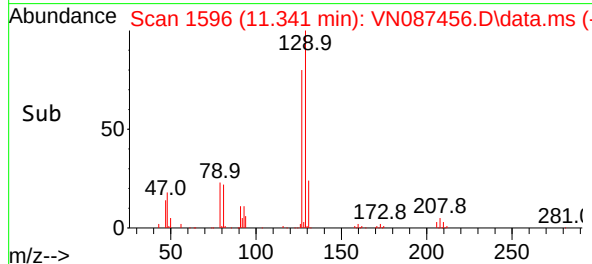
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:129 Resp: 890658  
Ion Ratio Lower Upper  
129 100  
127 77.7 39.1 117.3

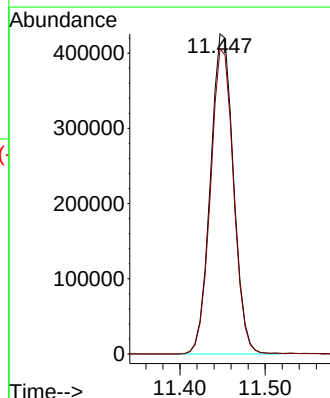
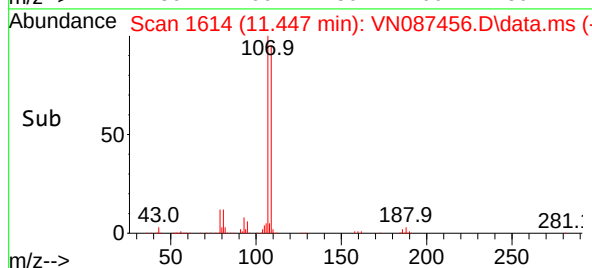
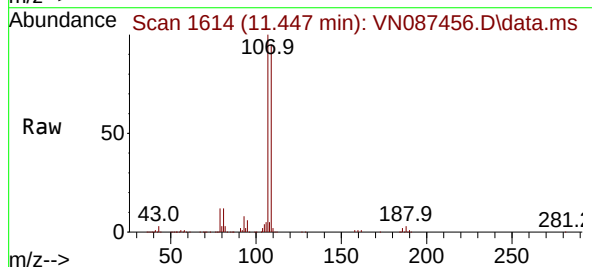
Manual Integrations  
APPROVED

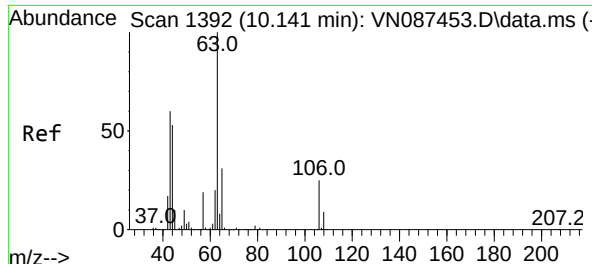
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#54  
1,2-Dibromoethane  
Concen: 155.619 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:107 Resp: 801234  
Ion Ratio Lower Upper  
107 100  
109 94.8 74.2 111.4





#55

2-Chloroethyl vinyl ether

Concen: 761.062 ug/l

RT: 10.141 min Scan# 1392

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 3422234

Ion Ratio Lower Upper

63 100

65 32.1 25.7 38.5

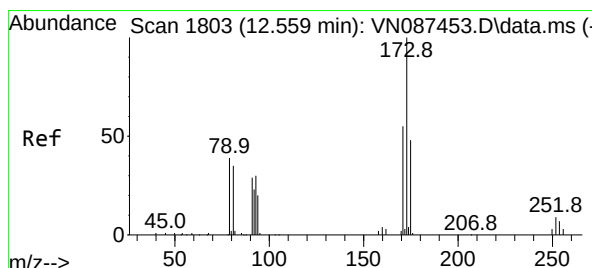
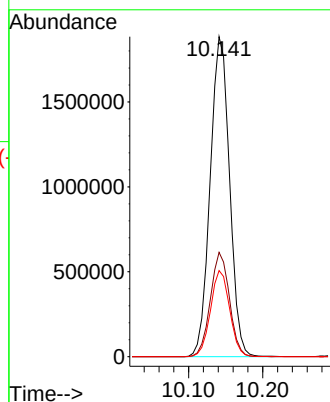
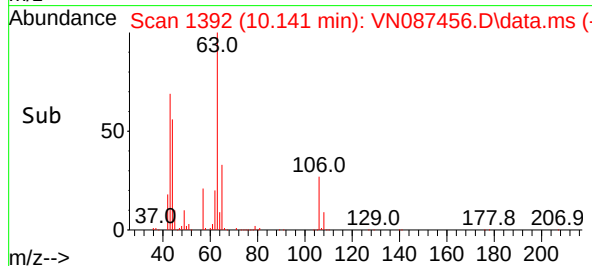
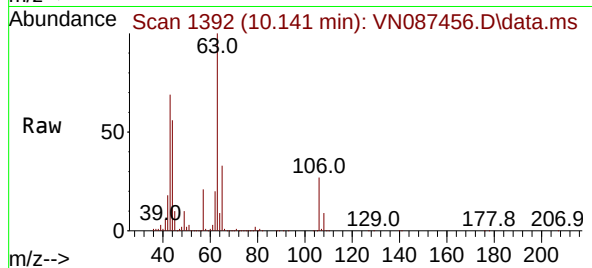
106 26.6 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#56

Bromoform

Concen: 163.094 ug/l

RT: 12.559 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

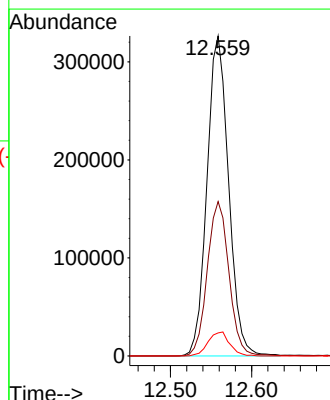
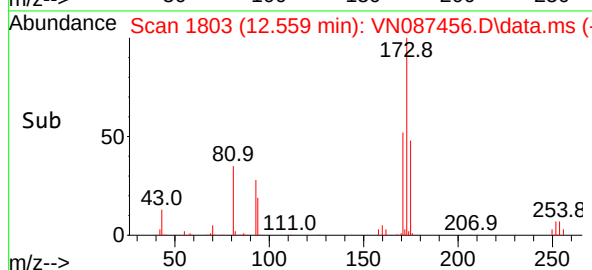
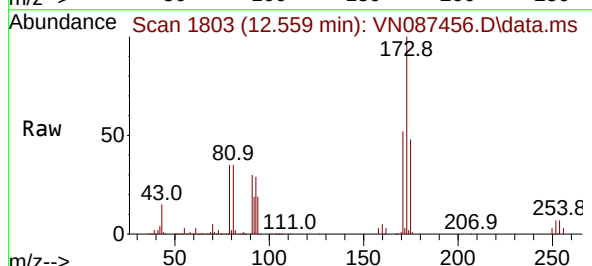
Tgt Ion:173 Resp: 604236

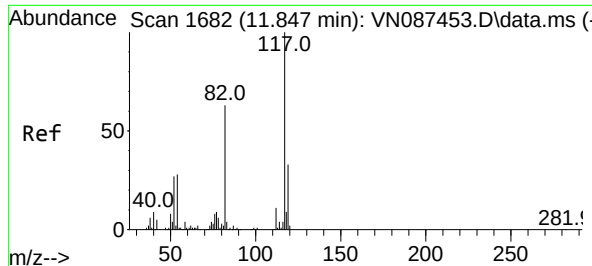
Ion Ratio Lower Upper

173 100

175 48.3 38.8 58.2

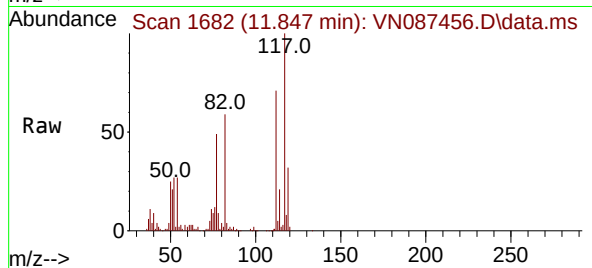
254 7.5 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1182  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

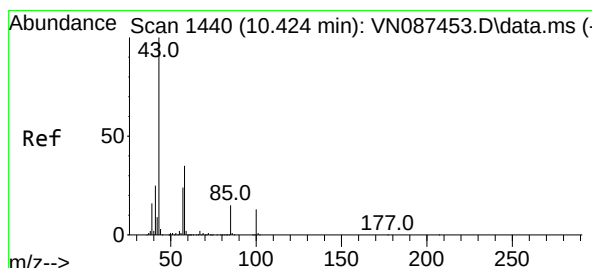
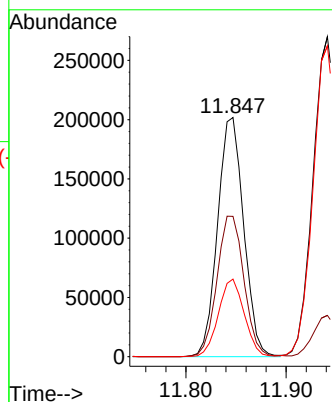
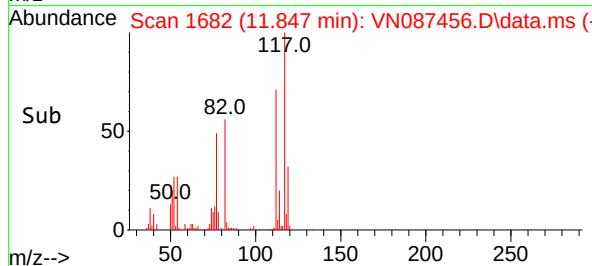
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion: 117 Resp: 36455  
Ion Ratio Lower Upper  
117 100  
82 60.7 49.2 73.8  
119 32.1 25.7 38.5

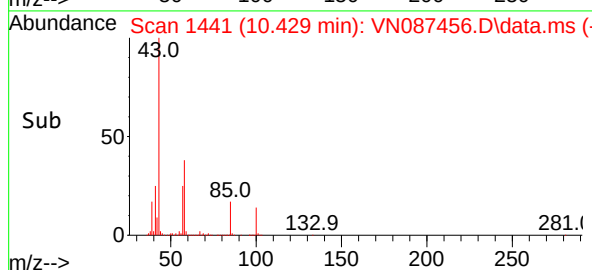
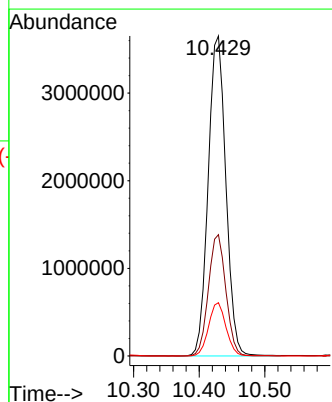
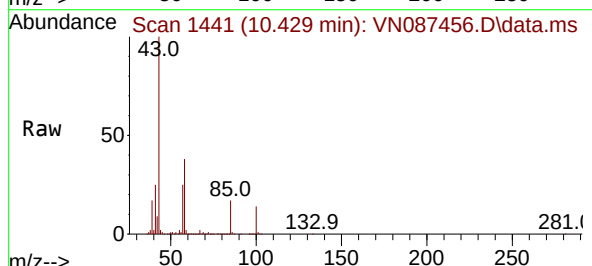
Manual Integrations  
APPROVED

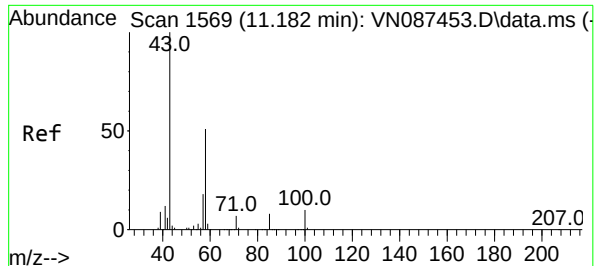
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 729.674 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

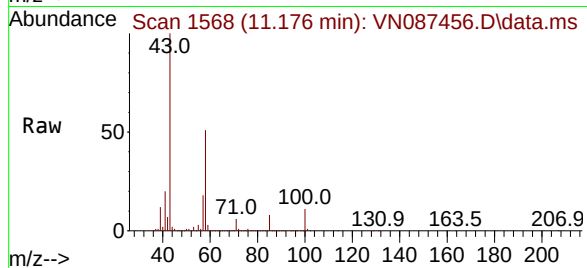
Tgt Ion: 43 Resp: 6842960  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.0 43.6  
85 16.5 12.7 19.1





#59  
2-Hexanone  
Concen: 780.064 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

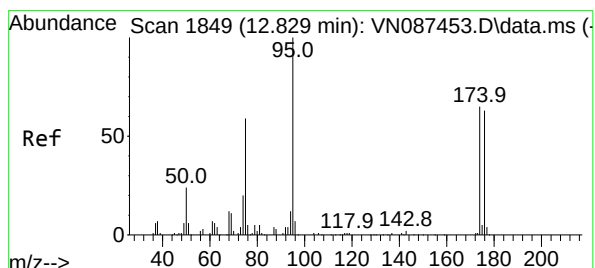
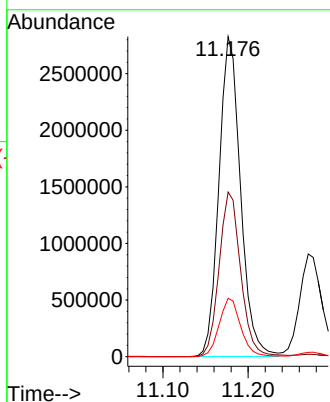
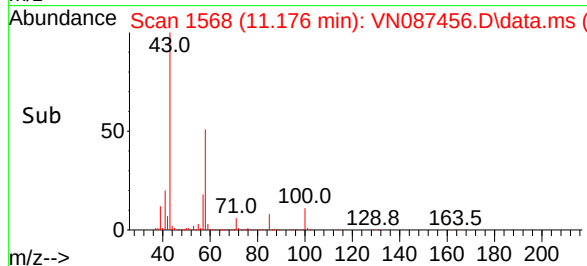
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion: 43 Resp: 497055  
Ion Ratio Lower Upper  
43 100  
58 51.6 41.0 61.6  
57 18.2 14.6 21.8

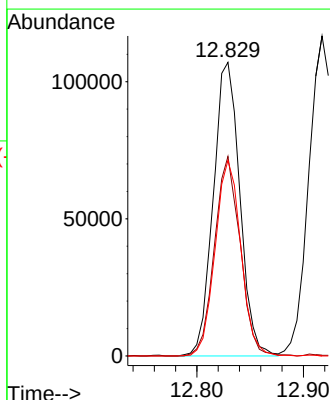
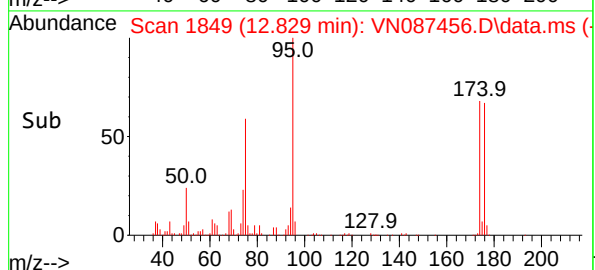
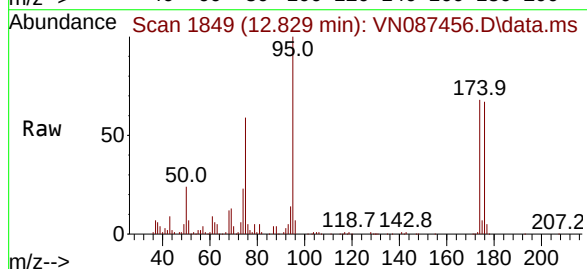
Manual Integrations  
APPROVED

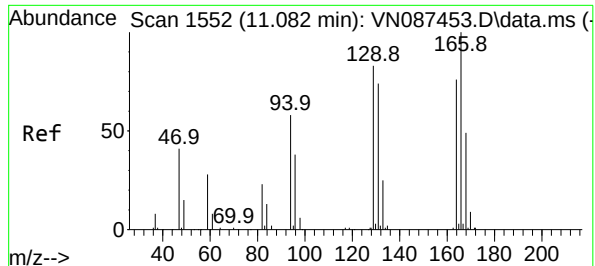
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#60  
4-Bromofluorobenzene  
Concen: 29.518 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

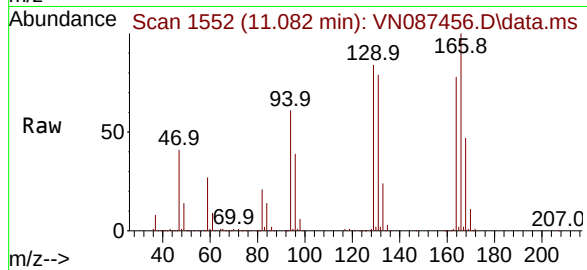
Tgt Ion: 95 Resp: 185190  
Ion Ratio Lower Upper  
95 100  
174 65.4 52.3 78.5  
176 64.2 49.8 74.8





#61  
Tetrachloroethene  
Concen: 148.447 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

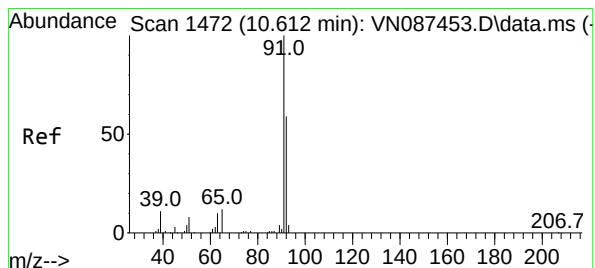
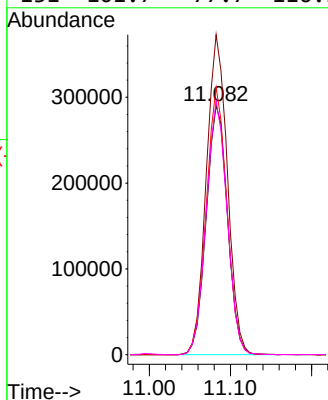
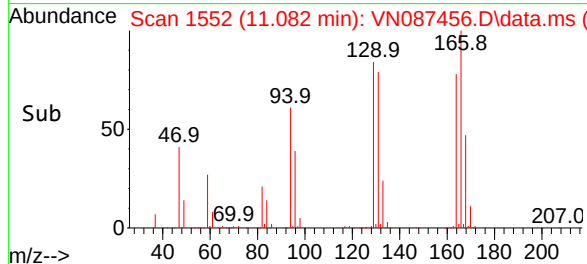
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



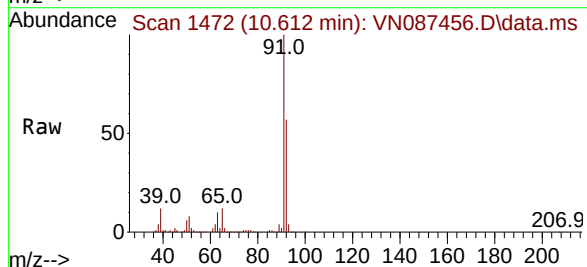
Tgt Ion:164 Resp: 52723  
Ion Ratio Lower Upper  
164 100  
166 128.4 105.4 158.0  
129 107.2 87.7 131.5  
131 101.7 77.7 116.5

Manual Integrations  
APPROVED

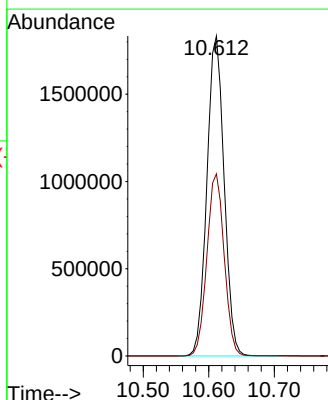
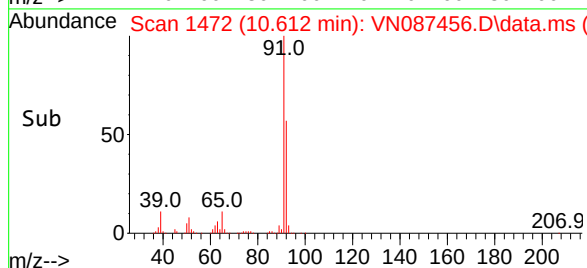
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



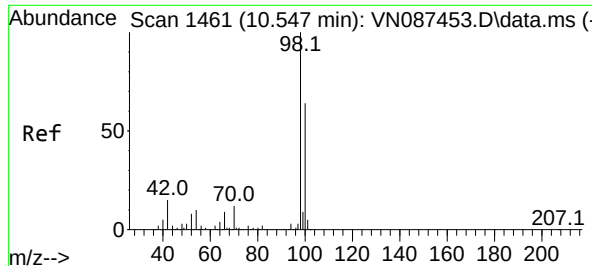
#62  
Toluene  
Concen: 148.669 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01



Tgt Ion: 91 Resp: 3345117  
Ion Ratio Lower Upper  
91 100  
92 57.1 45.8 68.6

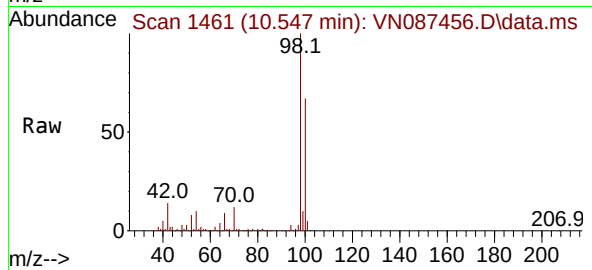






#63  
Toluene-d8  
Concen: 29.029 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

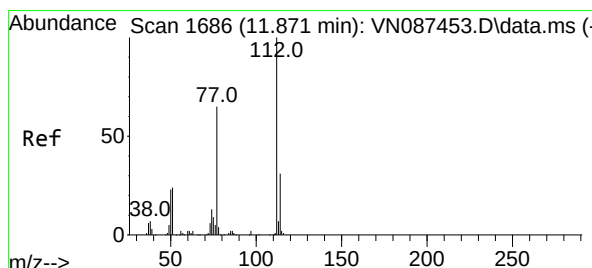
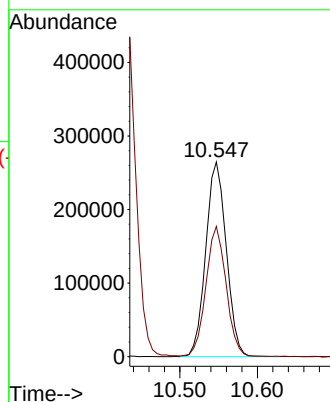
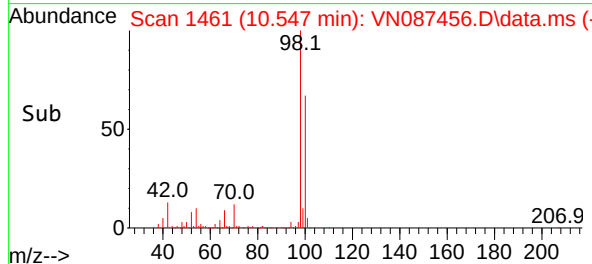
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 98 Resp: 486934  
Ion Ratio Lower Upper  
98 100  
100 66.0 50.5 75.7

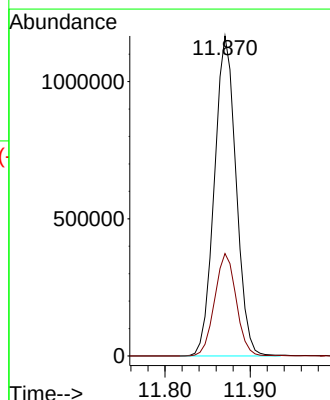
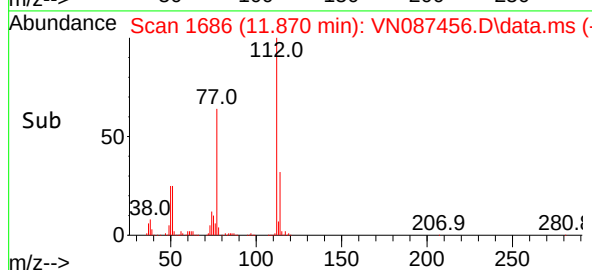
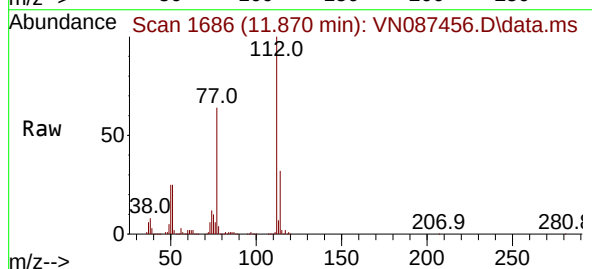
Manual Integrations  
APPROVED

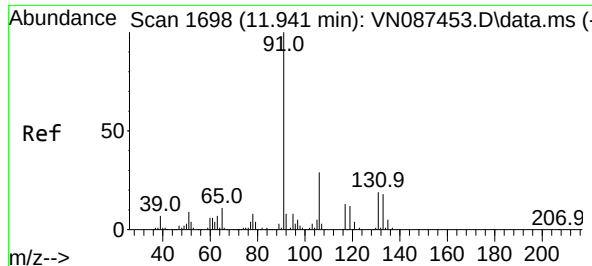
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#64  
Chlorobenzene  
Concen: 149.658 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:112 Resp: 2069135  
Ion Ratio Lower Upper  
112 100  
114 32.0 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 148.418 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:131 Resp: 721458

Ion Ratio Lower Upper

131 100

133 95.6 0.0 189.8

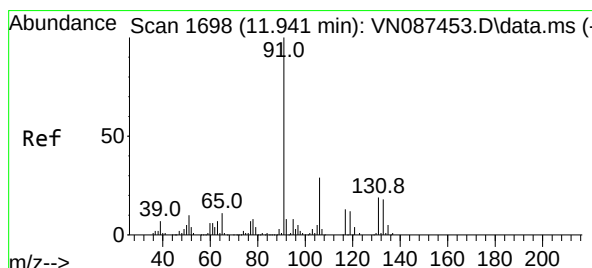
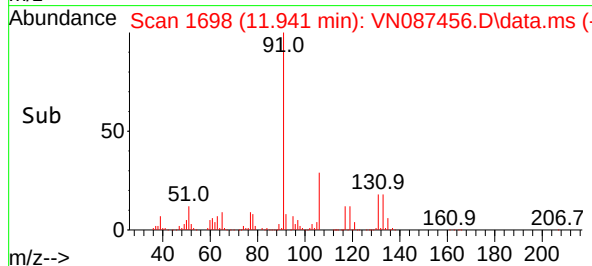
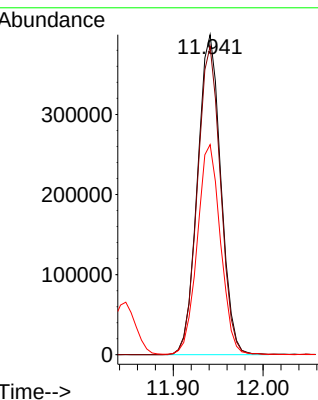
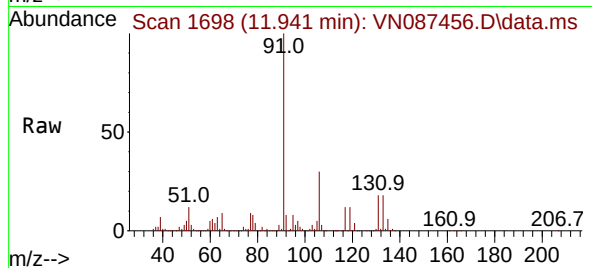
119 65.5 0.0 133.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#66

Ethyl Benzene

Concen: 150.033 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087456.D

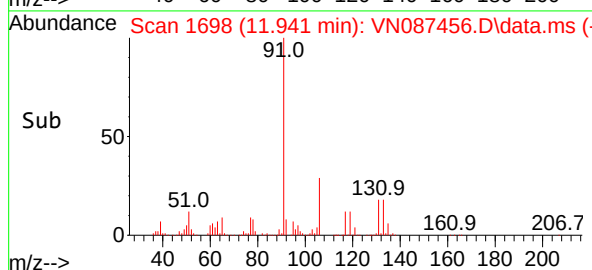
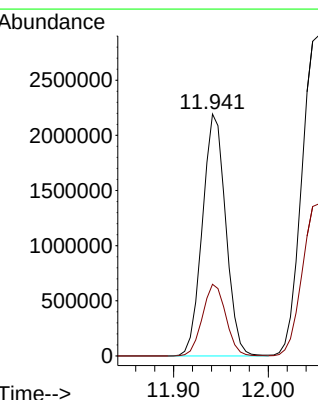
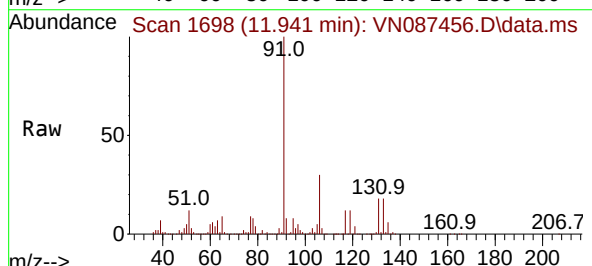
Acq: 05 Aug 2025 15:01

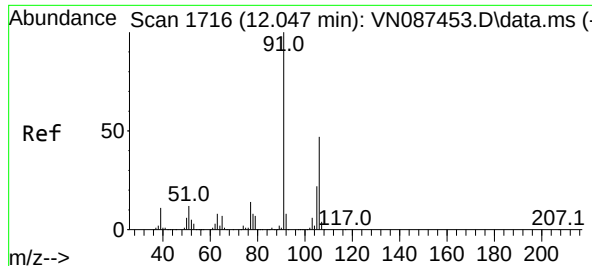
Tgt Ion: 91 Resp: 3762645

Ion Ratio Lower Upper

91 100

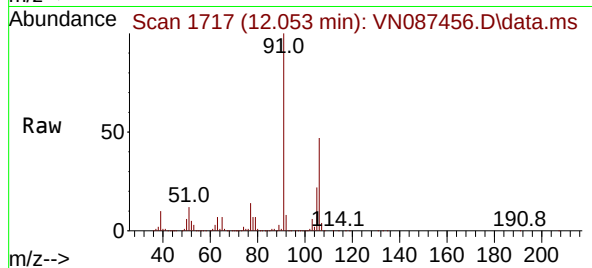
106 29.6 22.9 34.3





#67  
m/p-Xylenes  
Concen: 298.294 ug/l  
RT: 12.053 min Scan# 1716  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

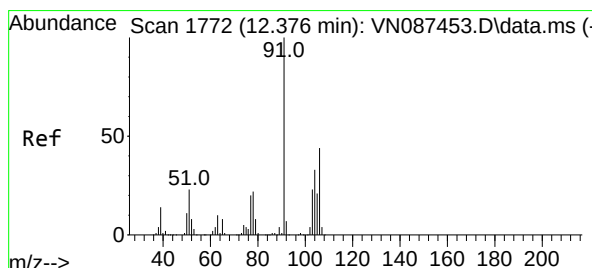
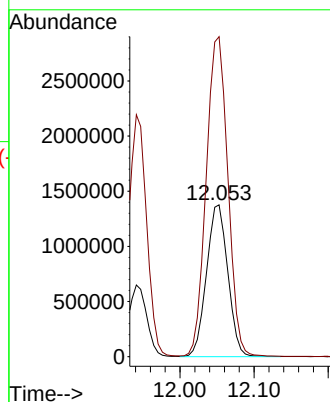
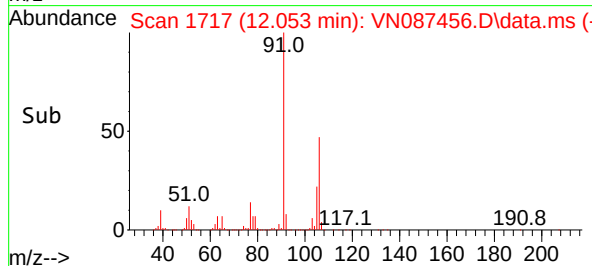
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion:106 Resp: 2745929  
Ion Ratio Lower Upper  
106 100  
91 214.5 174.2 261.2

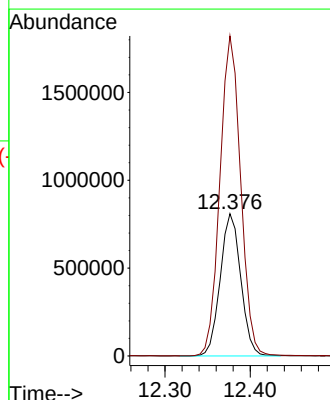
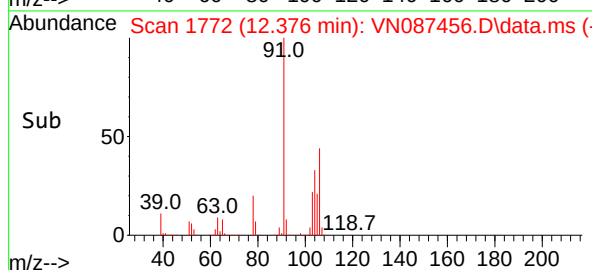
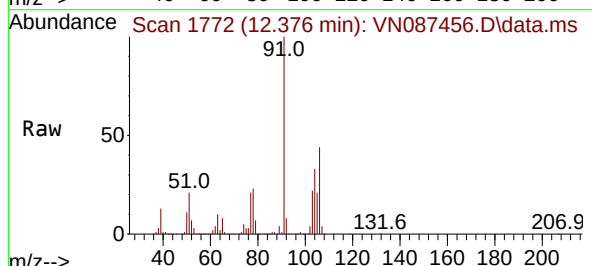
Manual Integrations  
APPROVED

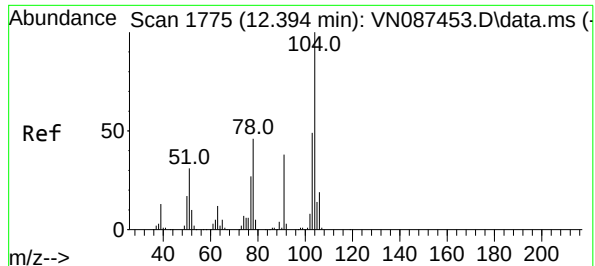
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#68  
o-Xylene  
Concen: 149.962 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

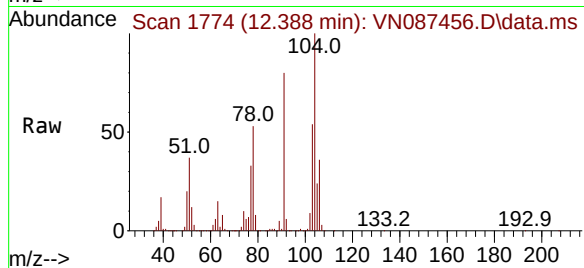
Tgt Ion:106 Resp: 1358102  
Ion Ratio Lower Upper  
106 100  
91 227.2 114.5 343.5





#69  
Styrene  
Concen: 154.045 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

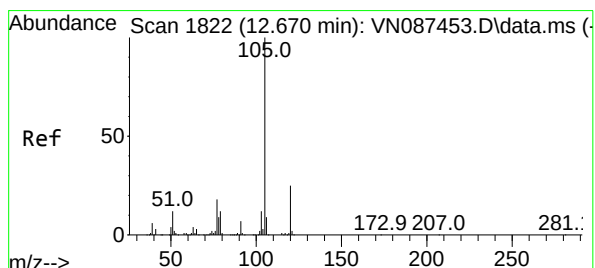
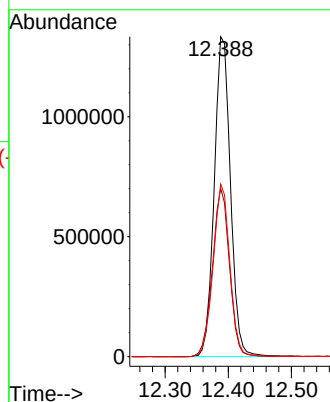
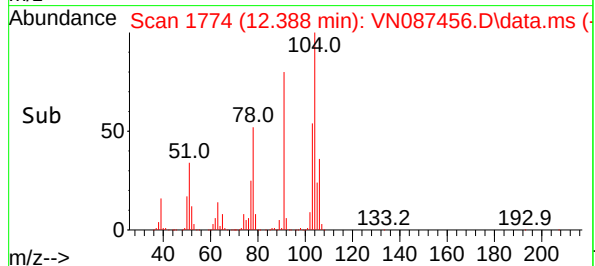
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion:104 Resp: 238209  
Ion Ratio Lower Upper  
104 100  
78 55.0 43.8 65.8  
103 55.6 43.1 64.7

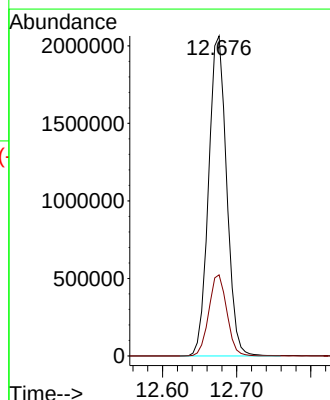
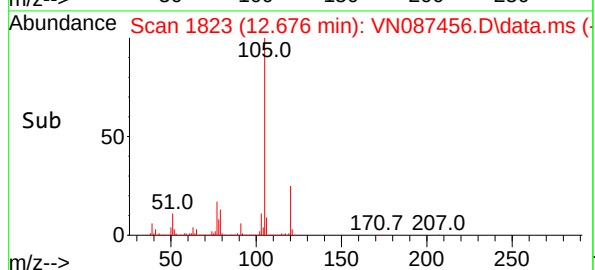
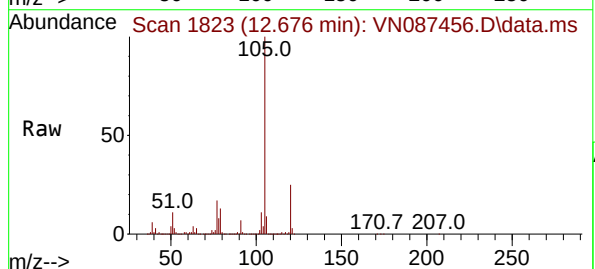
Manual Integrations  
APPROVED

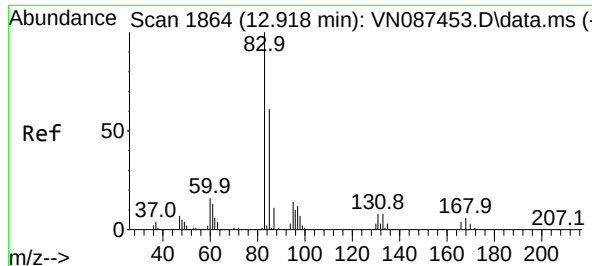
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#70  
Isopropylbenzene  
Concen: 151.792 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

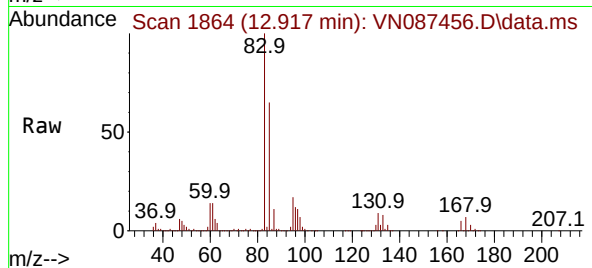
Tgt Ion:105 Resp: 3492470  
Ion Ratio Lower Upper  
105 100  
120 25.3 17.5 32.5





#71  
1,1,2-Tetrachloroethane  
Concen: 145.247 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

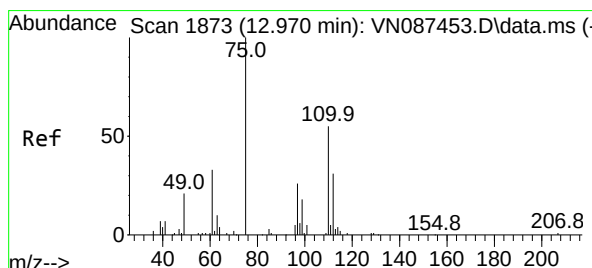
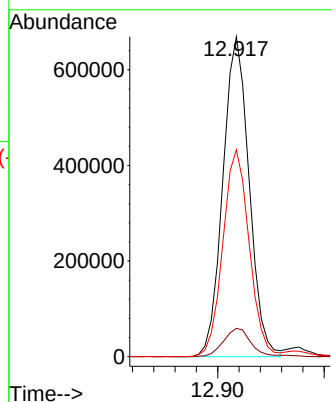
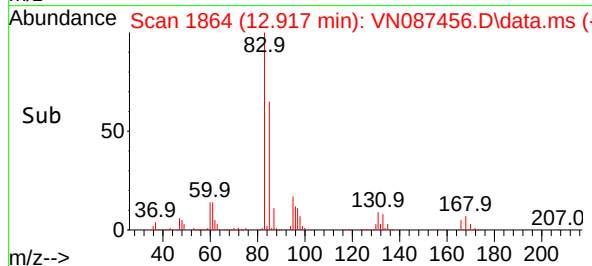
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion: 83 Resp: 114504  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 64.7 31.7 95.1

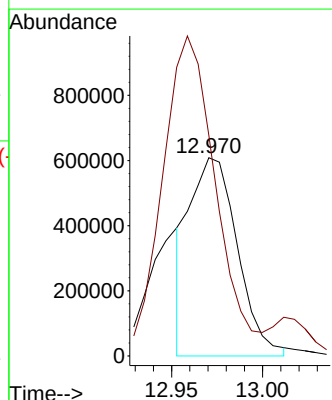
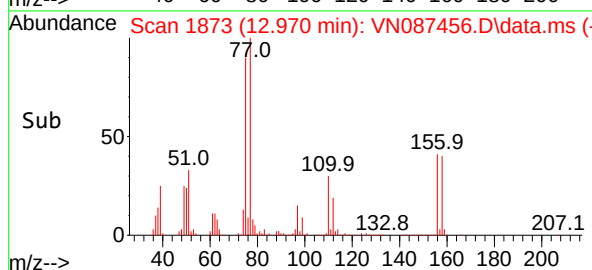
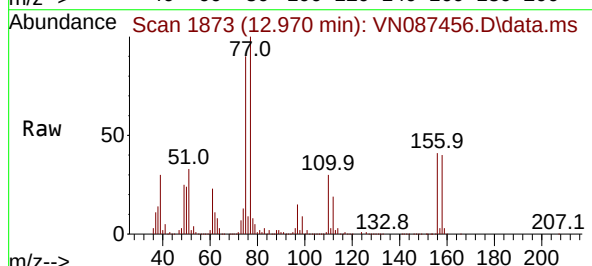
Manual Integrations  
APPROVED

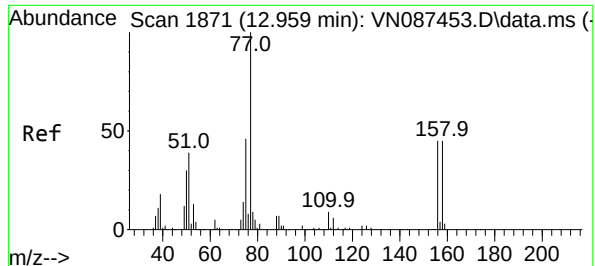
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#72  
1,2,3-Trichloropropane  
Concen: 137.926 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

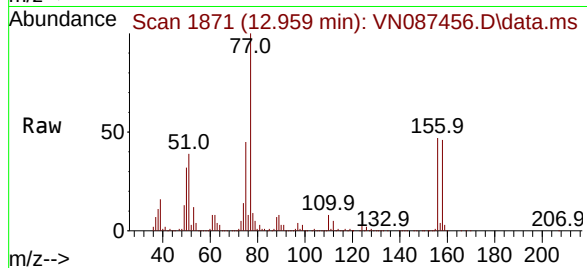
Tgt Ion: 75 Resp: 1117688  
Ion Ratio Lower Upper  
75 100  
77 179.2 0.0 385.0





#73  
Bromobenzene  
Concen: 149.771 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

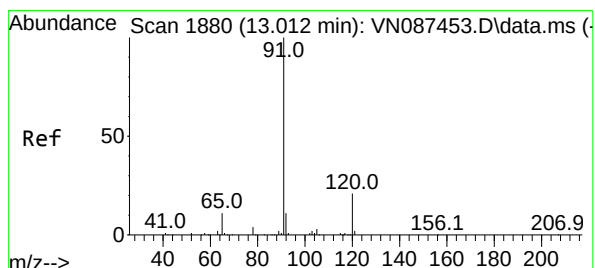
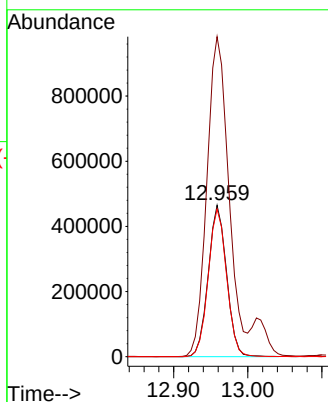
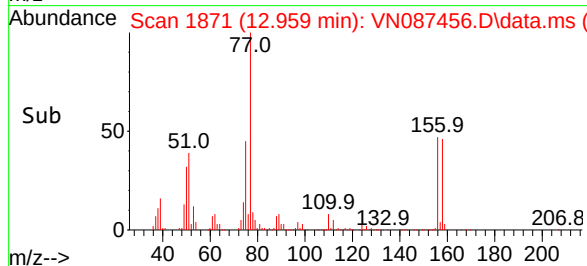
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:156 Resp: 79884  
Ion Ratio Lower Upper  
156 100  
77 250.8 0.0 506.6  
158 97.8 0.0 193.6

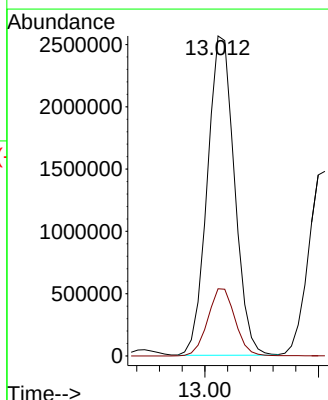
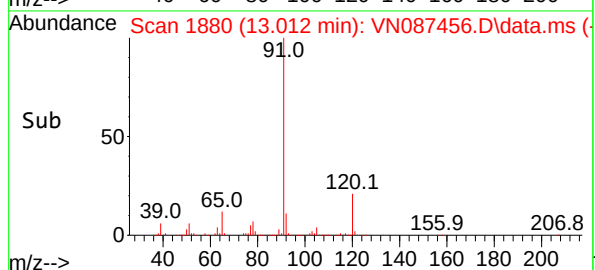
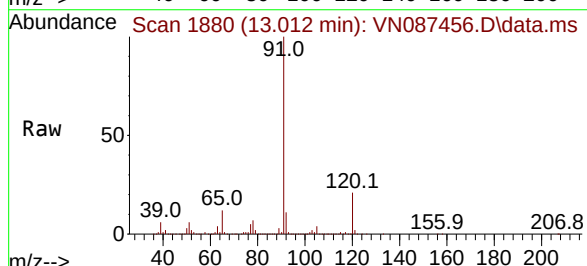
Manual Integrations  
APPROVED

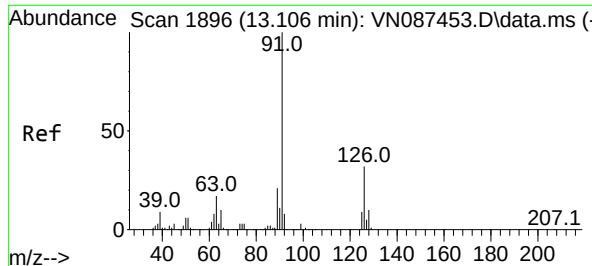
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#74  
n-propylbenzene  
Concen: 148.316 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 4261831  
Ion Ratio Lower Upper  
91 100  
120 21.1 0.0 41.8





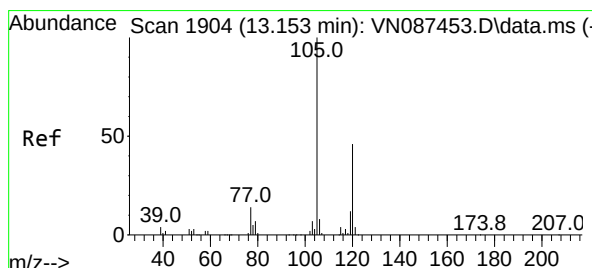
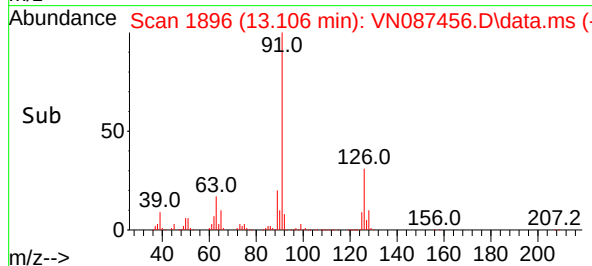
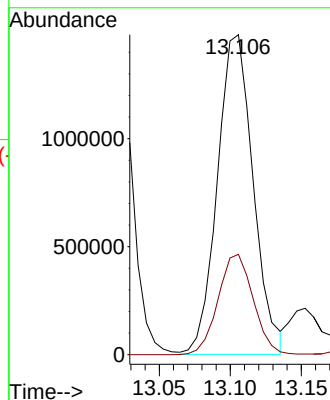
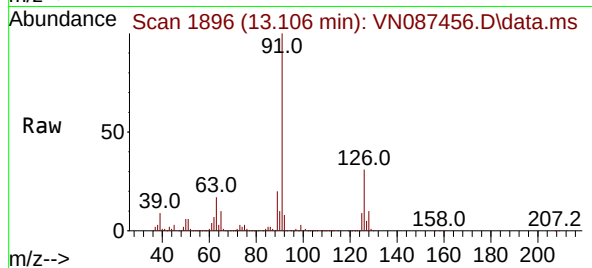
#75  
2-Chlorotoluene  
Concen: 146.890 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

Tgt Ion: 91 Resp: 259635  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4

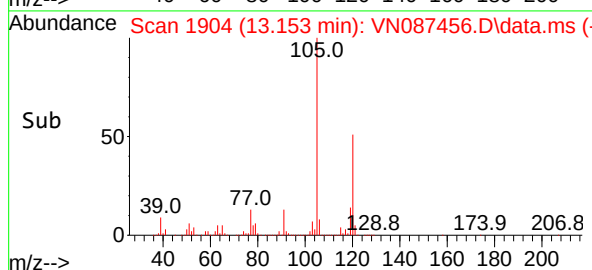
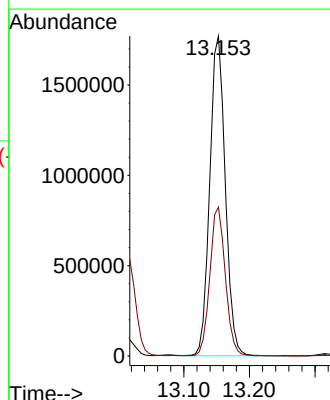
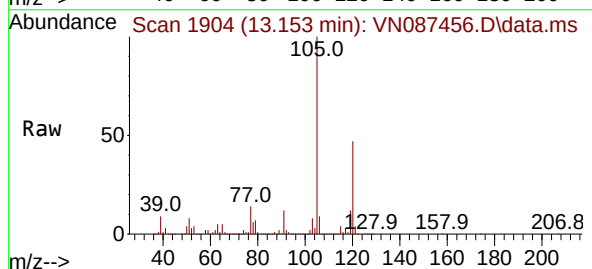
Manual Integrations  
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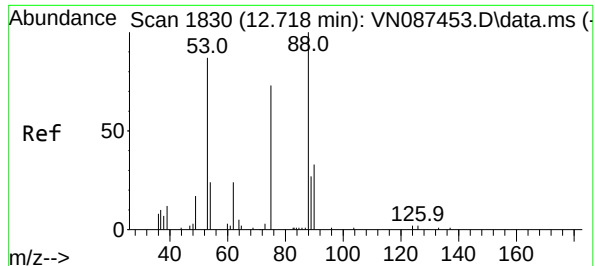
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 147.934 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

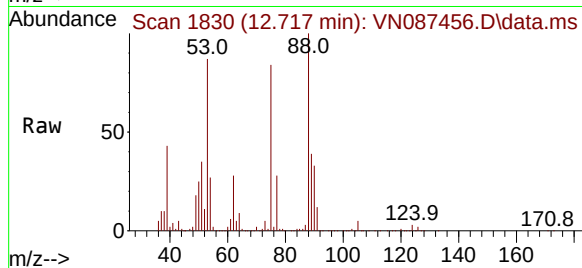
Tgt Ion:105 Resp: 2914301  
Ion Ratio Lower Upper  
105 100  
120 46.5 0.0 91.2





#77  
t-1,4-Dichloro-2-butene  
Concen: 167.752 ug/l  
RT: 12.717 min Scan# 1830  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

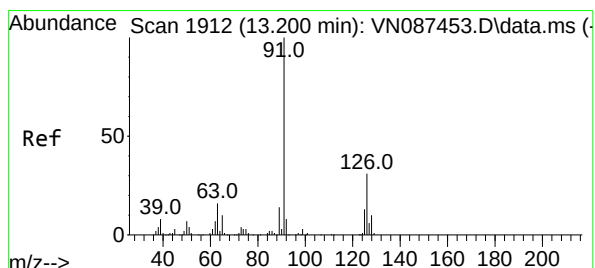
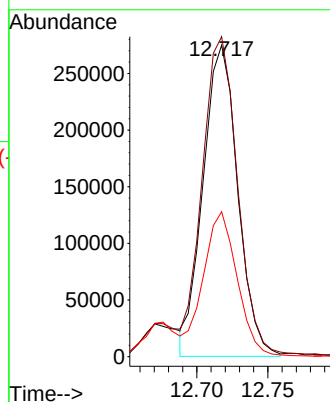
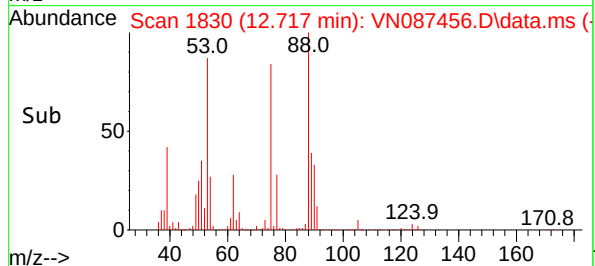
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 75 Resp: 466370  
Ion Ratio Lower Upper  
75 100  
53 102.1 59.0 176.8  
89 46.4 22.1 66.5

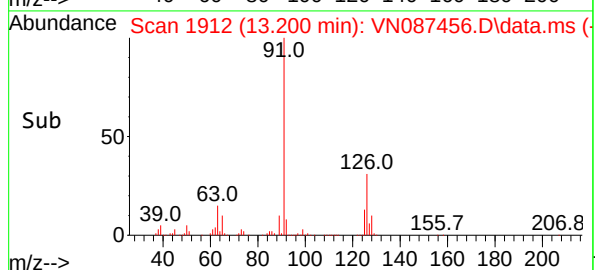
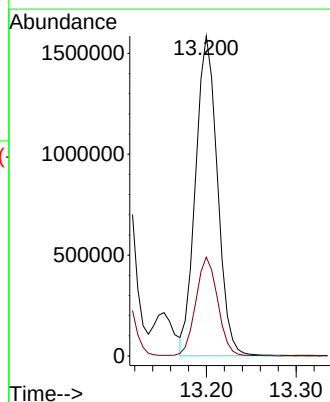
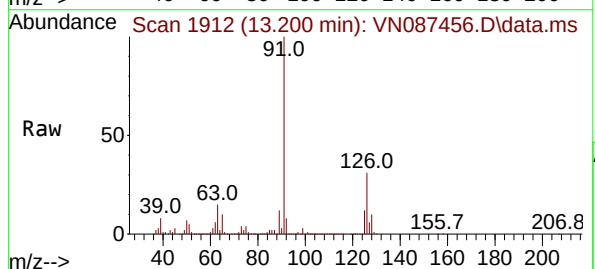
Manual Integrations  
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Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

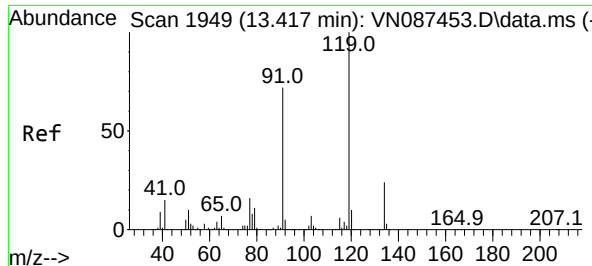


#78  
4-Chlorotoluene  
Concen: 149.787 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 2683008  
Ion Ratio Lower Upper  
91 100  
126 31.0 0.0 63.2







#79

tert-butylbenzene

Concen: 146.177 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 2427930

Ion Ratio Lower Upper

119 100

91 74.1 0.0 141.6

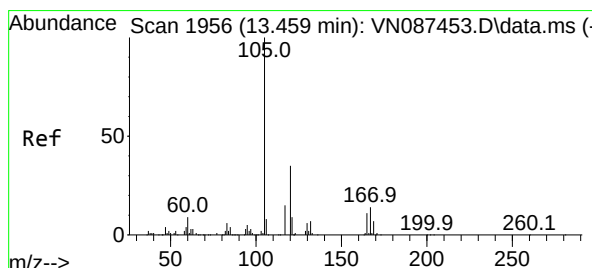
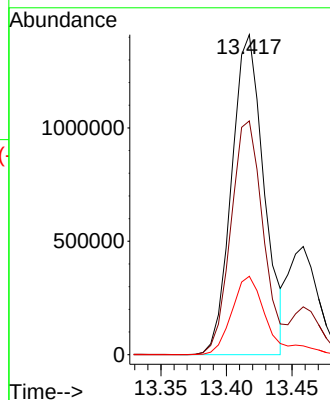
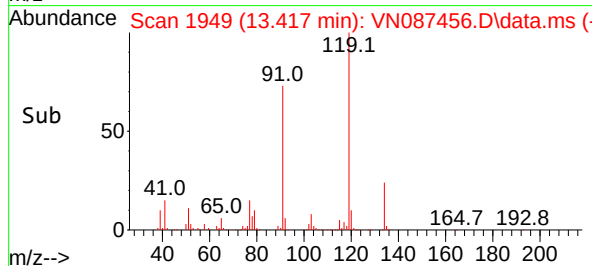
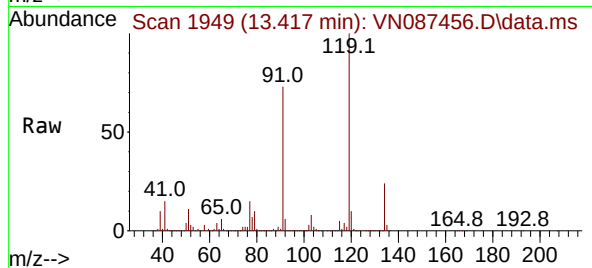
134 24.6 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 149.164 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087456.D

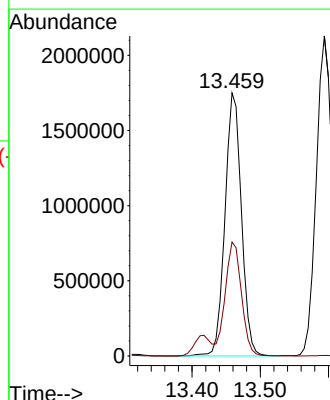
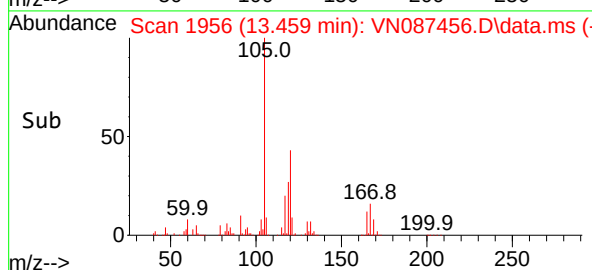
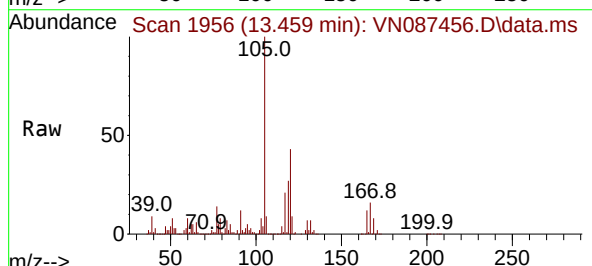
Acq: 05 Aug 2025 15:01

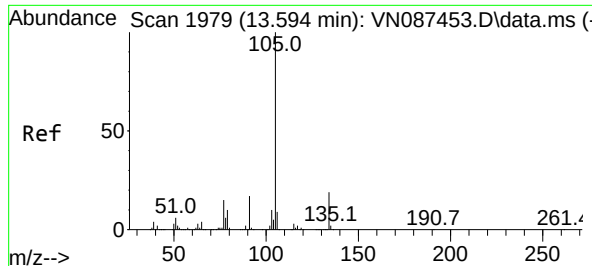
Tgt Ion:105 Resp: 2936296

Ion Ratio Lower Upper

105 100

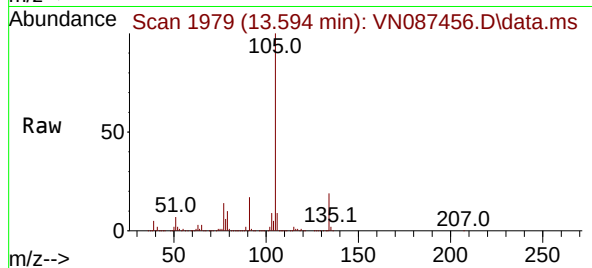
120 43.2 0.0 87.2





#81  
sec-Butylbenzene  
Concen: 146.583 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

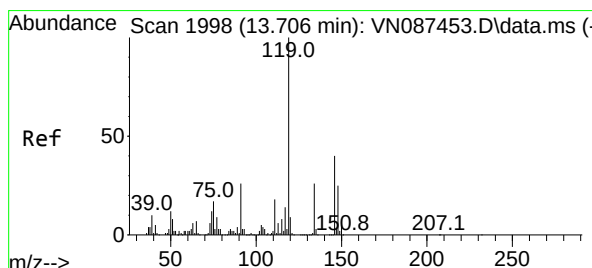
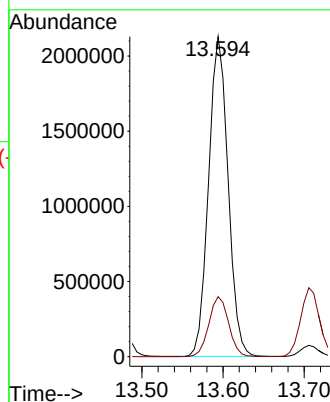
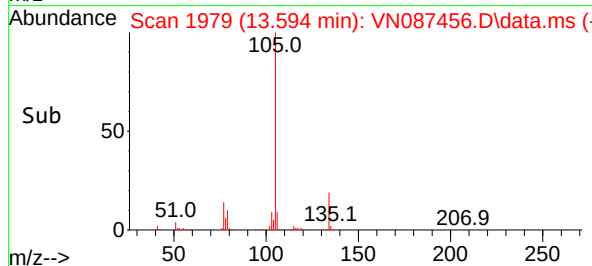
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150



Tgt Ion:105 Resp: 3544404  
Ion Ratio Lower Upper  
105 100  
134 19.1 0.0 37.6

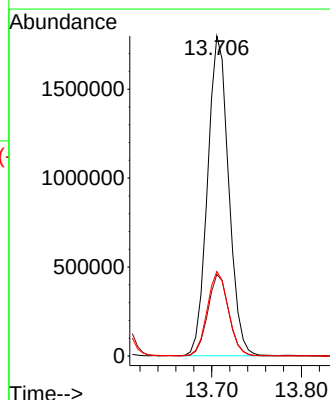
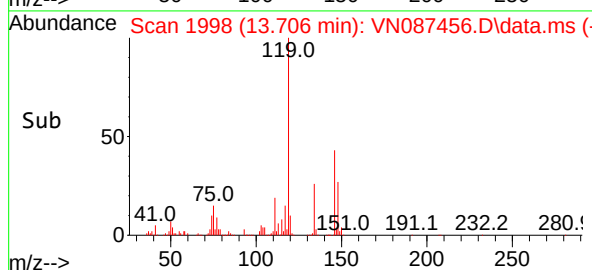
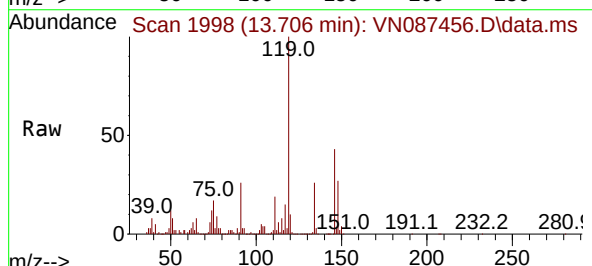
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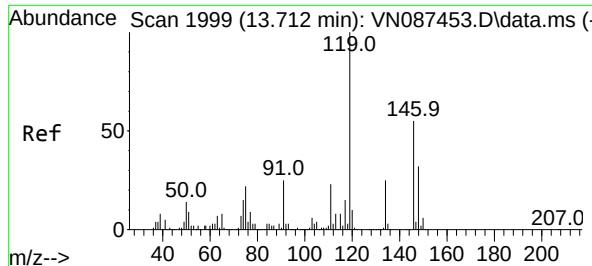
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#82  
p-Isopropyltoluene  
Concen: 146.146 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:119 Resp: 2934141  
Ion Ratio Lower Upper  
119 100  
134 25.3 0.0 51.4  
91 26.4 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 148.523 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 1508514

Ion Ratio Lower Upper

146 100

111 44.4 21.9 65.5

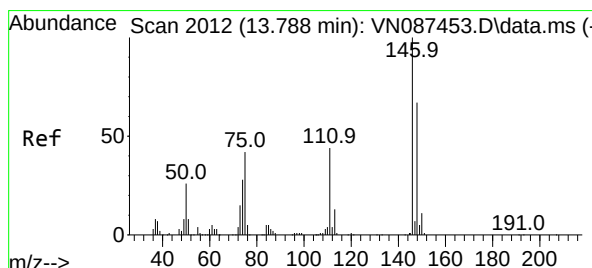
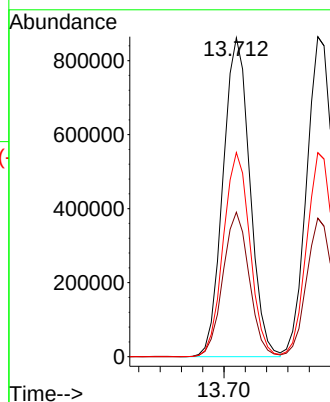
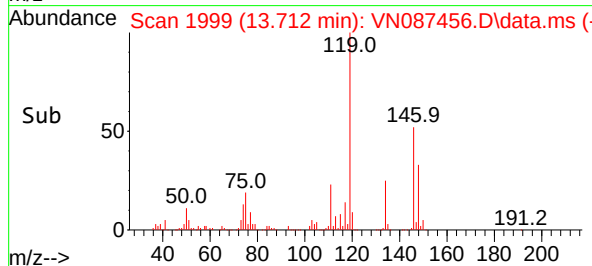
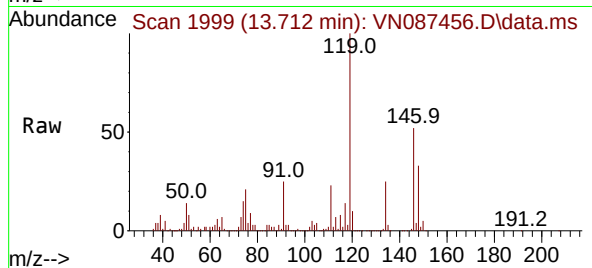
148 63.3 31.3 93.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#84

1,4-Dichlorobenzene

Concen: 147.799 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

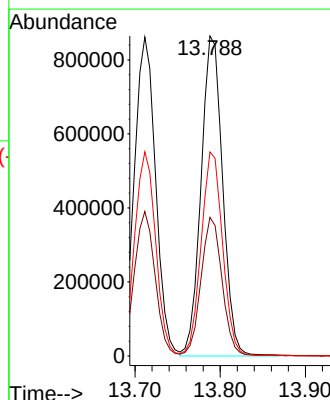
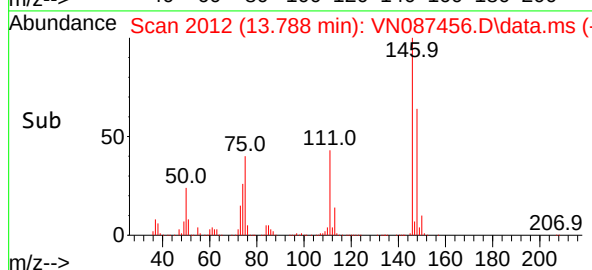
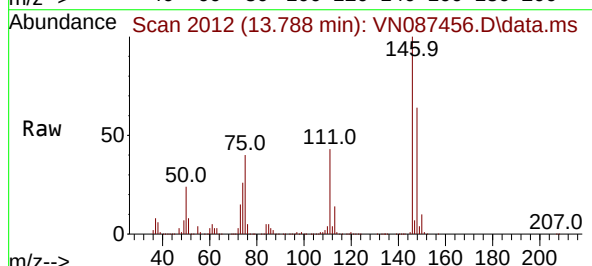
Tgt Ion:146 Resp: 1521926

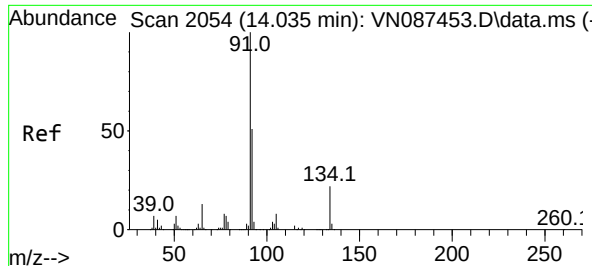
Ion Ratio Lower Upper

146 100

111 42.0 21.1 63.1

148 62.9 31.4 94.3





#85

n-Butylbenzene

Concen: 148.660 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 2920119

Ion Ratio Lower Upper

91 100

92 52.9 0.0 106.6

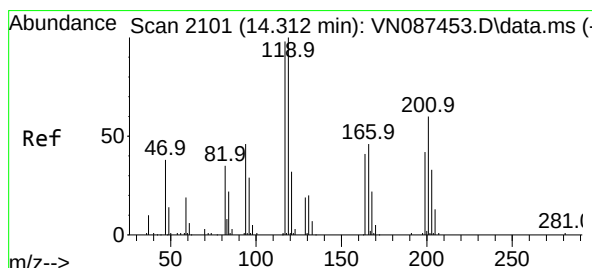
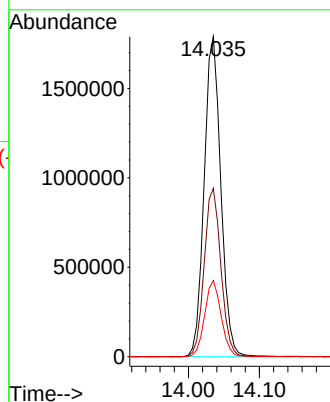
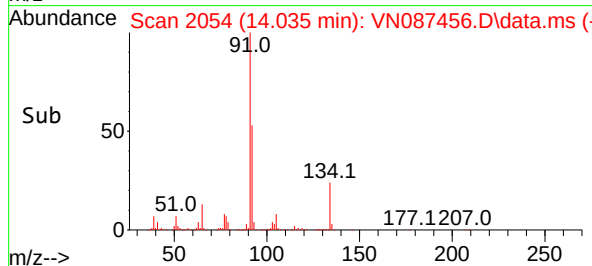
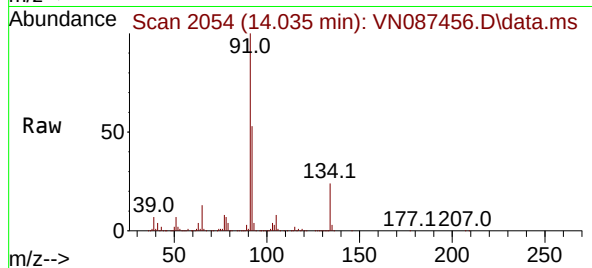
134 23.6 0.0 44.4

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 151.982 ug/l

RT: 14.311 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN087456.D

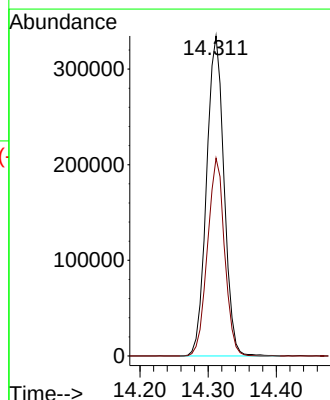
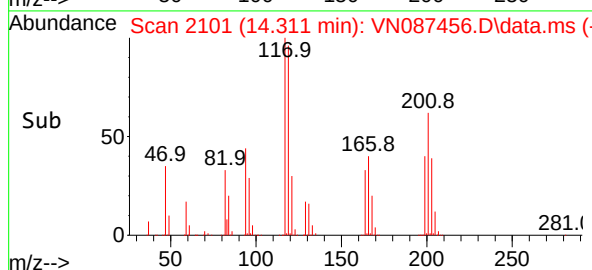
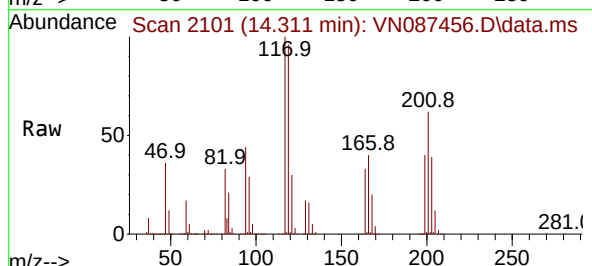
Acq: 05 Aug 2025 15:01

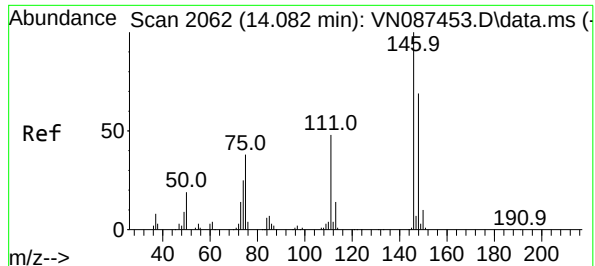
Tgt Ion:117 Resp: 595863

Ion Ratio Lower Upper

117 100

201 60.6 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 149.224 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 1446749

Ion Ratio Lower Upper

146 100

111 45.3 22.9 68.7

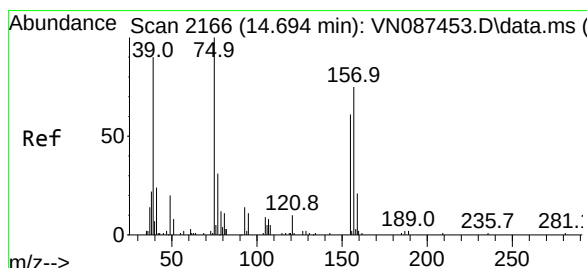
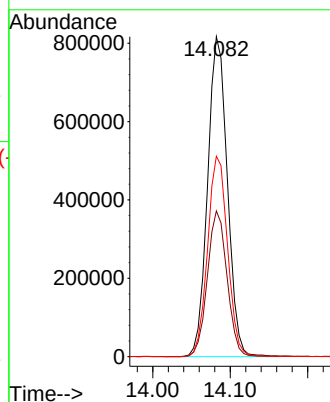
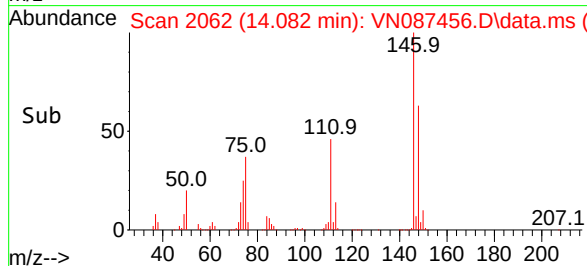
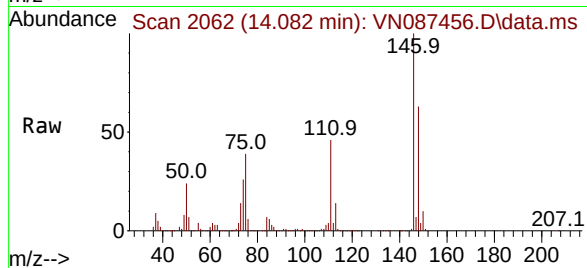
148 63.3 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 149.861 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

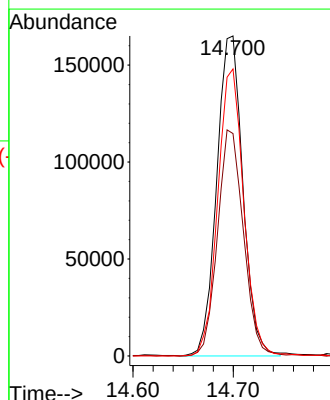
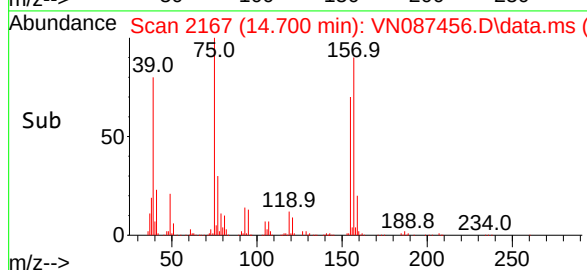
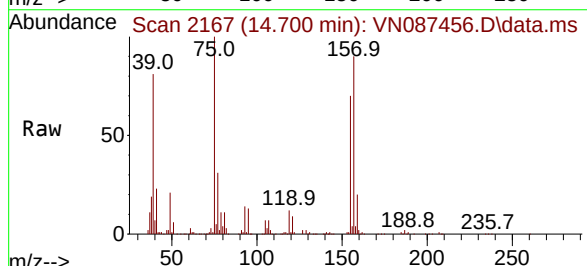
Tgt Ion: 75 Resp: 299287

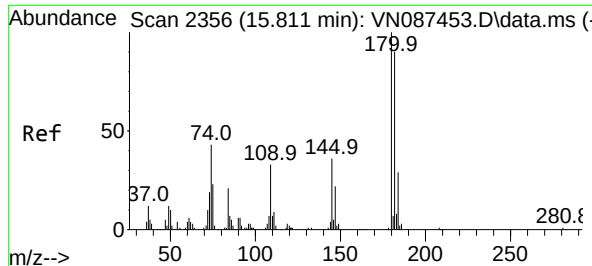
Ion Ratio Lower Upper

75 100

155 69.9 55.7 83.5

157 88.5 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 154.184 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 893360

Ion Ratio Lower Upper

180 100

182 94.5 75.0 112.4

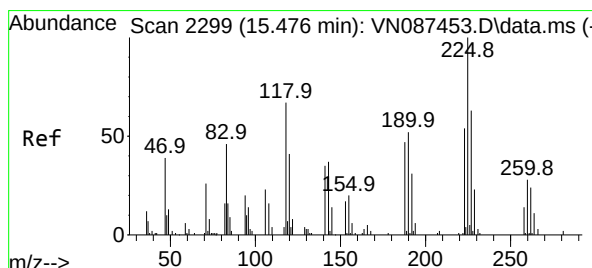
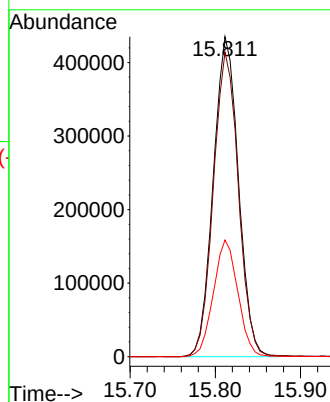
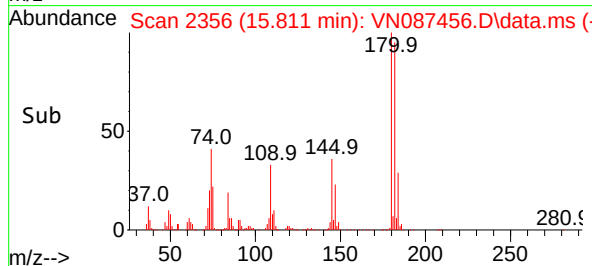
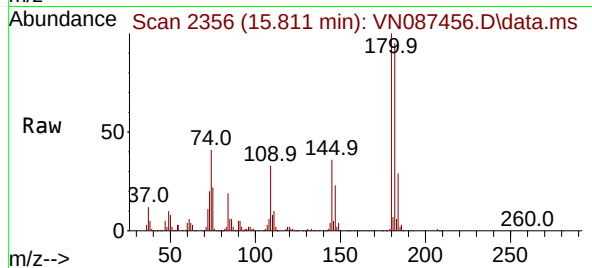
145 35.4 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 141.046 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

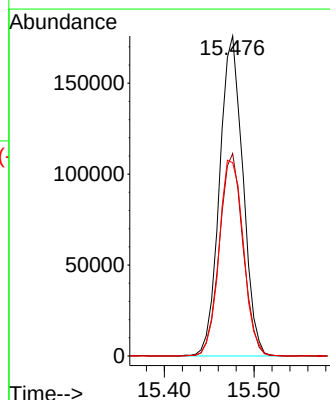
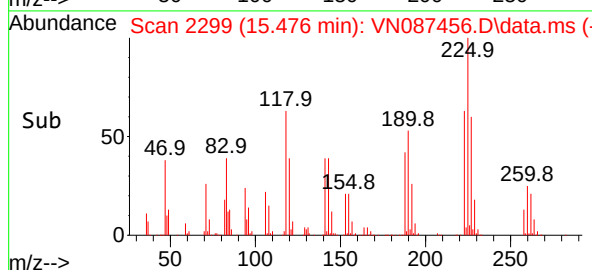
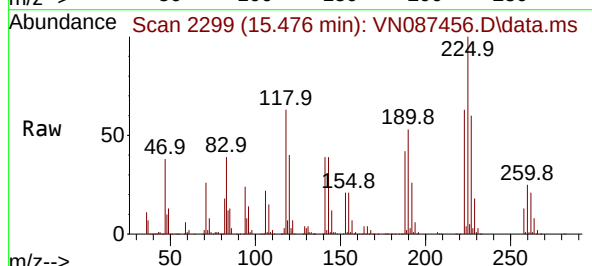
Tgt Ion:225 Resp: 317783

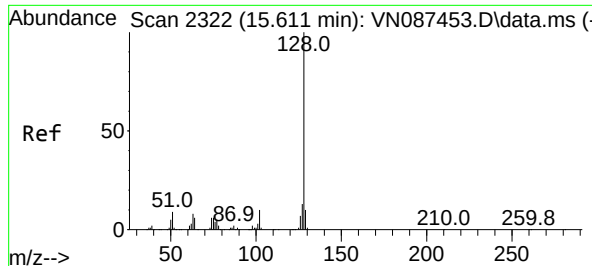
Ion Ratio Lower Upper

225 100

223 63.8 0.0 116.0

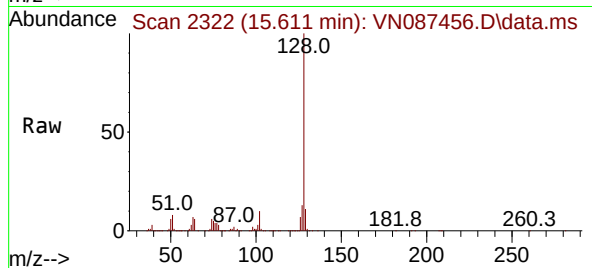
227 63.9 0.0 127.0





#91  
Naphthalene  
Concen: 155.335 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

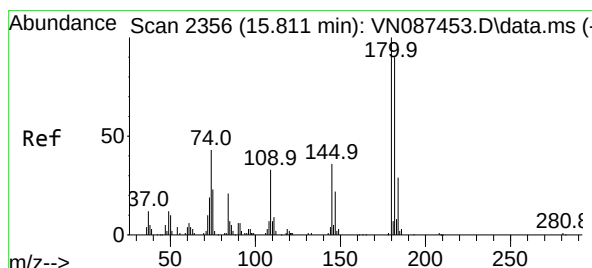
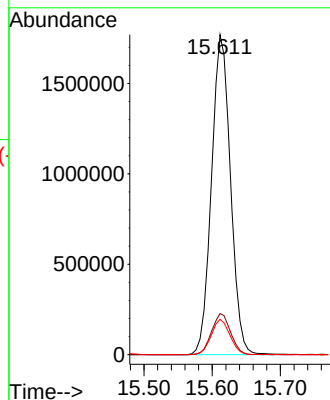
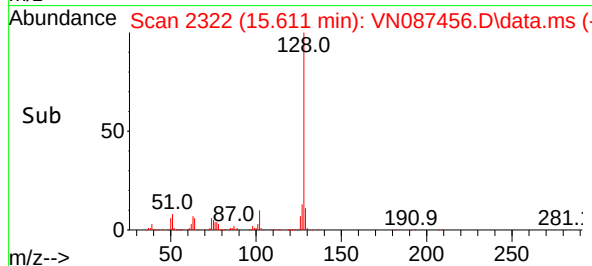
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:128 Resp: 3431814  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.9 8.9 13.3

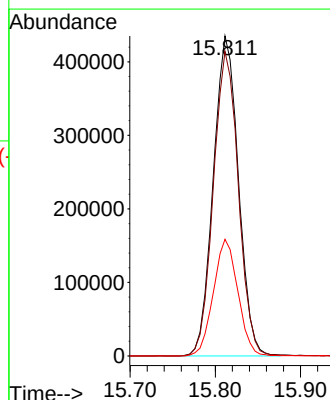
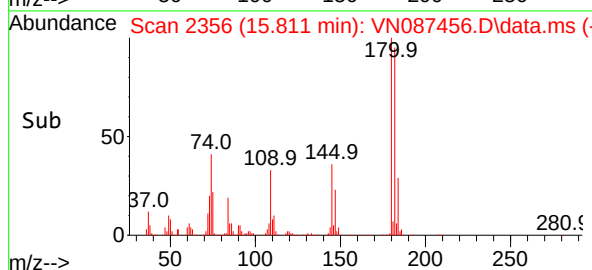
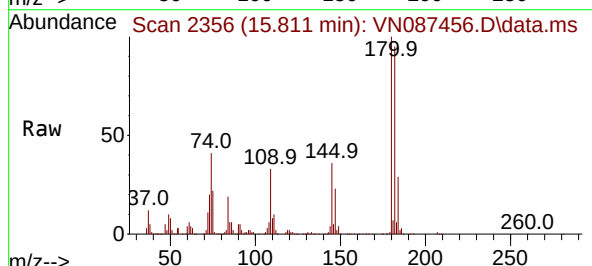
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 154.184 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:180 Resp: 893366  
Ion Ratio Lower Upper  
180 100  
182 94.5 0.0 187.4  
145 35.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 71823               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 404390              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 367577              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 202347              | 30.545  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 101.800% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 192410              | 30.417  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.400% |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 513267              | 30.347  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 101.167% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 87746               | 18.712  | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 85826               | 17.839  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.542          | 62   | 97923               | 19.190  | ug/l   | 92       |
| 5) Bromomethane              | 2.983          | 94   | 53929               | 19.525  | ug/l   | 85       |
| 6) Chloroethane              | 3.142          | 64   | 59300               | 18.022  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 133795              | 18.219  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.959          | 74   | 56065               | 18.325  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 68759               | 18.360  | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 71378               | 18.145  | ug/l   | 90       |
| 11) Methyl Iodide            | 4.583          | 142  | 48013               | 15.501  | ug/l   | 96       |
| 12) Methyl Acetate           | 5.018          | 43   | 133791              | 18.431  | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 114938              | 103.668 | ug/l   | 98       |
| 14) Acrylonitrile            | 5.712          | 53   | 287956              | 90.843  | ug/l   | 98       |
| 15) Acetone                  | 4.424          | 58   | 88879               | 98.134  | ug/l   | 96       |
| 16) Carbon Disulfide         | 4.706          | 76   | 219977              | 18.028  | ug/l   | 99       |
| 17) Allyl chloride           | 5.018          | 41   | 149799              | 18.683  | ug/l   | 88       |
| 18) Methylene Chloride       | 5.265          | 84   | 93115               | 18.387  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 5.765          | 96   | 83760               | 17.906  | ug/l   | 96       |
| 20) Diisopropyl ether        | 6.659          | 45   | 327254              | 17.917  | ug/l   | 99       |
| 21) 1,1-Dichloroethane       | 6.559          | 63   | 171210              | 18.134  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 103737              | 18.023  | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 128000              | 95.030  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 324724              | 18.116  | ug/l   | 98       |
| 25) Chloroform               | 7.953          | 83   | 177598              | 18.021  | ug/l   | 94       |
| 26) Cyclohexane              | 8.241          | 56   | 135890              | 17.977  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 117565              | 17.825  | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 435716              | 89.621  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 158483              | 18.630  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 151313              | 17.988  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 124231              | 17.777  | ug/l   | 93       |
| 34) Benzene                  | 8.588          | 78   | 376019              | 18.060  | ug/l   | 95       |
| 35) Methacrylonitrile        | 7.765          | 41   | 95290               | 18.163  | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 150784              | 17.918  | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 82742               | 18.041  | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.582          | 83   | 136830              | 17.882  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 94981               | 17.793  | ug/l   | 96       |
| 40) Dibromomethane           | 9.688          | 93   | 69241               | 17.288  | ug/l   | 93       |
| 41) Bromodichloromethane     | 9.871          | 83   | 146339              | 17.583  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.589          | 43   | 1423556             | 88.913  | ug/l   | 99       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/06/2025  
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 171684   | 18.279  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 278498   | 17.492  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.677  | 88   | 38322    | 377.572 | ug/l   | 98       |
| 46) Methyl methacrylate       | 9.665  | 41   | 127548   | 16.972  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.523 | 43   | 146094m  | 16.611  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 157686   | 17.415  | ug/l   | 96       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 162308   | 17.812  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 90030    | 17.791  | ug/l   | 93       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 153822   | 17.260  | ug/l   | 95       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 161040   | 17.664  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.335 | 129  | 101996   | 17.453  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 93933    | 17.486  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 443163   | 94.458  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 65682    | 16.992  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 848509   | 89.734  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.182 | 43   | 570046   | 88.726  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 64788    | 18.092  | ug/l   | 96       |
| 62) Toluene                   | 10.612 | 91   | 405628   | 17.879  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 248284   | 17.811  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 85480    | 17.440  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 452435   | 17.892  | ug/l   | 100      |
| 67) m/p-Xylenes               | 12.053 | 106  | 323616   | 34.866  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 159060   | 17.419  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 269120   | 17.260  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.676 | 105  | 412806   | 17.794  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 140546   | 17.682  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 120488m  | 16.271  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 91029    | 16.926  | ug/l   | 96       |
| 74) n-propylbenzene           | 13.012 | 91   | 521263   | 17.991  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 315743   | 17.717  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 356748   | 17.960  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.723 | 75   | 47247    | 16.855  | ug/l   | 90       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 327647   | 18.142  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 299129   | 17.861  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 358425   | 18.058  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 447713   | 18.364  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 367898   | 18.174  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 187078   | 18.268  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 188698   | 18.174  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 370033   | 18.683  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 69621    | 17.612  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 178646   | 18.275  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 35995    | 17.876  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 107490   | 18.399  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 42365    | 18.649  | ug/l   | 95       |
| 91) Naphthalene               | 15.611 | 128  | 404839   | 18.174  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 107490   | 18.399  | ug/l   | 99       |

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

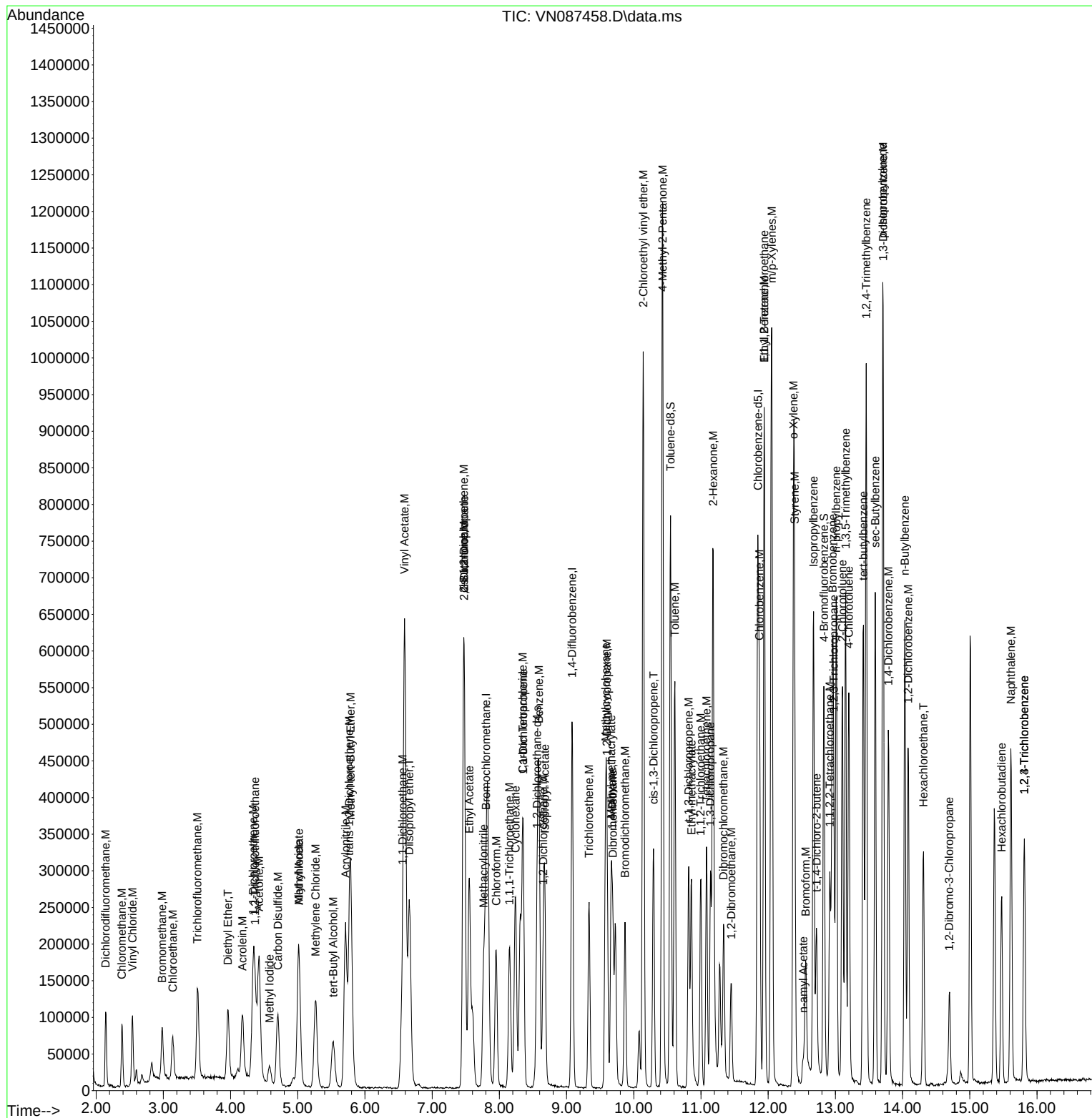
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\  
Data File : VN087458.D  
Acq On    : 05 Aug 2025   15:43  
Operator  : JC\MD  
Sample    : VSTDICV020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 12   Sample Multiplier: 1
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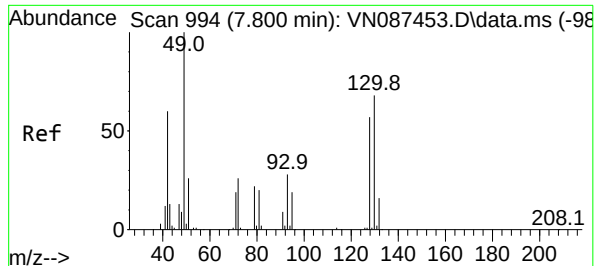
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
ICVVN080525

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:12:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration





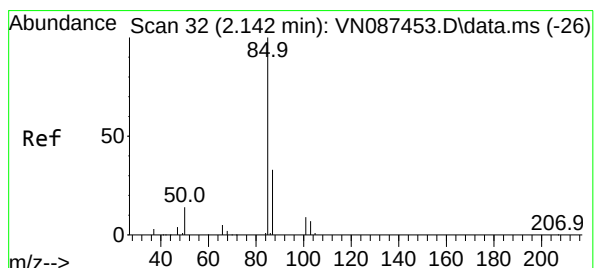
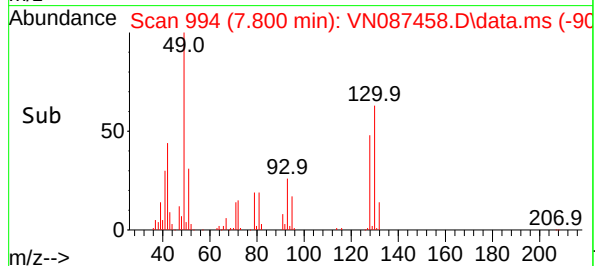
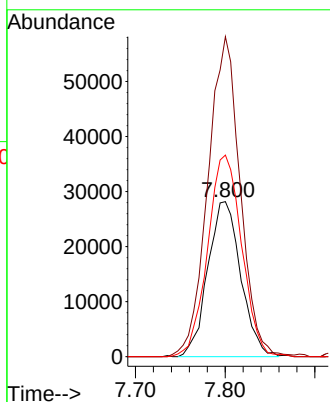
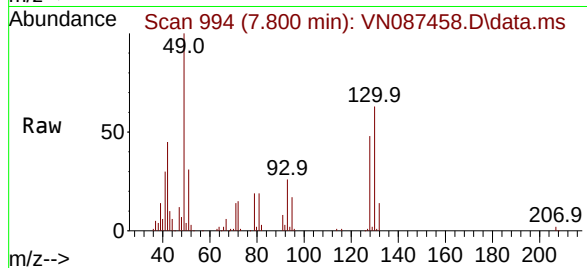
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 202.5 | 0.0   | 494.8 |
| 130     | 134.5 | 0.0   | 321.5 |

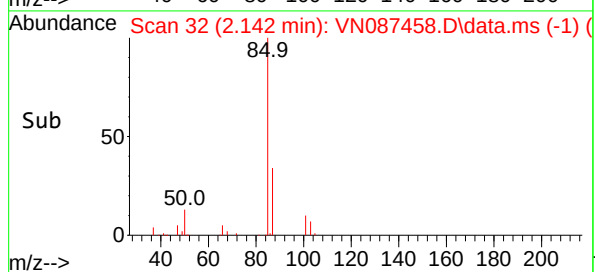
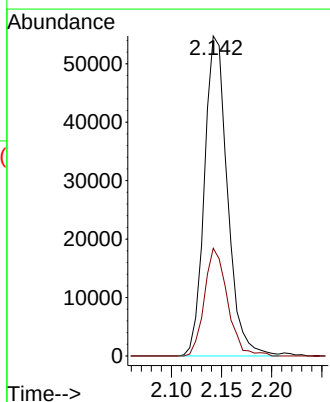
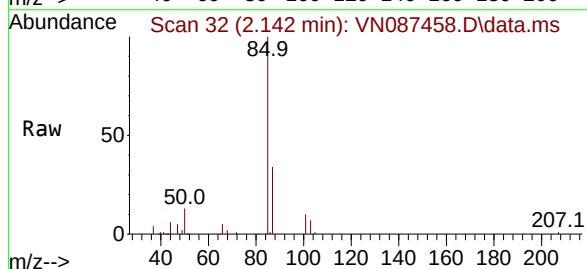
Manual Integrations  
APPROVED

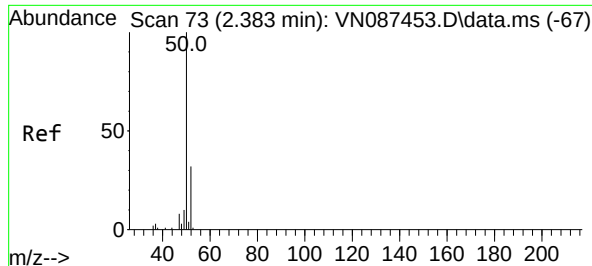
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#2  
Dichlorodifluoromethane  
Concen: 18.712 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

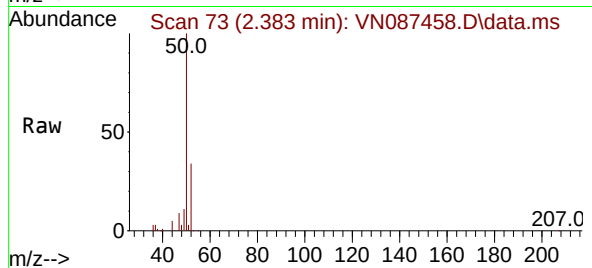
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 33.7  | 16.4  | 49.2  |





#3  
Chloromethane  
Concen: 17.839 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

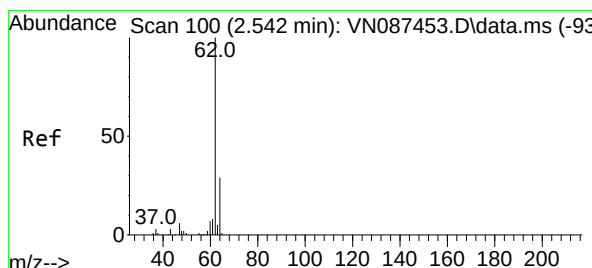
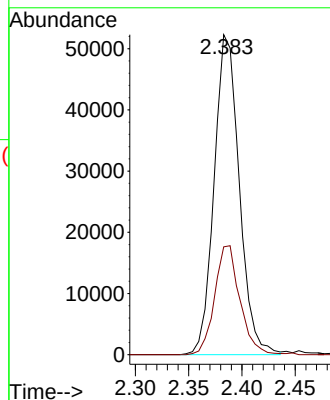
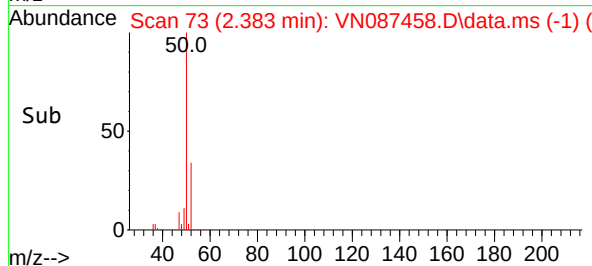
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 50 Resp: 85820  
Ion Ratio Lower Upper  
50 100  
52 33.7 25.8 38.6

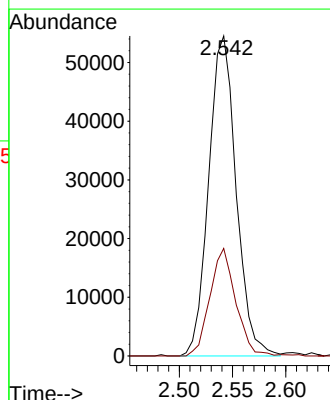
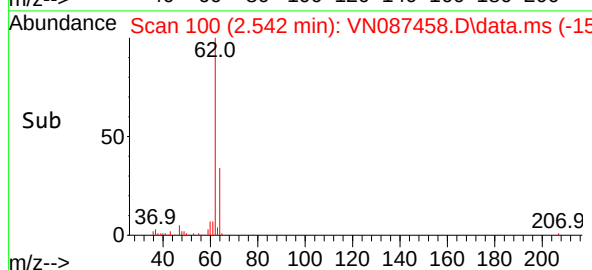
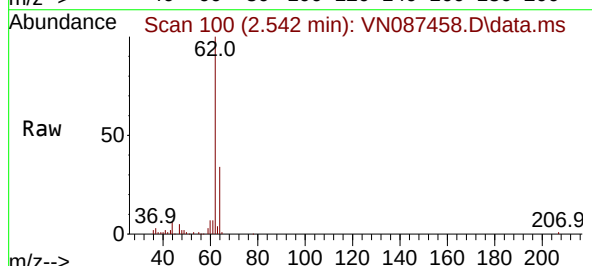
Manual Integrations  
APPROVED

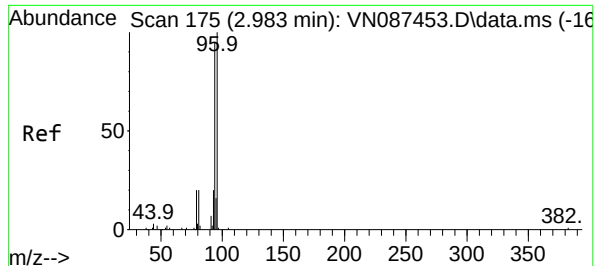
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#4  
Vinyl Chloride  
Concen: 19.190 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

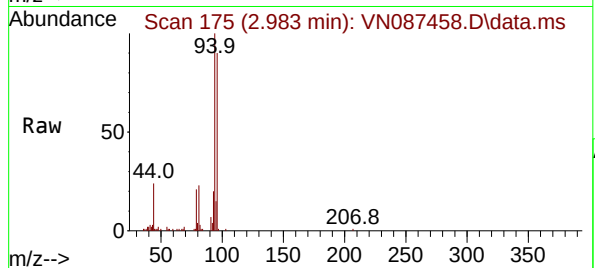
Tgt Ion: 62 Resp: 97923  
Ion Ratio Lower Upper  
62 100  
64 33.6 23.4 35.2





#5  
Bromomethane  
Concen: 19.525 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

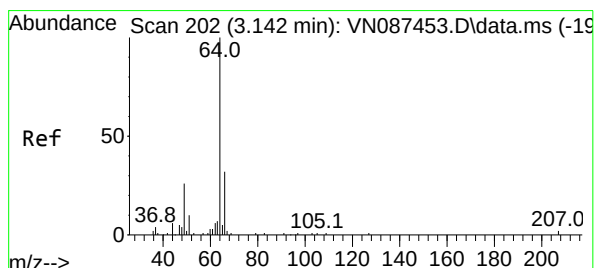
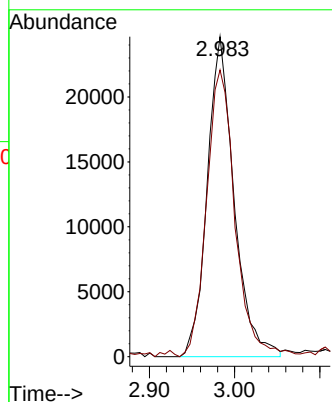
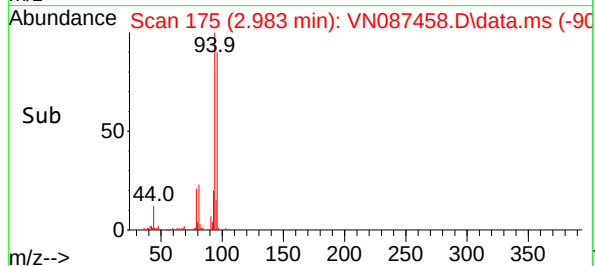
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 94 Resp: 53929  
Ion Ratio Lower Upper  
94 100  
96 89.6 84.2 126.4

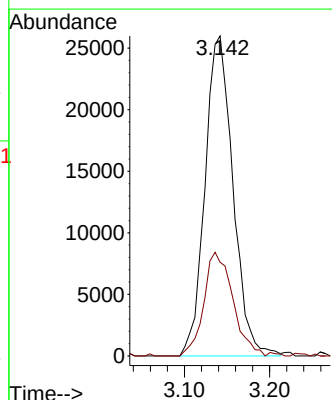
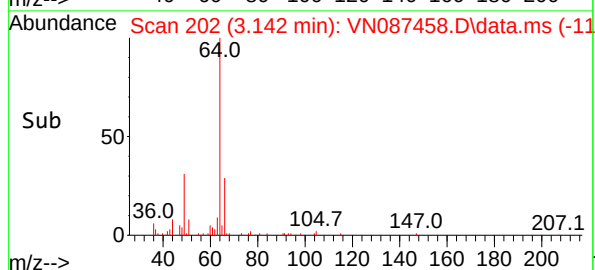
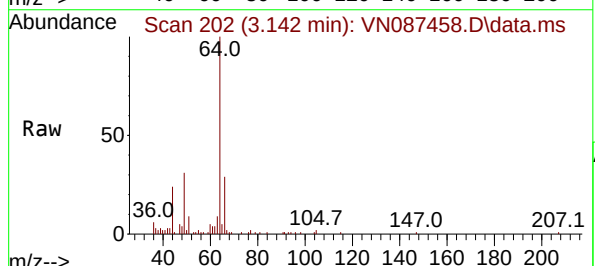
Manual Integrations  
APPROVED

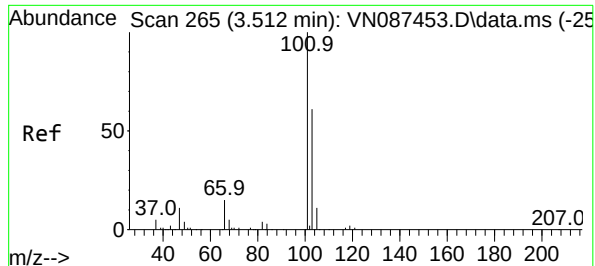
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#6  
Chloroethane  
Concen: 18.022 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

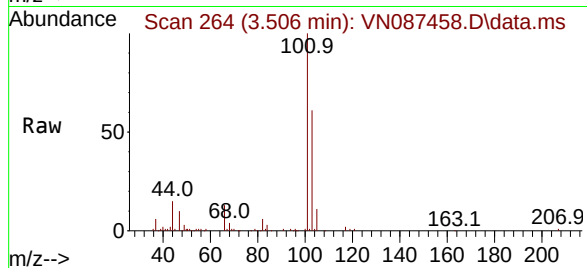
Tgt Ion: 64 Resp: 59300  
Ion Ratio Lower Upper  
64 100  
66 29.5 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 18.219 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

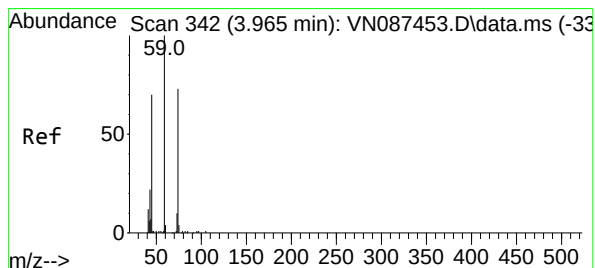
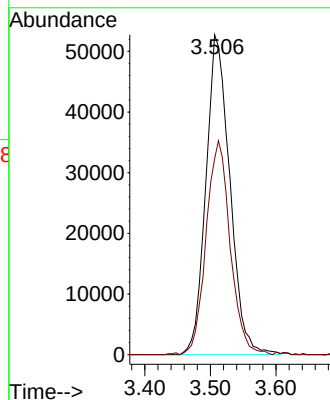
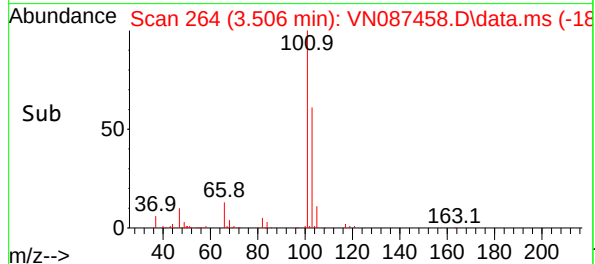
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:101 Resp: 13379  
Ion Ratio Lower Upper  
101 100  
103 61.2 49.2 73.8

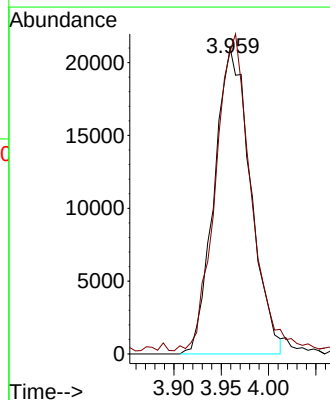
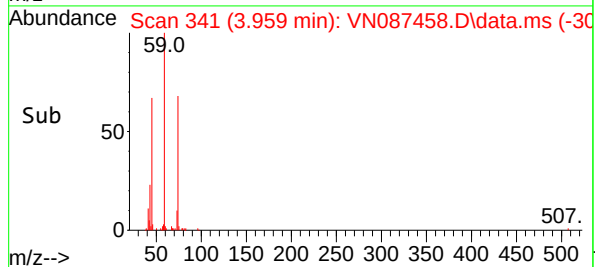
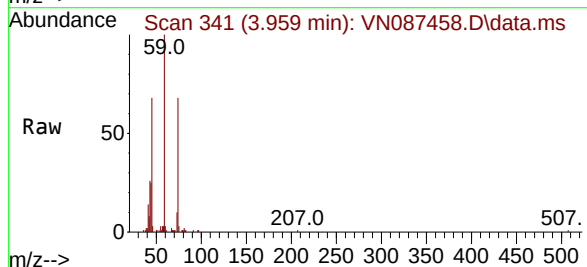
Manual Integrations  
APPROVED

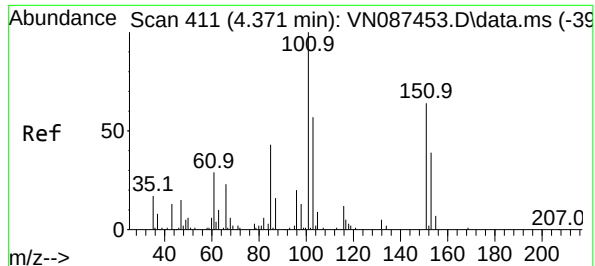
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#8  
Diethyl Ether  
Concen: 18.325 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 74 Resp: 56065  
Ion Ratio Lower Upper  
74 100  
45 100.5 20.1 180.9





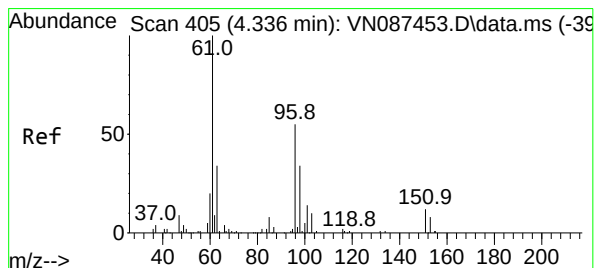
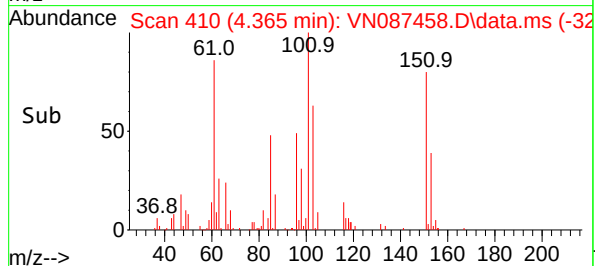
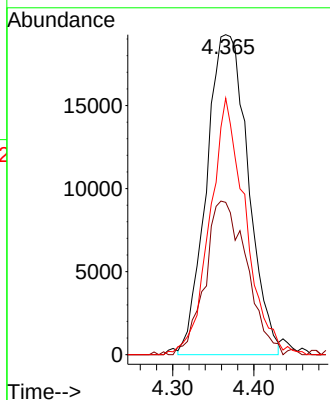
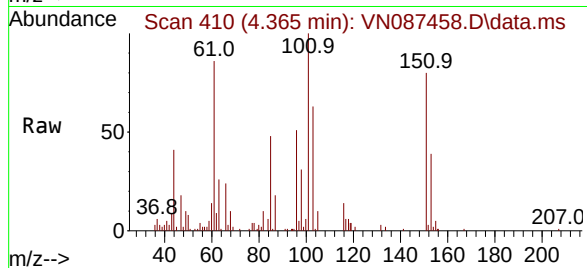
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.360 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

Tgt Ion: 101 Resp: 6875  
Ion Ratio Lower Upper  
101 100  
85 47.8 0.0 57.0  
151 68.0 0.0 134.2

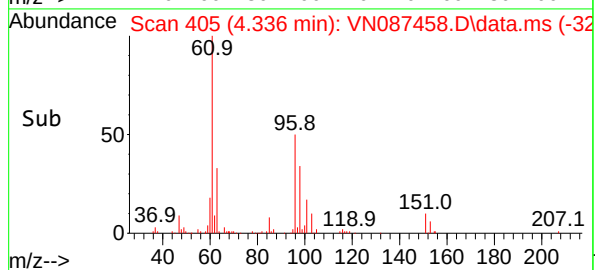
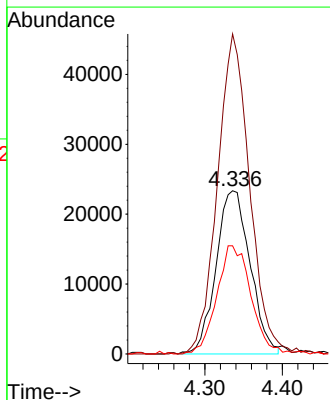
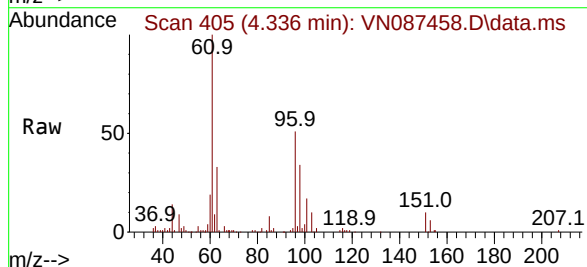
Manual Integrations  
APPROVED

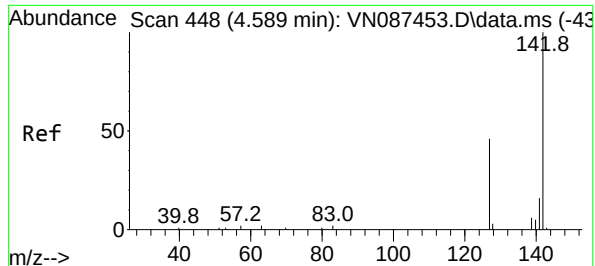
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#10  
1,1-Dichloroethene  
Concen: 18.145 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 96 Resp: 71378  
Ion Ratio Lower Upper  
96 100  
61 196.0 144.2 216.4  
98 66.3 49.7 74.5





#11

Methyl Iodide

Concen: 15.501 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087458.D

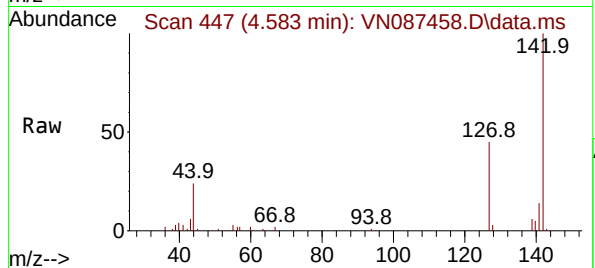
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525



Tgt Ion:142 Resp: 4801

Ion Ratio Lower Upper

142 100

127 43.1 22.9 68.7

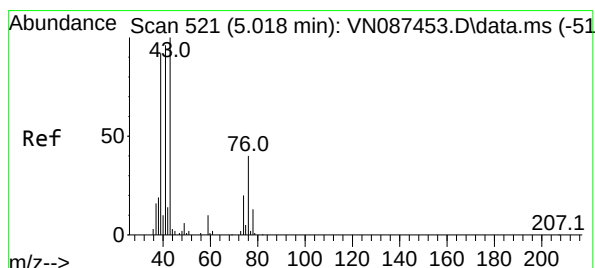
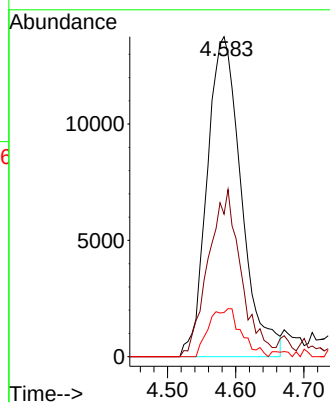
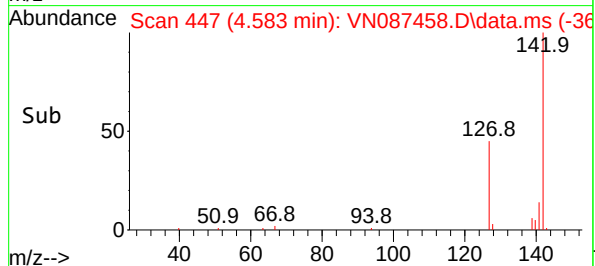
141 13.5 7.7 23.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 18.431 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN087458.D

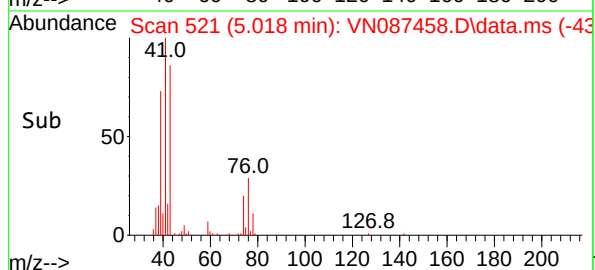
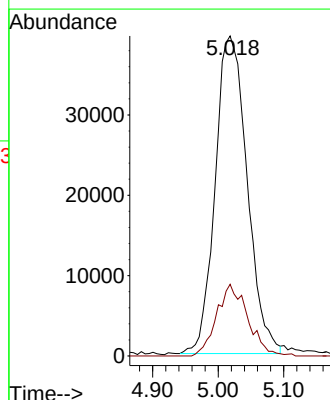
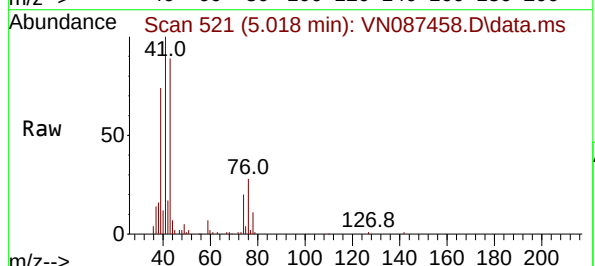
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 133791

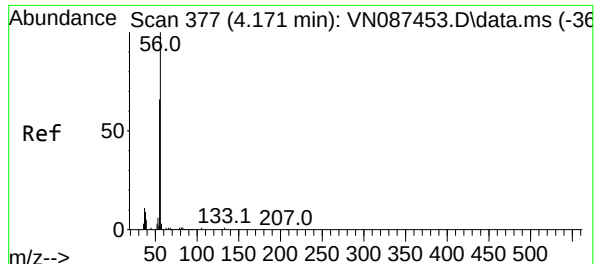
Ion Ratio Lower Upper

43 100

74 22.5 16.0 24.0







#13

Acrolein

Concen: 103.668 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 56 Resp: 114938

Ion Ratio Lower Upper

56 100

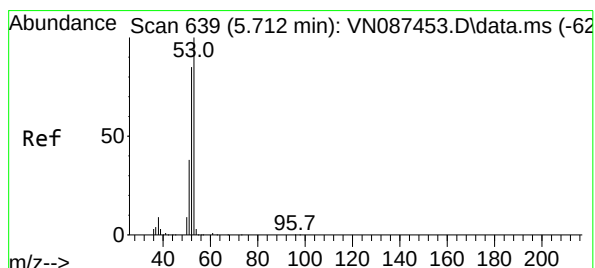
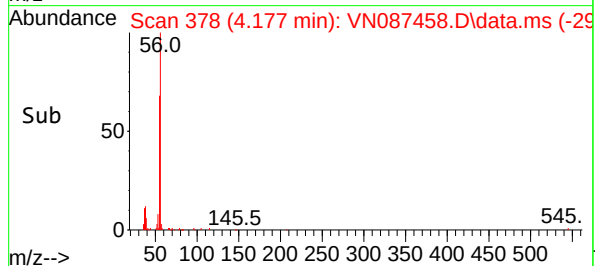
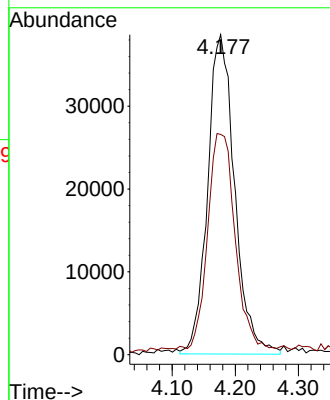
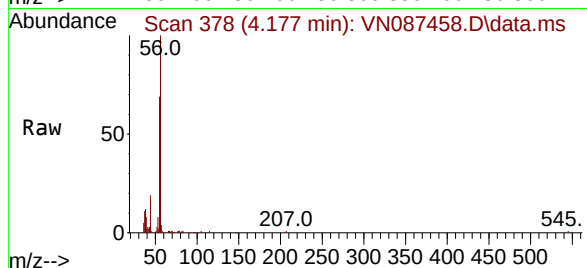
55 70.2 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 90.843 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

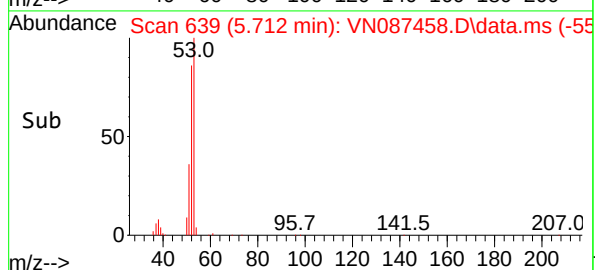
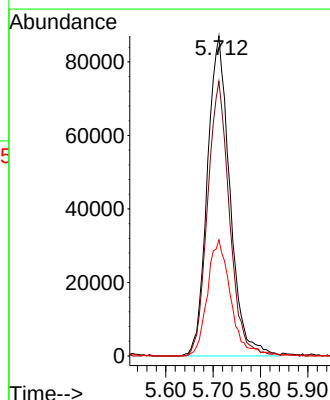
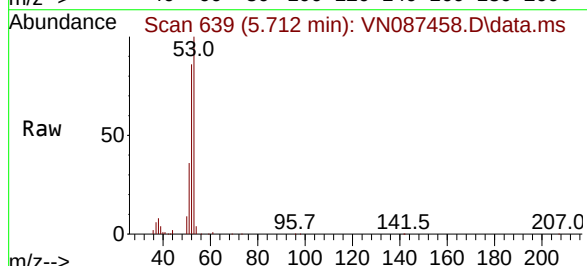
Tgt Ion: 53 Resp: 287956

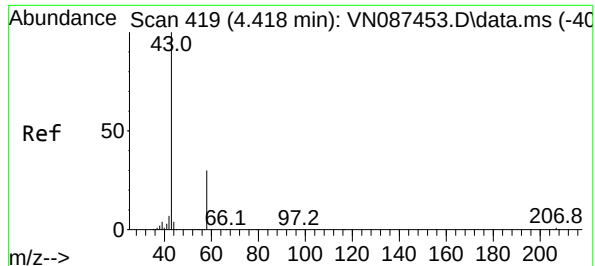
Ion Ratio Lower Upper

53 100

52 82.7 42.4 127.2

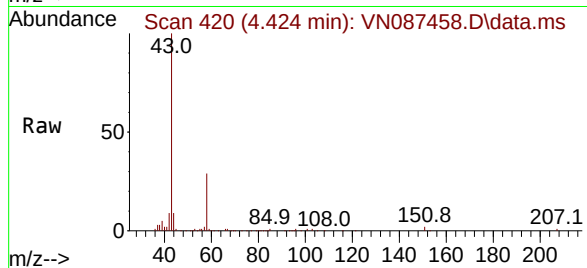
51 36.7 18.5 55.5





#15  
Acetone  
Concen: 98.134 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

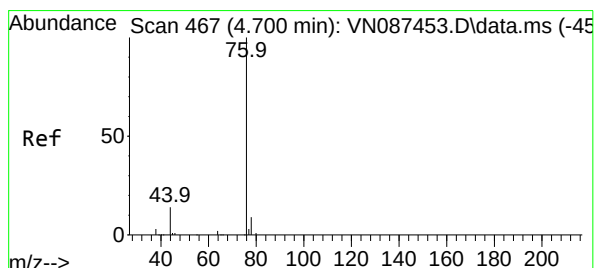
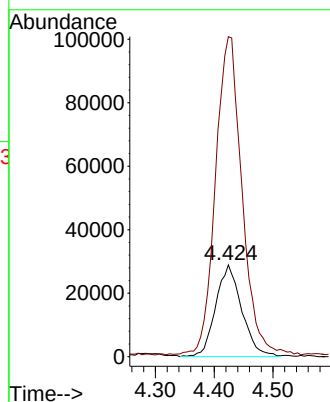
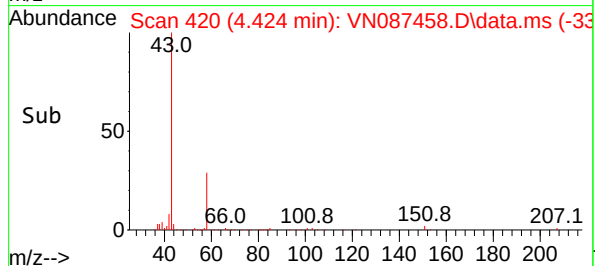
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 58 Resp: 88879  
Ion Ratio Lower Upper  
58 100  
43 345.4 268.9 403.3

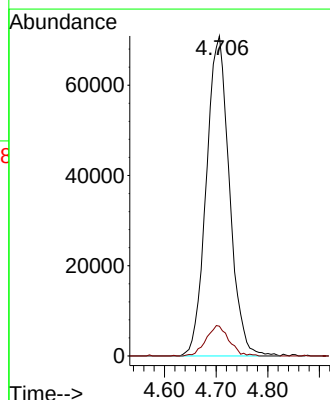
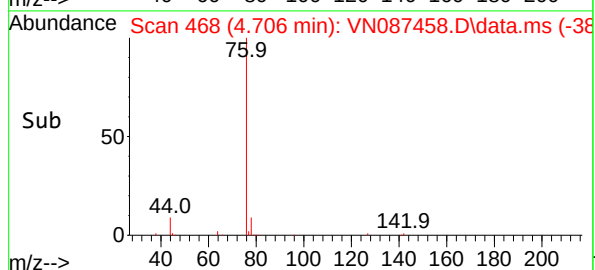
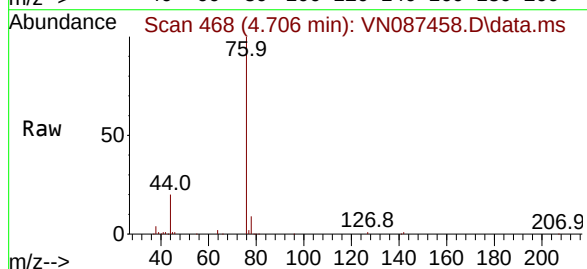
Manual Integrations  
APPROVED

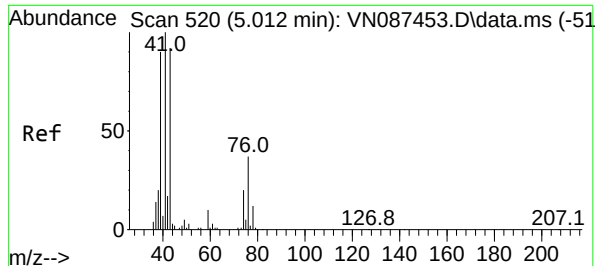
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#16  
Carbon Disulfide  
Concen: 18.028 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 219977  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7





#17

Allyl chloride

Concen: 18.683 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

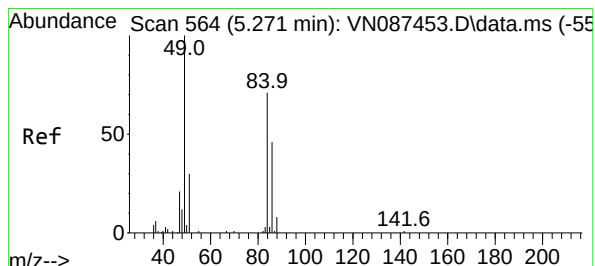
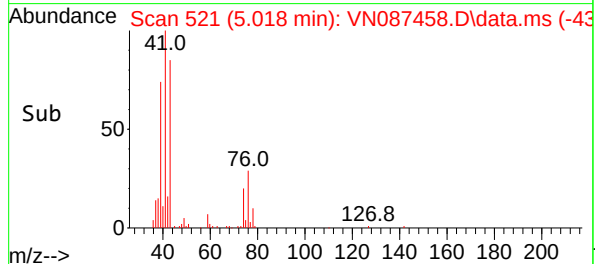
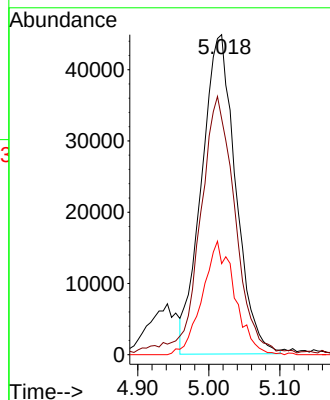
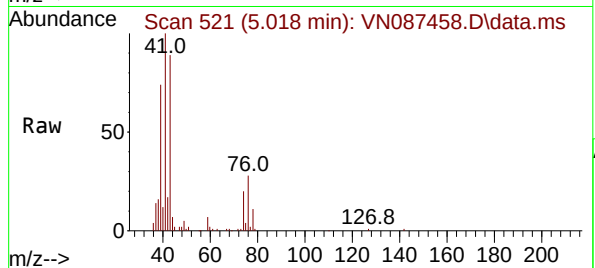
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 149799 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 73.4  | 42.4  | 127.2  |
| 76       | 28.3  | 16.9  | 50.6   |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 18.387 ug/l

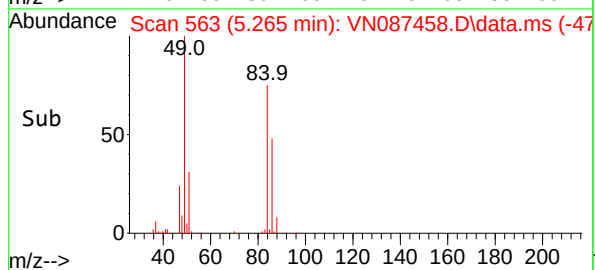
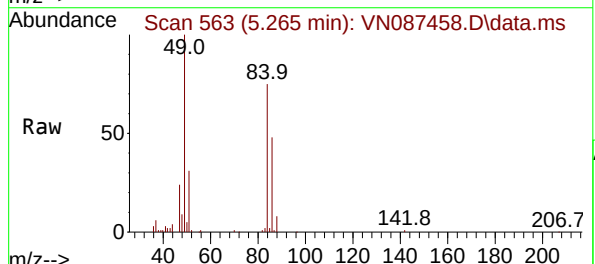
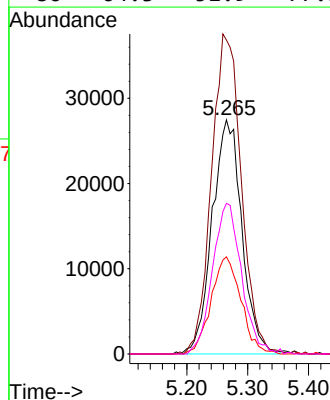
RT: 5.265 min Scan# 563

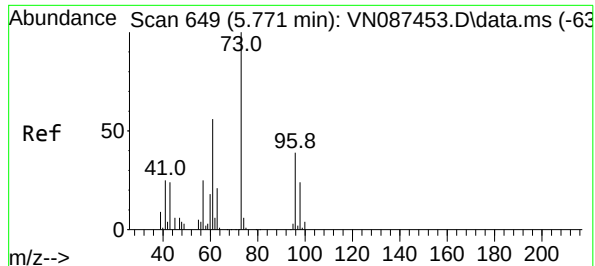
Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 93115 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 133.2 | 112.9 | 169.3 |
| 51       | 41.5  | 33.8  | 50.8  |
| 86       | 64.3  | 51.9  | 77.9  |





#19

trans-1,2-Dichloroethene

Concen: 17.906 ug/l

RT: 5.765 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 96 Resp: 83760

Ion Ratio Lower Upper

96 100

61 139.1 114.2 171.4

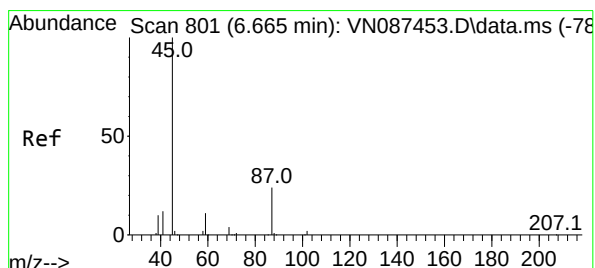
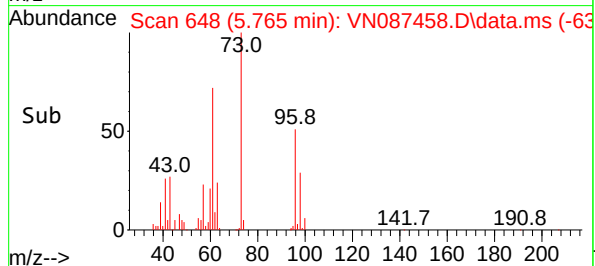
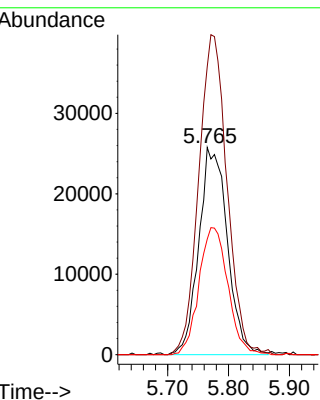
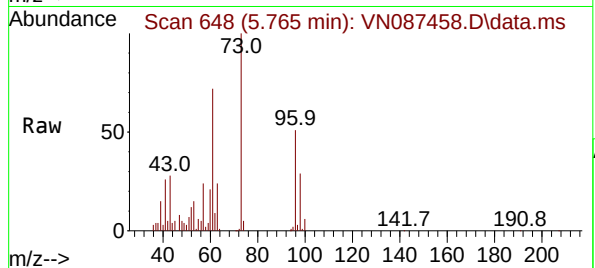
98 55.8 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 17.917 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion: 45 Resp: 327254

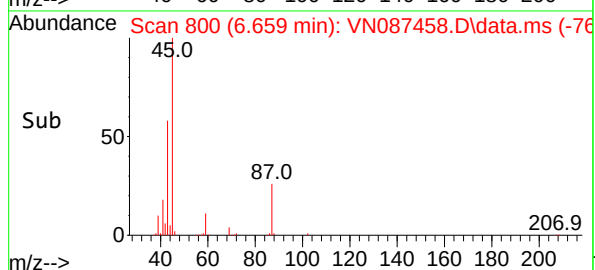
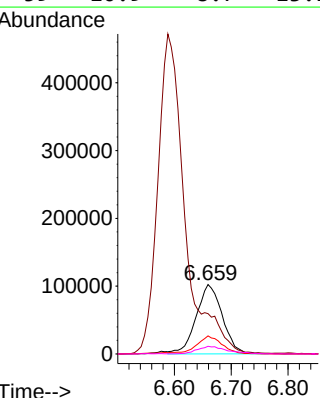
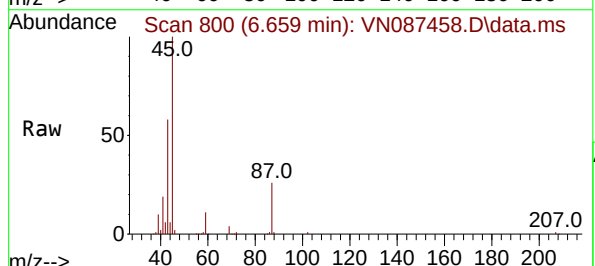
Ion Ratio Lower Upper

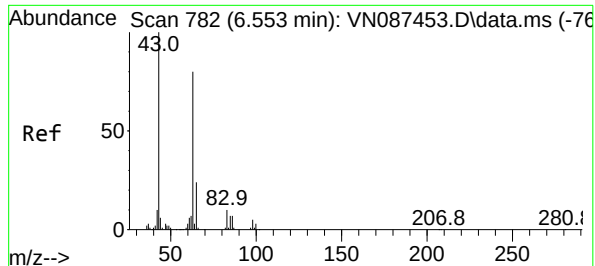
45 100

43 57.1 44.7 67.1

87 25.8 20.2 30.2

59 10.9 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.134 ug/l

RT: 6.559 min Scan# 782

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 63 Resp: 171210

Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.0

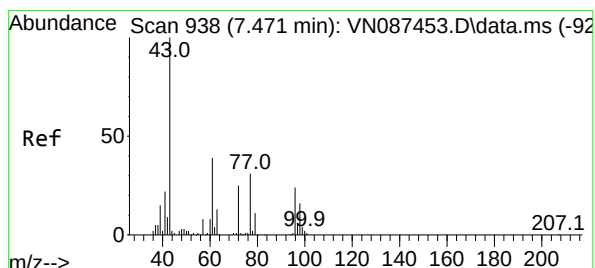
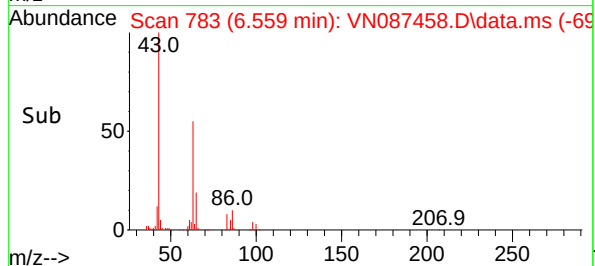
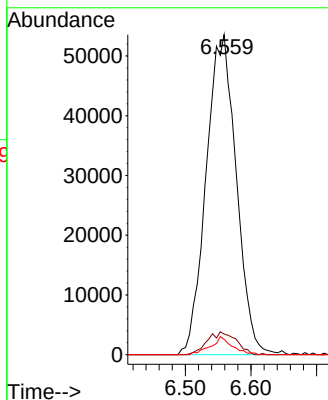
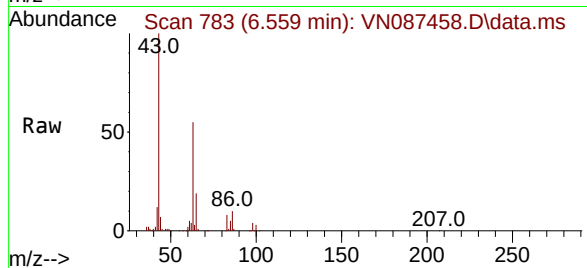
100 4.8 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 18.023 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

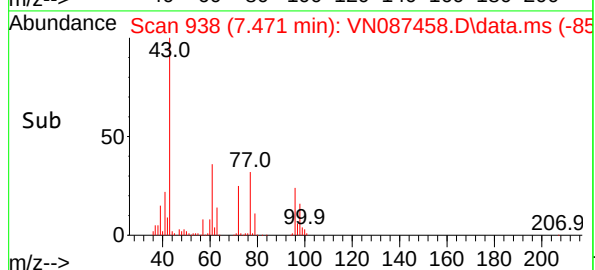
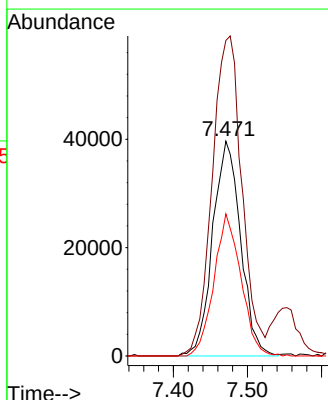
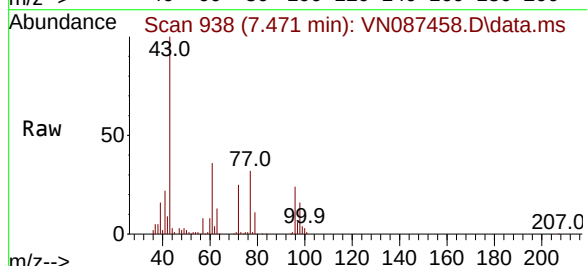
Tgt Ion: 96 Resp: 103737

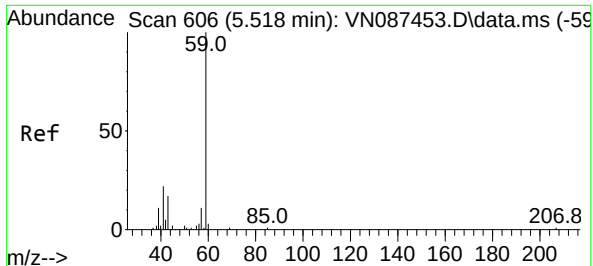
Ion Ratio Lower Upper

96 100

61 158.5 126.6 190.0

98 63.7 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 95.030 ug/l

RT: 5.530 min Scan# 606

Delta R.T. 0.012 min

Lab File: VN087458.D

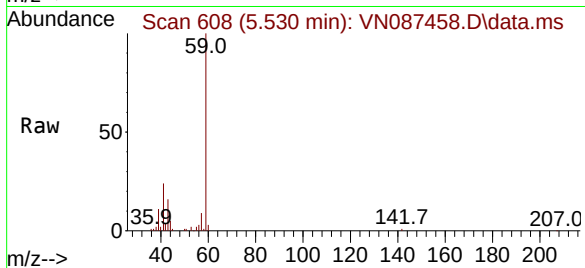
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525



Tgt Ion: 59 Resp: 128000

Ion Ratio Lower Upper

59 100

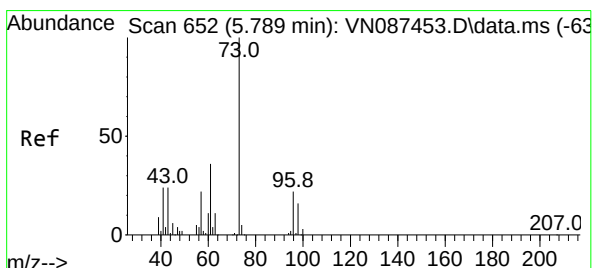
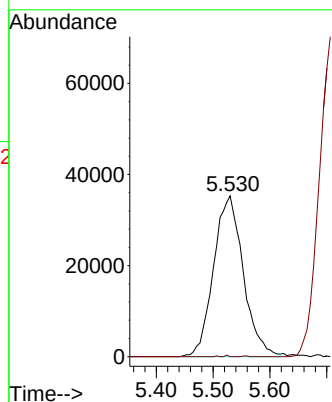
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 18.116 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN087458.D

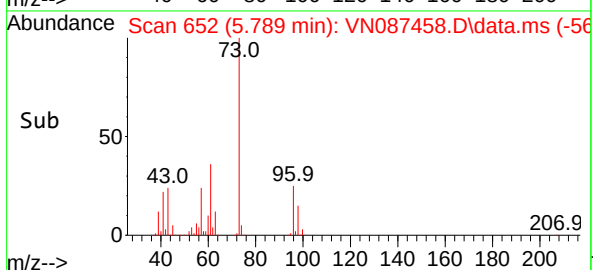
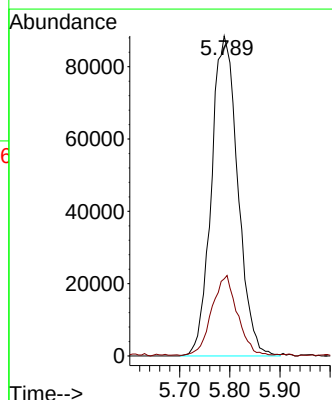
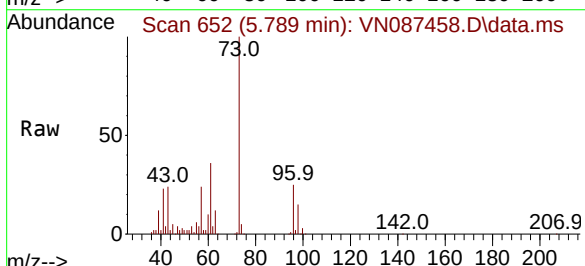
Acq: 05 Aug 2025 15:43

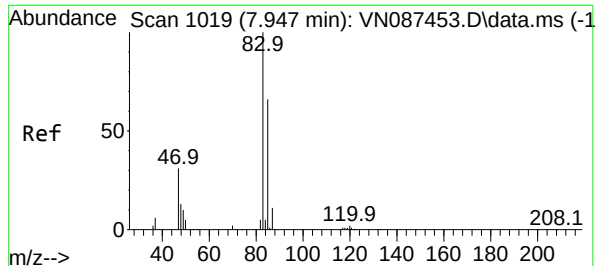
Tgt Ion: 73 Resp: 324724

Ion Ratio Lower Upper

73 100

43 24.0 19.9 29.9





#25

Chloroform

Concen: 18.021 ug/l

RT: 7.953 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 83 Resp: 177598

Ion Ratio Lower Upper

83 100

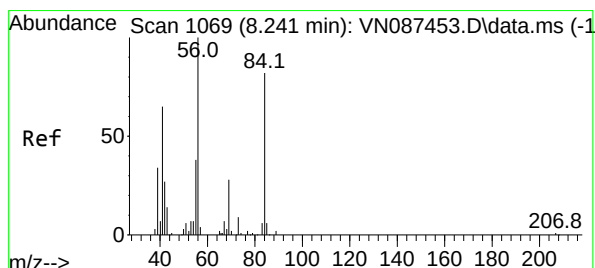
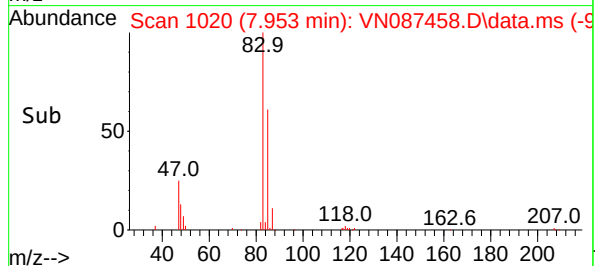
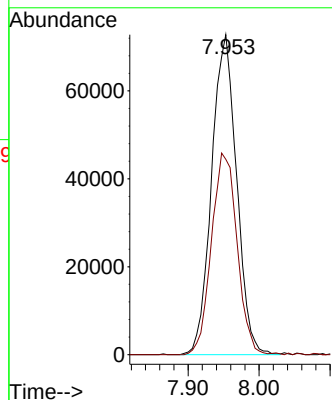
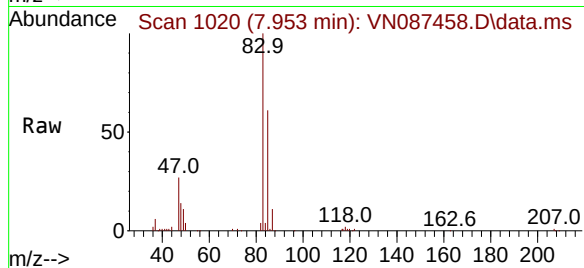
85 61.1 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 17.977 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

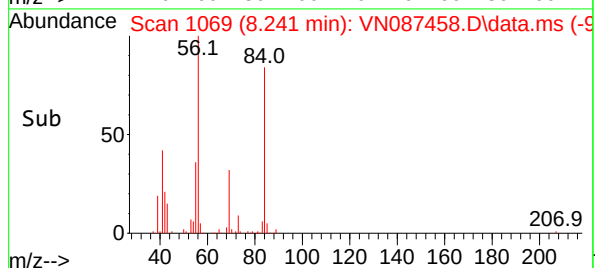
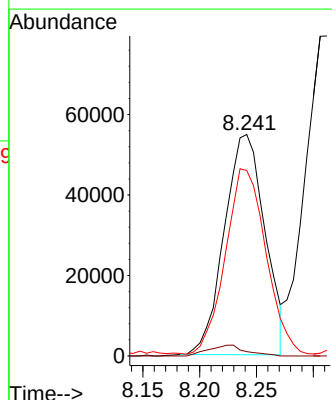
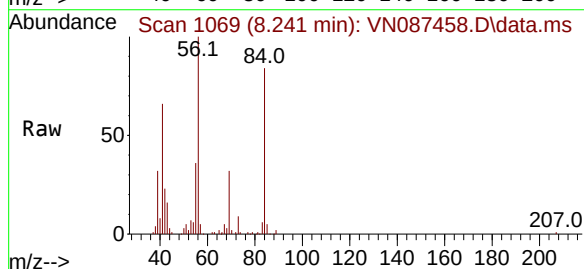
Tgt Ion: 56 Resp: 135890

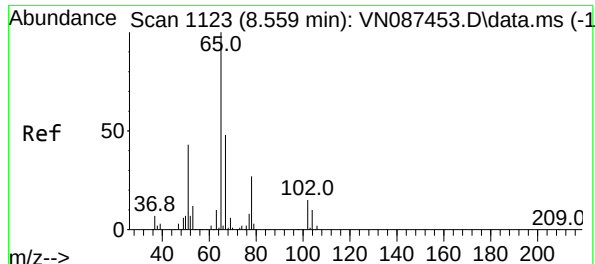
Ion Ratio Lower Upper

56 100

89 4.5 2.3 3.5

84 84.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.545 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 65 Resp: 20234

Ion Ratio Lower Upper

65 100

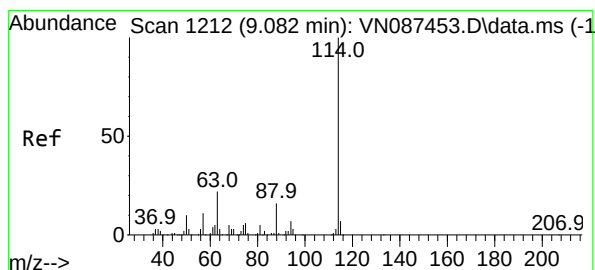
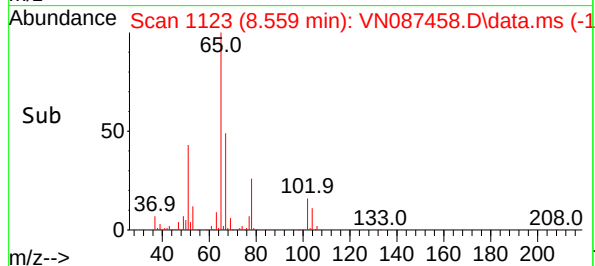
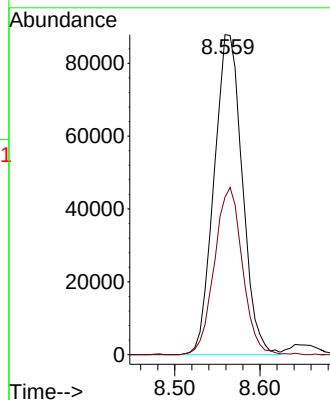
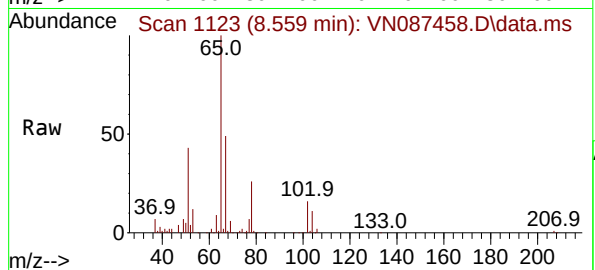
67 51.8 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

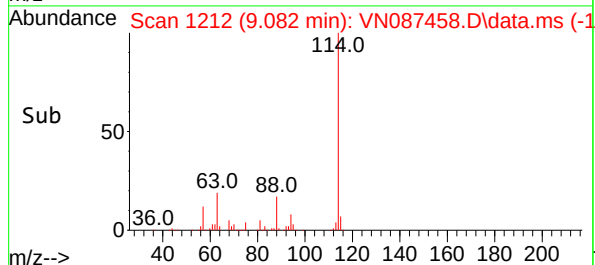
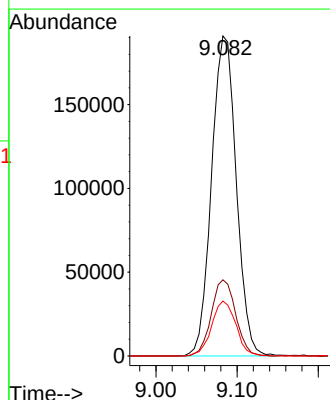
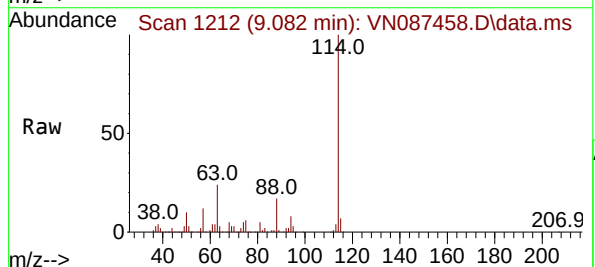
Tgt Ion:114 Resp: 404390

Ion Ratio Lower Upper

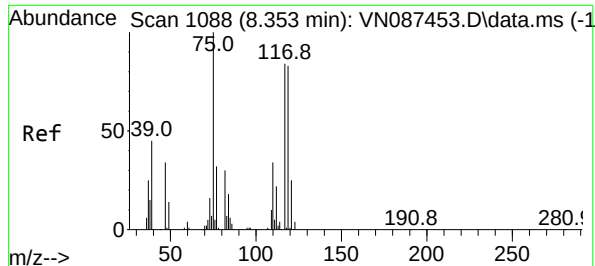
114 100

63 23.5 18.9 28.3

88 16.8 13.1 19.7







#29

1,1-Dichloropropene

Concen: 17.825 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 75 Resp: 11756

Ion Ratio Lower Upper

75 100

110 31.3 0.0 65.8

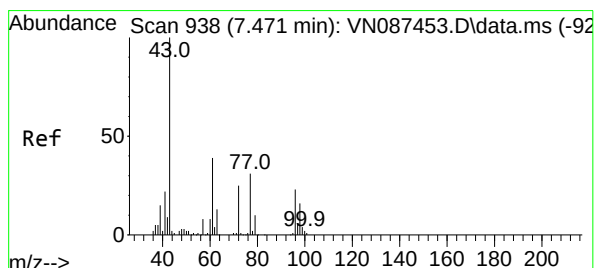
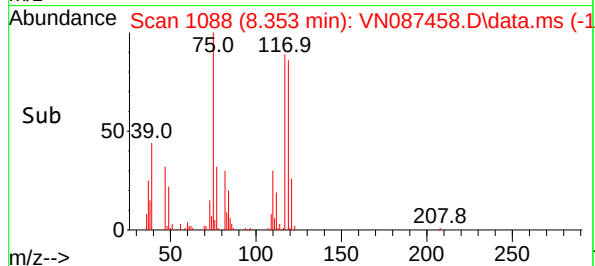
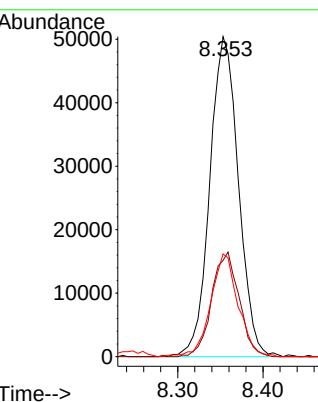
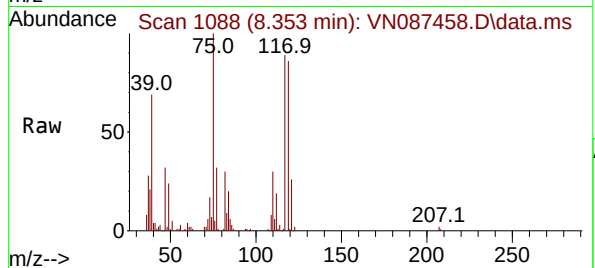
77 31.0 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 89.621 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

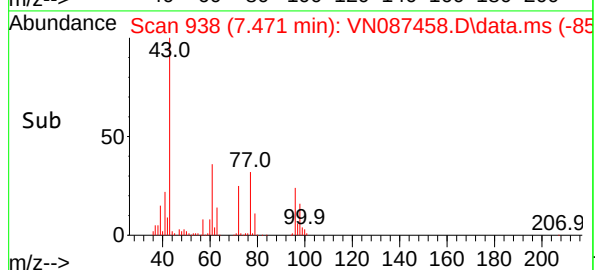
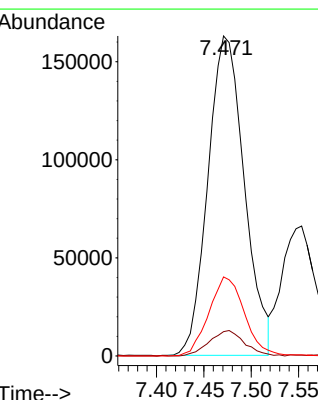
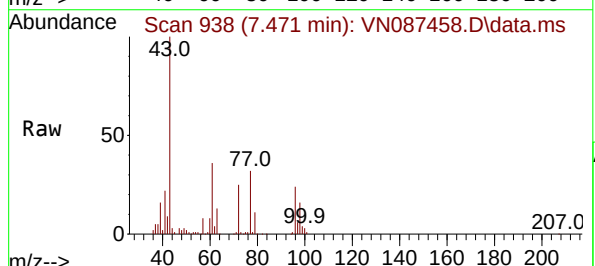
Tgt Ion: 43 Resp: 435716

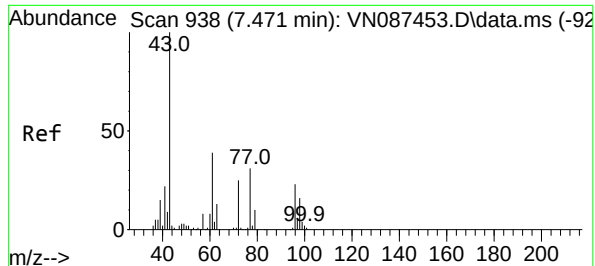
Ion Ratio Lower Upper

43 100

57 7.7 6.6 9.8

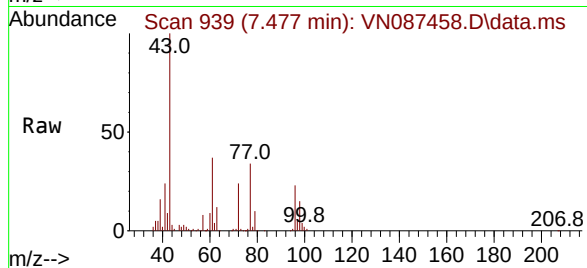
72 24.2 19.7 29.5





#31  
2,2-Dichloropropane  
Concen: 18.630 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

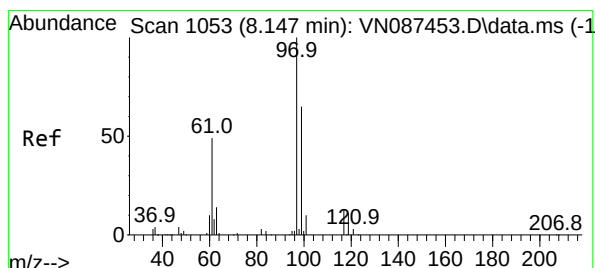
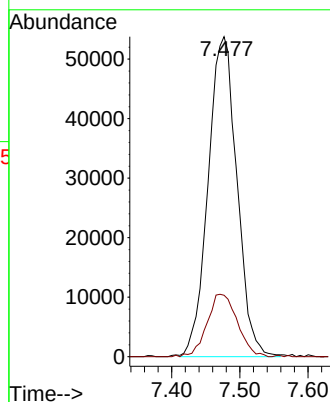
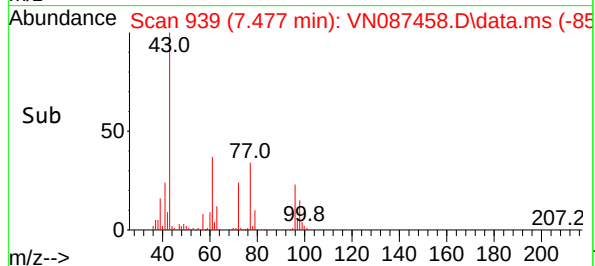
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 77 Resp: 15848  
Ion Ratio Lower Upper  
77 100  
97 20.2 16.7 25.1

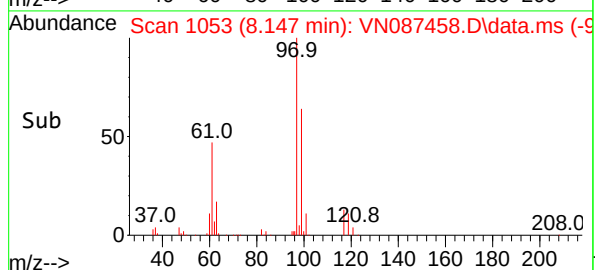
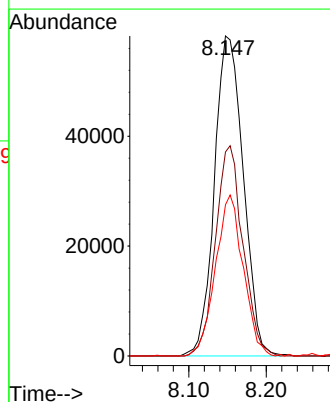
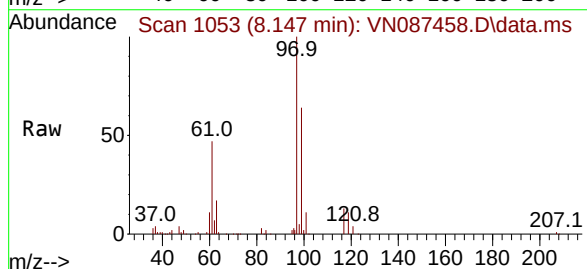
Manual Integrations  
APPROVED

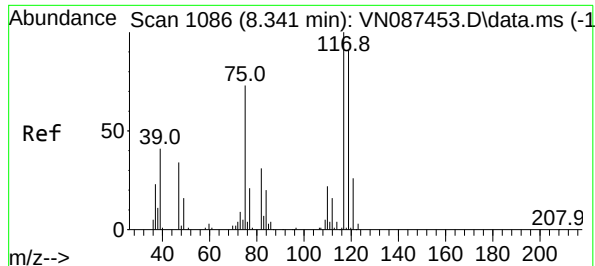
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#32  
1,1,1-Trichloroethane  
Concen: 17.988 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

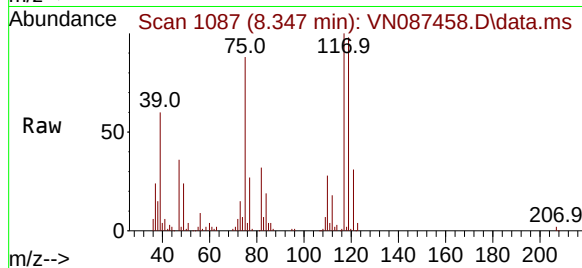
Tgt Ion: 97 Resp: 151313  
Ion Ratio Lower Upper  
97 100  
99 62.5 53.0 79.6  
61 48.3 40.6 61.0





#33  
Carbon Tetrachloride  
Concen: 17.777 ug/l  
RT: 8.347 min Scan# 1086  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

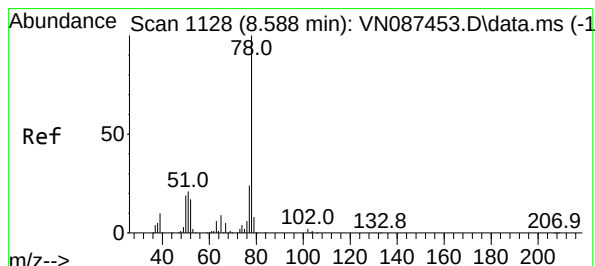
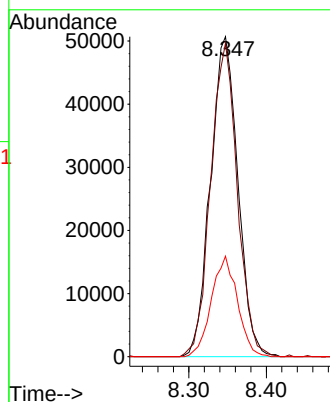
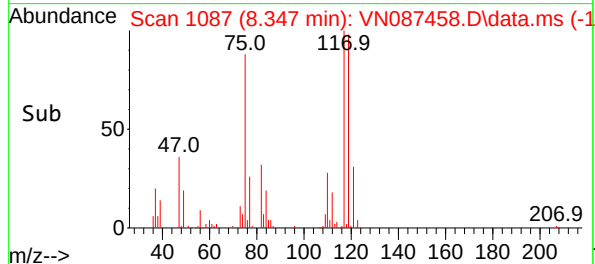
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 117 Resp: 12423  
Ion Ratio Lower Upper  
117 100  
119 97.9 73.4 110.0  
121 31.4 21.1 31.7

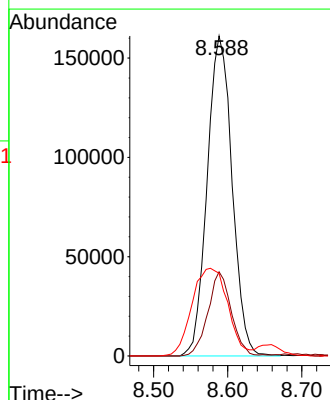
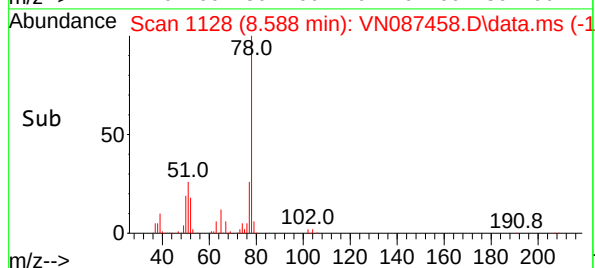
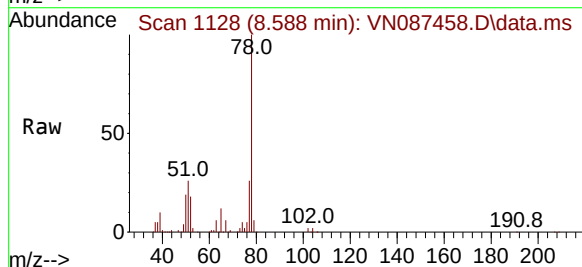
Manual Integrations  
APPROVED

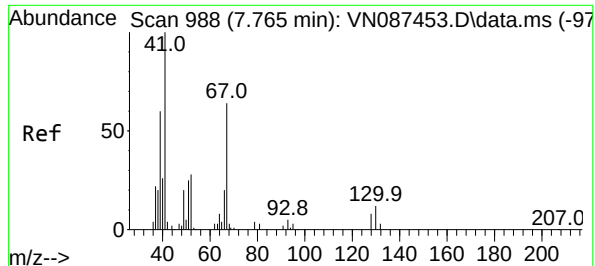
Reviewed By : John Carlone 08/06/2025  
Supervised By : Mahesh Dadoda 08/06/2025



#34  
Benzene  
Concen: 18.060 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

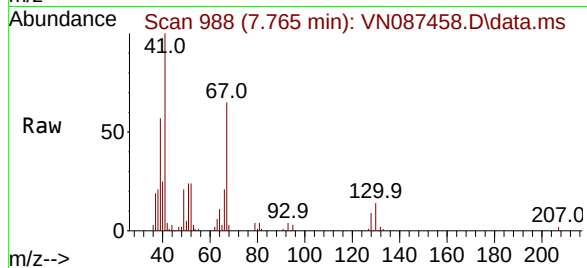
Tgt Ion: 78 Resp: 376019  
Ion Ratio Lower Upper  
78 100  
77 26.3 19.2 28.8  
51 23.8 16.9 25.3





#35  
Methacrylonitrile  
Concen: 18.163 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

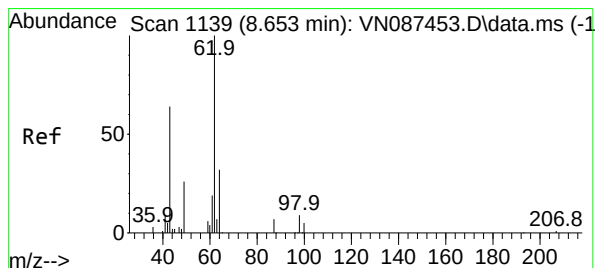
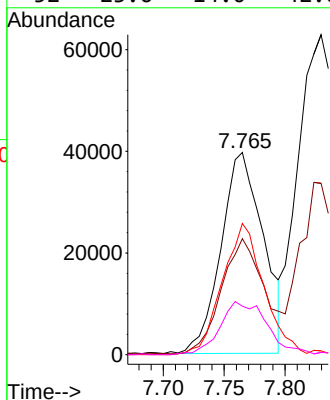
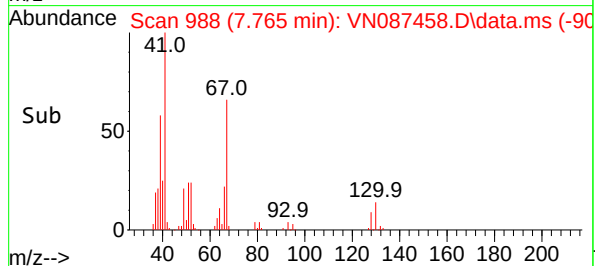
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 41 Resp: 95290  
Ion Ratio Lower Upper  
41 100  
39 57.4 30.1 90.5  
67 65.1 32.0 96.2  
52 23.6 14.0 42.0

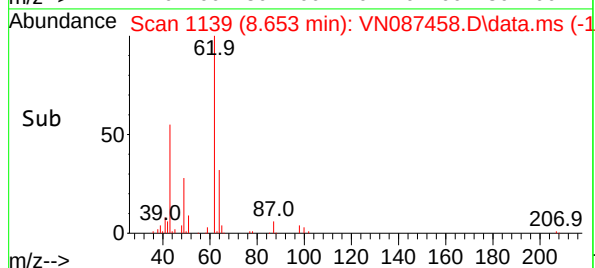
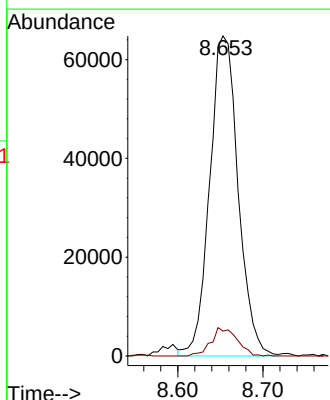
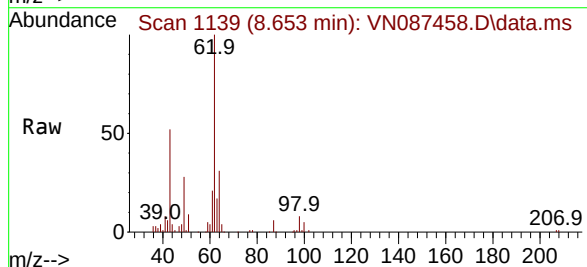
Manual Integrations  
APPROVED

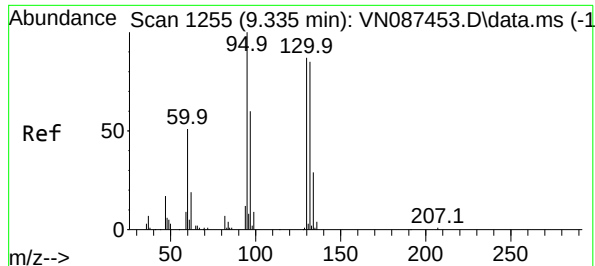
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#36  
1,2-Dichloroethane  
Concen: 17.918 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 62 Resp: 150784  
Ion Ratio Lower Upper  
62 100  
98 8.0 6.6 9.8





#37

Trichloroethene

Concen: 18.041 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion:130 Resp: 8274

Ion Ratio Lower Upper

130 100

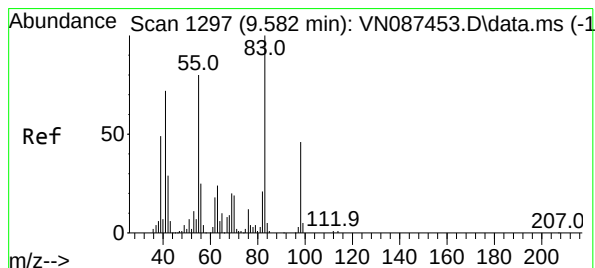
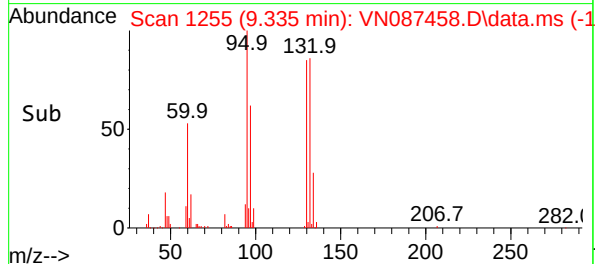
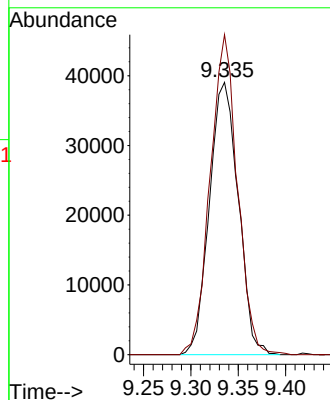
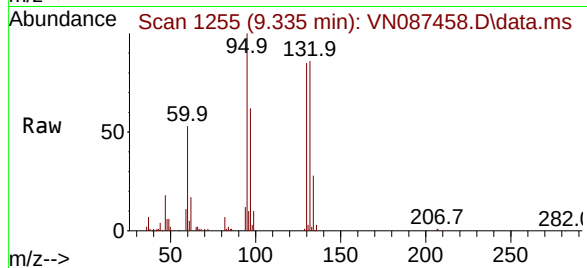
95 117.5 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 17.882 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

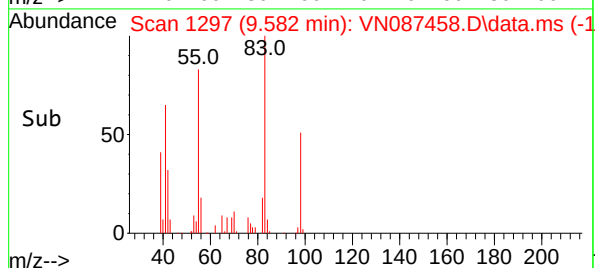
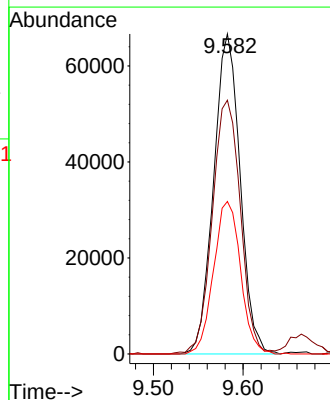
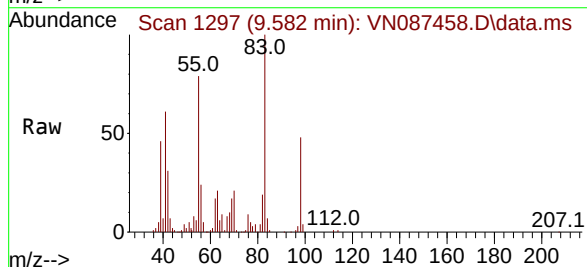
Tgt Ion: 83 Resp: 136830

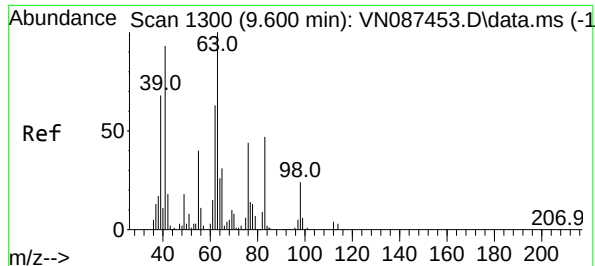
Ion Ratio Lower Upper

83 100

55 83.4 41.2 123.6

98 48.5 23.3 69.9





#39

1,2-Dichloropropane

Concen: 17.793 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 63 Resp: 9498

Ion Ratio Lower Upper

63 100

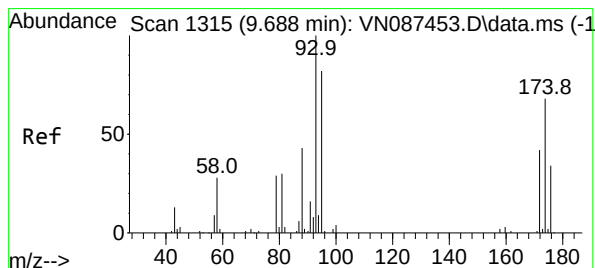
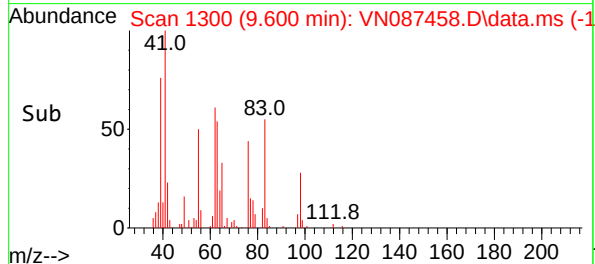
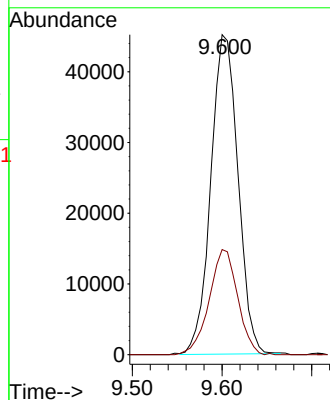
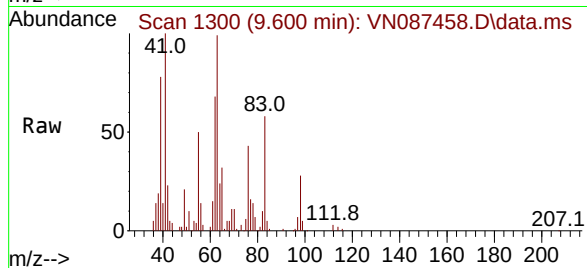
65 33.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 17.288 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

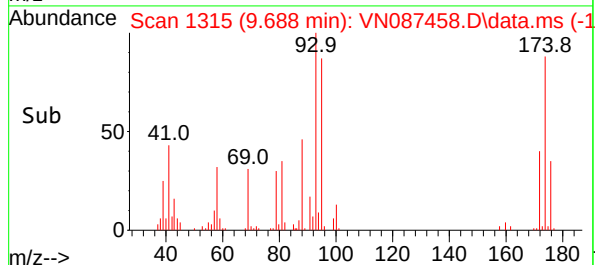
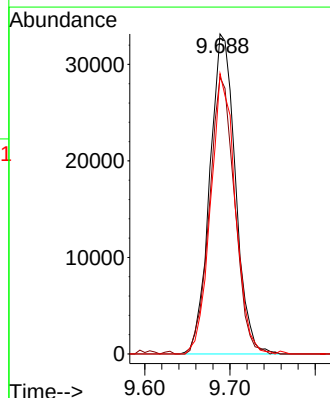
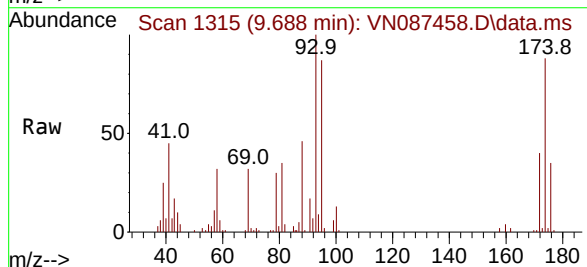
Tgt Ion: 93 Resp: 69241

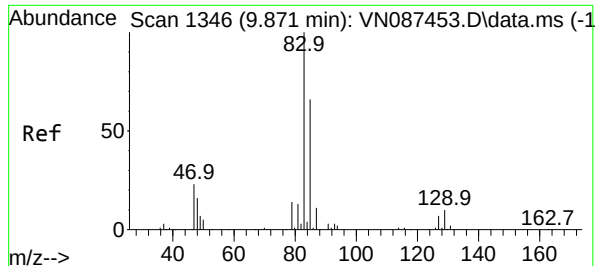
Ion Ratio Lower Upper

93 100

95 84.9 0.0 161.6

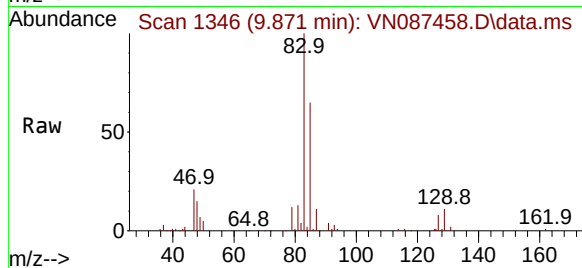
174 84.1 0.0 151.4





#41  
Bromodichloromethane  
Concen: 17.583 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

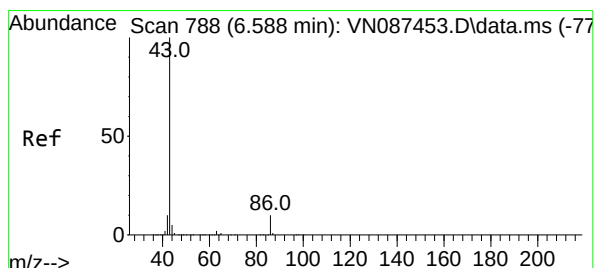
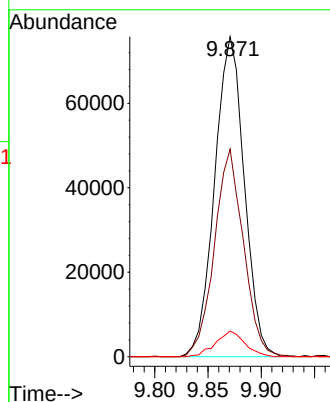
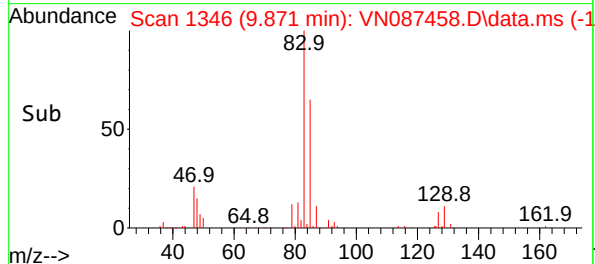
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 83 Resp: 146339  
Ion Ratio Lower Upper  
83 100  
85 64.8 52.9 79.3  
127 8.0 5.8 8.6

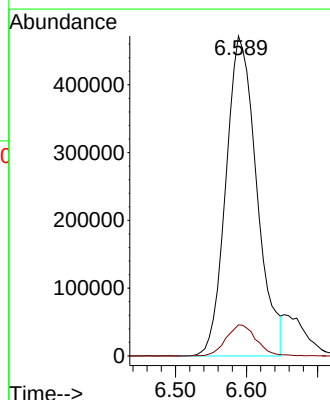
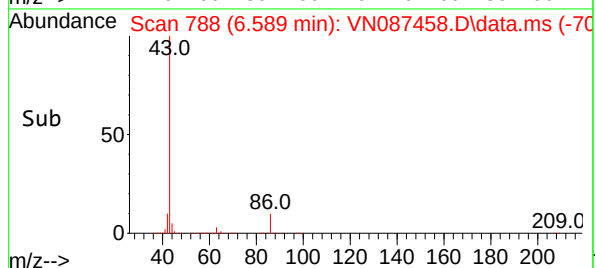
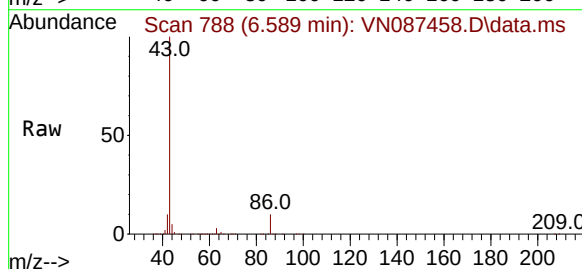
Manual Integrations  
APPROVED

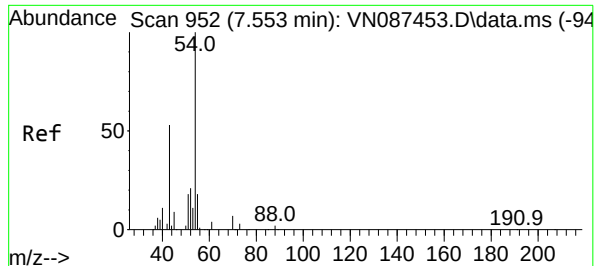
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#42  
Vinyl Acetate  
Concen: 88.913 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 1423556  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 18.279 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087458.D

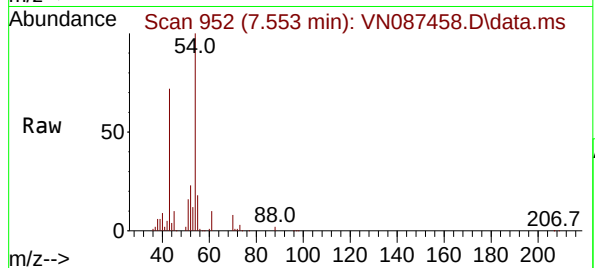
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525



Tgt Ion: 43 Resp: 171684

Ion Ratio Lower Upper

43 100

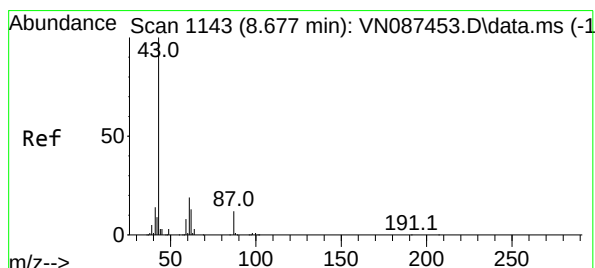
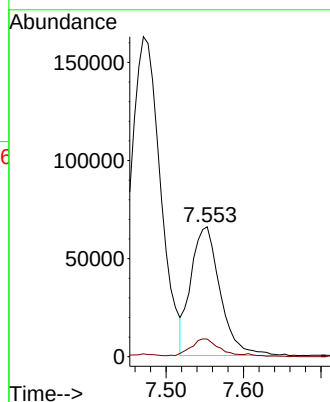
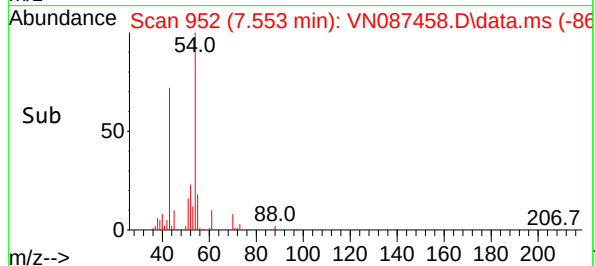
45 13.7 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 17.492 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087458.D

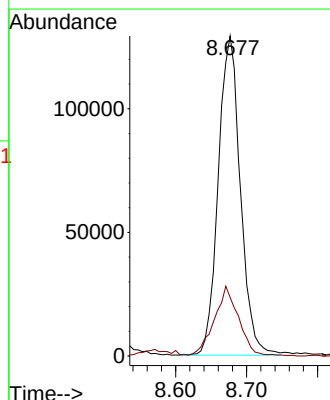
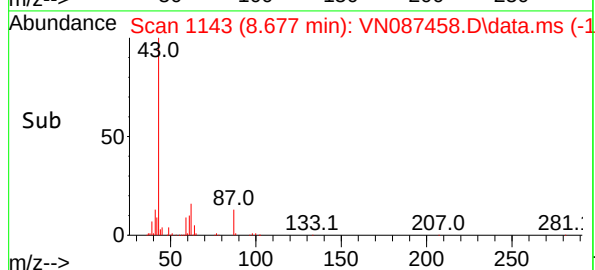
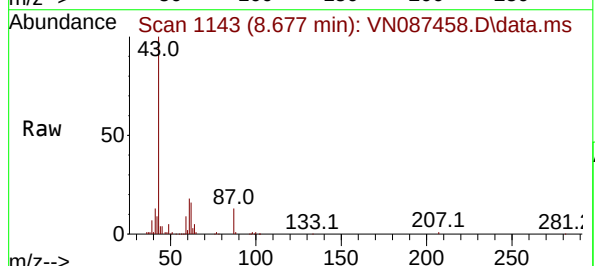
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 278498

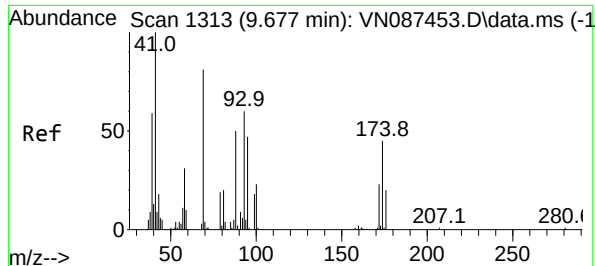
Ion Ratio Lower Upper

43 100

61 23.3 18.6 28.0







#45

1,4-Dioxane

Concen: 377.572 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 88 Resp: 3832

Ion Ratio Lower Upper

88 100

43 30.6 24.1 36.1

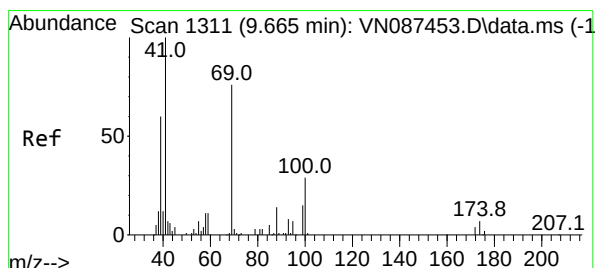
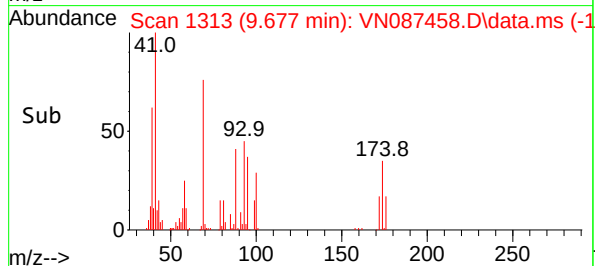
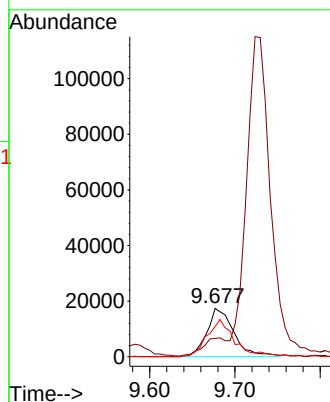
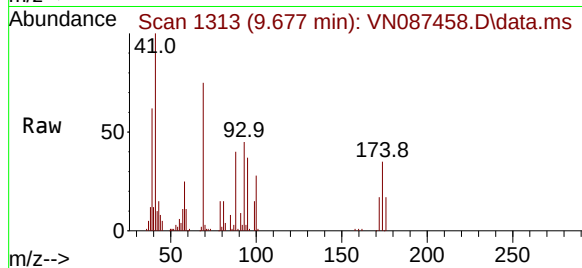
58 73.3 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 16.972 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

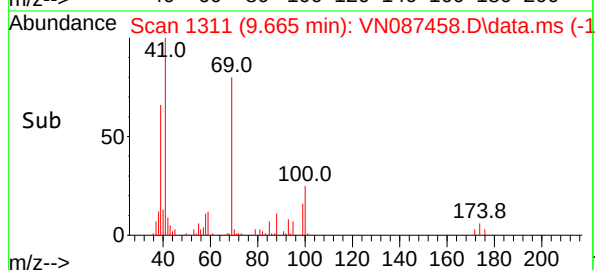
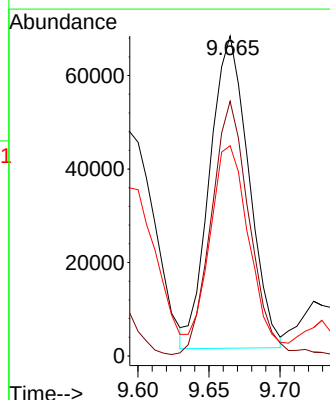
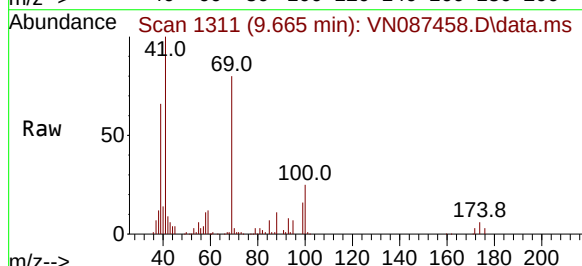
Tgt Ion: 41 Resp: 127548

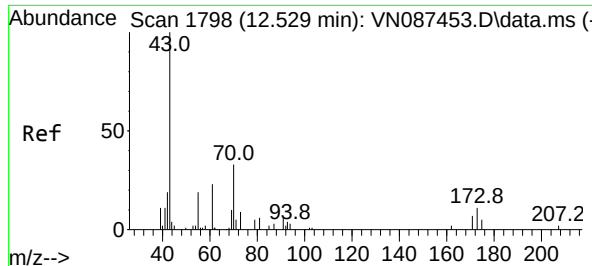
Ion Ratio Lower Upper

41 100

69 83.5 37.1 111.5

39 65.2 30.7 92.1





#47

n-amy1 Acetate

Concen: 16.611 ug/l m

RT: 12.523 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion: 43 Resp: 146094

Ion Ratio Lower Upper

43 100

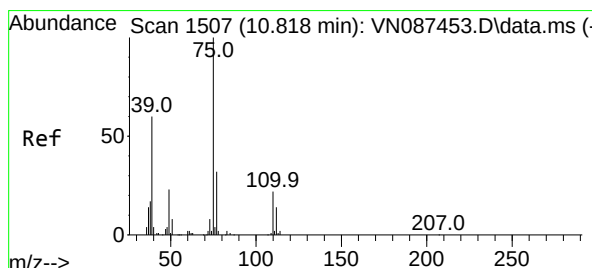
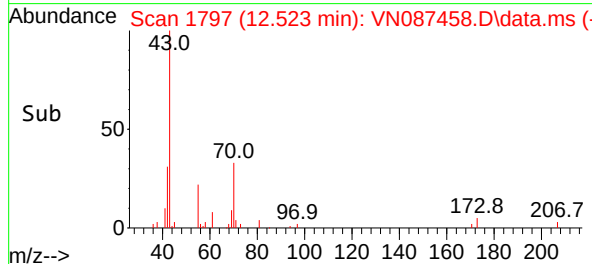
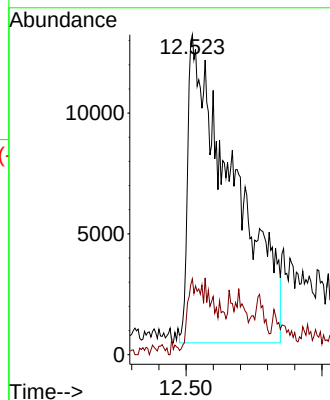
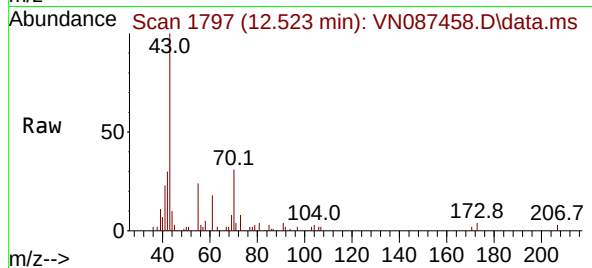
55 3.4 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 17.415 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087458.D

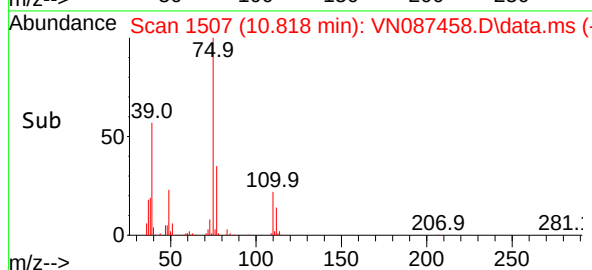
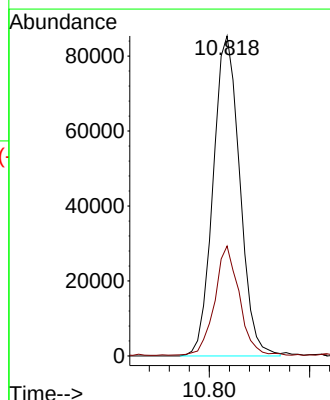
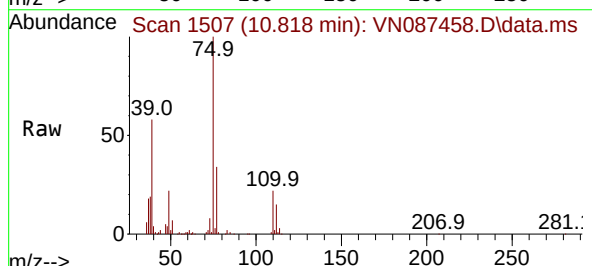
Acq: 05 Aug 2025 15:43

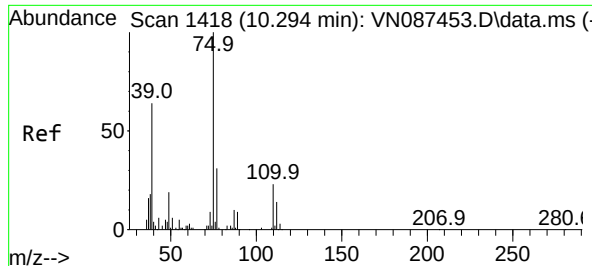
Tgt Ion: 75 Resp: 157686

Ion Ratio Lower Upper

75 100

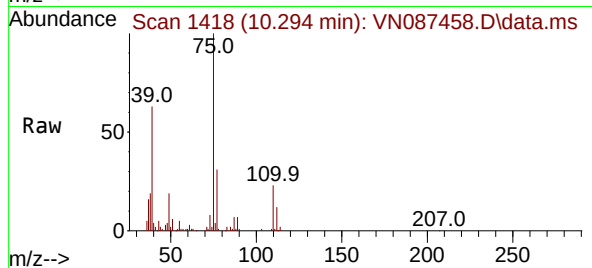
77 34.0 25.3 37.9





#49  
cis-1,3-Dichloropropene  
Concen: 17.812 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

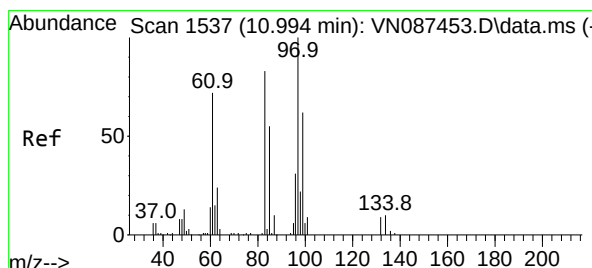
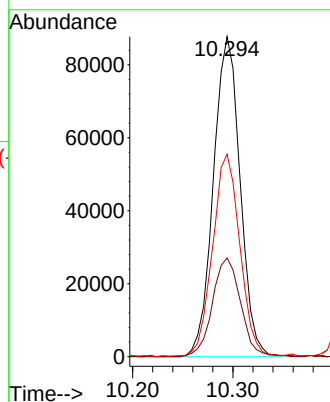
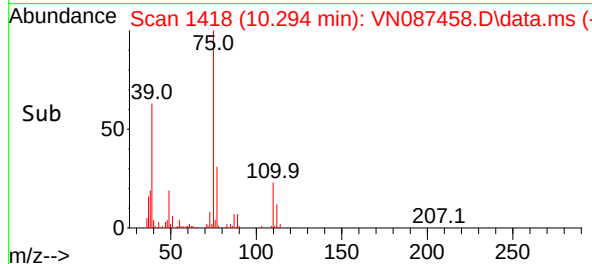
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 75 Resp: 162308  
Ion Ratio Lower Upper  
75 100  
77 30.8 24.6 36.8  
39 62.9 51.5 77.3

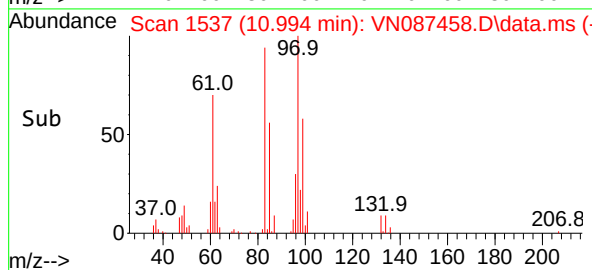
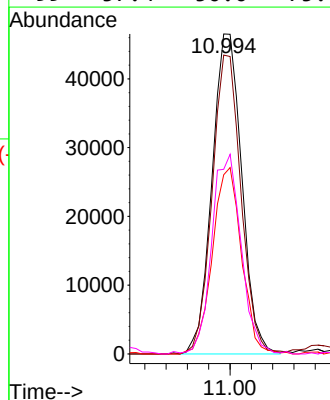
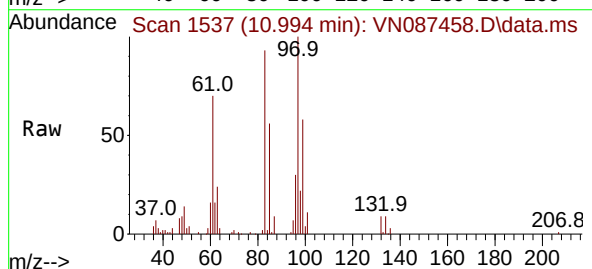
Manual Integrations  
APPROVED

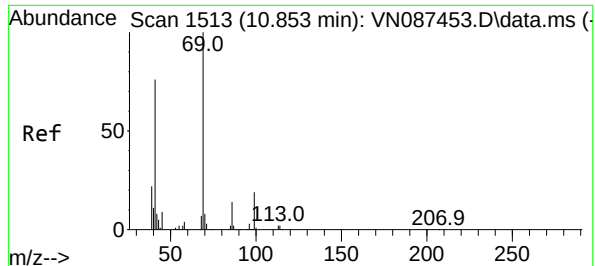
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#50  
1,1,2-Trichloroethane  
Concen: 17.791 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

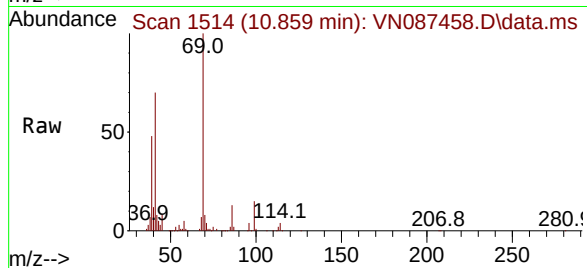
Tgt Ion: 97 Resp: 90030  
Ion Ratio Lower Upper  
97 100  
83 93.4 66.2 99.2  
85 56.0 43.9 65.9  
99 57.4 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 17.260 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

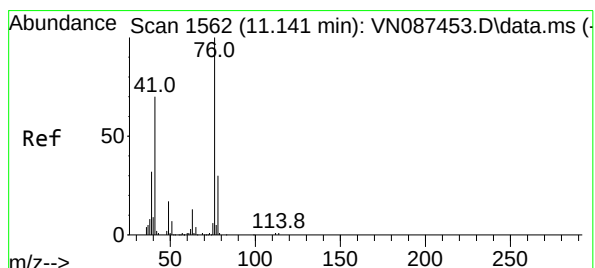
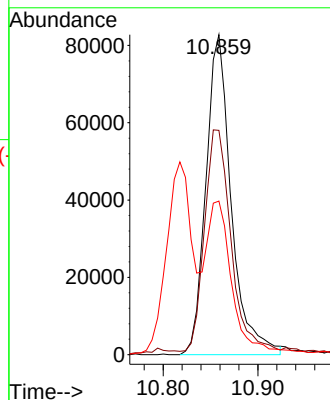
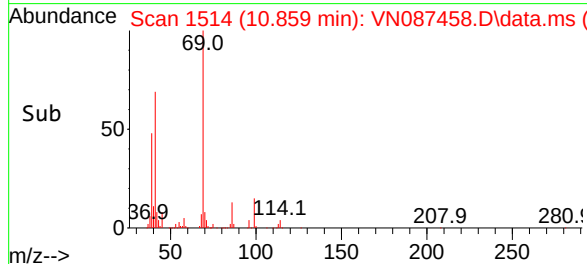
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 69 Resp: 15382  
Ion Ratio Lower Upper  
69 100  
41 69.0 38.0 114.1  
39 46.4 23.2 69.5

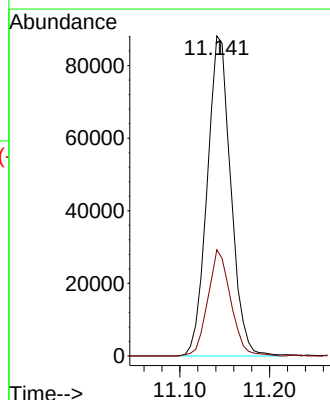
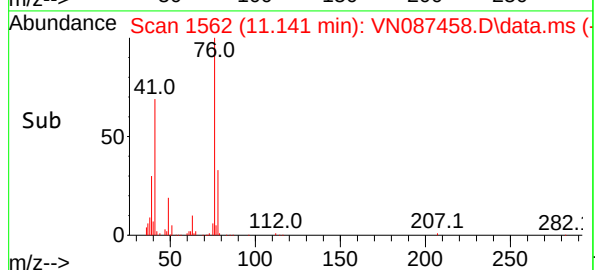
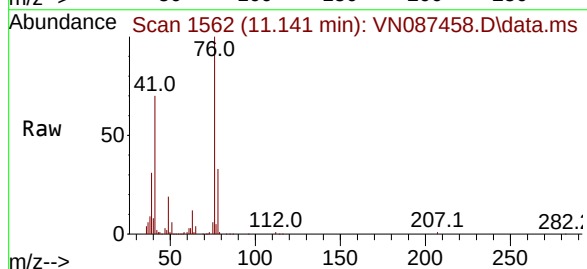
Manual Integrations  
APPROVED

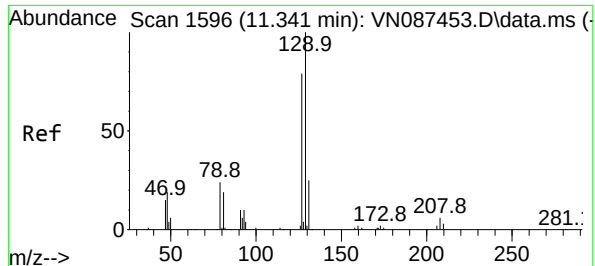
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#52  
1,3-Dichloropropane  
Concen: 17.664 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

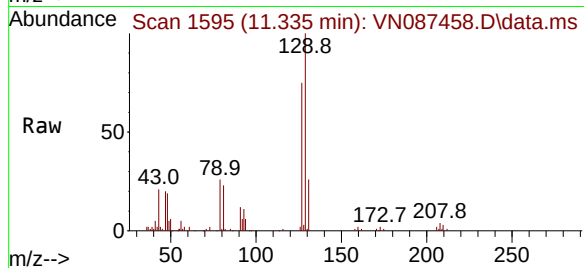
Tgt Ion: 76 Resp: 161040  
Ion Ratio Lower Upper  
76 100  
78 32.1 0.0 63.0





#53  
Dibromochloromethane  
Concen: 17.453 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

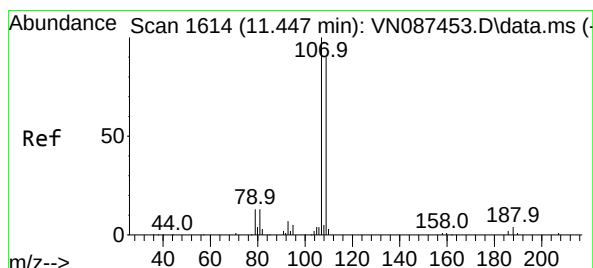
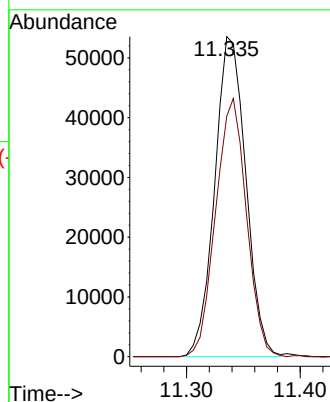
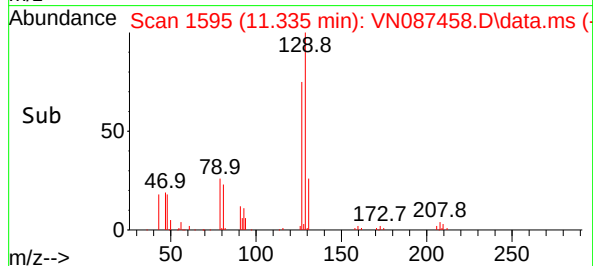
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



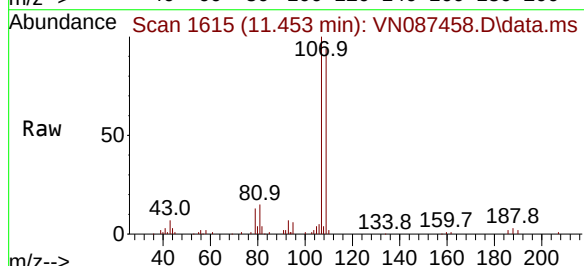
Tgt Ion:129 Resp: 101990  
Ion Ratio Lower Upper  
129 100  
127 79.5 39.1 117.3

Manual Integrations  
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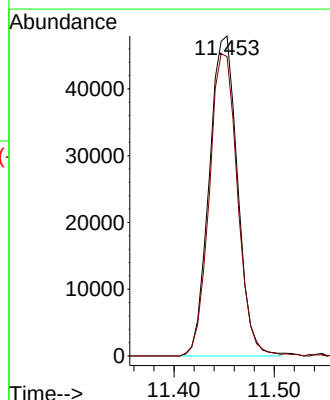
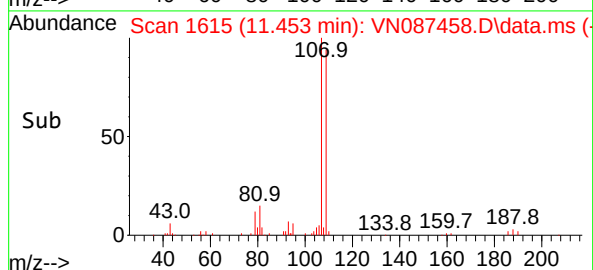
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

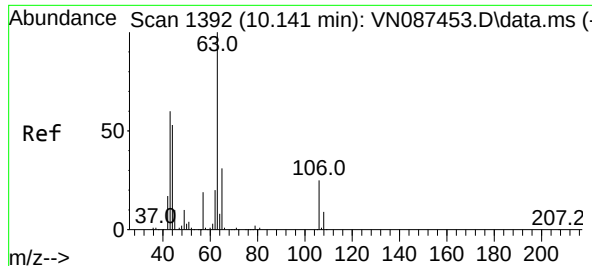


#54  
1,2-Dibromoethane  
Concen: 17.486 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43



Tgt Ion:107 Resp: 93933  
Ion Ratio Lower Upper  
107 100  
109 94.2 74.2 111.4





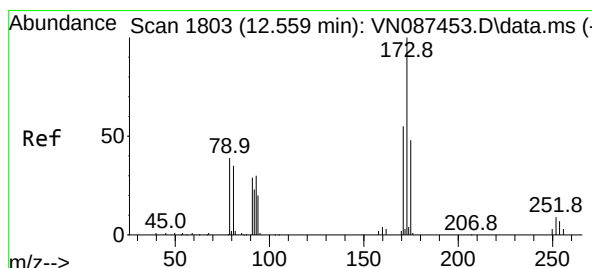
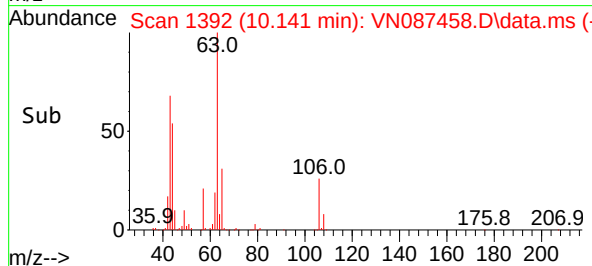
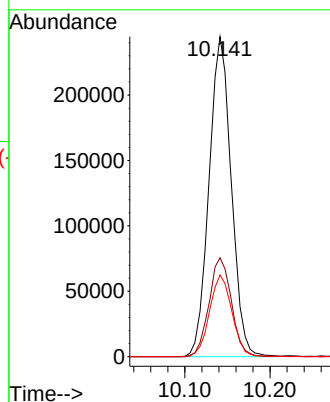
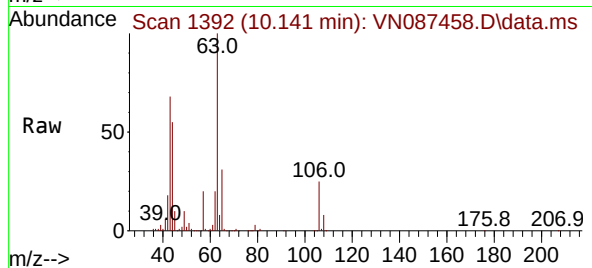
#55  
2-Chloroethyl vinyl ether  
Concen: 94.458 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

Tgt Ion: 63 Resp: 44316  
Ion Ratio Lower Upper  
63 100  
65 31.1 25.7 38.5  
106 25.7 20.7 31.1

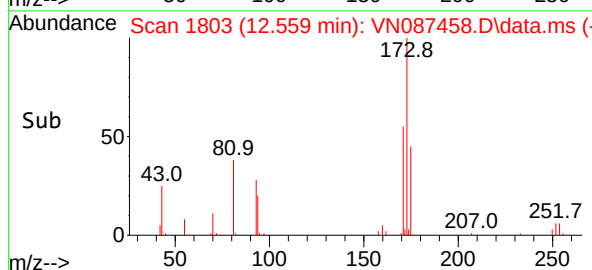
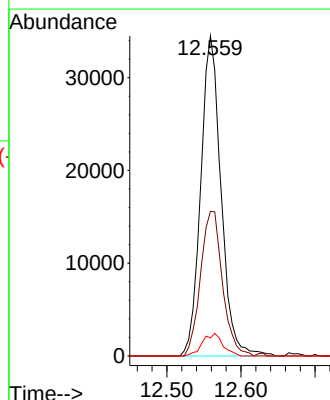
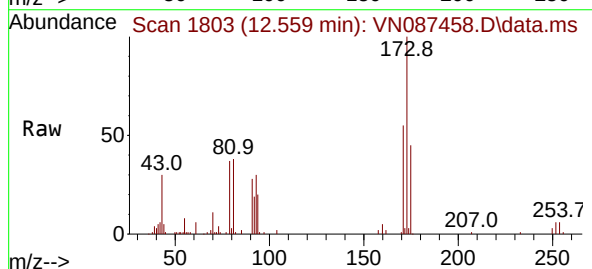
Manual Integrations  
APPROVED

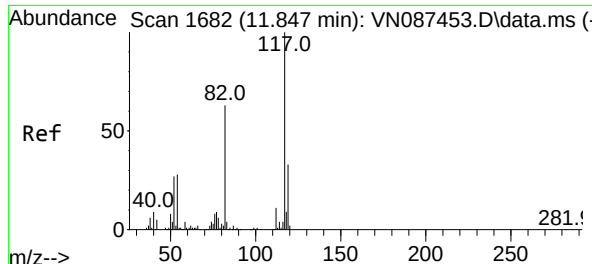
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#56  
Bromoform  
Concen: 16.992 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

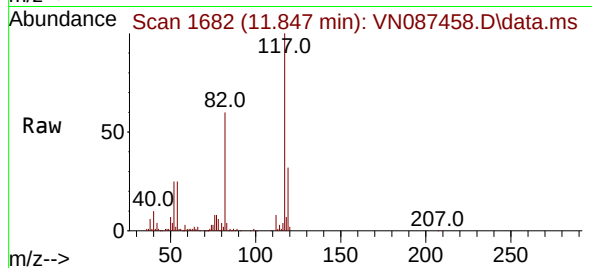
Tgt Ion:173 Resp: 65682  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.8 58.2  
254 7.0 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

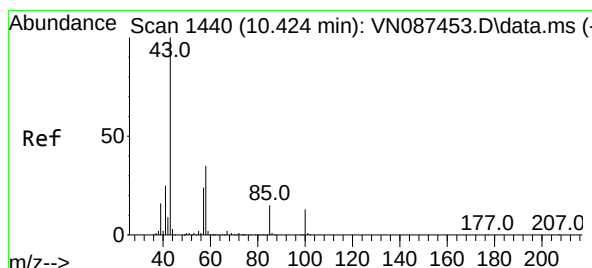
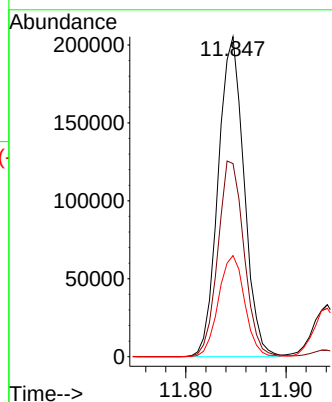
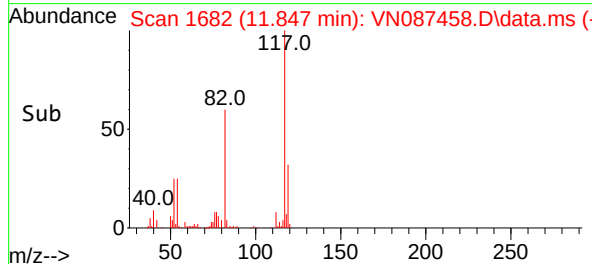
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 117 Resp: 367572  
Ion Ratio Lower Upper  
117 100  
82 61.9 49.2 73.8  
119 32.0 25.7 38.5

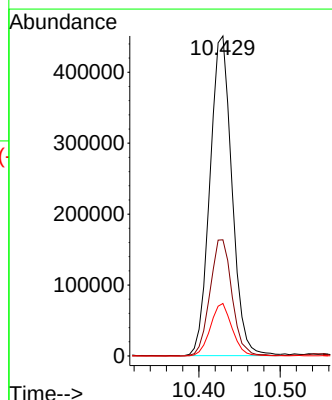
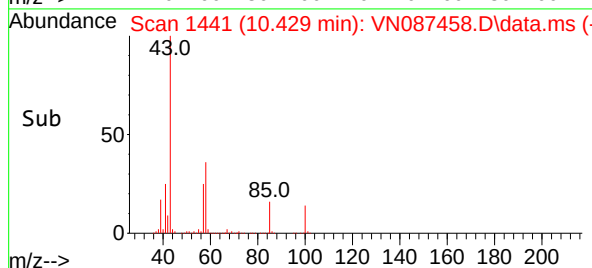
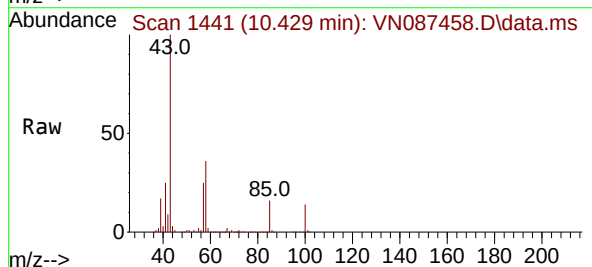
Manual Integrations  
APPROVED

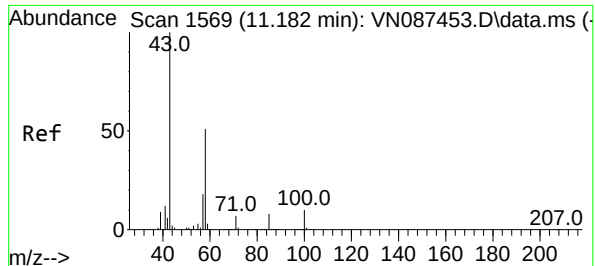
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#58  
4-Methyl-2-Pentanone  
Concen: 89.734 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

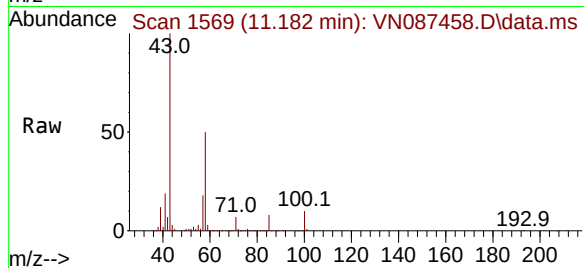
Tgt Ion: 43 Resp: 848509  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 16.2 12.7 19.1





#59  
2-Hexanone  
Concen: 88.726 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

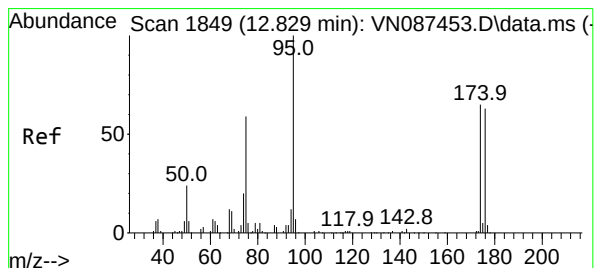
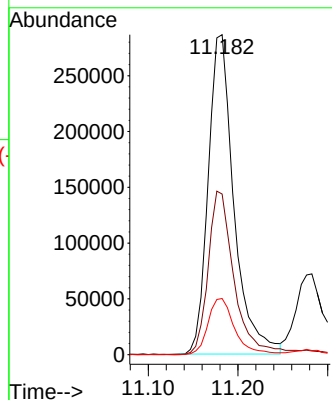
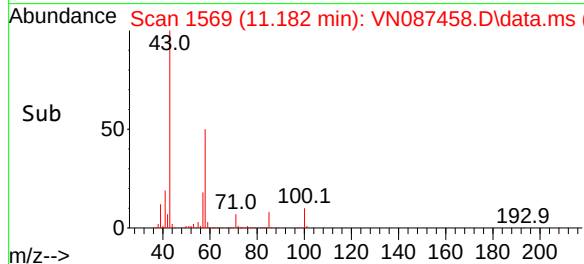
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 43 Resp: 570040  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.3 14.6 21.8

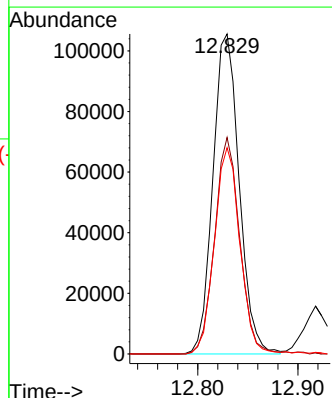
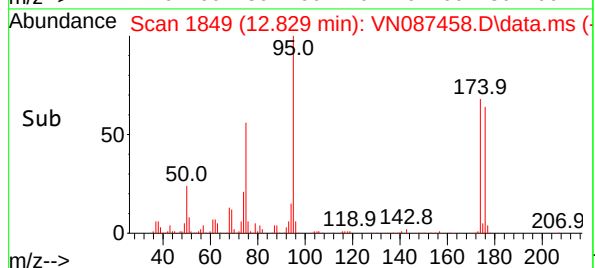
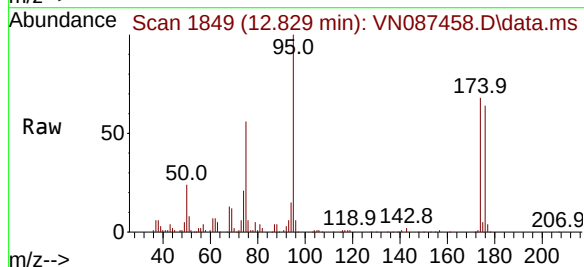
Manual Integrations  
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Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

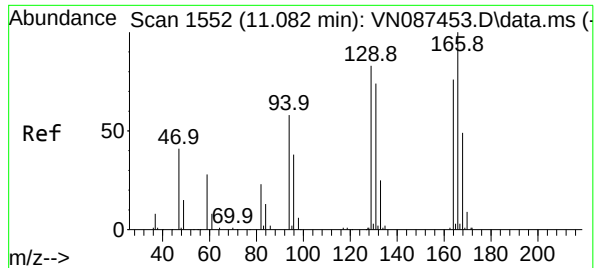


#60  
4-Bromofluorobenzene  
Concen: 30.417 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 95 Resp: 192410  
Ion Ratio Lower Upper  
95 100  
174 64.6 52.3 78.5  
176 62.4 49.8 74.8

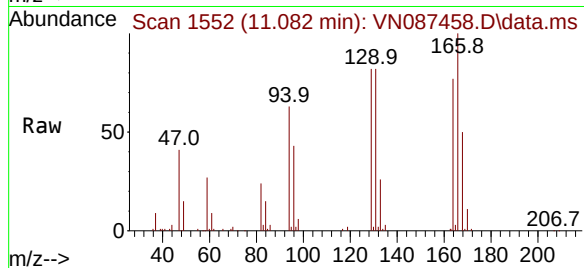






#61  
Tetrachloroethene  
Concen: 18.092 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

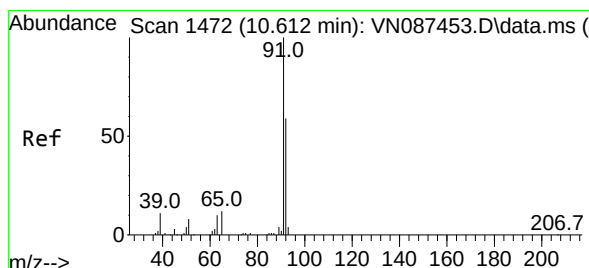
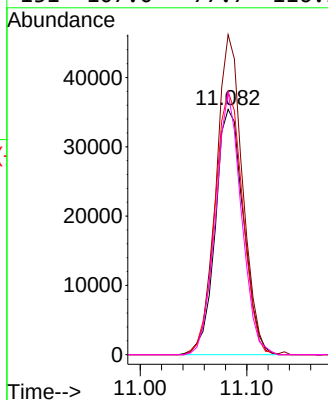
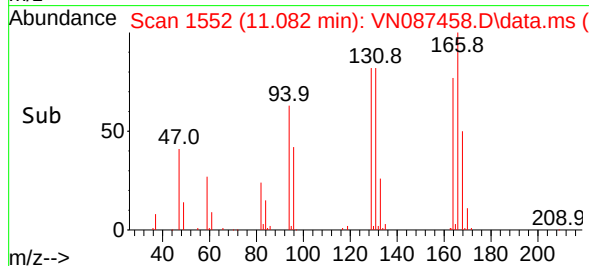
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



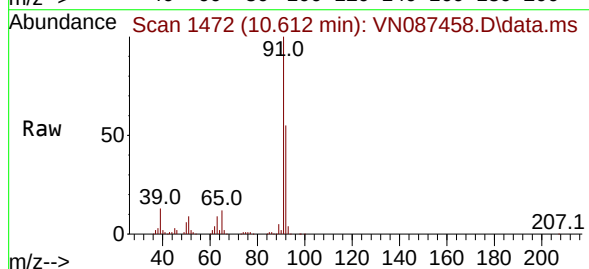
Tgt Ion:164 Resp: 64788  
Ion Ratio Lower Upper  
164 100  
166 130.5 105.4 158.0  
129 107.3 87.7 131.5  
131 107.0 77.7 116.5

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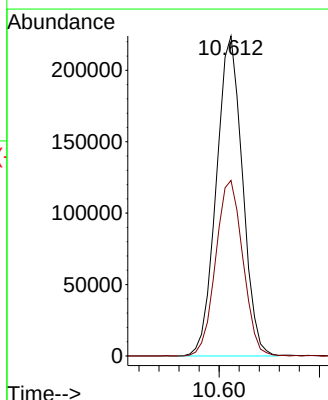
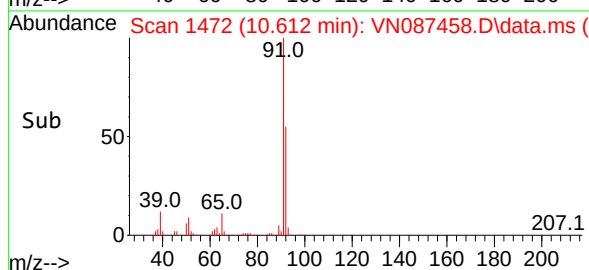
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

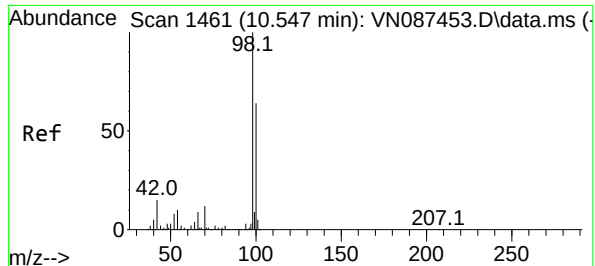


#62  
Toluene  
Concen: 17.879 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43



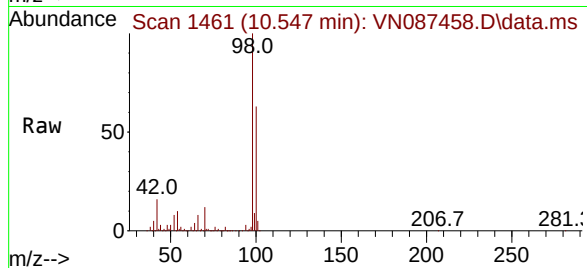
Tgt Ion: 91 Resp: 405628  
Ion Ratio Lower Upper  
91 100  
92 57.0 45.8 68.6





#63  
Toluene-d8  
Concen: 30.347 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

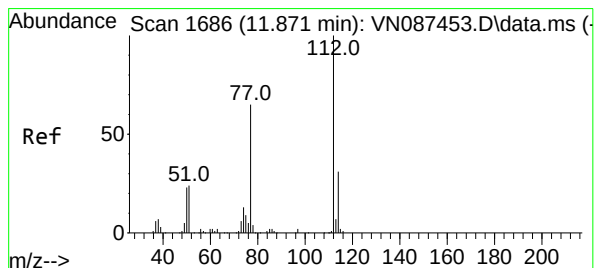
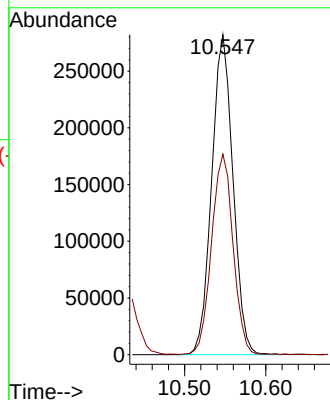
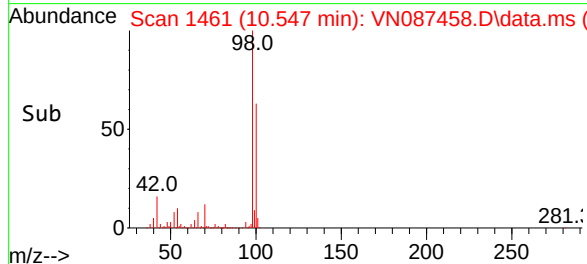
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 98 Resp: 51326  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.5 75.7

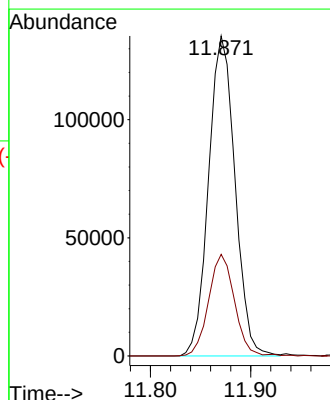
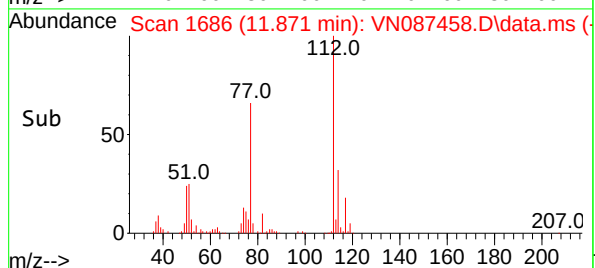
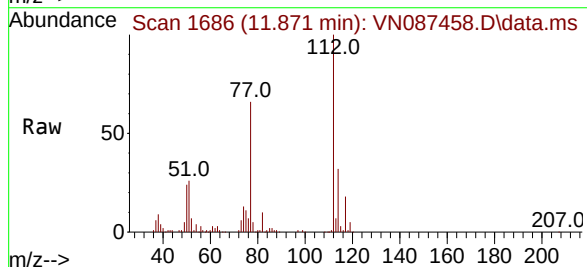
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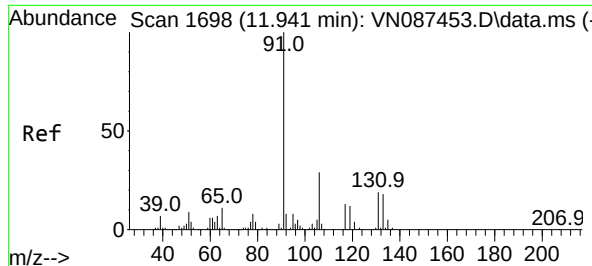
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#64  
Chlorobenzene  
Concen: 17.811 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

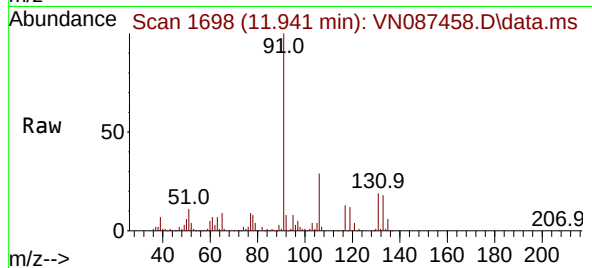
Tgt Ion:112 Resp: 248284  
Ion Ratio Lower Upper  
112 100  
114 31.6 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 17.440 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

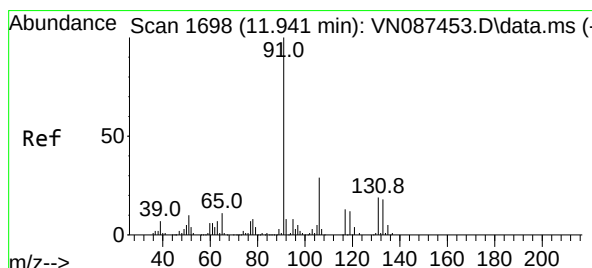
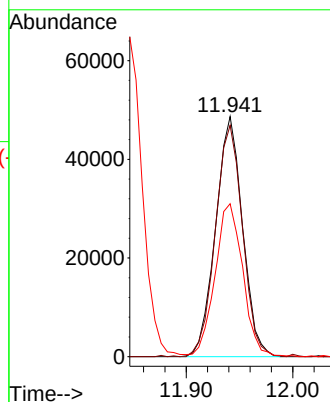
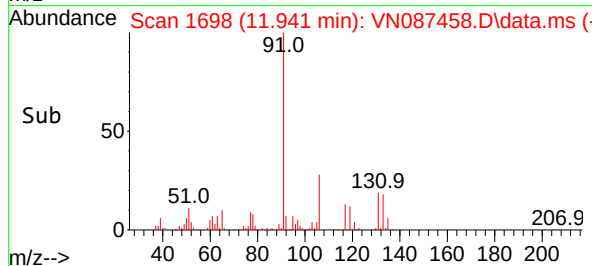
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:131 Resp: 85480  
Ion Ratio Lower Upper  
131 100  
133 97.1 0.0 189.8  
119 65.7 0.0 133.2

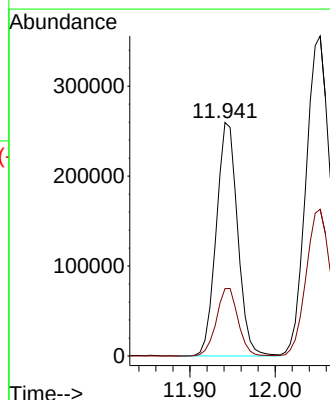
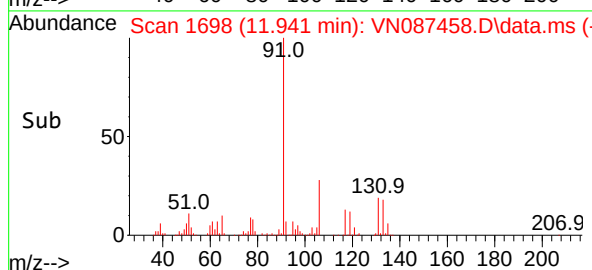
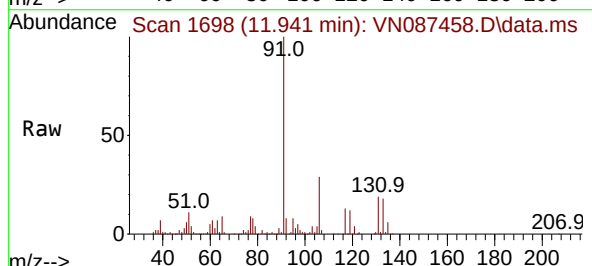
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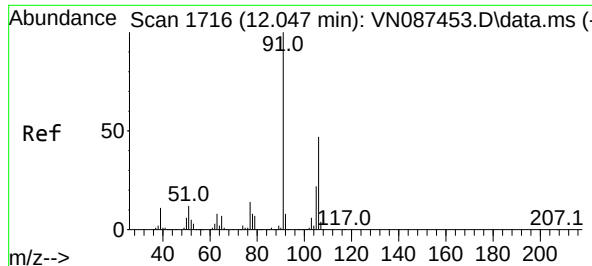
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#66  
Ethyl Benzene  
Concen: 17.892 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

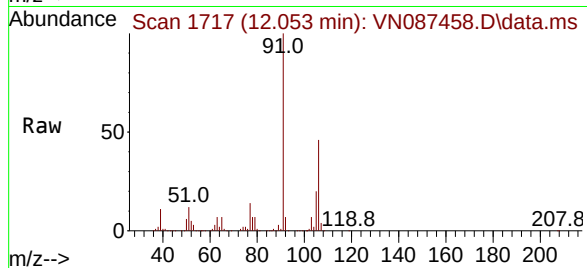
Tgt Ion: 91 Resp: 452435  
Ion Ratio Lower Upper  
91 100  
106 28.8 22.9 34.3





#67  
m/p-Xylenes  
Concen: 34.866 ug/l  
RT: 12.053 min Scan# 1716  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

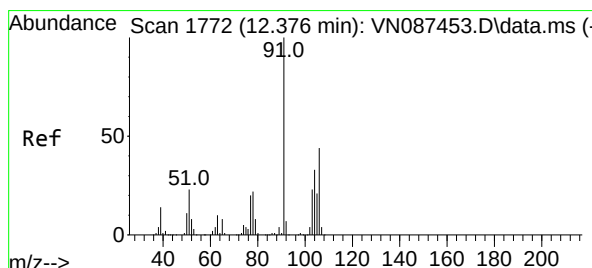
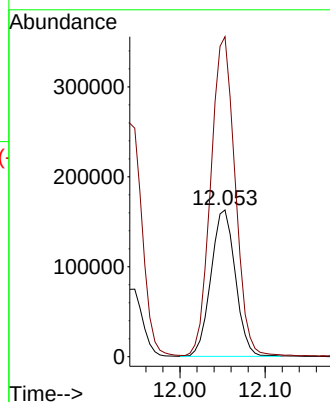
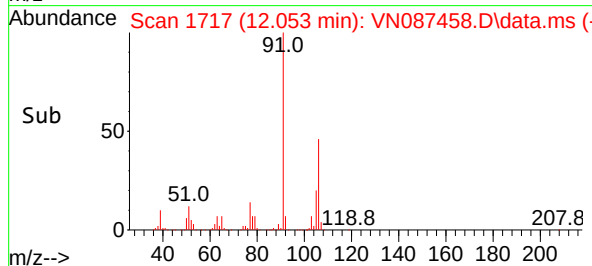
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:106 Resp: 323610  
Ion Ratio Lower Upper  
106 100  
91 217.8 174.2 261.2

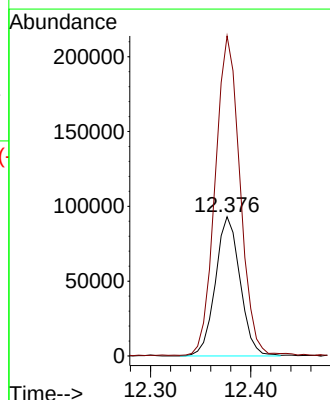
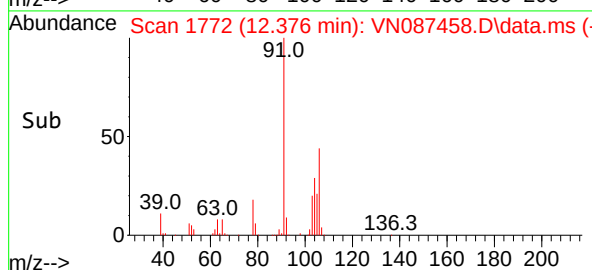
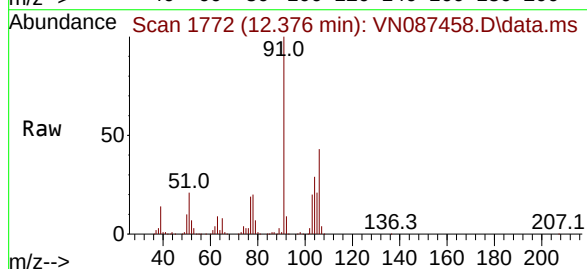
Manual Integrations  
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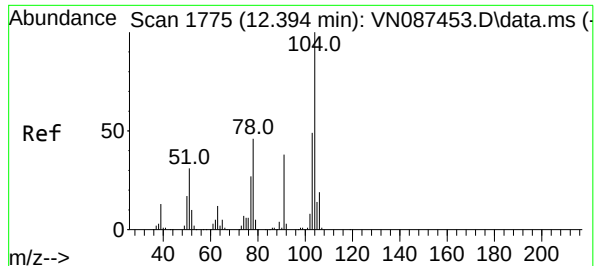
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#68  
o-Xylene  
Concen: 17.419 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:106 Resp: 159060  
Ion Ratio Lower Upper  
106 100  
91 229.5 114.5 343.5





#69

Styrene

Concen: 17.260 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion:104 Resp: 269120

Ion Ratio Lower Upper

104 100

78 56.6 43.8 65.8

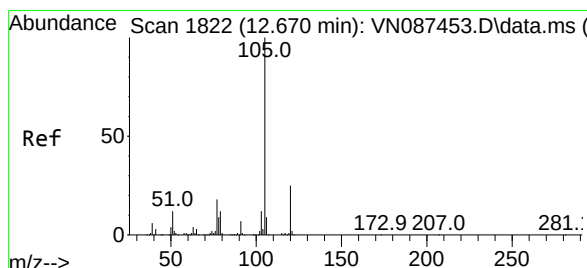
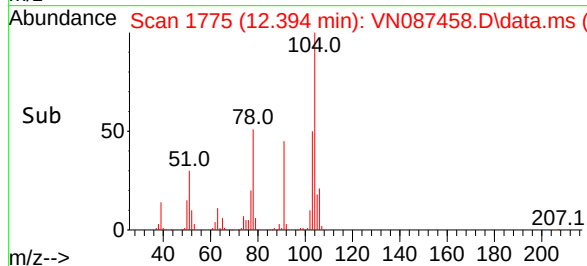
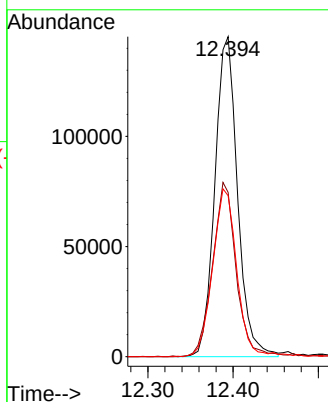
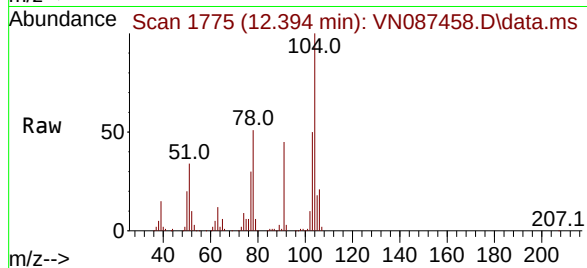
103 55.1 43.1 64.7

Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 17.794 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087458.D

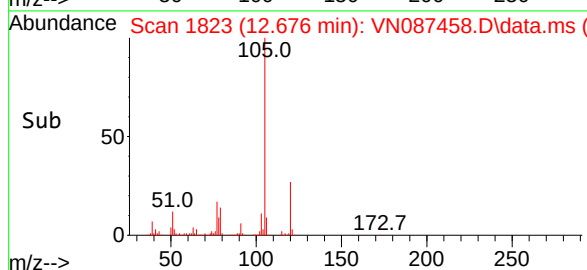
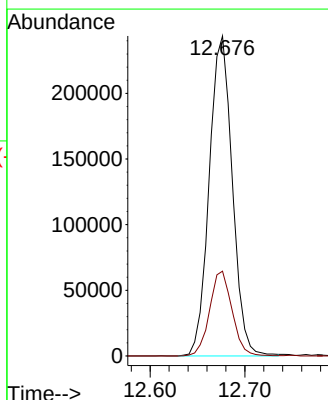
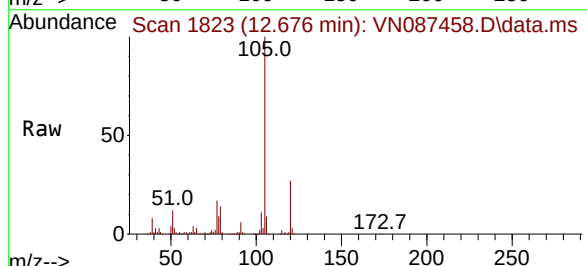
Acq: 05 Aug 2025 15:43

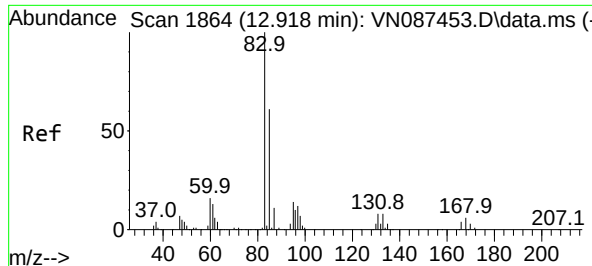
Tgt Ion:105 Resp: 412806

Ion Ratio Lower Upper

105 100

120 25.8 17.5 32.5





#71

1,1,2-Tetrachloroethane

Concen: 17.682 ug/l

RT: 12.918 min Scan# 1864

Delta R.T. 0.000 min

Lab File: VN087458.D

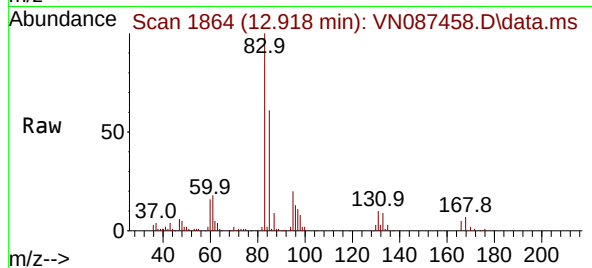
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525



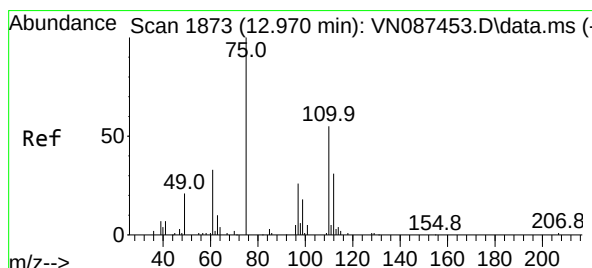
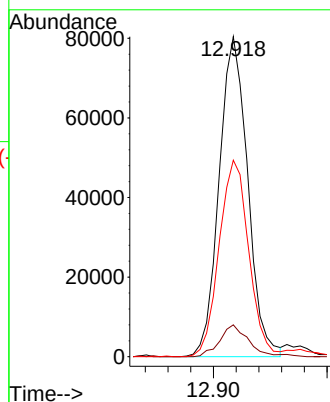
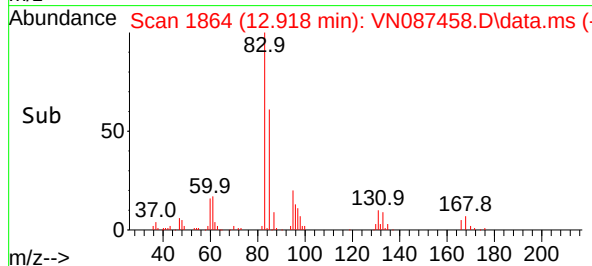
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 140540 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 131      | 9.7   | 4.8   | 14.3   |
| 85       | 63.6  | 31.7  | 95.1   |

## Manual Integrations

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Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#72

1,2,3-Trichloropropane

Concen: 16.271 ug/l m

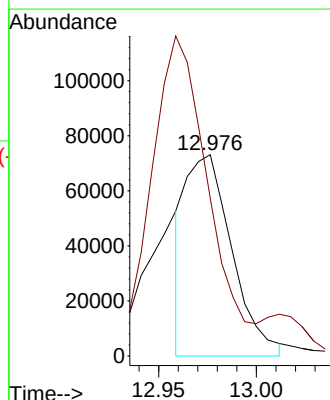
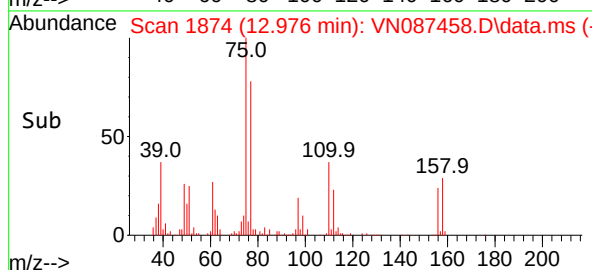
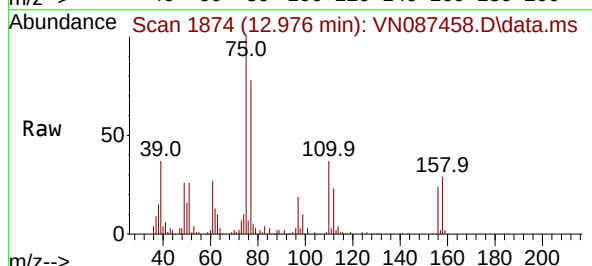
RT: 12.976 min Scan# 1874

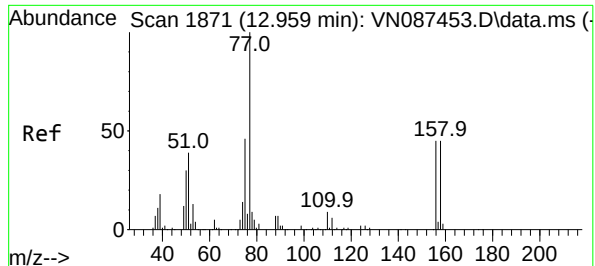
Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

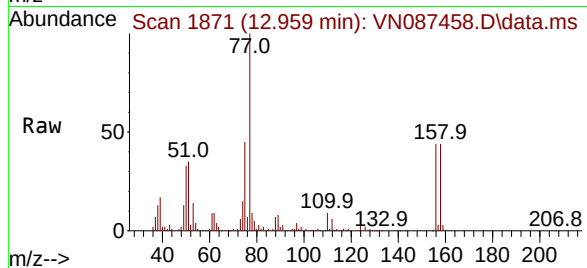
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 120488 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 195.8 | 0.0   | 385.0  |





#73  
Bromobenzene  
Concen: 16.926 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

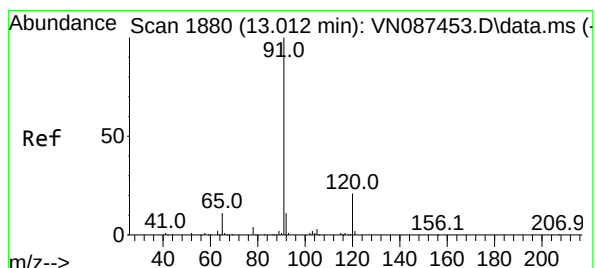
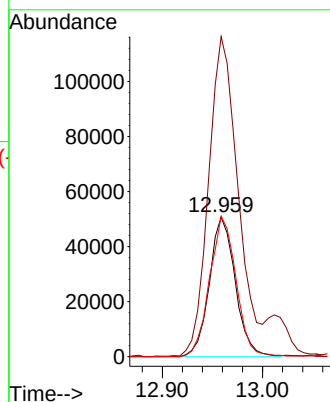
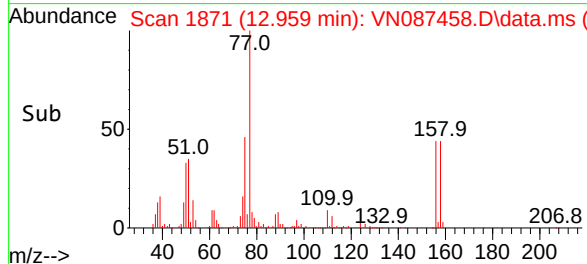
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:156 Resp: 91029  
Ion Ratio Lower Upper  
156 100  
77 259.1 0.0 506.6  
158 102.5 0.0 193.6

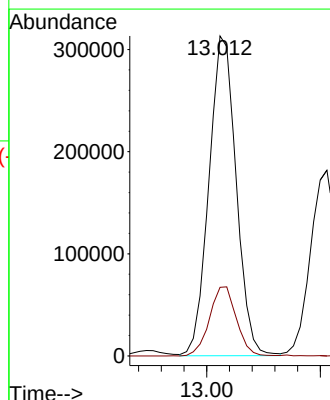
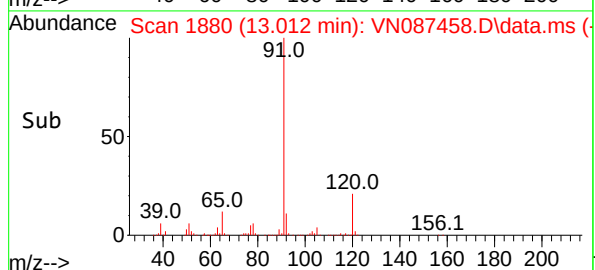
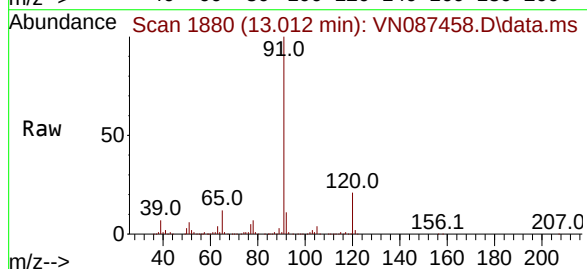
Manual Integrations  
APPROVED

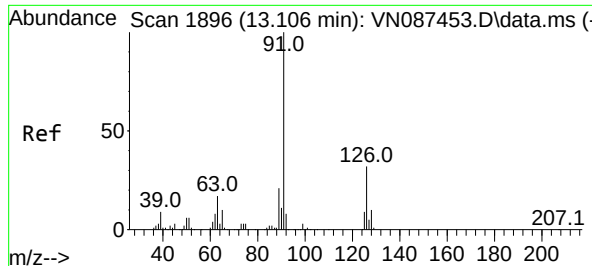
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#74  
n-propylbenzene  
Concen: 17.991 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

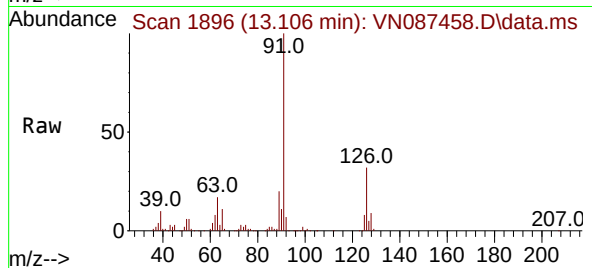
Tgt Ion: 91 Resp: 521263  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 41.8





#75  
2-Chlorotoluene  
Concen: 17.717 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

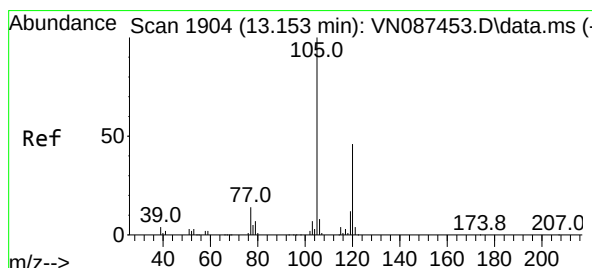
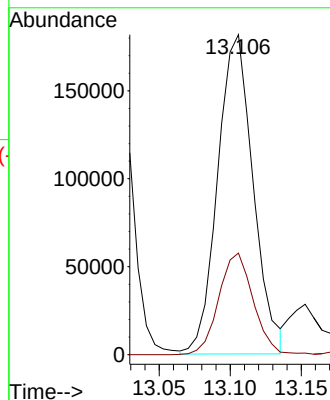
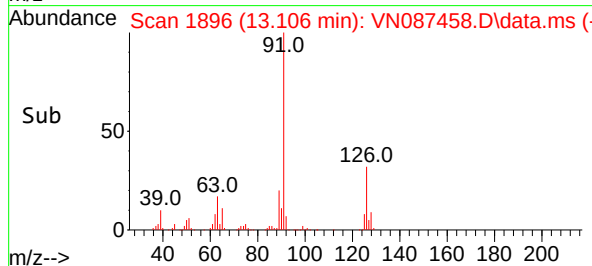
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 91 Resp: 31574  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4

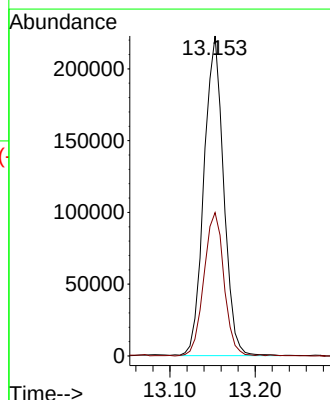
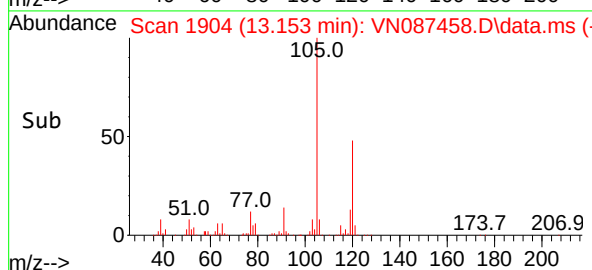
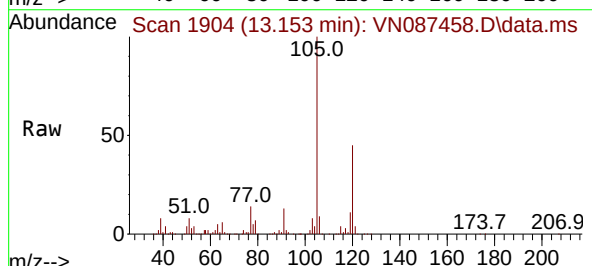
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

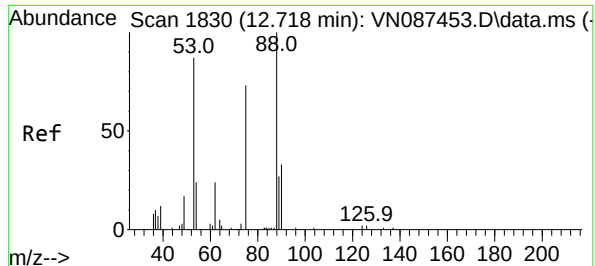


#76  
1,3,5-Trimethylbenzene  
Concen: 17.960 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:105 Resp: 356748  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.2

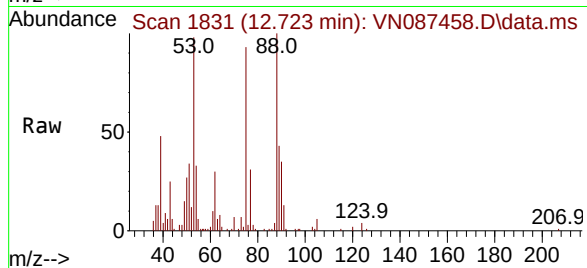






#77  
t-1,4-Dichloro-2-butene  
Concen: 16.855 ug/l  
RT: 12.723 min Scan# 1830  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

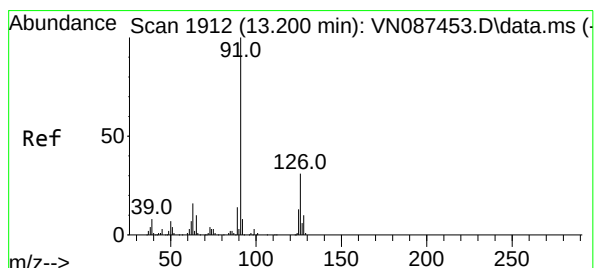
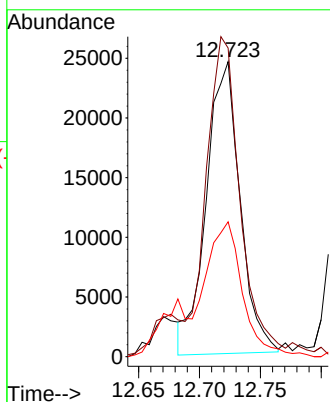
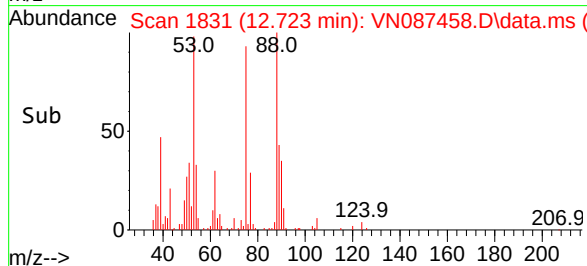
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 75 Resp: 4724  
Ion Ratio Lower Upper  
75 100  
53 102.7 59.0 176.8  
89 44.1 22.1 66.5

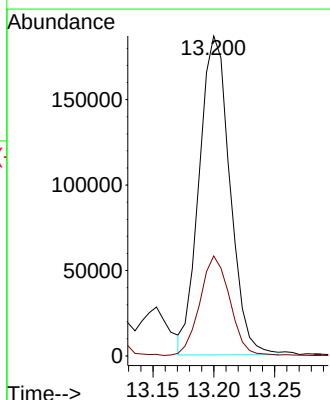
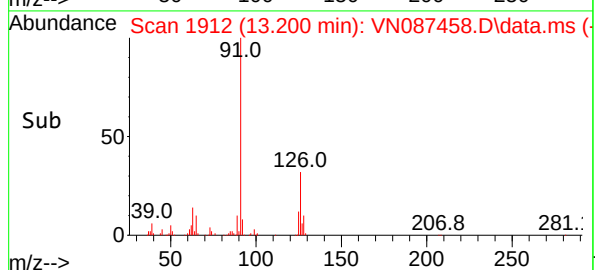
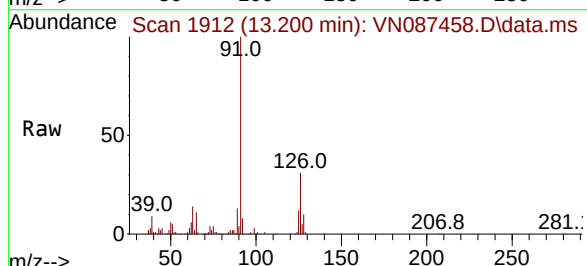
Manual Integrations  
APPROVED

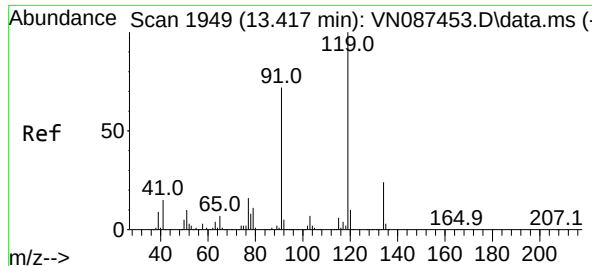
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#78  
4-Chlorotoluene  
Concen: 18.142 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 327647  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 63.2





#79

tert-butylbenzene

Concen: 17.861 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087458.D

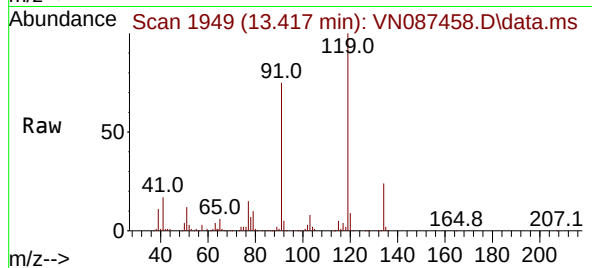
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525



Tgt Ion:119 Resp: 299129

Ion Ratio Lower Upper

119 100

91 73.3 0.0 141.6

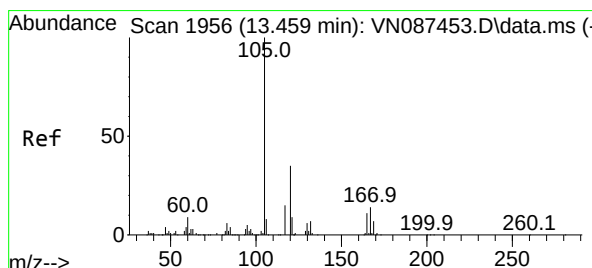
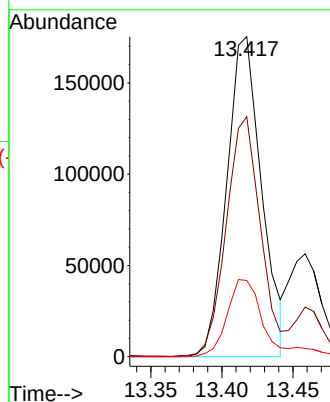
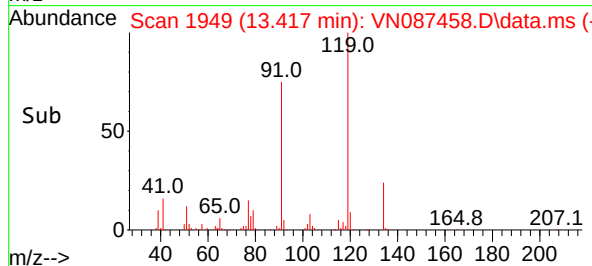
134 23.7 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 18.058 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087458.D

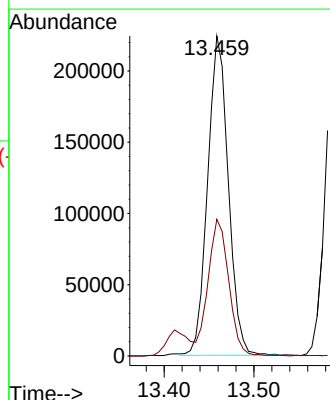
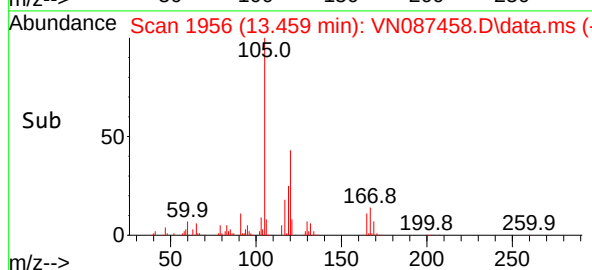
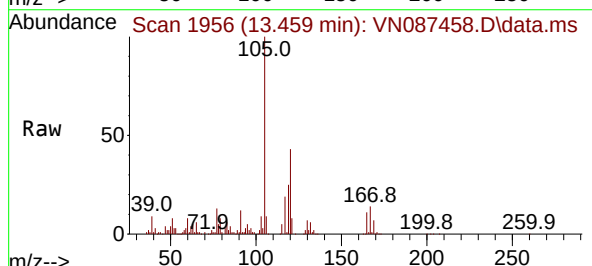
Acq: 05 Aug 2025 15:43

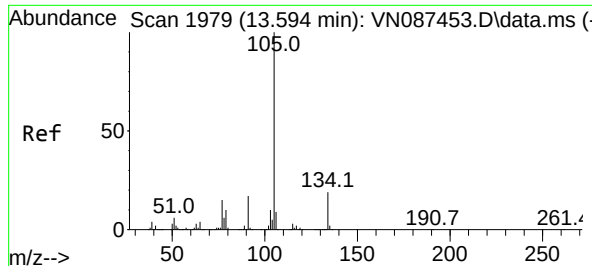
Tgt Ion:105 Resp: 358425

Ion Ratio Lower Upper

105 100

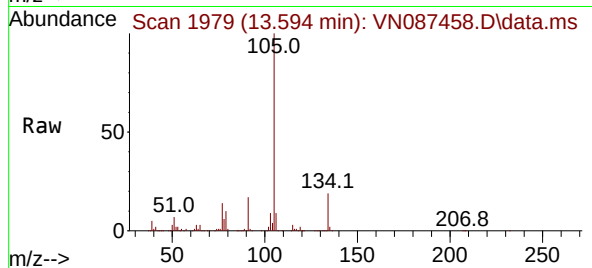
120 42.2 0.0 87.2





#81  
sec-Butylbenzene  
Concen: 18.364 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

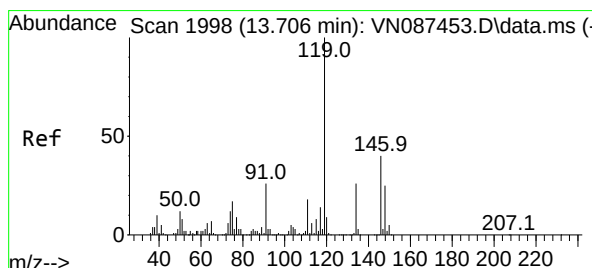
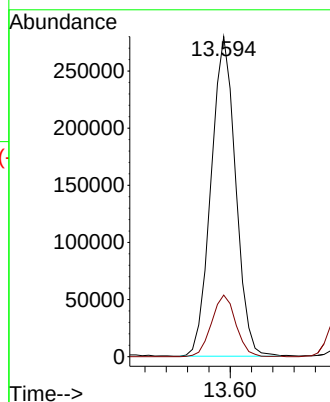
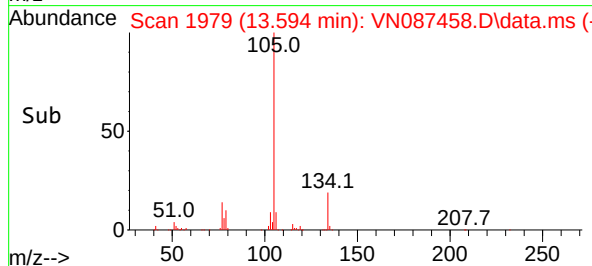
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:105 Resp: 447711  
Ion Ratio Lower Upper  
105 100  
134 19.1 0.0 37.6

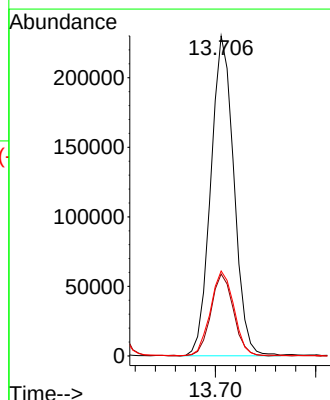
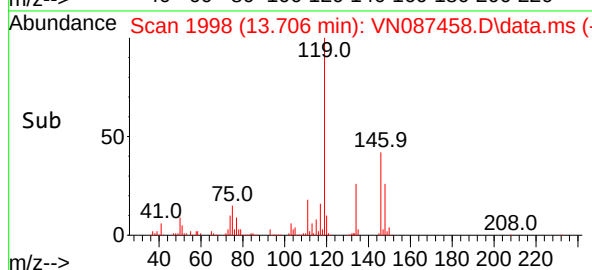
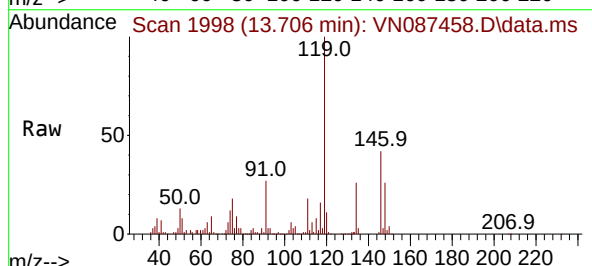
Manual Integrations  
APPROVED

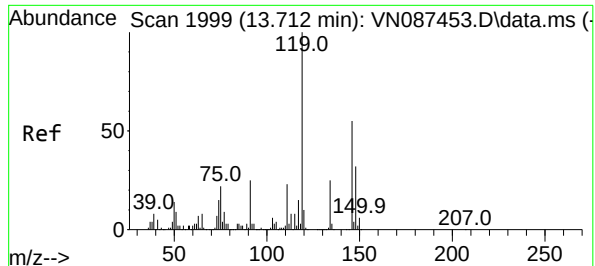
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#82  
p-Isopropyltoluene  
Concen: 18.174 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

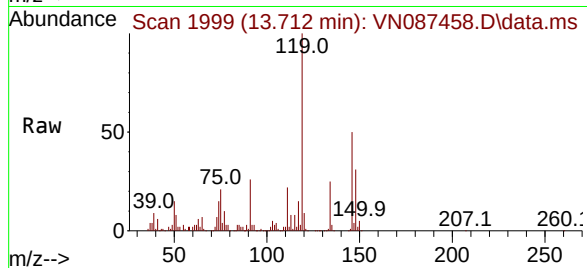
Tgt Ion:119 Resp: 367898  
Ion Ratio Lower Upper  
119 100  
134 25.1 0.0 51.4  
91 26.7 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 18.268 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

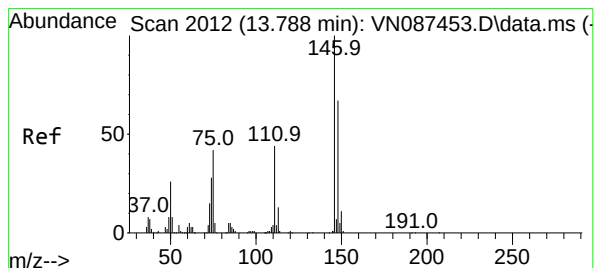
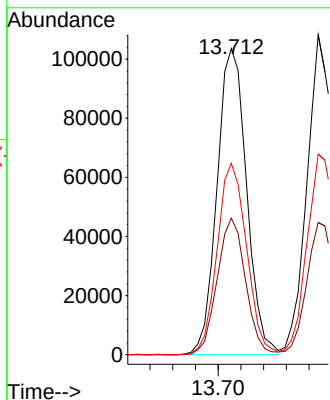
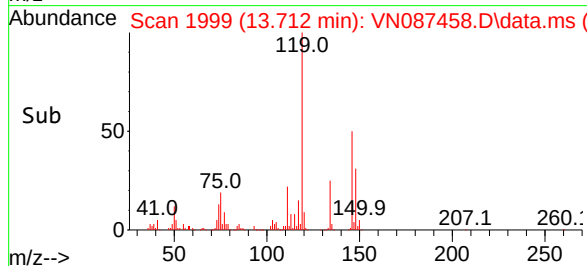
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



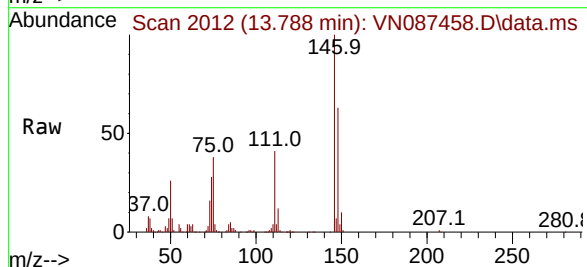
Tgt Ion:146 Resp: 187078  
Ion Ratio Lower Upper  
146 100  
111 42.8 21.9 65.5  
148 62.2 31.3 93.9

Manual Integrations  
APPROVED

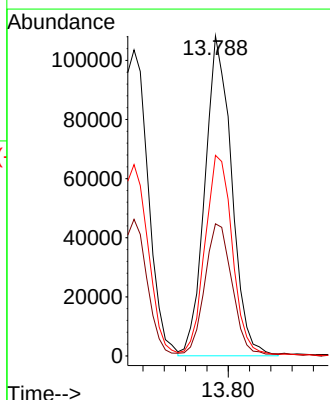
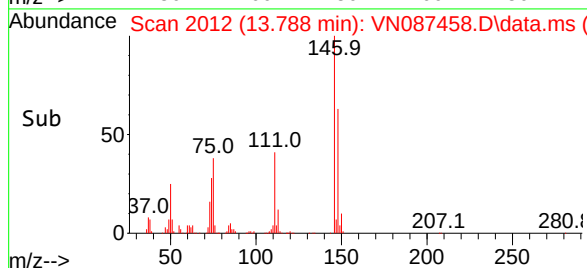
Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025

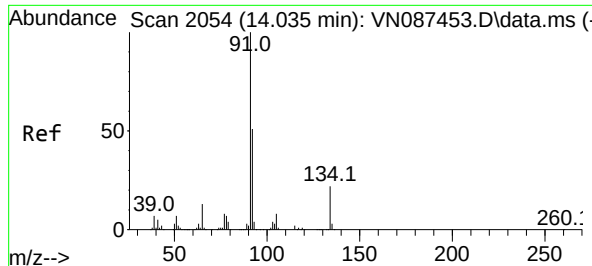


#84  
1,4-Dichlorobenzene  
Concen: 18.174 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43



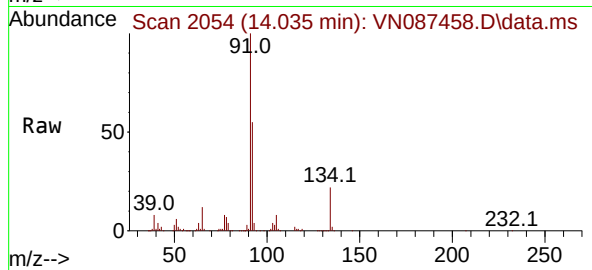
Tgt Ion:146 Resp: 188698  
Ion Ratio Lower Upper  
146 100  
111 42.6 21.1 63.1  
148 63.2 31.4 94.3





#85  
n-Butylbenzene  
Concen: 18.683 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

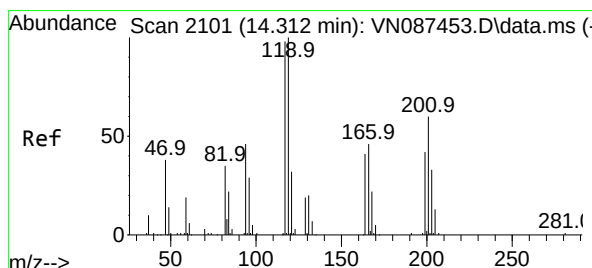
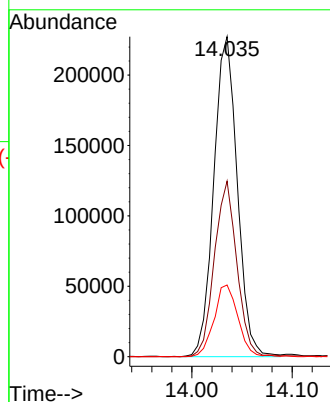
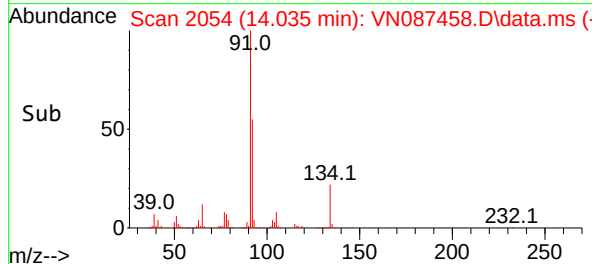
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion: 91 Resp: 37003  
Ion Ratio Lower Upper  
91 100  
92 52.3 0.0 106.6  
134 22.7 0.0 44.4

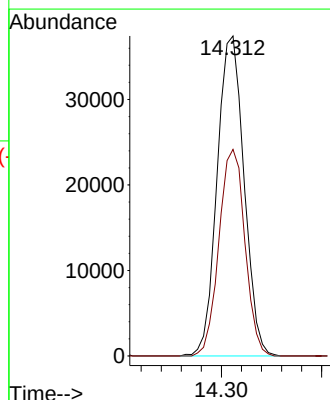
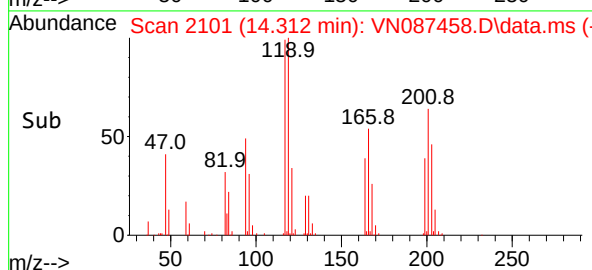
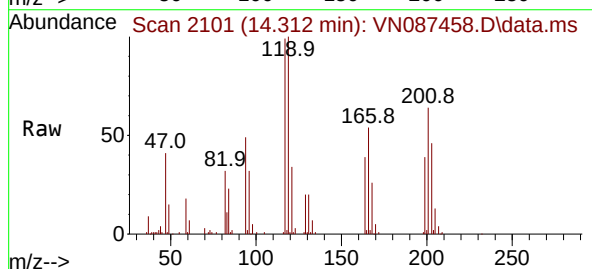
Manual Integrations  
APPROVED

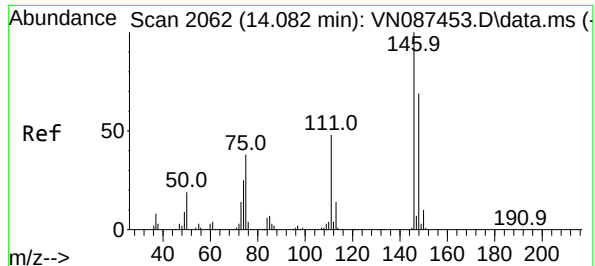
Reviewed By :John Carbone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#86  
Hexachloroethane  
Concen: 17.612 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:117 Resp: 69621  
Ion Ratio Lower Upper  
117 100  
201 62.2 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 18.275 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion:146 Resp: 178640

Ion Ratio Lower Upper

146 100

111 45.4 22.9 68.7

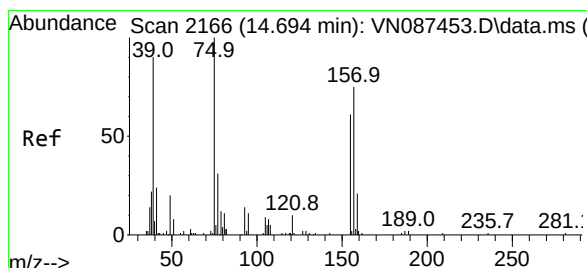
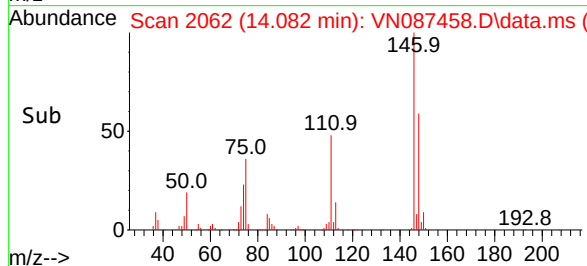
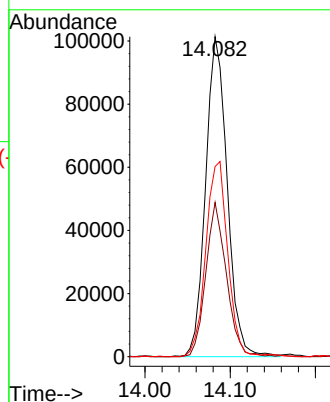
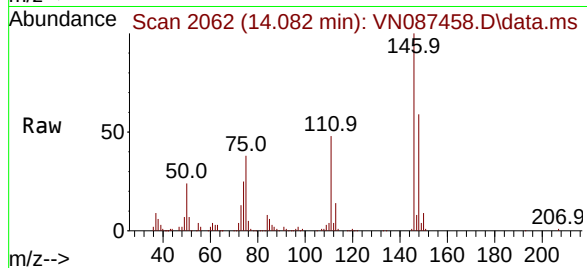
148 61.7 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.876 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

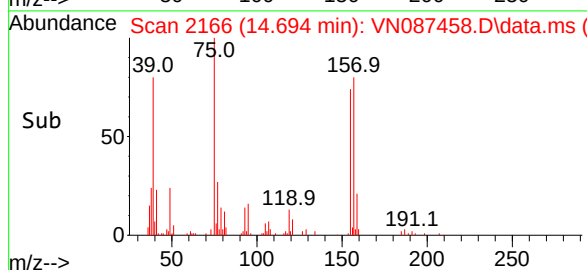
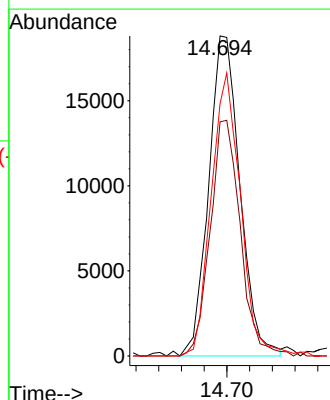
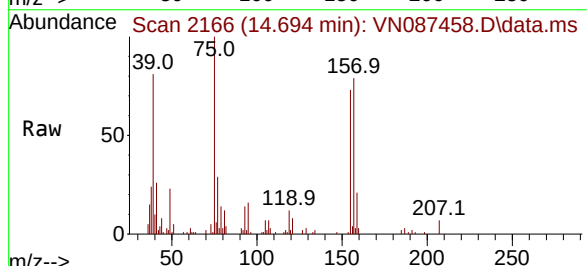
Tgt Ion: 75 Resp: 35995

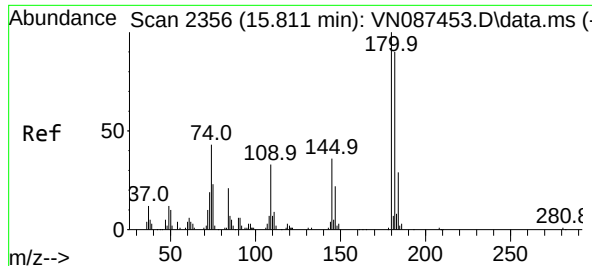
Ion Ratio Lower Upper

75 100

155 70.7 55.7 83.5

157 83.1 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 18.399 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

Tgt Ion:180 Resp: 107490

Ion Ratio Lower Upper

180 100

182 94.7 75.0 112.4

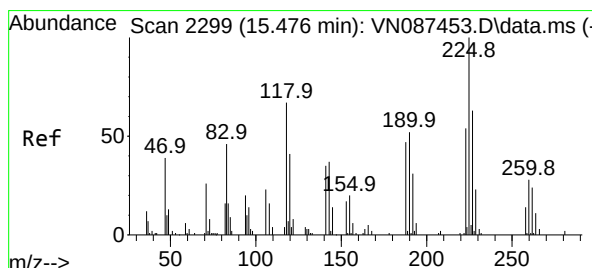
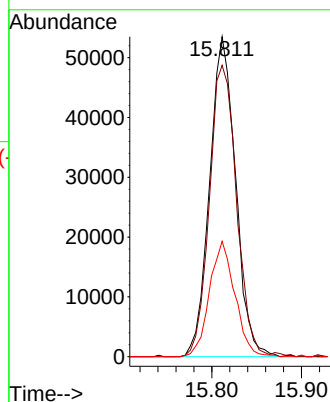
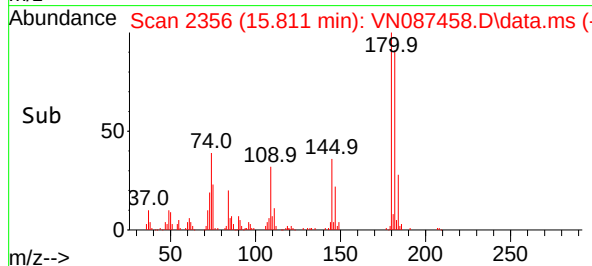
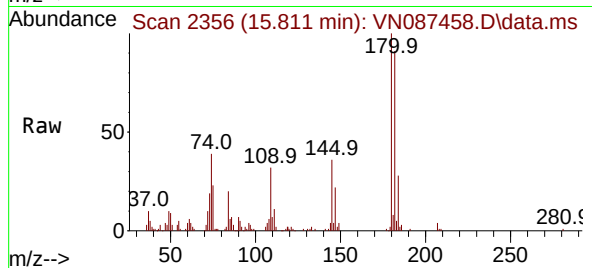
145 35.4 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 18.649 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

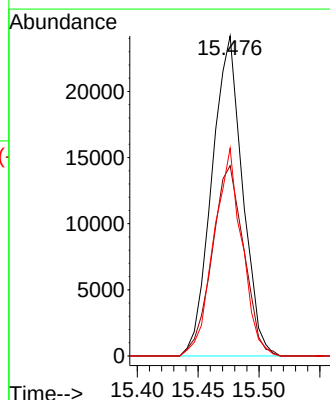
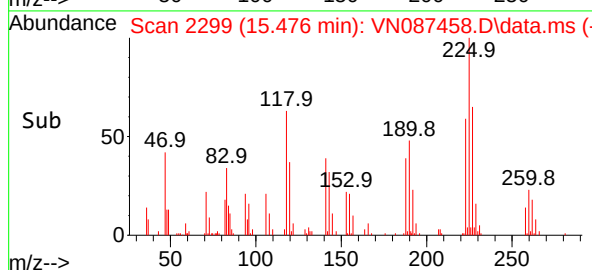
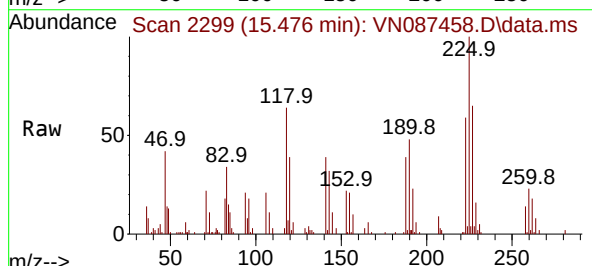
Tgt Ion:225 Resp: 42365

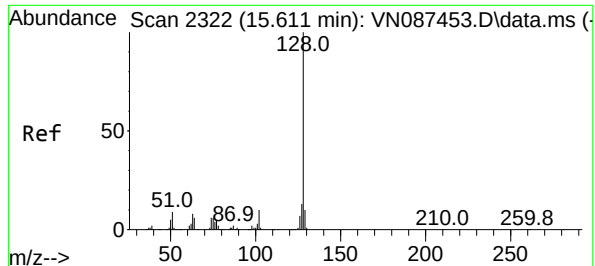
Ion Ratio Lower Upper

225 100

223 61.8 0.0 116.0

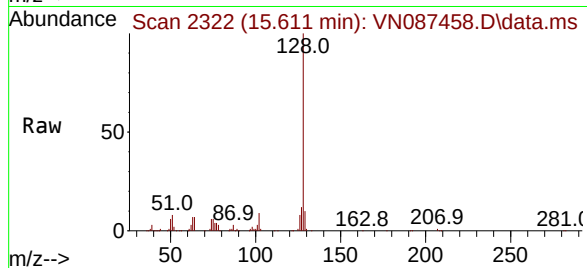
227 59.9 0.0 127.0





#91  
Naphthalene  
Concen: 18.174 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

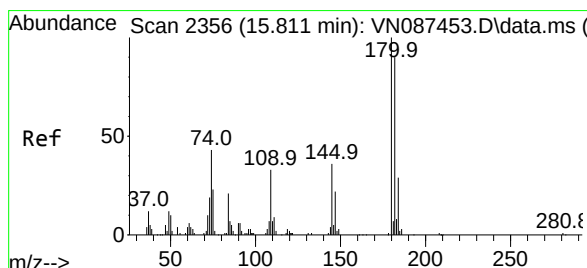
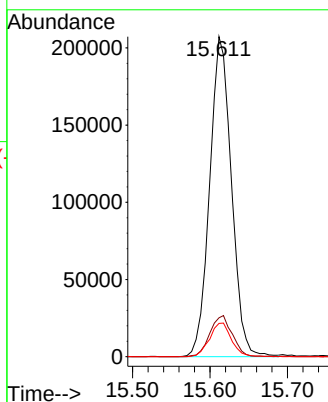
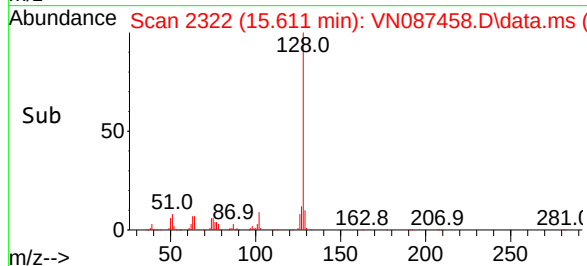
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525



Tgt Ion:128 Resp: 404839  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.2 15.4  
129 10.6 8.9 13.3

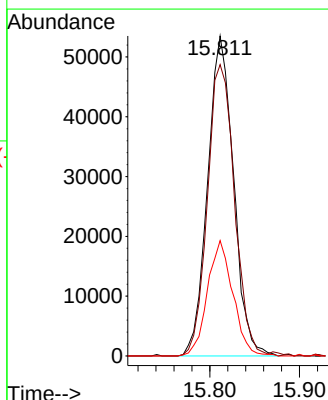
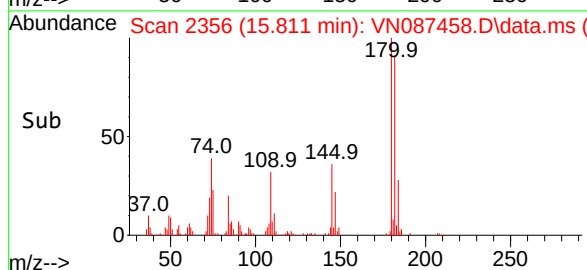
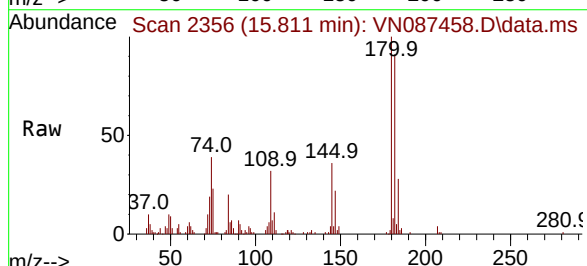
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/06/2025  
Supervised By :Mahesh Dadoda 08/06/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 18.399 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:180 Resp: 107490  
Ion Ratio Lower Upper  
180 100  
182 94.7 0.0 187.4  
145 35.4 0.0 71.6





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN080525

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.959 | 1.833 | 6.4  | 99    | 0.00     |
| 3 M  | Chloromethane               | 2.010 | 1.792 | 10.8 | 93    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.131 | 2.045 | 4.0  | 100   | 0.00     |
| 5 M  | Bromomethane                | 1.154 | 1.126 | 2.4  | 109   | 0.00     |
| 6 M  | Chloroethane                | 1.374 | 1.238 | 9.9  | 96    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.067 | 2.794 | 8.9  | 97    | 0.00     |
| 8 T  | Diethyl Ether               | 1.278 | 1.171 | 8.4  | 99    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.564 | 1.436 | 8.2  | 101   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.643 | 1.491 | 9.3  | 96    | 0.00     |
| 11   | Methyl Iodide               | 1.294 | 1.003 | 22.5 | 104   | 0.00     |
| 12   | Methyl Acetate              | 3.032 | 2.794 | 7.8  | 101   | 0.00     |
| 13 M | Acrolein                    | 0.463 | 0.480 | -3.7 | 116   | 0.00     |
| 14 M | Acrylonitrile               | 1.324 | 1.203 | 9.1  | 99    | 0.00     |
| 15 M | Acetone                     | 0.378 | 0.371 | 1.9  | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 5.097 | 4.594 | 9.9  | 99    | 0.00     |
| 17   | Allyl chloride              | 3.349 | 3.129 | 6.6  | 104   | 0.00     |
| 18 M | Methylene Chloride          | 2.115 | 1.945 | 8.0  | 100   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.954 | 1.749 | 10.5 | 97    | 0.00     |
| 20 T | Diisopropyl ether           | 7.629 | 6.835 | 10.4 | 98    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.944 | 3.576 | 9.3  | 96    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.404 | 2.167 | 9.9  | 97    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.563 | 0.535 | 5.0  | 105   | 0.01     |
| 24 M | Methyl tert-Butyl Ether     | 7.487 | 6.782 | 9.4  | 99    | 0.00     |
| 25 M | Chloroform                  | 4.116 | 3.709 | 9.9  | 98    | 0.00     |
| 26   | Cyclohexane                 | 3.157 | 2.838 | 10.1 | 95    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.767 | 2.817 | -1.8 | 111   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 110   | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.489 | 0.436 | 10.8 | 98    | 0.00     |
| 30 M | 2-Butanone                  | 0.361 | 0.323 | 10.5 | 98    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.631 | 0.588 | 6.8  | 101   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.624 | 0.561 | 10.1 | 100   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.518 | 0.461 | 11.0 | 98    | 0.00     |
| 34 M | Benzene                     | 1.545 | 1.395 | 9.7  | 100   | 0.00     |
| 35   | Methacrylonitrile           | 0.389 | 0.353 | 9.3  | 98    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.624 | 0.559 | 10.4 | 97    | 0.00     |
| 37 M | Trichloroethene             | 0.340 | 0.307 | 9.7  | 98    | 0.00     |
| 38   | Methylcyclohexane           | 0.568 | 0.508 | 10.6 | 98    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.396 | 0.352 | 11.1 | 97    | 0.00     |
| 40   | Dibromomethane              | 0.297 | 0.257 | 13.5 | 94    | 0.00     |
| 41 M | Bromodichloromethane        | 0.617 | 0.543 | 12.0 | 99    | 0.00     |
| 42 M | Vinyl Acetate               | 1.188 | 1.056 | 11.1 | 96    | 0.00     |
| 43   | Ethyl Acetate               | 0.697 | 0.637 | 8.6  | 100   | 0.00     |
| 44   | Isopropyl Acetate           | 1.181 | 1.033 | 12.5 | 96    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5 | 101   | 0.00     |
| 46   | Methyl methacrylate         | 0.558 | 0.473 | 15.2 | 93    | 0.00     |
| 47   | n-amyl Acetate              | 0.652 | 0.542 | 16.9 | 106   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.672 | 0.585 | 12.9 | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 0.676 | 0.602 | 10.9 | 100   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.375 | 0.334 | 10.9 | 98    | 0.00     |
| 51   | Ethyl methacrylate          | 0.661 | 0.571 | 13.6 | 96    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.676 | 0.597 | 11.7 | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 0.434 | 0.378 | 12.9 | 98    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.399 | 0.348 | 12.8 | 96    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.348 | 0.329 | 5.5  | 104   | 0.00     |
| 56 M | Bromoform                   | 0.287 | 0.244 | 15.0 | 97    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.772 | 0.693 | 10.2 | 97    | 0.00     |
| 59 M | 2-Hexanone                  | 0.524 | 0.465 | 11.3 | 99    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.516 | 0.523 | -1.4 | 113   | 0.00     |
| 61 M | Tetrachloroethene           | 0.292 | 0.264 | 9.6  | 101   | 0.00     |
| 62 M | Toluene                     | 1.852 | 1.655 | 10.6 | 97    | 0.00     |
| 63 S | Toluene-d8                  | 1.380 | 1.396 | -1.2 | 113   | 0.00     |
| 64 M | Chlorobenzene               | 1.138 | 1.013 | 11.0 | 98    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.349 | 12.8 | 97    | 0.00     |
| 66 M | Ethyl Benzene               | 2.064 | 1.846 | 10.6 | 98    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.758 | 0.660 | 12.9 | 96    | 0.00     |
| 68 M | o-Xylene                    | 0.745 | 0.649 | 12.9 | 97    | 0.00     |
| 69 M | Styrene                     | 1.273 | 1.098 | 13.7 | 95    | 0.00     |
| 70   | Isopropylbenzene            | 1.893 | 1.685 | 11.0 | 98    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.649 | 0.574 | 11.6 | 95    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.604 | 0.492 | 18.5 | 97    | 0.00     |
| 73   | Bromobenzene                | 0.439 | 0.371 | 15.5 | 95    | 0.00     |
| 74   | n-propylbenzene             | 2.365 | 2.127 | 10.1 | 99    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.455 | 1.288 | 11.5 | 97    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.621 | 1.456 | 10.2 | 98    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.229 | 0.193 | 15.7 | 100   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.474 | 1.337 | 9.3  | 102   | 0.00     |
| 79   | tert-butylbenzene           | 1.367 | 1.221 | 10.7 | 98    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.620 | 1.463 | 9.7  | 100   | 0.00     |
| 81   | sec-Butylbenzene            | 1.990 | 1.827 | 8.2  | 100   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.652 | 1.501 | 9.1  | 99    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.836 | 0.763 | 8.7  | 100   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.847 | 0.770 | 9.1  | 99    | 0.00     |
| 85   | n-Butylbenzene              | 1.616 | 1.510 | 6.6  | 102   | 0.00     |
| 86 T | Hexachloroethane            | 0.323 | 0.284 | 12.1 | 98    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.798 | 0.729 | 8.6  | 100   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.164 | 0.147 | 10.4 | 97    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.477 | 0.439 | 8.0  | 103   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.185 | 0.173 | 6.5  | 103   | 0.00     |
| 91 M | Naphthalene                 | 1.818 | 1.652 | 9.1  | 101   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.477 | 0.439 | 8.0  | 103   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 30.000  | 30.000  | 0.0  | 112   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.712  | 6.4  | 99    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.839  | 10.8 | 93    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 19.190  | 4.0  | 100   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 19.525  | 2.4  | 109   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.022  | 9.9  | 96    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.219  | 8.9  | 97    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 18.325  | 8.4  | 99    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 18.360  | 8.2  | 101   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.145  | 9.3  | 96    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.501  | 22.5 | 104   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.431  | 7.8  | 101   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 103.668 | -3.7 | 116   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 90.843  | 9.2  | 99    | 0.00     |
| 15 M | Acetone                     | 100.000 | 98.134  | 1.9  | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.028  | 9.9  | 99    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.683  | 6.6  | 104   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.387  | 8.1  | 100   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.906  | 10.5 | 97    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 17.917  | 10.4 | 98    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.134  | 9.3  | 96    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.023  | 9.9  | 97    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 95.030  | 5.0  | 105   | 0.01     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.116  | 9.4  | 99    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.021  | 9.9  | 98    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.977  | 10.1 | 95    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.545  | -1.8 | 111   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0  | 110   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.825  | 10.9 | 98    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 89.621  | 10.4 | 98    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.630  | 6.9  | 101   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 17.988  | 10.1 | 100   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 17.777  | 11.1 | 98    | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.060  | 9.7  | 100   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.163  | 9.2  | 98    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 17.918  | 10.4 | 97    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.041  | 9.8  | 98    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.882  | 10.6 | 98    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 17.793  | 11.0 | 97    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 17.288  | 13.6 | 94    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.583  | 12.1 | 99    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 88.913  | 11.1 | 96    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.279  | 8.6  | 100   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.492  | 12.5 | 96    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 377.572 | 5.6  | 101   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 16.972  | 15.1 | 93    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 16.611  | 16.9 | 106   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.415  | 12.9 | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN080525

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 20.000  | 17.812 | 10.9 | 100   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 17.791 | 11.0 | 98    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.260 | 13.7 | 96    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 17.664 | 11.7 | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 17.453 | 12.7 | 98    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 17.486 | 12.6 | 96    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 94.458 | 5.5  | 104   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 16.992 | 15.0 | 97    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 112   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 89.734 | 10.3 | 97    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 88.726 | 11.3 | 99    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.417 | -1.4 | 113   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 18.092 | 9.5  | 101   | 0.00     |
| 62 M | Toluene                     | 20.000  | 17.879 | 10.6 | 97    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.347 | -1.2 | 113   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.811 | 10.9 | 98    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.440 | 12.8 | 97    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.892 | 10.5 | 98    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 34.866 | 12.8 | 96    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 17.419 | 12.9 | 97    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.260 | 13.7 | 95    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 17.794 | 11.0 | 98    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 17.682 | 11.6 | 95    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 16.271 | 18.6 | 97    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 16.926 | 15.4 | 95    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 17.991 | 10.0 | 99    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.717 | 11.4 | 97    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.960 | 10.2 | 98    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 16.855 | 15.7 | 100   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.142 | 9.3  | 102   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 17.861 | 10.7 | 98    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.058 | 9.7  | 100   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.364 | 8.2  | 100   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.174 | 9.1  | 99    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 18.268 | 8.7  | 100   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.174 | 9.1  | 99    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.683 | 6.6  | 102   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.612 | 11.9 | 98    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.275 | 8.6  | 100   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 17.876 | 10.6 | 97    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.399 | 8.0  | 103   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.649 | 6.8  | 103   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.174 | 9.1  | 101   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 18.399 | 8.0  | 103   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

## VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>TETR06</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3017</u>                        |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/04/2025</u> <u>10:54</u>      |
| Lab File ID:        | <u>VN087714.D</u> | Init. Calib. Date(s):  | <u>08/05/2025</u> <u>08/05/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>13:37</u> <u>15:01</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)                    |

| COMPOUND                       | RRF   | RRF020 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 1.959 | 1.866  |            | -4.75  |       |
| Chloromethane                  | 2.010 | 1.986  |            | -1.19  |       |
| Vinyl Chloride                 | 2.131 | 2.243  | 0.1        | 5.26   |       |
| Bromomethane                   | 1.154 | 1.401  | 0.1        | 21.4   |       |
| Chloroethane                   | 1.374 | 1.554  |            | 13.1   |       |
| Trichlorofluoromethane         | 3.067 | 3.309  |            | 7.89   |       |
| 1,1,2-Trichlorotrifluoroethane | 1.564 | 1.932  |            | 23.53  |       |
| 1,1-Dichloroethene             | 1.643 | 1.813  | 0.1        | 10.35  |       |
| Acetone                        | 0.378 | 0.415  |            | 9.79   |       |
| Carbon Disulfide               | 5.097 | 4.692  |            | -7.95  |       |
| Methyl tert-Butyl Ether        | 7.487 | 6.633  |            | -11.41 |       |
| Methyl Acetate                 | 3.032 | 3.414  |            | 12.6   |       |
| Methylene Chloride             | 2.115 | 2.111  |            | -0.19  |       |
| trans-1,2-Dichloroethene       | 1.954 | 1.795  |            | -8.14  |       |
| 1,1-Dichloroethane             | 3.944 | 3.822  | 0.2        | -3.09  |       |
| Cyclohexane                    | 0.567 | 0.533  |            | -6     |       |
| 2-Butanone                     | 0.361 | 0.349  |            | -3.32  |       |
| Carbon Tetrachloride           | 0.518 | 0.535  | 0.1        | 3.28   |       |
| cis-1,2-Dichloroethene         | 2.404 | 2.299  |            | -4.37  |       |
| Chloroform                     | 4.116 | 4.110  | 0.2        | -0.15  |       |
| 1,1,1-Trichloroethane          | 0.624 | 0.649  | 0.1        | 4.01   |       |
| Methylcyclohexane              | 0.568 | 0.516  |            | -9.15  |       |
| Benzene                        | 1.545 | 1.589  | 0.5        | 2.85   |       |
| 1,2-Dichloroethane             | 0.624 | 0.634  | 0.1        | 1.6    |       |
| Trichloroethene                | 0.340 | 0.353  | 0.3        | 3.82   |       |
| 1,2-Dichloropropane            | 0.396 | 0.424  |            | 7.07   |       |
| Bromodichloromethane           | 0.617 | 0.630  | 0.2        | 2.11   |       |
| 4-Methyl-2-Pentanone           | 0.772 | 0.767  |            | -0.65  |       |
| Toluene                        | 1.852 | 1.893  | 0.4        | 2.21   |       |
| t-1,3-Dichloropropene          | 0.672 | 0.655  | 0.1        | -2.53  |       |
| cis-1,3-Dichloropropene        | 0.676 | 0.679  | 0.2        | 0.44   |       |
| 1,1,2-Trichloroethane          | 0.375 | 0.414  | 0.1        | 10.4   |       |
| 2-Hexanone                     | 0.524 | 0.501  |            | -4.39  |       |
| Dibromochloromethane           | 0.434 | 0.444  | 0.1        | 2.3    |       |
| 1,2-Dibromoethane              | 0.399 | 0.402  |            | 0.75   |       |
| Tetrachloroethene              | 0.292 | 0.310  | 0.2        | 6.16   |       |
| Chlorobenzene                  | 1.138 | 1.183  | 0.5        | 3.95   |       |
| Ethyl Benzene                  | 2.064 | 2.036  | 0.1        | -1.36  |       |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

## VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>TETR06</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3017</u>                        |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/04/2025</u> <u>10:54</u>      |
| Lab File ID:        | <u>VN087714.D</u> | Init. Calib. Date(s):  | <u>08/05/2025</u> <u>08/05/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>13:37</u> <u>15:01</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)                    |

| COMPOUND                    | RRF   | RRF020 | MIN<br>RRF | %D    | MAX%D |
|-----------------------------|-------|--------|------------|-------|-------|
| m/p-Xylenes                 | 0.758 | 0.763  | 0.3        | 0.66  |       |
| o-Xylene                    | 0.745 | 0.703  | 0.3        | -5.64 |       |
| Styrene                     | 1.273 | 1.239  | 0.3        | -2.67 |       |
| Bromoform                   | 0.287 | 0.279  | 0.1        | -2.79 |       |
| Isopropylbenzene            | 1.893 | 1.852  |            | -2.17 |       |
| 1,1,2,2-Tetrachloroethane   | 0.649 | 0.708  | 0.3        | 9.09  |       |
| 1,3,5-Trimethylbenzene      | 1.621 | 1.616  |            | -0.31 |       |
| 1,3-Dichlorobenzene         | 0.836 | 0.893  | 0.2        | 6.82  |       |
| 1,4-Dichlorobenzene         | 0.847 | 0.928  | 0.2        | 9.56  |       |
| 1,2-Dichlorobenzene         | 0.798 | 0.850  | 0.2        | 6.52  |       |
| 1,2-Dibromo-3-Chloropropane | 0.164 | 0.148  |            | -9.76 |       |
| 1,2,4-Trichlorobenzene      | 0.477 | 0.473  | 0.2        | -0.84 |       |
| 1,2,3-Trichlorobenzene      | 0.477 | 0.473  |            | -0.84 |       |
| 1,2-Dichloroethane-d4       | 2.767 | 2.576  | 0.01       | -6.9  |       |
| Toluene-d8                  | 1.380 | 1.399  | 0.01       | 1.38  |       |
| 4-Bromofluorobenzene        | 0.516 | 0.504  | 0.2        | -2.33 |       |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 48350      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 251837     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 230082     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 124569     | 27.933   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 93.100%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 115967     | 29.288   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 97.633%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 321960     | 30.412   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.367% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 60133      | 19.049   | ug/l   | 94       |
| 3) Chloromethane             | 2.383          | 50   | 64019      | 19.766   | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.536          | 62   | 72293      | 21.045   | ug/l   | 95       |
| 5) Bromomethane              | 2.983          | 94   | 45165      | 24.291   | ug/l   | 84       |
| 6) Chloroethane              | 3.136          | 64   | 50084      | 22.610   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 106668     | 21.576   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 42068      | 20.425   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 62284      | 24.706   | ug/l   | 89       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 58425      | 22.063   | ug/l   | 89       |
| 11) Methyl Iodide            | 4.577          | 142  | 32210      | 15.448   | ug/l   | 90       |
| 12) Methyl Acetate           | 5.024          | 43   | 110045     | 22.519   | ug/l   | 93       |
| 13) Acrolein                 | 4.171          | 56   | 70956      | 95.068   | ug/l   | 95       |
| 14) Acrylonitrile            | 5.706          | 53   | 199993     | 93.724   | ug/l   | 100      |
| 15) Acetone                  | 4.424          | 58   | 66864m     | 109.668  | ug/l   |          |
| 16) Carbon Disulfide         | 4.700          | 76   | 151225     | 18.410   | ug/l   | 98       |
| 17) Allyl chloride           | 5.000          | 41   | 98811m     | 18.307   | ug/l   |          |
| 18) Methylene Chloride       | 5.259          | 84   | 68053      | 19.962   | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 57873      | 18.378   | ug/l   | 95       |
| 20) Diisopropyl ether        | 6.653          | 45   | 228386     | 18.574   | ug/l # | 97       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 123208     | 19.385   | ug/l # | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 74107      | 19.126   | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 69925      | 77.117   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 213810     | 17.719   | ug/l   | 98       |
| 25) Chloroform               | 7.947          | 83   | 132472     | 19.968   | ug/l   | 94       |
| 26) Cyclohexane              | 8.236          | 56   | 89474      | 17.583   | ug/l # | 93       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 82459      | 20.075   | ug/l   | 99       |
| 30) 2-Butanone               | 7.465          | 43   | 293154     | 96.824   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 111592     | 21.065   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 109005     | 20.808   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 89740      | 20.620   | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 266751     | 20.573   | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.765          | 41   | 61968      | 18.966   | ug/l   | 91       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 106474     | 20.317   | ug/l   | 98       |
| 37) Trichloroethene          | 9.335          | 130  | 59328      | 20.772   | ug/l   | 84       |
| 38) Methylcyclohexane        | 9.582          | 83   | 86646      | 18.183   | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 71262      | 21.436   | ug/l   | 99       |
| 40) Dibromomethane           | 9.688          | 93   | 50310      | 20.170   | ug/l   | 90       |
| 41) Bromodichloromethane     | 9.865          | 83   | 105844     | 20.422   | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.589          | 43   | 1025271    | 102.828  | ug/l   | 98       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDCCC020

## Manual Integrations

## APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 02:01:21 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 119575   | 20.443  | ug/l   | 94       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 186772   | 18.837  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.682  | 88   | 20336    | 321.735 | ug/l # | 86       |
| 46) Methyl methacrylate       | 9.665  | 41   | 86691    | 18.523  | ug/l   | 94       |
| 47) n-amyl Acetate            | 12.559 | 43   | 106555m  | 19.454  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 109981   | 19.505  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 113989   | 20.087  | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 69590    | 22.082  | ug/l   | 95       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 102364   | 18.444  | ug/l   | 89       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 119980   | 21.132  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 74495    | 20.469  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 67426    | 20.155  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 271527   | 92.933  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 46759    | 19.424  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 587862   | 99.321  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 384434   | 95.594  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 47545    | 21.211  | ug/l   | 96       |
| 62) Toluene                   | 10.606 | 91   | 290343   | 20.446  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 181508   | 20.801  | ug/l   | 94       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 65246    | 21.267  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 312337   | 19.733  | ug/l   | 96       |
| 67) m/p-Xylenes               | 12.047 | 106  | 234213   | 40.313  | ug/l   | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 107889   | 18.876  | ug/l   | 98       |
| 69) Styrene                   | 12.388 | 104  | 190079   | 19.476  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 284145   | 19.568  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 108523   | 21.812  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 99508m   | 21.469  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 67183    | 19.958  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 371779   | 20.500  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 217479   | 19.495  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 247884   | 19.937  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.712 | 75   | 31232    | 17.800  | ug/l   | 77       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 227394   | 20.115  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 203826   | 19.444  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 250626   | 20.173  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 308192   | 20.195  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 250110   | 19.739  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 136995   | 21.371  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 142283   | 21.893  | ug/l   | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 248913   | 20.078  | ug/l   | 97       |
| 86) Hexachloroethane          | 14.312 | 117  | 50886    | 20.565  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 130330   | 21.300  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 22682    | 17.995  | ug/l   | 89       |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 72588    | 19.850  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 25695    | 18.070  | ug/l   | 83       |
| 91) Naphthalene               | 15.612 | 128  | 266009   | 19.078  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 72588    | 19.850  | ug/l   | 99       |

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



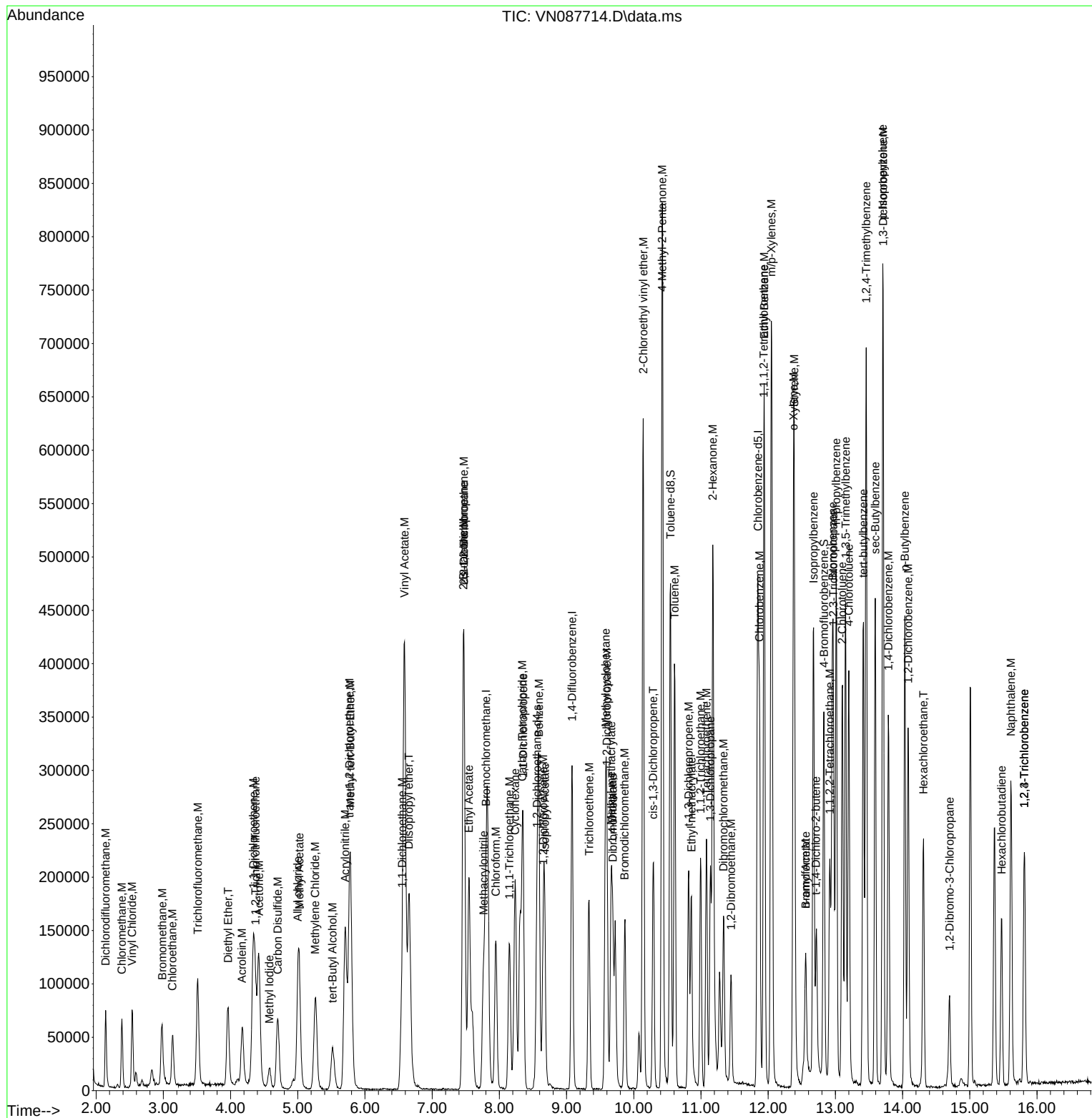
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087714.D  
Acq On : 04 Sep 2025 10:54  
Operator : JC\MD  
Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

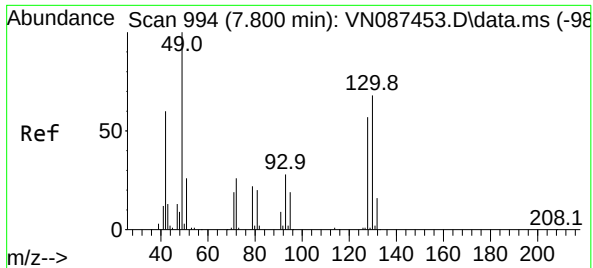
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDCCC020

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration





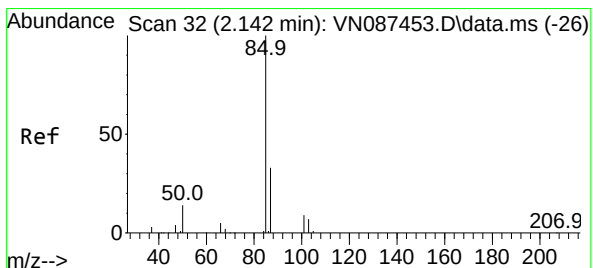
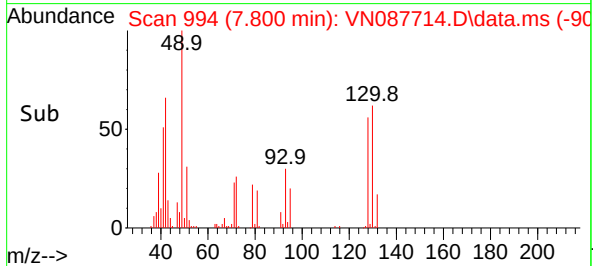
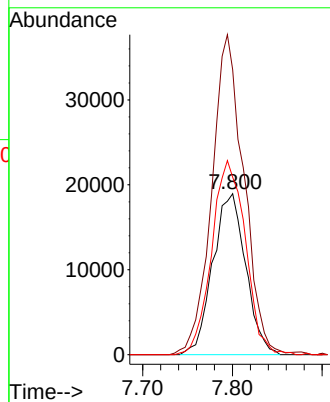
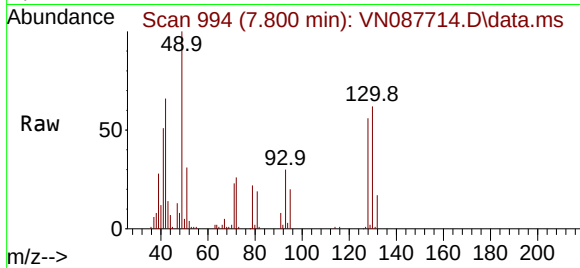
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:128 Resp: 48350  
Ion Ratio Lower Upper  
128 100  
49 192.8 0.0 494.8  
130 122.7 0.0 321.5

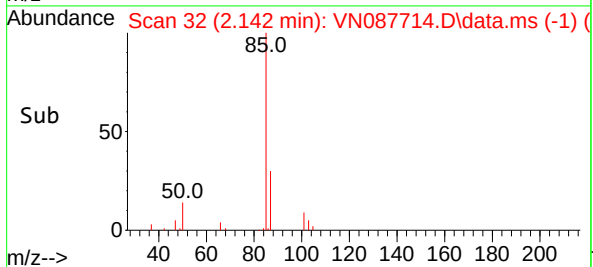
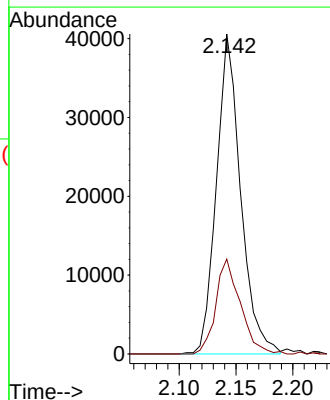
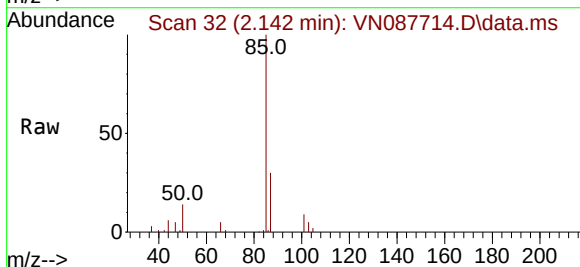
Manual Integrations  
APPROVED

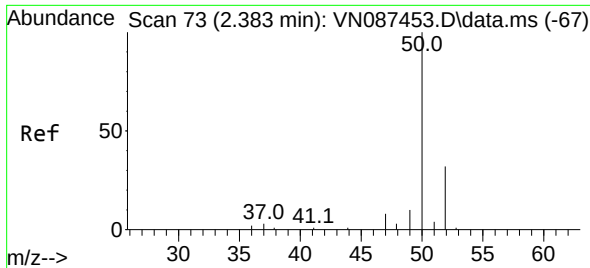
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 19.049 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 85 Resp: 60133  
Ion Ratio Lower Upper  
85 100  
87 29.7 16.4 49.2





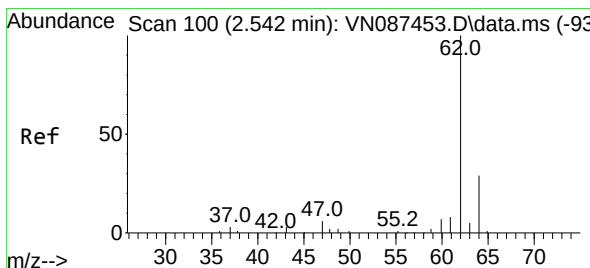
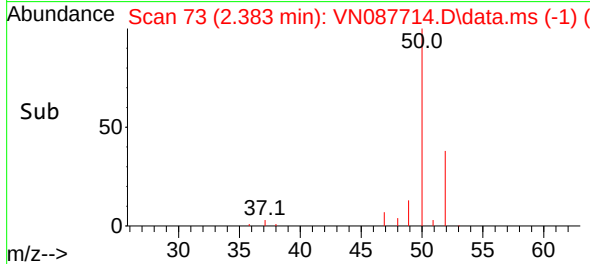
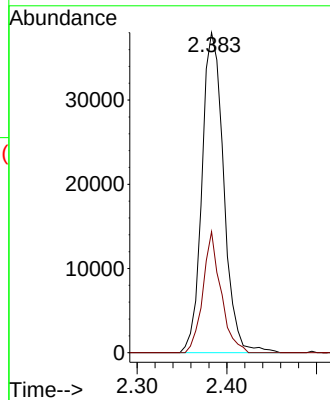
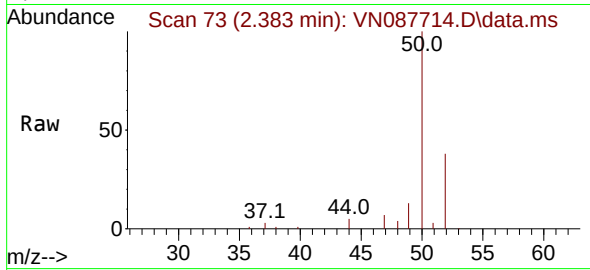
#3  
Chloromethane  
Concen: 19.766 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 50 Resp: 64019  
Ion Ratio Lower Upper  
50 100  
52 37.8 25.8 38.6

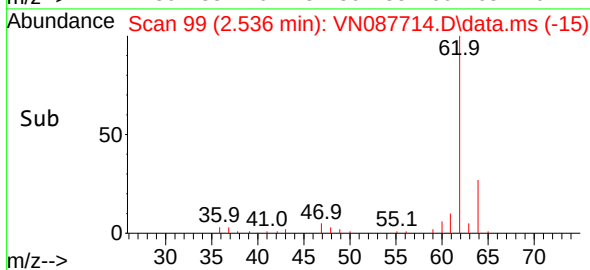
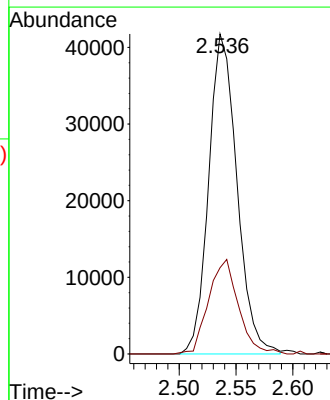
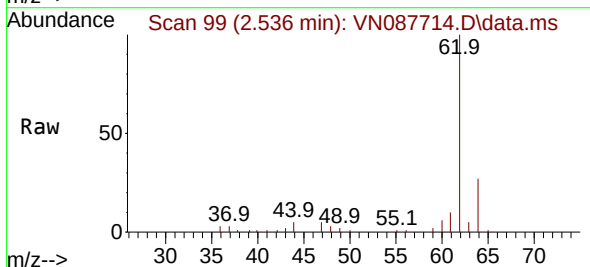
Manual Integrations  
APPROVED

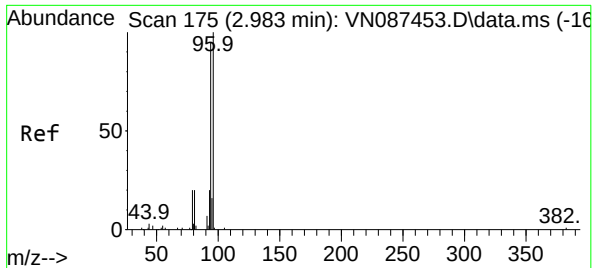
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 21.045 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

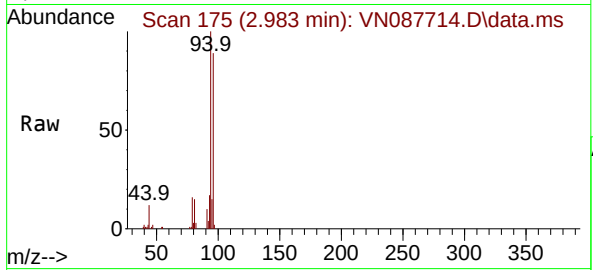
Tgt Ion: 62 Resp: 72293  
Ion Ratio Lower Upper  
62 100  
64 26.6 23.4 35.2





#5  
Bromomethane  
Concen: 24.291 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

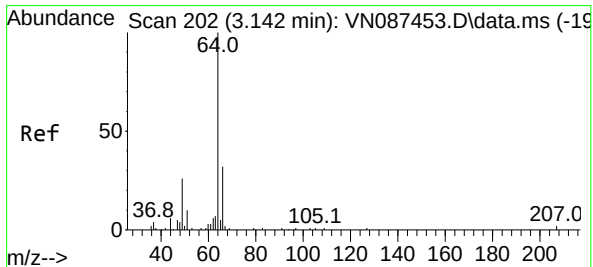
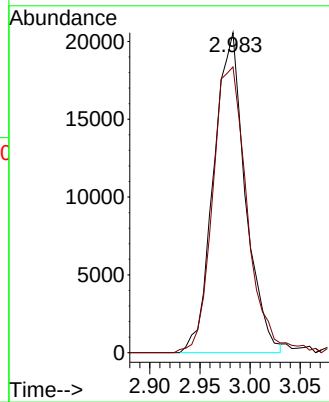
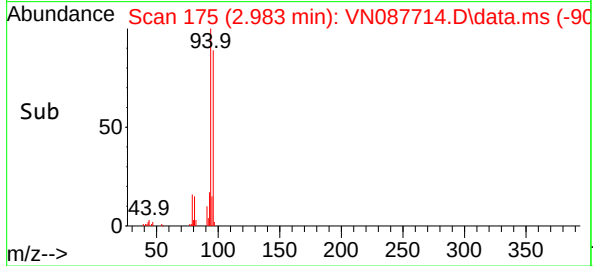
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 94 Resp: 4516  
Ion Ratio Lower Upper  
94 100  
96 88.3 84.2 126.4

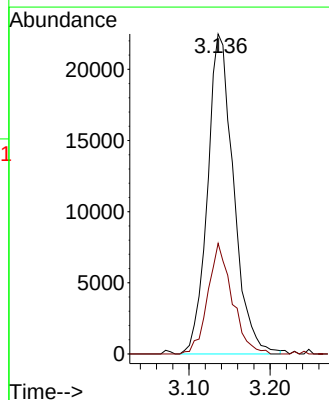
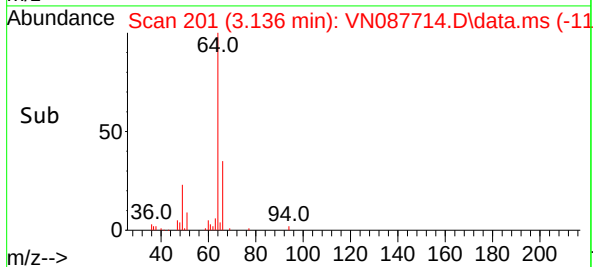
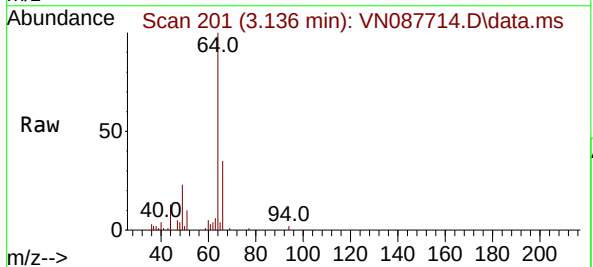
Manual Integrations  
APPROVED

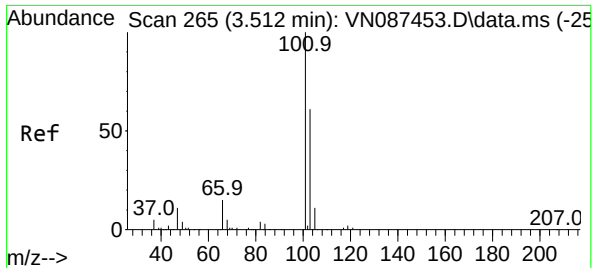
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 22.610 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

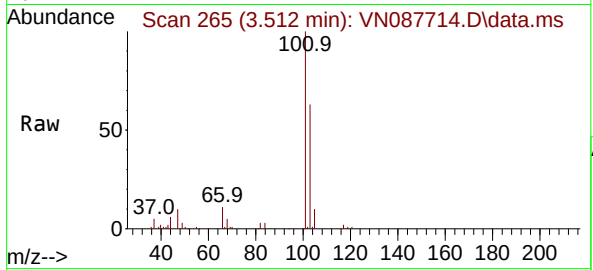
Tgt Ion: 64 Resp: 50084  
Ion Ratio Lower Upper  
64 100  
66 34.6 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 21.576 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

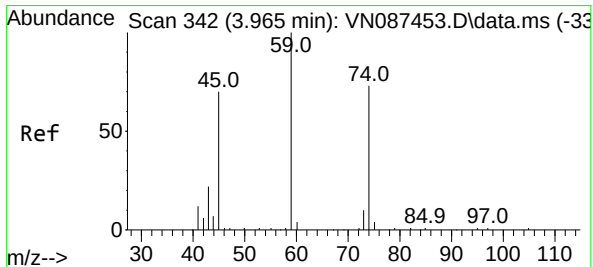
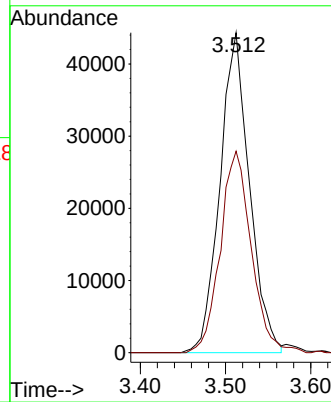
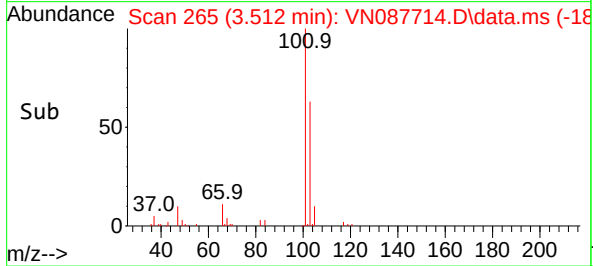
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:101 Resp: 106668  
Ion Ratio Lower Upper  
101 100  
103 62.9 49.2 73.8

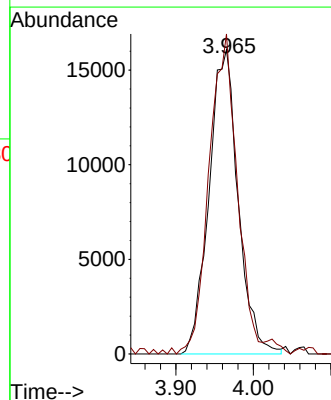
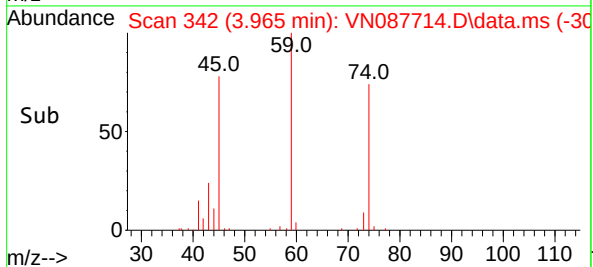
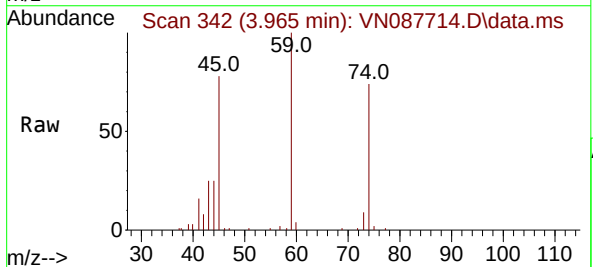
Manual Integrations  
APPROVED

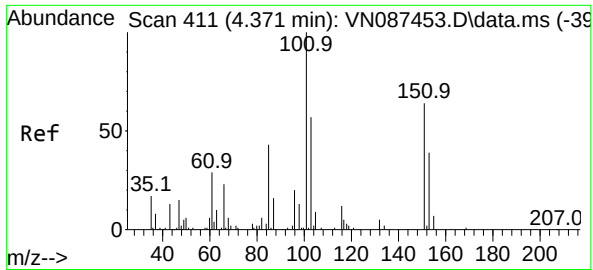
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 20.425 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 74 Resp: 42068  
Ion Ratio Lower Upper  
74 100  
45 101.4 20.1 180.9





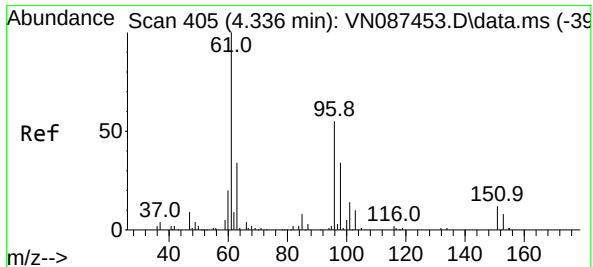
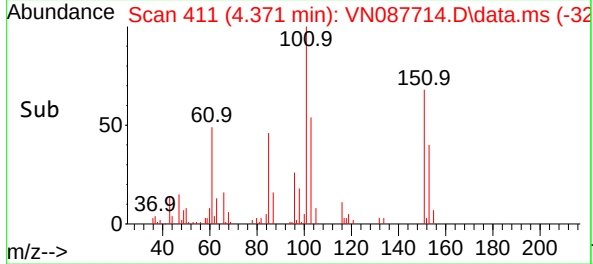
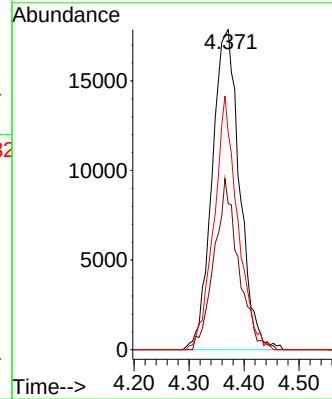
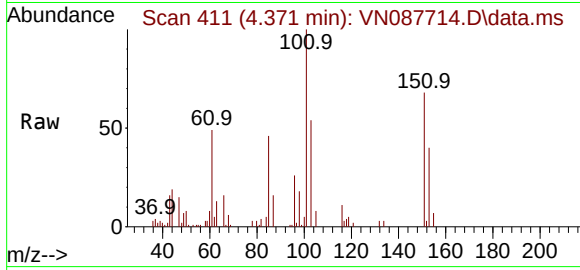
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 24.706 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 101 Resp: 62284  
Ion Ratio Lower Upper  
101 100  
85 46.2 0.0 57.0  
151 68.1 0.0 134.2

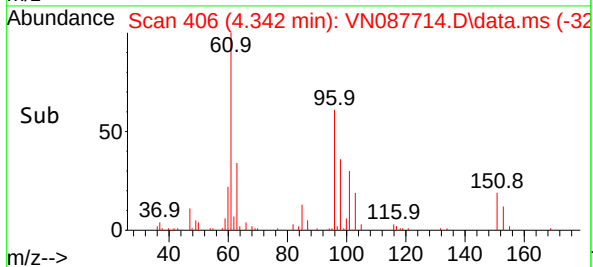
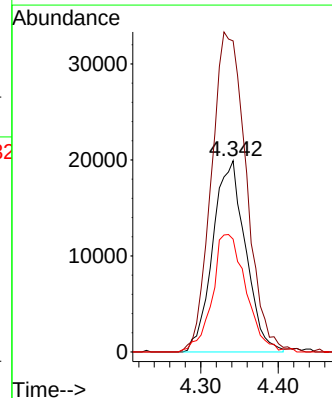
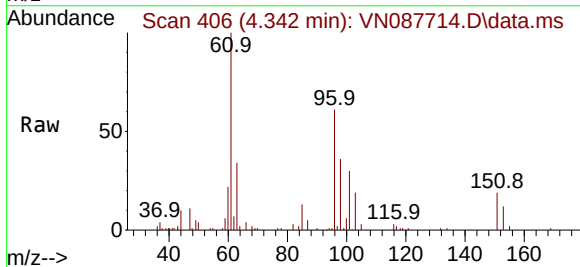
Manual Integrations  
APPROVED

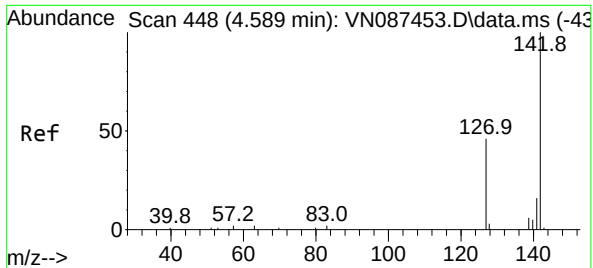
Reviewed By : Semsettin Yesilyurt 09/05/2025  
Supervised By : Mahesh Dadoda 09/05/2025



#10  
1,1-Dichloroethene  
Concen: 22.063 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

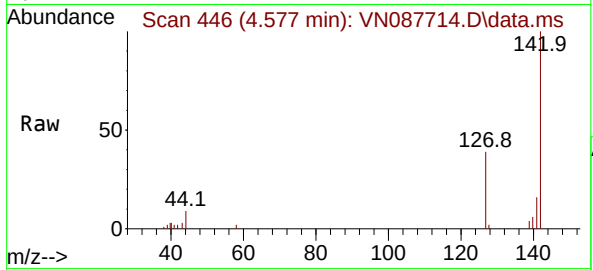
Tgt Ion: 96 Resp: 58425  
Ion Ratio Lower Upper  
96 100  
61 161.7 144.2 216.4  
98 57.8 49.7 74.5





#11  
Methyl Iodide  
Concen: 15.448 ug/l  
RT: 4.577 min Scan# 448  
Delta R.T. -0.012 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

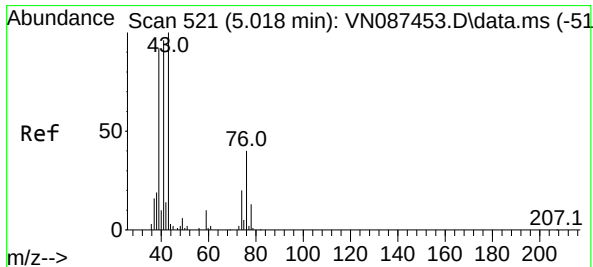
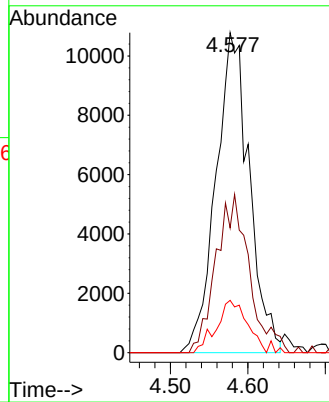
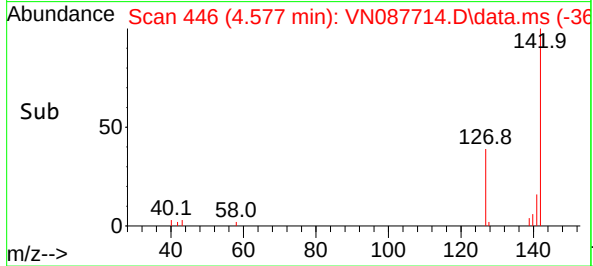
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:142 Resp: 32210  
Ion Ratio Lower Upper  
142 100  
127 37.1 22.9 68.7  
141 15.8 7.7 23.1

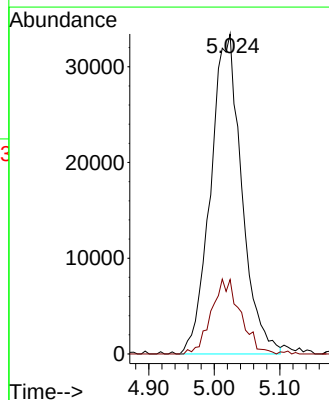
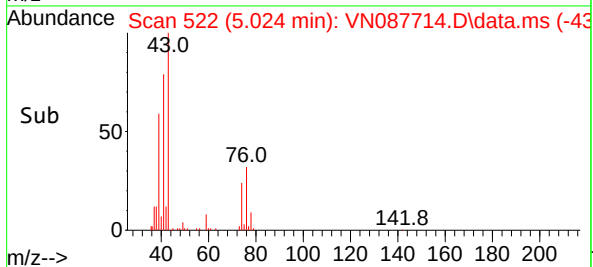
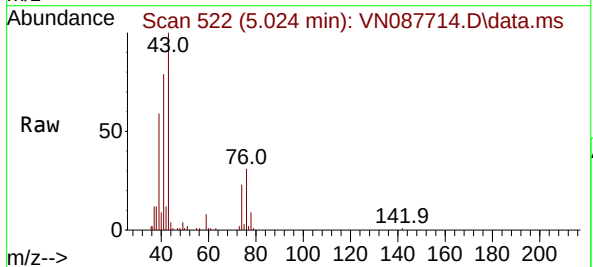
Manual Integrations  
APPROVED

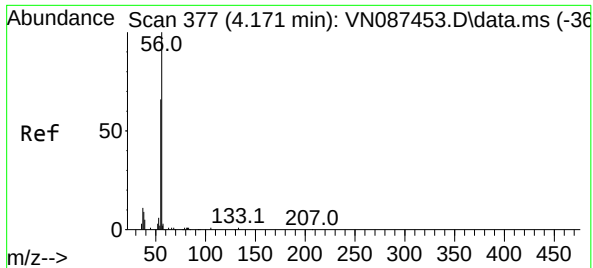
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#12  
Methyl Acetate  
Concen: 22.519 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 110045  
Ion Ratio Lower Upper  
43 100  
74 23.1 16.0 24.0





#13

Acrolein

Concen: 95.068 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 56 Resp: 70950

Ion Ratio Lower Upper

56 100

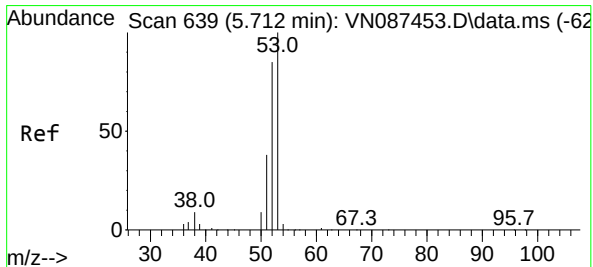
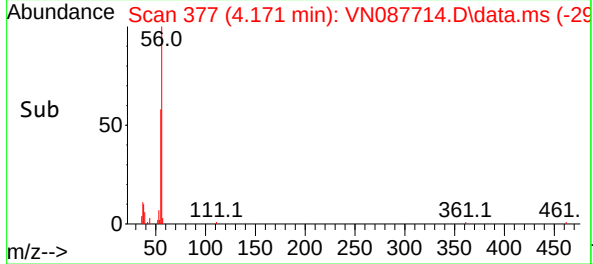
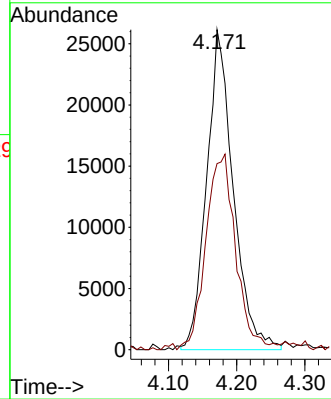
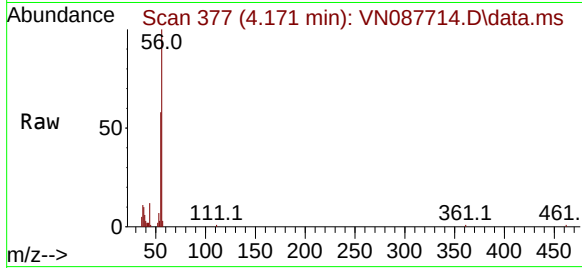
55 67.9 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 93.724 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

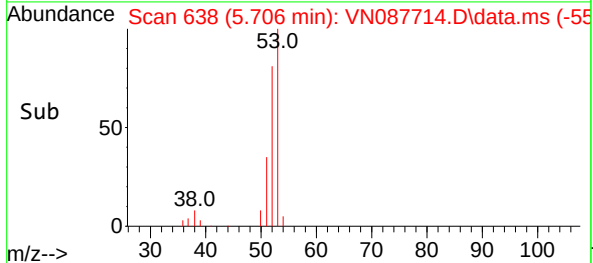
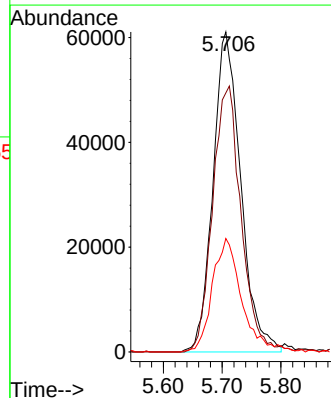
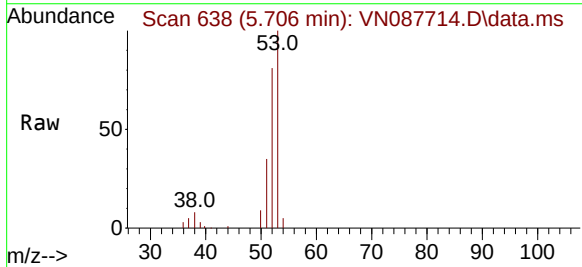
Tgt Ion: 53 Resp: 199993

Ion Ratio Lower Upper

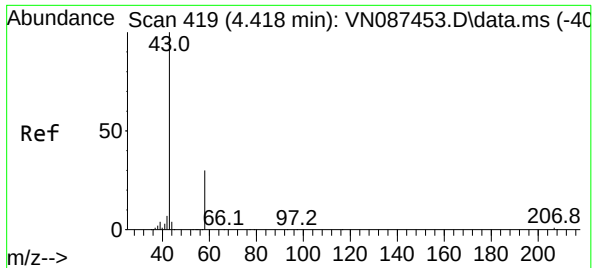
53 100

52 84.6 42.4 127.2

51 36.6 18.5 55.5

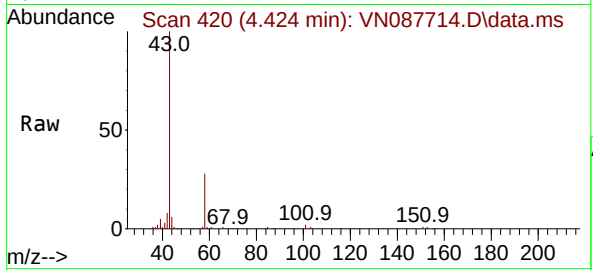






#15  
Acetone  
Concen: 109.668 ug/l m  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

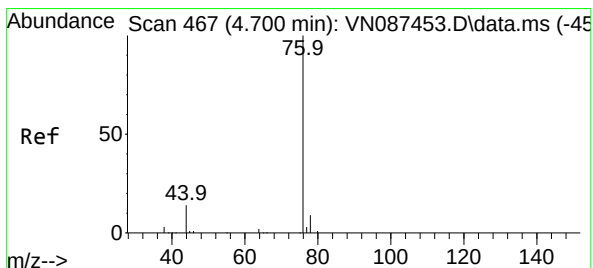
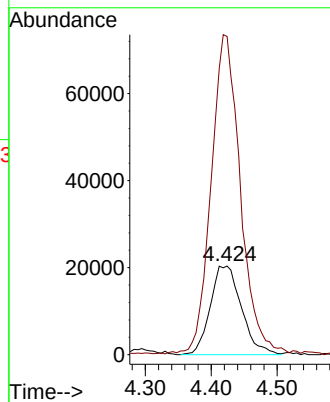
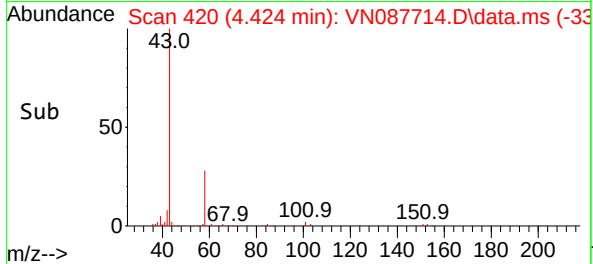
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 58 Resp: 66864  
Ion Ratio Lower Upper  
58 100  
43 359.1 268.9 403.3

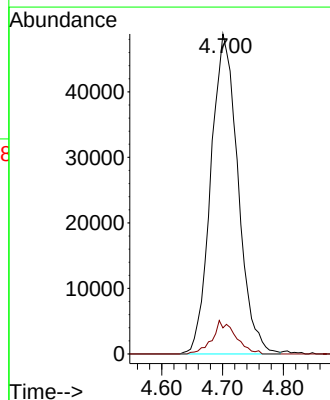
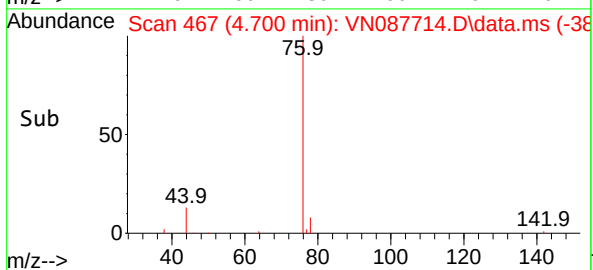
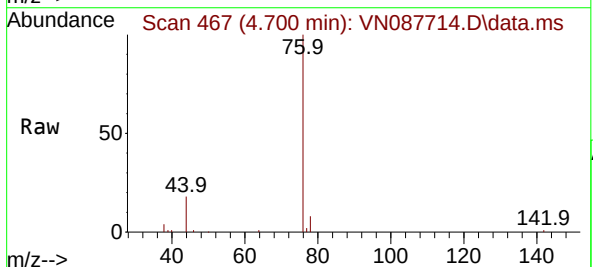
Manual Integrations  
APPROVED

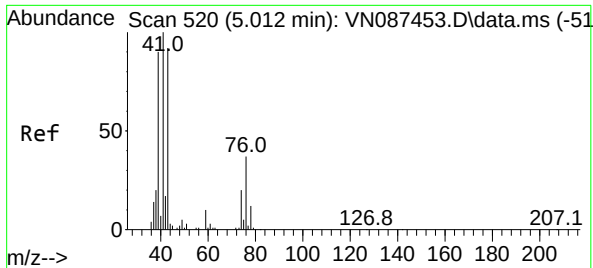
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#16  
Carbon Disulfide  
Concen: 18.410 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

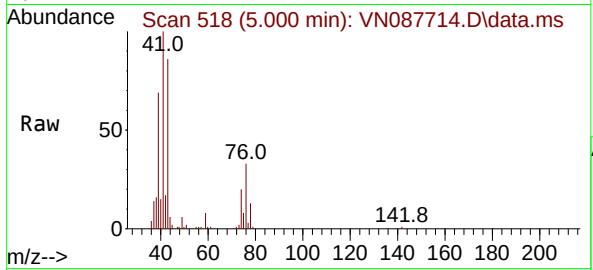
Tgt Ion: 76 Resp: 151225  
Ion Ratio Lower Upper  
76 100  
78 8.1 7.1 10.7





#17  
 Allyl chloride  
 Concen: 18.307 ug/l m  
 RT: 5.000 min Scan# 51  
 Delta R.T. -0.012 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

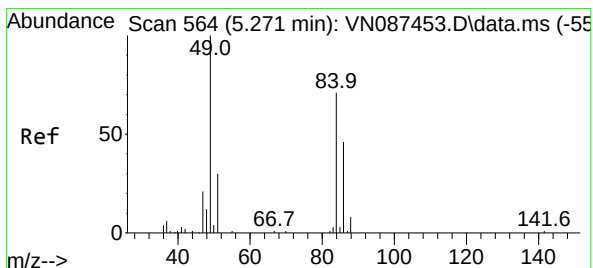
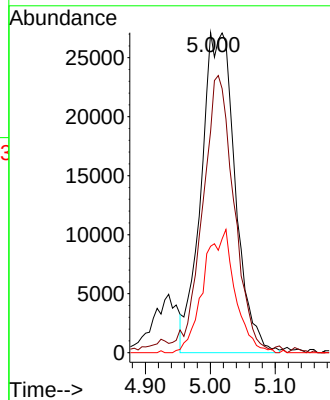
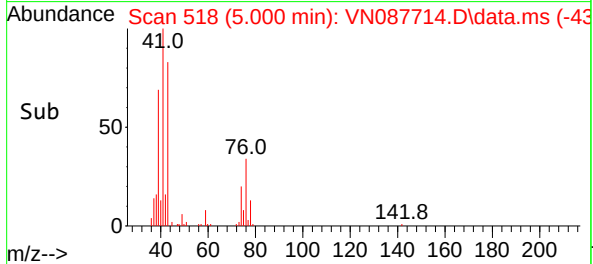
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020



Tgt Ion: 41 Resp: 9881  
 Ion Ratio Lower Upper  
 41 100  
 39 69.2 42.4 127.2  
 76 33.3 16.9 50.6

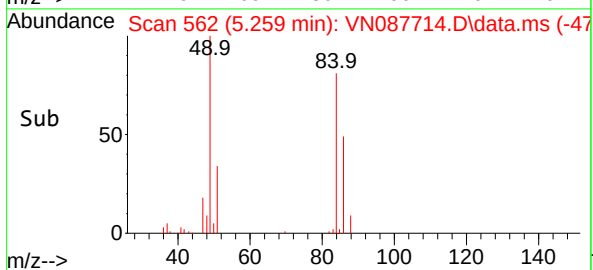
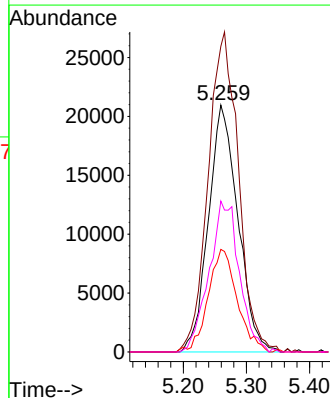
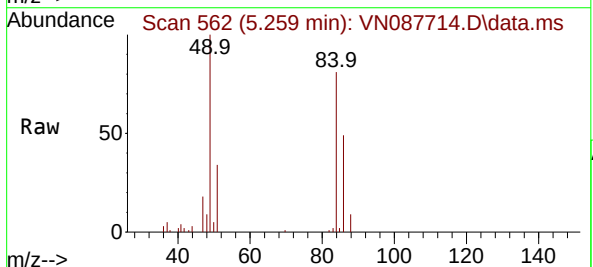
Manual Integrations  
 APPROVED

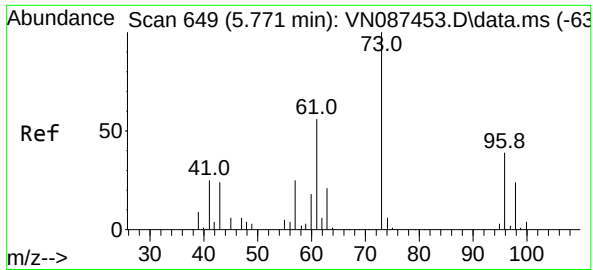
Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025



#18  
 Methylene Chloride  
 Concen: 19.962 ug/l  
 RT: 5.259 min Scan# 562  
 Delta R.T. -0.012 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 84 Resp: 68053  
 Ion Ratio Lower Upper  
 84 100  
 49 123.8 112.9 169.3  
 51 40.8 33.8 50.8  
 86 61.1 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 18.378 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087714.D

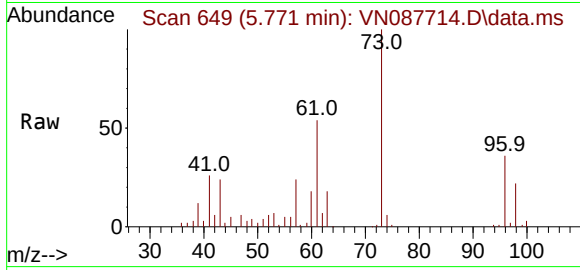
Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020



Tgt Ion: 96 Resp: 5787

Ion Ratio Lower Upper

96 100

61 150.7 114.2 171.4

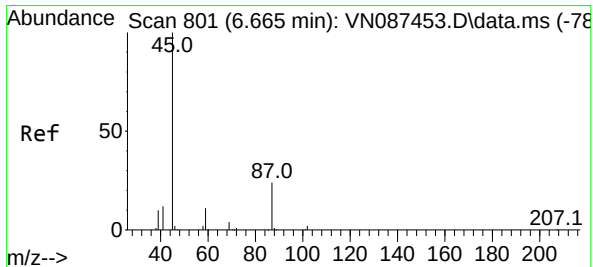
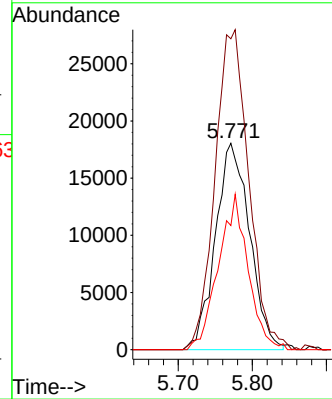
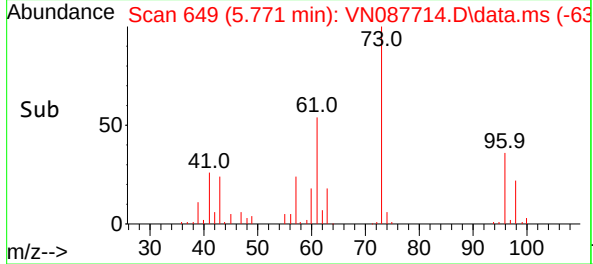
98 60.2 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 18.574 ug/l

RT: 6.653 min Scan# 799

Delta R.T. -0.012 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 45 Resp: 228386

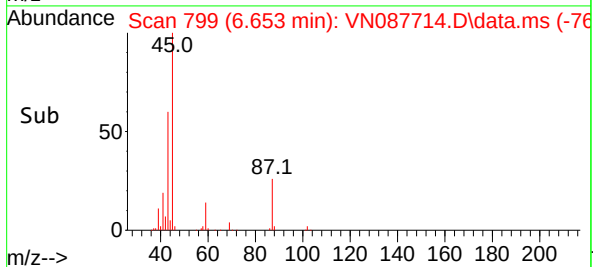
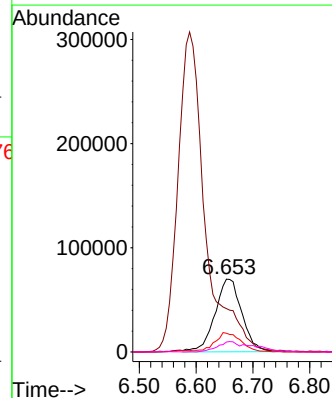
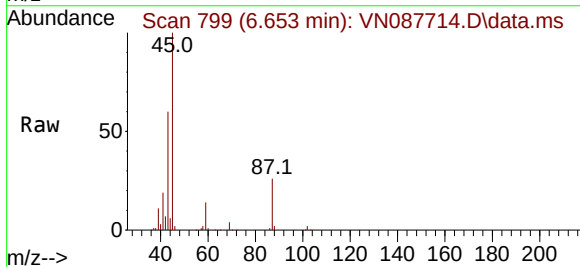
Ion Ratio Lower Upper

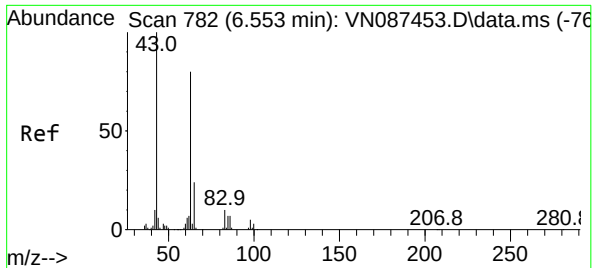
45 100

43 57.9 44.7 67.1

87 25.9 20.2 30.2

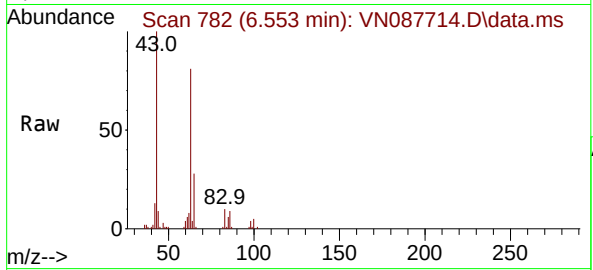
59 13.6 8.7 13.1#





#21  
1,1-Dichloroethane  
Concen: 19.385 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

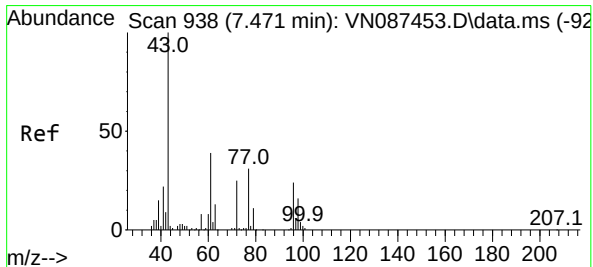
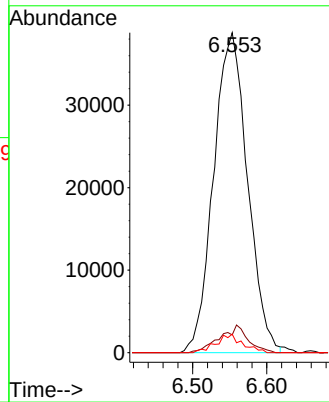
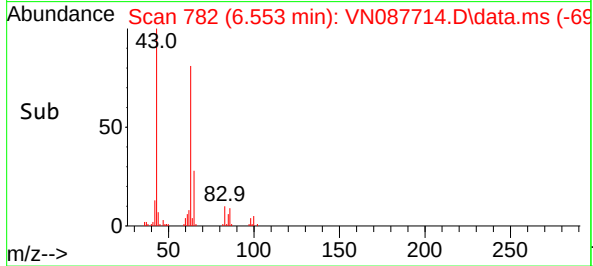
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 63 Resp: 123208  
Ion Ratio Lower Upper  
63 100  
98 5.5 3.0 9.0  
100 5.8 1.9 5.7

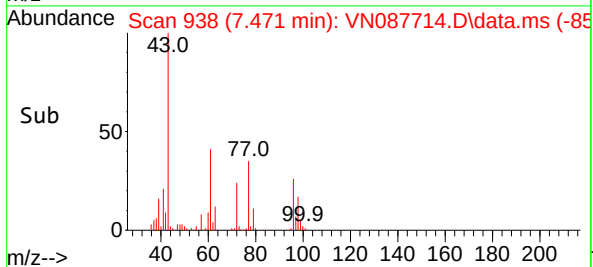
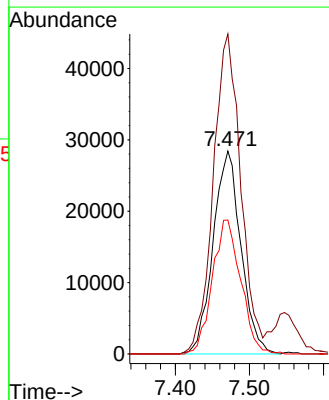
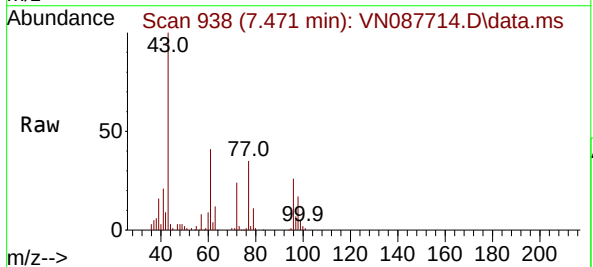
Manual Integrations  
APPROVED

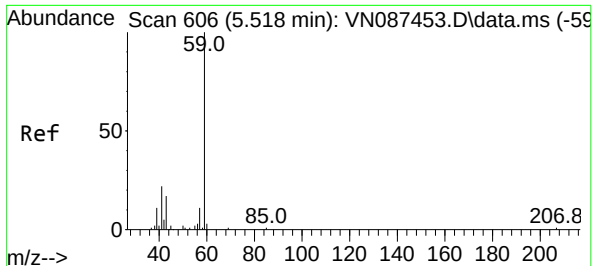
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22  
cis-1,2-Dichloroethene  
Concen: 19.126 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

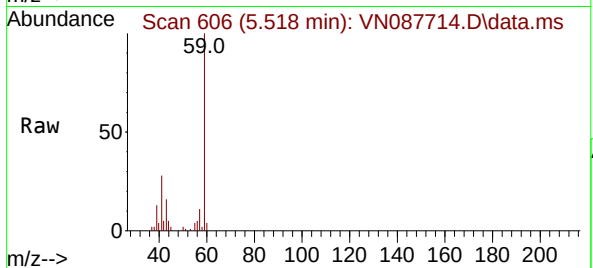
Tgt Ion: 96 Resp: 74107  
Ion Ratio Lower Upper  
96 100  
61 155.7 126.6 190.0  
98 67.2 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 77.117 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

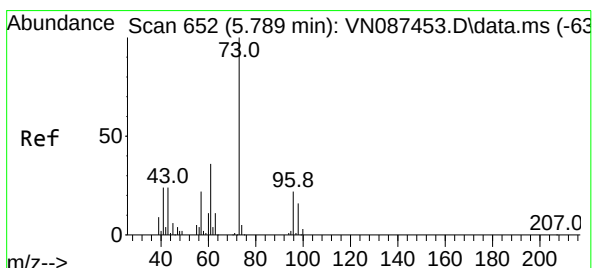
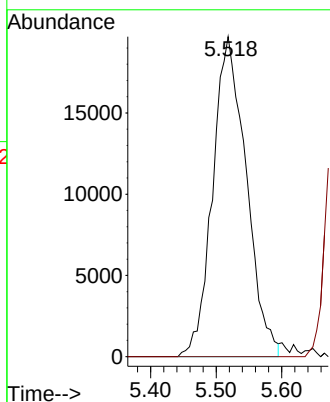
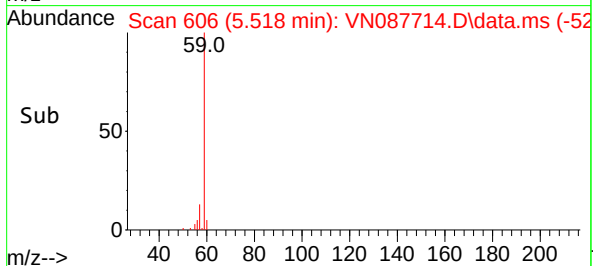
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 59 Resp: 69925  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

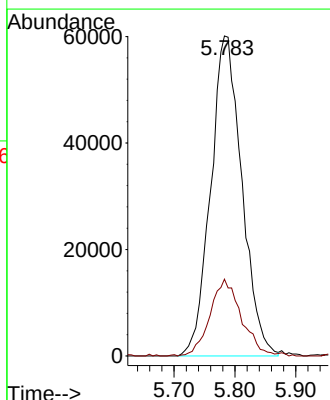
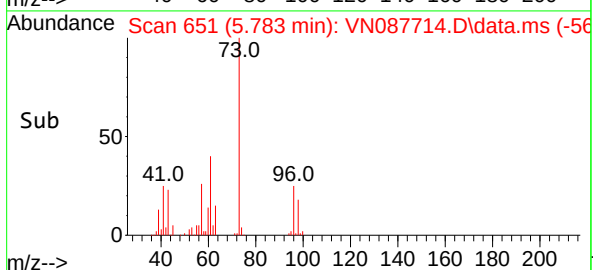
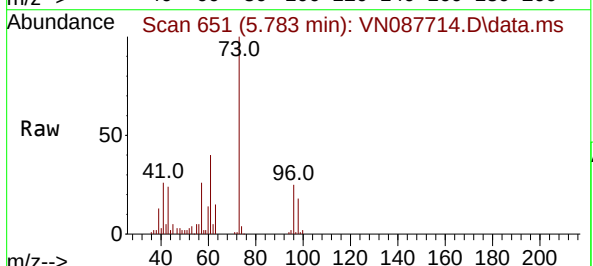
Manual Integrations  
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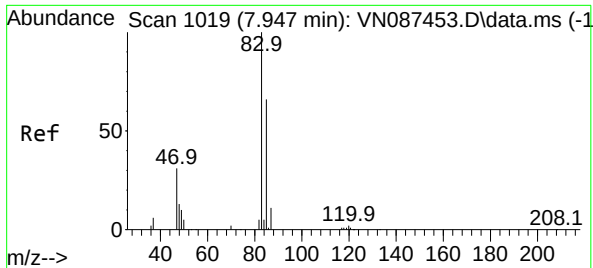
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#24  
Methyl tert-Butyl Ether  
Concen: 17.719 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 73 Resp: 213810  
Ion Ratio Lower Upper  
73 100  
43 24.0 19.9 29.9





#25

Chloroform

Concen: 19.968 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 83 Resp: 132472

Ion Ratio Lower Upper

83 100

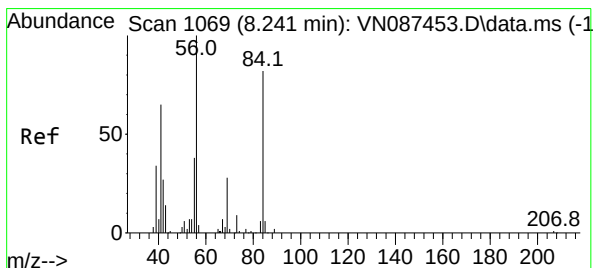
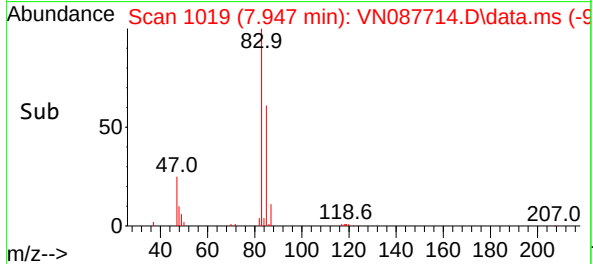
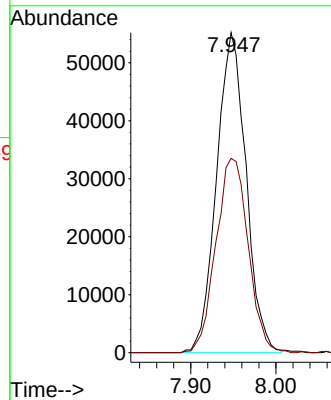
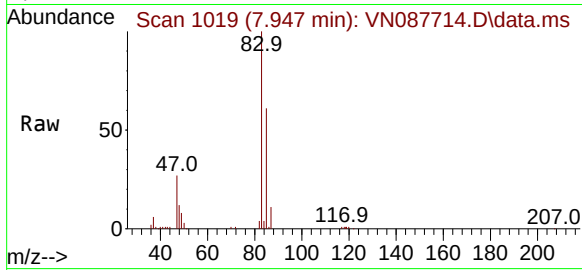
85 60.7 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 17.583 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

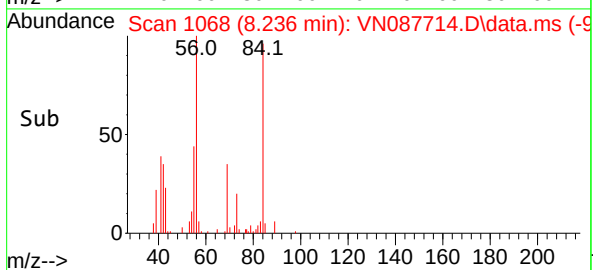
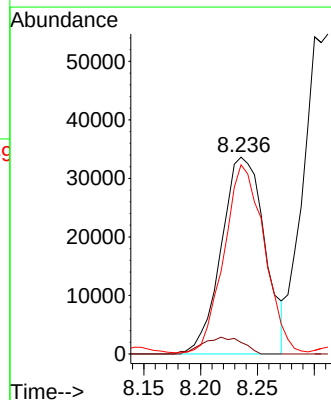
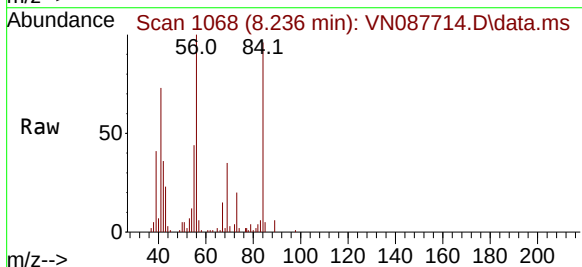
Tgt Ion: 56 Resp: 89474

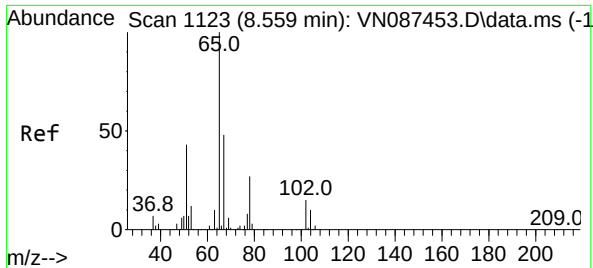
Ion Ratio Lower Upper

56 100

89 7.9 2.3 3.5#

84 89.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.933 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 65 Resp: 124569

Ion Ratio Lower Upper

65 100

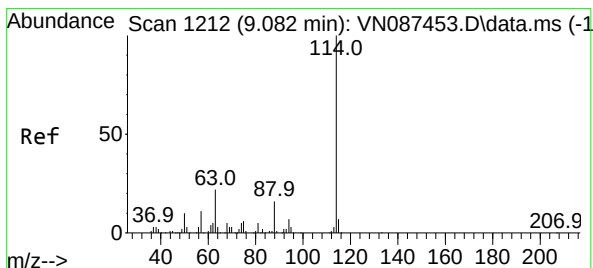
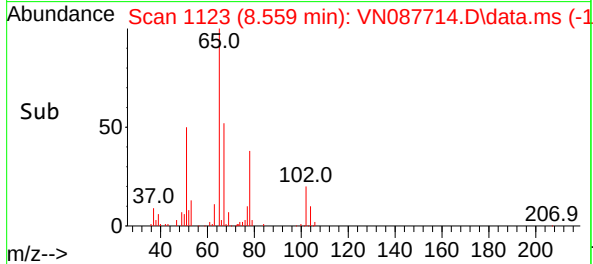
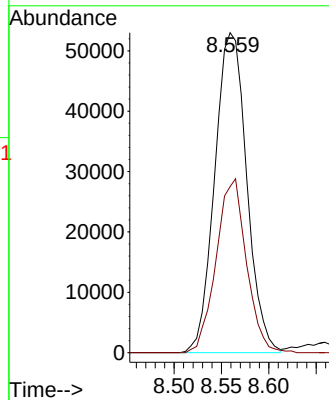
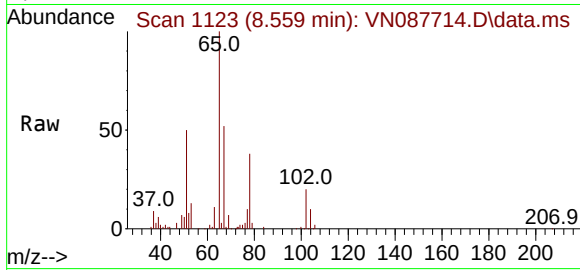
67 51.4 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

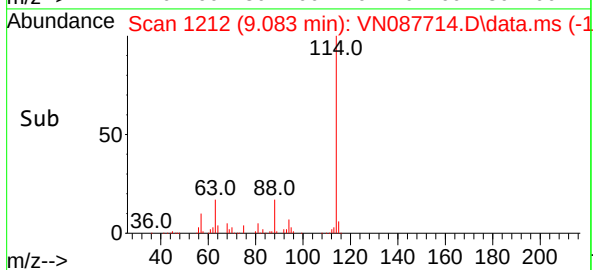
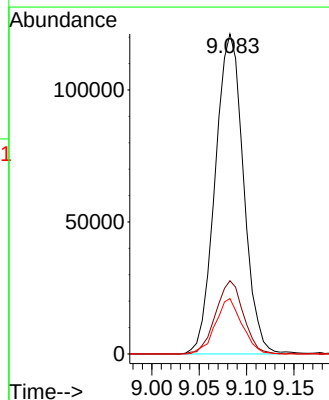
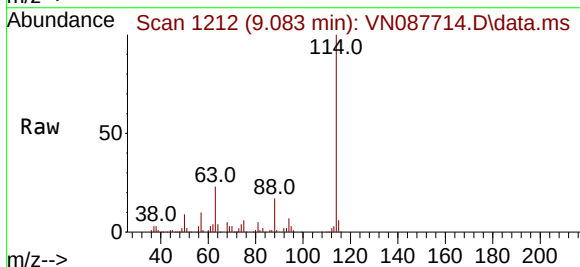
Tgt Ion:114 Resp: 251837

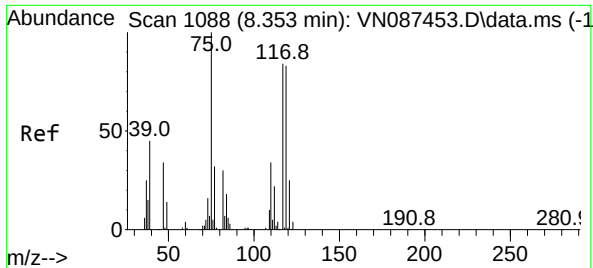
Ion Ratio Lower Upper

114 100

63 22.5 18.9 28.3

88 16.3 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.075 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

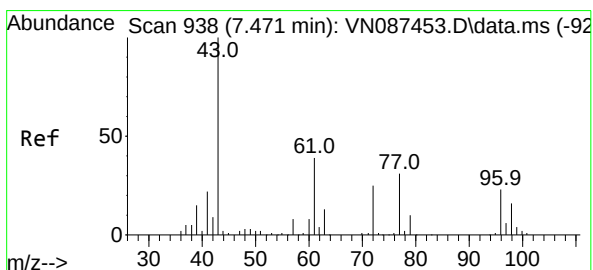
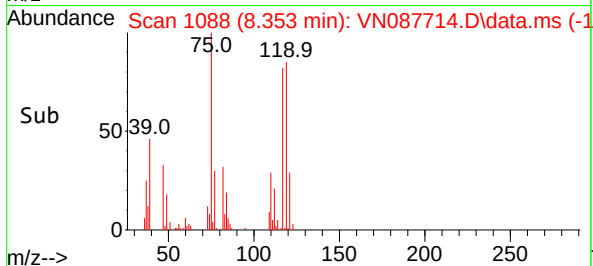
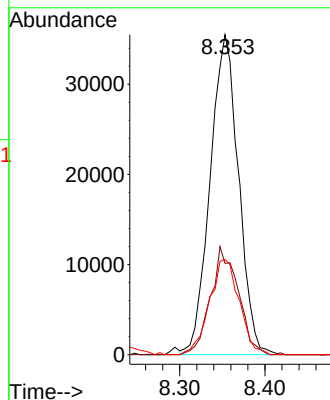
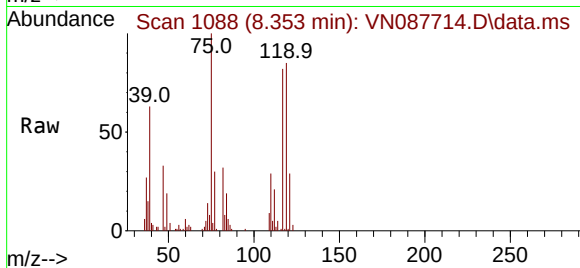
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 8245  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 32.8    | 0.0 65.8    |
| 77 31.2     | 0.0 63.6    |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 96.824 ug/l

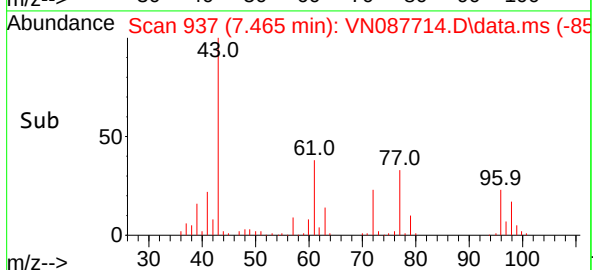
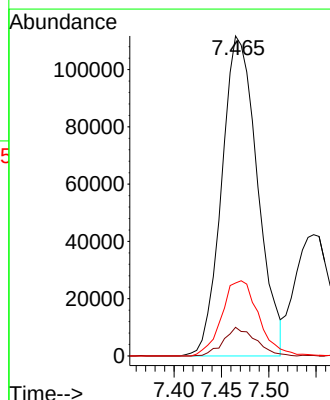
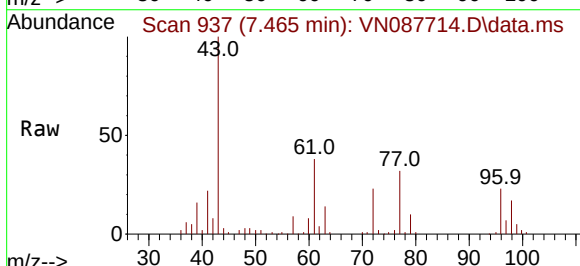
RT: 7.465 min Scan# 937

Delta R.T. -0.006 min

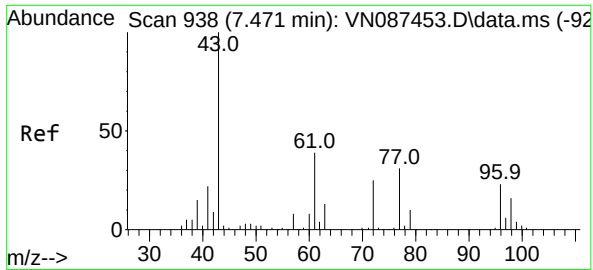
Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 293154 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.1      | 6.6 9.8      |
| 72 24.2     | 19.7 29.5    |

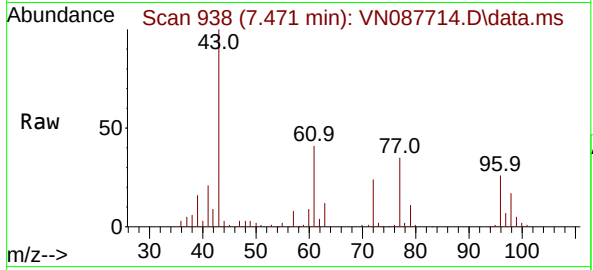






#31  
2,2-Dichloropropane  
Concen: 21.065 ug/l  
RT: 7.471 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

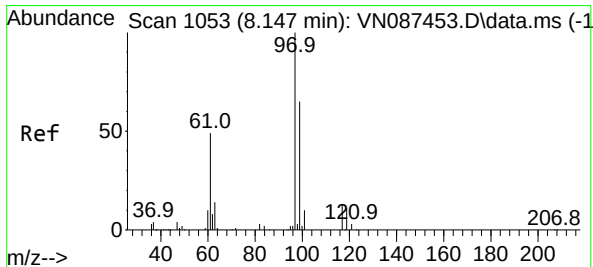
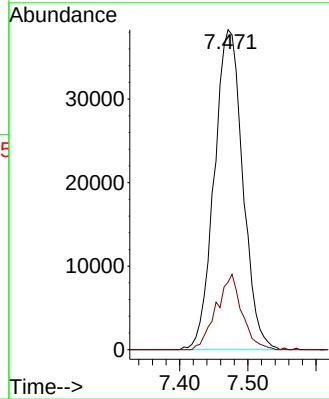
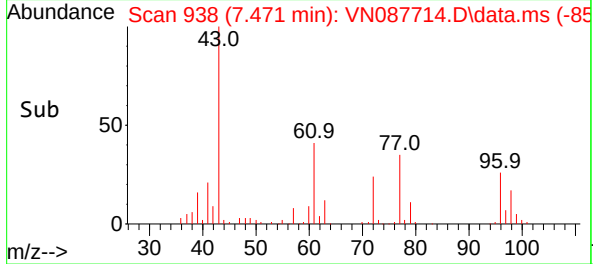
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 77 Resp: 111592  
Ion Ratio Lower Upper  
77 100  
97 21.1 16.7 25.1

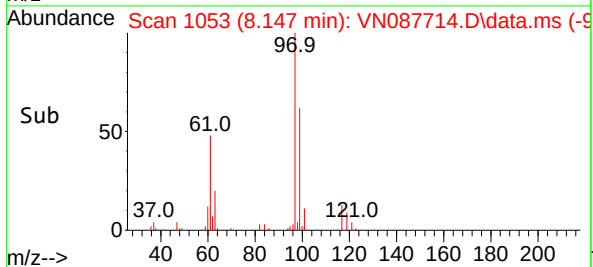
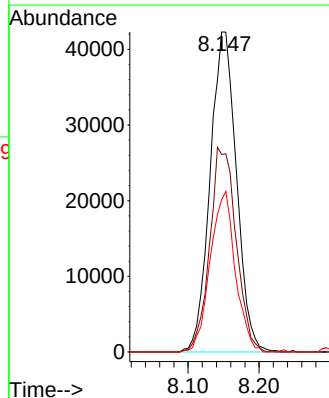
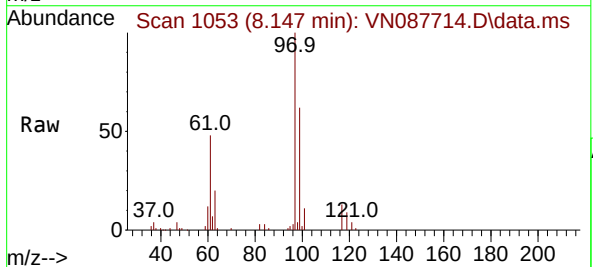
Manual Integrations  
APPROVED

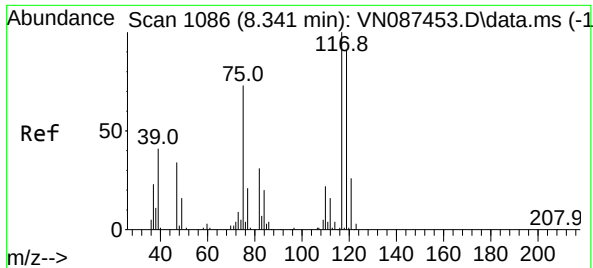
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#32  
1,1,1-Trichloroethane  
Concen: 20.808 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

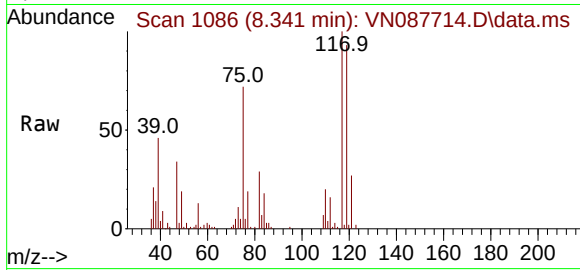
Tgt Ion: 97 Resp: 109005  
Ion Ratio Lower Upper  
97 100  
99 64.0 53.0 79.6  
61 47.8 40.6 61.0





#33  
Carbon Tetrachloride  
Concen: 20.620 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

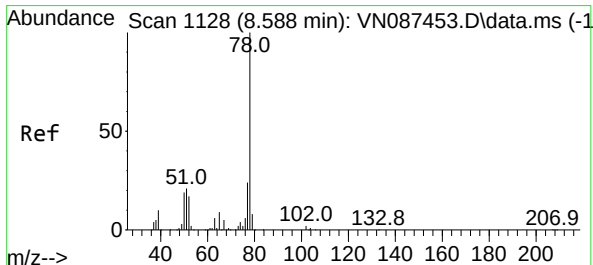
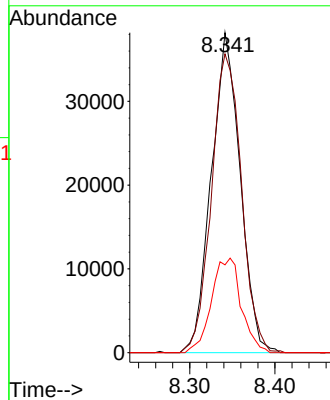
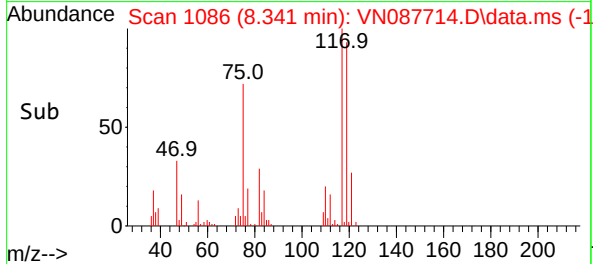
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 117 Resp: 89740  
Ion Ratio Lower Upper  
117 100  
119 93.3 73.4 110.0  
121 27.4 21.1 31.7

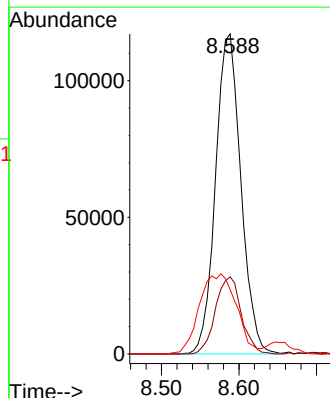
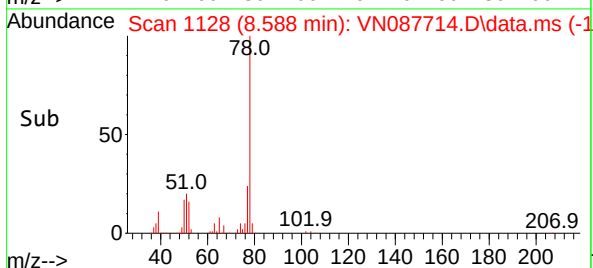
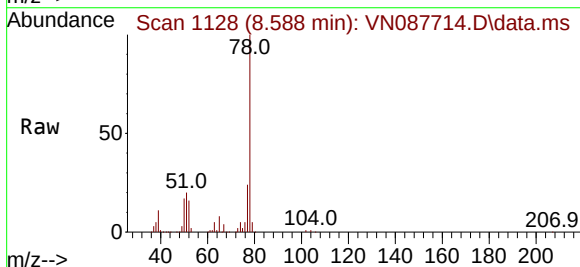
Manual Integrations  
APPROVED

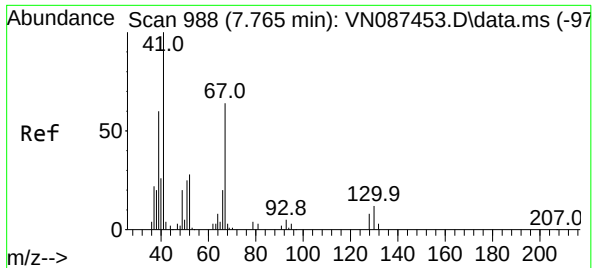
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 20.573 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

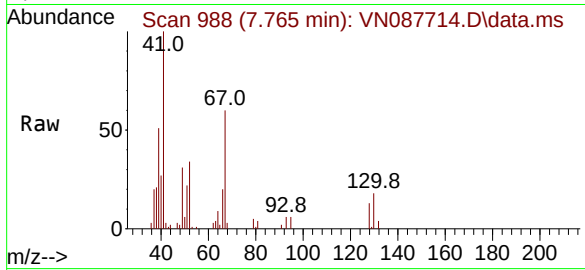
Tgt Ion: 78 Resp: 266751  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.2 28.8  
51 19.5 16.9 25.3





#35  
Methacrylonitrile  
Concen: 18.966 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

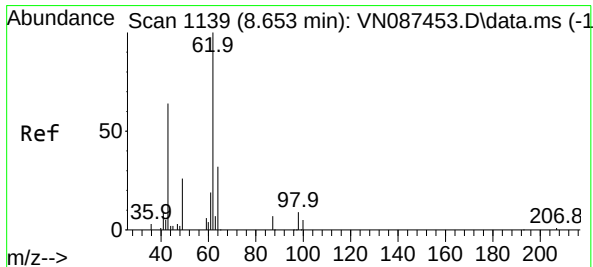
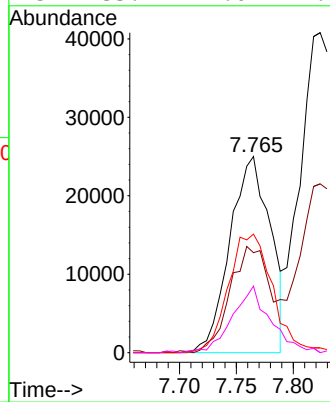
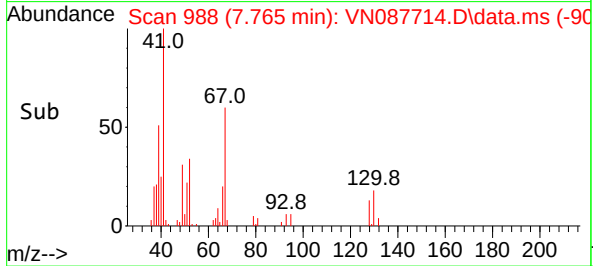
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 41 Resp: 61968  
Ion Ratio Lower Upper  
41 100  
39 50.0 30.1 90.5  
67 60.5 32.0 96.2  
52 33.9 14.0 42.0

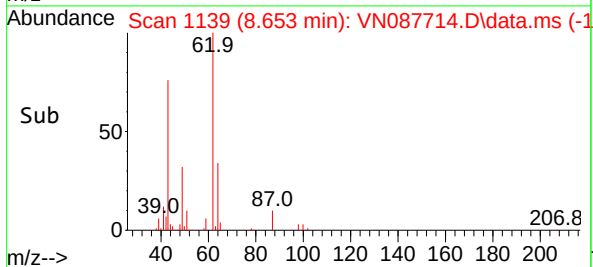
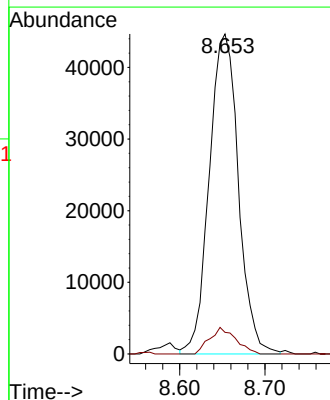
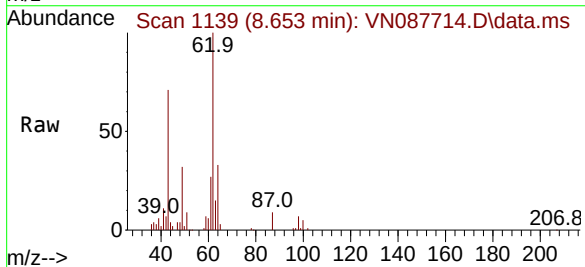
Manual Integrations  
APPROVED

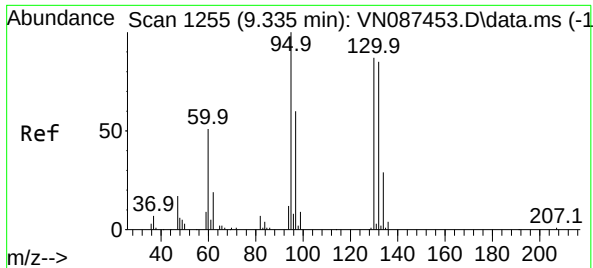
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#36  
1,2-Dichloroethane  
Concen: 20.317 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

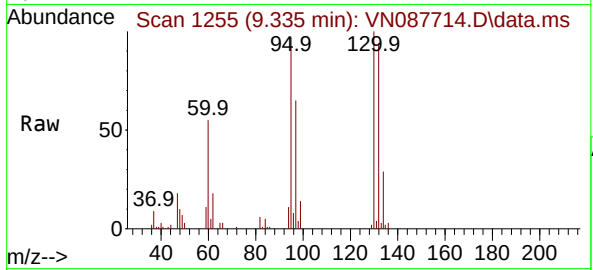
Tgt Ion: 62 Resp: 106474  
Ion Ratio Lower Upper  
62 100  
98 7.4 6.6 9.8





#37  
Trichloroethene  
Concen: 20.772 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

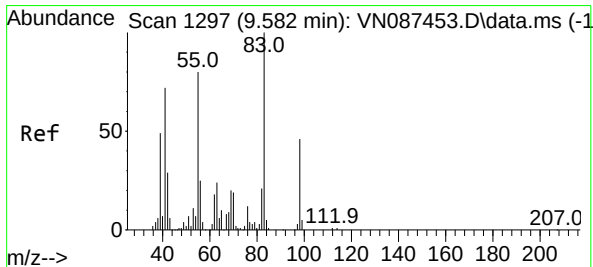
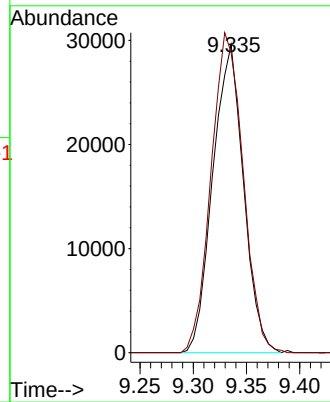
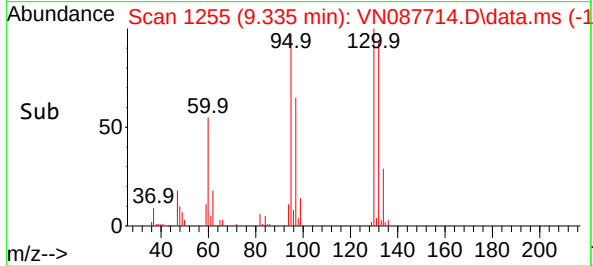
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



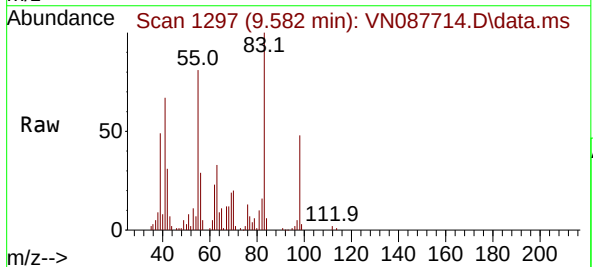
Tgt Ion:130 Resp: 59328  
Ion Ratio Lower Upper  
130 100  
95 97.4 91.4 137.2

Manual Integrations  
APPROVED

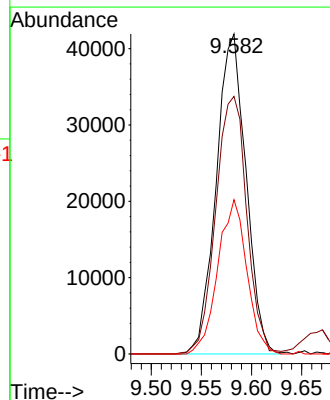
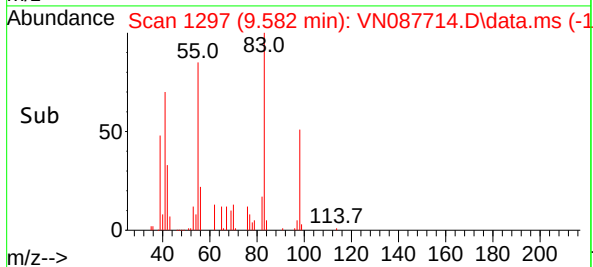
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

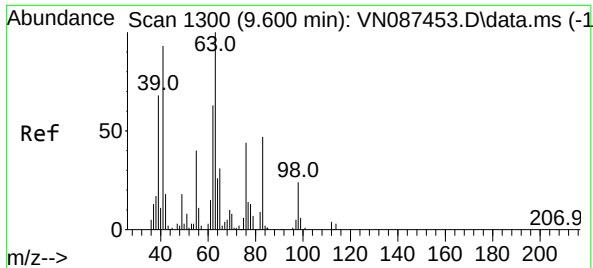


#38  
Methylcyclohexane  
Concen: 18.183 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



Tgt Ion: 83 Resp: 86646  
Ion Ratio Lower Upper  
83 100  
55 83.5 41.2 123.6  
98 46.9 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.436 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 7126

Ion Ratio Lower Upper

63 100

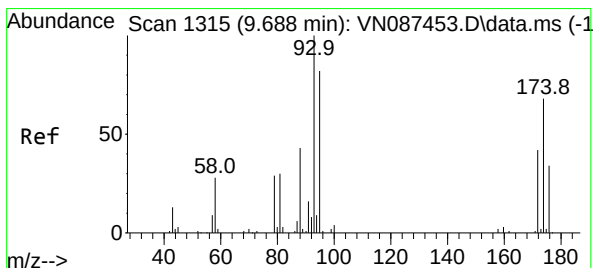
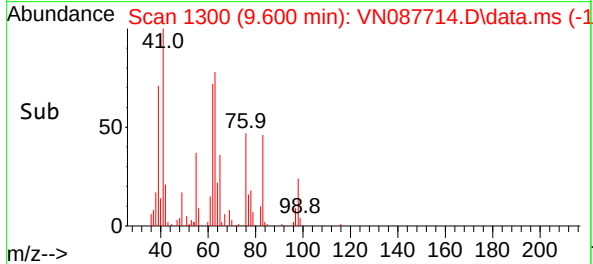
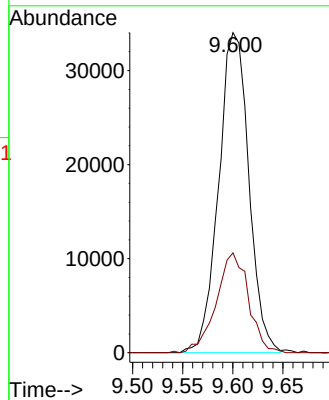
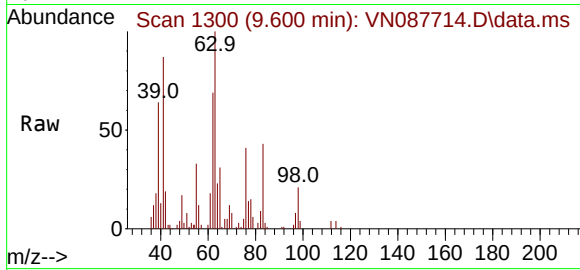
65 31.2 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 20.170 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

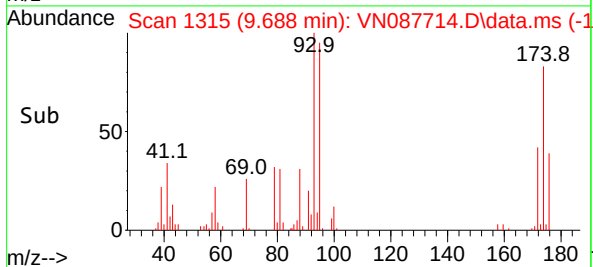
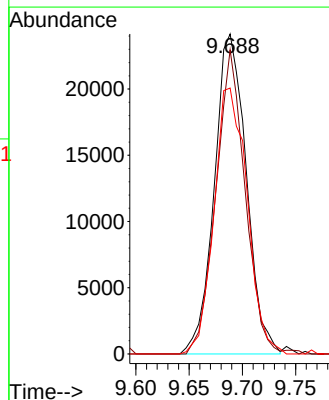
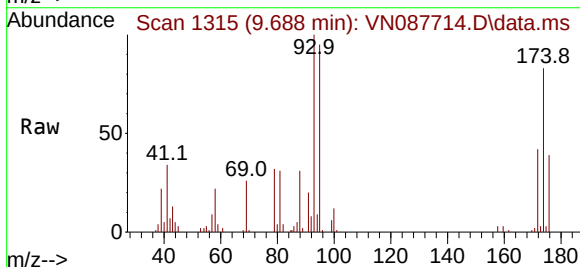
Tgt Ion: 93 Resp: 50310

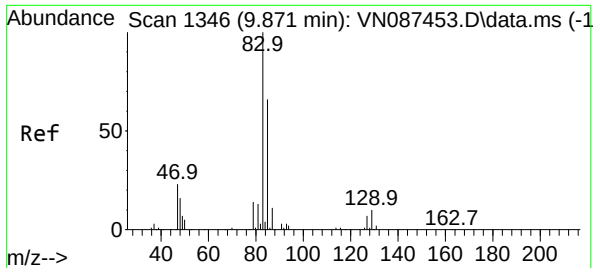
Ion Ratio Lower Upper

93 100

95 86.8 0.0 161.6

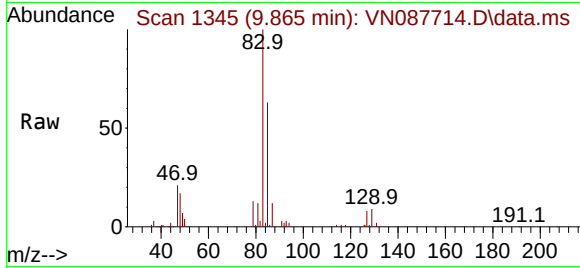
174 86.3 0.0 151.4





#41  
Bromodichloromethane  
Concen: 20.422 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

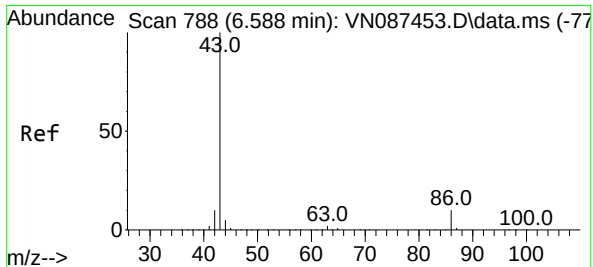
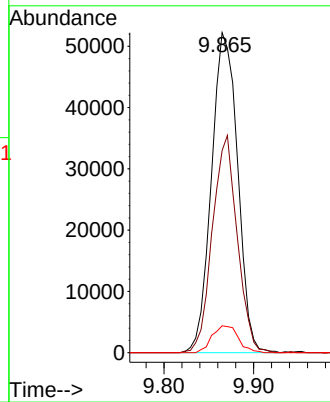
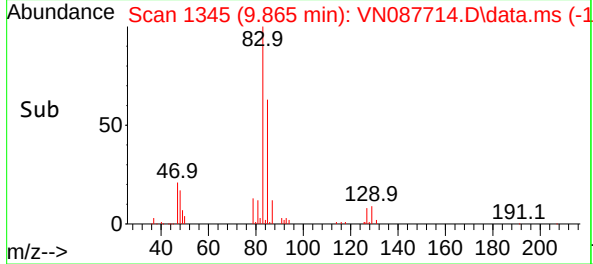
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 83 Resp: 105844  
Ion Ratio Lower Upper  
83 100  
85 63.2 52.9 79.3  
127 8.4 5.8 8.6

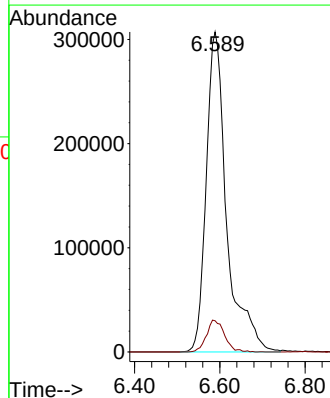
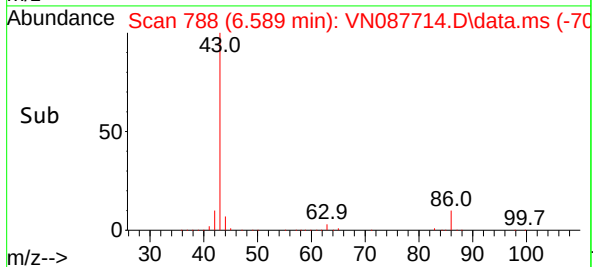
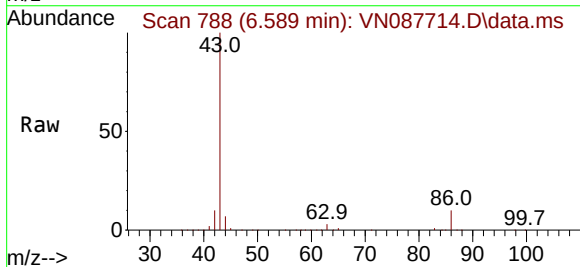
Manual Integrations  
APPROVED

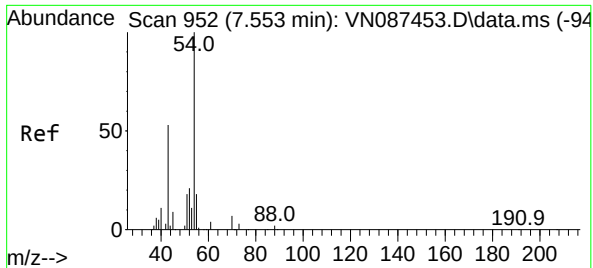
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 102.828 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

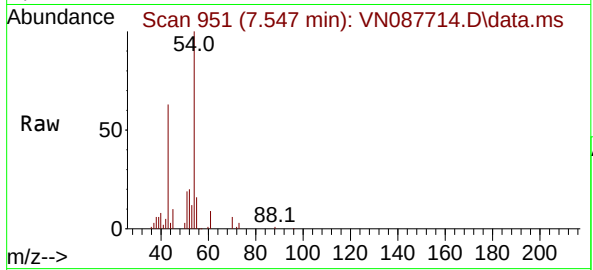
Tgt Ion: 43 Resp: 1025271  
Ion Ratio Lower Upper  
43 100  
86 8.5 7.3 10.9





#43  
Ethyl Acetate  
Concen: 20.443 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

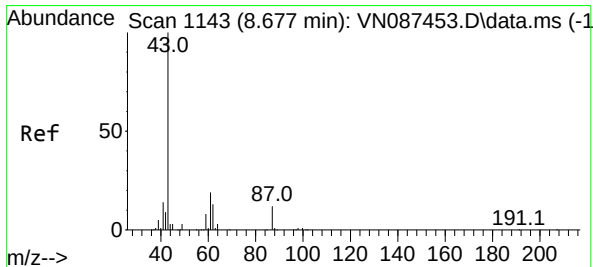
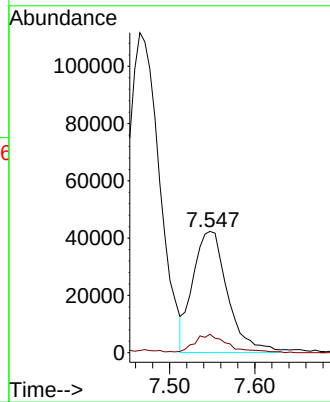
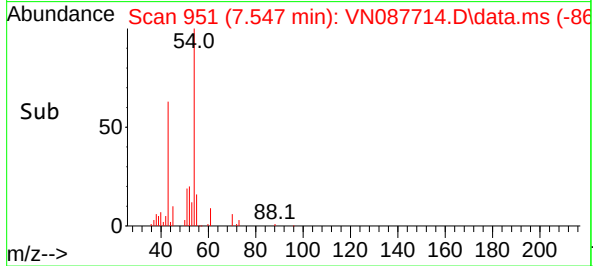
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 43 Resp: 11957  
Ion Ratio Lower Upper  
43 100  
45 11.5 11.1 16.7

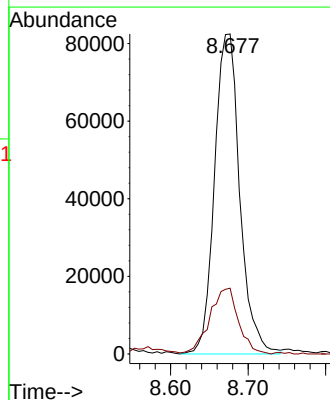
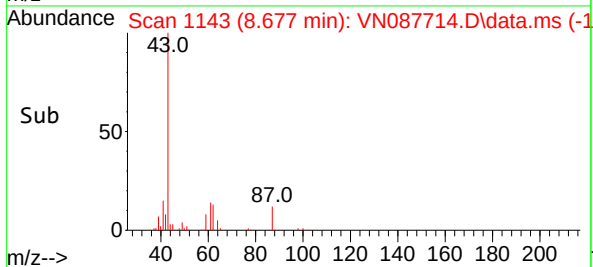
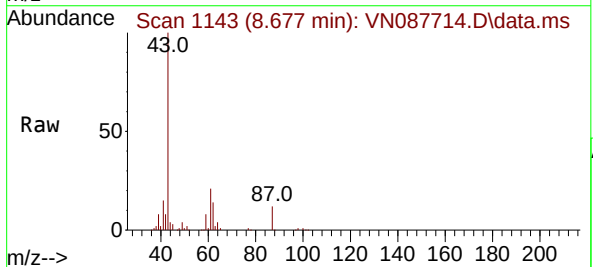
Manual Integrations  
APPROVED

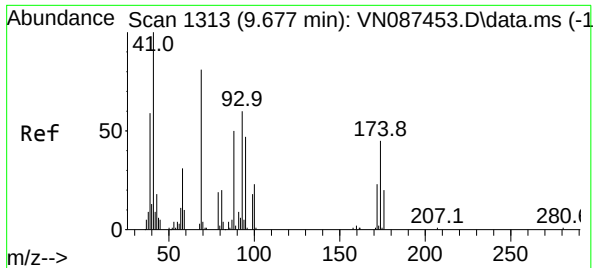
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#44  
Isopropyl Acetate  
Concen: 18.837 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

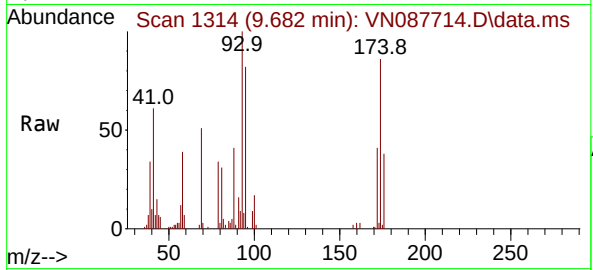
Tgt Ion: 43 Resp: 186772  
Ion Ratio Lower Upper  
43 100  
61 23.4 18.6 28.0





#45  
1,4-Dioxane  
Concen: 321.735 ug/l  
RT: 9.682 min Scan# 1314  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

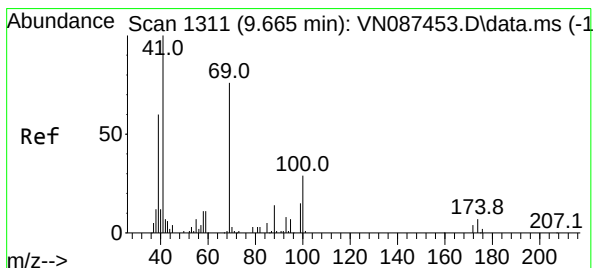
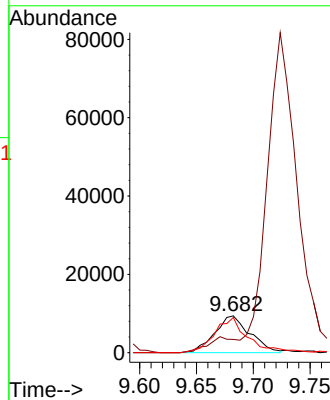
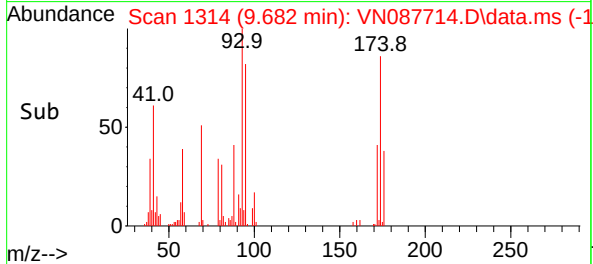
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



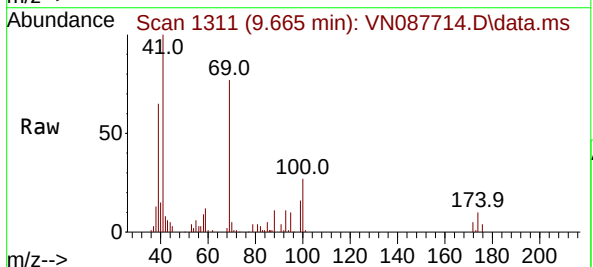
Tgt Ion: 88 Resp: 20330  
Ion Ratio Lower Upper  
88 100  
43 36.7 24.1 36.1  
58 83.4 57.2 85.8

Manual Integrations  
APPROVED

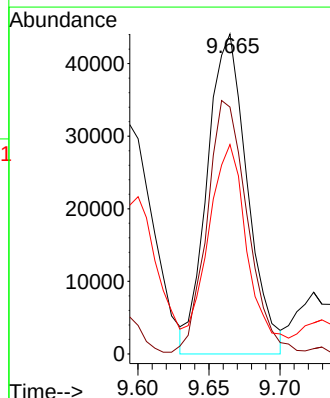
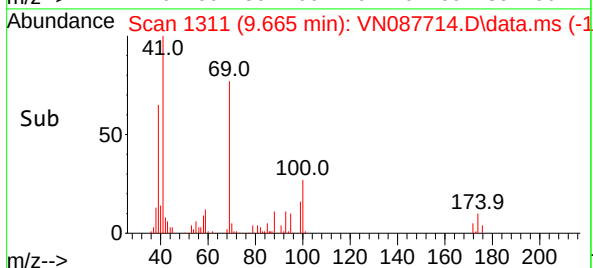
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



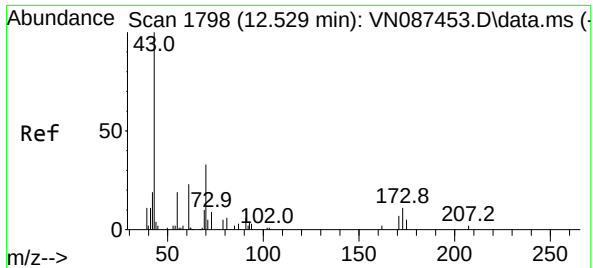
#46  
Methyl methacrylate  
Concen: 18.523 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



Tgt Ion: 41 Resp: 86691  
Ion Ratio Lower Upper  
41 100  
69 80.6 37.1 111.5  
39 63.8 30.7 92.1







#47

n-amy1 Acetate

Concen: 19.454 ug/l m

RT: 12.559 min Scan# 1

Delta R.T. 0.029 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 10655

Ion Ratio Lower Upper

43 100

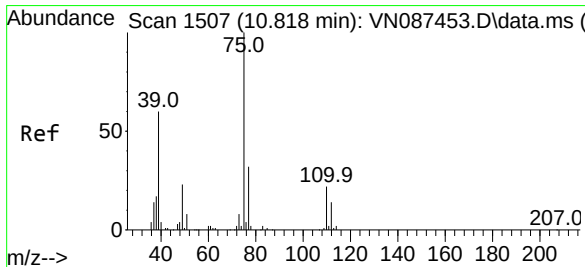
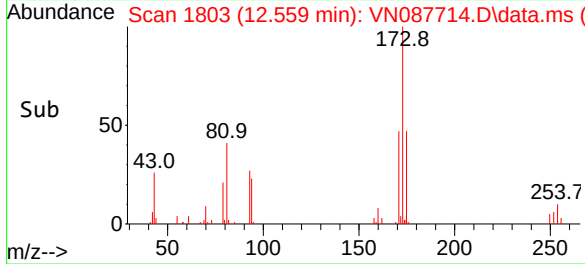
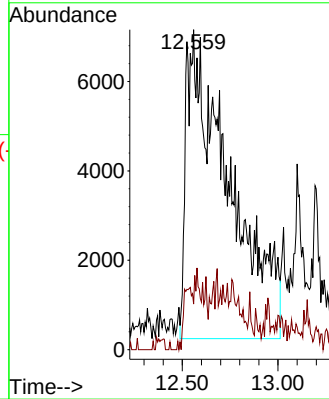
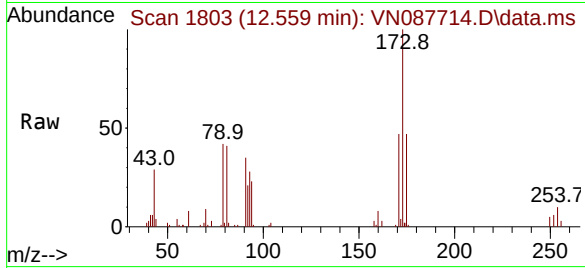
55 1.3 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 19.505 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087714.D

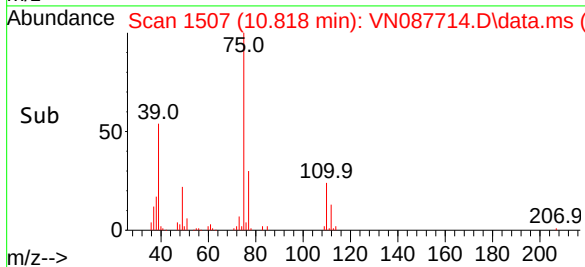
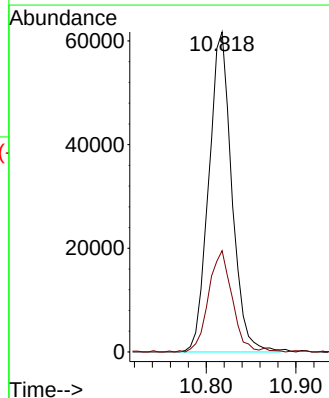
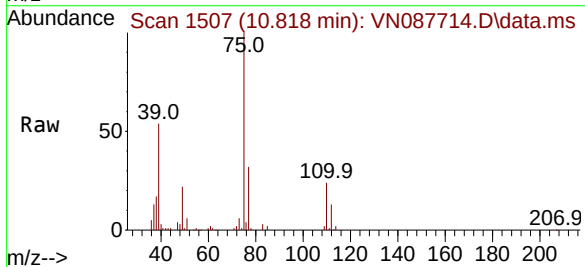
Acq: 04 Sep 2025 10:54

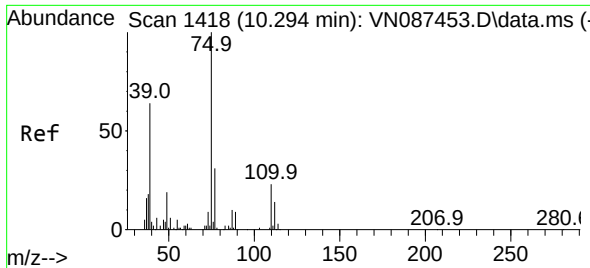
Tgt Ion: 75 Resp: 109981

Ion Ratio Lower Upper

75 100

77 31.3 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 20.087 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. -0.006 min

Lab File: VN087714.D

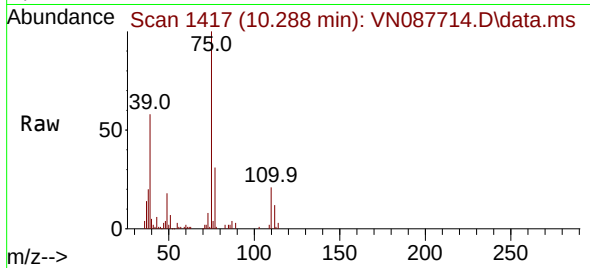
Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020



Tgt Ion: 75 Resp: 113989

Ion Ratio Lower Upper

75 100

77 31.4 24.6 36.8

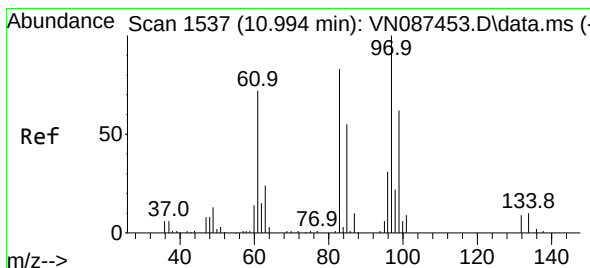
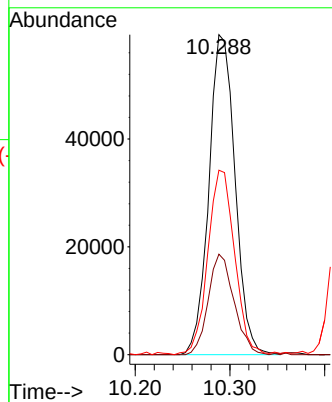
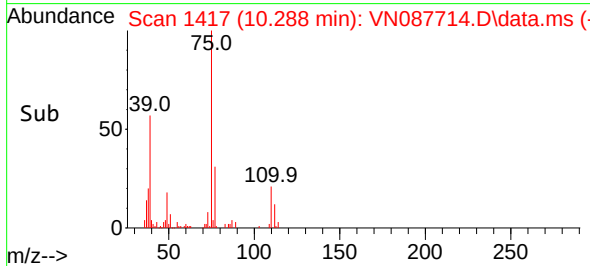
39 57.2 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 22.082 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 69590

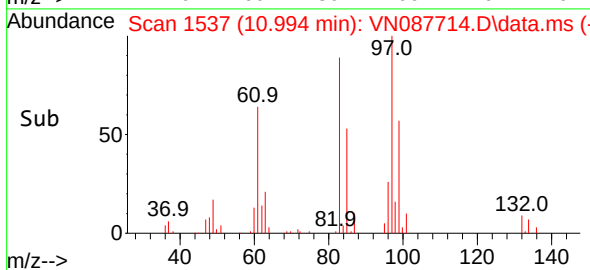
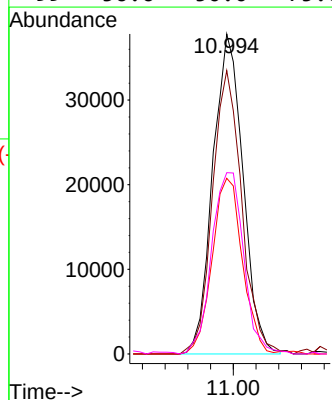
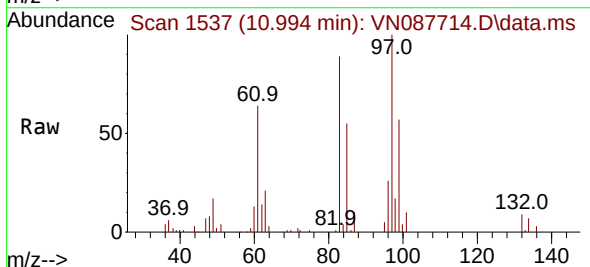
Ion Ratio Lower Upper

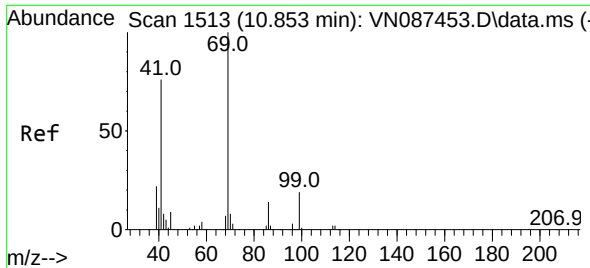
97 100

83 88.6 66.2 99.2

85 54.9 43.9 65.9

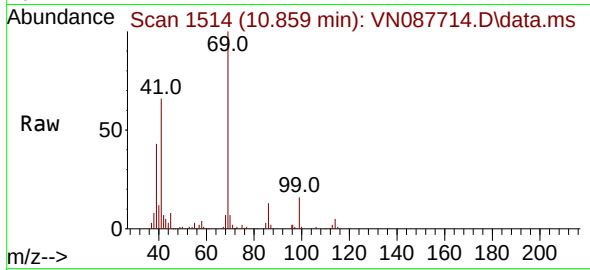
99 56.6 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 18.444 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

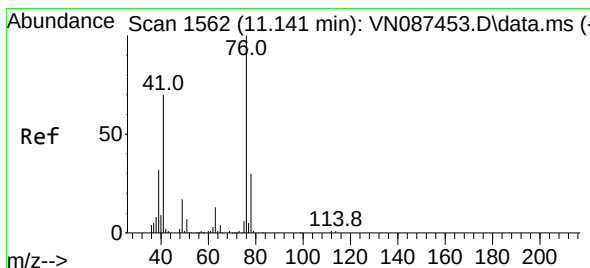
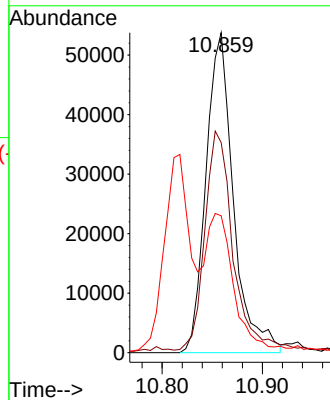
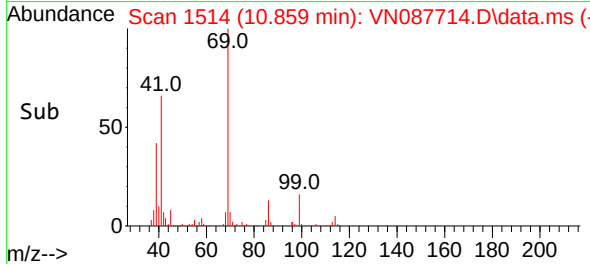
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 69 Resp: 102364  
Ion Ratio Lower Upper  
69 100  
41 64.6 38.0 114.1  
39 40.8 23.2 69.5

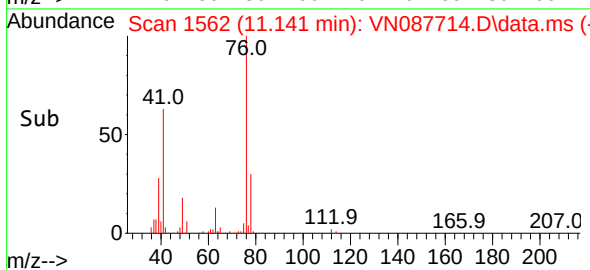
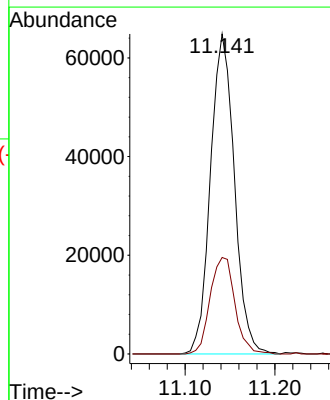
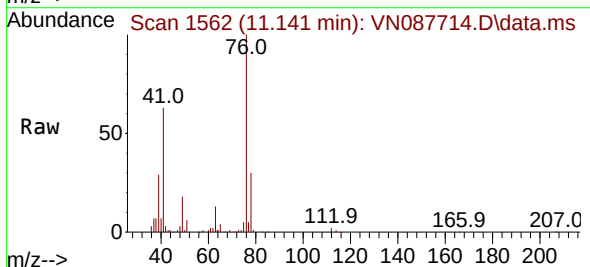
Manual Integrations  
APPROVED

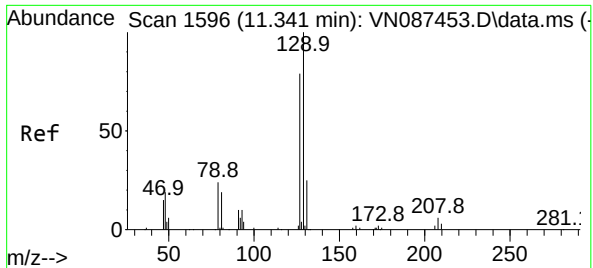
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 21.132 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

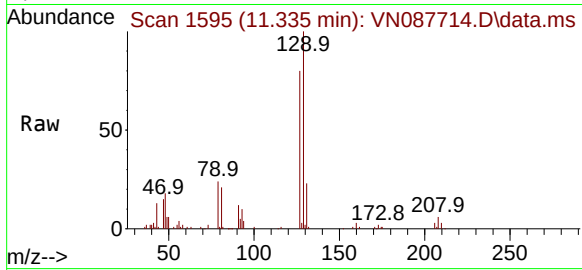
Tgt Ion: 76 Resp: 119980  
Ion Ratio Lower Upper  
76 100  
78 31.2 0.0 63.0





#53  
Dibromochloromethane  
Concen: 20.469 ug/l  
RT: 11.335 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

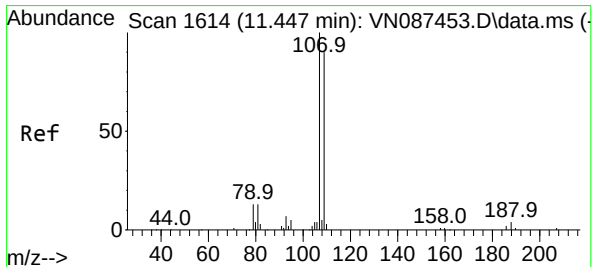
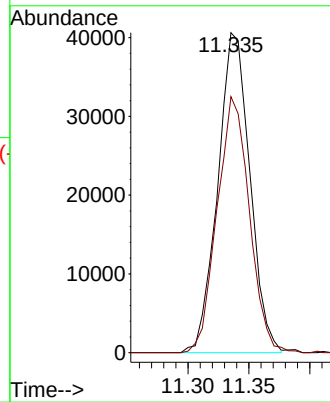
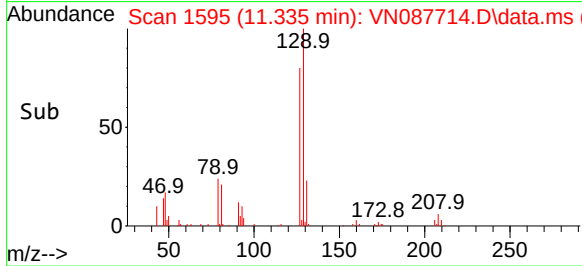
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



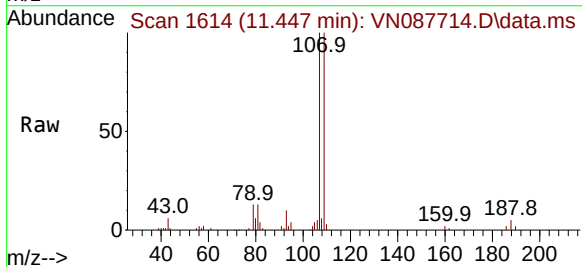
Tgt Ion:129 Resp: 74495  
Ion Ratio Lower Upper  
129 100  
127 80.3 39.1 117.3

Manual Integrations  
APPROVED

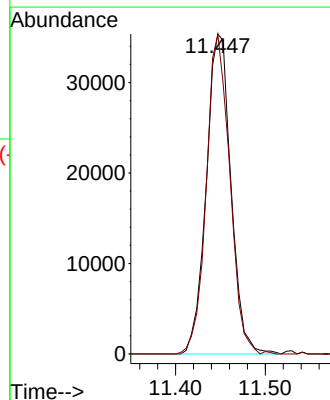
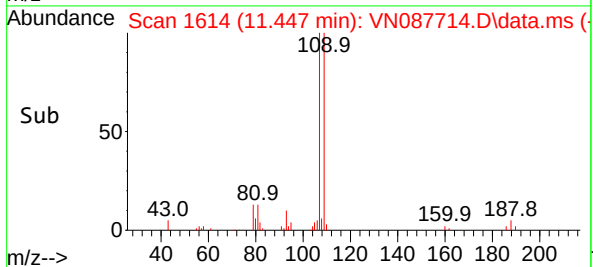
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

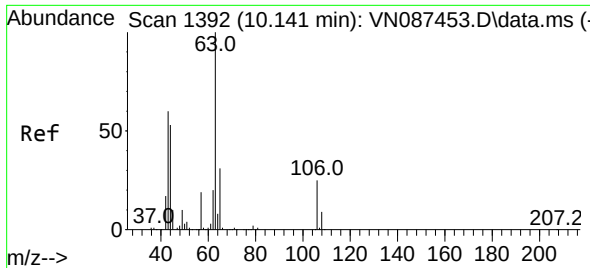


#54  
1,2-Dibromoethane  
Concen: 20.155 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



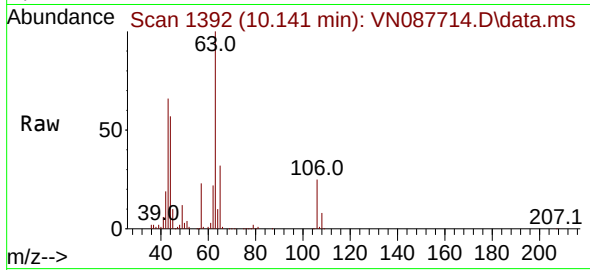
Tgt Ion:107 Resp: 67426  
Ion Ratio Lower Upper  
107 100  
109 95.0 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 92.933 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

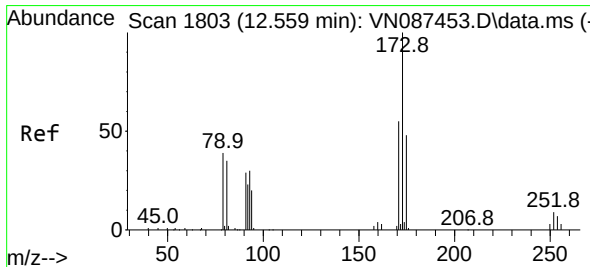
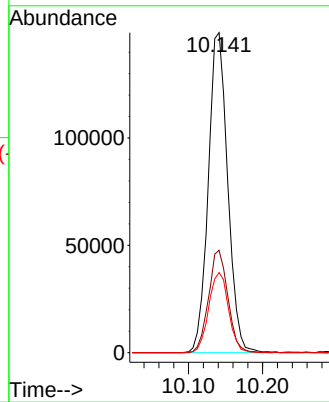
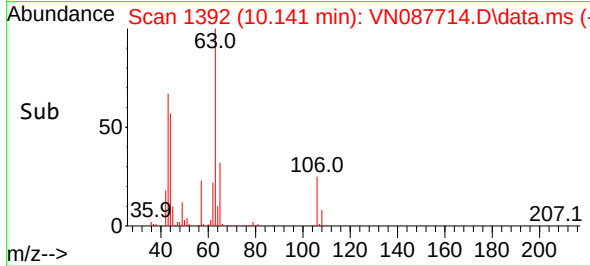
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 63 Resp: 27152  
Ion Ratio Lower Upper  
63 100  
65 31.8 25.7 38.5  
106 25.5 20.7 31.1

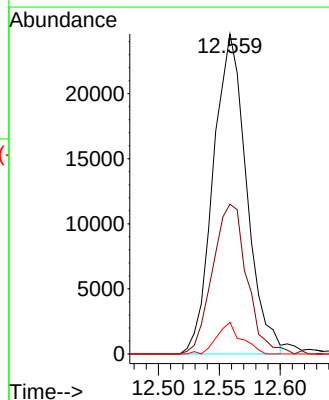
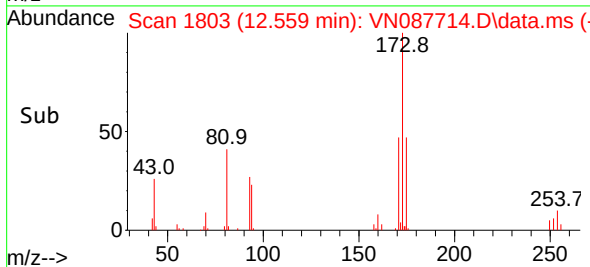
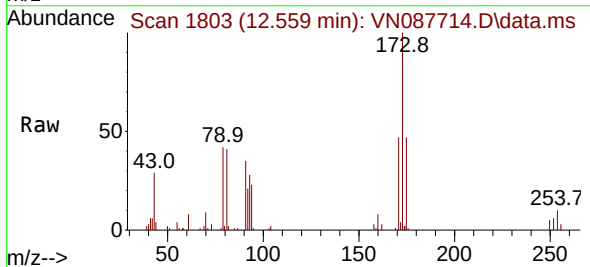
Manual Integrations  
APPROVED

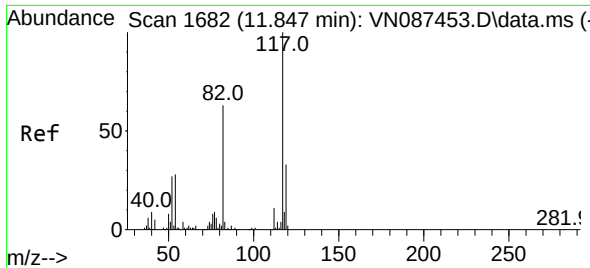
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 19.424 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

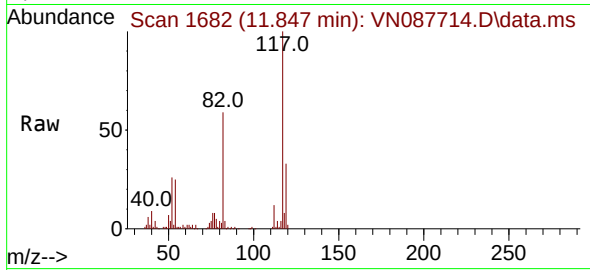
Tgt Ion:173 Resp: 46759  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.8 58.2  
254 7.1 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

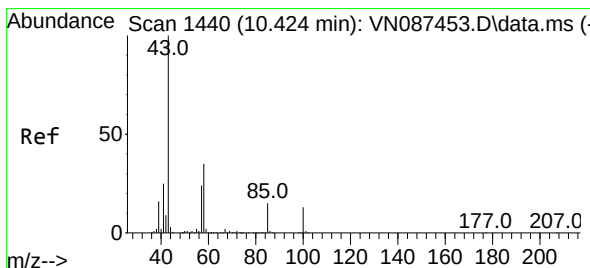
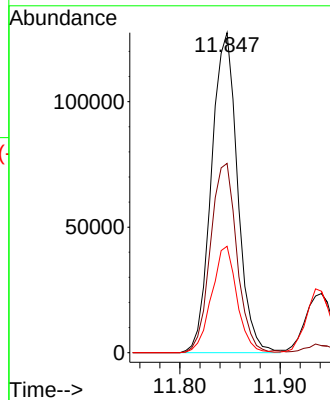
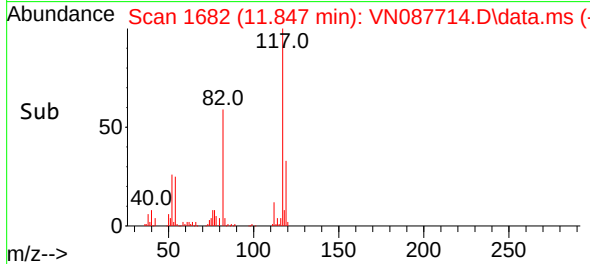
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 117 Resp: 230082  
Ion Ratio Lower Upper  
117 100  
82 59.9 49.2 73.8  
119 32.3 25.7 38.5

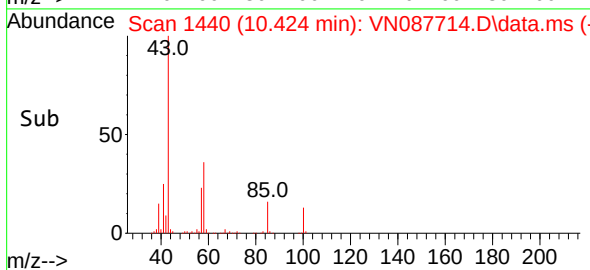
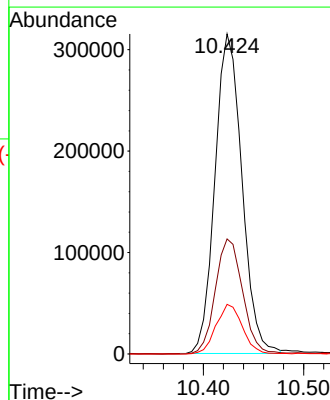
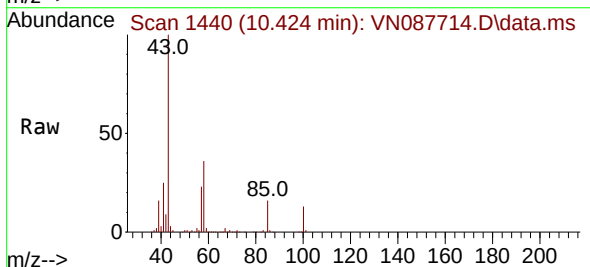
Manual Integrations  
APPROVED

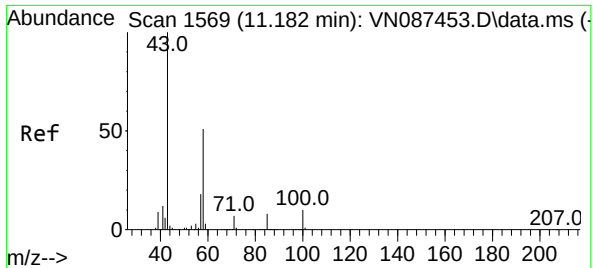
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 99.321 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

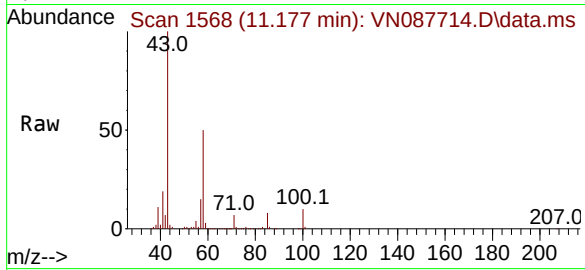
Tgt Ion: 43 Resp: 587862  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 15.3 12.7 19.1





#59  
2-Hexanone  
Concen: 95.594 ug/l  
RT: 11.177 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

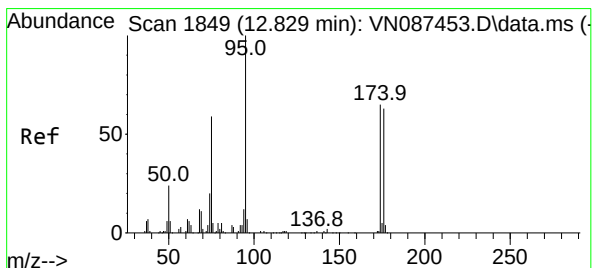
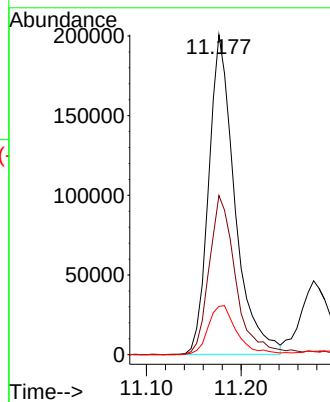
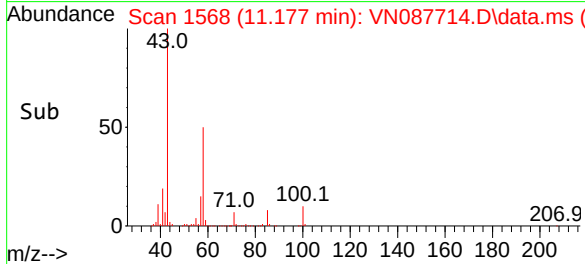
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 43 Resp: 384434  
Ion Ratio Lower Upper  
43 100  
58 50.5 41.0 61.6  
57 16.8 14.6 21.8

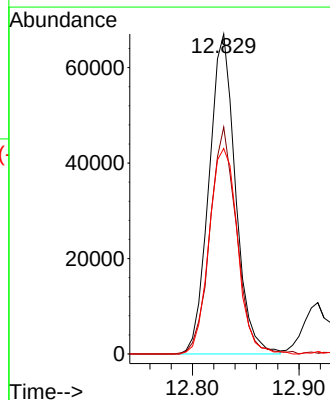
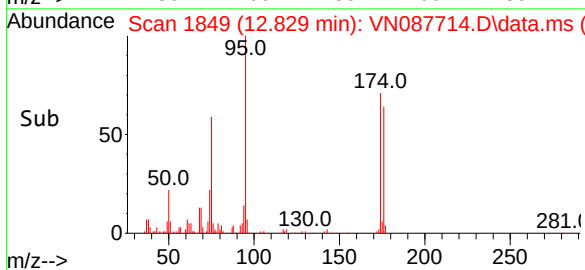
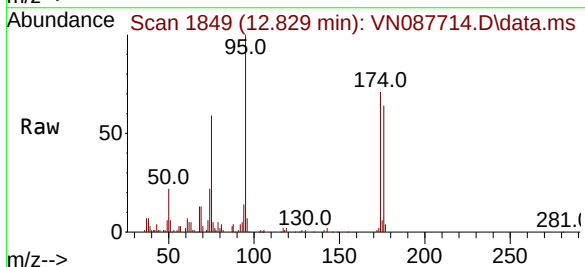
Manual Integrations  
APPROVED

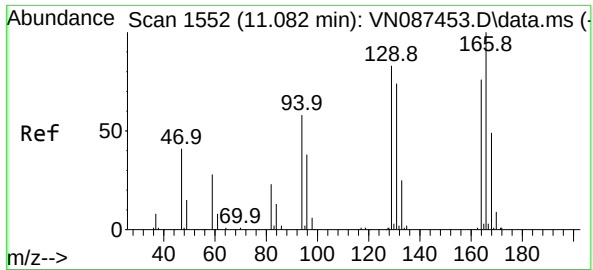
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#60  
4-Bromofluorobenzene  
Concen: 29.288 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

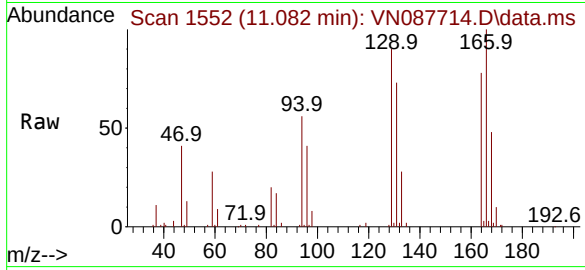
Tgt Ion: 95 Resp: 115967  
Ion Ratio Lower Upper  
95 100  
174 71.1 52.3 78.5  
176 68.9 49.8 74.8





#61  
Tetrachloroethene  
Concen: 21.211 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

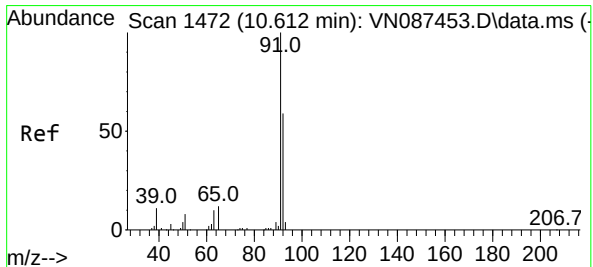
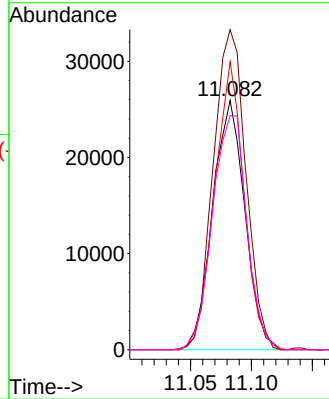
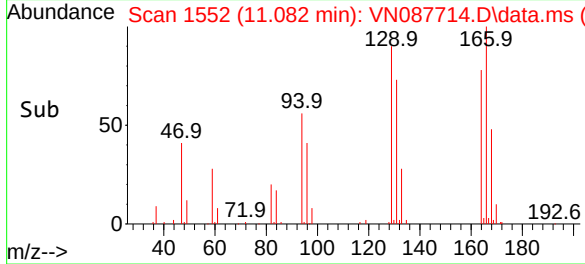
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:164 Resp: 47549  
Ion Ratio Lower Upper  
164 100  
166 128.4 105.4 158.0  
129 115.6 87.7 131.5  
131 93.9 77.7 116.5

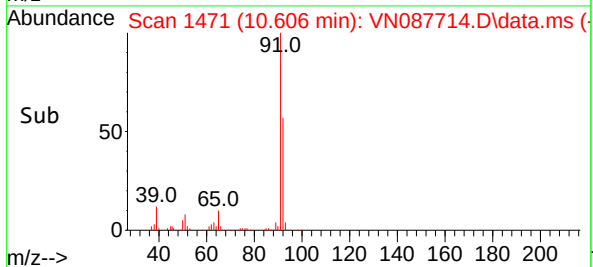
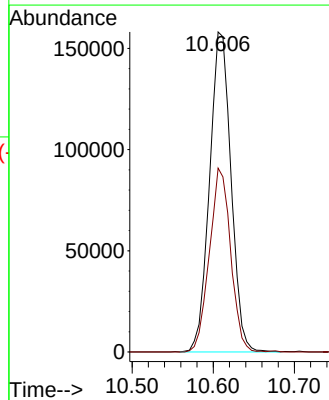
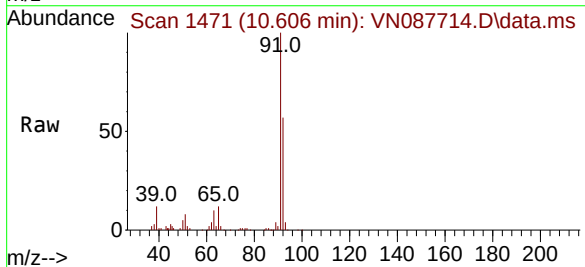
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

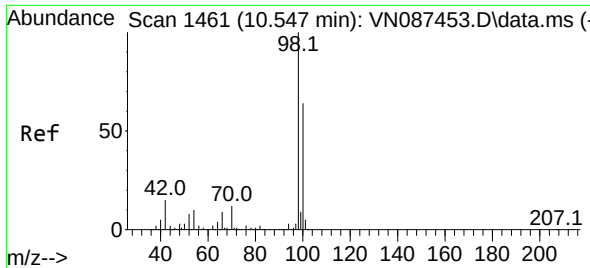


#62  
Toluene  
Concen: 20.446 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 290343  
Ion Ratio Lower Upper  
91 100  
92 56.8 45.8 68.6

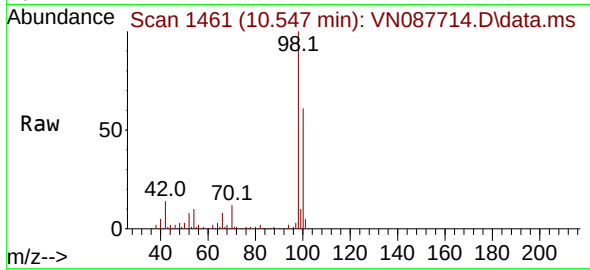






#63  
Toluene-d8  
Concen: 30.412 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

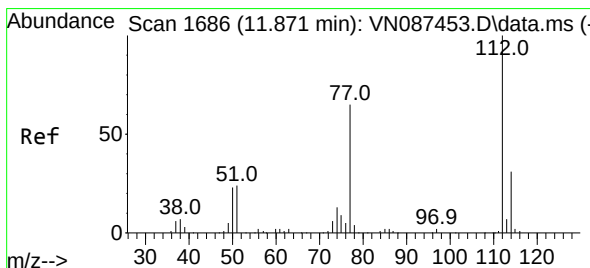
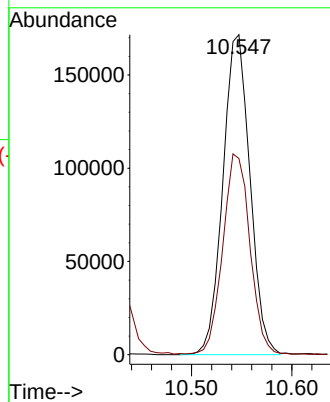
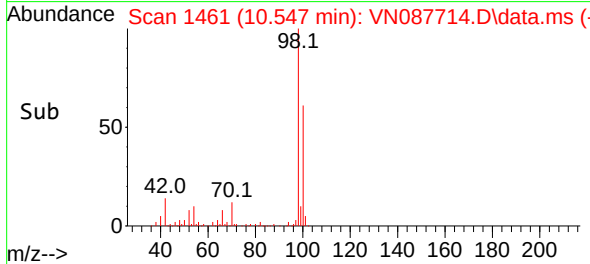
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 98 Resp: 321960  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.5 75.7

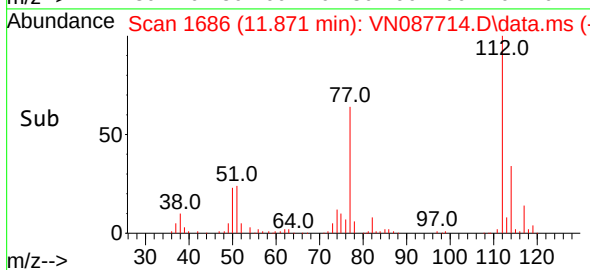
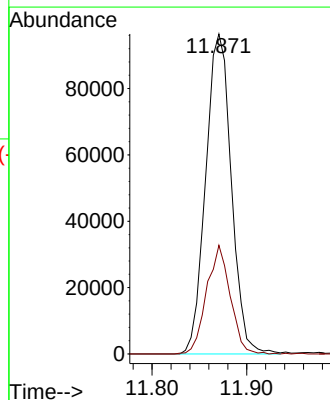
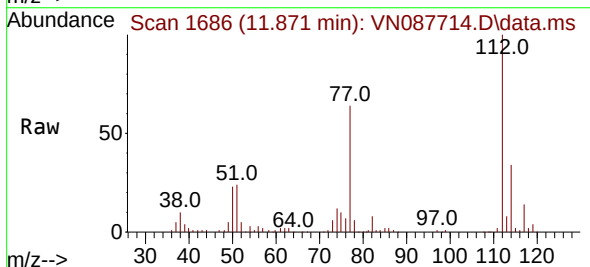
Manual Integrations  
APPROVED

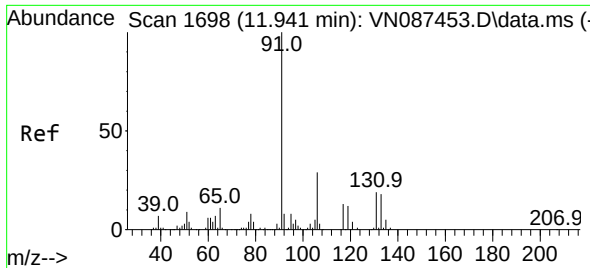
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#64  
Chlorobenzene  
Concen: 20.801 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

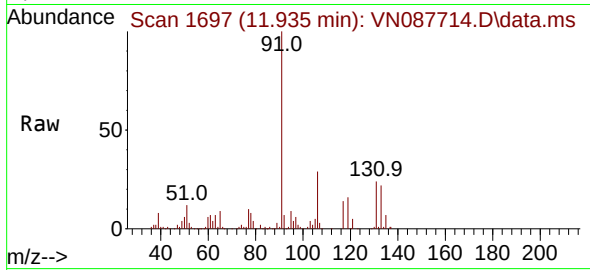
Tgt Ion:112 Resp: 181508  
Ion Ratio Lower Upper  
112 100  
114 33.9 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.267 ug/l  
RT: 11.935 min Scan# 1697  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

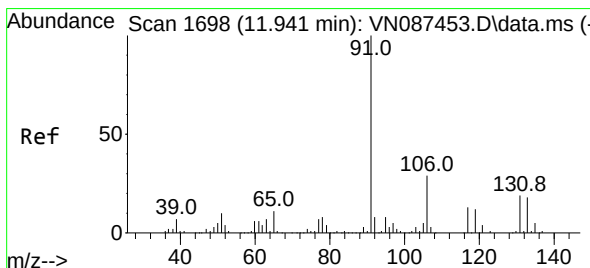
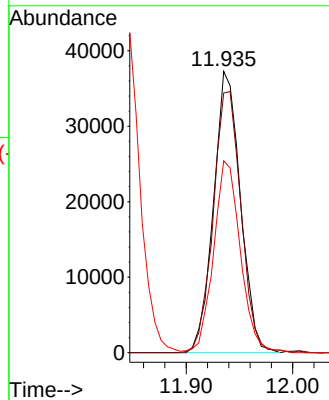
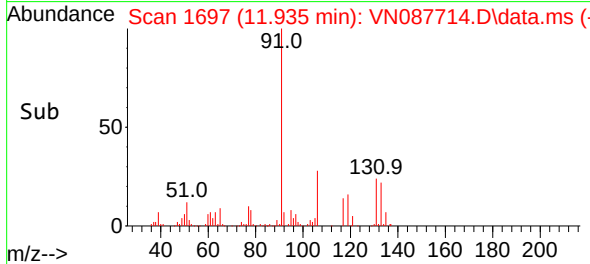
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:131 Resp: 65240  
Ion Ratio Lower Upper  
131 100  
133 96.0 0.0 189.8  
119 68.1 0.0 133.2

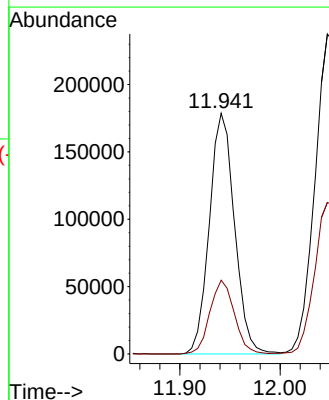
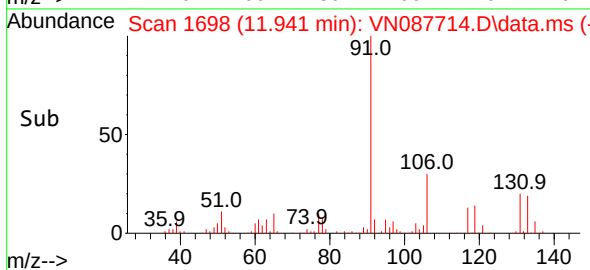
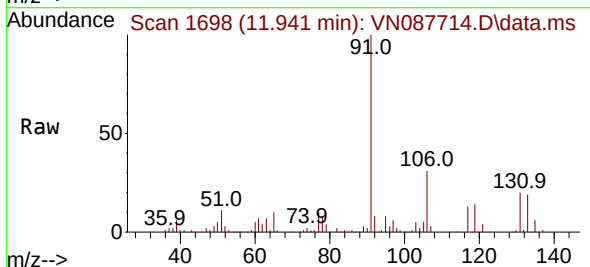
Manual Integrations  
APPROVED

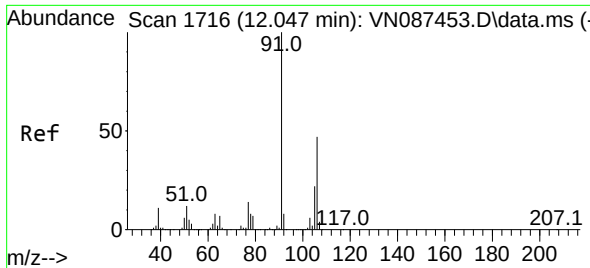
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66  
Ethyl Benzene  
Concen: 19.733 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

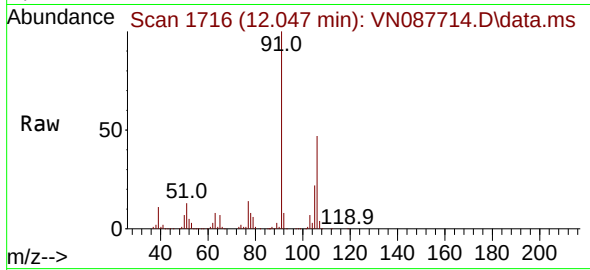
Tgt Ion: 91 Resp: 312337  
Ion Ratio Lower Upper  
91 100  
106 30.7 22.9 34.3





#67  
m/p-Xylenes  
Concen: 40.313 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

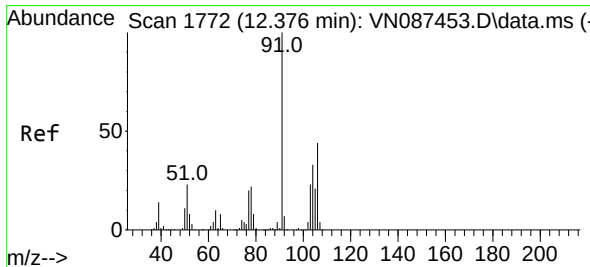
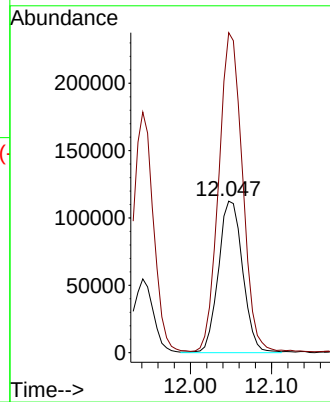
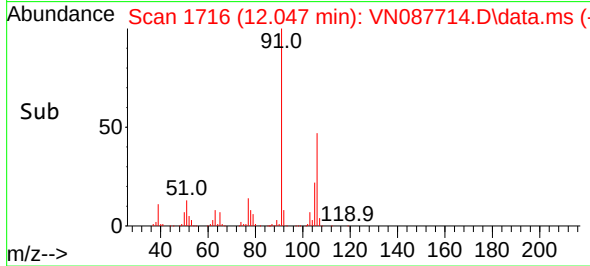
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:106 Resp: 23421  
Ion Ratio Lower Upper  
106 100  
91 204.3 174.2 261.2

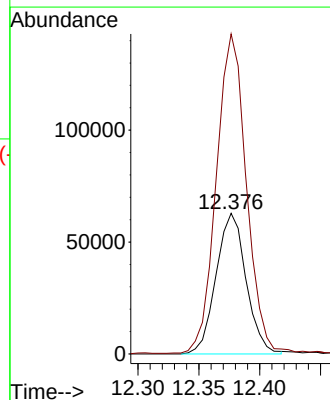
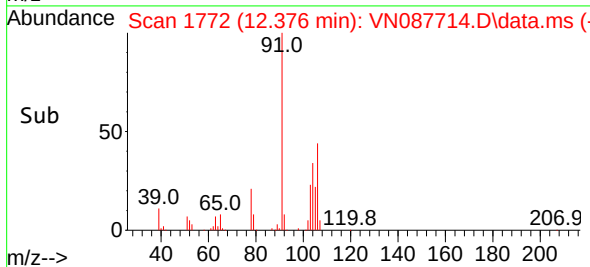
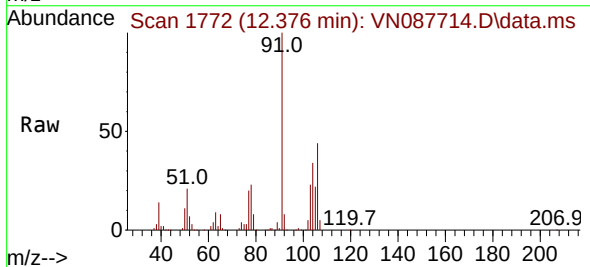
Manual Integrations  
APPROVED

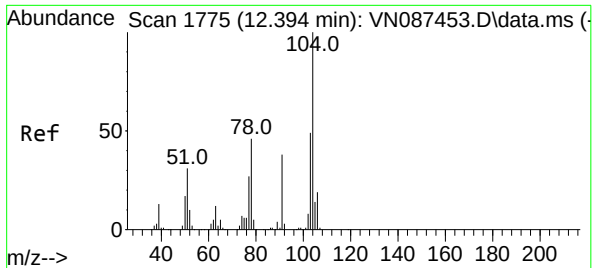
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#68  
o-Xylene  
Concen: 18.876 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

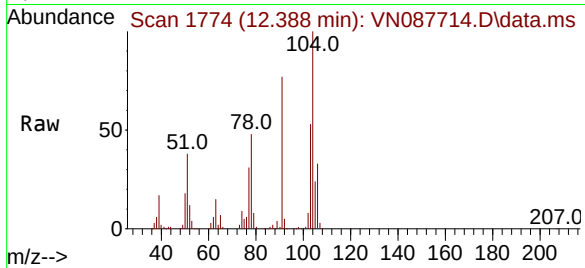
Tgt Ion:106 Resp: 107889  
Ion Ratio Lower Upper  
106 100  
91 225.3 114.5 343.5





#69  
Styrene  
Concen: 19.476 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

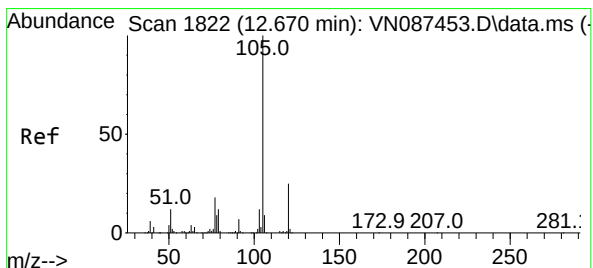
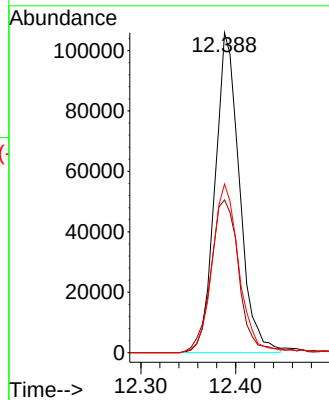
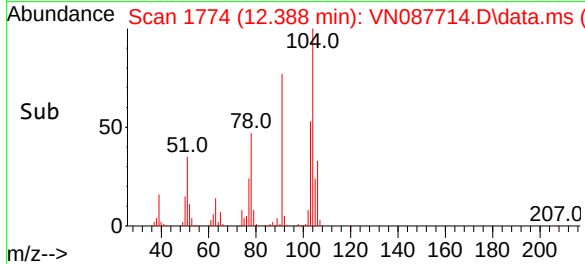
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion:104 Resp: 190079  
Ion Ratio Lower Upper  
104 100  
78 55.5 43.8 65.8  
103 57.1 43.1 64.7

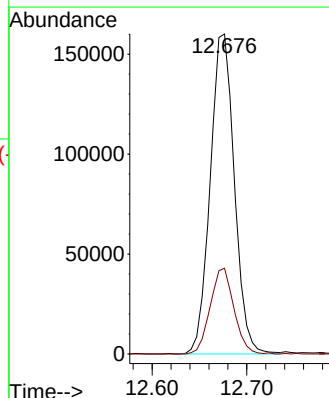
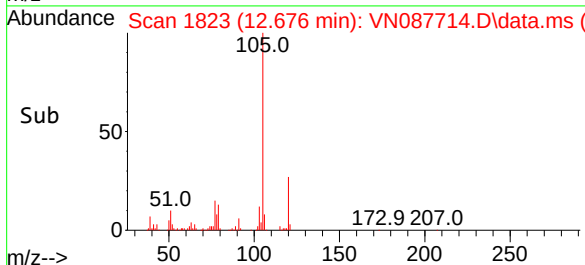
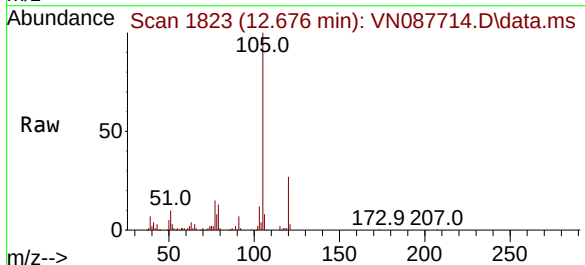
Manual Integrations  
APPROVED

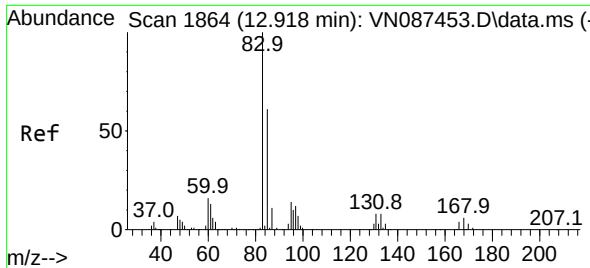
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#70  
Isopropylbenzene  
Concen: 19.568 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

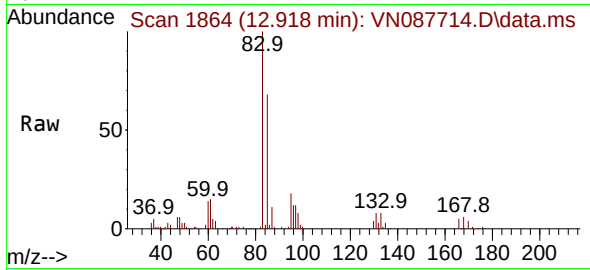
Tgt Ion:105 Resp: 284145  
Ion Ratio Lower Upper  
105 100  
120 26.2 17.5 32.5





#71  
1,1,2-Tetrachloroethane  
Concen: 21.812 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

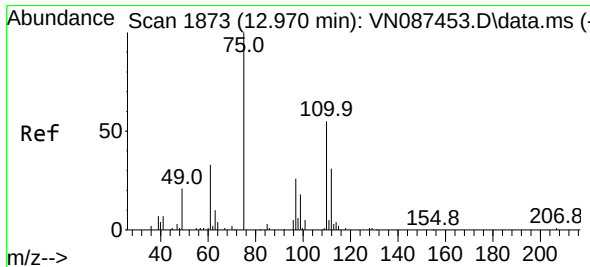
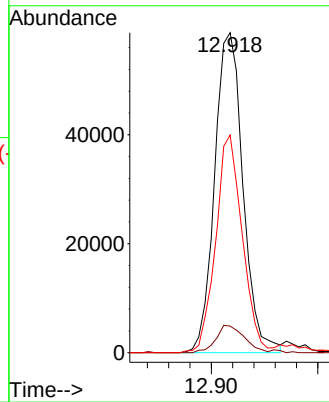
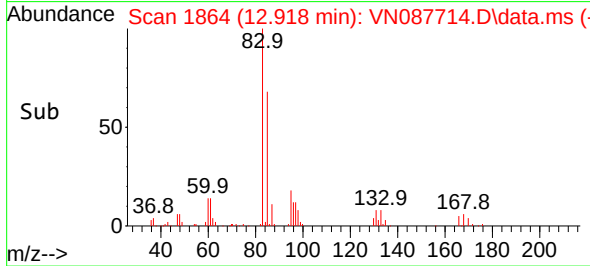
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 83 Resp: 10852  
Ion Ratio Lower Upper  
83 100  
131 8.5 4.8 14.3  
85 63.5 31.7 95.1

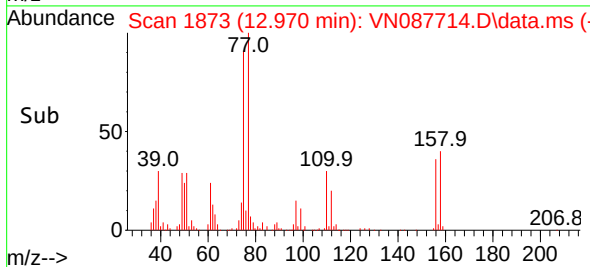
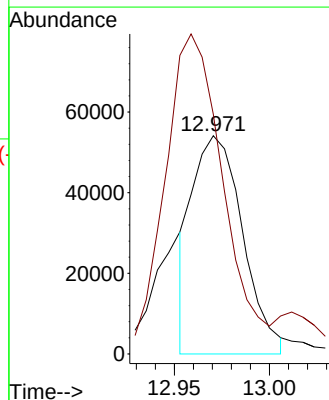
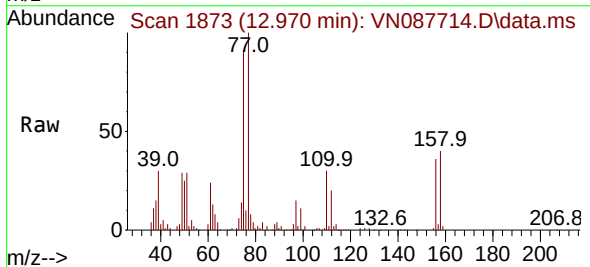
Manual Integrations  
APPROVED

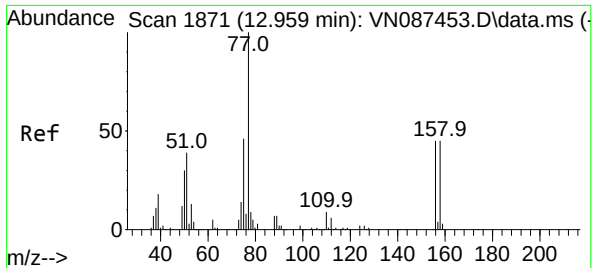
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 21.469 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 99508  
Ion Ratio Lower Upper  
75 100  
77 170.3 0.0 385.0





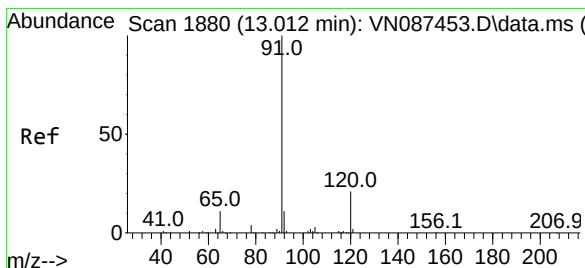
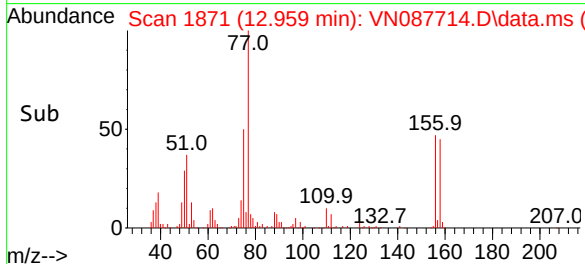
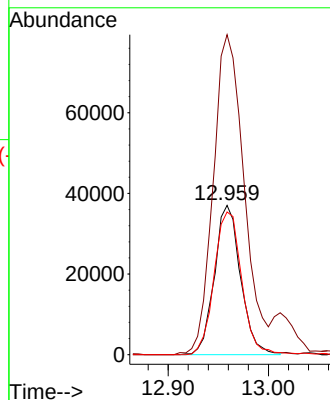
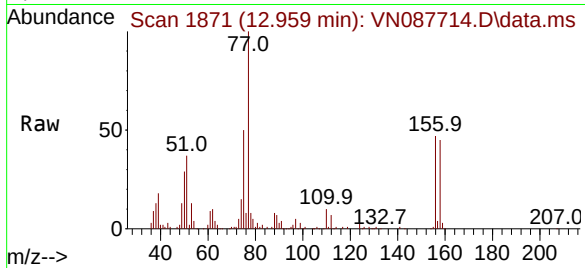
#73  
Bromobenzene  
Concen: 19.958 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:156 Resp: 6718  
Ion Ratio Lower Upper  
156 100  
77 252.2 0.0 506.6  
158 100.6 0.0 193.6

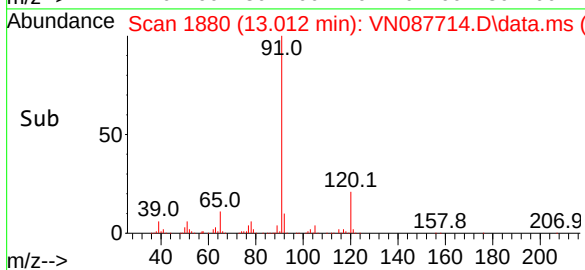
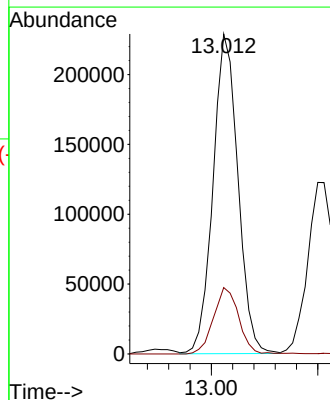
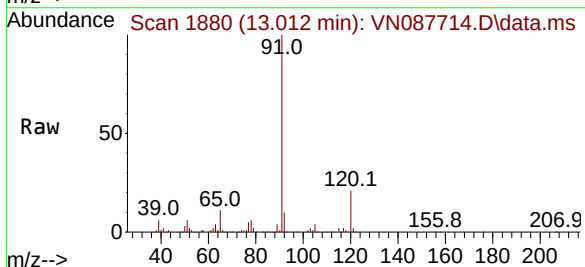
Manual Integrations  
APPROVED

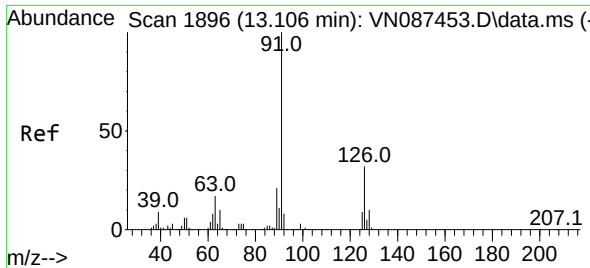
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#74  
n-propylbenzene  
Concen: 20.500 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

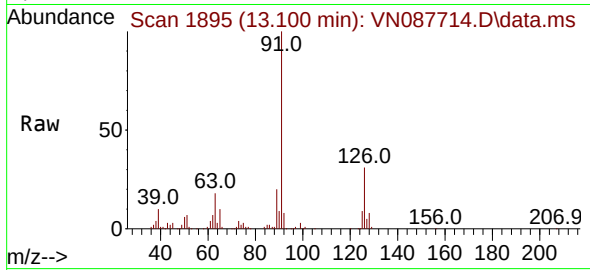
Tgt Ion: 91 Resp: 371779  
Ion Ratio Lower Upper  
91 100  
120 20.7 0.0 41.8





#75  
2-Chlorotoluene  
Concen: 19.495 ug/l  
RT: 13.100 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

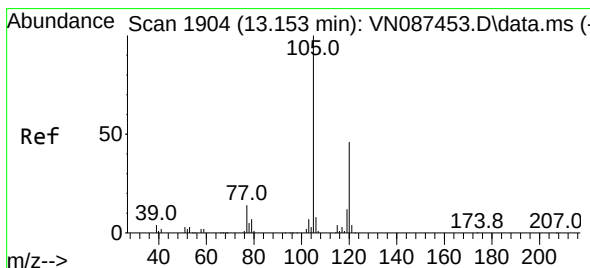
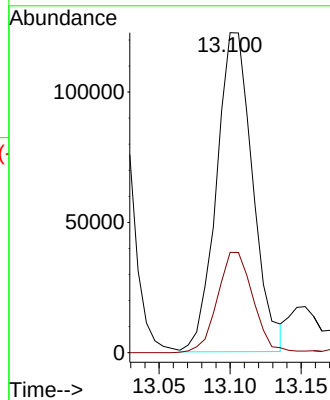
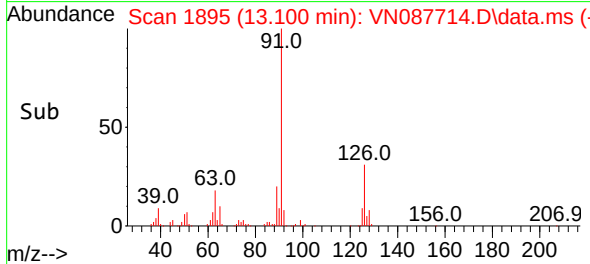
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 91 Resp: 217479  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4

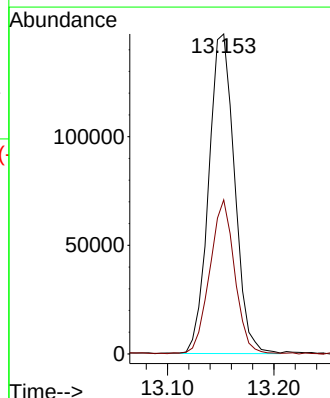
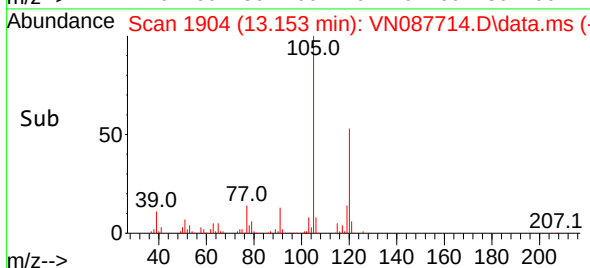
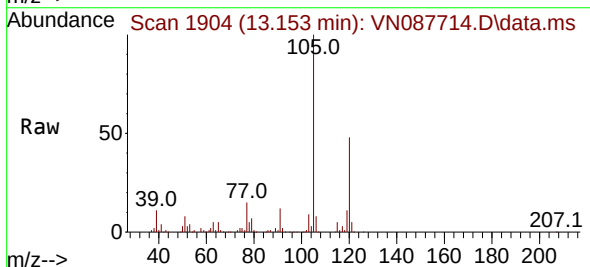
Manual Integrations  
APPROVED

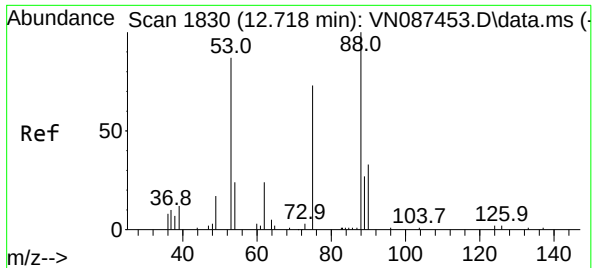
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 19.937 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:105 Resp: 247884  
Ion Ratio Lower Upper  
105 100  
120 46.4 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 17.800 ug/l

RT: 12.712 min Scan# 1830

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 75 Resp: 3123

Ion Ratio Lower Upper

75 100

53 88.6 59.0 176.8

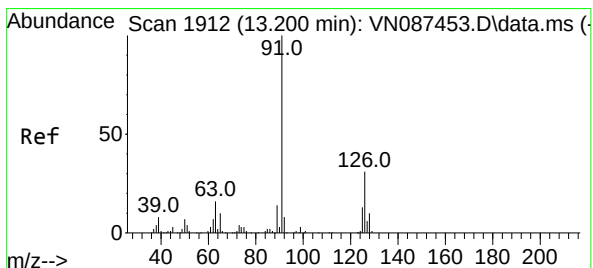
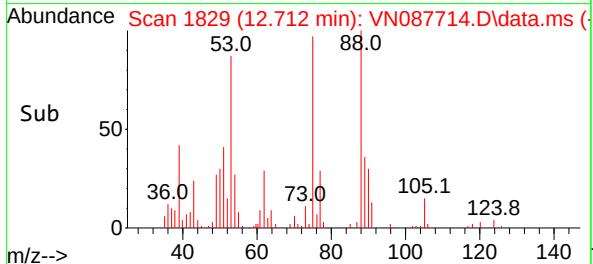
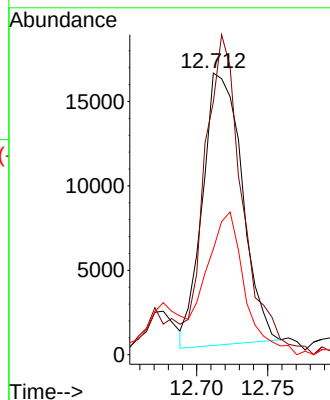
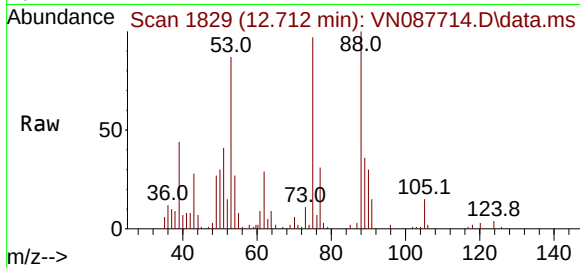
89 36.3 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#78

4-Chlorotoluene

Concen: 20.115 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. 0.000 min

Lab File: VN087714.D

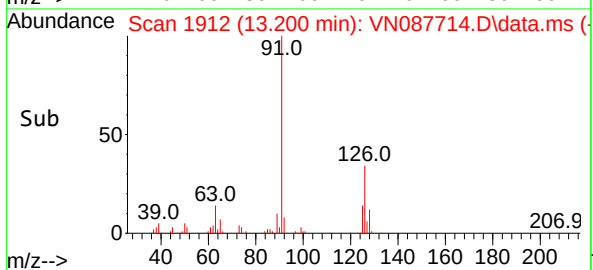
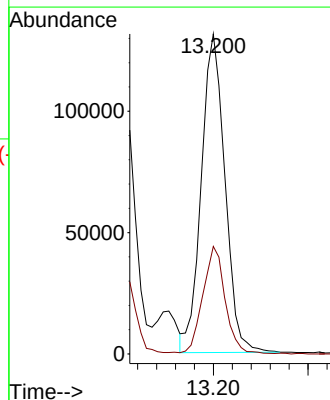
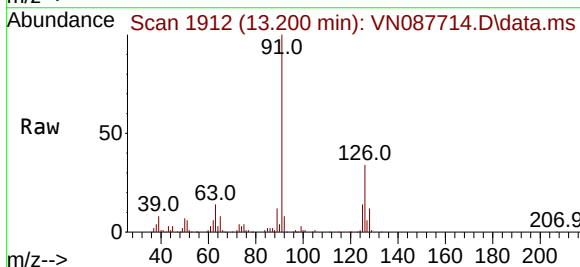
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 227394

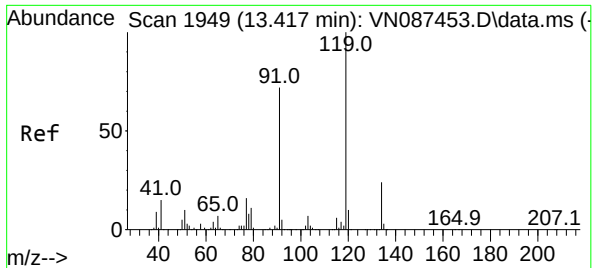
Ion Ratio Lower Upper

91 100

126 31.7 0.0 63.2

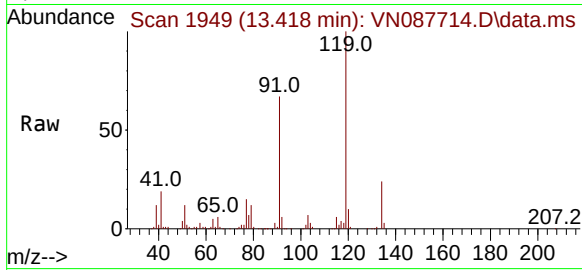






#79  
tert-butylbenzene  
Concen: 19.444 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

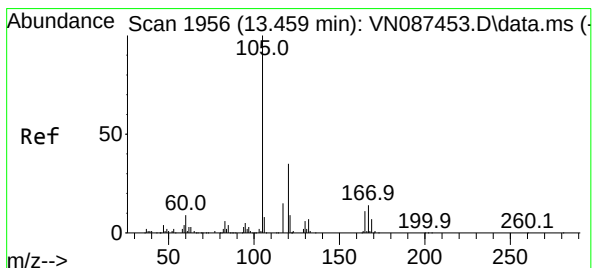
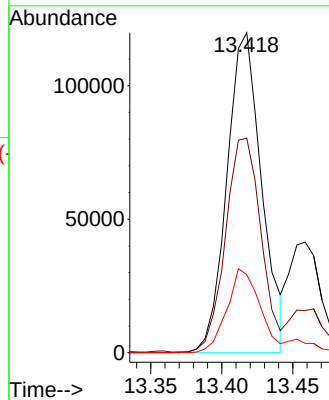
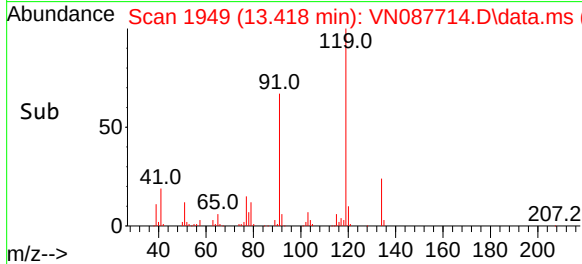
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



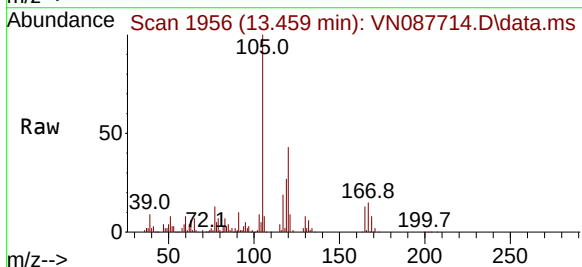
Tgt Ion:119 Resp: 203820  
Ion Ratio Lower Upper  
119 100  
91 68.1 0.0 141.6  
134 24.8 0.0 45.6

Manual Integrations  
APPROVED

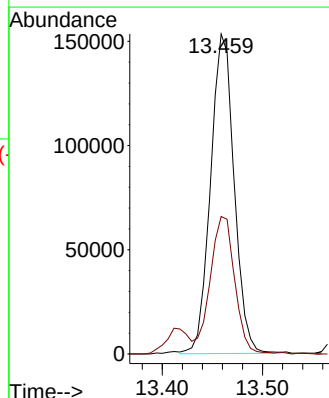
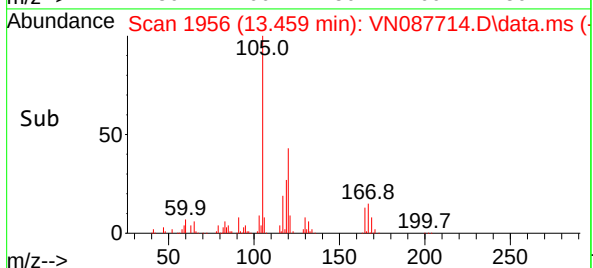
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

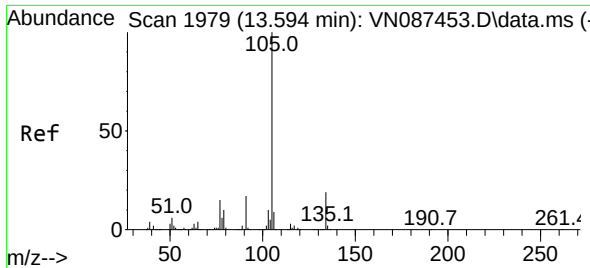


#80  
1,2,4-Trimethylbenzene  
Concen: 20.173 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



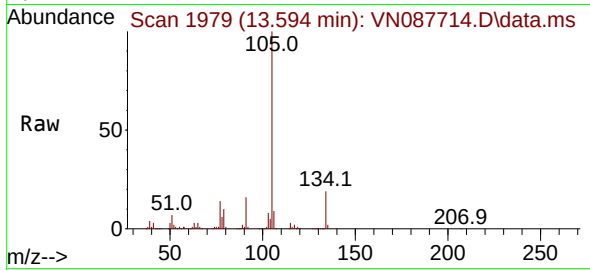
Tgt Ion:105 Resp: 250626  
Ion Ratio Lower Upper  
105 100  
120 44.8 0.0 87.2





#81  
 sec-Butylbenzene  
 Concen: 20.195 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

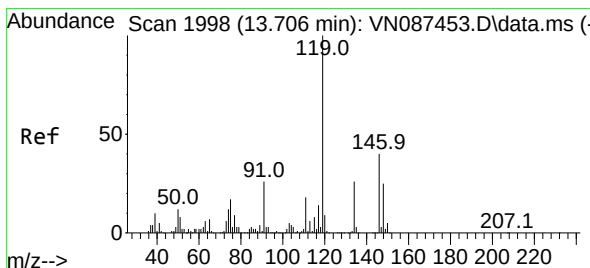
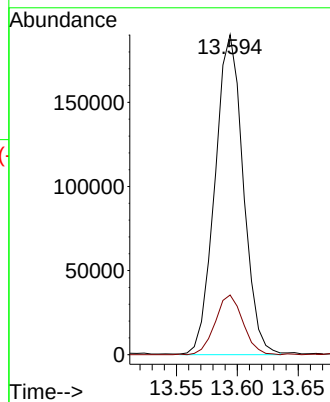
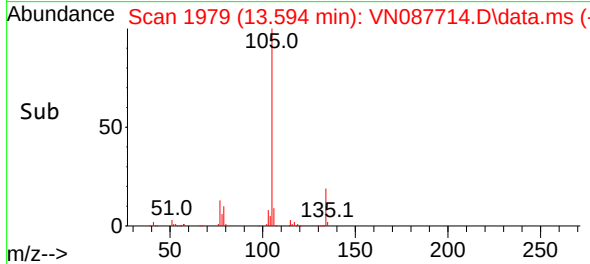
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020



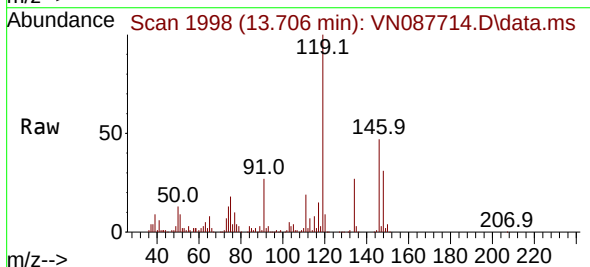
Tgt Ion:105 Resp: 308192  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 0.0 37.6

Manual Integrations  
 APPROVED

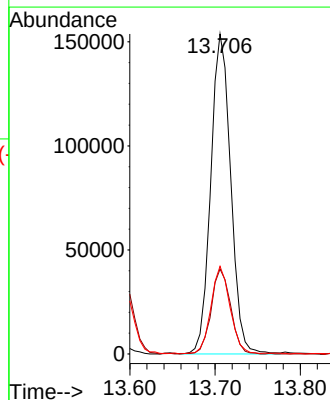
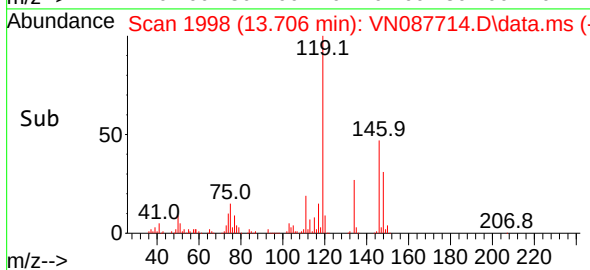
Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

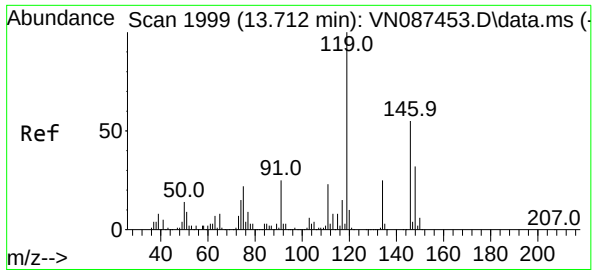


#82  
 p-Isopropyltoluene  
 Concen: 19.739 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54



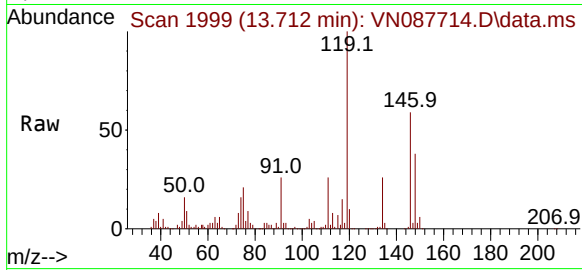
Tgt Ion:119 Resp: 250110  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 0.0 51.4  
 91 26.3 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 21.371 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

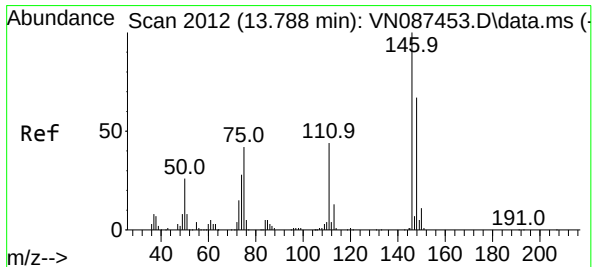
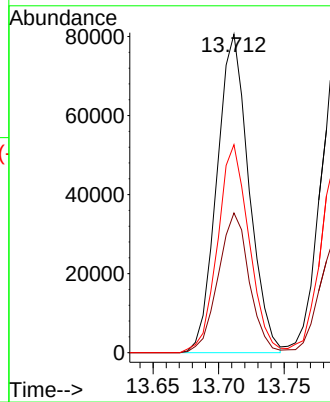
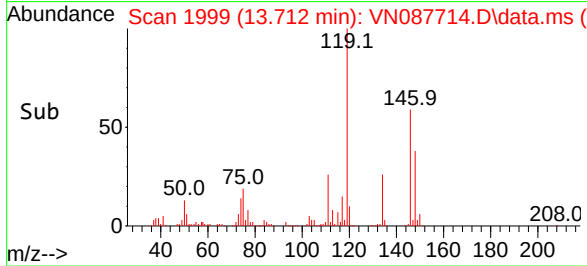
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



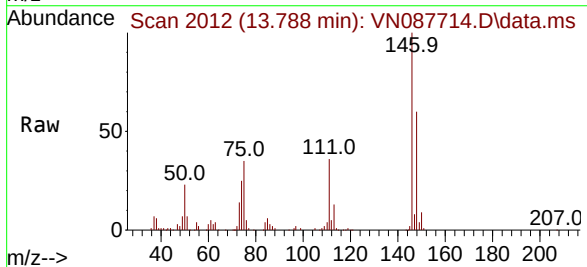
Tgt Ion:146 Resp: 136998  
Ion Ratio Lower Upper  
146 100  
111 42.7 21.9 65.5  
148 64.2 31.3 93.9

Manual Integrations  
APPROVED

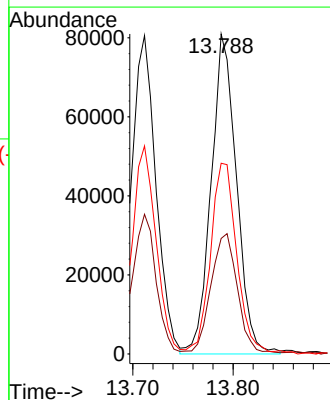
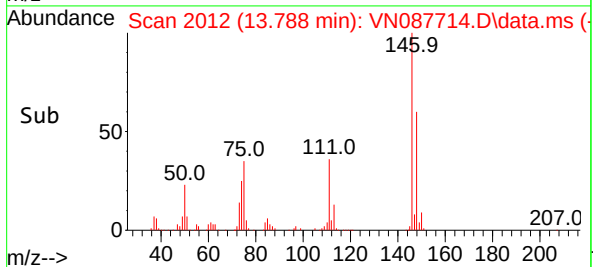
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

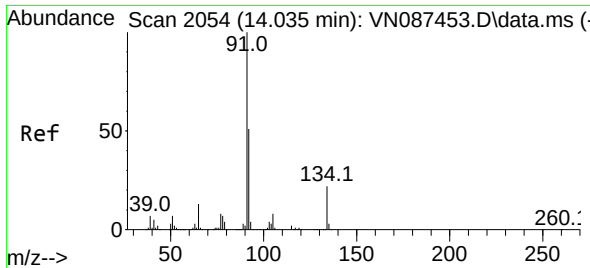


#84  
1,4-Dichlorobenzene  
Concen: 21.893 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



Tgt Ion:146 Resp: 142283  
Ion Ratio Lower Upper  
146 100  
111 39.5 21.1 63.1  
148 61.7 31.4 94.3





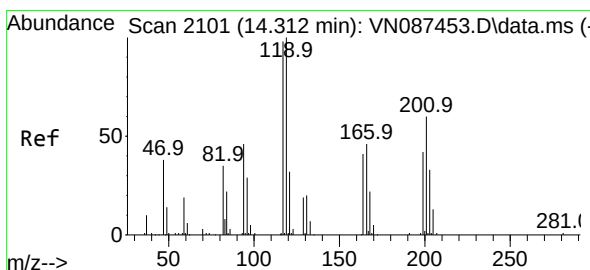
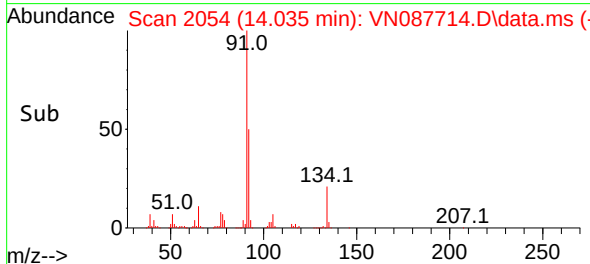
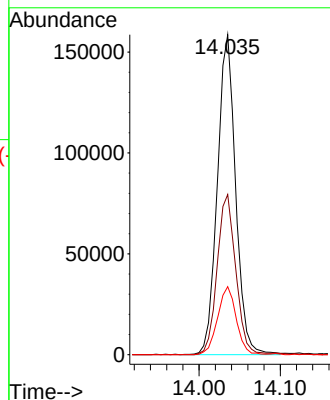
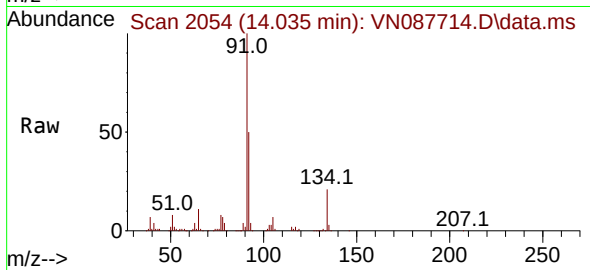
#85  
n-Butylbenzene  
Concen: 20.078 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 91 Resp: 24891  
Ion Ratio Lower Upper  
91 100  
92 50.7 0.0 106.6  
134 21.7 0.0 44.4

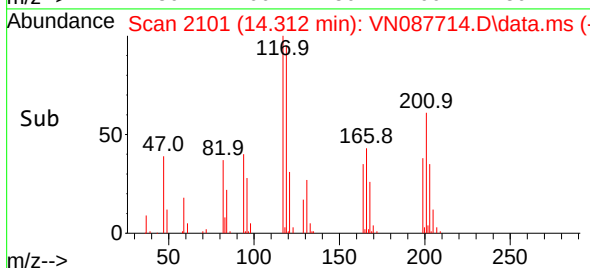
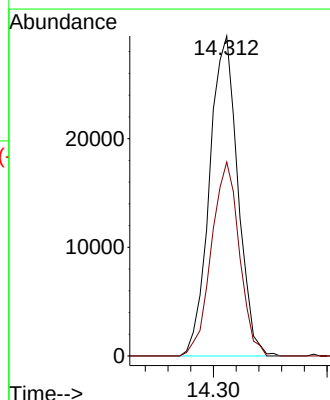
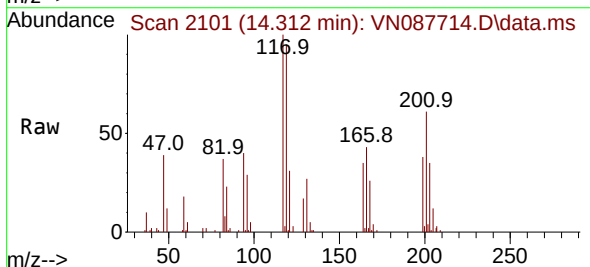
Manual Integrations  
APPROVED

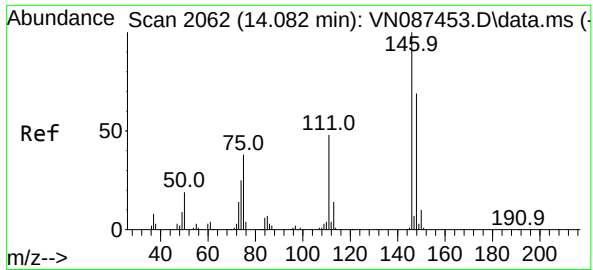
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86  
Hexachloroethane  
Concen: 20.565 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:117 Resp: 50886  
Ion Ratio Lower Upper  
117 100  
201 59.9 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 21.300 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

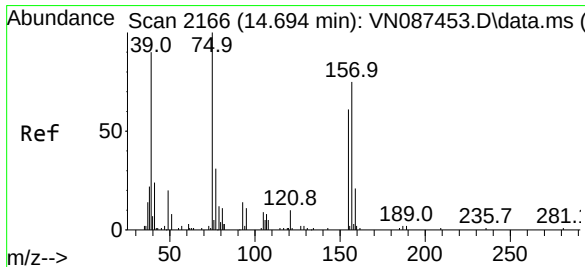
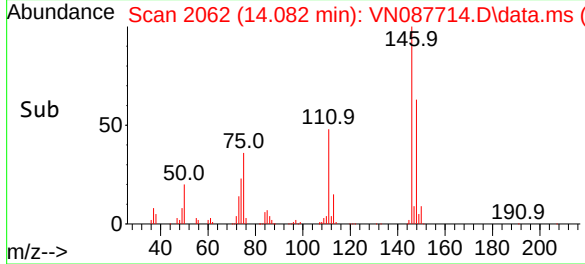
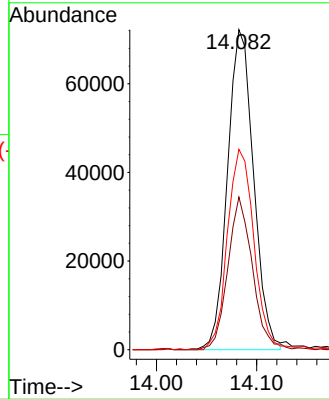
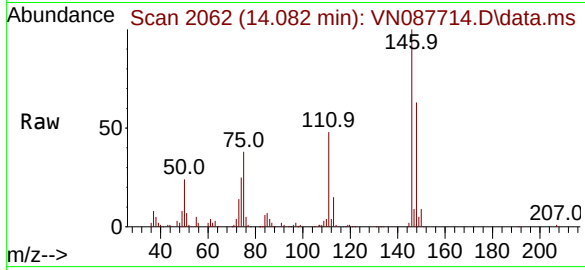
VSTDCCC020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 130330 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 44.9  | 22.9  | 68.7   |
| 148       | 63.7  | 31.6  | 94.7   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.995 ug/l

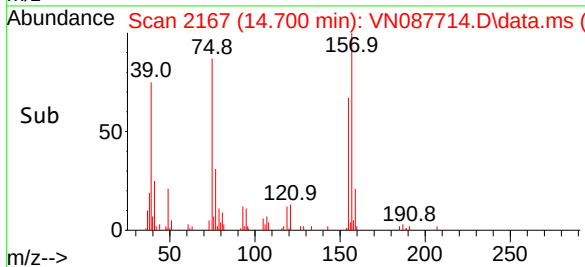
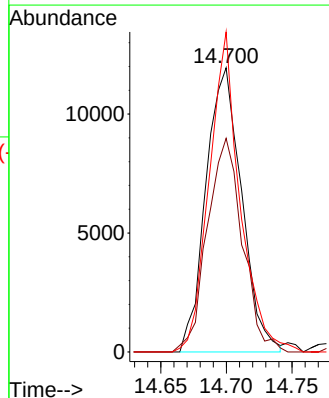
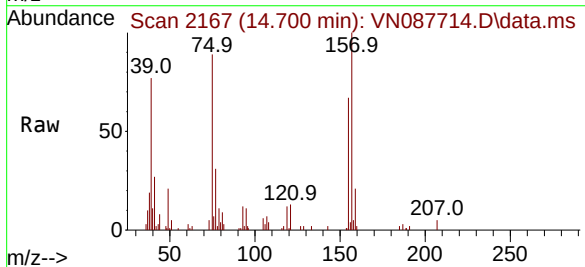
RT: 14.700 min Scan# 2167

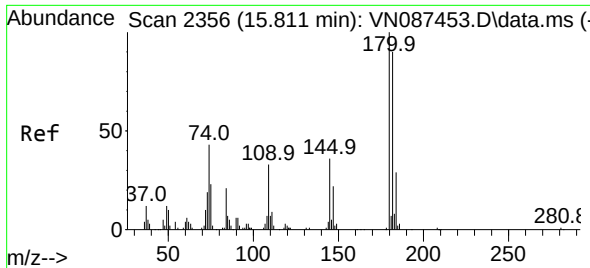
Delta R.T. 0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 22682 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 73.8  | 55.7  | 83.5  |
| 157       | 97.0  | 65.8  | 98.6  |





#89

1,2,4-Trichlorobenzene

Concen: 19.850 ug/l

RT: 15.812 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion:180 Resp: 7258

Ion Ratio Lower Upper

180 100

182 93.7 75.0 112.4

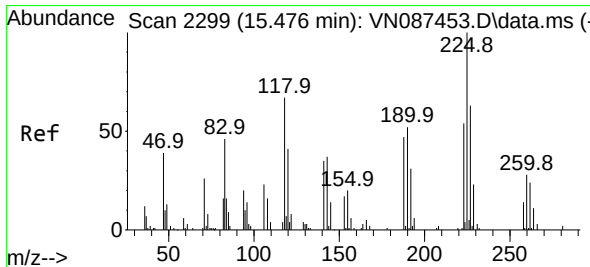
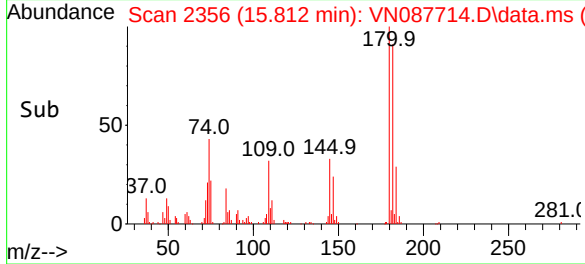
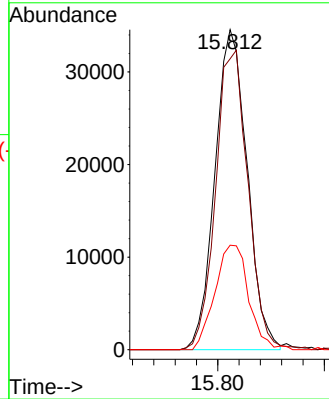
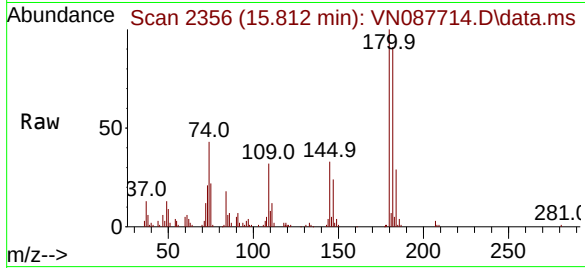
145 33.9 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 18.070 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

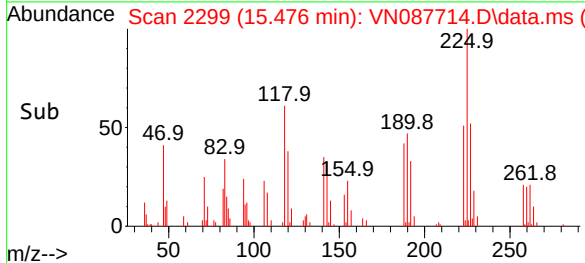
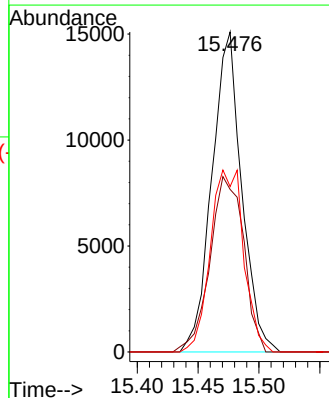
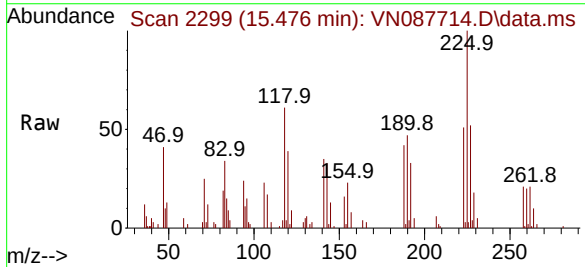
Tgt Ion:225 Resp: 25695

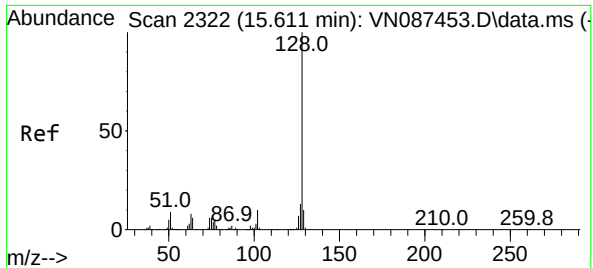
Ion Ratio Lower Upper

225 100

223 61.8 0.0 116.0

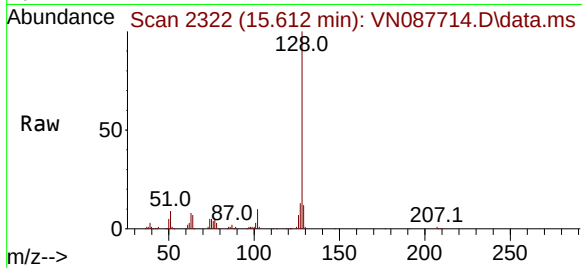
227 41.7 0.0 127.0





#91  
Naphthalene  
Concen: 19.078 ug/l  
RT: 15.612 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

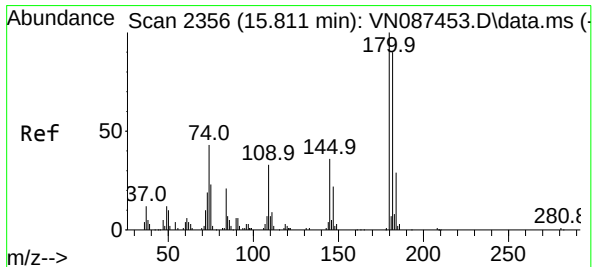
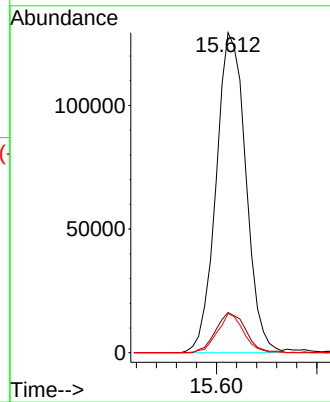
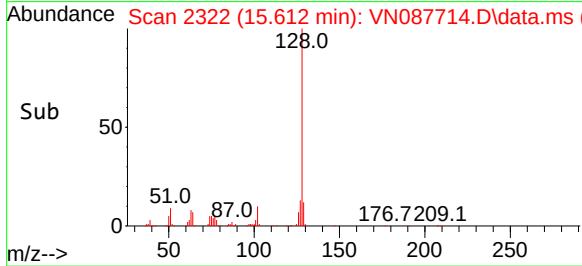
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



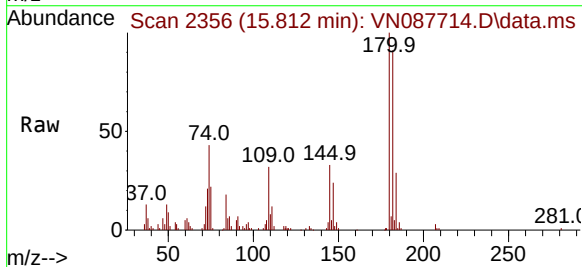
Tgt Ion:128 Resp: 266009  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.2 15.4  
129 10.7 8.9 13.3

Manual Integrations  
APPROVED

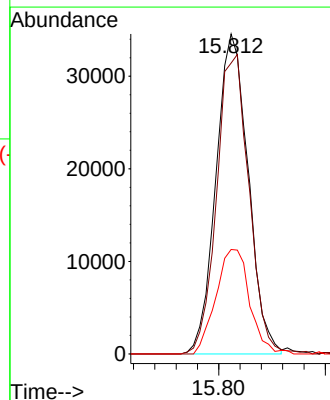
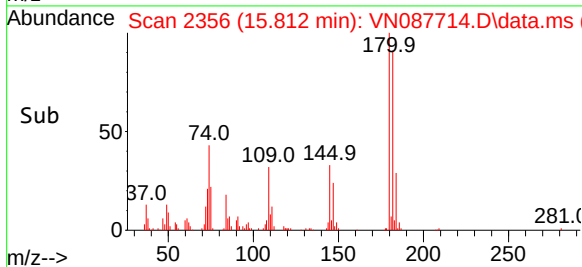
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 19.850 ug/l  
RT: 15.812 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54



Tgt Ion:180 Resp: 72588  
Ion Ratio Lower Upper  
180 100  
182 93.7 0.0 187.4  
145 33.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.959 | 1.866 | 4.7   | 68    | 0.00     |
| 3 M  | Chloromethane               | 2.010 | 1.986 | 1.2   | 69    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.131 | 2.243 | -5.3  | 74    | 0.00     |
| 5 M  | Bromomethane                | 1.154 | 1.401 | -21.4 | 91    | 0.00     |
| 6 M  | Chloroethane                | 1.374 | 1.554 | -13.1 | 81    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.067 | 3.309 | -7.9  | 78    | 0.00     |
| 8 T  | Diethyl Ether               | 1.278 | 1.305 | -2.1  | 74    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.564 | 1.932 | -23.5 | 91    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.643 | 1.813 | -10.3 | 79    | 0.00     |
| 11   | Methyl Iodide               | 1.294 | 0.999 | 22.8  | 70    | -0.01    |
| 12   | Methyl Acetate              | 3.032 | 3.414 | -12.6 | 83    | 0.00     |
| 13 M | Acrolein                    | 0.463 | 0.440 | 5.0   | 72    | 0.00     |
| 14 M | Acrylonitrile               | 1.324 | 1.241 | 6.3   | 69    | 0.00     |
| 15 M | Acetone                     | 0.378 | 0.415 | -9.8  | 75    | 0.00     |
| 16 M | Carbon Disulfide            | 5.097 | 4.692 | 7.9   | 68    | 0.00     |
| 17   | Allyl chloride              | 3.349 | 3.065 | 8.5   | 68    | -0.01    |
| 18 M | Methylene Chloride          | 2.115 | 2.111 | 0.2   | 73    | -0.01    |
| 19 M | trans-1,2-Dichloroethene    | 1.954 | 1.795 | 8.1   | 67    | 0.00     |
| 20 T | Diisopropyl ether           | 7.629 | 7.085 | 7.1   | 68    | -0.01    |
| 21 M | 1,1-Dichloroethane          | 3.944 | 3.822 | 3.1   | 69    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.404 | 2.299 | 4.4   | 69    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.563 | 0.434 | 22.9  | 57    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 7.487 | 6.633 | 11.4  | 65    | 0.00     |
| 25 M | Chloroform                  | 4.116 | 4.110 | 0.1   | 73    | 0.00     |
| 26   | Cyclohexane                 | 3.157 | 2.776 | 12.1  | 63    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.767 | 2.576 | 6.9   | 68    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 69    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.489 | 0.491 | -0.4  | 69    | 0.00     |
| 30 M | 2-Butanone                  | 0.361 | 0.349 | 3.3   | 66    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.631 | 0.665 | -5.4  | 71    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.624 | 0.649 | -4.0  | 72    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.518 | 0.535 | -3.3  | 70    | 0.00     |
| 34 M | Benzene                     | 1.545 | 1.589 | -2.8  | 71    | 0.00     |
| 35   | Methacrylonitrile           | 0.389 | 0.369 | 5.1   | 64    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.624 | 0.634 | -1.6  | 68    | 0.00     |
| 37 M | Trichloroethene             | 0.340 | 0.353 | -3.8  | 70    | 0.00     |
| 38   | Methylcyclohexane           | 0.568 | 0.516 | 9.2   | 62    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.396 | 0.424 | -7.1  | 73    | 0.00     |
| 40   | Dibromomethane              | 0.297 | 0.300 | -1.0  | 69    | 0.00     |
| 41 M | Bromodichloromethane        | 0.617 | 0.630 | -2.1  | 71    | 0.00     |
| 42 M | Vinyl Acetate               | 1.188 | 1.221 | -2.8  | 69    | 0.00     |
| 43   | Ethyl Acetate               | 0.697 | 0.712 | -2.2  | 70    | 0.00     |
| 44   | Isopropyl Acetate           | 1.181 | 1.112 | 5.8   | 64    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.008 | 0.006 | 25.0  | 54    | 0.00     |
| 46   | Methyl methacrylate         | 0.558 | 0.516 | 7.5   | 63    | 0.00     |
| 47   | n-amyl Acetate              | 0.652 | 0.635 | 2.6   | 77    | 0.03     |
| 48 M | t-1,3-Dichloropropene       | 0.672 | 0.655 | 2.5   | 68    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 0.676 | 0.679 | -0.4  | 70    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.375 | 0.414 | -10.4 | 76    | 0.00     |
| 51   | Ethyl methacrylate          | 0.661 | 0.610 | 7.7   | 64    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.676 | 0.715 | -5.8  | 72    | 0.00     |
| 53 M | Dibromochloromethane        | 0.434 | 0.444 | -2.3  | 72    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.399 | 0.402 | -0.8  | 69    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.348 | 0.323 | 7.2   | 64    | 0.00     |
| 56 M | Bromoform                   | 0.287 | 0.279 | 2.8   | 69    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 70    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.772 | 0.767 | 0.6   | 67    | 0.00     |
| 59 M | 2-Hexanone                  | 0.524 | 0.501 | 4.4   | 67    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.516 | 0.504 | 2.3   | 68    | 0.00     |
| 61 M | Tetrachloroethene           | 0.292 | 0.310 | -6.2  | 74    | 0.00     |
| 62 M | Toluene                     | 1.852 | 1.893 | -2.2  | 70    | 0.00     |
| 63 S | Toluene-d8                  | 1.380 | 1.399 | -1.4  | 71    | 0.00     |
| 64 M | Chlorobenzene               | 1.138 | 1.183 | -4.0  | 72    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.425 | -6.2  | 74    | 0.00     |
| 66 M | Ethyl Benzene               | 2.064 | 2.036 | 1.4   | 68    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.758 | 0.763 | -0.7  | 70    | 0.00     |
| 68 M | o-Xylene                    | 0.745 | 0.703 | 5.6   | 65    | 0.00     |
| 69 M | Styrene                     | 1.273 | 1.239 | 2.7   | 67    | 0.00     |
| 70   | Isopropylbenzene            | 1.893 | 1.852 | 2.2   | 67    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.649 | 0.708 | -9.1  | 73    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.604 | 0.649 | -7.5  | 80    | 0.00     |
| 73   | Bromobenzene                | 0.439 | 0.438 | 0.2   | 70    | 0.00     |
| 74   | n-propylbenzene             | 2.365 | 2.424 | -2.5  | 71    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.455 | 1.418 | 2.5   | 67    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.621 | 1.616 | 0.3   | 68    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.229 | 0.204 | 10.9  | 66    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.474 | 1.482 | -0.5  | 71    | 0.00     |
| 79   | tert-butylbenzene           | 1.367 | 1.329 | 2.8   | 67    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.620 | 1.634 | -0.9  | 70    | 0.00     |
| 81   | sec-Butylbenzene            | 1.990 | 2.009 | -1.0  | 69    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.652 | 1.631 | 1.3   | 68    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.836 | 0.893 | -6.8  | 73    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.847 | 0.928 | -9.6  | 75    | 0.00     |
| 85   | n-Butylbenzene              | 1.616 | 1.623 | -0.4  | 68    | 0.00     |
| 86 T | Hexachloroethane            | 0.323 | 0.332 | -2.8  | 71    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.798 | 0.850 | -6.5  | 73    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.164 | 0.148 | 9.8   | 61    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.477 | 0.473 | 0.8   | 70    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.185 | 0.168 | 9.2   | 62    | 0.00     |
| 91 M | Naphthalene                 | 1.818 | 1.734 | 4.6   | 66    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.477 | 0.473 | 0.8   | 70    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 30.000  | 30.000  | 0.0   | 75    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 19.049  | 4.8   | 68    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 19.766  | 1.2   | 69    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 21.045  | -5.2  | 74    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 24.291  | -21.5 | 91    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 22.610  | -13.0 | 81    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 21.576  | -7.9  | 78    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.425  | -2.1  | 74    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 24.706  | -23.5 | 91    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 22.063  | -10.3 | 79    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.448  | 22.8  | 70    | -0.01    |
| 12   | Methyl Acetate              | 20.000  | 22.519  | -12.6 | 83    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 95.068  | 4.9   | 72    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 93.724  | 6.3   | 69    | 0.00     |
| 15 M | Acetone                     | 100.000 | 109.668 | -9.7  | 75    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.410  | 7.9   | 68    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.307  | 8.5   | 68    | -0.01    |
| 18 M | Methylene Chloride          | 20.000  | 19.962  | 0.2   | 73    | -0.01    |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.378  | 8.1   | 67    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.574  | 7.1   | 68    | -0.01    |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.385  | 3.1   | 69    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.126  | 4.4   | 69    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 77.117  | 22.9  | 57    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.719  | 11.4  | 65    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.968  | 0.2   | 73    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.583  | 12.1  | 63    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 27.933  | 6.9   | 68    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 69    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.075  | -0.4  | 69    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 96.824  | 3.2   | 66    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 21.065  | -5.3  | 71    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.808  | -4.0  | 72    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.620  | -3.1  | 70    | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.573  | -2.9  | 71    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.966  | 5.2   | 64    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.317  | -1.6  | 68    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 20.772  | -3.9  | 70    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.183  | 9.1   | 62    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 21.436  | -7.2  | 73    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 20.170  | -0.9  | 69    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.422  | -2.1  | 71    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 102.828 | -2.8  | 69    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 20.443  | -2.2  | 70    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 18.837  | 5.8   | 64    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 321.735 | 19.6  | 54    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 18.523  | 7.4   | 63    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.454  | 2.7   | 77    | 0.03     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.505  | 2.5   | 68    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 20.000  | 20.087 | -0.4  | 70    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.082 | -10.4 | 76    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 18.444 | 7.8   | 64    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 21.132 | -5.7  | 72    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.469 | -2.3  | 72    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.155 | -0.8  | 69    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 92.933 | 7.1   | 64    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.424 | 2.9   | 69    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0   | 70    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 99.321 | 0.7   | 67    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 95.594 | 4.4   | 67    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.288 | 2.4   | 68    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.211 | -6.1  | 74    | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.446 | -2.2  | 70    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.412 | -1.4  | 71    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.801 | -4.0  | 72    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.267 | -6.3  | 74    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.733 | 1.3   | 68    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 40.313 | -0.8  | 70    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.876 | 5.6   | 65    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.476 | 2.6   | 67    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.568 | 2.2   | 67    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 21.812 | -9.1  | 73    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 21.469 | -7.3  | 80    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.958 | 0.2   | 70    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.500 | -2.5  | 71    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.495 | 2.5   | 67    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.937 | 0.3   | 68    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 17.800 | 11.0  | 66    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.115 | -0.6  | 71    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.444 | 2.8   | 67    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 20.173 | -0.9  | 70    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.195 | -1.0  | 69    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.739 | 1.3   | 68    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 21.371 | -6.9  | 73    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 21.893 | -9.5  | 75    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 20.078 | -0.4  | 68    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 20.565 | -2.8  | 71    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 21.300 | -6.5  | 73    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 17.995 | 10.0  | 61    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 19.850 | 0.7   | 70    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.070 | 9.6   | 62    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 19.078 | 4.6   | 66    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 19.850 | 0.7   | 70    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

## VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                              |
|---------------------|-------------------|------------------------|------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>TETR06</u>                |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3017</u>                 |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/04/2025 15:21</u>      |
| Lab File ID:        | <u>VN087723.D</u> | Init. Calib. Date(s):  | <u>08/05/2025 08/05/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>13:37 15:01</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                       | RRF   | RRF020 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 1.959 | 1.834  |            | -6.38  | 50    |
| Chloromethane                  | 2.010 | 1.897  |            | -5.62  | 50    |
| Vinyl Chloride                 | 2.131 | 2.066  | 0.1        | -3.05  | 50    |
| Bromomethane                   | 1.154 | 1.459  | 0.1        | 26.43  | 50    |
| Chloroethane                   | 1.374 | 1.536  |            | 11.79  | 50    |
| Trichlorofluoromethane         | 3.067 | 3.312  |            | 7.99   | 50    |
| 1,1,2-Trichlorotrifluoroethane | 1.564 | 1.899  |            | 21.42  | 50    |
| 1,1-Dichloroethene             | 1.643 | 1.893  | 0.1        | 15.22  | 50    |
| Acetone                        | 0.378 | 0.360  |            | -4.76  | 50    |
| Carbon Disulfide               | 5.097 | 4.471  |            | -12.28 | 50    |
| Methyl tert-Butyl Ether        | 7.487 | 6.600  |            | -11.85 | 50    |
| Methyl Acetate                 | 3.032 | 3.303  |            | 8.94   | 50    |
| Methylene Chloride             | 2.115 | 2.044  |            | -3.36  | 50    |
| trans-1,2-Dichloroethene       | 1.954 | 1.833  |            | -6.19  | 50    |
| 1,1-Dichloroethane             | 3.944 | 3.832  | 0.2        | -2.84  | 50    |
| Cyclohexane                    | 0.567 | 0.572  |            | 0.88   | 50    |
| 2-Butanone                     | 0.361 | 0.359  |            | -0.55  | 50    |
| Carbon Tetrachloride           | 0.518 | 0.552  | 0.1        | 6.56   | 50    |
| cis-1,2-Dichloroethene         | 2.404 | 2.228  |            | -7.32  | 50    |
| Chloroform                     | 4.116 | 4.038  | 0.2        | -1.89  | 50    |
| 1,1,1-Trichloroethane          | 0.624 | 0.682  | 0.1        | 9.3    | 50    |
| Methylcyclohexane              | 0.568 | 0.521  |            | -8.27  | 50    |
| Benzene                        | 1.545 | 1.651  | 0.5        | 6.86   | 50    |
| 1,2-Dichloroethane             | 0.624 | 0.631  | 0.1        | 1.12   | 50    |
| Trichloroethene                | 0.340 | 0.381  | 0.3        | 12.06  | 50    |
| 1,2-Dichloropropane            | 0.396 | 0.430  |            | 8.59   | 50    |
| Bromodichloromethane           | 0.617 | 0.664  | 0.2        | 7.62   | 50    |
| 4-Methyl-2-Pentanone           | 0.772 | 0.785  |            | 1.68   | 50    |
| Toluene                        | 1.852 | 1.895  | 0.4        | 2.32   | 50    |
| t-1,3-Dichloropropene          | 0.672 | 0.654  | 0.1        | -2.68  | 50    |
| cis-1,3-Dichloropropene        | 0.676 | 0.678  | 0.2        | 0.3    | 50    |
| 1,1,2-Trichloroethane          | 0.375 | 0.420  | 0.1        | 12     | 50    |
| 2-Hexanone                     | 0.524 | 0.496  |            | -5.34  | 50    |
| Dibromochloromethane           | 0.434 | 0.481  | 0.1        | 10.83  | 50    |
| 1,2-Dibromoethane              | 0.399 | 0.423  |            | 6.01   | 50    |
| Tetrachloroethene              | 0.292 | 0.328  | 0.2        | 12.33  | 50    |
| Chlorobenzene                  | 1.138 | 1.179  | 0.5        | 3.6    | 50    |
| Ethyl Benzene                  | 2.064 | 2.011  | 0.1        | -2.57  | 50    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.



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Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>TETR06</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3017</u>                        |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/04/2025</u> <u>15:21</u>      |
| Lab File ID:        | <u>VN087723.D</u> | Init. Calib. Date(s):  | <u>08/05/2025</u> <u>08/05/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>13:37</u> <u>15:01</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)                    |

| COMPOUND                    | RRF   | RRF020 | MIN<br>RRF | %D    | MAX%D |
|-----------------------------|-------|--------|------------|-------|-------|
| m/p-Xylenes                 | 0.758 | 0.747  | 0.3        | -1.45 | 50    |
| o-Xylene                    | 0.745 | 0.743  | 0.3        | -0.27 | 50    |
| Styrene                     | 1.273 | 1.265  | 0.3        | -0.63 | 50    |
| Bromoform                   | 0.287 | 0.293  | 0.1        | 2.09  | 50    |
| Isopropylbenzene            | 1.893 | 1.855  |            | -2.01 | 50    |
| 1,1,2,2-Tetrachloroethane   | 0.649 | 0.703  | 0.3        | 8.32  | 50    |
| 1,3,5-Trimethylbenzene      | 1.621 | 1.619  |            | -0.12 | 50    |
| 1,3-Dichlorobenzene         | 0.836 | 0.917  | 0.2        | 9.69  | 50    |
| 1,4-Dichlorobenzene         | 0.847 | 0.935  | 0.2        | 10.39 | 50    |
| 1,2-Dichlorobenzene         | 0.798 | 0.896  | 0.2        | 12.28 | 50    |
| 1,2-Dibromo-3-Chloropropane | 0.164 | 0.157  |            | -4.27 | 50    |
| 1,2,4-Trichlorobenzene      | 0.477 | 0.493  | 0.2        | 3.35  | 50    |
| 1,2,3-Trichlorobenzene      | 0.477 | 0.493  |            | 3.35  | 50    |
| 1,2-Dichloroethane-d4       | 2.767 | 2.506  | 0.01       | -9.43 | 50    |
| Toluene-d8                  | 1.380 | 1.388  | 0.01       | 0.58  | 50    |
| 4-Bromofluorobenzene        | 0.516 | 0.489  | 0.2        | -5.23 | 50    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 42111      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 209761     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 194705     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 105547     | 27.174   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 90.567%# |        |          |
| 60) 4-Bromofluorobenzene     | 12.823         | 95   | 95262      | 28.430   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 94.767%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 270343     | 30.176   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.600% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 51486      | 18.726   | ug/l   | 91       |
| 3) Chloromethane             | 2.383          | 50   | 53260      | 18.881   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.536          | 62   | 58000      | 19.386   | ug/l   | 98       |
| 5) Bromomethane              | 2.983          | 94   | 40951      | 25.287   | ug/l   | 88       |
| 6) Chloroethane              | 3.136          | 64   | 43117      | 22.349   | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 92972      | 21.592   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 36803      | 20.516   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 53320      | 24.284   | ug/l   | 90       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 53150      | 23.045   | ug/l   | 87       |
| 11) Methyl Iodide            | 4.583          | 142  | 25930      | 14.279   | ug/l   | 93       |
| 12) Methyl Acetate           | 5.018          | 43   | 92717      | 21.784   | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 77597      | 119.369  | ug/l   | 97       |
| 14) Acrylonitrile            | 5.706          | 53   | 172758     | 92.955   | ug/l   | 99       |
| 15) Acetone                  | 4.418          | 58   | 50531      | 95.158   | ug/l   | 75       |
| 16) Carbon Disulfide         | 4.712          | 76   | 125505     | 17.543   | ug/l   | 100      |
| 17) Allyl chloride           | 5.018          | 41   | 82620      | 17.575   | ug/l   | 96       |
| 18) Methylene Chloride       | 5.265          | 84   | 57389      | 19.328   | ug/l # | 81       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 51473      | 18.767   | ug/l   | 95       |
| 20) Diisopropyl ether        | 6.659          | 45   | 196352     | 18.335   | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 6.547          | 63   | 107573     | 19.433   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 62540      | 18.532   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 62067m     | 78.592   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 185284     | 17.630   | ug/l # | 79       |
| 25) Chloroform               | 7.953          | 83   | 113358     | 19.618   | ug/l   | 94       |
| 26) Cyclohexane              | 8.241          | 56   | 79919      | 18.032   | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 71782      | 20.981   | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 251215     | 99.616   | ug/l # | 95       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 88783      | 20.121   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 95339      | 21.850   | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 77163      | 21.287   | ug/l   | 94       |
| 34) Benzene                  | 8.588          | 78   | 230901     | 21.380   | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.765          | 41   | 50964      | 18.727   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 88217      | 20.210   | ug/l   | 99       |
| 37) Trichloroethene          | 9.330          | 130  | 53338      | 22.421   | ug/l # | 76       |
| 38) Methylcyclohexane        | 9.582          | 83   | 72850      | 18.355   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 60183      | 21.735   | ug/l   | 96       |
| 40) Dibromomethane           | 9.688          | 93   | 45432      | 21.868   | ug/l   | 98       |
| 41) Bromodichloromethane     | 9.871          | 83   | 92910      | 21.522   | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.594          | 43   | 776716     | 93.526   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 96931    | 19.896  | ug/l   | 100      |
| 44) Isopropyl Acetate         | 8.671  | 43   | 157951   | 19.126  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.677  | 88   | 18119    | 344.161 | ug/l # | 89       |
| 46) Methyl methacrylate       | 9.665  | 41   | 74792    | 19.186  | ug/l   | 98       |
| 47) n-amyl Acetate            | 12.541 | 43   | 90034m   | 19.735  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 91435    | 19.468  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 94752    | 20.047  | ug/l   | 90       |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 58762    | 22.387  | ug/l   | 99       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 85505    | 18.496  | ug/l   | 89       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 100640   | 21.281  | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.335 | 129  | 67293    | 22.199  | ug/l   | 96       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 59165    | 21.233  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 226909   | 93.240  | ug/l   | 99       |
| 56) Bromoform                 | 12.553 | 173  | 40935    | 20.416  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 509673   | 101.757 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 322095   | 94.645  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 42539    | 22.426  | ug/l   | 91       |
| 62) Toluene                   | 10.612 | 91   | 246003   | 20.471  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 153070   | 20.730  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 56409    | 21.728  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 261043   | 19.489  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.047 | 106  | 193984   | 39.456  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 96487    | 19.948  | ug/l   | 93       |
| 69) Styrene                   | 12.388 | 104  | 164210   | 19.883  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.671 | 105  | 240721   | 19.589  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 91191    | 21.658  | ug/l   | 96       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 74901m   | 19.096  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 59076    | 20.738  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 311880   | 20.322  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 186992   | 19.808  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 210137   | 19.972  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 27859    | 18.763  | ug/l   | 95       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 191634   | 20.031  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 176182   | 19.861  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 215522   | 20.499  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 257489   | 19.938  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 212506   | 19.818  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 119016   | 21.940  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 121344   | 22.064  | ug/l   | 95       |
| 85) n-Butylbenzene            | 14.035 | 91   | 204421   | 19.485  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.306 | 117  | 43724    | 20.881  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 116301   | 22.460  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 20419    | 19.144  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 63971    | 20.672  | ug/l   | 96       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 21826    | 18.138  | ug/l   | 93       |
| 91) Naphthalene               | 15.611 | 128  | 219921   | 18.638  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 63971    | 20.672  | ug/l   | 96       |

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



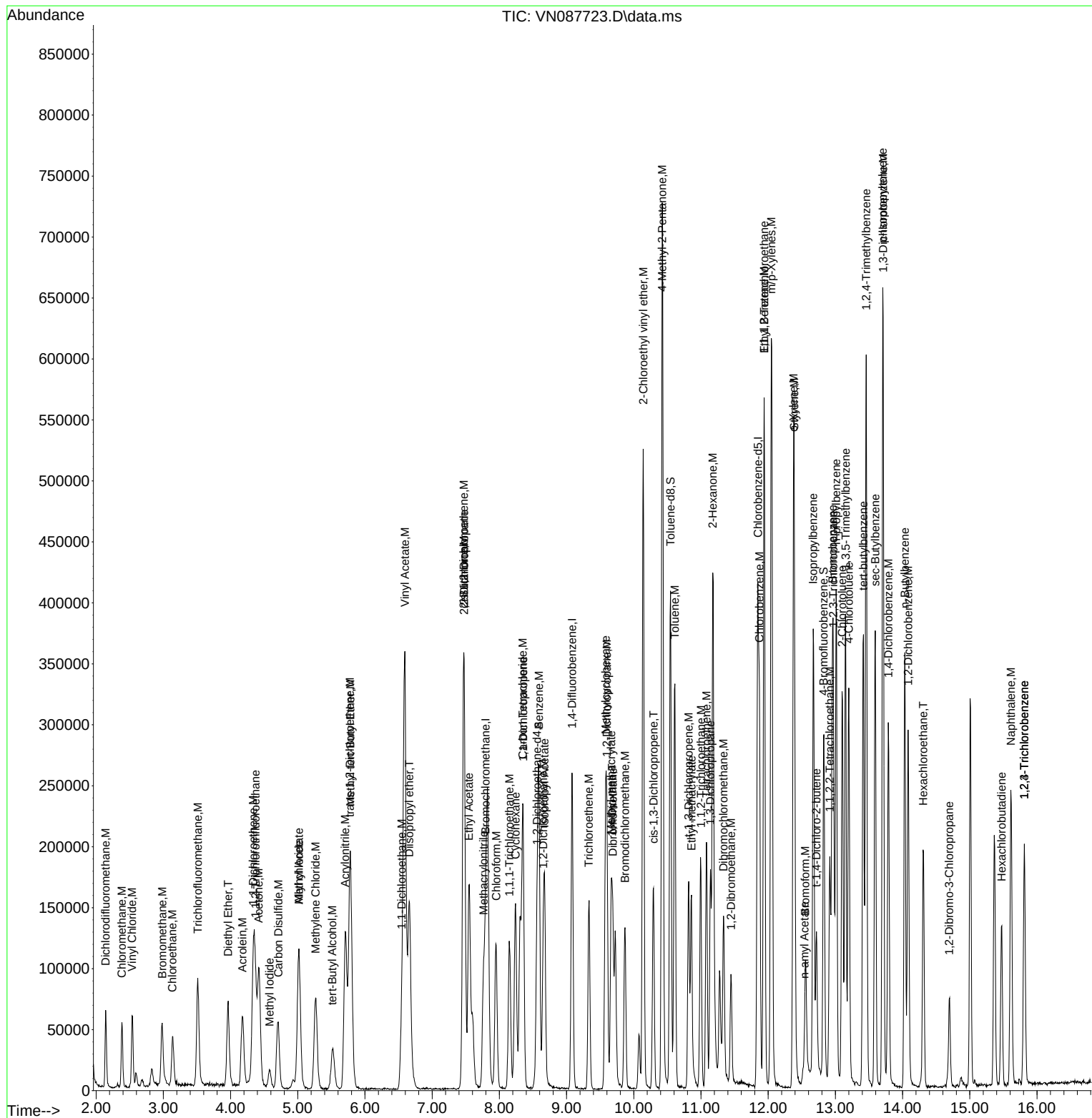
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 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

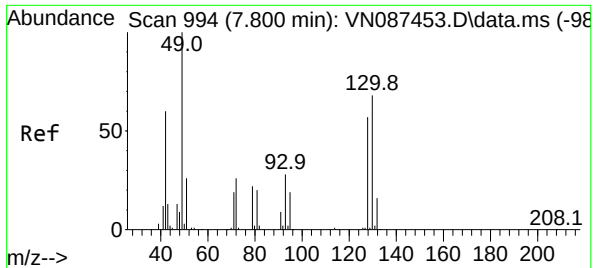
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration







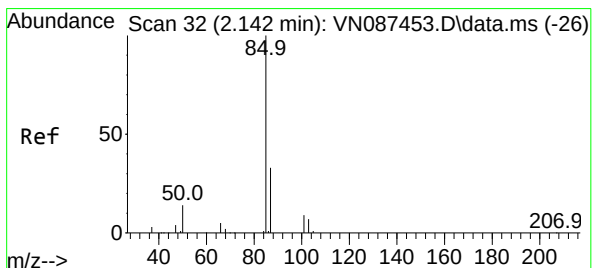
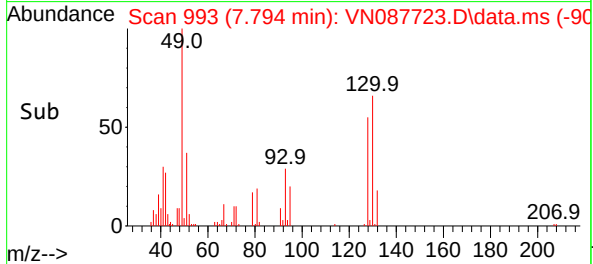
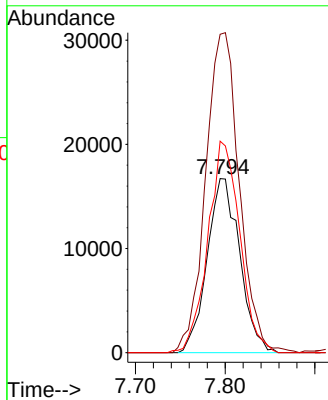
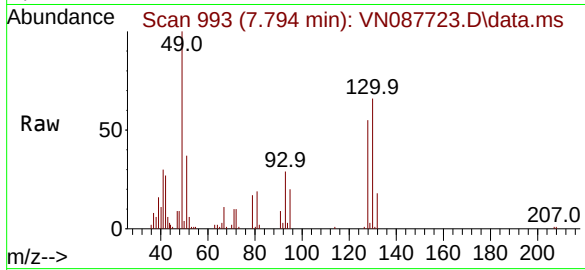
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion:128 Resp: 4211  
Ion Ratio Lower Upper  
128 100  
49 190.1 0.0 494.8  
130 119.3 0.0 321.5

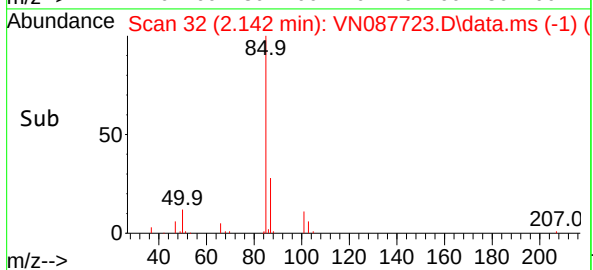
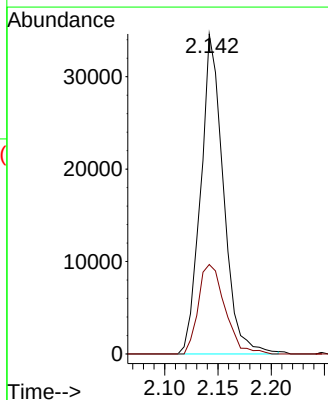
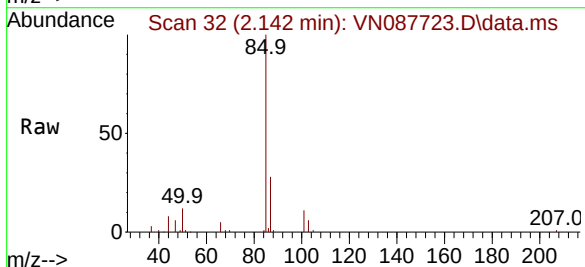
Manual Integrations  
APPROVED

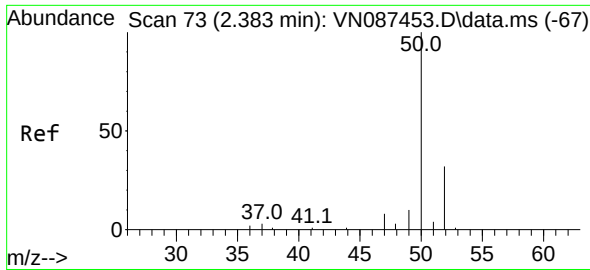
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 18.726 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 85 Resp: 51486  
Ion Ratio Lower Upper  
85 100  
87 28.0 16.4 49.2





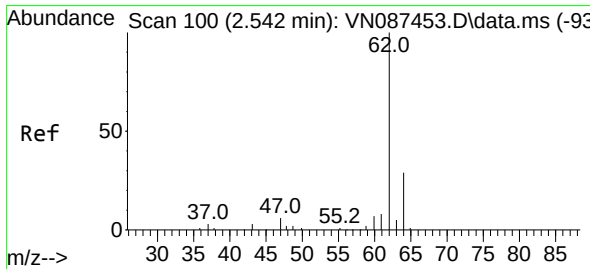
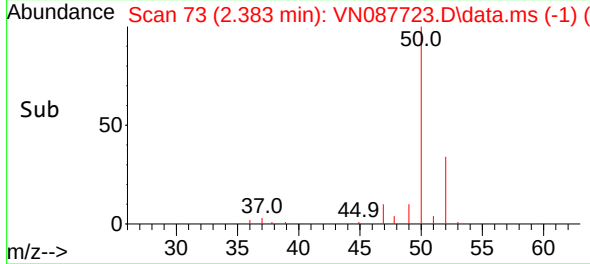
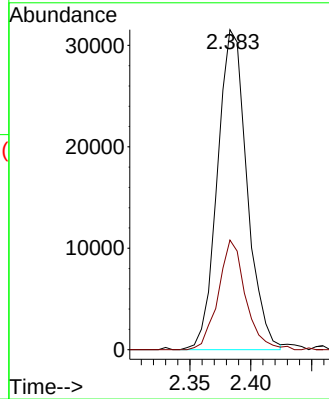
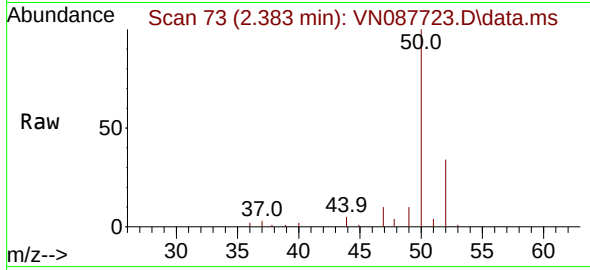
#3  
Chloromethane  
Concen: 18.881 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 50 Resp: 53260  
Ion Ratio Lower Upper  
50 100  
52 34.2 25.8 38.6

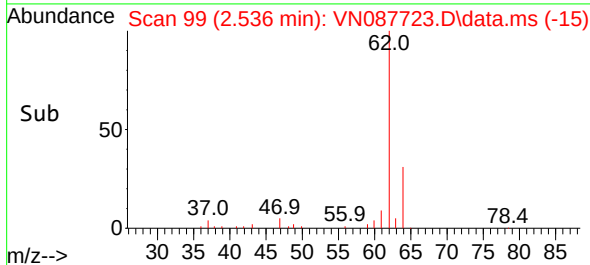
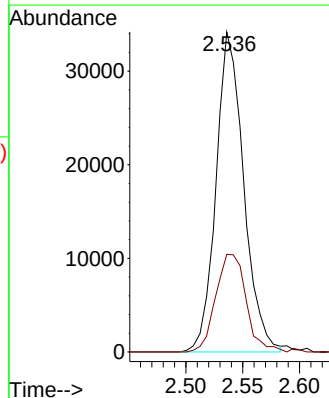
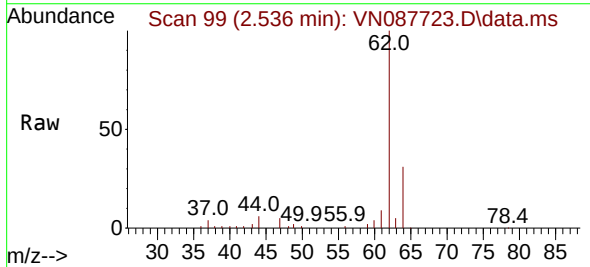
Manual Integrations  
APPROVED

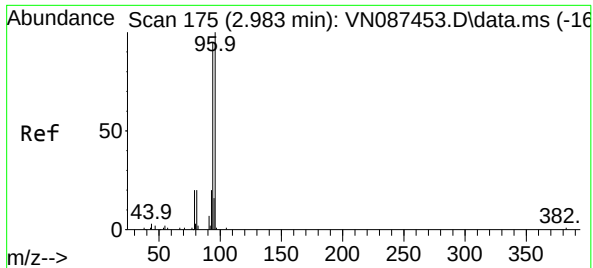
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 19.386 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 62 Resp: 58000  
Ion Ratio Lower Upper  
62 100  
64 30.5 23.4 35.2





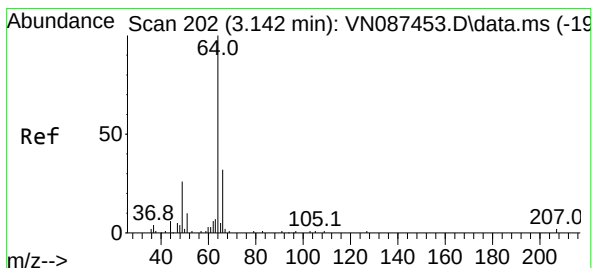
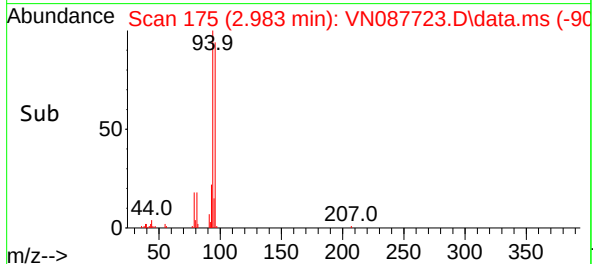
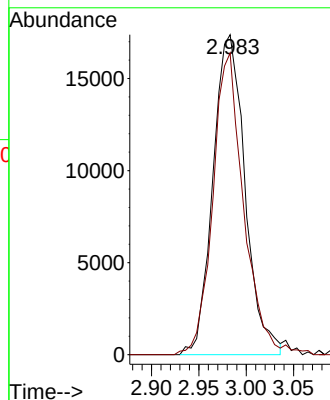
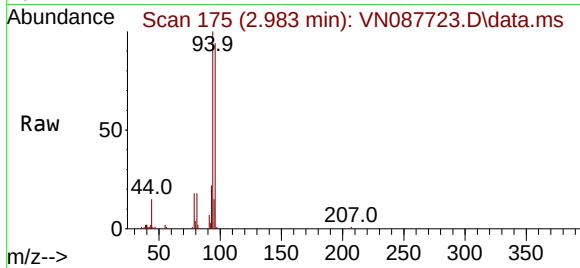
#5  
Bromomethane  
Concen: 25.287 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 94 Resp: 4095  
Ion Ratio Lower Upper  
94 100  
96 93.1 84.2 126.4

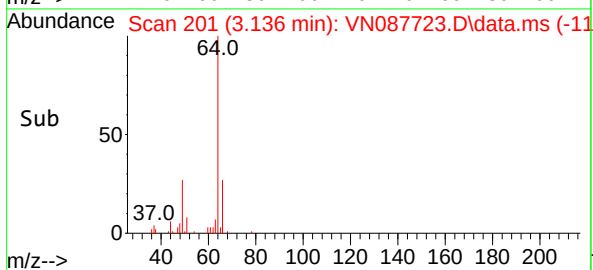
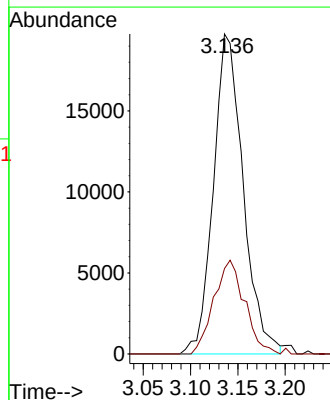
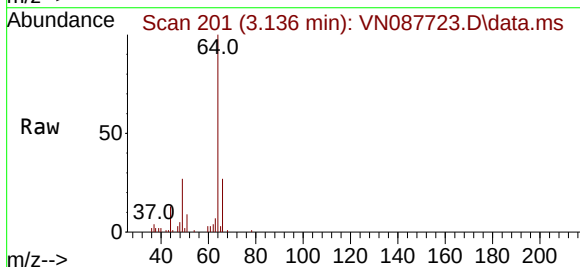
Manual Integrations  
APPROVED

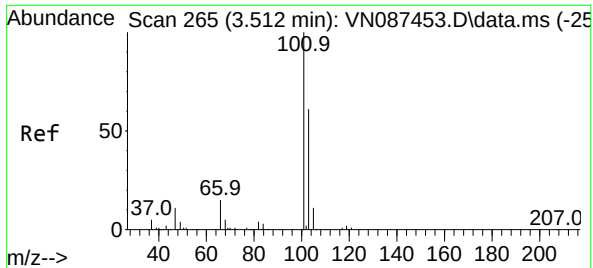
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 22.349 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 64 Resp: 43117  
Ion Ratio Lower Upper  
64 100  
66 26.7 25.4 38.0





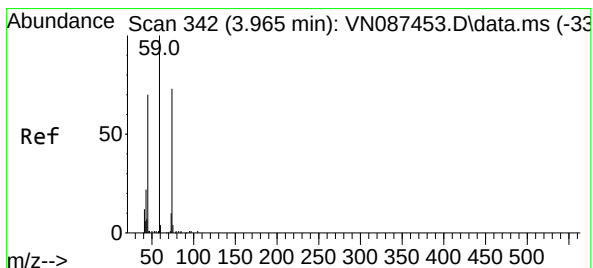
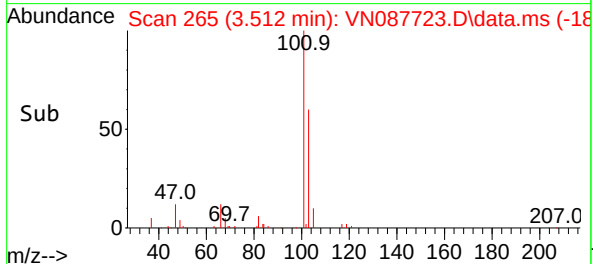
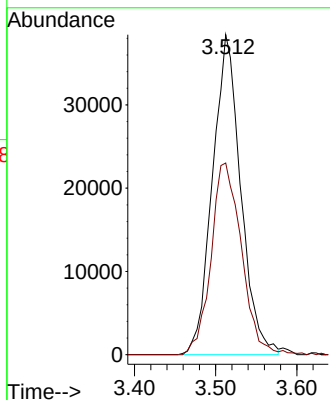
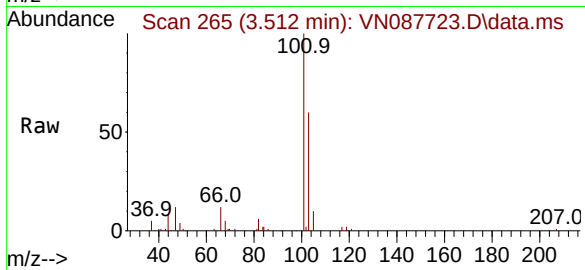
#7  
Trichlorofluoromethane  
Concen: 21.592 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion:101 Resp: 92972  
Ion Ratio Lower Upper  
101 100  
103 59.9 49.2 73.8

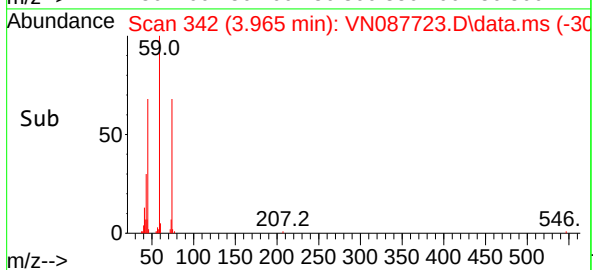
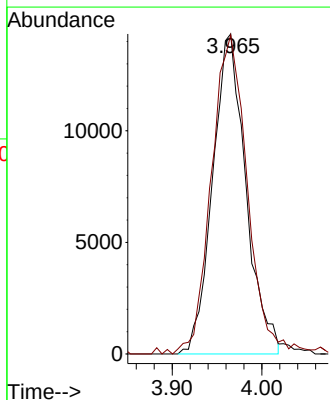
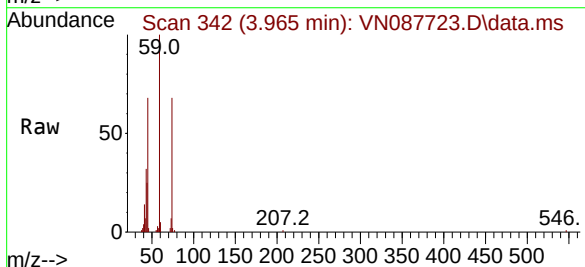
Manual Integrations  
APPROVED

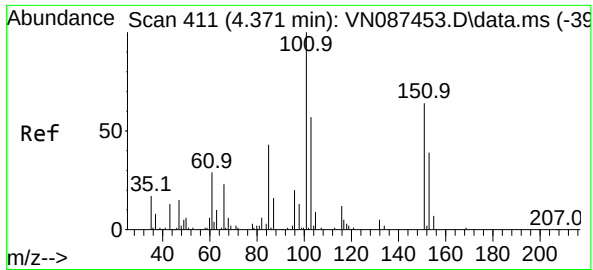
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 20.516 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 74 Resp: 36803  
Ion Ratio Lower Upper  
74 100  
45 107.0 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.284 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

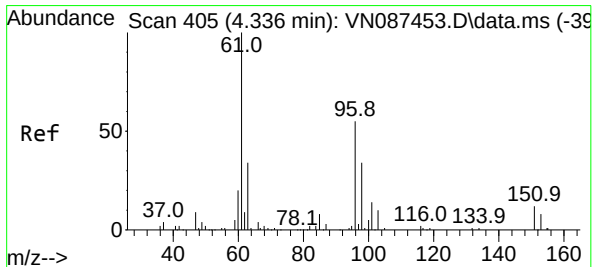
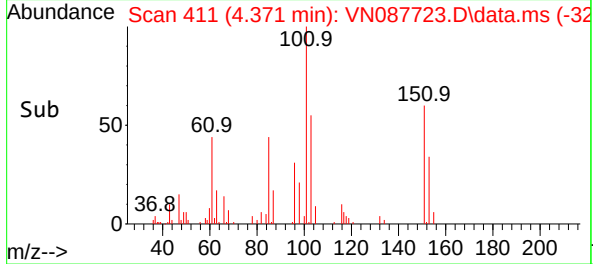
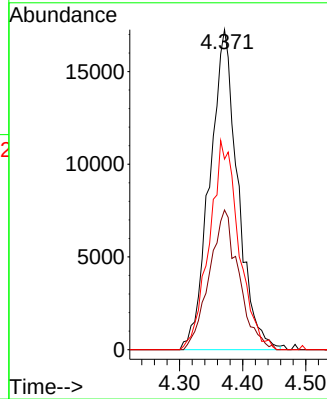
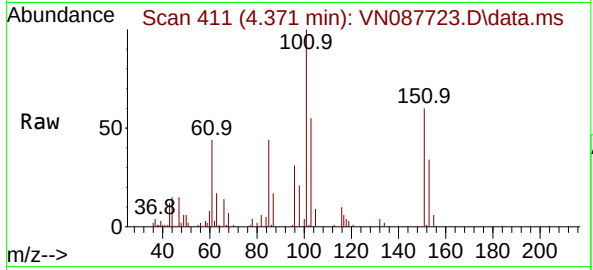
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 101   | Resp: | 53320 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 45.8  | 0.0   | 57.0  |
| 151       | 67.9  | 0.0   | 134.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 23.045 ug/l

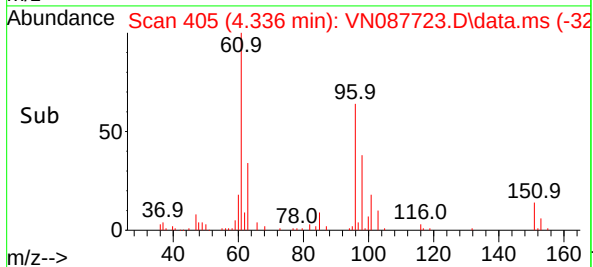
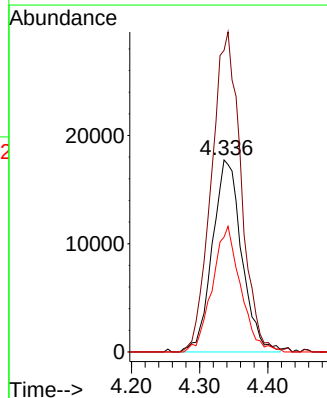
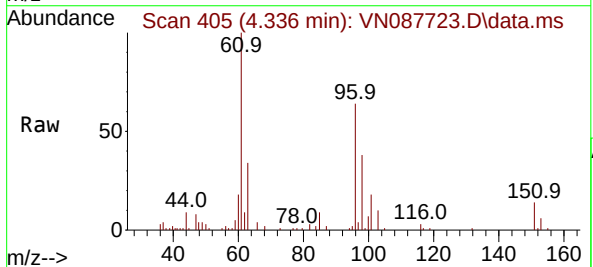
RT: 4.336 min Scan# 405

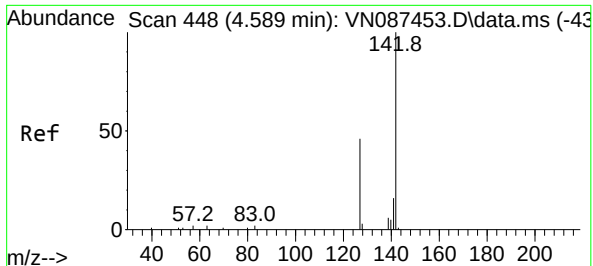
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 53150 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 157.1 | 144.2 | 216.4 |
| 98        | 59.8  | 49.7  | 74.5  |





#11

Methyl Iodide

Concen: 14.279 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

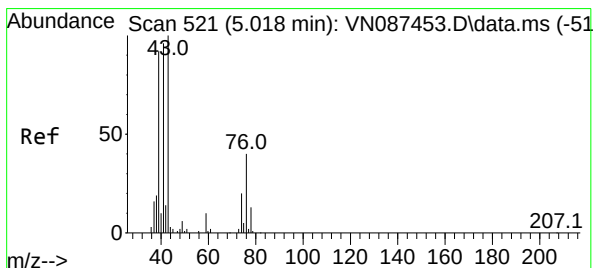
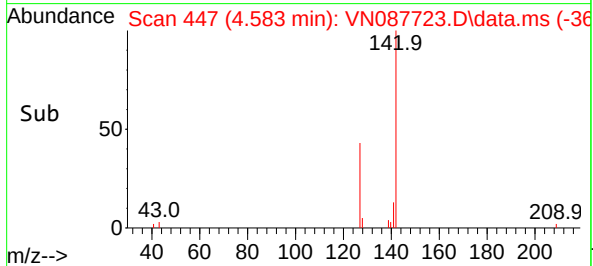
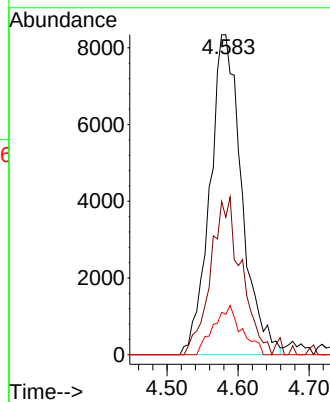
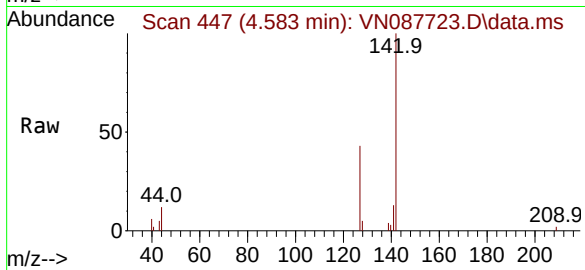
VSTDCCC020EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 25930 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 40.7  | 22.9  | 68.7  |
| 141       | 12.7  | 7.7   | 23.1  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 21.784 ug/l

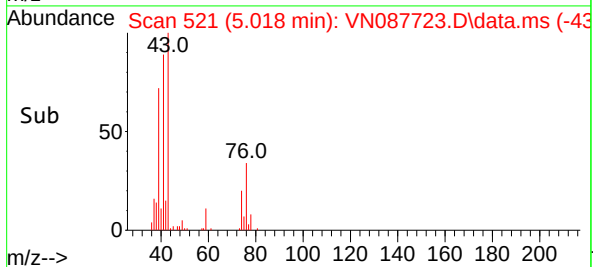
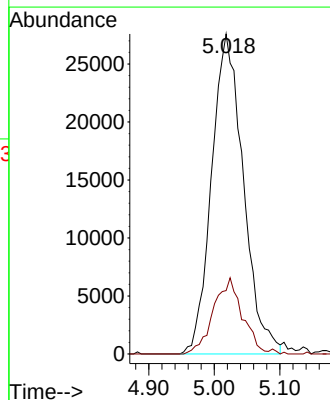
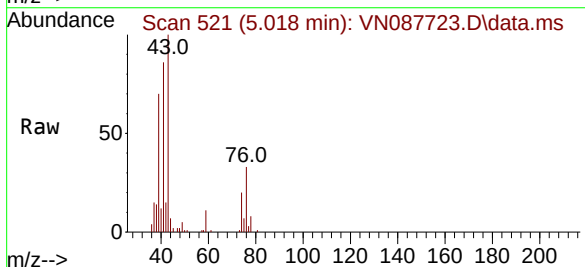
RT: 5.018 min Scan# 521

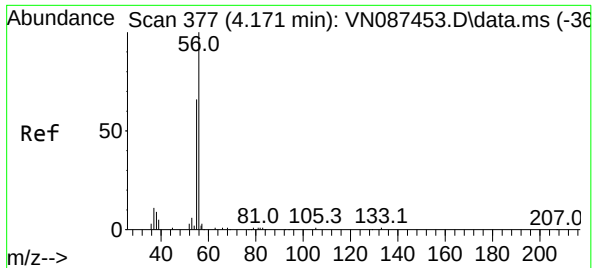
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 92717 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 74        | 20.1  | 16.0  | 24.0  |





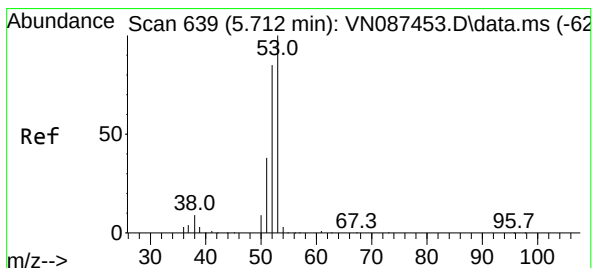
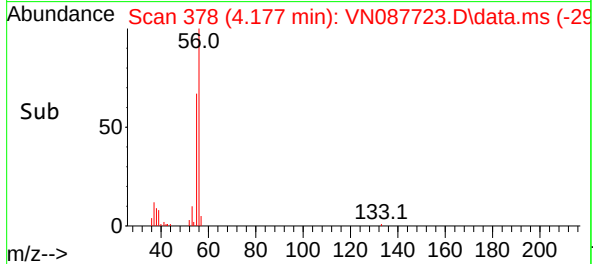
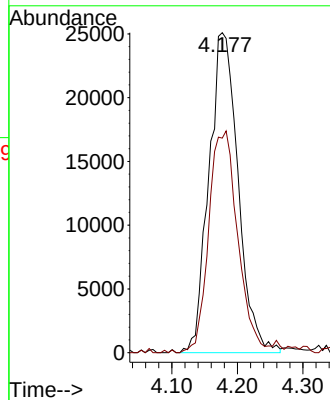
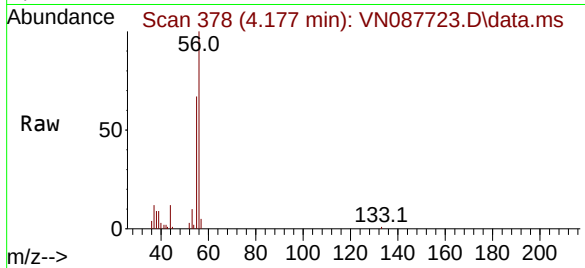
#13  
Acrolein  
Concen: 119.369 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 56 Resp: 7759  
Ion Ratio Lower Upper  
56 100  
55 68.8 57.4 86.0

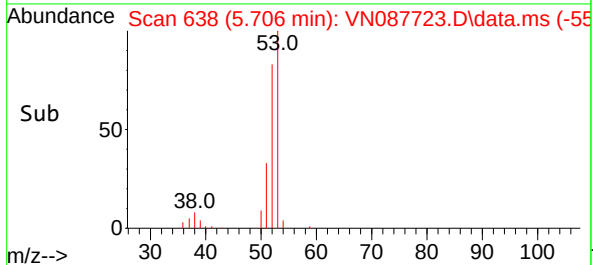
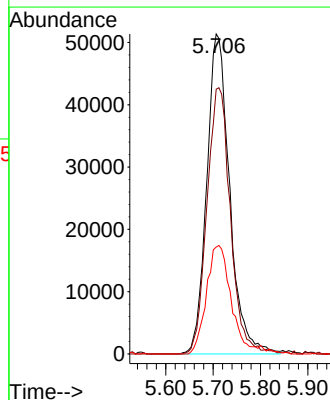
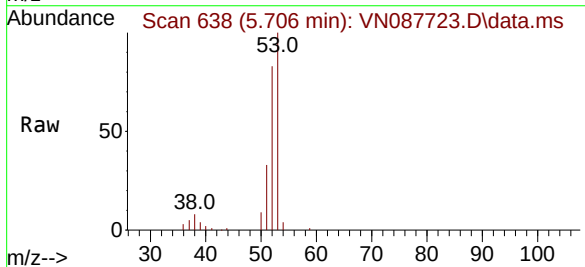
Manual Integrations  
APPROVED

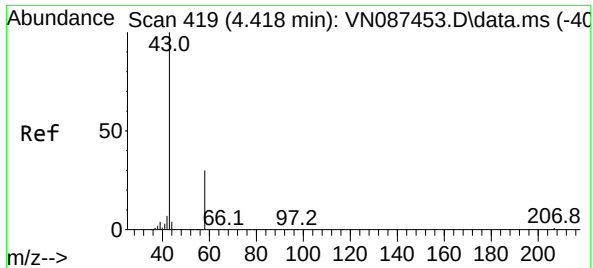
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#14  
Acrylonitrile  
Concen: 92.955 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 53 Resp: 172758  
Ion Ratio Lower Upper  
53 100  
52 84.6 42.4 127.2  
51 35.9 18.5 55.5





#15

Acetone

Concen: 95.158 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 58 Resp: 5053

Ion Ratio Lower Upper

58 100

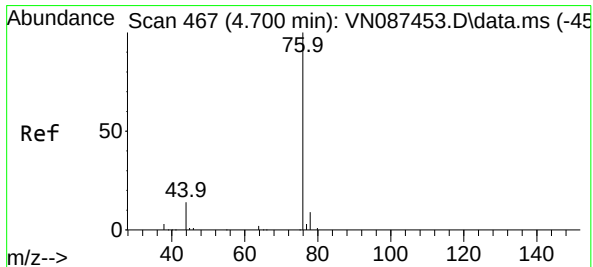
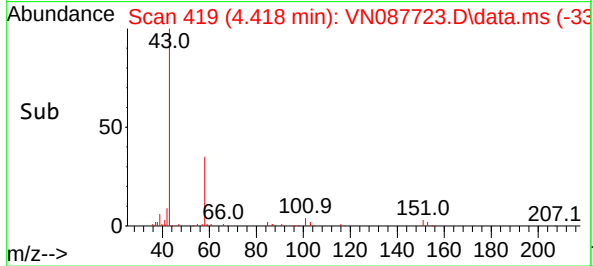
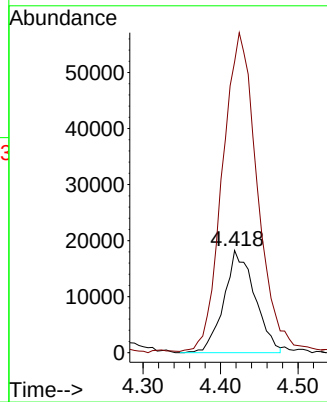
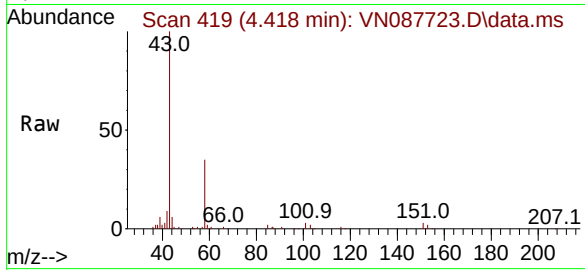
43 283.2 268.9 403.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#16

Carbon Disulfide

Concen: 17.543 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.012 min

Lab File: VN087723.D

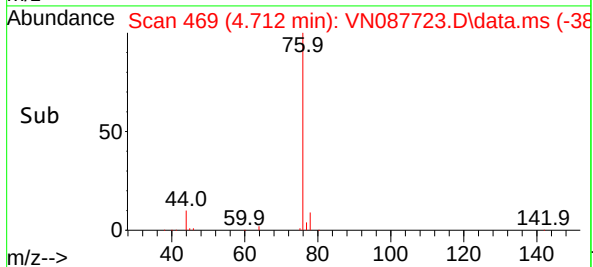
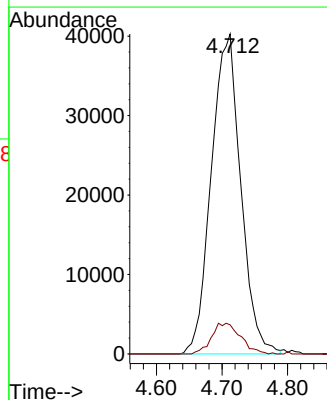
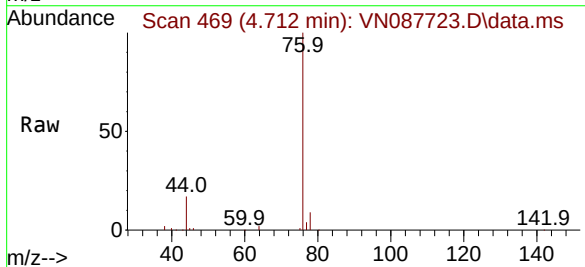
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 125505

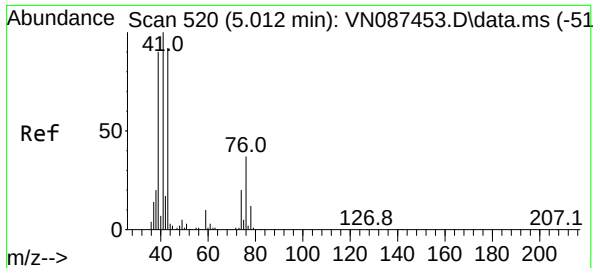
Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7







#17

Allyl chloride

Concen: 17.575 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

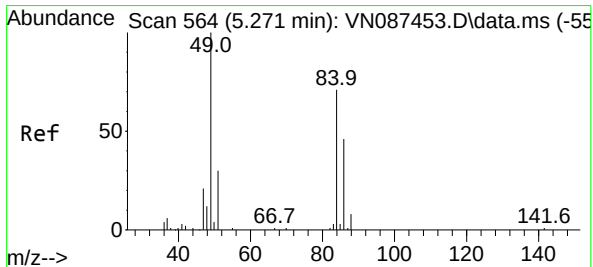
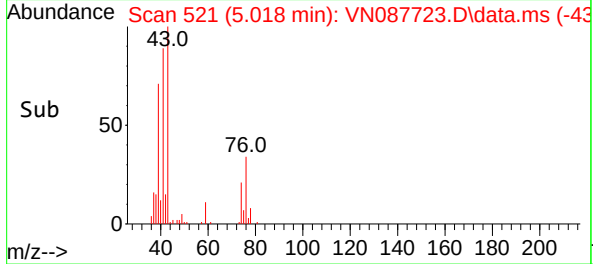
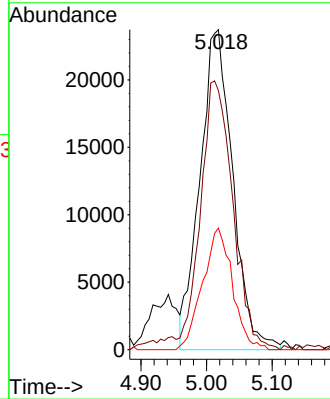
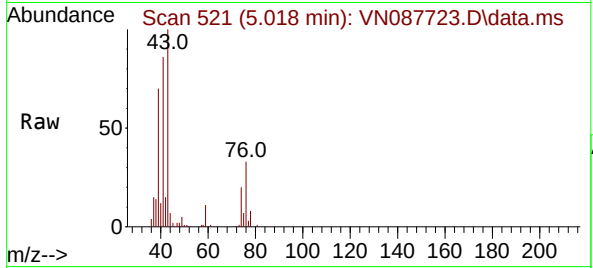
VSTDCCC020EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 82620 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 82.2  | 42.4  | 127.2 |
| 76       | 38.6  | 16.9  | 50.6  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 19.328 ug/l

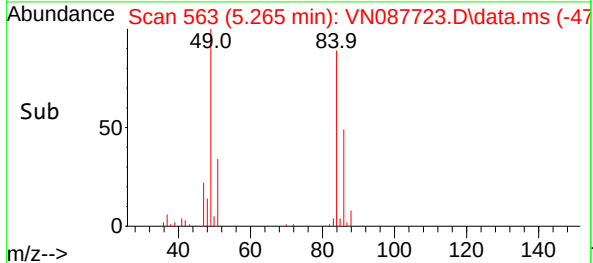
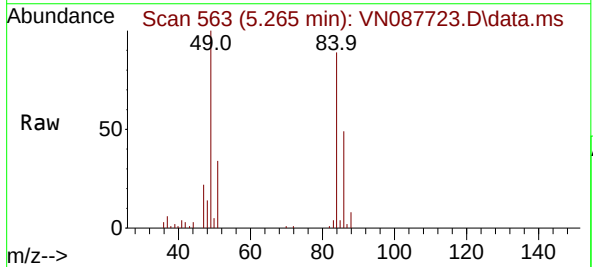
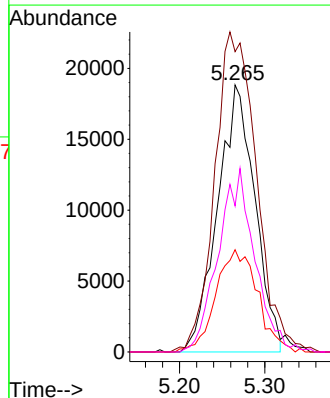
RT: 5.265 min Scan# 563

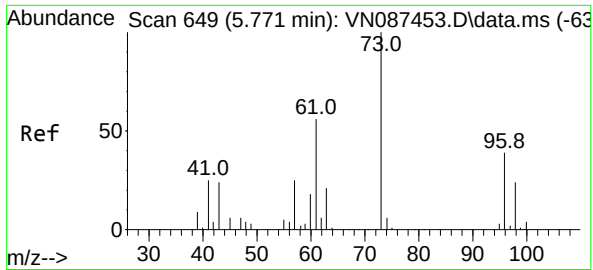
Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 57389  |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 110.6 | 112.9 | 169.3# |
| 51       | 37.1  | 33.8  | 50.8   |
| 86       | 54.7  | 51.9  | 77.9   |





#19

trans-1,2-Dichloroethene

Concen: 18.767 ug/l

RT: 5.777 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 96 Resp: 5147

Ion Ratio Lower Upper

96 100

61 135.5 114.2 171.4

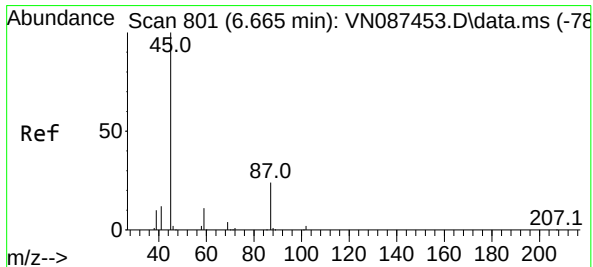
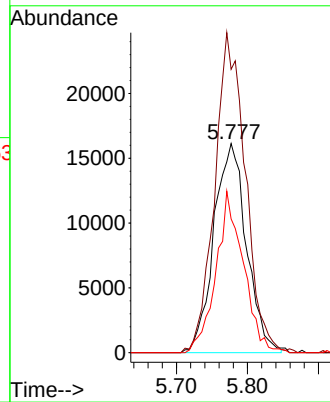
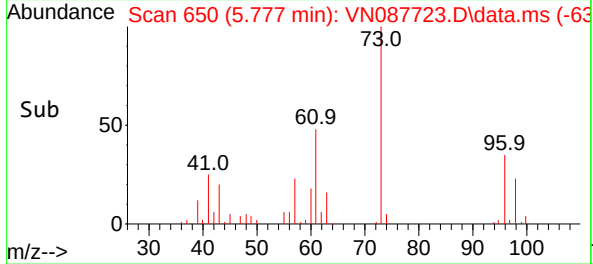
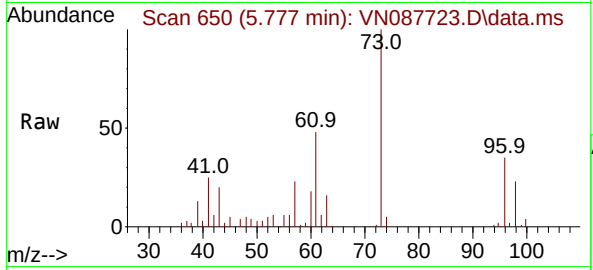
98 64.0 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 18.335 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion: 45 Resp: 196352

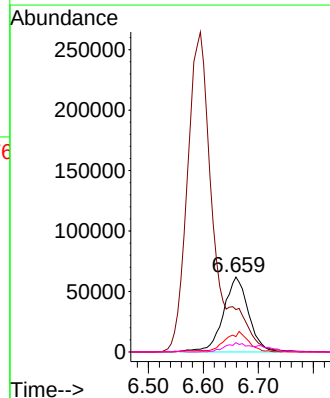
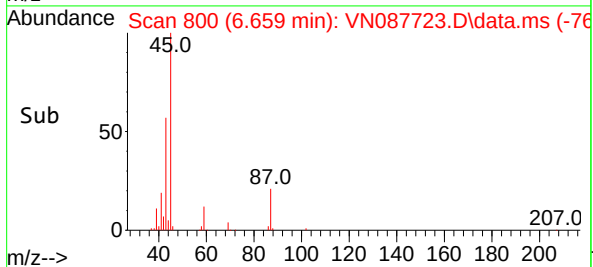
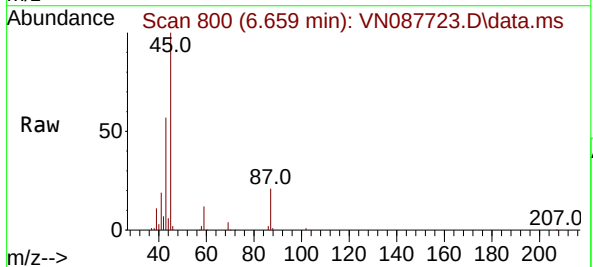
Ion Ratio Lower Upper

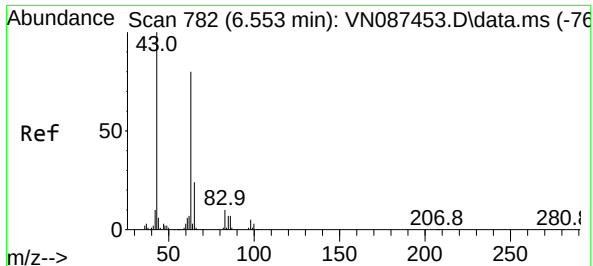
45 100

43 54.6 44.7 67.1

87 20.7 20.2 30.2

59 11.8 8.7 13.1





#21

1,1-Dichloroethane

Concen: 19.433 ug/l

RT: 6.547 min Scan# 781

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 10757

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

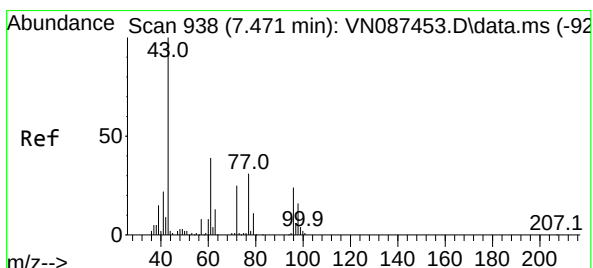
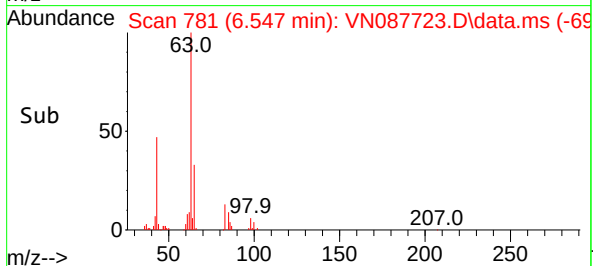
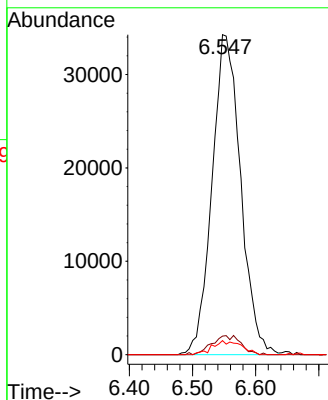
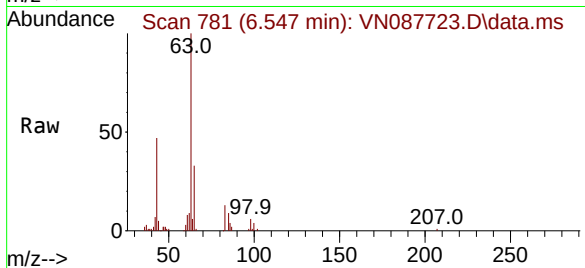
100 4.4 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 18.532 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

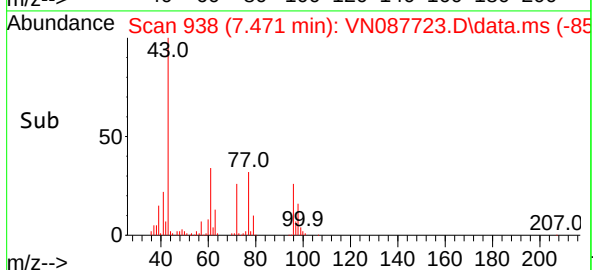
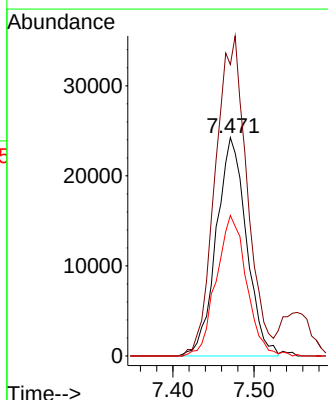
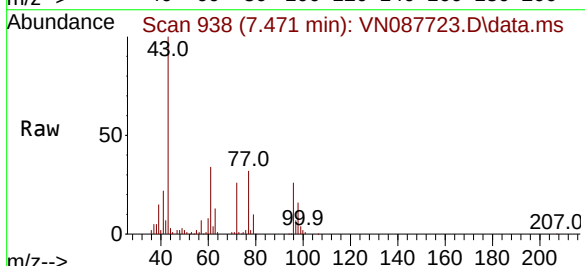
Tgt Ion: 96 Resp: 62540

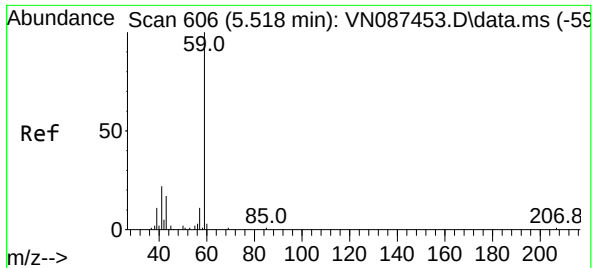
Ion Ratio Lower Upper

96 100

61 154.5 126.6 190.0

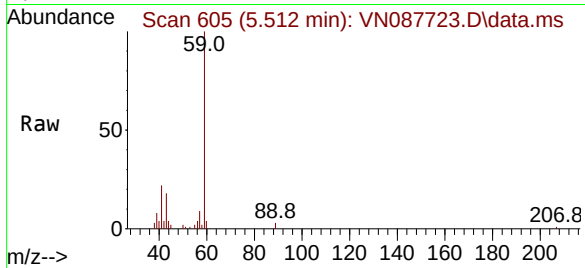
98 64.2 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 78.592 ug/l m  
RT: 5.512 min Scan# 605  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

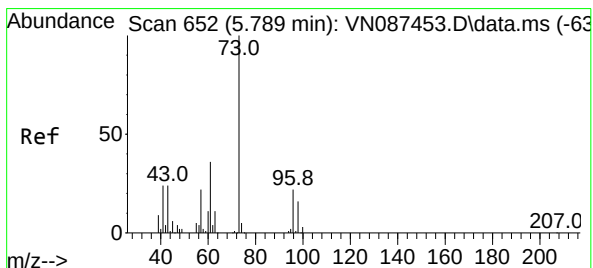
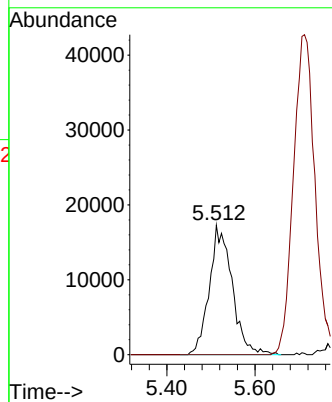
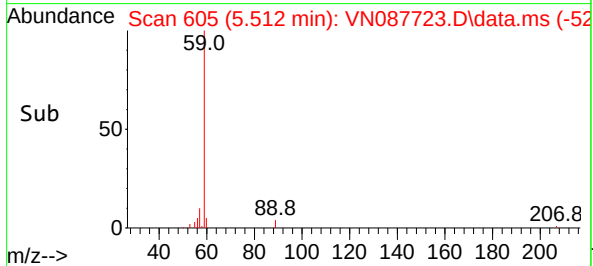
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 59 Resp: 6206  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

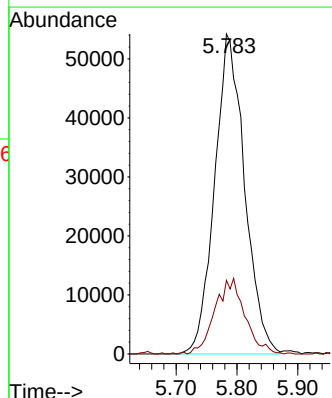
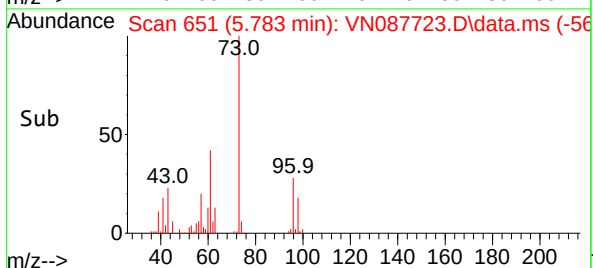
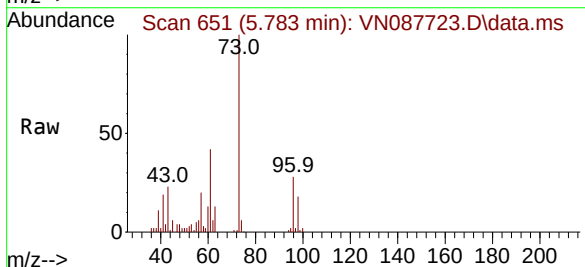
Manual Integrations  
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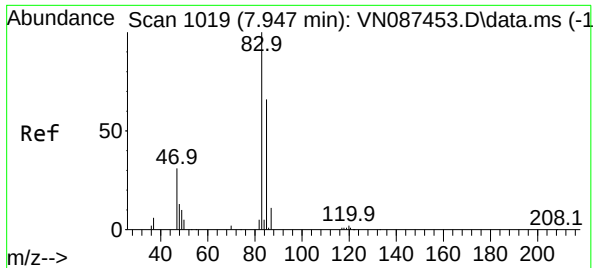
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#24  
Methyl tert-Butyl Ether  
Concen: 17.630 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

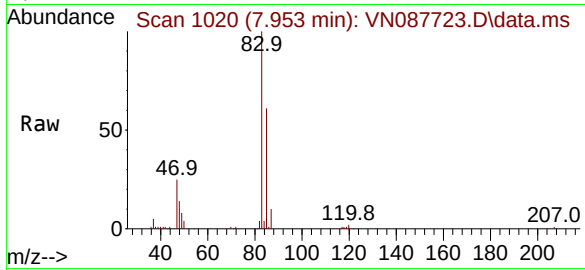
Tgt Ion: 73 Resp: 185284  
Ion Ratio Lower Upper  
73 100  
43 14.4 19.9 29.9#





#25  
Chloroform  
Concen: 19.618 ug/l  
RT: 7.953 min Scan# 1020  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

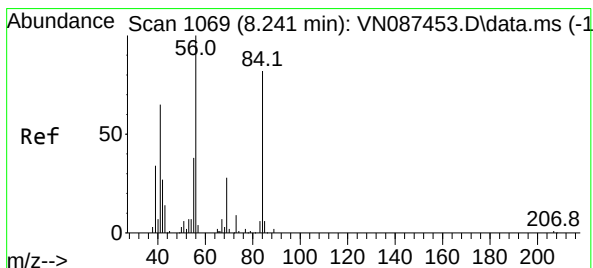
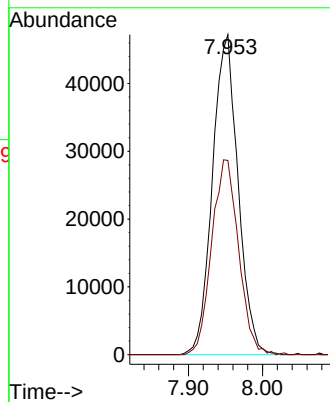
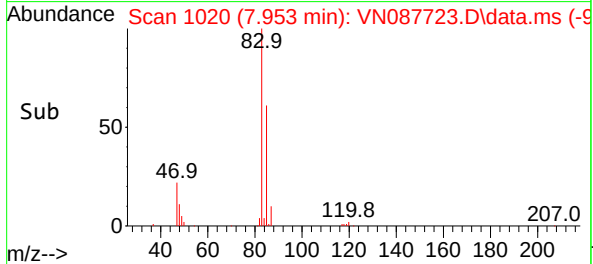
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 83 Resp: 113358  
Ion Ratio Lower Upper  
83 100  
85 60.7 52.6 78.8

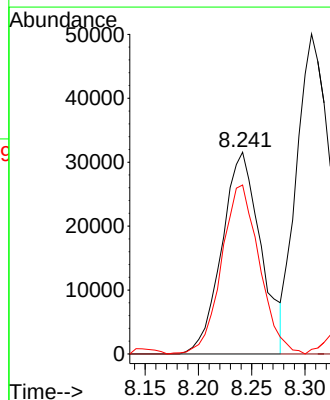
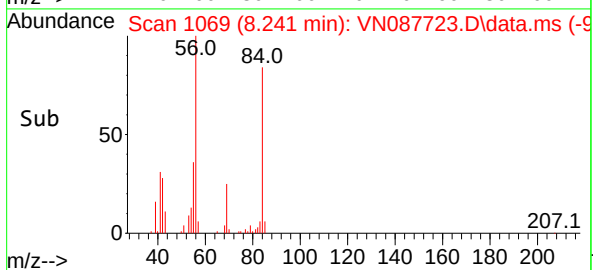
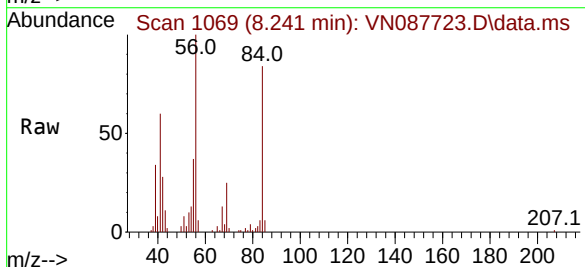
Manual Integrations  
APPROVED

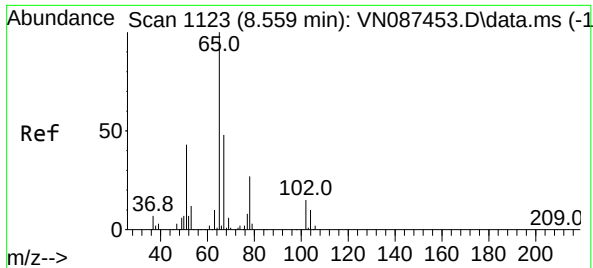
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#26  
Cyclohexane  
Concen: 18.032 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

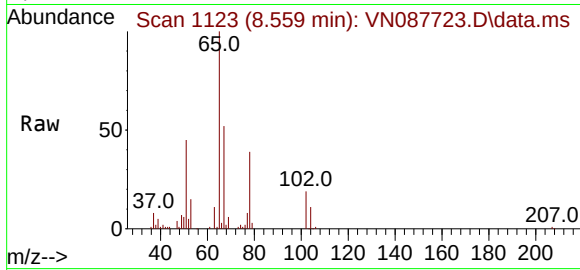
Tgt Ion: 56 Resp: 79919  
Ion Ratio Lower Upper  
56 100  
89 0.0 2.3 3.5#  
84 81.5 67.0 100.4





#27  
1,2-Dichloroethane-d4  
Concen: 27.174 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

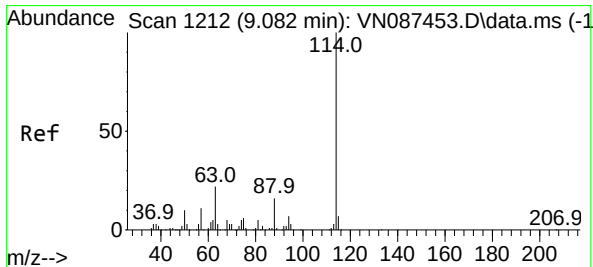
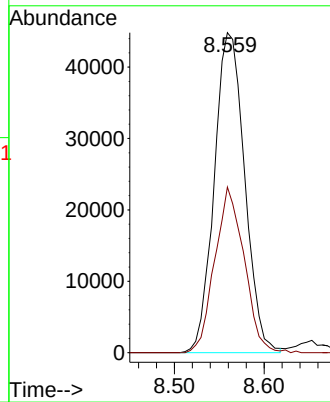
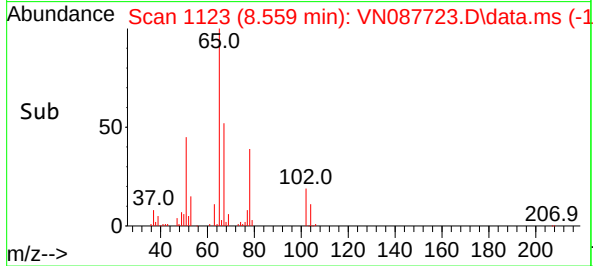
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 65 Resp: 10554  
Ion Ratio Lower Upper  
65 100  
67 49.8 40.8 61.2

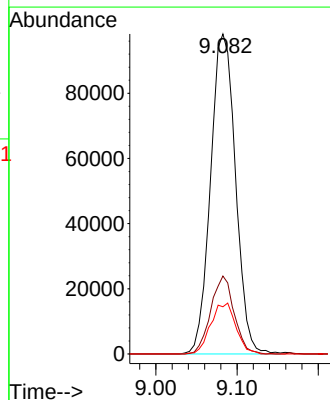
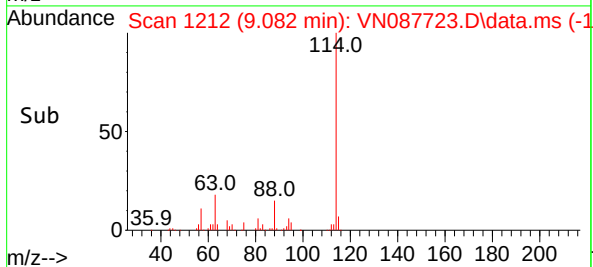
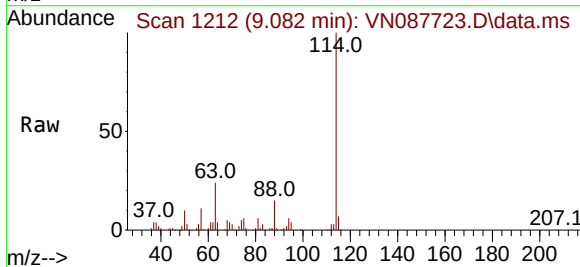
Manual Integrations  
APPROVED

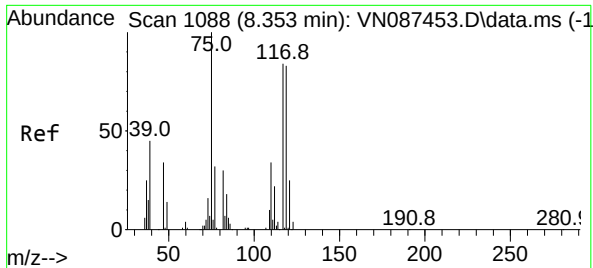
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:114 Resp: 209761  
Ion Ratio Lower Upper  
114 100  
63 22.8 18.9 28.3  
88 16.0 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.981 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

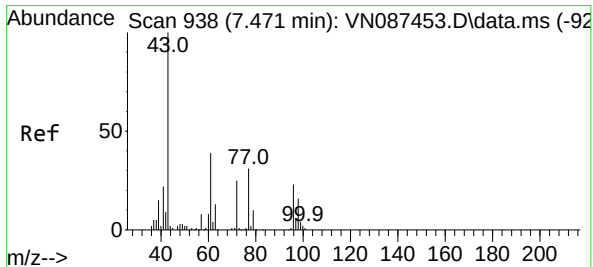
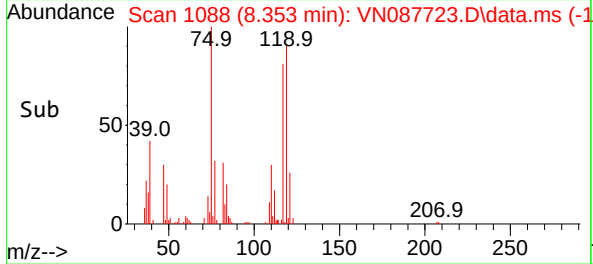
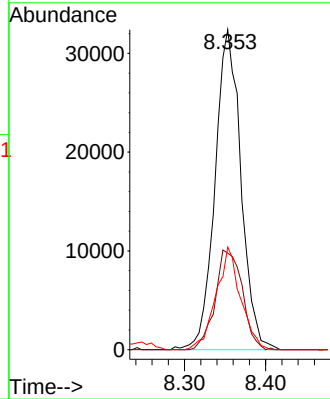
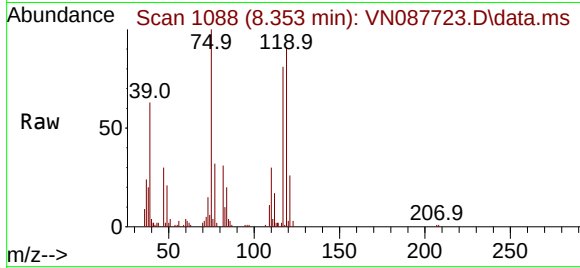
VSTDCCC020EC

|             |               |
|-------------|---------------|
| Tgt Ion: 75 | Resp: 7178    |
| Ion Ratio   | Lower Upper   |
| 75          | 100           |
| 110         | 32.5 0.0 65.8 |
| 77          | 30.4 0.0 63.6 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 99.616 ug/l

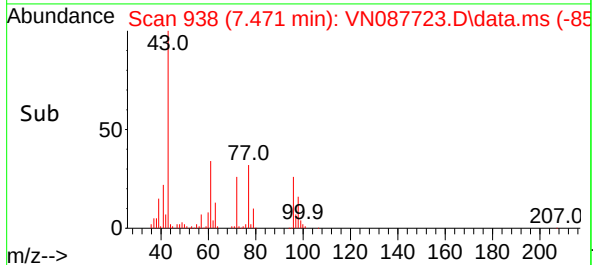
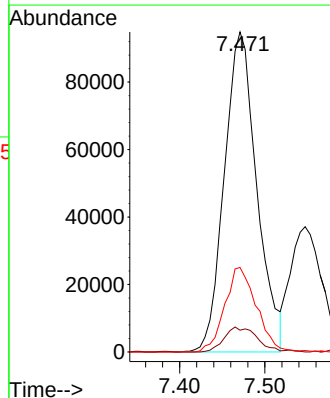
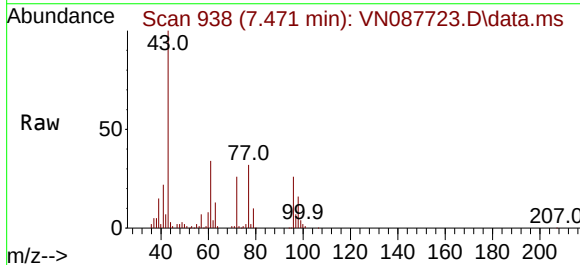
RT: 7.471 min Scan# 938

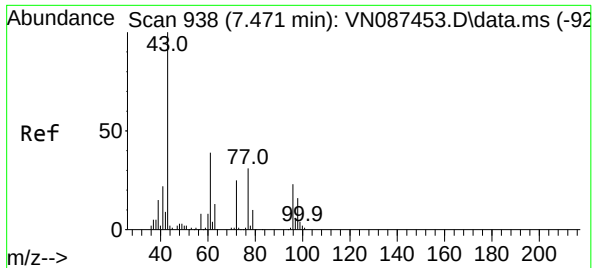
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 251215   |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 57          | 4.1 6.6 9.8    |
| 72          | 25.8 19.7 29.5 |





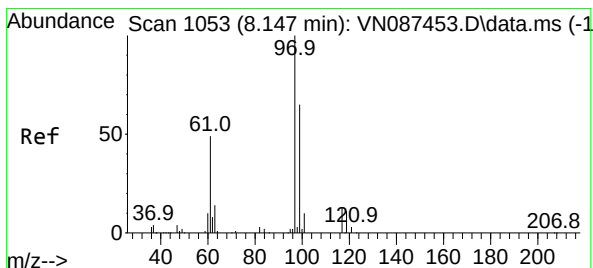
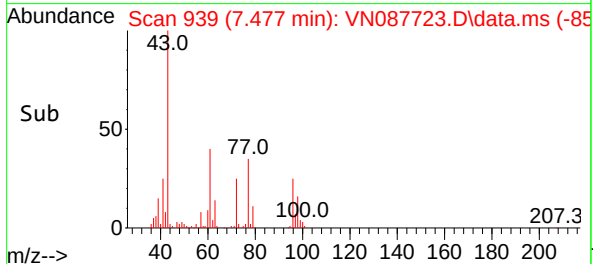
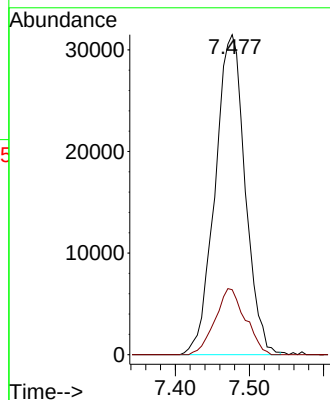
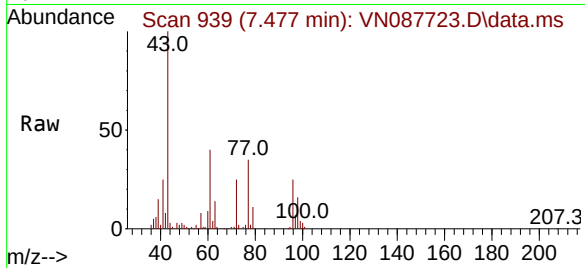
#31  
2,2-Dichloropropane  
Concen: 20.121 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 77 Resp: 8878  
Ion Ratio Lower Upper  
77 100  
97 20.7 16.7 25.1

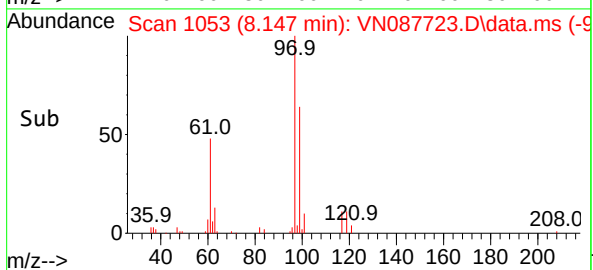
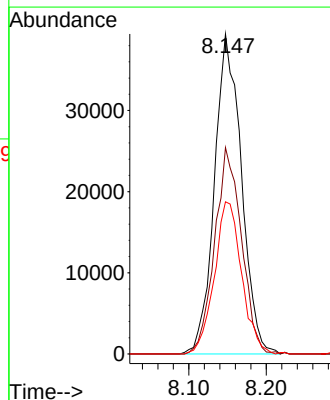
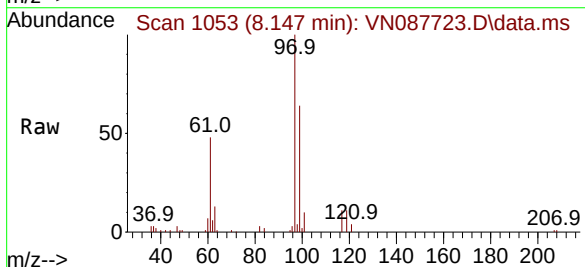
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

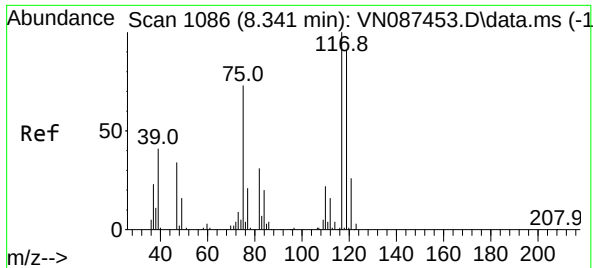


#32  
1,1,1-Trichloroethane  
Concen: 21.850 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 97 Resp: 95339  
Ion Ratio Lower Upper  
97 100  
99 63.9 53.0 79.6  
61 48.1 40.6 61.0

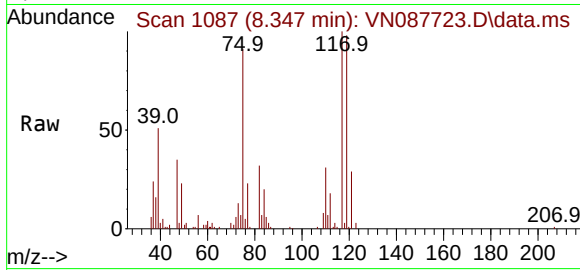






#33  
Carbon Tetrachloride  
Concen: 21.287 ug/l  
RT: 8.347 min Scan# 1086  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

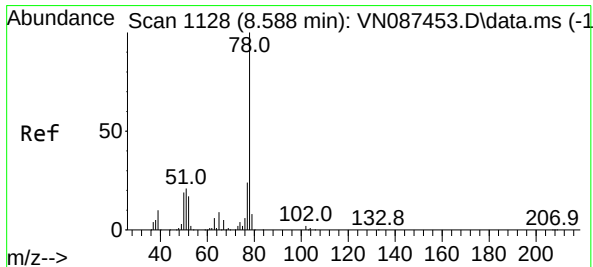
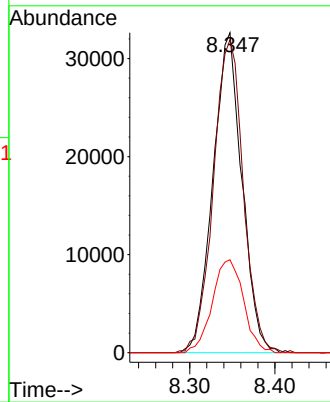
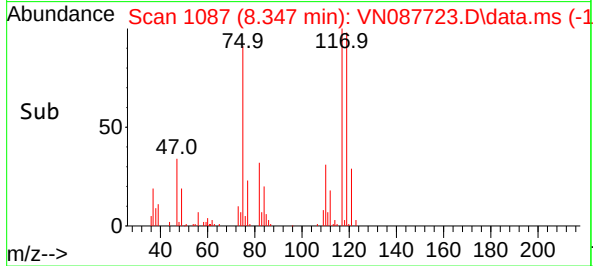
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 117 Resp: 7716  
Ion Ratio Lower Upper  
117 100  
119 97.2 73.4 110.0  
121 29.1 21.1 31.7

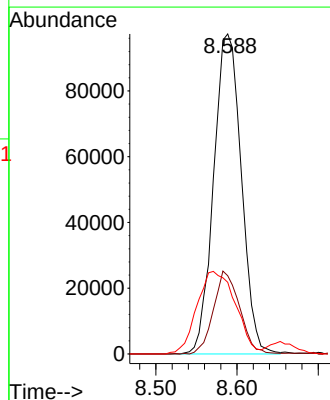
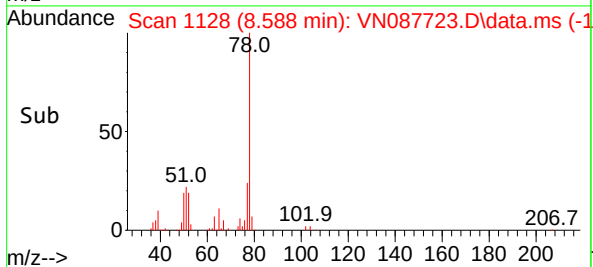
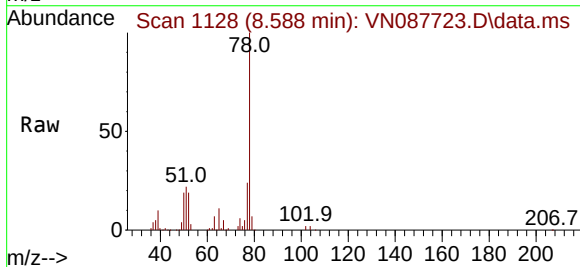
Manual Integrations  
APPROVED

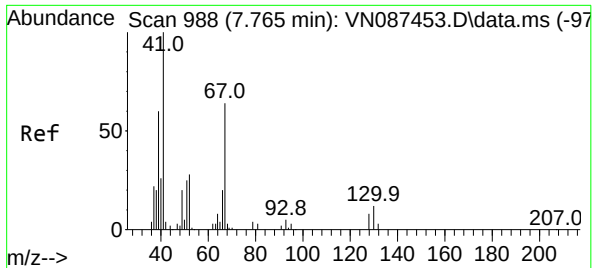
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 21.380 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

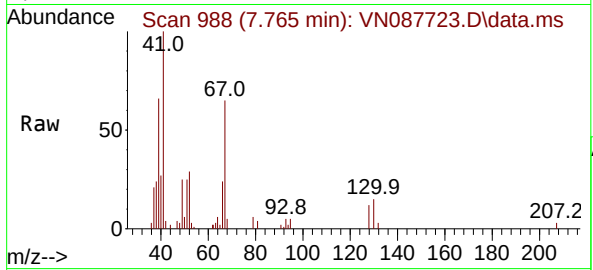
Tgt Ion: 78 Resp: 230901  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 20.5 16.9 25.3





#35  
Methacrylonitrile  
Concen: 18.727 ug/l  
RT: 7.765 min Scan# 988  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

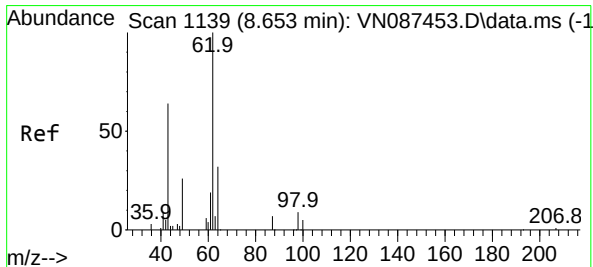
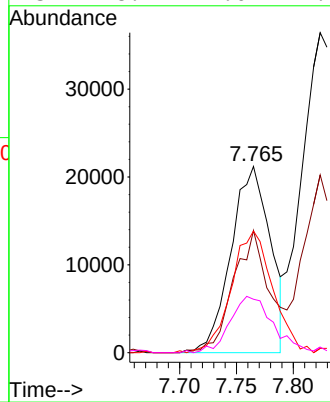
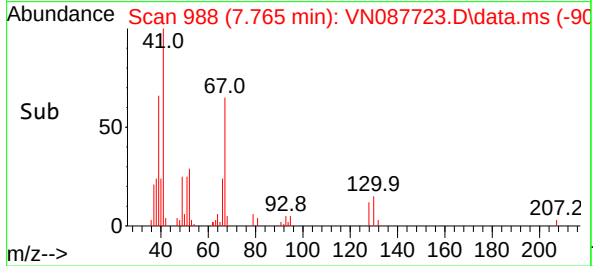
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 41 Resp: 50964  
Ion Ratio Lower Upper  
41 100  
39 65.6 30.1 90.5  
67 64.2 32.0 96.2  
52 28.7 14.0 42.0

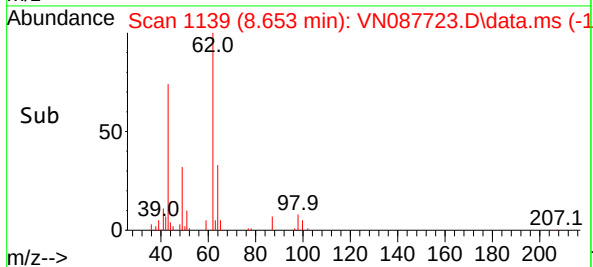
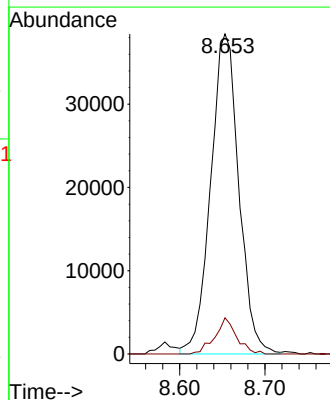
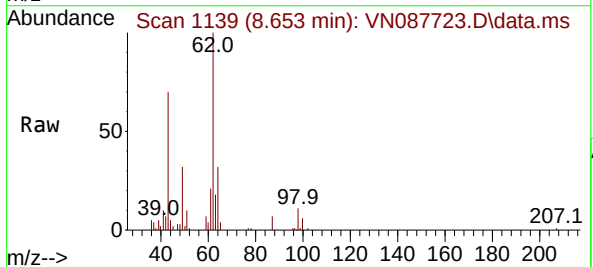
Manual Integrations  
APPROVED

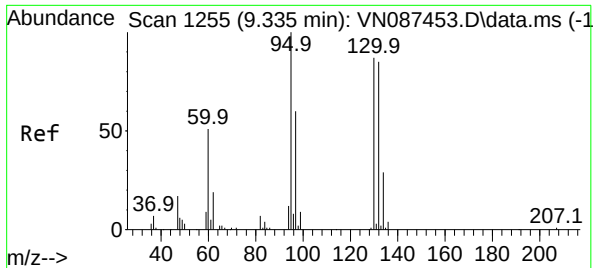
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#36  
1,2-Dichloroethane  
Concen: 20.210 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 62 Resp: 88217  
Ion Ratio Lower Upper  
62 100  
98 8.7 6.6 9.8





#37

Trichloroethene

Concen: 22.421 ug/l

RT: 9.330 min Scan# 1255

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:130 Resp: 53338

Ion Ratio Lower Upper

130 100

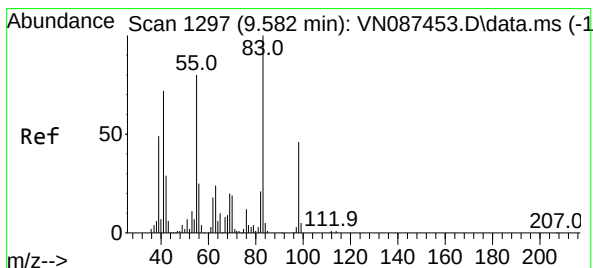
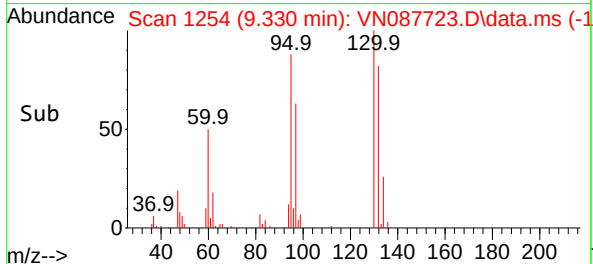
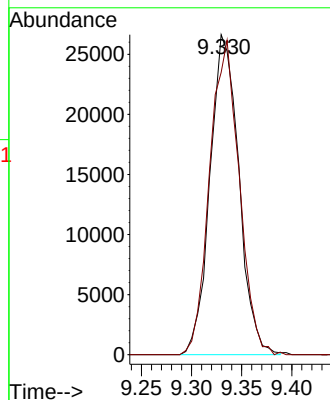
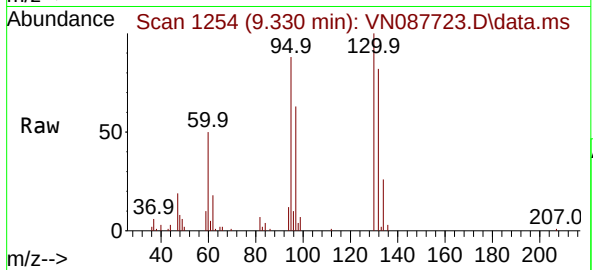
95 88.2 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#38

Methylcyclohexane

Concen: 18.355 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

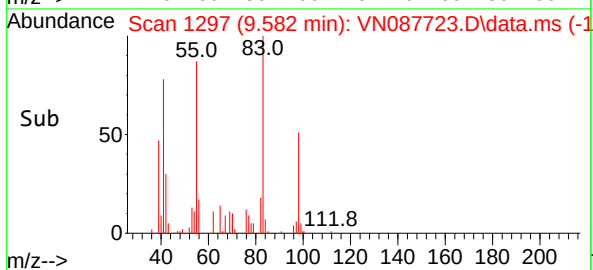
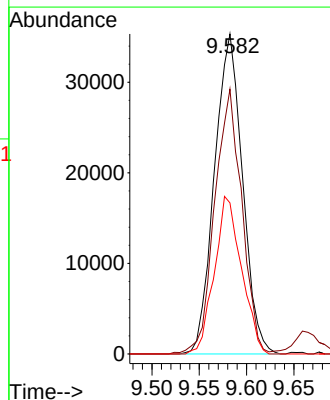
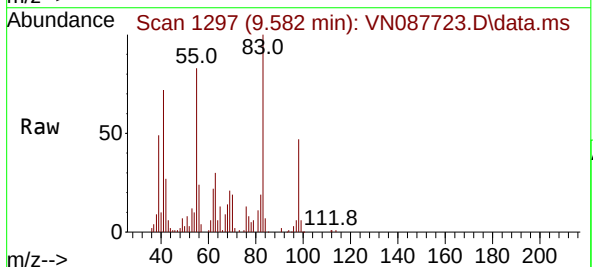
Tgt Ion: 83 Resp: 72850

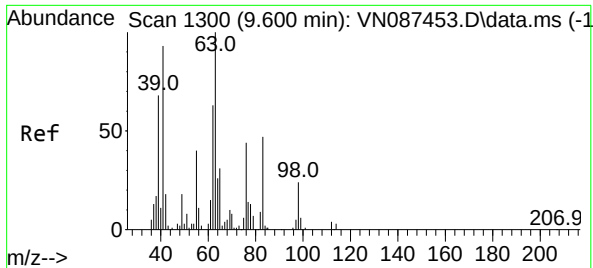
Ion Ratio Lower Upper

83 100

55 79.9 41.2 123.6

98 47.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.735 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 6018

Ion Ratio Lower Upper

63 100

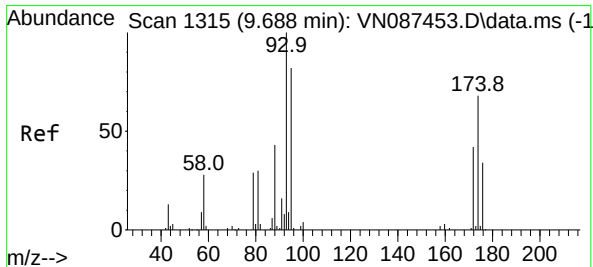
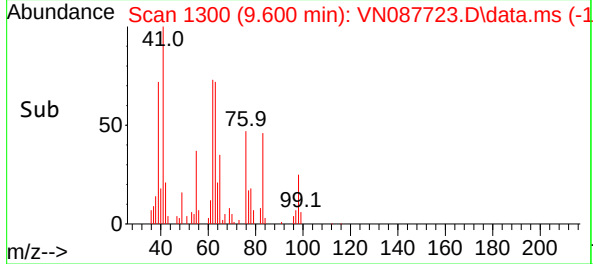
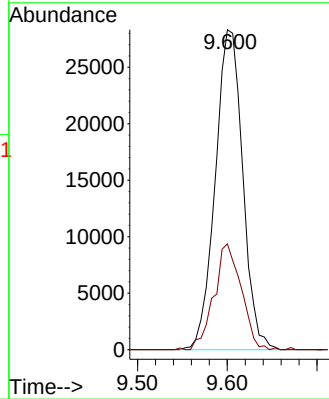
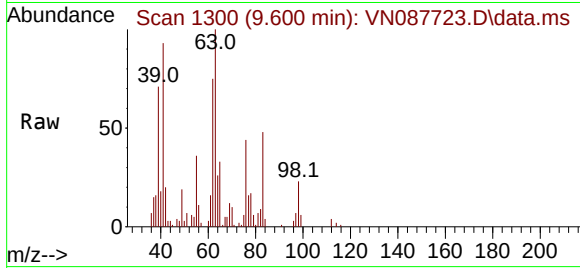
65 33.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 21.868 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

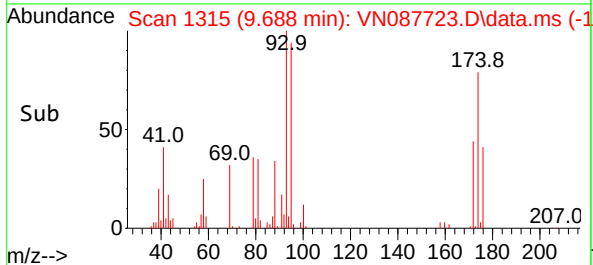
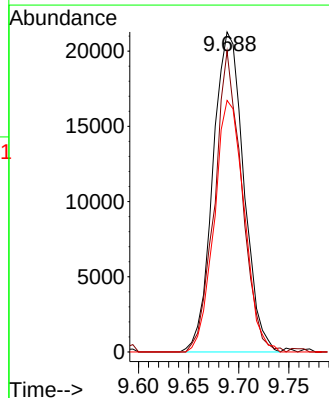
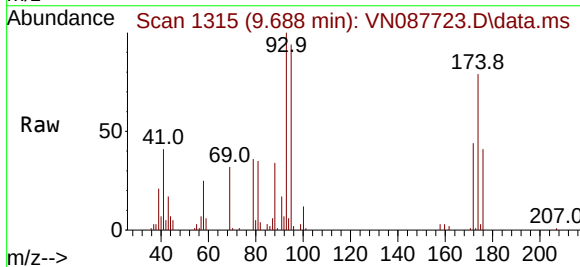
Tgt Ion: 93 Resp: 45432

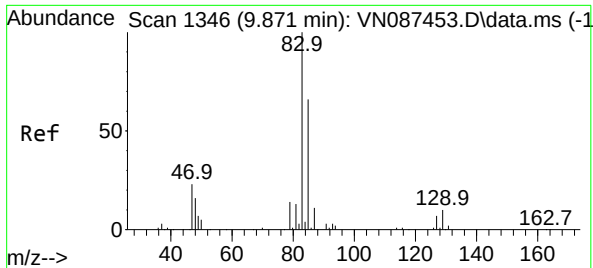
Ion Ratio Lower Upper

93 100

95 82.8 0.0 161.6

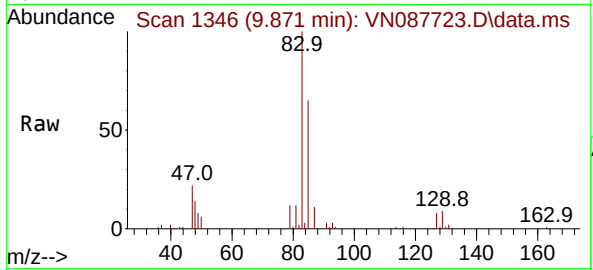
174 76.3 0.0 151.4





#41  
Bromodichloromethane  
Concen: 21.522 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

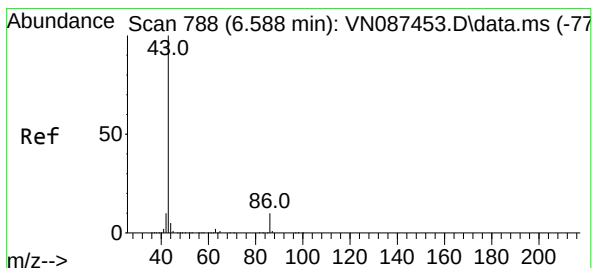
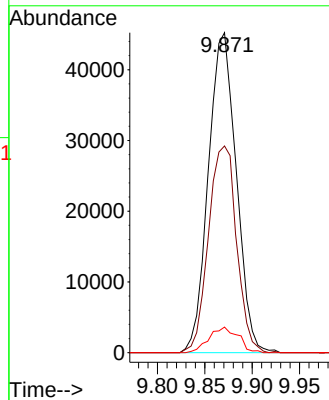
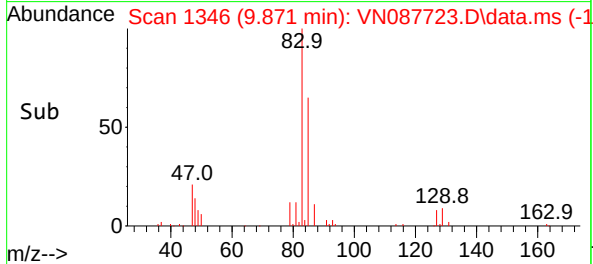
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 83 Resp: 92910  
Ion Ratio Lower Upper  
83 100  
85 64.6 52.9 79.3  
127 8.0 5.8 8.6

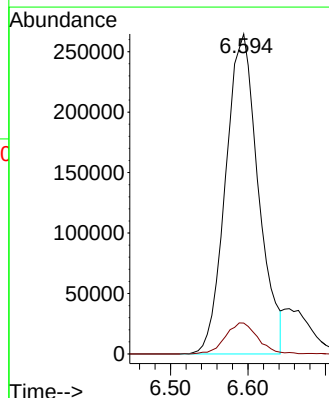
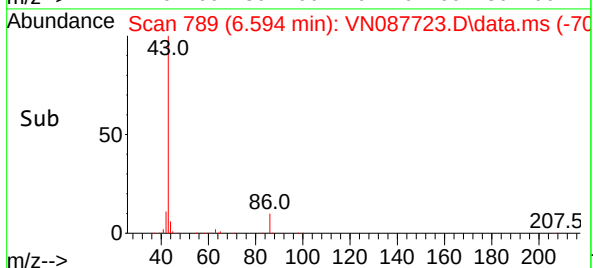
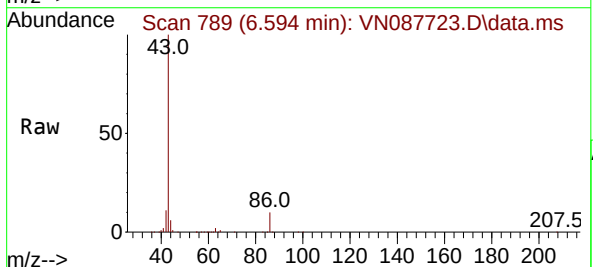
Manual Integrations  
APPROVED

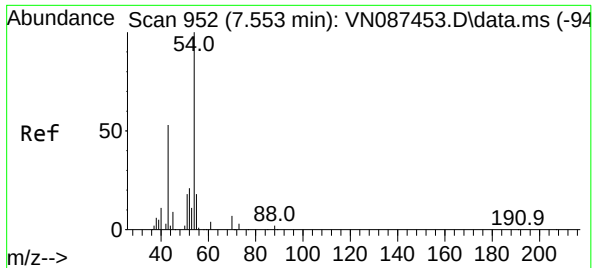
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 93.526 ug/l  
RT: 6.594 min Scan# 789  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 776716  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 19.896 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 9693

Ion Ratio Lower Upper

43 100

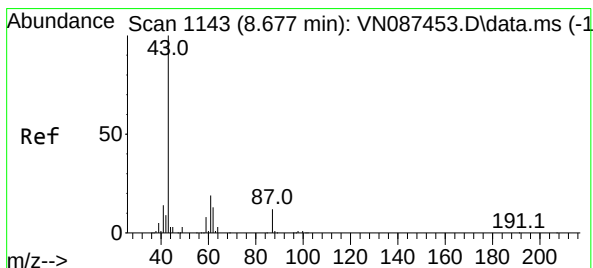
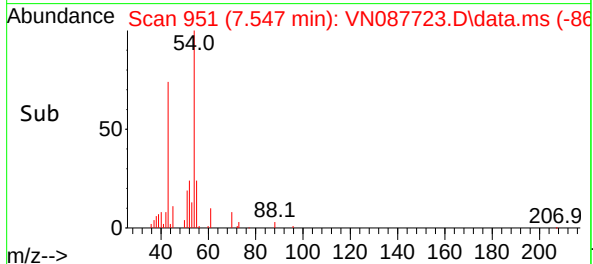
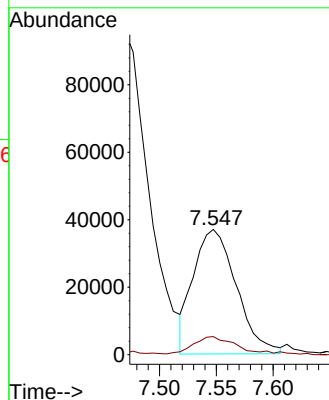
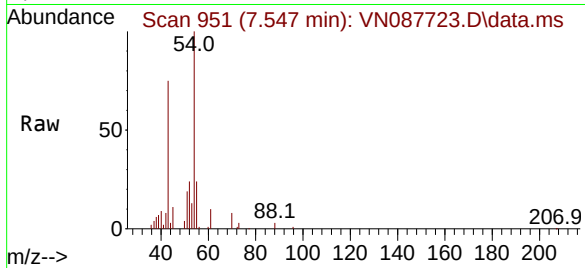
45 13.9 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 19.126 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087723.D

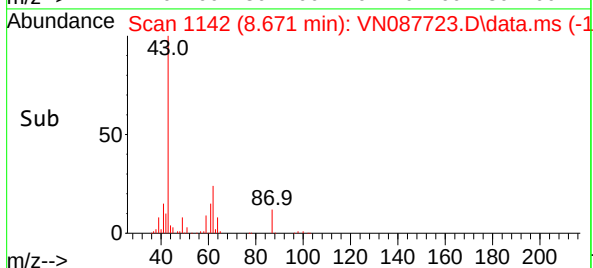
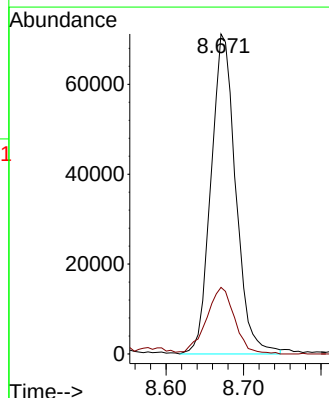
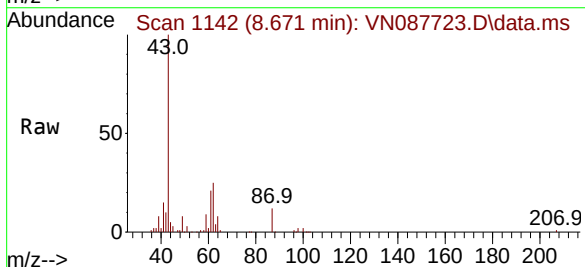
Acq: 04 Sep 2025 15:21

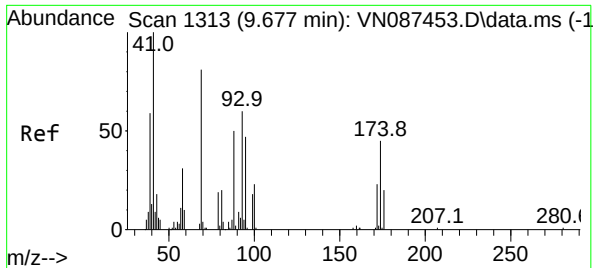
Tgt Ion: 43 Resp: 157951

Ion Ratio Lower Upper

43 100

61 23.0 18.6 28.0





#45

1,4-Dioxane

Concen: 344.161 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

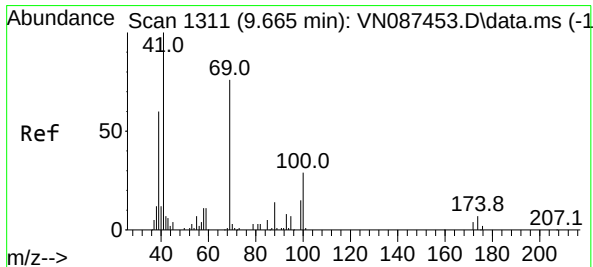
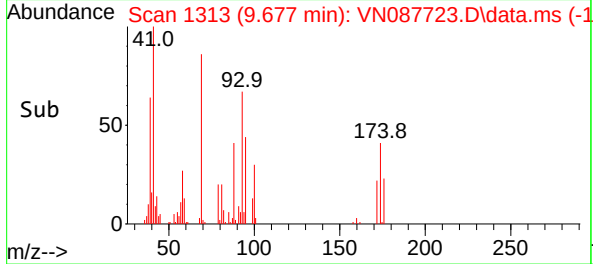
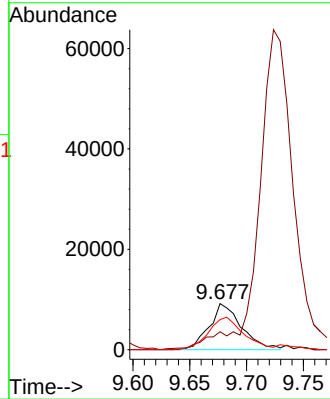
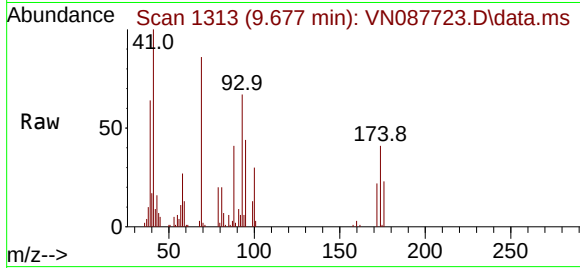
VSTDCCC020EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 18119 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 41.9  | 24.1  | 36.1  |
| 58        | 76.4  | 57.2  | 85.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 19.186 ug/l

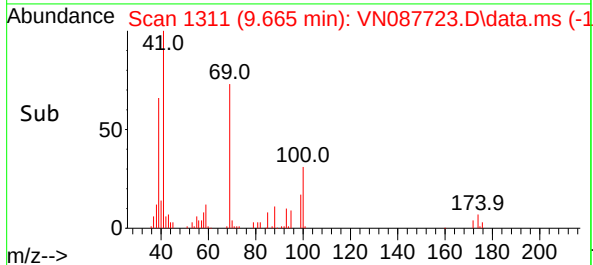
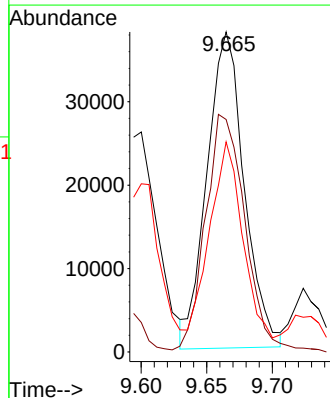
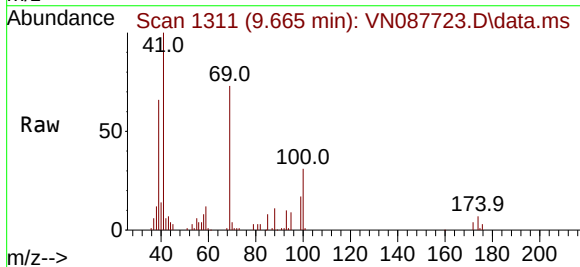
RT: 9.665 min Scan# 1311

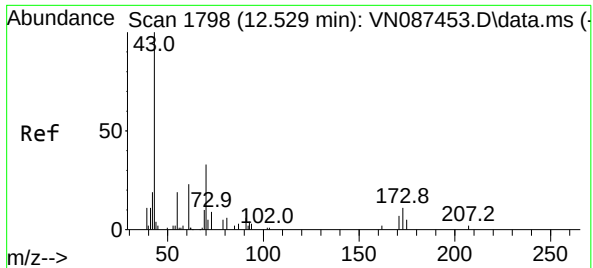
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 74792 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 69        | 75.4  | 37.1  | 111.5 |
| 39        | 64.2  | 30.7  | 92.1  |





#47

n-amy1 Acetate

Concen: 19.735 ug/l m

RT: 12.541 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 90034

Ion Ratio Lower Upper

43 100

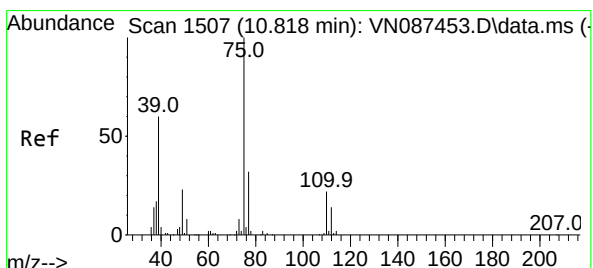
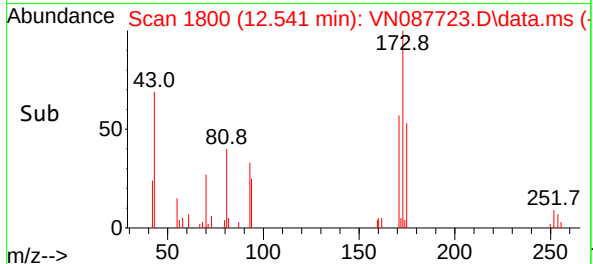
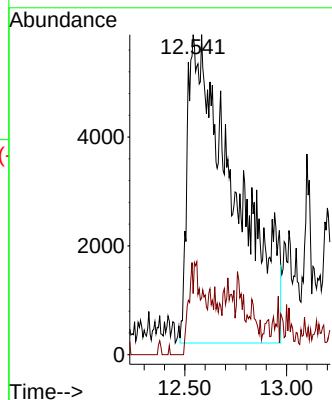
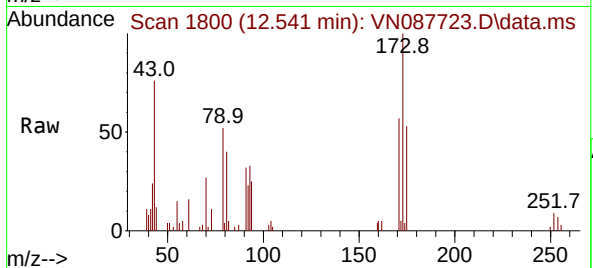
55 1.5 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 19.468 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087723.D

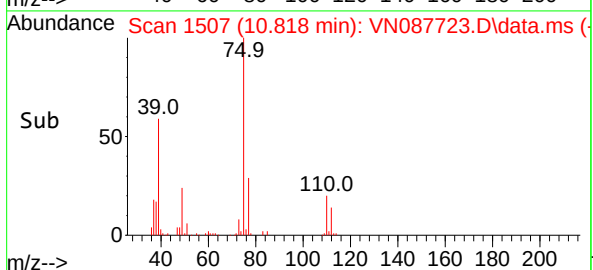
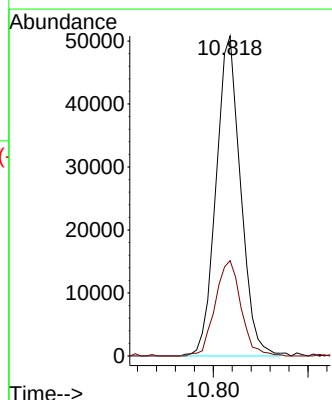
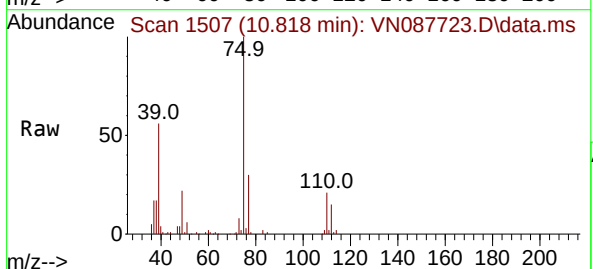
Acq: 04 Sep 2025 15:21

Tgt Ion: 75 Resp: 91435

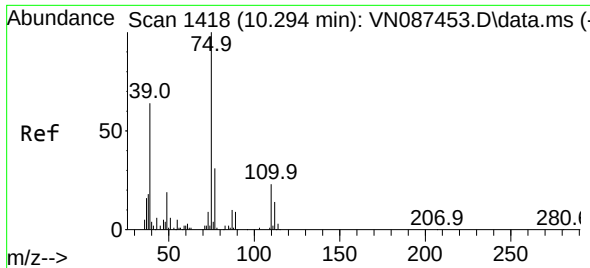
Ion Ratio Lower Upper

75 100

77 29.8 25.3 37.9







#49

cis-1,3-Dichloropropene

Concen: 20.047 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087723.D

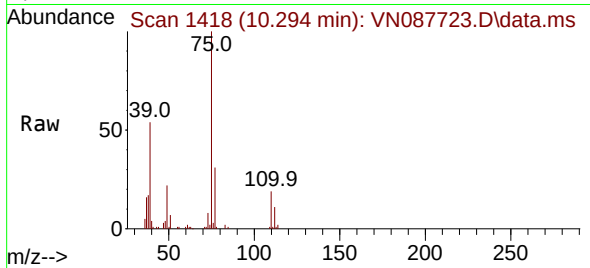
Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC



Tgt Ion: 75 Resp: 94752

Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

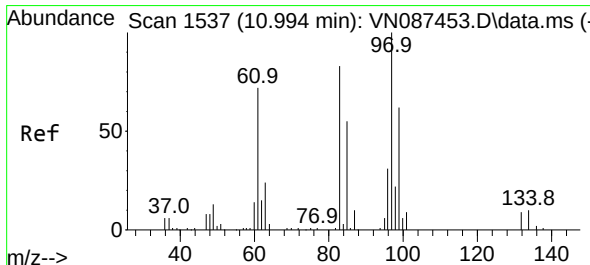
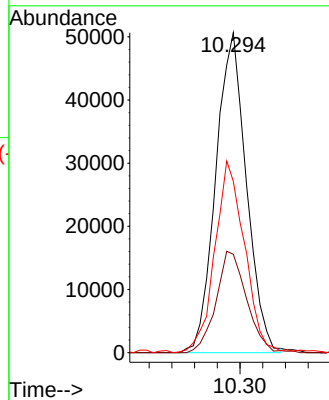
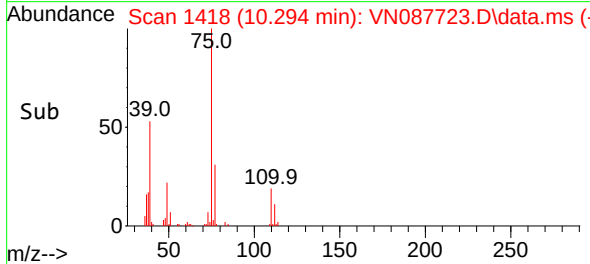
39 53.3 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

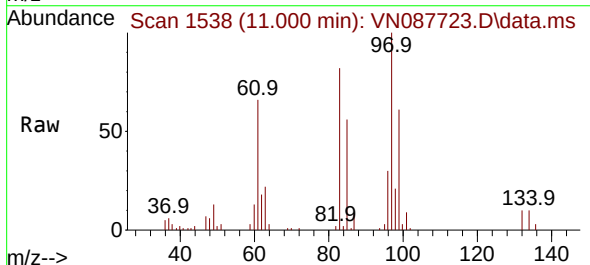
Concen: 22.387 ug/l

RT: 11.000 min Scan# 1538

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21



Tgt Ion: 97 Resp: 58762

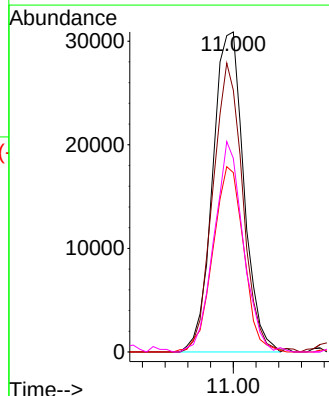
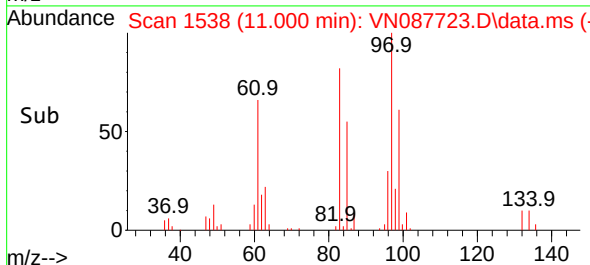
Ion Ratio Lower Upper

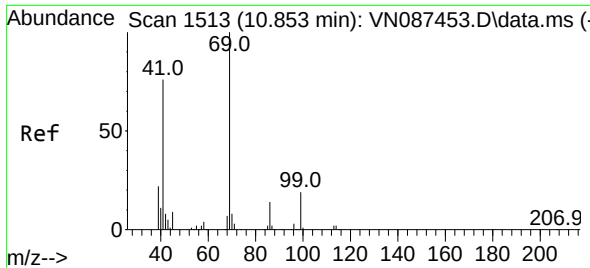
97 100

83 81.8 66.2 99.2

85 55.6 43.9 65.9

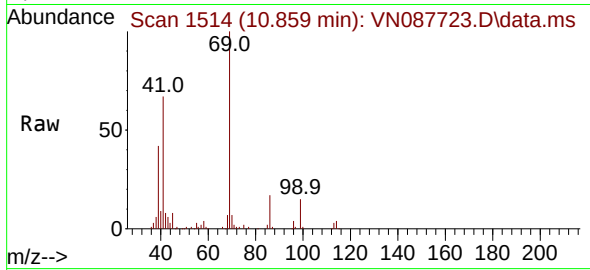
99 60.5 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 18.496 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

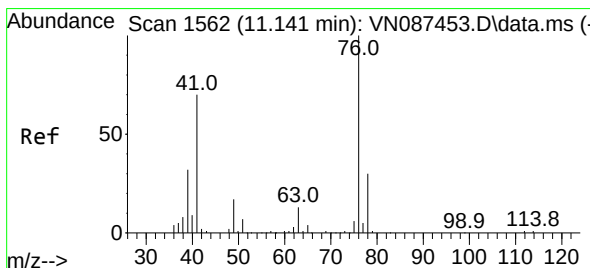
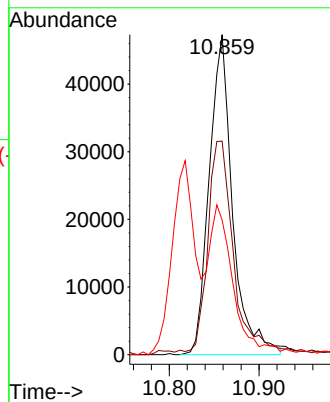
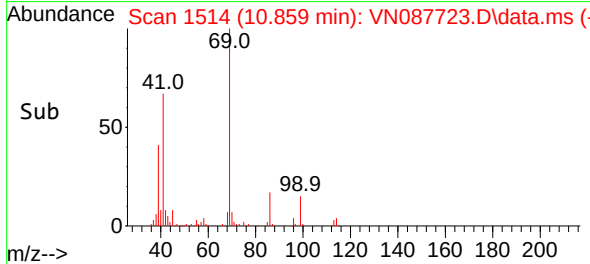
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 69 Resp: 8550  
Ion Ratio Lower Upper  
69 100  
41 65.3 38.0 114.1  
39 41.0 23.2 69.5

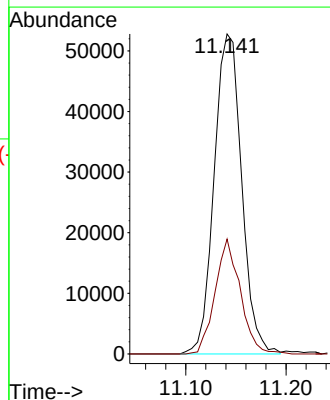
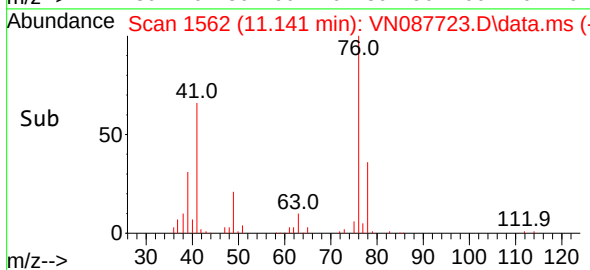
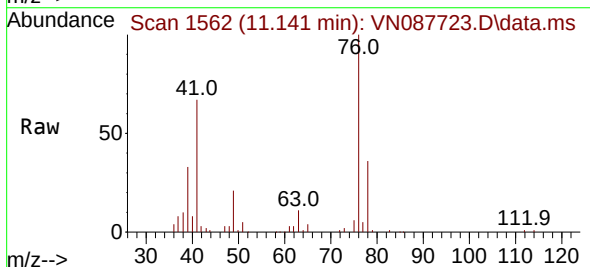
Manual Integrations  
APPROVED

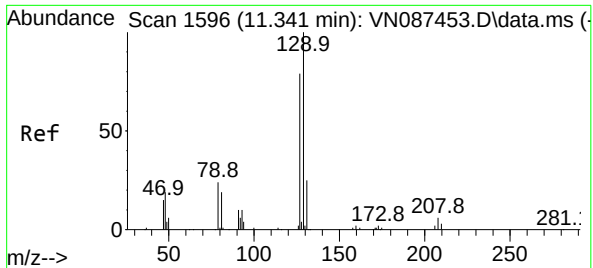
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 21.281 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

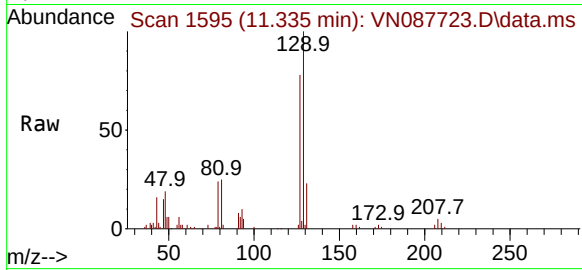
Tgt Ion: 76 Resp: 100640  
Ion Ratio Lower Upper  
76 100  
78 32.9 0.0 63.0





#53  
Dibromochloromethane  
Concen: 22.199 ug/l  
RT: 11.335 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

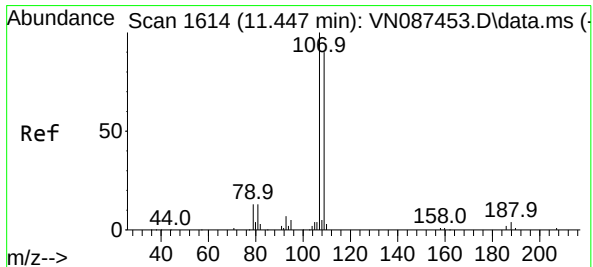
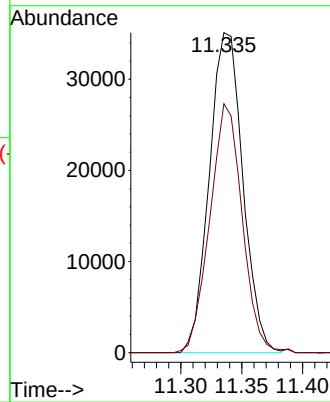
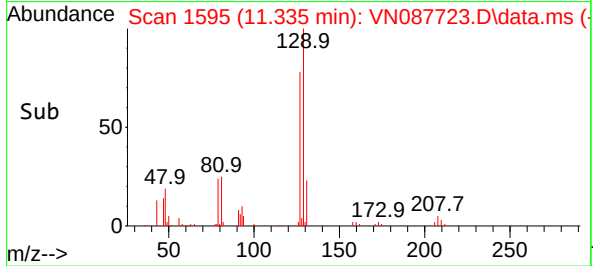
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



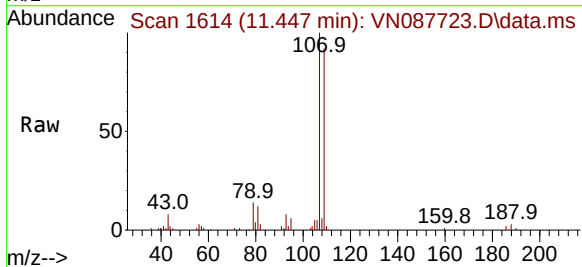
Tgt Ion:129 Resp: 6729  
Ion Ratio Lower Upper  
129 100  
127 74.7 39.1 117.3

Manual Integrations  
APPROVED

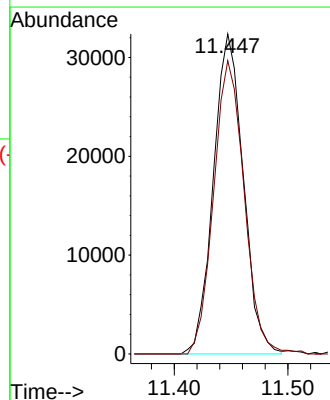
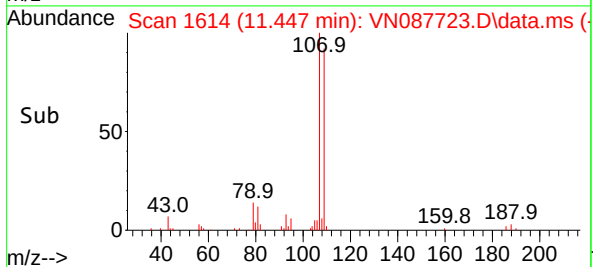
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

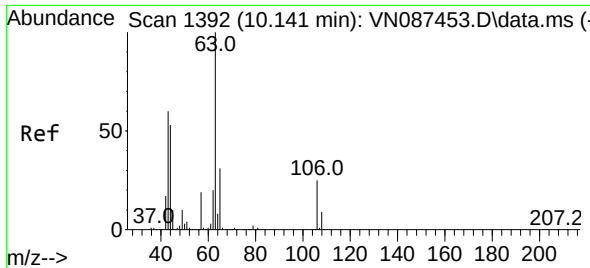


#54  
1,2-Dibromoethane  
Concen: 21.233 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



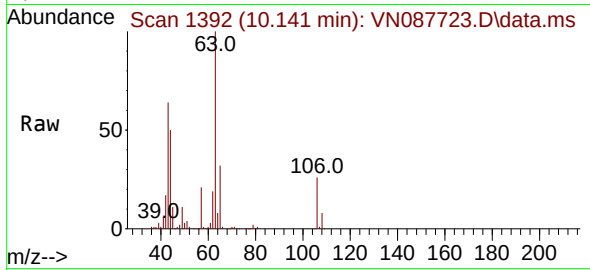
Tgt Ion:107 Resp: 59165  
Ion Ratio Lower Upper  
107 100  
109 93.7 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 93.240 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

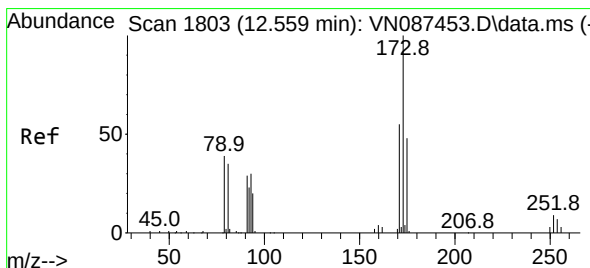
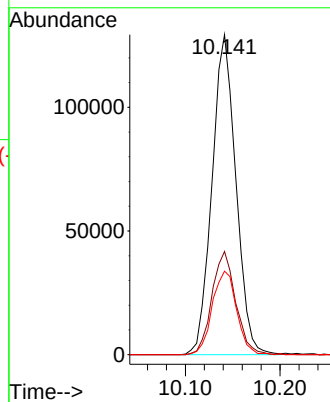
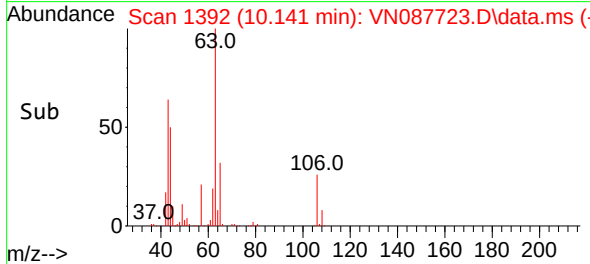
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 63 Resp: 226909  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 26.5 20.7 31.1

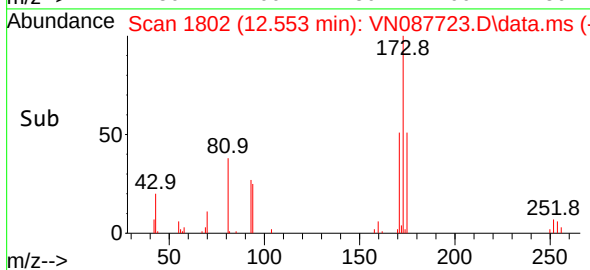
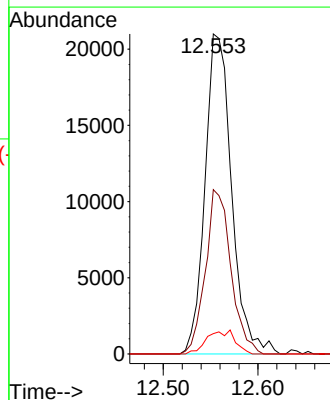
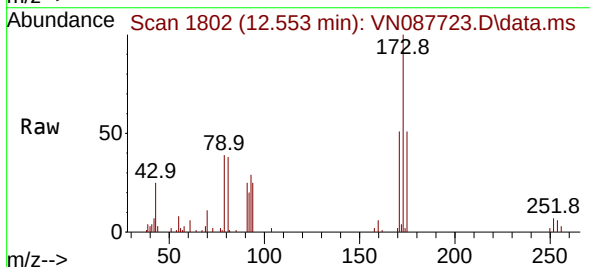
Manual Integrations  
APPROVED

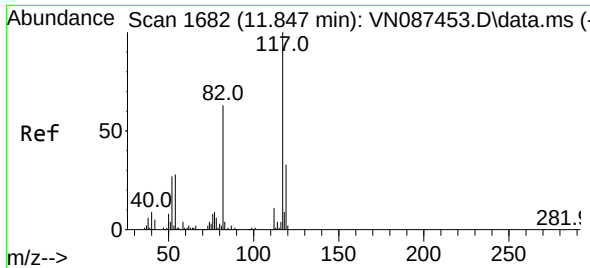
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 20.416 ug/l  
RT: 12.553 min Scan# 1802  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

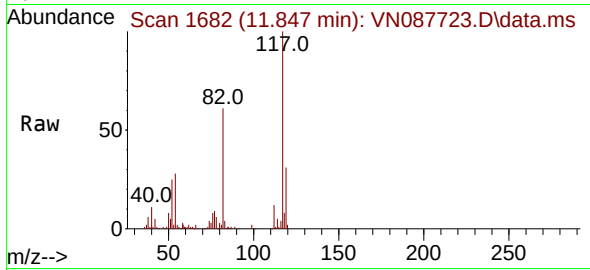
Tgt Ion:173 Resp: 40935  
Ion Ratio Lower Upper  
173 100  
175 49.2 38.8 58.2  
254 5.3 3.9 5.9





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

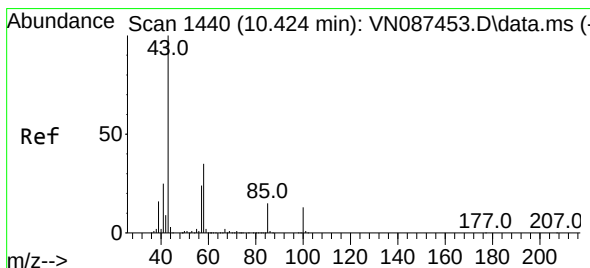
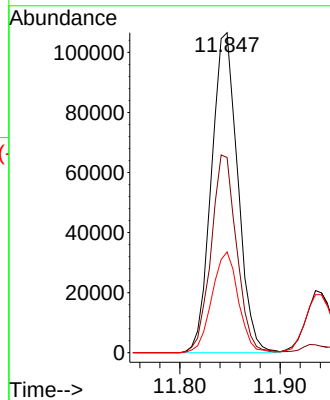
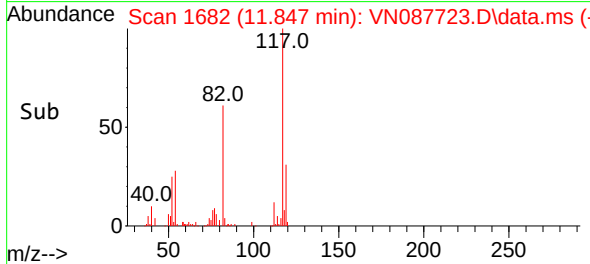
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 117 Resp: 194708  
Ion Ratio Lower Upper  
117 100  
82 60.0 49.2 73.8  
119 31.4 25.7 38.5

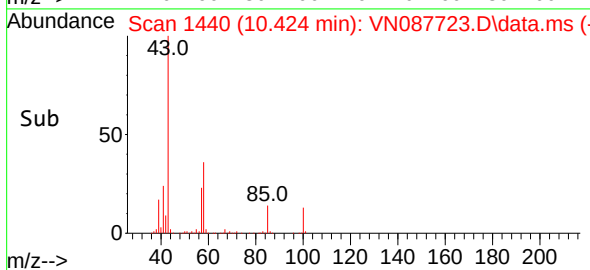
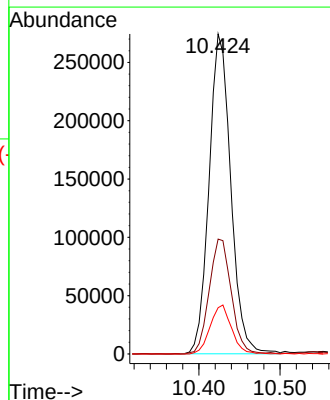
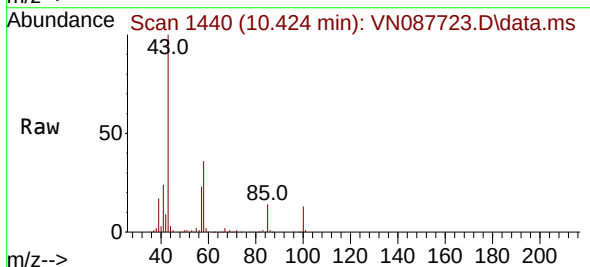
Manual Integrations  
APPROVED

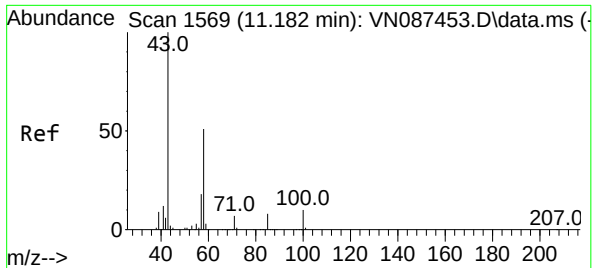
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 101.757 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

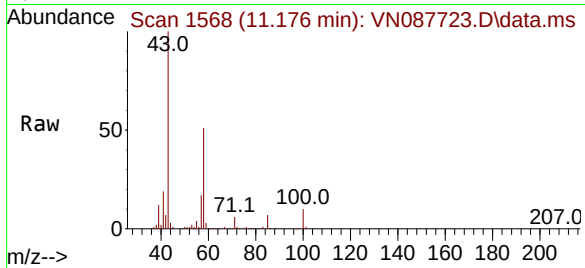
Tgt Ion: 43 Resp: 509673  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 14.9 12.7 19.1





#59  
2-Hexanone  
Concen: 94.645 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

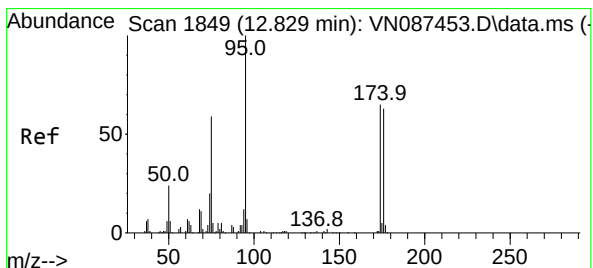
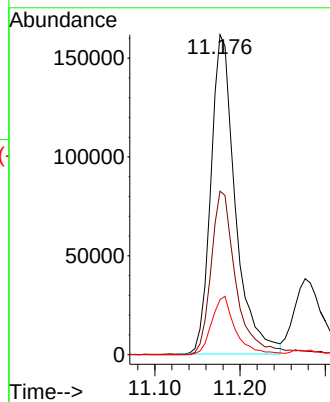
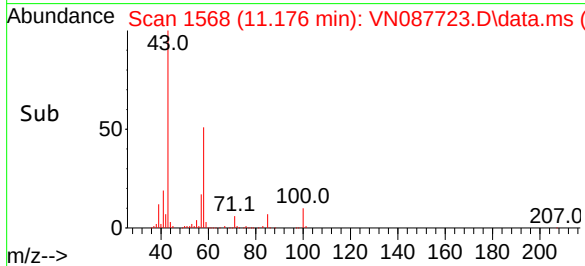
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 43 Resp: 32209  
Ion Ratio Lower Upper  
43 100  
58 52.7 41.0 61.6  
57 17.7 14.6 21.8

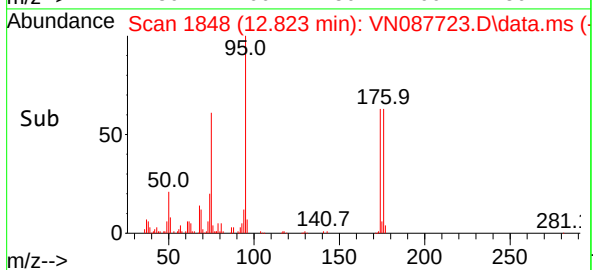
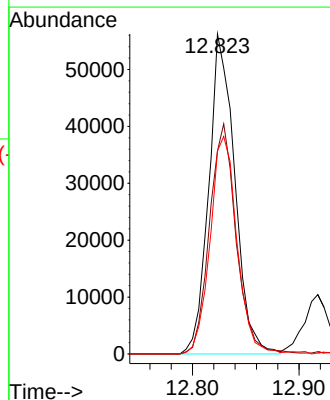
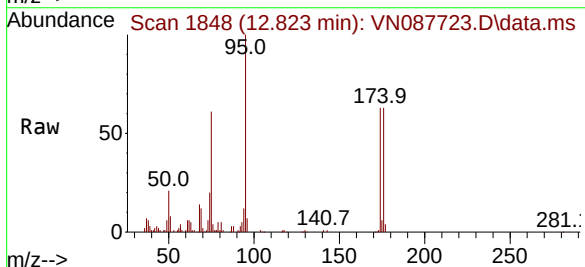
Manual Integrations  
APPROVED

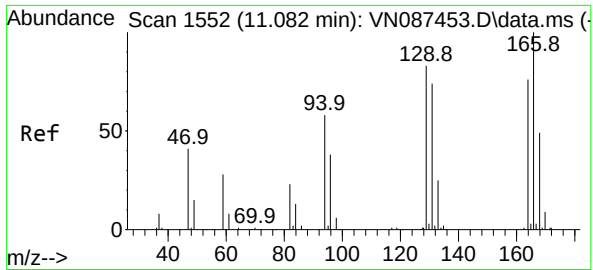
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#60  
4-Bromofluorobenzene  
Concen: 28.430 ug/l  
RT: 12.823 min Scan# 1848  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

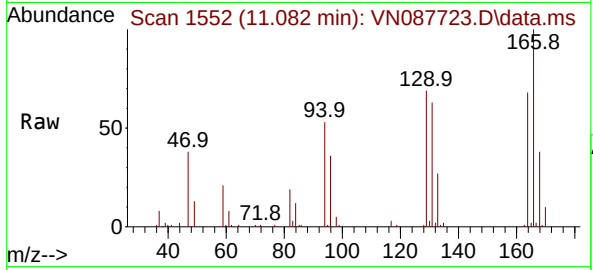
Tgt Ion: 95 Resp: 95262  
Ion Ratio Lower Upper  
95 100  
174 73.7 52.3 78.5  
176 70.1 49.8 74.8





#61  
Tetrachloroethene  
Concen: 22.426 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

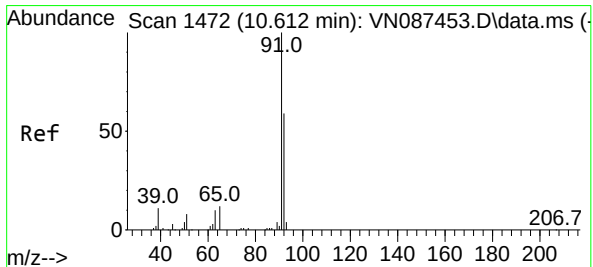
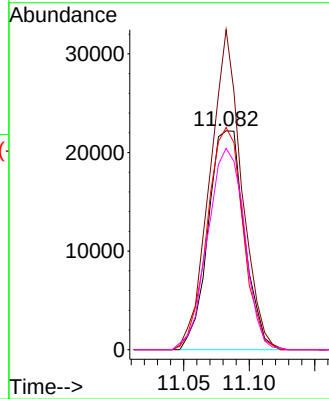
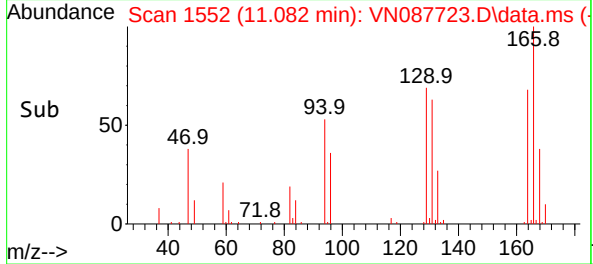
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



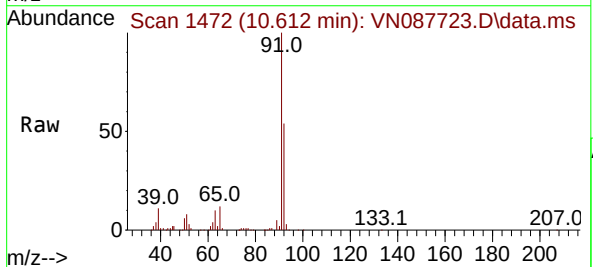
Tgt Ion:164 Resp: 42539  
Ion Ratio Lower Upper  
164 100  
166 145.4 105.4 158.0  
129 101.5 87.7 131.5  
131 91.2 77.7 116.5

Manual Integrations  
APPROVED

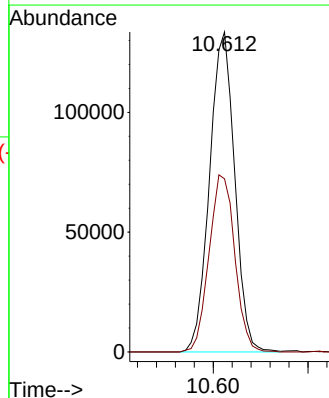
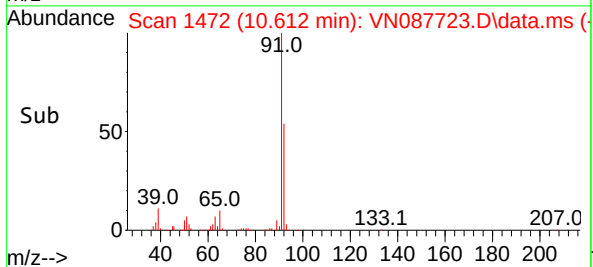
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

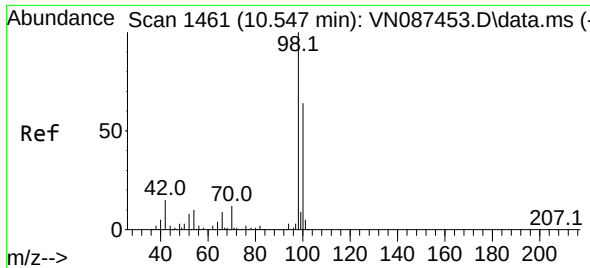


#62  
Toluene  
Concen: 20.471 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



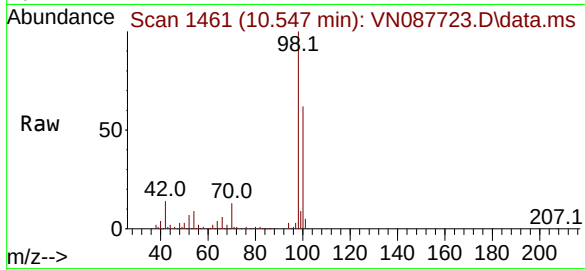
Tgt Ion: 91 Resp: 246003  
Ion Ratio Lower Upper  
91 100  
92 56.7 45.8 68.6





#63  
Toluene-d8  
Concen: 30.176 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

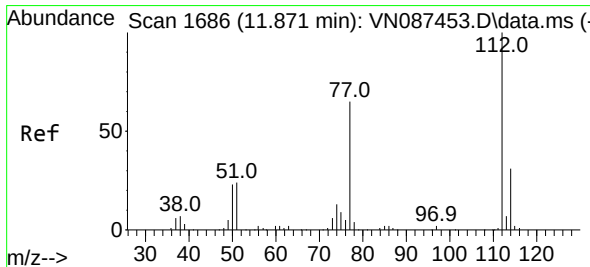
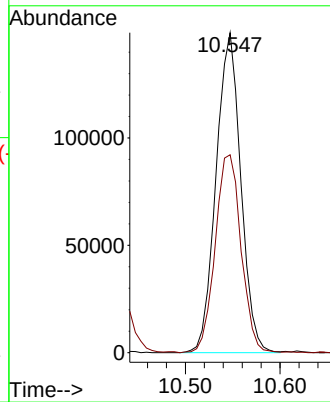
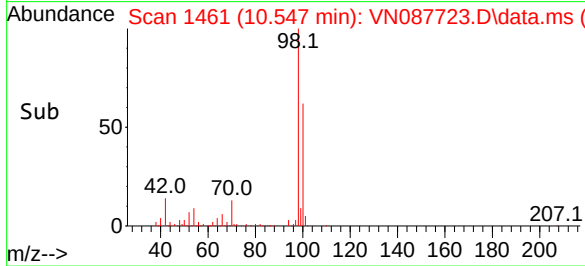
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 98 Resp: 27034  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.5 75.7

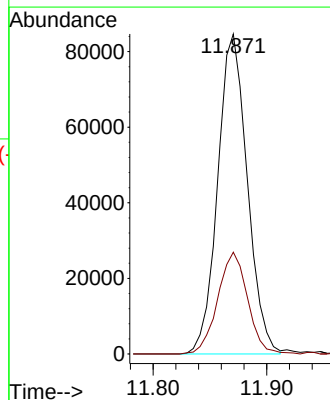
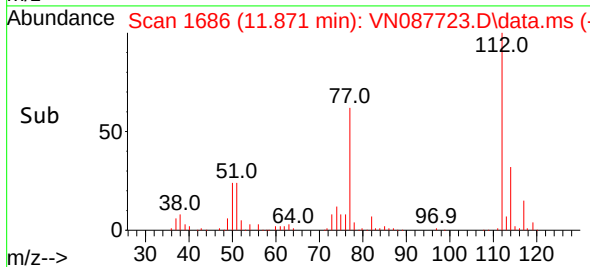
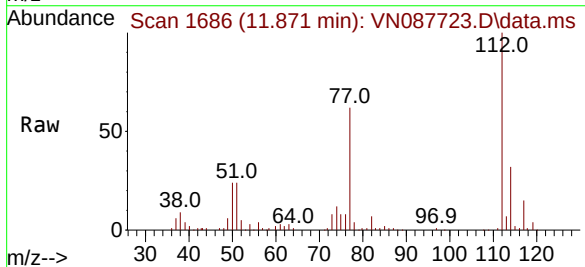
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

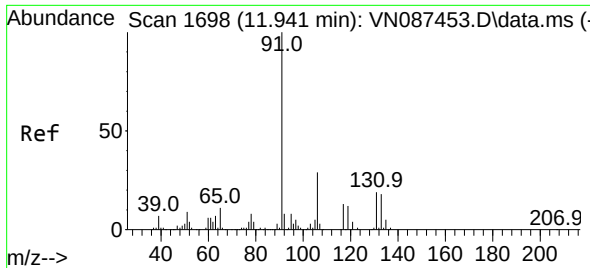


#64  
Chlorobenzene  
Concen: 20.730 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:112 Resp: 153070  
Ion Ratio Lower Upper  
112 100  
114 31.8 24.7 37.1

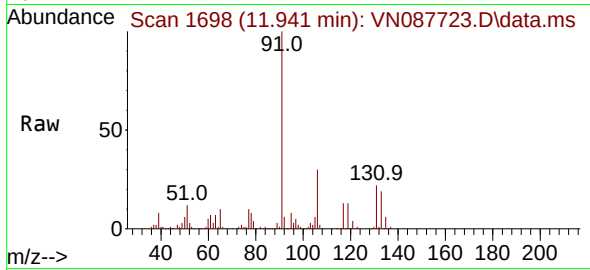






#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.728 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

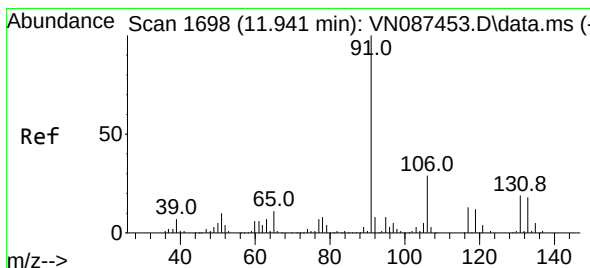
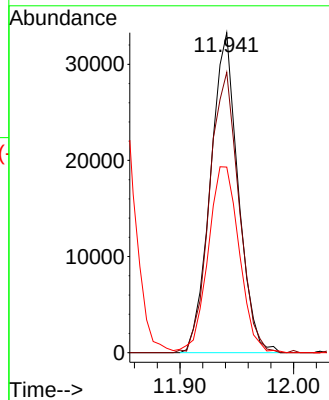
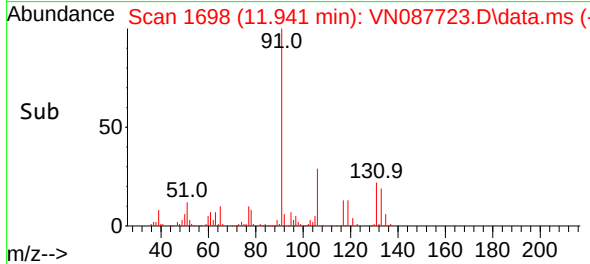
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion:131 Resp: 56409  
Ion Ratio Lower Upper  
131 100  
133 92.5 0.0 189.8  
119 64.9 0.0 133.2

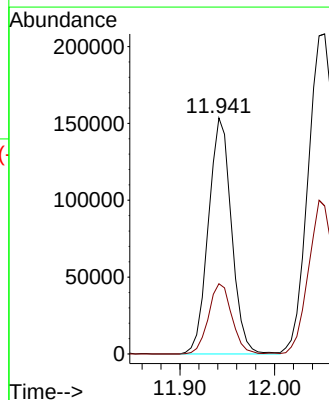
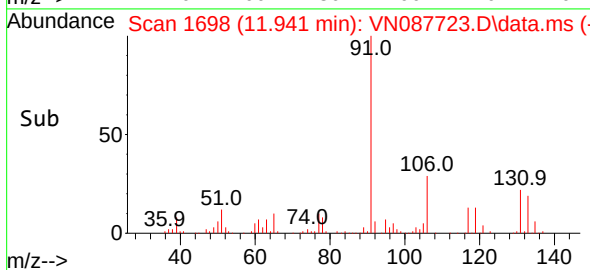
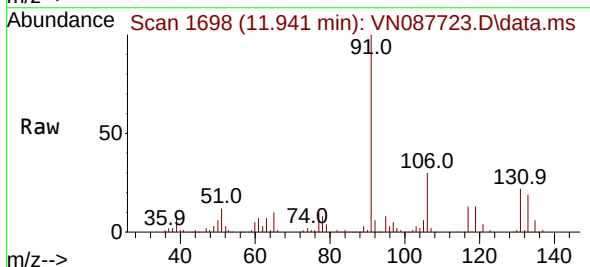
Manual Integrations  
APPROVED

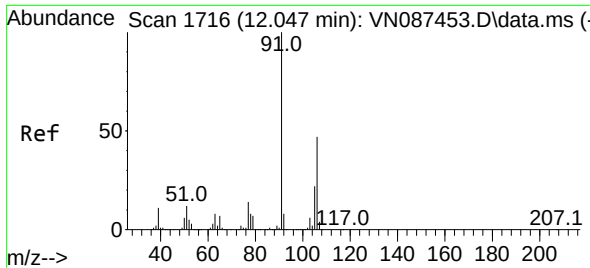
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66  
Ethyl Benzene  
Concen: 19.489 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

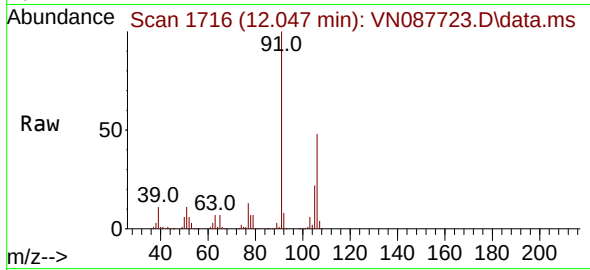
Tgt Ion: 91 Resp: 261043  
Ion Ratio Lower Upper  
91 100  
106 29.8 22.9 34.3





#67  
m/p-Xylenes  
Concen: 39.456 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

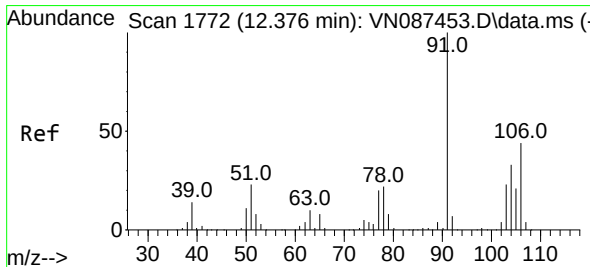
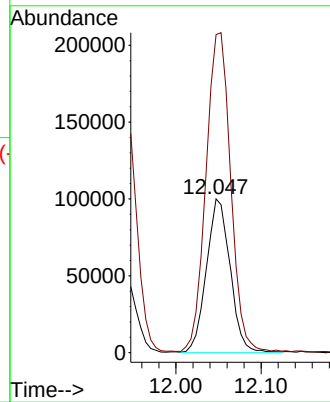
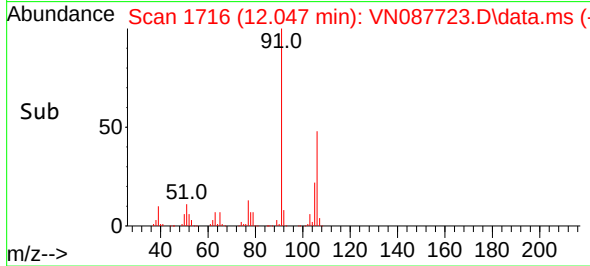
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion:106 Resp: 193984  
Ion Ratio Lower Upper  
106 100  
91 217.1 174.2 261.2

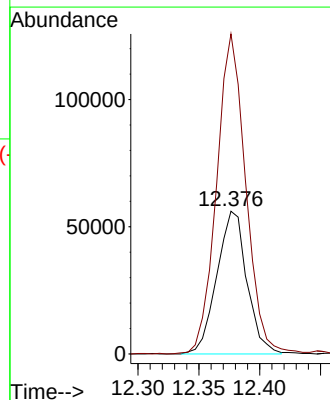
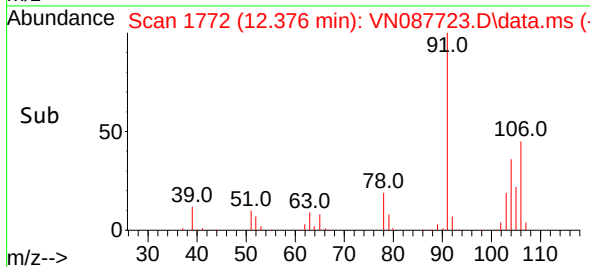
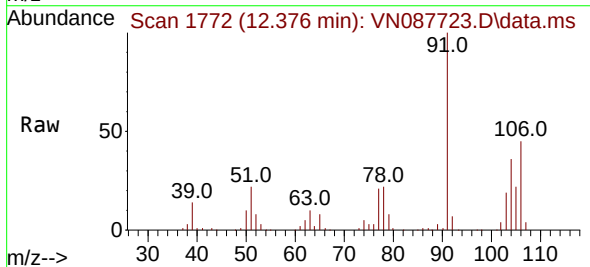
Manual Integrations  
APPROVED

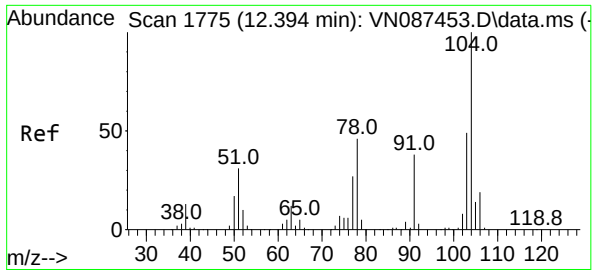
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#68  
o-Xylene  
Concen: 19.948 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

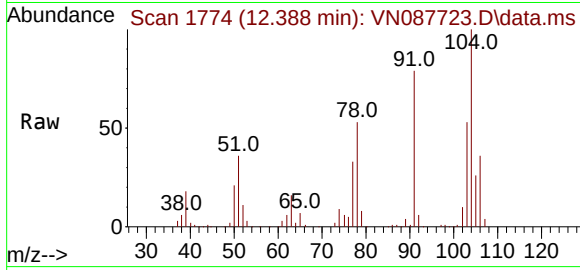
Tgt Ion:106 Resp: 96487  
Ion Ratio Lower Upper  
106 100  
91 217.5 114.5 343.5





#69  
Styrene  
Concen: 19.883 ug/l  
RT: 12.388 min Scan# 1775  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

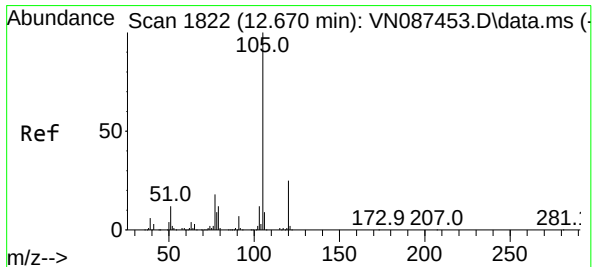
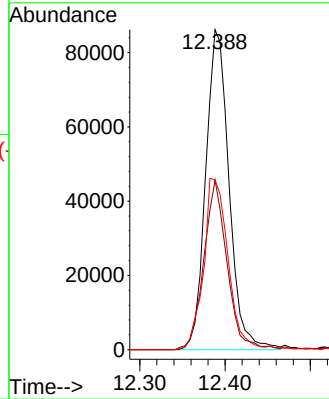
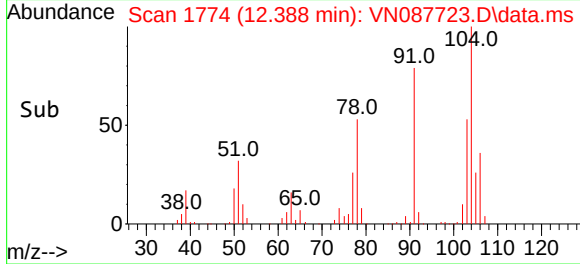
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion:104 Resp: 164210  
Ion Ratio Lower Upper  
104 100  
78 52.1 43.8 65.8  
103 55.8 43.1 64.7

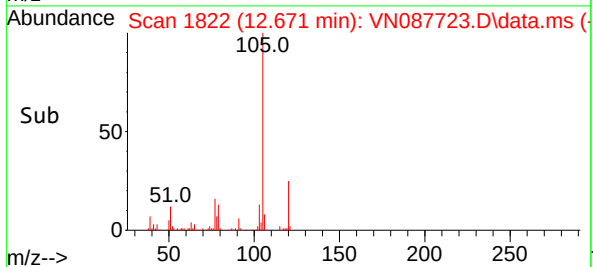
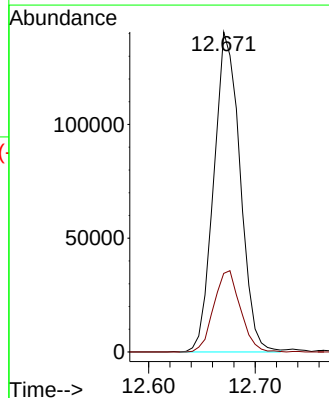
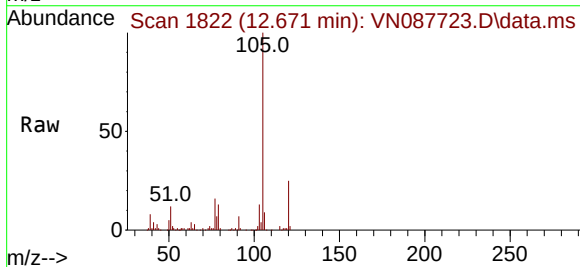
Manual Integrations  
APPROVED

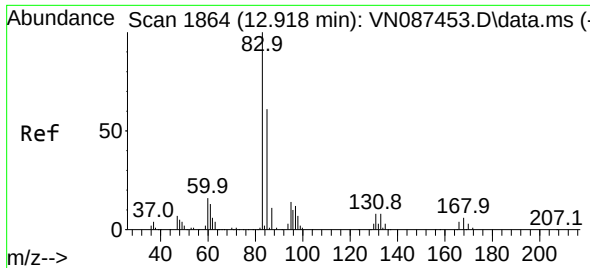
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#70  
Isopropylbenzene  
Concen: 19.589 ug/l  
RT: 12.671 min Scan# 1822  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

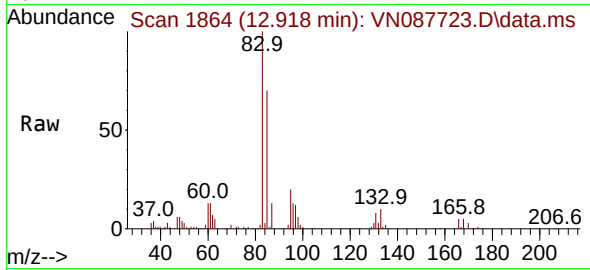
Tgt Ion:105 Resp: 240721  
Ion Ratio Lower Upper  
105 100  
120 25.7 17.5 32.5





#71  
1,1,2,2-Tetrachloroethane  
Concen: 21.658 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

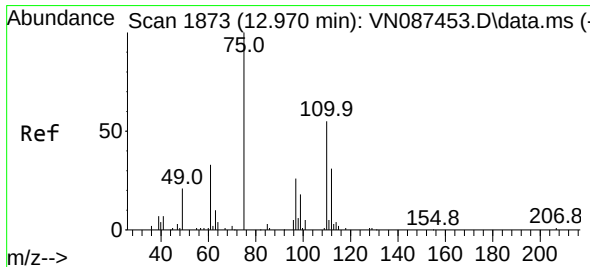
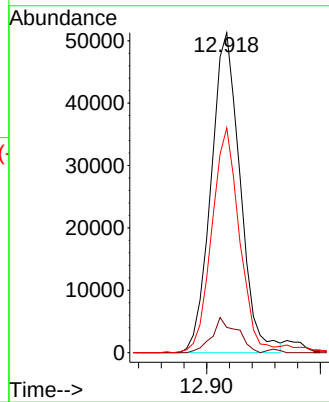
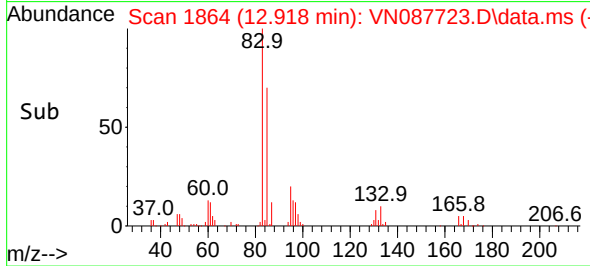
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 83 Resp: 9119  
Ion Ratio Lower Upper  
83 100  
131 7.4 4.8 14.3  
85 66.7 31.7 95.1

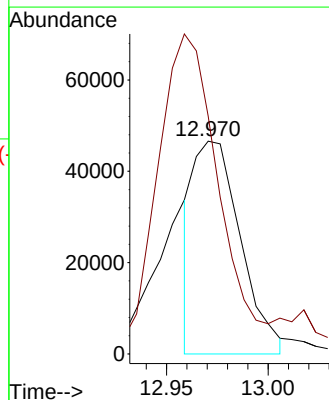
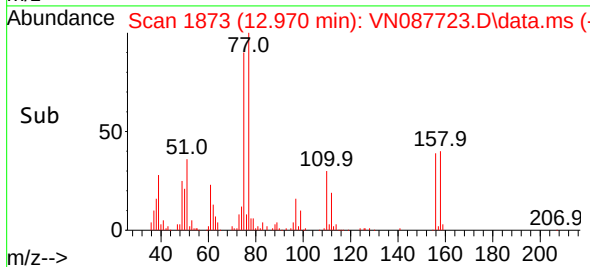
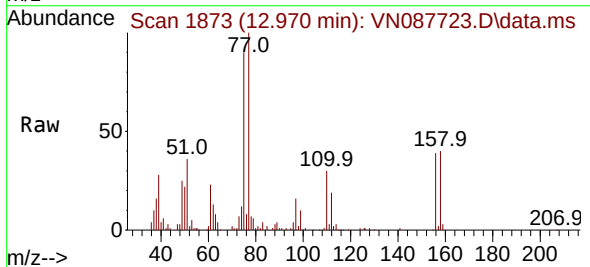
Manual Integrations  
APPROVED

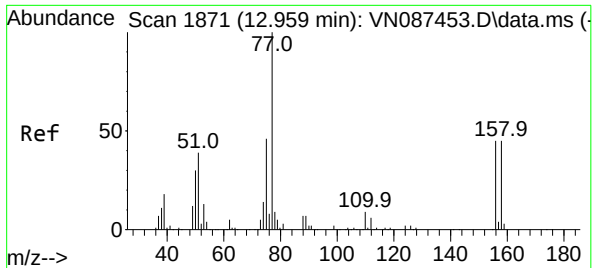
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 19.096 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

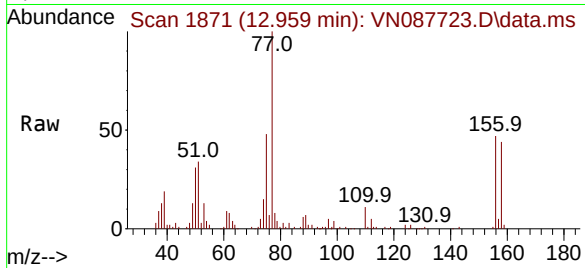
Tgt Ion: 75 Resp: 74901  
Ion Ratio Lower Upper  
75 100  
77 196.7 0.0 385.0





#73  
Bromobenzene  
Concen: 20.738 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

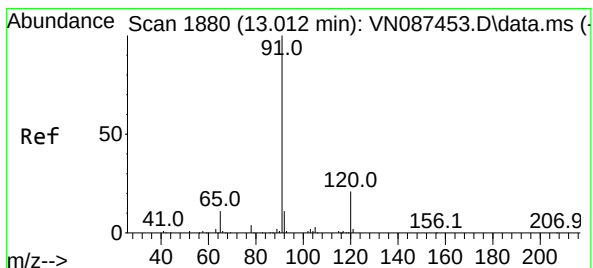
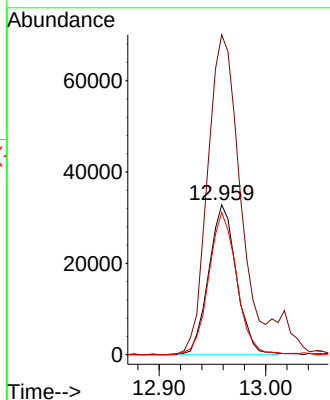
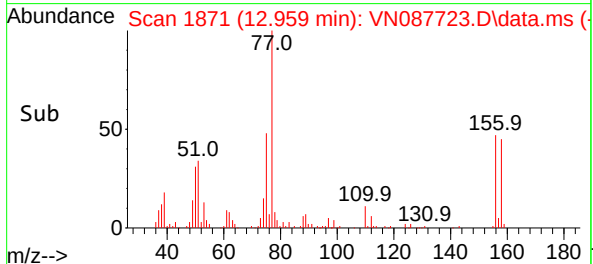
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



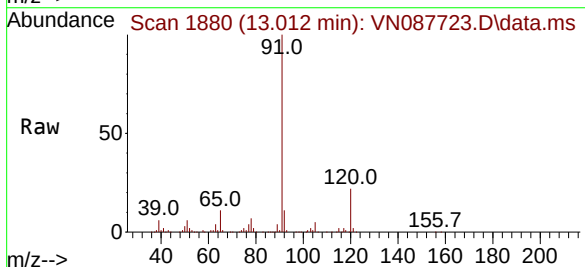
Tgt Ion:156 Resp: 59070  
Ion Ratio Lower Upper  
156 100  
77 249.4 0.0 506.6  
158 95.7 0.0 193.6

Manual Integrations  
APPROVED

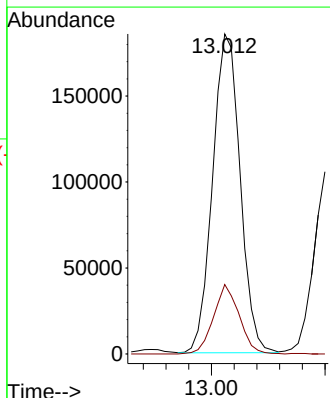
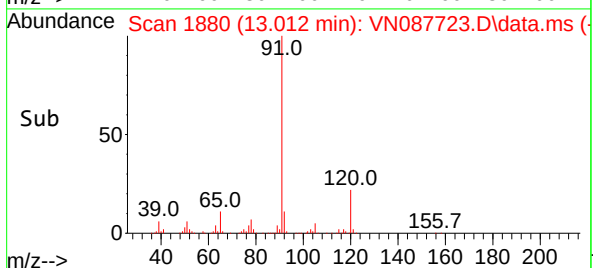
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

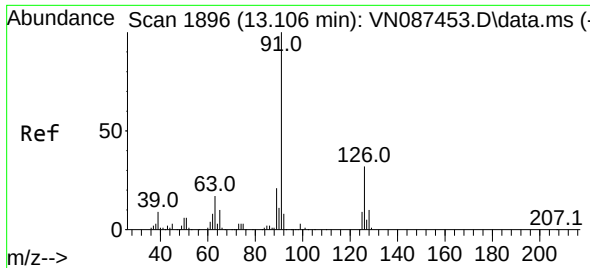


#74  
n-propylbenzene  
Concen: 20.322 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



Tgt Ion: 91 Resp: 311880  
Ion Ratio Lower Upper  
91 100  
120 20.3 0.0 41.8





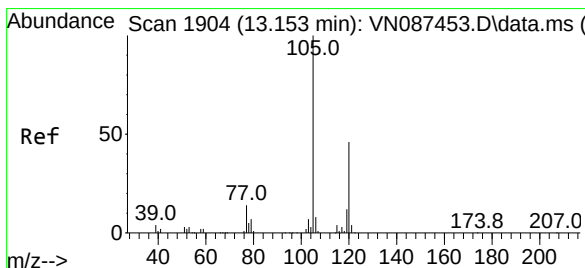
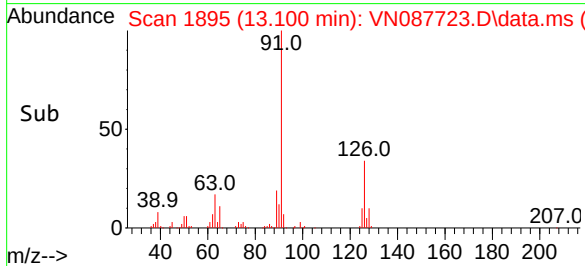
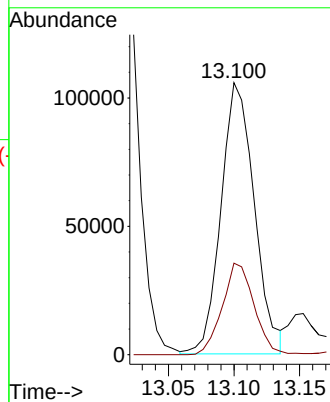
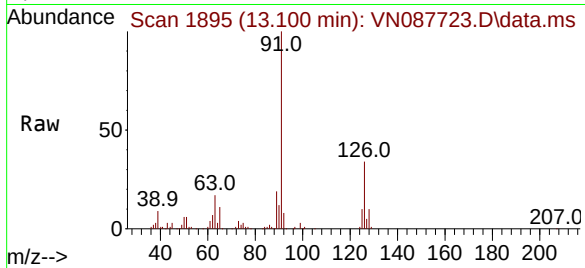
#75  
2-Chlorotoluene  
Concen: 19.808 ug/l  
RT: 13.100 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 91 Resp: 186992  
Ion Ratio Lower Upper  
91 100  
126 32.0 0.0 60.4

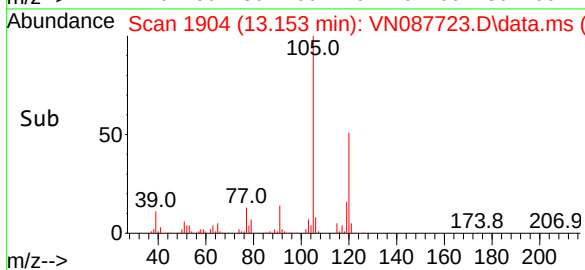
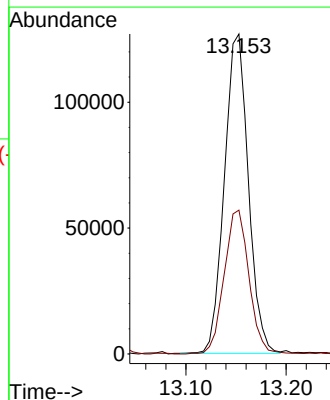
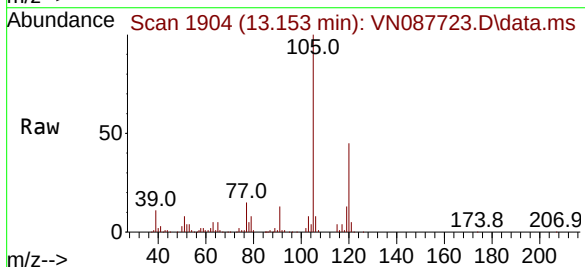
Manual Integrations  
APPROVED

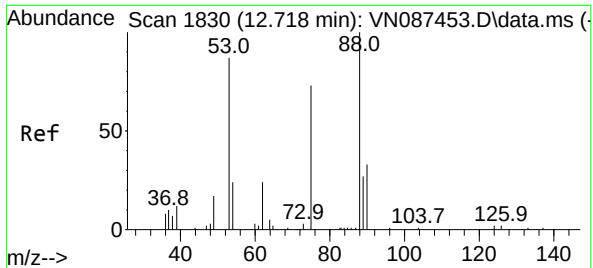
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 19.972 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

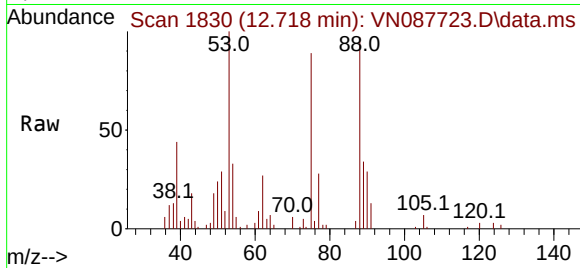
Tgt Ion:105 Resp: 210137  
Ion Ratio Lower Upper  
105 100  
120 46.7 0.0 91.2





#77  
t-1,4-Dichloro-2-butene  
Concen: 18.763 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

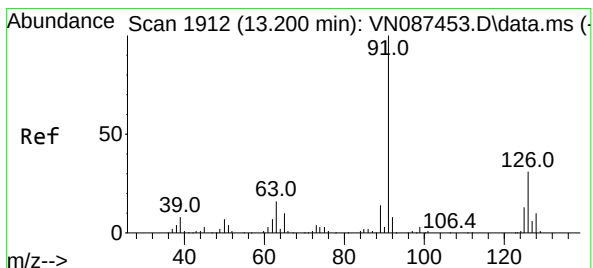
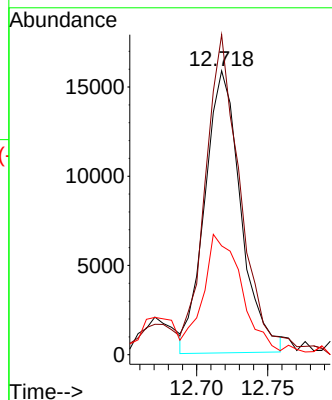
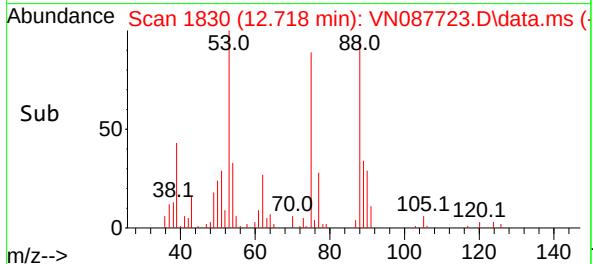
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion: 75 Resp: 27859  
Ion Ratio Lower Upper  
75 100  
53 113.8 59.0 176.8  
89 39.5 22.1 66.5

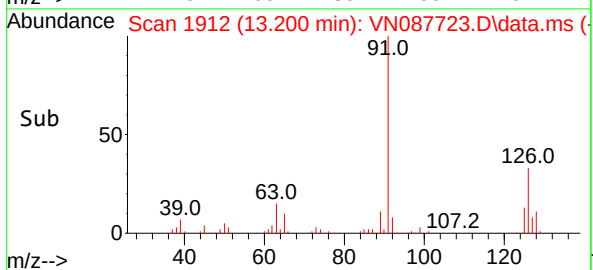
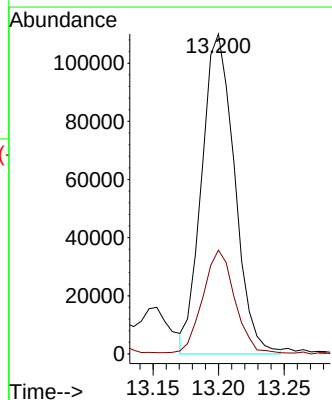
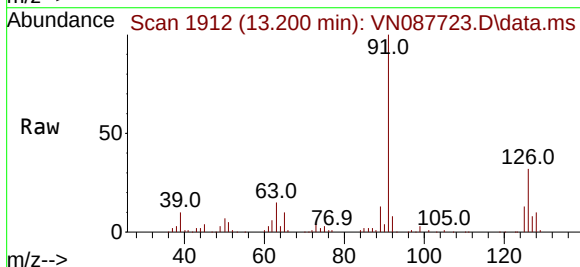
Manual Integrations  
APPROVED

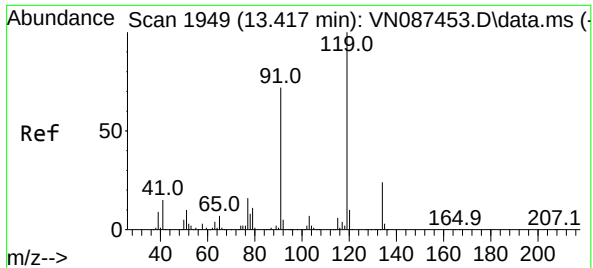
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78  
4-Chlorotoluene  
Concen: 20.031 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

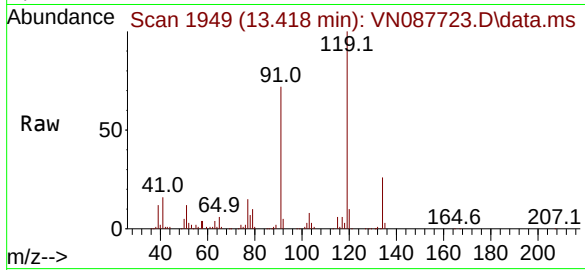
Tgt Ion: 91 Resp: 191634  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 63.2





#79  
tert-butylbenzene  
Concen: 19.861 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

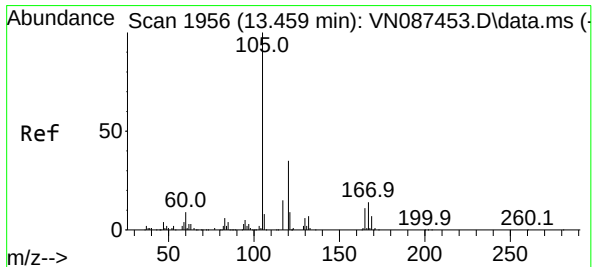
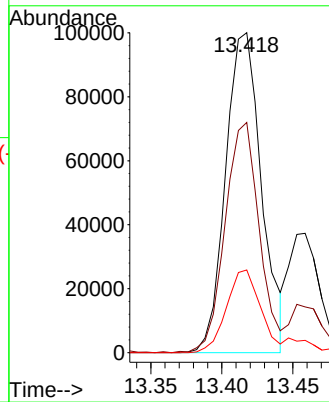
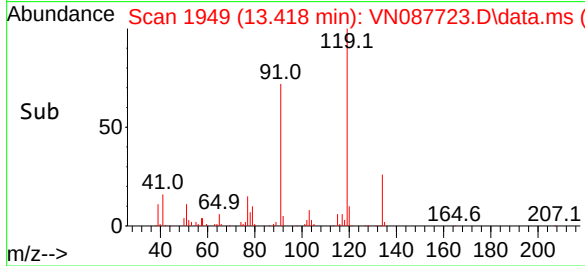
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



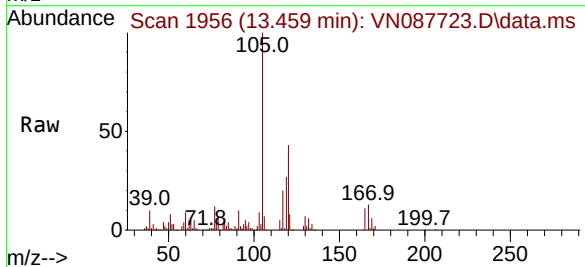
Tgt Ion:119 Resp: 17618  
Ion Ratio Lower Upper  
119 100  
91 68.5 0.0 141.6  
134 24.4 0.0 45.6

Manual Integrations  
APPROVED

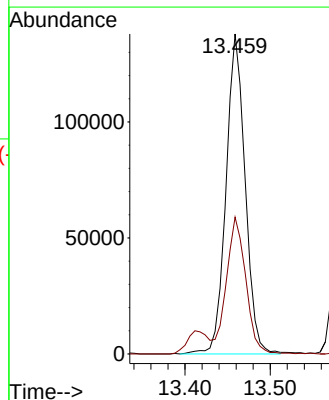
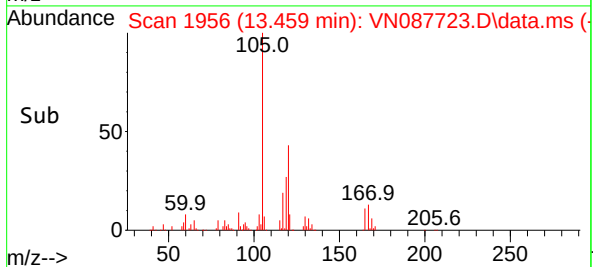
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



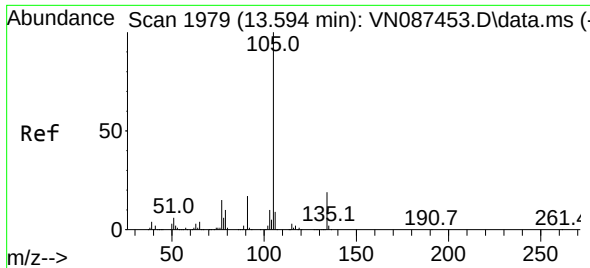
#80  
1,2,4-Trimethylbenzene  
Concen: 20.499 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



Tgt Ion:105 Resp: 215522  
Ion Ratio Lower Upper  
105 100  
120 43.1 0.0 87.2

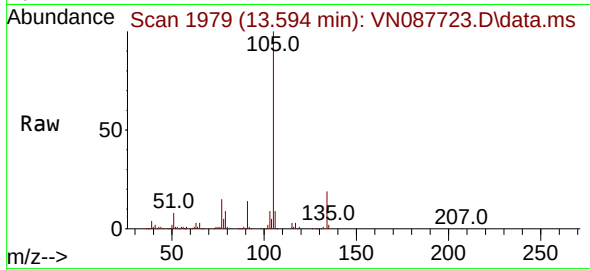






#81  
 sec-Butylbenzene  
 Concen: 19.938 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21

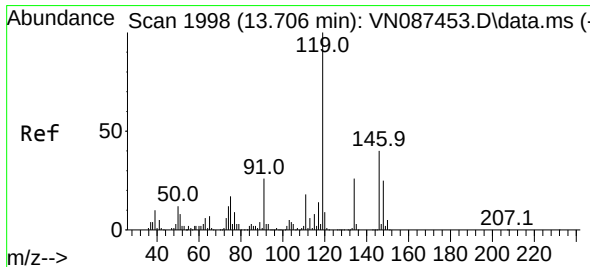
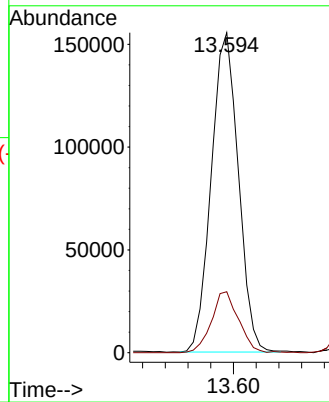
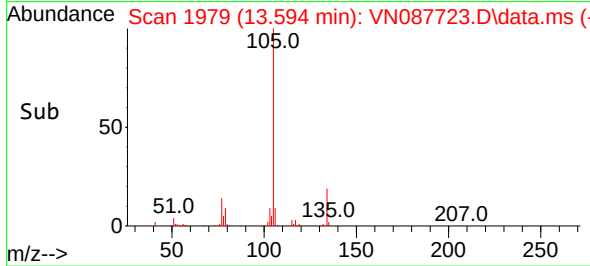
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC



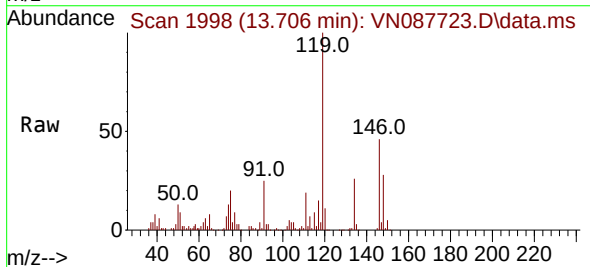
Tgt Ion:105 Resp: 257489  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 0.0 37.6

Manual Integrations  
 APPROVED

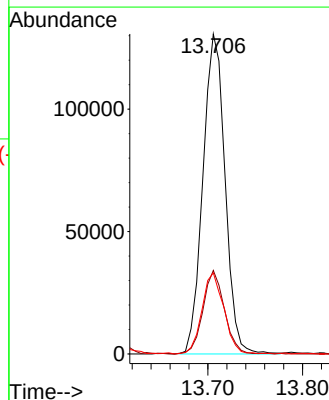
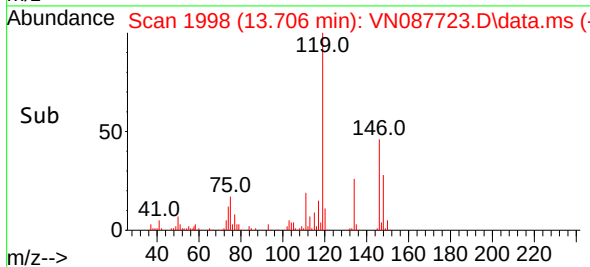
Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

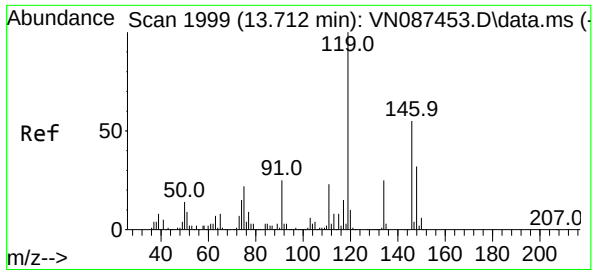


#82  
 p-Isopropyltoluene  
 Concen: 19.818 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21



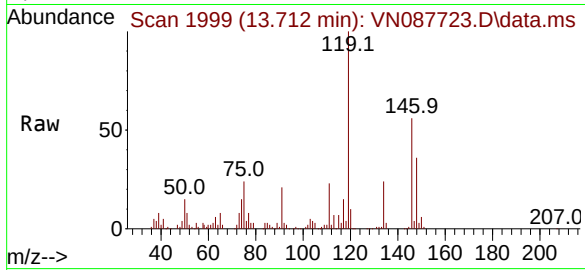
Tgt Ion:119 Resp: 212506  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 0.0 51.4  
 91 25.0 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 21.940 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

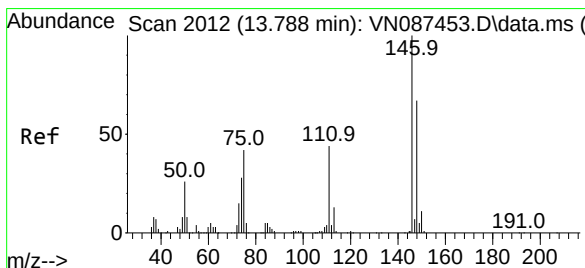
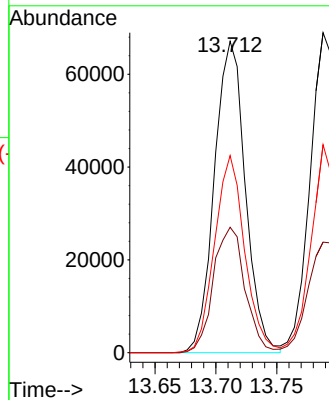
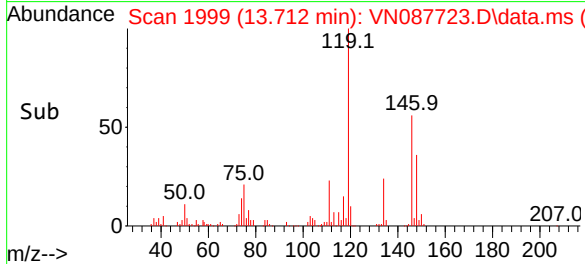
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



Tgt Ion:146 Resp: 119010  
Ion Ratio Lower Upper  
146 100  
111 41.0 21.9 65.5  
148 61.7 31.3 93.9

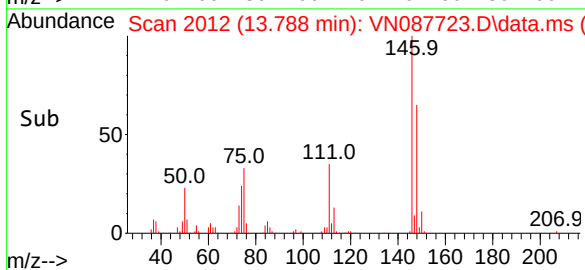
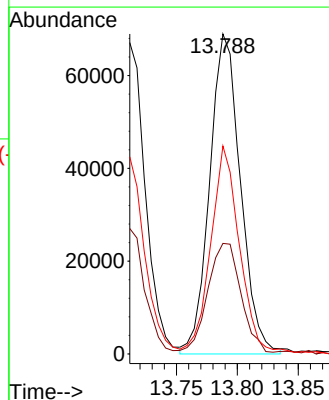
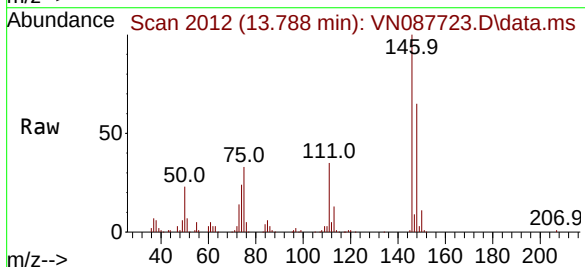
Manual Integrations  
APPROVED

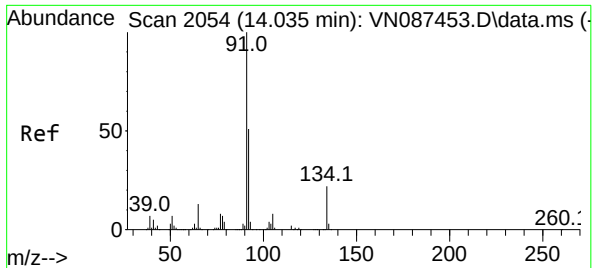
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#84  
1,4-Dichlorobenzene  
Concen: 22.064 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:146 Resp: 121344  
Ion Ratio Lower Upper  
146 100  
111 37.9 21.1 63.1  
148 59.8 31.4 94.3





#85

n-Butylbenzene

Concen: 19.485 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 91 Resp: 20442

Ion Ratio Lower Upper

91 100

92 52.0 0.0 106.6

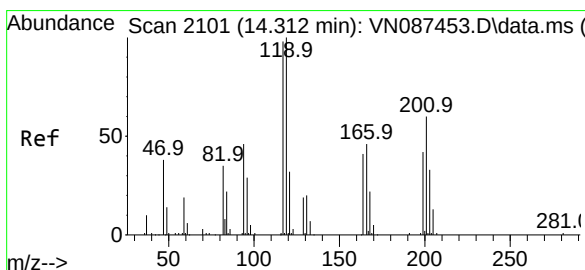
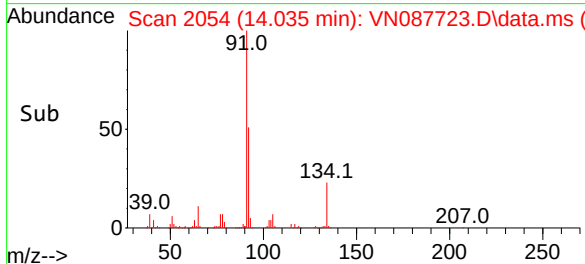
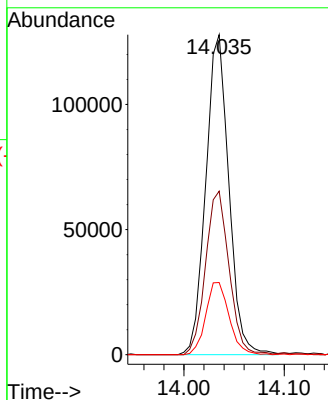
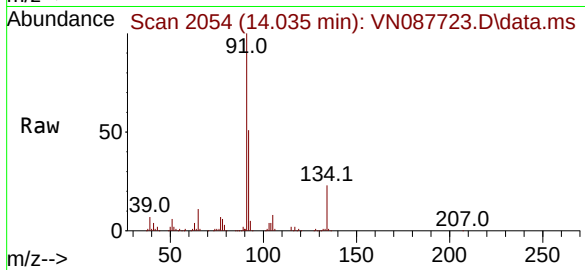
134 23.0 0.0 44.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#86

Hexachloroethane

Concen: 20.881 ug/l

RT: 14.306 min Scan# 2100

Delta R.T. -0.006 min

Lab File: VN087723.D

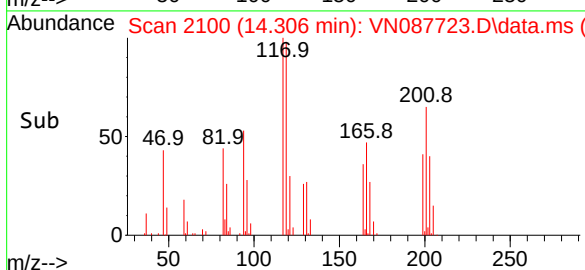
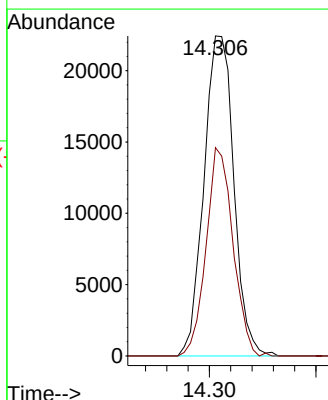
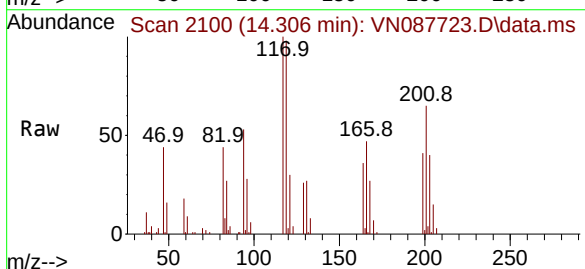
Acq: 04 Sep 2025 15:21

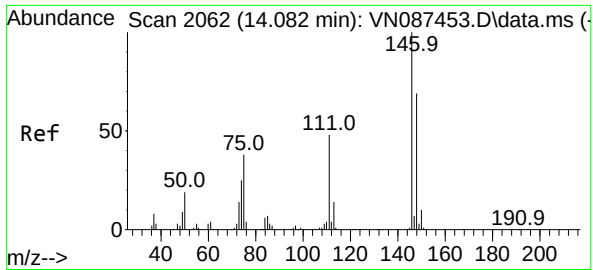
Tgt Ion:117 Resp: 43724

Ion Ratio Lower Upper

117 100

201 58.4 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 22.460 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

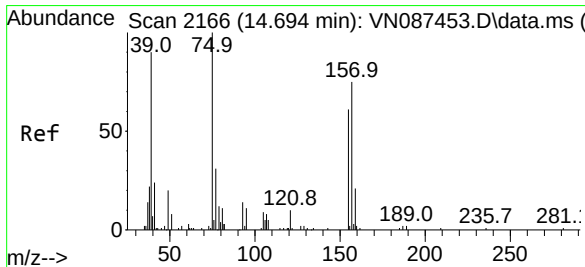
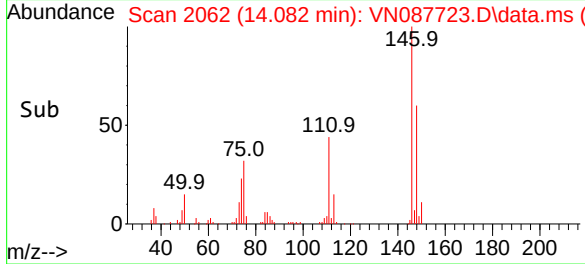
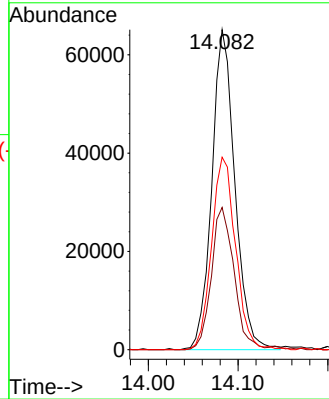
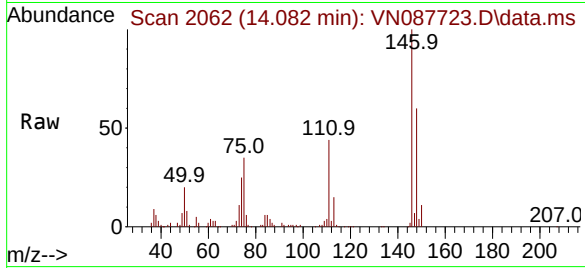
VSTDCCC020EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 11630 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 43.5  | 22.9  | 68.7  |
| 148       | 62.2  | 31.6  | 94.7  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.144 ug/l

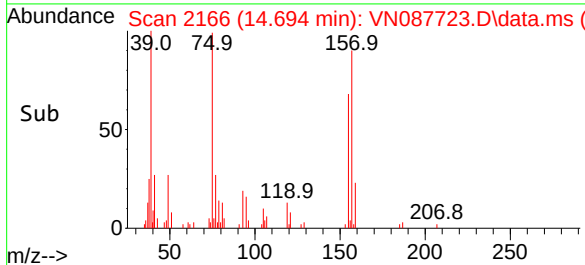
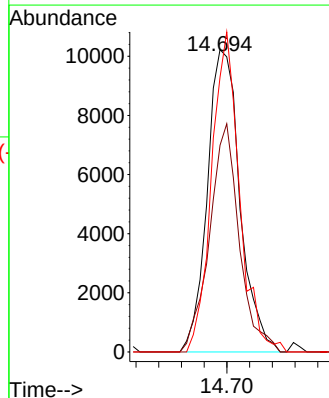
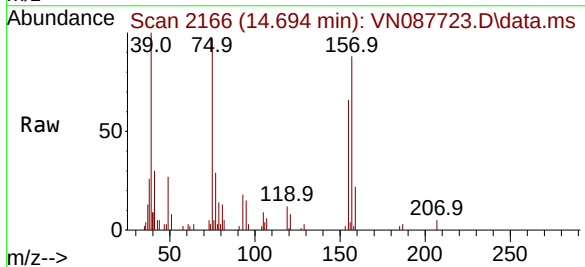
RT: 14.694 min Scan# 2166

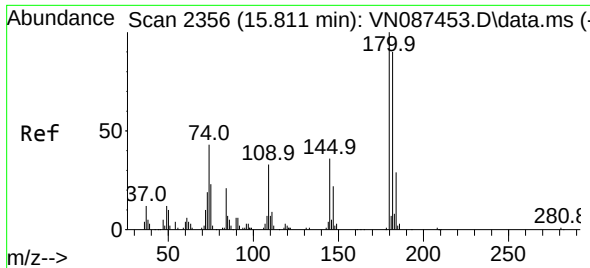
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

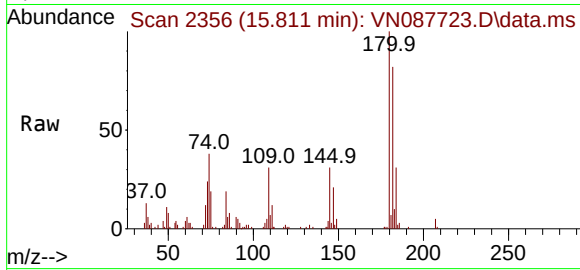
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 20419 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 68.7  | 55.7  | 83.5  |
| 157       | 89.9  | 65.8  | 98.6  |





#89  
1,2,4-Trichlorobenzene  
Concen: 20.672 ug/l  
RT: 15.811 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

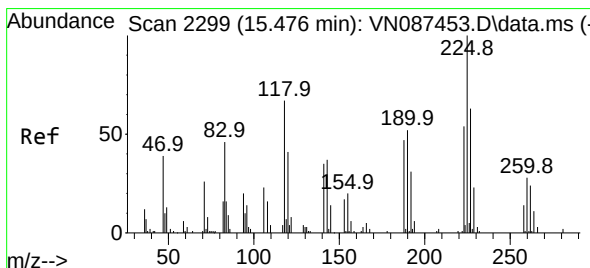
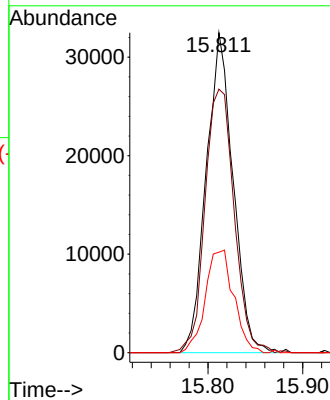
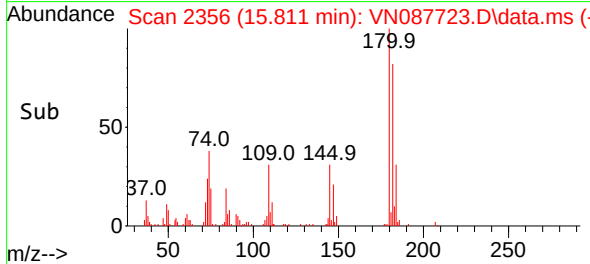
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



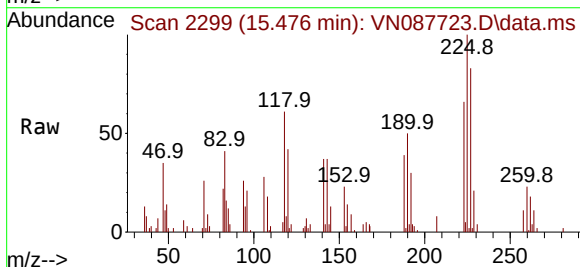
Tgt Ion:180 Resp: 6397  
Ion Ratio Lower Upper  
180 100  
182 89.2 75.0 112.4  
145 34.0 28.6 43.0

Manual Integrations  
APPROVED

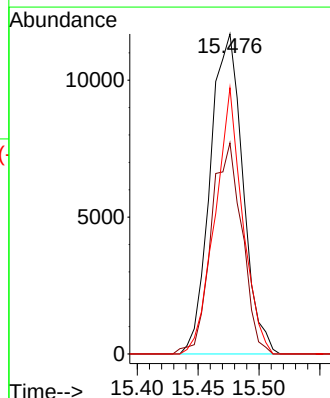
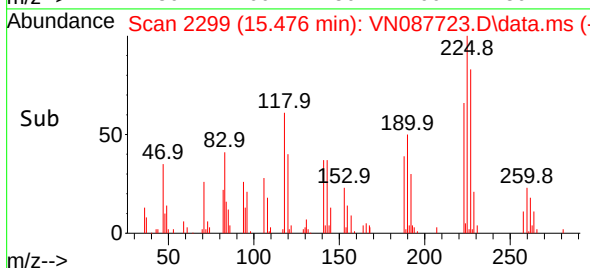
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

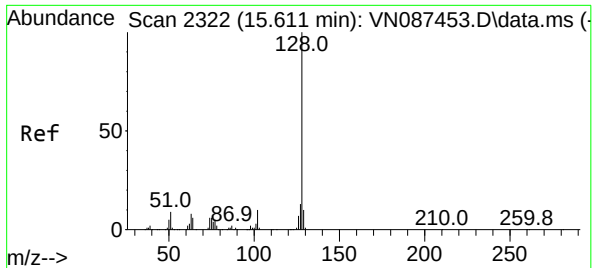


#90  
Hexachlorobutadiene  
Concen: 18.138 ug/l  
RT: 15.476 min Scan# 2299  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



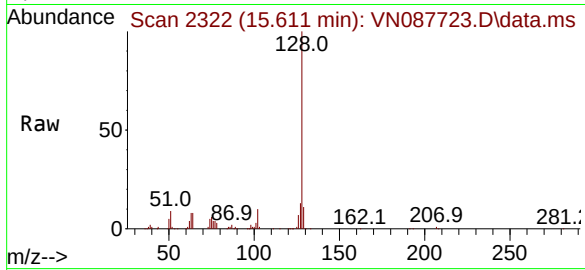
Tgt Ion:225 Resp: 21826  
Ion Ratio Lower Upper  
225 100  
223 61.7 0.0 116.0  
227 70.1 0.0 127.0





#91  
Naphthalene  
Concen: 18.638 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

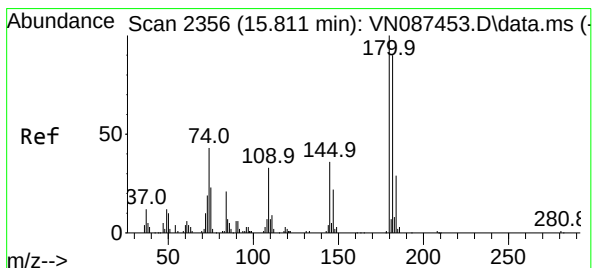
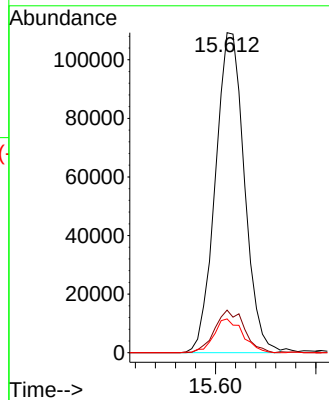
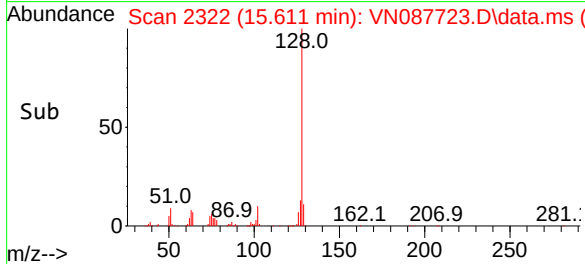
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC



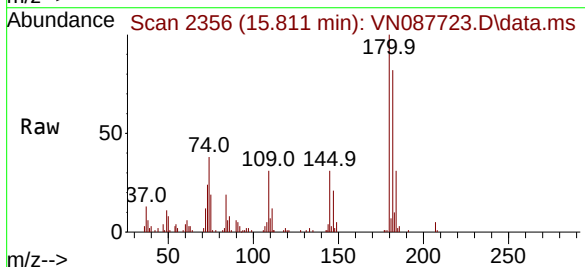
Tgt Ion:128 Resp: 21992  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.4  
129 10.5 8.9 13.3

Manual Integrations  
APPROVED

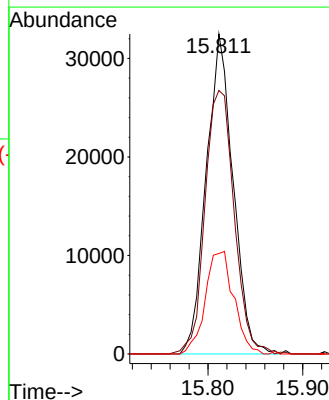
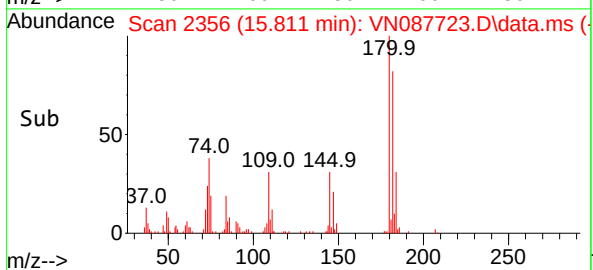
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 20.672 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21



Tgt Ion:180 Resp: 63971  
Ion Ratio Lower Upper  
180 100  
182 89.2 0.0 187.4  
145 34.0 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 66    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.959 | 1.834 | 6.4    | 58    | 0.00     |
| 3 M  | Chloromethane               | 2.010 | 1.897 | 5.6    | 57    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.131 | 2.066 | 3.1    | 59    | 0.00     |
| 5 M  | Bromomethane                | 1.154 | 1.459 | -26.4# | 82    | 0.00     |
| 6 M  | Chloroethane                | 1.374 | 1.536 | -11.8  | 70    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.067 | 3.312 | -8.0   | 68    | 0.00     |
| 8 T  | Diethyl Ether               | 1.278 | 1.311 | -2.6   | 65    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.564 | 1.899 | -21.4  | 78    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.643 | 1.893 | -15.2  | 72    | 0.00     |
| 11   | Methyl Iodide               | 1.294 | 0.924 | 28.6#  | 56    | 0.00     |
| 12   | Methyl Acetate              | 3.032 | 3.303 | -8.9   | 70    | 0.00     |
| 13 M | Acrolein                    | 0.463 | 0.553 | -19.4  | 78    | 0.00     |
| 14 M | Acrylonitrile               | 1.324 | 1.231 | 7.0    | 59    | 0.00     |
| 15 M | Acetone                     | 0.378 | 0.360 | 4.8    | 57    | 0.00     |
| 16 M | Carbon Disulfide            | 5.097 | 4.471 | 12.3   | 57    | 0.01     |
| 17   | Allyl chloride              | 3.349 | 2.943 | 12.1   | 57    | 0.00     |
| 18 M | Methylene Chloride          | 2.115 | 2.044 | 3.4    | 62    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.954 | 1.833 | 6.2    | 60    | 0.00     |
| 20 T | Diisopropyl ether           | 7.629 | 6.994 | 8.3    | 59    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.944 | 3.832 | 2.8    | 61    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.404 | 2.228 | 7.3    | 58    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.563 | 0.442 | 21.5   | 51    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 7.487 | 6.600 | 11.8   | 57    | 0.00     |
| 25 M | Chloroform                  | 4.116 | 4.038 | 1.9    | 63    | 0.00     |
| 26   | Cyclohexane                 | 3.157 | 2.847 | 9.8    | 56    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.767 | 2.506 | 9.4    | 58    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 57    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.489 | 0.513 | -4.9   | 60    | 0.00     |
| 30 M | 2-Butanone                  | 0.361 | 0.359 | 0.6    | 56    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.631 | 0.635 | -0.6   | 57    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.624 | 0.682 | -9.3   | 63    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.518 | 0.552 | -6.6   | 61    | 0.00     |
| 34 M | Benzene                     | 1.545 | 1.651 | -6.9   | 61    | 0.00     |
| 35   | Methacrylonitrile           | 0.389 | 0.364 | 6.4    | 52    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.624 | 0.631 | -1.1   | 57    | 0.00     |
| 37 M | Trichloroethene             | 0.340 | 0.381 | -12.1  | 63    | 0.00     |
| 38   | Methylcyclohexane           | 0.568 | 0.521 | 8.3    | 52    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.396 | 0.430 | -8.6   | 61    | 0.00     |
| 40   | Dibromomethane              | 0.297 | 0.325 | -9.4   | 62    | 0.00     |
| 41 M | Bromodichloromethane        | 0.617 | 0.664 | -7.6   | 63    | 0.00     |
| 42 M | Vinyl Acetate               | 1.188 | 1.111 | 6.5    | 52    | 0.00     |
| 43   | Ethyl Acetate               | 0.697 | 0.693 | 0.6    | 57    | 0.00     |
| 44   | Isopropyl Acetate           | 1.181 | 1.130 | 4.3    | 54    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.008 | 0.006 | 25.0   | 48#   | 0.00     |
| 46   | Methyl methacrylate         | 0.558 | 0.535 | 4.1    | 55    | 0.00     |
| 47   | n-amyl Acetate              | 0.652 | 0.644 | 1.2    | 65    | 0.01     |
| 48 M | t-1,3-Dichloropropene       | 0.672 | 0.654 | 2.7    | 56    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 0.676 | 0.678 | -0.3  | 58    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.375 | 0.420 | -12.0 | 64    | 0.00     |
| 51   | Ethyl methacrylate          | 0.661 | 0.611 | 7.6   | 54    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.676 | 0.720 | -6.5  | 61    | 0.00     |
| 53 M | Dibromochloromethane        | 0.434 | 0.481 | -10.8 | 65    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.399 | 0.423 | -6.0  | 60    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.348 | 0.325 | 6.6   | 53    | 0.00     |
| 56 M | Bromoform                   | 0.287 | 0.293 | -2.1  | 61    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 59    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.772 | 0.785 | -1.7  | 58    | 0.00     |
| 59 M | 2-Hexanone                  | 0.524 | 0.496 | 5.3   | 56    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.516 | 0.489 | 5.2   | 56    | 0.00     |
| 61 M | Tetrachloroethene           | 0.292 | 0.328 | -12.3 | 67    | 0.00     |
| 62 M | Toluene                     | 1.852 | 1.895 | -2.3  | 59    | 0.00     |
| 63 S | Toluene-d8                  | 1.380 | 1.388 | -0.6  | 60    | 0.00     |
| 64 M | Chlorobenzene               | 1.138 | 1.179 | -3.6  | 61    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.435 | -8.7  | 64    | 0.00     |
| 66 M | Ethyl Benzene               | 2.064 | 2.011 | 2.6   | 56    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.758 | 0.747 | 1.5   | 58    | 0.00     |
| 68 M | o-Xylene                    | 0.745 | 0.743 | 0.3   | 59    | 0.00     |
| 69 M | Styrene                     | 1.273 | 1.265 | 0.6   | 58    | 0.00     |
| 70   | Isopropylbenzene            | 1.893 | 1.855 | 2.0   | 57    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.649 | 0.703 | -8.3  | 61    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.604 | 0.577 | 4.5   | 60    | 0.00     |
| 73   | Bromobenzene                | 0.439 | 0.455 | -3.6  | 61    | 0.00     |
| 74   | n-propylbenzene             | 2.365 | 2.403 | -1.6  | 59    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.455 | 1.441 | 1.0   | 58    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.621 | 1.619 | 0.1   | 58    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.229 | 0.215 | 6.1   | 59    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.474 | 1.476 | -0.1  | 59    | 0.00     |
| 79   | tert-butylbenzene           | 1.367 | 1.357 | 0.7   | 58    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.620 | 1.660 | -2.5  | 60    | 0.00     |
| 81   | sec-Butylbenzene            | 1.990 | 1.984 | 0.3   | 58    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.652 | 1.637 | 0.9   | 57    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.836 | 0.917 | -9.7  | 64    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.847 | 0.935 | -10.4 | 64    | 0.00     |
| 85   | n-Butylbenzene              | 1.616 | 1.575 | 2.5   | 56    | 0.00     |
| 86 T | Hexachloroethane            | 0.323 | 0.337 | -4.3  | 61    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.798 | 0.896 | -12.3 | 65    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.164 | 0.157 | 4.3   | 55    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.477 | 0.493 | -3.4  | 61    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.185 | 0.168 | 9.2   | 53    | 0.00     |
| 91 M | Naphthalene                 | 1.818 | 1.694 | 6.8   | 55    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.477 | 0.493 | -3.4  | 61    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 66    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.726  | 6.4    | 58    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.881  | 5.6    | 57    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 19.386  | 3.1    | 59    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 25.287  | -26.4# | 82    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 22.349  | -11.7  | 70    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 21.592  | -8.0   | 68    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.516  | -2.6   | 65    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 24.284  | -21.4  | 78    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 23.045  | -15.2  | 72    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 14.279  | 28.6#  | 56    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 21.784  | -8.9   | 70    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 119.369 | -19.4  | 78    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 92.955  | 7.0    | 59    | 0.00     |
| 15 M | Acetone                     | 100.000 | 95.158  | 4.8    | 57    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.543  | 12.3   | 57    | 0.01     |
| 17   | Allyl chloride              | 20.000  | 17.575  | 12.1   | 57    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 19.328  | 3.4    | 62    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.767  | 6.2    | 60    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.335  | 8.3    | 59    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.433  | 2.8    | 61    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.532  | 7.3    | 58    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 78.592  | 21.4   | 51    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.630  | 11.9   | 57    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.618  | 1.9    | 63    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.032  | 9.8    | 56    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 27.174  | 9.4    | 58    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 57    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.981  | -4.9   | 60    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 99.616  | 0.4    | 56    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.121  | -0.6   | 57    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 21.850  | -9.3   | 63    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 21.287  | -6.4   | 61    | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.380  | -6.9   | 61    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.727  | 6.4    | 52    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.210  | -1.1   | 57    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 22.421  | -12.1  | 63    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.355  | 8.2    | 52    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 21.735  | -8.7   | 61    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 21.868  | -9.3   | 62    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 21.522  | -7.6   | 63    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 93.526  | 6.5    | 52    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 19.896  | 0.5    | 57    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.126  | 4.4    | 54    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 344.161 | 14.0   | 48    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 19.186  | 4.1    | 55    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.735  | 1.3    | 65    | 0.01     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.468  | 2.7    | 56    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 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 | cis-1,3-Dichloropropene     | 20.000  | 20.047  | -0.2  | 58    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.387  | -11.9 | 64    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 18.496  | 7.5   | 54    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 21.281  | -6.4  | 61    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 22.199  | -11.0 | 65    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.233  | -6.2  | 60    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 93.240  | 6.8   | 53    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 20.416  | -2.1  | 61    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 59    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 101.757 | -1.8  | 58    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 94.645  | 5.4   | 56    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 28.430  | 5.2   | 56    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 22.426  | -12.1 | 67    | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.471  | -2.4  | 59    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.176  | -0.6  | 60    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.730  | -3.7  | 61    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.728  | -8.6  | 64    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.489  | 2.6   | 56    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 39.456  | 1.4   | 58    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.948  | 0.3   | 59    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.883  | 0.6   | 58    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.589  | 2.1   | 57    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 21.658  | -8.3  | 61    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.096  | 4.5   | 60    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.738  | -3.7  | 61    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.322  | -1.6  | 59    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.808  | 1.0   | 58    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.972  | 0.1   | 58    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 18.763  | 6.2   | 59    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.031  | -0.2  | 59    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.861  | 0.7   | 58    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 20.499  | -2.5  | 60    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.938  | 0.3   | 58    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.818  | 0.9   | 57    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 21.940  | -9.7  | 64    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 22.064  | -10.3 | 64    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.485  | 2.6   | 56    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 20.881  | -4.4  | 61    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 22.460  | -12.3 | 65    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 19.144  | 4.3   | 55    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.672  | -3.4  | 61    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.138  | 9.3   | 53    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.638  | 6.8   | 55    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 20.672  | -3.4  | 61    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



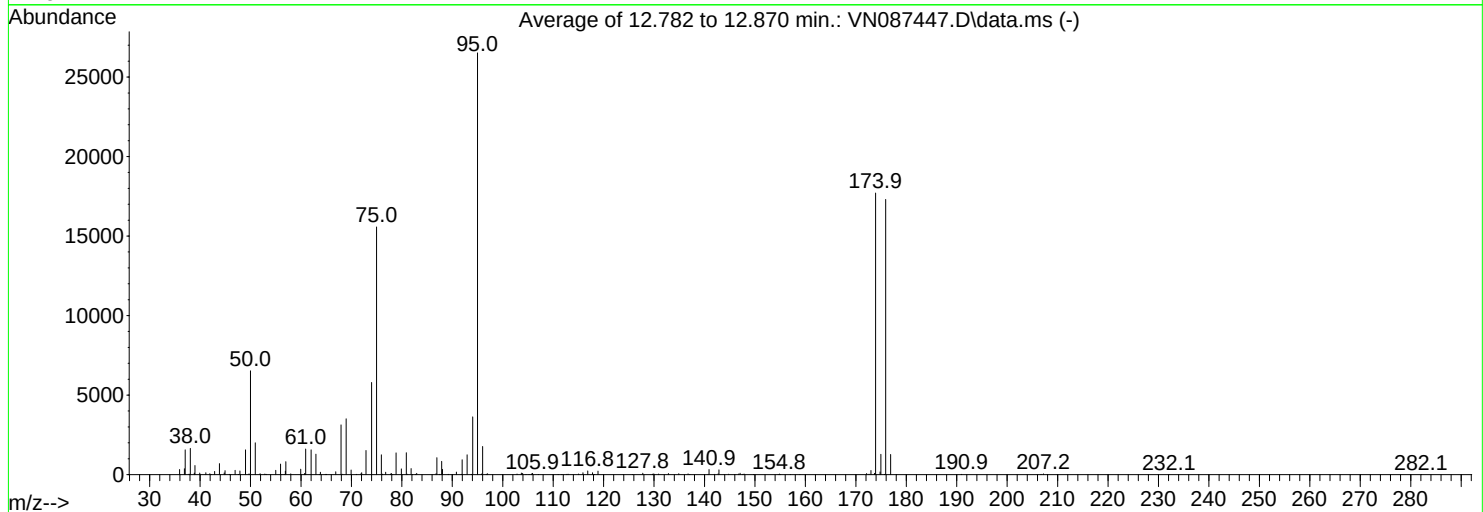
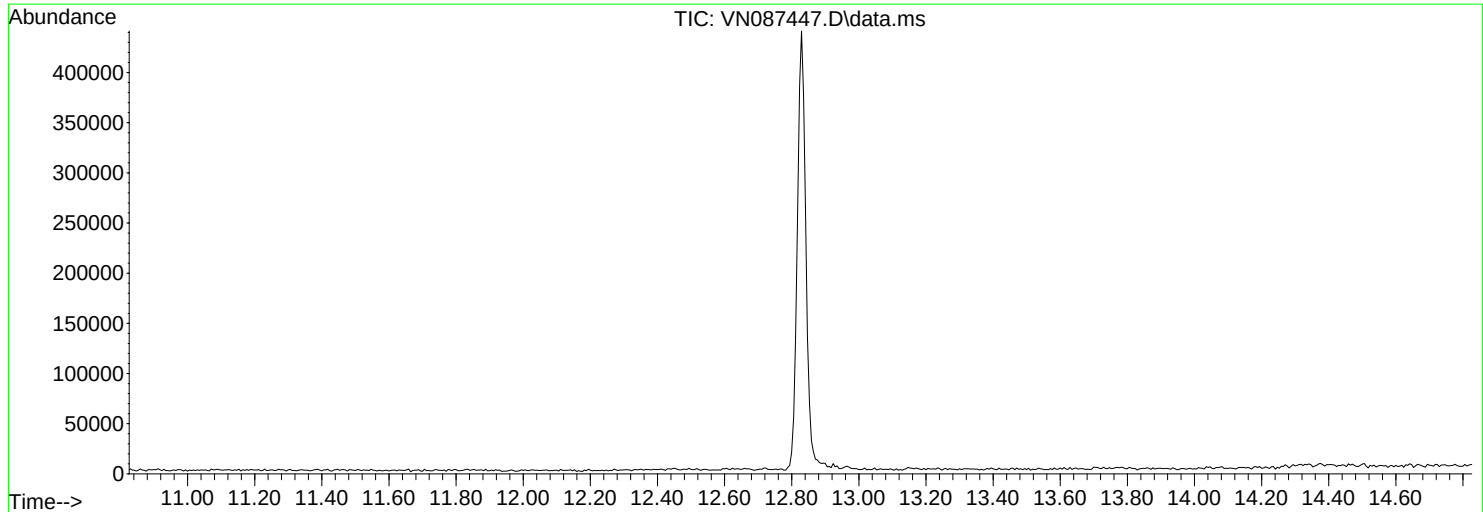
# QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
Data File : VN087447.D  
Acq On : 05 Aug 2025 09:27  
Operator : JC\MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
Last Update : Wed Aug 06 02:01:21 2025



AutoFind: Averaged scan 1841 to 1856; Bkg corrected with scan 1840

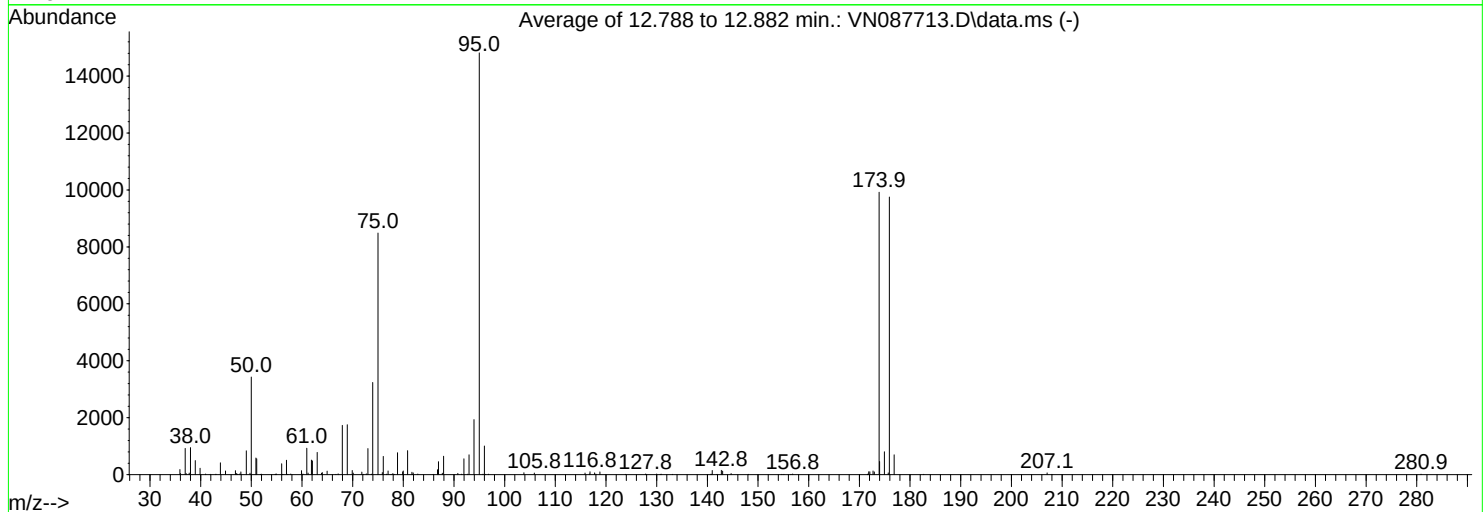
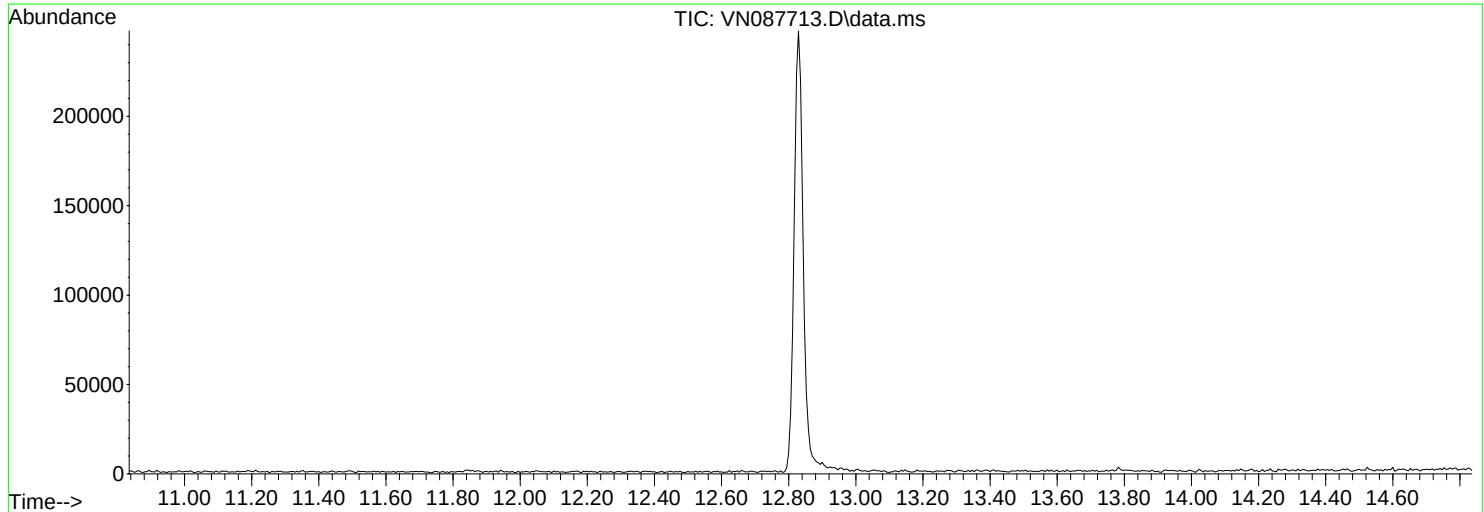
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw   | Result    |
|--------|---------|--------|--------|-------|-------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn   | Pass/Fail |
| 50     | 95      | 15     | 40     | 24.6  | 6530  | PASS      |
| 75     | 95      | 30     | 60     | 58.7  | 15571 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 26522 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 1774  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.5   | 263   | PASS      |
| 174    | 95      | 50     | 100    | 66.8  | 17704 | PASS      |
| 175    | 174     | 5      | 9      | 7.2   | 1276  | PASS      |
| 176    | 174     | 95     | 101    | 97.7  | 17301 | PASS      |
| 177    | 176     | 5      | 9      | 7.3   | 1269  | PASS      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087713.D  
Acq On : 04 Sep 2025 10:10  
Operator : JC\MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
Last Update : Fri Sep 05 03:29:53 2025



AutoFind: Averaged scan 1842 to 1858; Bkg corrected with scan 1841

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 23.1         | 3426       | PASS                |
| 75             | 95              | 30              | 60              | 57.3         | 8489       | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 14815      | PASS                |
| 96             | 95              | 5               | 9               | 6.8          | 1008       | PASS                |
| 173            | 174             | 0.00            | 2               | 1.3          | 131        | PASS                |
| 174            | 95              | 50              | 100             | 67.0         | 9919       | PASS                |
| 175            | 174             | 5               | 9               | 8.1          | 802        | PASS                |
| 176            | 174             | 95              | 101             | 98.3         | 9751       | PASS                |
| 177            | 176             | 5               | 9               | 7.1          | 696        | PASS                |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: |                              |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  |                              |
| Client Sample ID:  | VN0904WBL01                               | SDG No.:        | Q3017                        |
| Lab Sample ID:     | VN0904WBL01                               | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087717.D        | 1         | 09/04/25 12:59 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 0.83  | U         | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 2.30  | U         | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 0.96  | U         | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 0.86  | U         | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 2.00  | U         | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.80  | U         | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 0.73  | U         | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 0.49  | U         | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.00  | U         | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.72  | U         | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |
|--------------------|-------------------------------|-----------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: |               |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  |               |
| Client Sample ID:  | VN0904WBL01                   |           | SDG No.:        | Q3017         |
| Lab Sample ID:     | VN0904WBL01                   |           | Matrix:         | Water         |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087717.D        | 1         | 09/04/25 12:59 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 0.45   | U         | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 3.20   | U         | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 0.66   | U         | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 0.84   | U         | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 0.47   | U         | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 0.56   | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 1.30   | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 0.72   | U         | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 0.94   | U         | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 0.78   | U         | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 0.44   | U         | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 0.59   | U         | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 0.81   | U         | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 0.86   | U         | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1.00   | U         | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1.10   | U         | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 30.5   |           | 91 - 110 | 102%       | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 30.1   |           | 91 - 112 | 100%       | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 25.9   |           | 63 - 112 | 86%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 37900  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 207000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 183000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: |                              |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  |                              |
| Client Sample ID:  | VN0904WBL01                               | SDG No.:        | Q3017                        |
| Lab Sample ID:     | VN0904WBL01                               | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087717.D        | 1         | 09/04/25 12:59 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Quant Time: Sep 05 02:19:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.794  | 128  | 37882    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.082  | 114  | 207176   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 183441   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 106627   | 30.517   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 101.733% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 81770    | 25.902   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 86.333%  |
| 63) Toluene-d8              | 10.547 | 98    | 253748   | 30.063   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 100.200% |

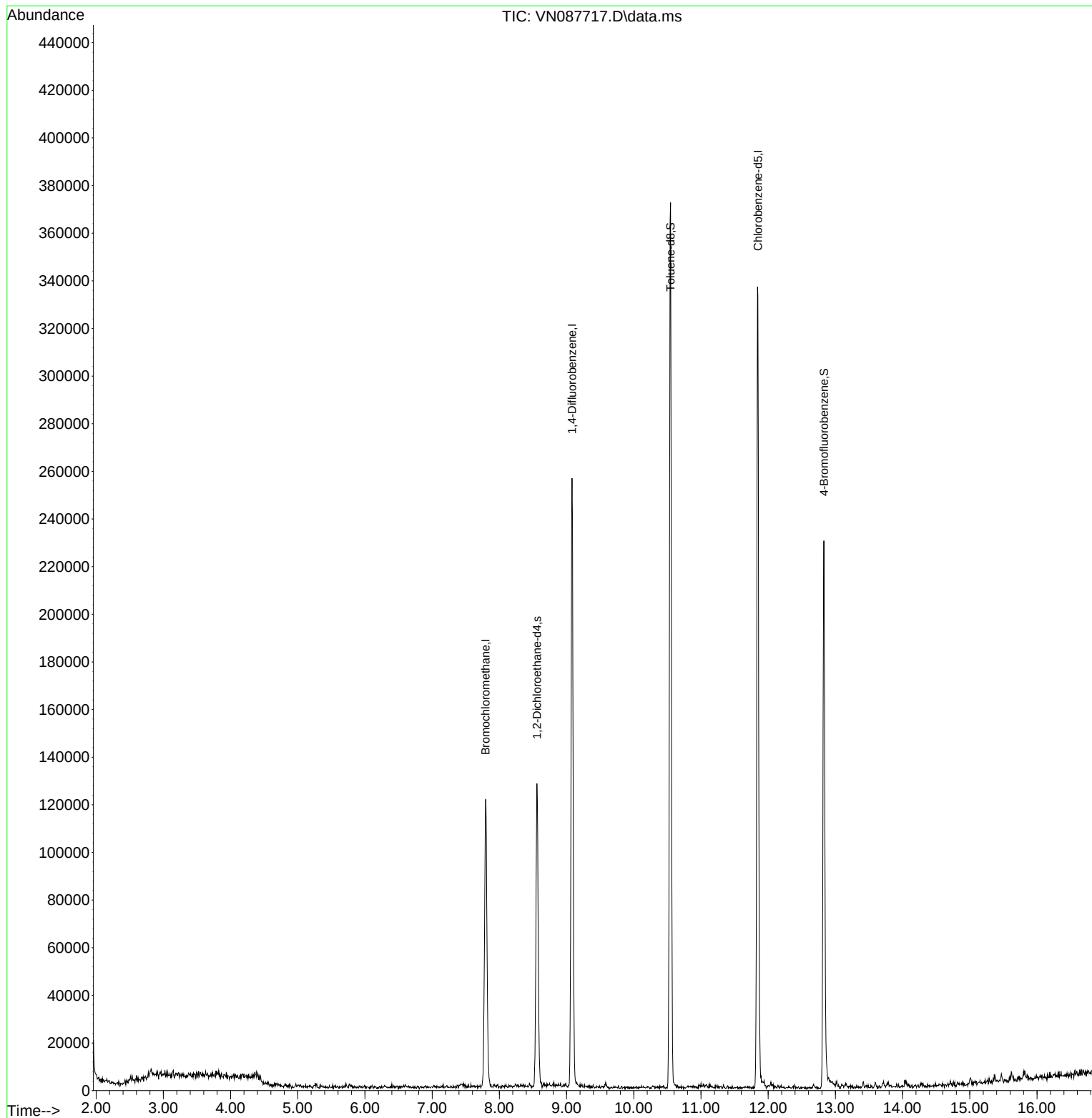
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

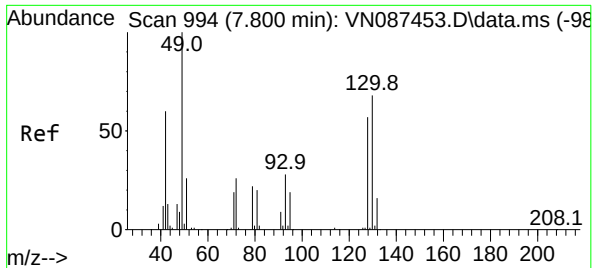
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Quant Time: Sep 05 02:19:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

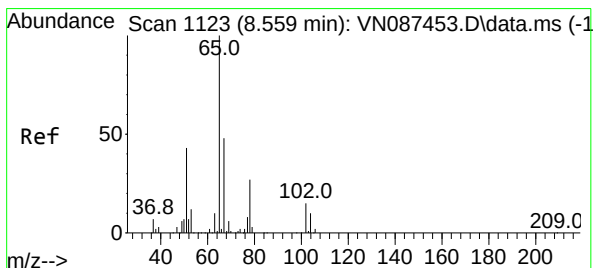
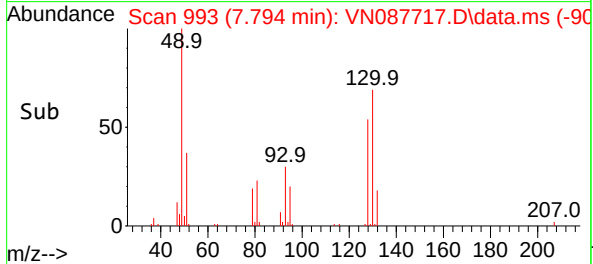
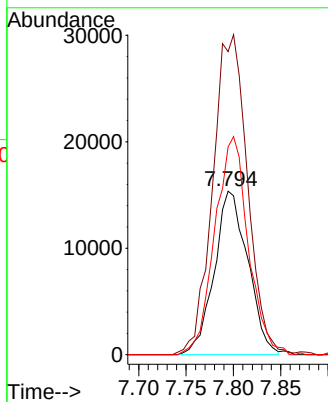
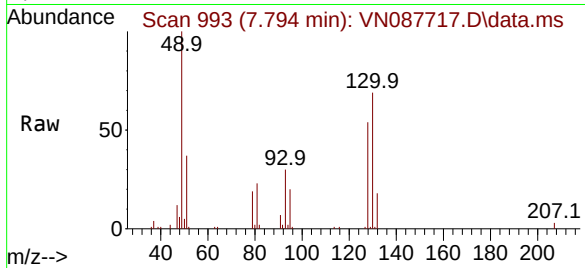




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087717.D  
Acq: 04 Sep 2025 12:59

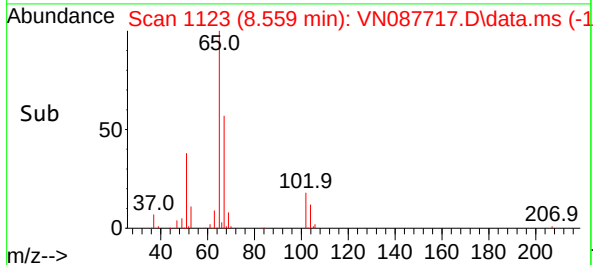
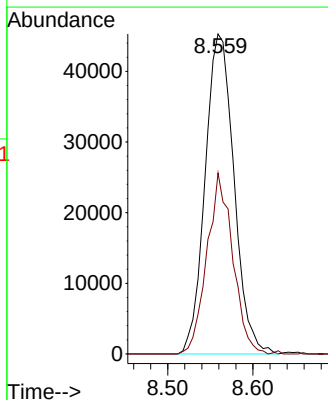
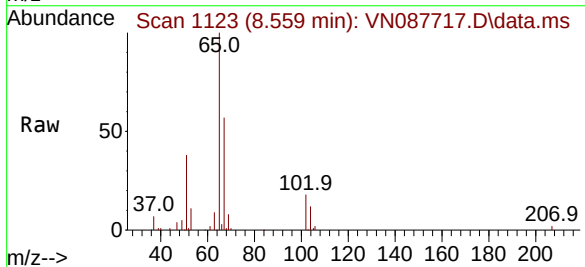
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

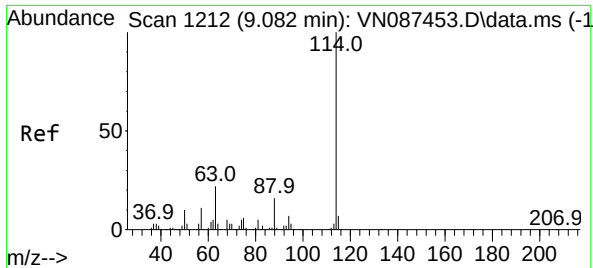
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 202.5 | 0.0   | 494.8 |
| 130     | 131.9 | 0.0   | 321.5 |



#27  
1,2-Dichloroethane-d4  
Concen: 30.517 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087717.D  
Acq: 04 Sep 2025 12:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 50.5  | 40.8  | 61.2  |





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087717.D

Acq: 04 Sep 2025 12:59

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBL01

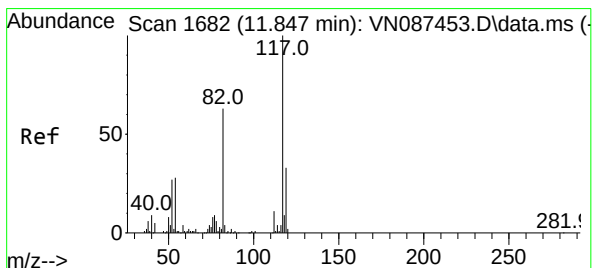
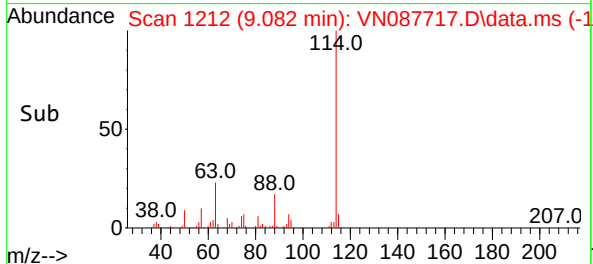
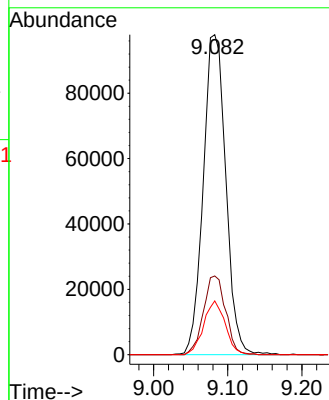
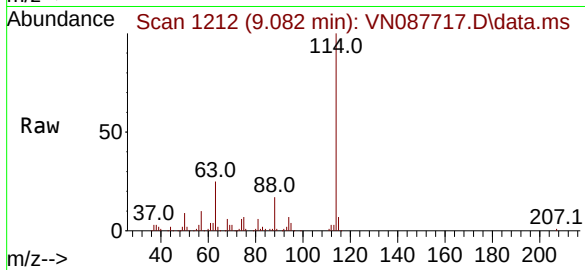
Tgt Ion:114 Resp: 207176

Ion Ratio Lower Upper

114 100

63 24.1 18.9 28.3

88 16.1 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VN087717.D

Acq: 04 Sep 2025 12:59

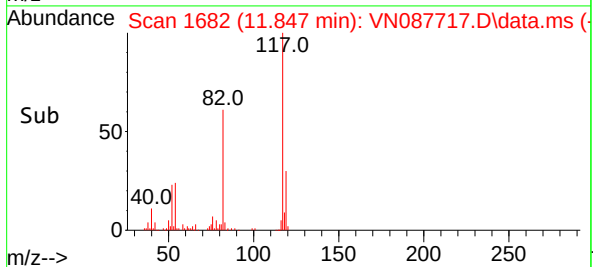
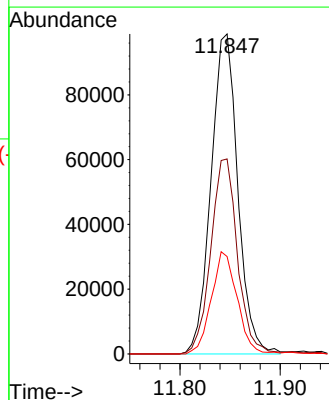
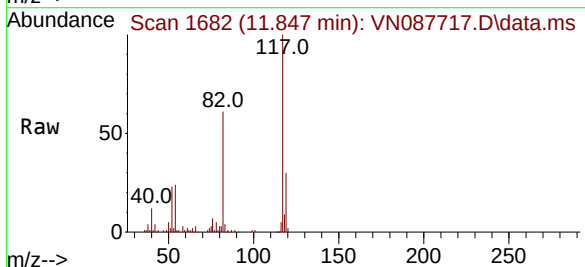
Tgt Ion:117 Resp: 183441

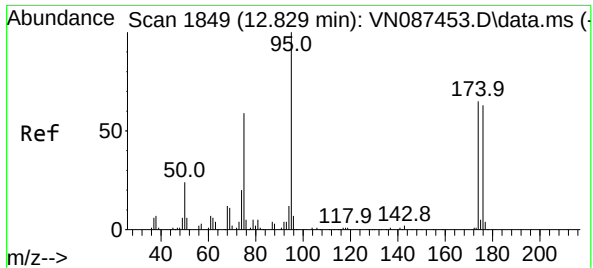
Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

119 30.7 25.7 38.5

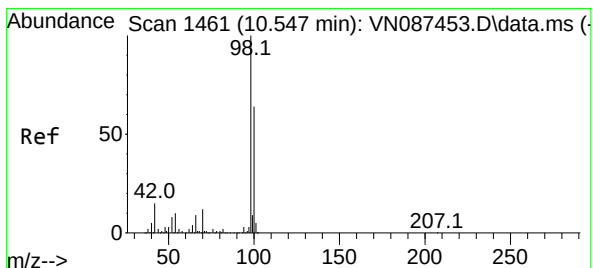
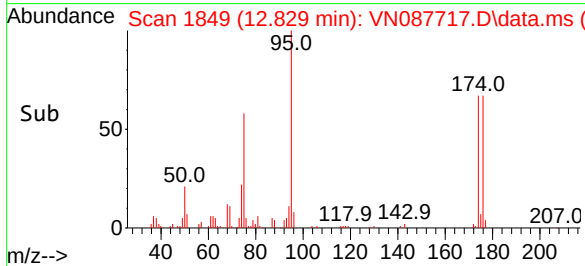
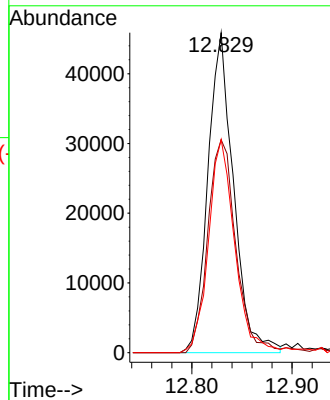
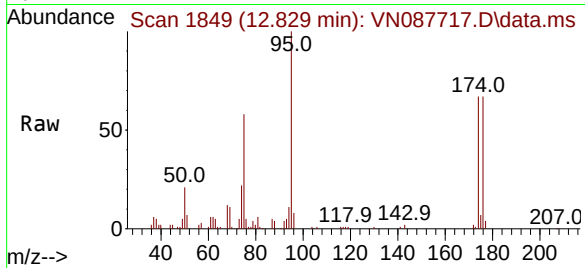




#60  
4-Bromofluorobenzene  
Concen: 25.902 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087717.D  
Acq: 04 Sep 2025 12:59

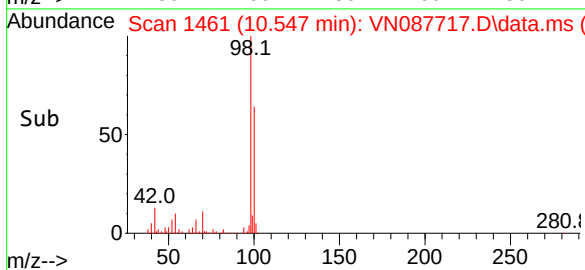
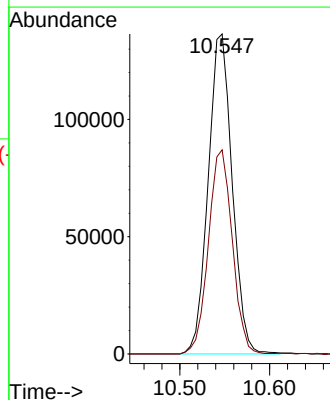
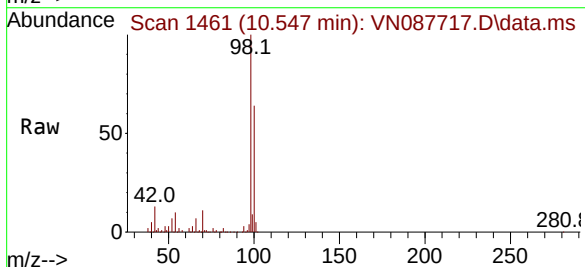
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Tgt Ion: 95 Resp: 81770  
Ion Ratio Lower Upper  
95 100  
174 71.4 52.3 78.5  
176 67.9 49.8 74.8



#63  
Toluene-d8  
Concen: 30.063 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087717.D  
Acq: 04 Sep 2025 12:59

Tgt Ion: 98 Resp: 253748  
Ion Ratio Lower Upper  
98 100  
100 63.3 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087717.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 7.794       | 981           | 993         | 1005         | rBV      | 121046         | 310994        | 44.04%          | 10.698%       |
| 2         | 8.559       | 1114          | 1123        | 1136         | rVB      | 127669         | 295440        | 41.84%          | 10.163%       |
| 3         | 9.082       | 1204          | 1212        | 1222         | rBV2     | 254966         | 533323        | 75.52%          | 18.345%       |
| 4         | 10.547      | 1452          | 1461        | 1469         | rBV      | 372039         | 706179        | 100.00%         | 24.291%       |
| 5         | 11.841      | 1671          | 1681        | 1691         | rBV      | 336681         | 631995        | 89.50%          | 21.739%       |
| 6         | 12.829      | 1841          | 1849        | 1859         | rBV2     | 229842         | 429219        | 60.78%          | 14.764%       |

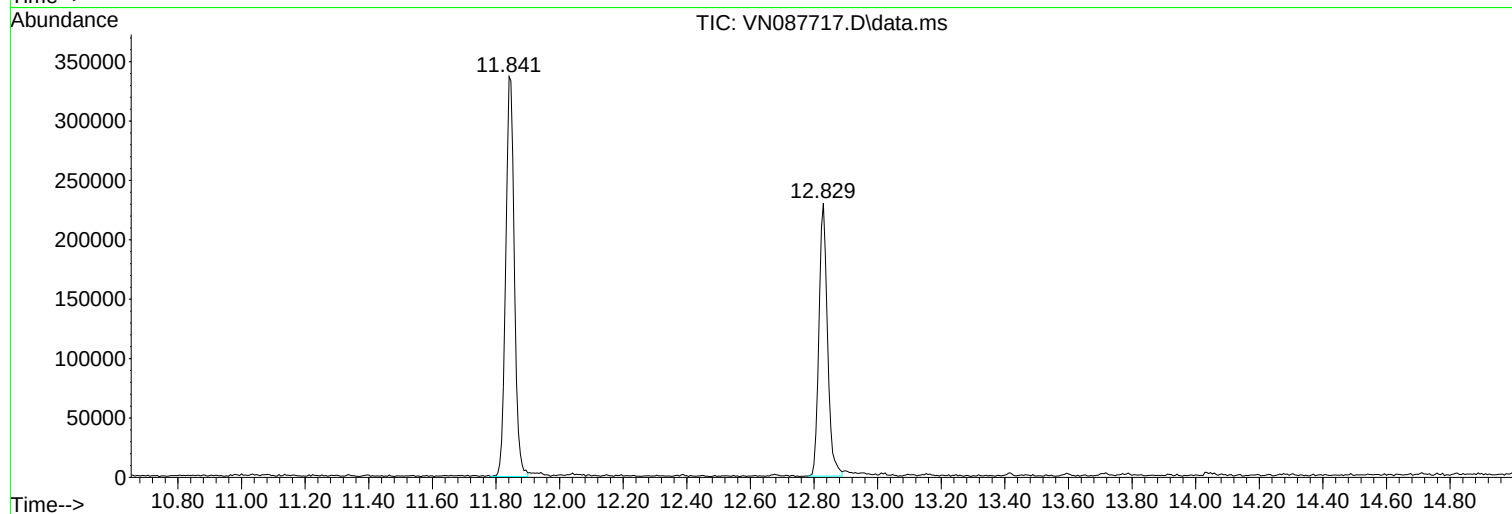
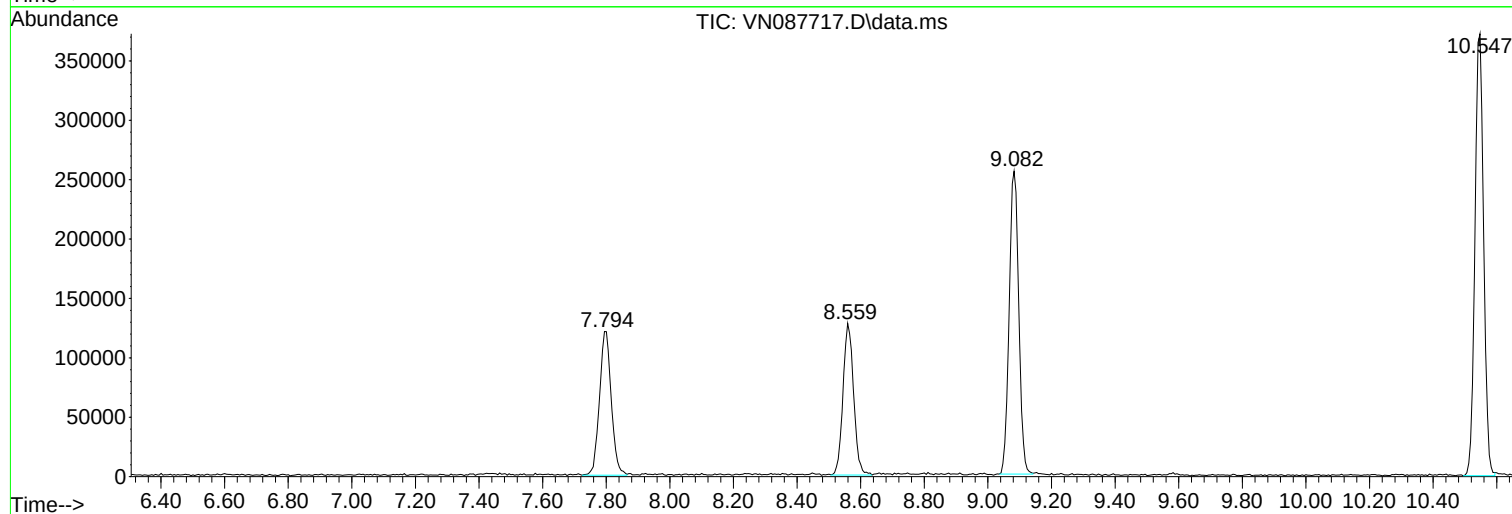
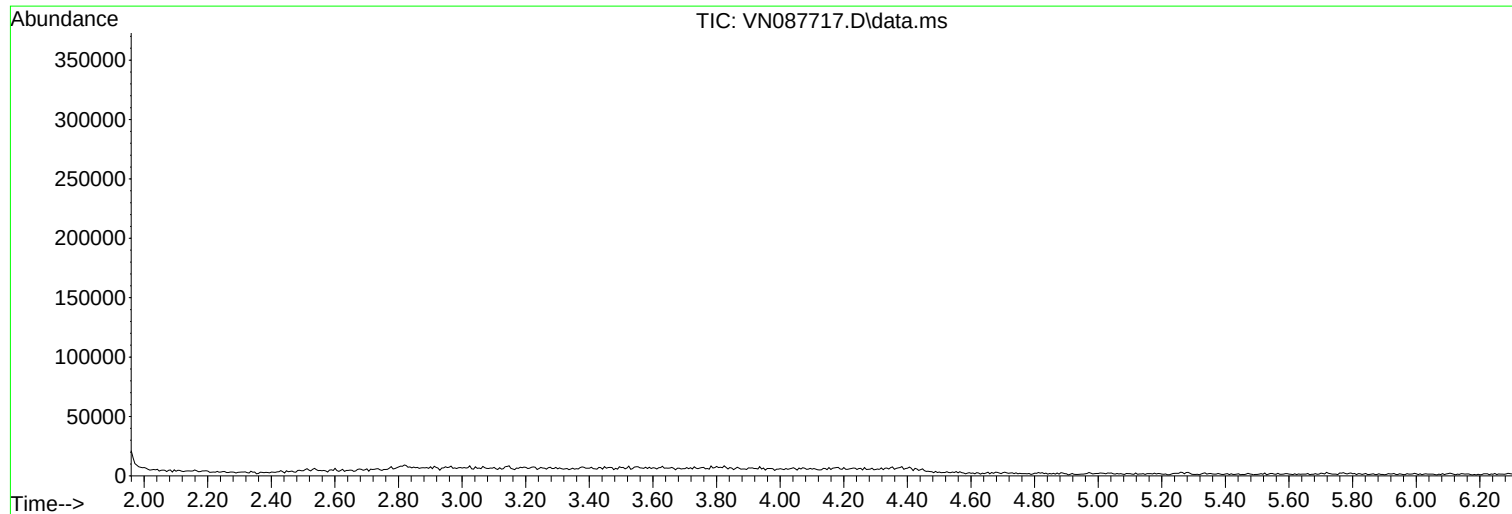
Sum of corrected areas: 2907150

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

\*\*\*\*\*



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087717.D  
Acq On : 04 Sep 2025 12:59  
Operator : JC\MD  
Sample : VN0904WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

-----

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: |                              |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  |                              |
| Client Sample ID:  | VN0904WBS01                               | SDG No.:        | Q3017                        |
| Lab Sample ID:     | VN0904WBS01                               | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087715.D        | 1         | 09/04/25 12:04 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 19.4  |           | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 18.8  |           | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 20.2  |           | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 26.2  |           | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 20.8  |           | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 22.0  |           | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 23.3  |           | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 22.5  |           | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 100   |           | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 18.1  |           | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 17.1  |           | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 21.8  |           | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 18.9  |           | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 18.1  |           | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 18.9  |           | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 17.4  |           | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 91.6  |           | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 19.5  |           | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 18.3  |           | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 18.9  |           | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 19.9  |           | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 17.6  |           | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 19.1  |           | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 18.3  |           | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 19.3  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 19.5  |           | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 18.9  |           | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 91.2  |           | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 19.0  |           | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 17.7  |           | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |
|--------------------|-------------------------------|-----------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: |               |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  |               |
| Client Sample ID:  | VN0904WBS01                   |           | SDG No.:        | Q3017         |
| Lab Sample ID:     | VN0904WBS01                   |           | Matrix:         | Water         |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087715.D        | 1         | 09/04/25 12:04 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 18.4   |           | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 19.7   |           | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 83.6   |           | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 18.8   |           | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 19.4   |           | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 20.2   |           | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 19.2   |           | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 18.4   |           | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 37.6   |           | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 17.9   |           | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 18.0   |           | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 18.0   |           | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 18.5   |           | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 19.7   |           | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 18.3   |           | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 19.4   |           | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 19.7   |           | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 19.8   |           | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 18.1   |           | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 18.5   |           | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 18.5   |           | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 28.6   |           | 91 - 110 | 95%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 30.1   |           | 91 - 112 | 100%       | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 27.6   |           | 63 - 112 | 92%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 43400  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 231000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 210000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: |                              |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  |                              |
| Client Sample ID:  | VN0904WBS01                               | SDG No.:        | Q3017                        |
| Lab Sample ID:     | VN0904WBS01                               | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087715.D        | 1         | 09/04/25 12:04 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin  
 Yesilyurt

09/05/2025  
 Supervised By : Mahesh  
 Dadoda

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.794  | 128  | 43425    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.082  | 114  | 231247   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 210355   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 114466   | 28.579   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 95.267%  |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 99936    | 27.606   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 92.033%  |
| 63) Toluene-d8              | 10.547 | 98    | 291239   | 30.090   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 100.300% |

|                              |       |     |        |         |        |        |
|------------------------------|-------|-----|--------|---------|--------|--------|
| Target Compounds             |       |     |        |         |        | Qvalue |
| 2) Dichlorodifluoromethane   | 2.142 | 85  | 54934  | 19.376  | ug/l   | 99     |
| 3) Chloromethane             | 2.383 | 50  | 54828  | 18.849  | ug/l   | 97     |
| 4) Vinyl Chloride            | 2.536 | 62  | 62242  | 20.174  | ug/l   | 91     |
| 5) Bromomethane              | 2.983 | 94  | 43809  | 26.234  | ug/l   | 87     |
| 6) Chloroethane              | 3.142 | 64  | 41428  | 20.824  | ug/l   | 97     |
| 7) Trichlorofluoromethane    | 3.512 | 101 | 97817  | 22.030  | ug/l   | 97     |
| 8) Diethyl Ether             | 3.959 | 74  | 38375  | 20.745  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluo... | 4.377 | 101 | 52713m | 23.281  | ug/l   |        |
| 10) 1,1-Dichloroethene       | 4.342 | 96  | 53428  | 22.464  | ug/l   | 85     |
| 11) Methyl Iodide            | 4.577 | 142 | 33539  | 17.910  | ug/l   | 96     |
| 12) Methyl Acetate           | 5.018 | 43  | 95525  | 21.765  | ug/l   | 93     |
| 13) Acrolein                 | 4.177 | 56  | 63454  | 94.659  | ug/l   | 99     |
| 14) Acrylonitrile            | 5.700 | 53  | 171327 | 89.396  | ug/l   | 99     |
| 15) Acetone                  | 4.424 | 58  | 55649  | 101.625 | ug/l   | 96     |
| 16) Carbon Disulfide         | 4.700 | 76  | 133566 | 18.104  | ug/l   | 99     |
| 17) Allyl chloride           | 5.012 | 41  | 85883  | 17.716  | ug/l   | 88     |
| 18) Methylene Chloride       | 5.265 | 84  | 57999  | 18.943  | ug/l   | 87     |
| 19) trans-1,2-Dichloroethene | 5.771 | 96  | 51291  | 18.135  | ug/l # | 86     |
| 20) Diisopropyl ether        | 6.653 | 45  | 195895 | 17.739  | ug/l   | 93     |
| 21) 1,1-Dichloroethane       | 6.553 | 63  | 108065 | 18.931  | ug/l   | 98     |
| 22) cis-1,2-Dichloroethene   | 7.471 | 96  | 63685  | 18.300  | ug/l   | 96     |
| 23) tert-Butyl Alcohol       | 5.524 | 59  | 61811  | 75.900  | ug/l # | 100    |
| 24) Methyl tert-Butyl Ether  | 5.789 | 73  | 185640 | 17.130  | ug/l   | 96     |
| 25) Chloroform               | 7.947 | 83  | 112463 | 18.874  | ug/l   | 91     |
| 26) Cyclohexane              | 8.241 | 56  | 79309  | 17.353  | ug/l # | 94     |
| 29) 1,1-Dichloropropene      | 8.347 | 75  | 73391  | 19.459  | ug/l   | 97     |
| 30) 2-Butanone               | 7.465 | 43  | 254727 | 91.624  | ug/l   | 99     |
| 31) 2,2-Dichloropropane      | 7.477 | 77  | 94769  | 19.482  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane    | 8.147 | 97  | 95796  | 19.915  | ug/l   | 96     |
| 33) Carbon Tetrachloride     | 8.341 | 117 | 77776  | 19.463  | ug/l   | 98     |
| 34) Benzene                  | 8.588 | 78  | 227927 | 19.144  | ug/l   | 94     |
| 35) Methacrylonitrile        | 7.765 | 41  | 50954  | 16.984  | ug/l   | 94     |
| 36) 1,2-Dichloroethane       | 8.647 | 62  | 88092  | 18.306  | ug/l   | 100    |
| 37) Trichloroethene          | 9.335 | 130 | 50547  | 19.274  | ug/l   | 83     |
| 38) Methylcyclohexane        | 9.582 | 83  | 77129  | 17.627  | ug/l   | 98     |
| 39) 1,2-Dichloropropane      | 9.600 | 63  | 59488  | 19.488  | ug/l   | 96     |
| 40) Dibromomethane           | 9.688 | 93  | 45777  | 19.987  | ug/l   | 96     |
| 41) Bromodichloromethane     | 9.865 | 83  | 90003  | 18.911  | ug/l   | 88     |
| 42) Vinyl Acetate            | 6.588 | 43  | 788902 | 86.167  | ug/l   | 98     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin  
 Yesilyurt

09/05/2025  
 Supervised By : Mahesh  
 Dadoda

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.541  | 43   | 96992    | 18.059  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 160457   | 17.624  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 19577    | 337.304 | ug/l # | 88       |
| 46) Methyl methacrylate       | 9.665  | 41   | 70145    | 16.322  | ug/l   | 82       |
| 47) n-amyl Acetate            | 12.665 | 43   | 87889m   | 17.475  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 91571    | 17.686  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 96006    | 18.425  | ug/l   | 90       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 56983    | 19.692  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 85447    | 16.766  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 98490    | 18.892  | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.335 | 129  | 62738    | 18.773  | ug/l   | 96       |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 59585    | 19.397  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 236450   | 88.133  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 39771    | 17.992  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.423 | 43   | 493774   | 91.248  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 307348   | 83.593  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 41450    | 20.226  | ug/l   | 94       |
| 62) Toluene                   | 10.606 | 91   | 246270   | 18.968  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 153403   | 19.229  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 53989    | 19.248  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 265786   | 18.367  | ug/l   | 99       |
| 67) m/p-Xylenes               | 12.053 | 106  | 199557   | 37.569  | ug/l   | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 93531    | 17.899  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 160997   | 18.043  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 246218   | 18.546  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 89634    | 19.705  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 84640m   | 19.973  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 60686    | 19.718  | ug/l   | 94       |
| 74) n-propylbenzene           | 13.012 | 91   | 312613   | 18.854  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 190294   | 18.658  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 208218   | 18.317  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 26432    | 16.477  | ug/l   | 86       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 194600   | 18.828  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.417 | 119  | 177581   | 18.529  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 211280   | 18.601  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 262011   | 18.779  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 218207   | 18.836  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 113472   | 19.362  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 117304   | 19.743  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 208098   | 18.360  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 43424    | 19.195  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 110728   | 19.793  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 20838    | 18.083  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 15.806 | 180  | 61968    | 18.535  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 22537    | 17.336  | ug/l   | 89       |
| 91) Naphthalene               | 15.617 | 128  | 221459   | 17.372  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.806 | 180  | 61968    | 18.535  | ug/l   | 99       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

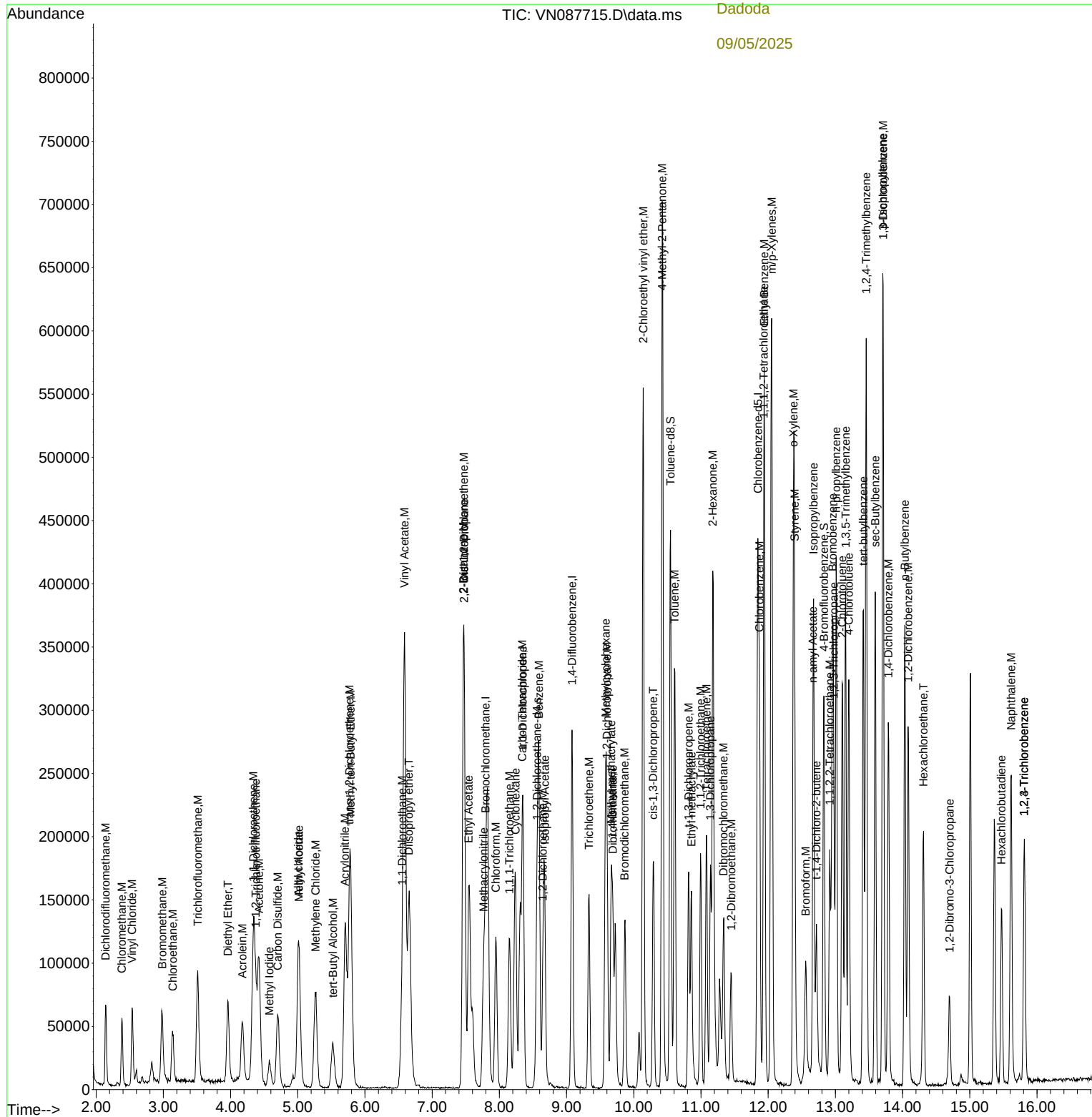
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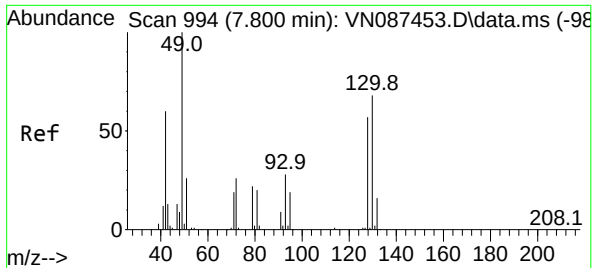
Reviewed By :Semsettin  
 Yesilyurt

09/05/2025  
 Supervised By :Mahesh  
 Dadoda

09/05/2025

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

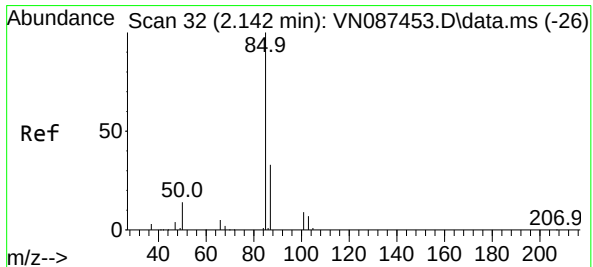
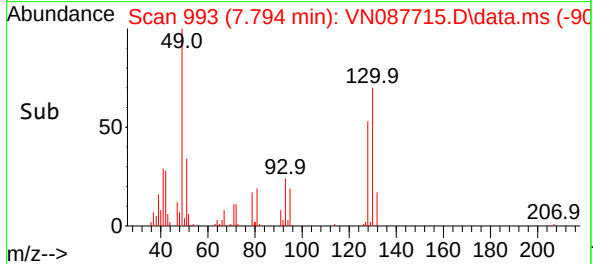
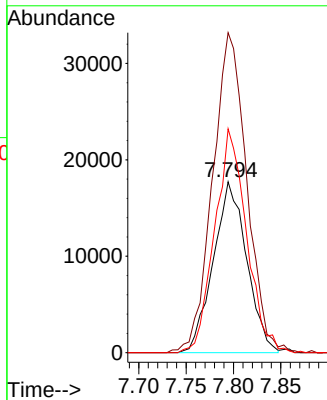
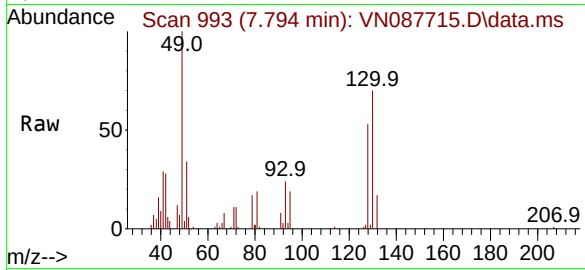
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 191.6 | 0.0   | 494.8 |
| 130     | 124.5 | 0.0   | 321.5 |

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

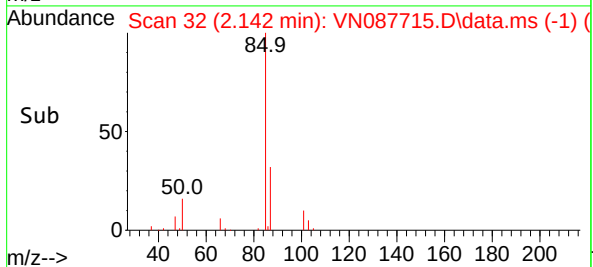
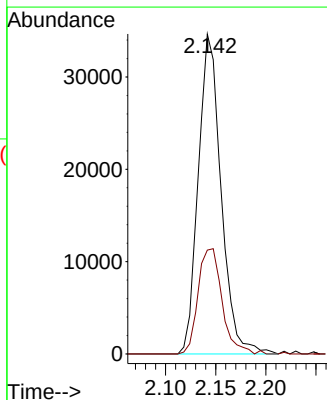
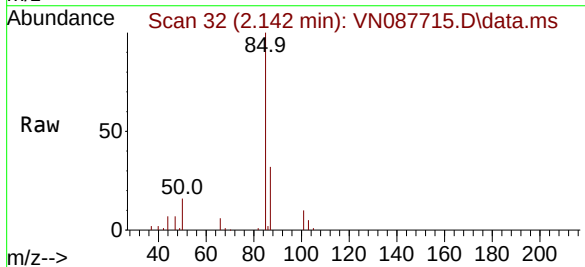
09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025

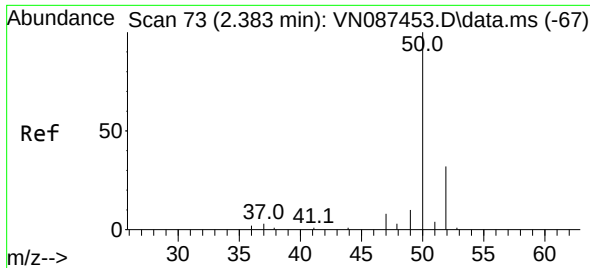


#2  
Dichlorodifluoromethane  
Concen: 19.376 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.5  | 16.4  | 49.2  |

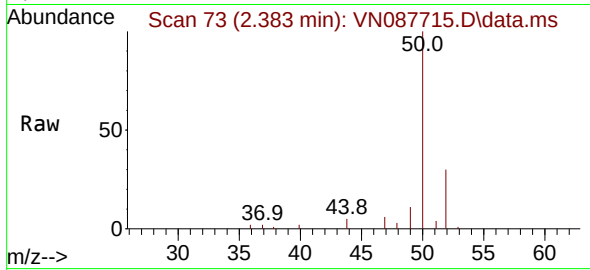






#3  
Chloromethane  
Concen: 18.849 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



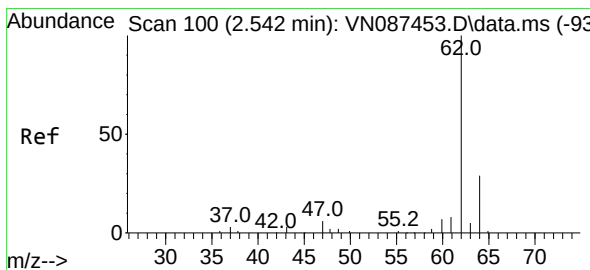
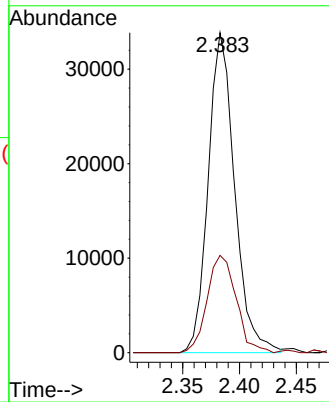
Tgt Ion: 50 Resp: 54828  
Ion Ratio Lower Upper  
50 100  
52 30.4 25.8 38.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

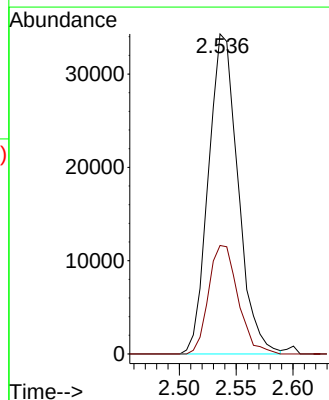
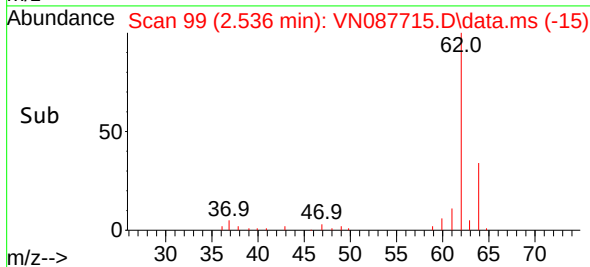
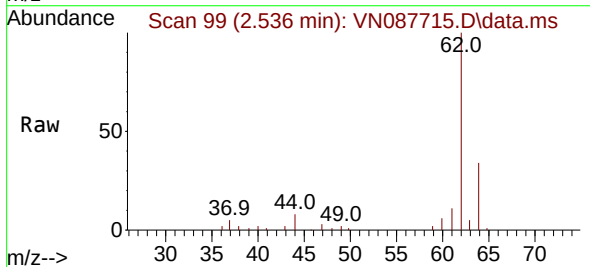
09/05/2025  
Supervised By :Mahesh  
Dadoda

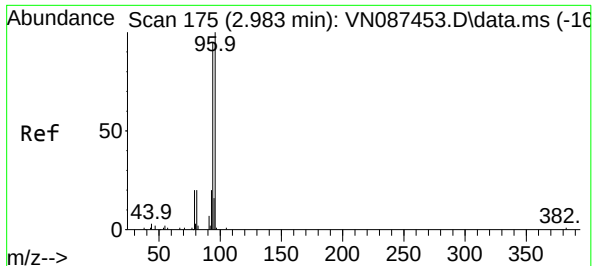
09/05/2025



#4  
Vinyl Chloride  
Concen: 20.174 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

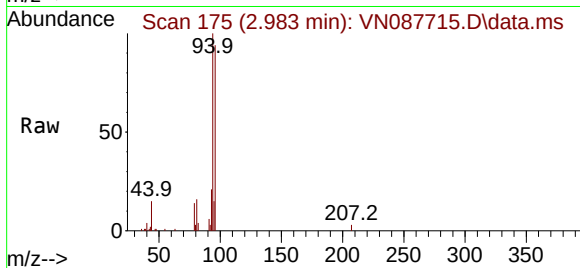
Tgt Ion: 62 Resp: 62242  
Ion Ratio Lower Upper  
62 100  
64 33.9 23.4 35.2





#5  
Bromomethane  
Concen: 26.234 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



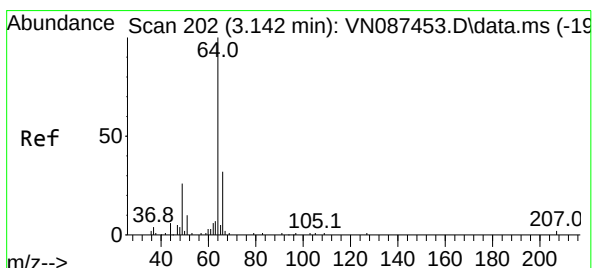
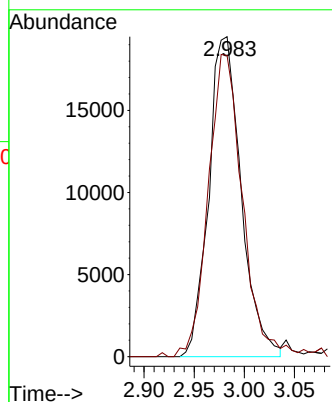
Tgt Ion: 94 Resp: 43809  
Ion Ratio Lower Upper  
94 100  
96 91.5 84.2 126.4

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

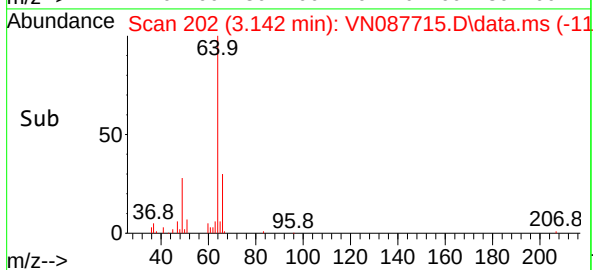
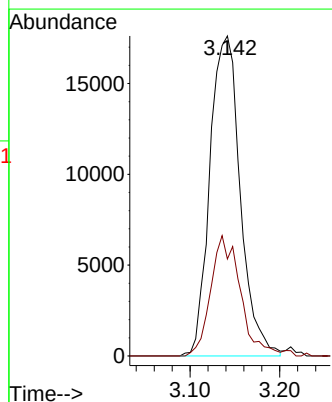
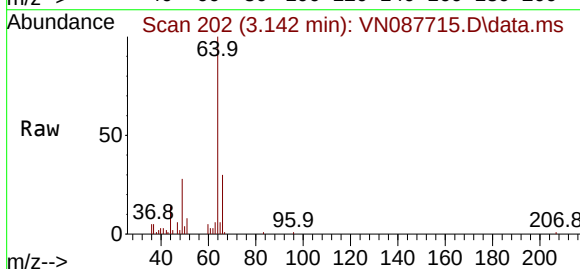
09/05/2025  
Supervised By :Mahesh  
Dadoda

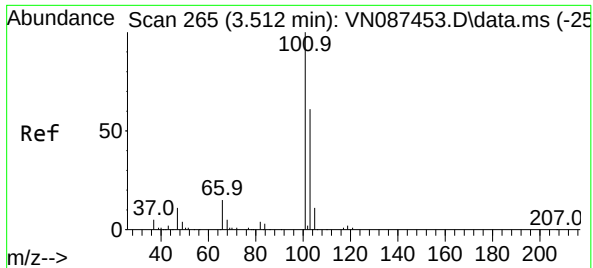
09/05/2025



#6  
Chloroethane  
Concen: 20.824 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

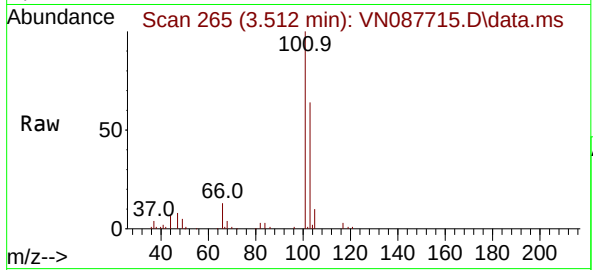
Tgt Ion: 64 Resp: 41428  
Ion Ratio Lower Upper  
64 100  
66 30.3 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 22.030 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



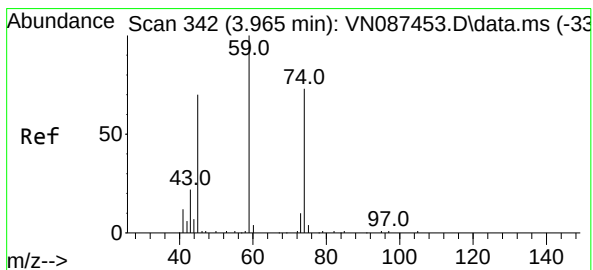
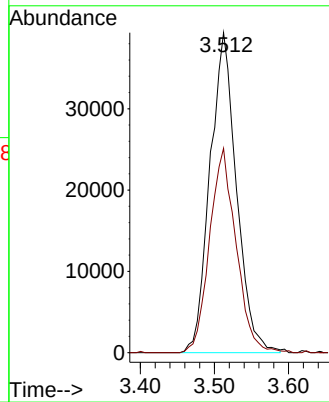
Tgt Ion:101 Resp: 9781  
Ion Ratio Lower Upper  
101 100  
103 63.9 49.2 73.8

Manual Integrations  
**APPROVED**

Reviewed By :Semsettin  
Yesilyurt

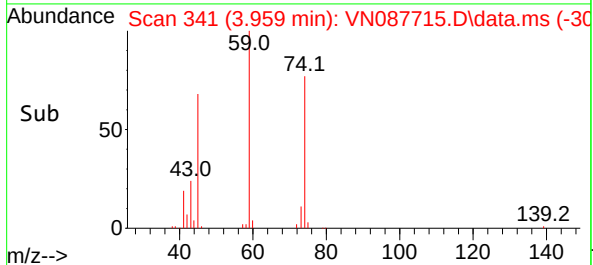
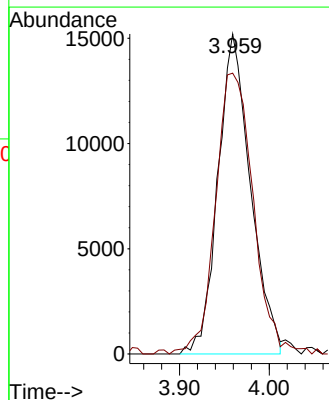
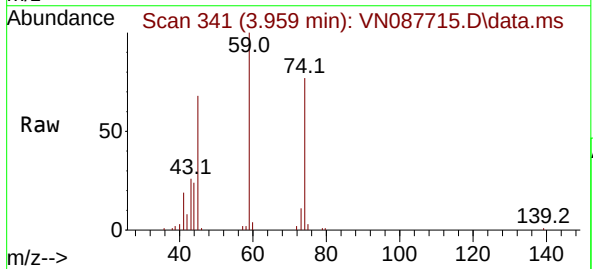
09/05/2025  
Supervised By :Mahesh  
Dadoda

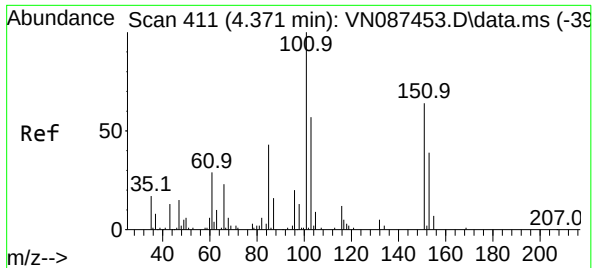
09/05/2025



#8  
Diethyl Ether  
Concen: 20.745 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 74 Resp: 38375  
Ion Ratio Lower Upper  
74 100  
45 99.2 20.1 180.9





#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 23.281 ug/l m  
RT: 4.377 min Scan# 411  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

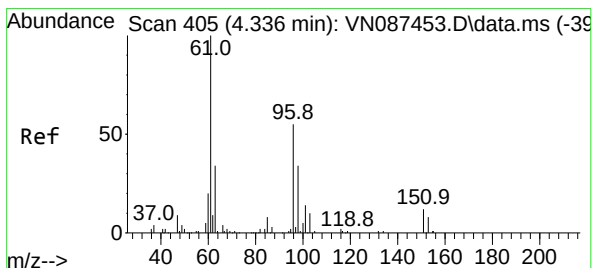
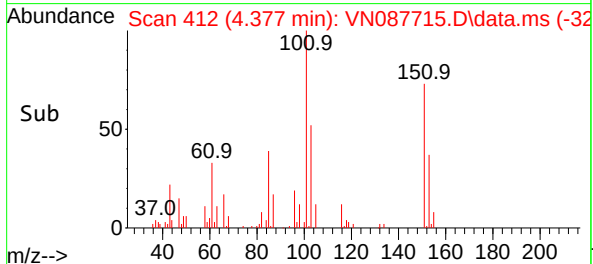
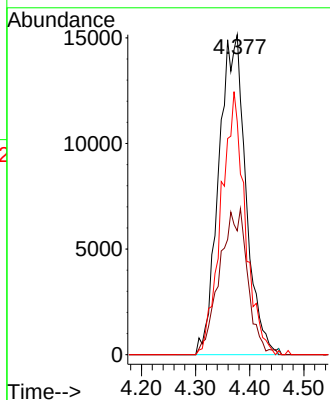
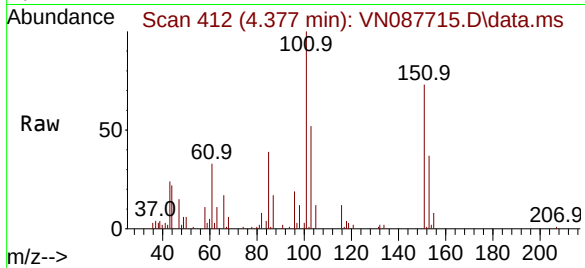
Tgt Ion:101 Resp: 5271  
Ion Ratio Lower Upper  
101 100  
85 30.5 0.0 57.0  
151 72.7 0.0 134.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

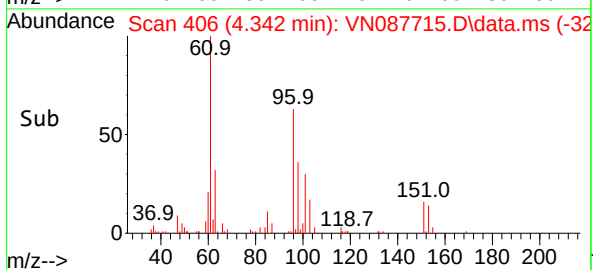
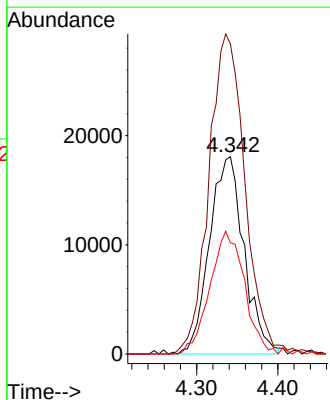
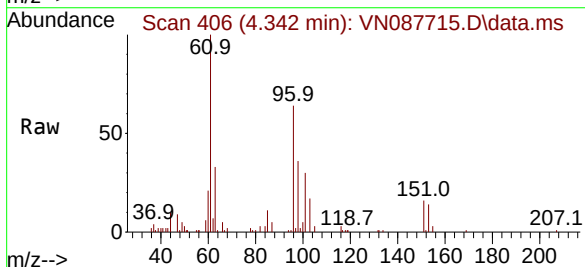
09/05/2025  
Supervised By :Mahesh  
Dadoda

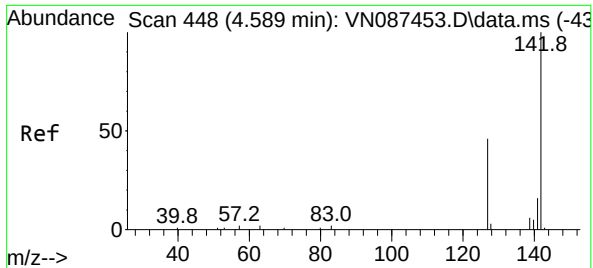
09/05/2025



#10  
1,1-Dichloroethene  
Concen: 22.464 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

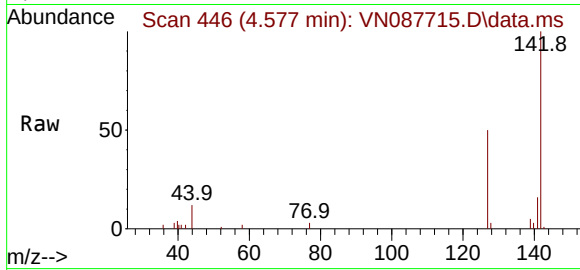
Tgt Ion: 96 Resp: 53428  
Ion Ratio Lower Upper  
96 100  
61 155.3 144.2 216.4  
98 56.4 49.7 74.5





#11  
Methyl Iodide  
Concen: 17.910 ug/l  
RT: 4.577 min Scan# 448  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



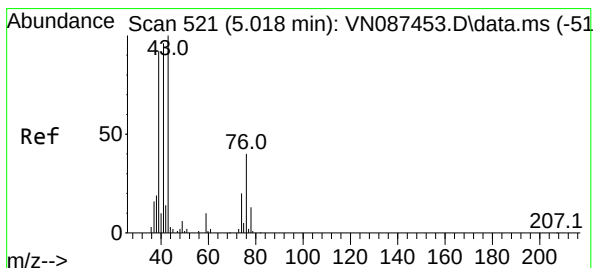
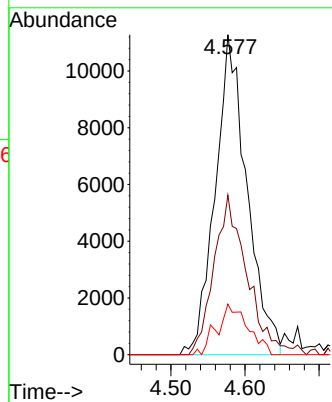
Tgt Ion:142 Resp: 33539  
Ion Ratio Lower Upper  
142 100  
127 49.2 22.9 68.7  
141 16.1 7.7 23.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

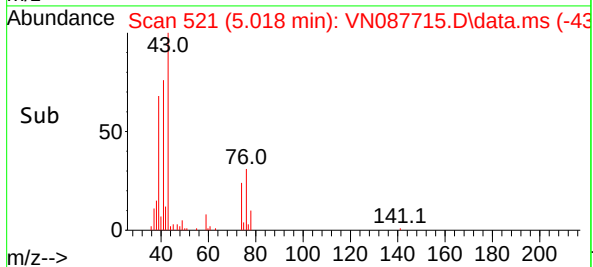
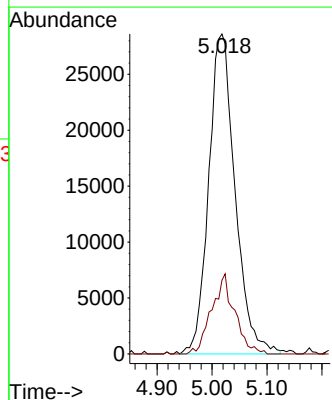
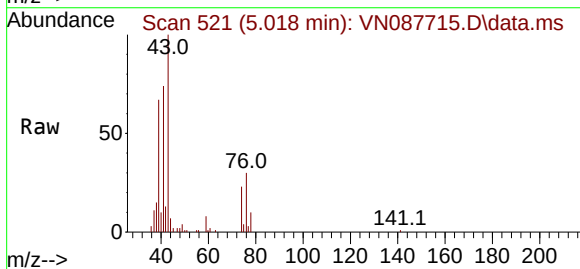
09/05/2025  
Supervised By :Mahesh  
Dadoda

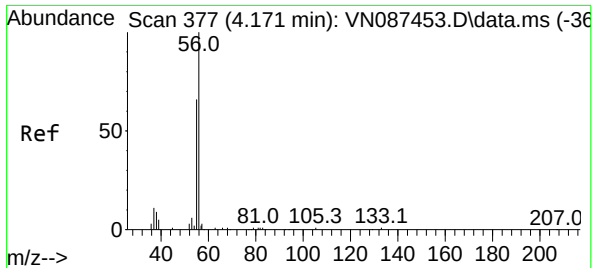
09/05/2025



#12  
Methyl Acetate  
Concen: 21.765 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

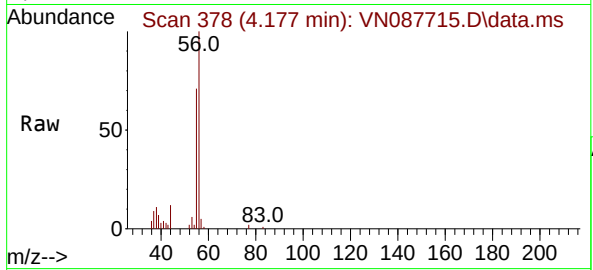
Tgt Ion: 43 Resp: 95525  
Ion Ratio Lower Upper  
43 100  
74 23.2 16.0 24.0





#13  
Acrolein  
Concen: 94.659 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



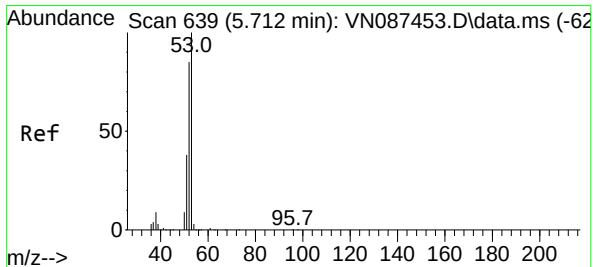
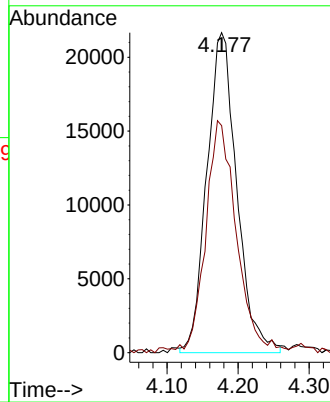
Tgt Ion: 56 Resp: 63454  
Ion Ratio Lower Upper  
56 100  
55 72.4 57.4 86.0

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

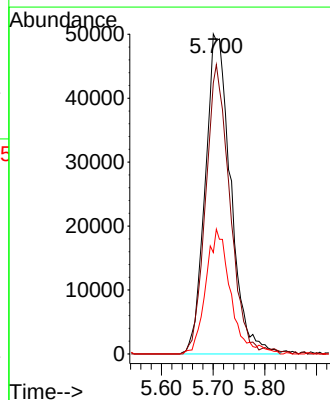
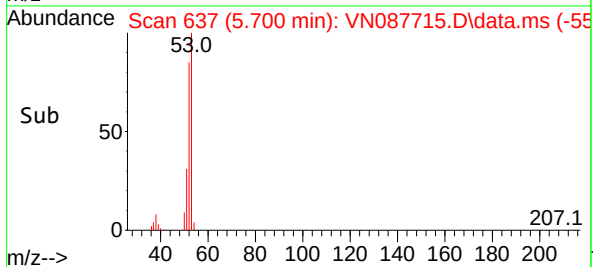
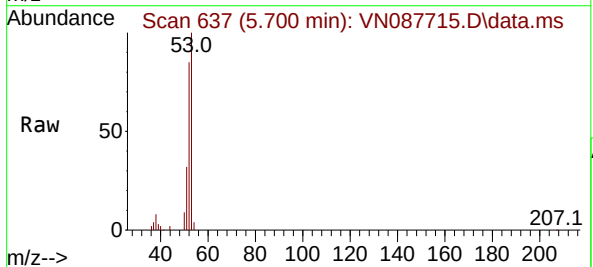
09/05/2025  
Supervised By :Mahesh  
Dadoda

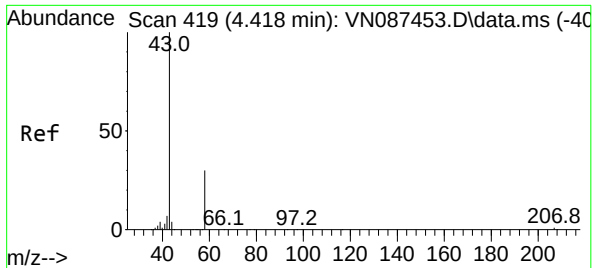
09/05/2025



#14  
Acrylonitrile  
Concen: 89.396 ug/l  
RT: 5.700 min Scan# 637  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

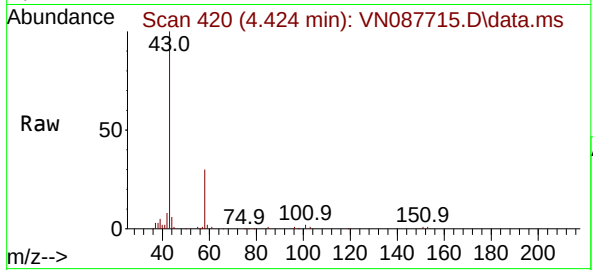
Tgt Ion: 53 Resp: 171327  
Ion Ratio Lower Upper  
53 100  
52 85.2 42.4 127.2  
51 34.7 18.5 55.5





#15  
Acetone  
Concen: 101.625 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



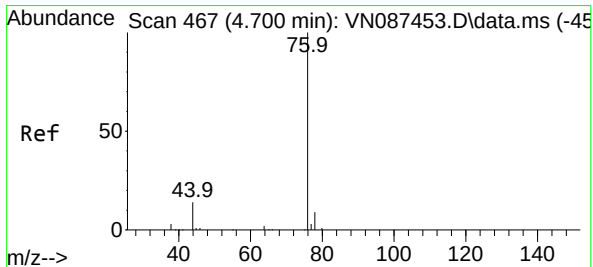
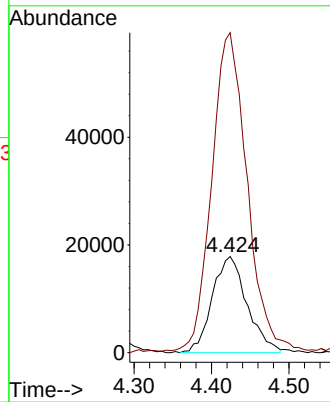
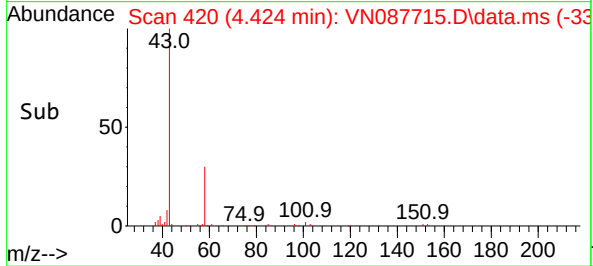
Tgt Ion: 58 Resp: 55649  
Ion Ratio Lower Upper  
58 100  
43 328.5 268.9 403.3

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

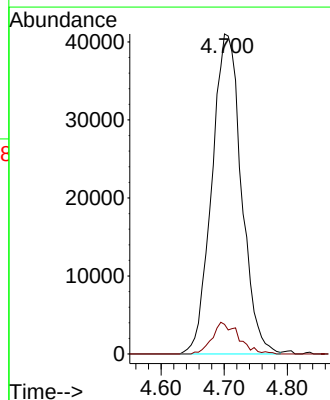
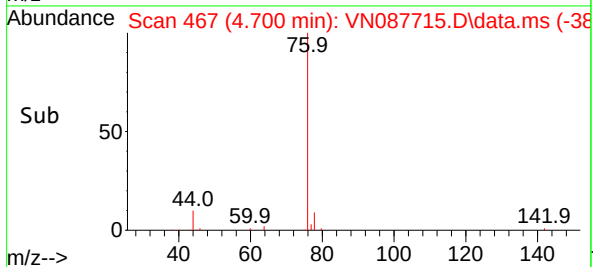
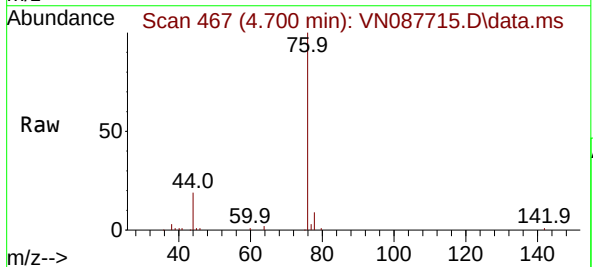
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Supervised By :Mahesh  
Dadoda

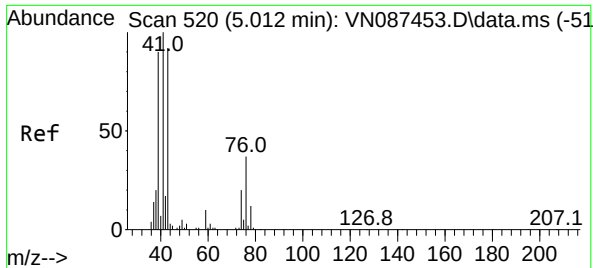
09/05/2025



#16  
Carbon Disulfide  
Concen: 18.104 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 76 Resp: 133566  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7





#17

Allyl chloride

Concen: 17.716 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 41 Resp: 8588

Ion Ratio Lower Upper

41 100

39 70.1 42.4 127.2

76 34.4 16.9 50.6

Manual Integrations

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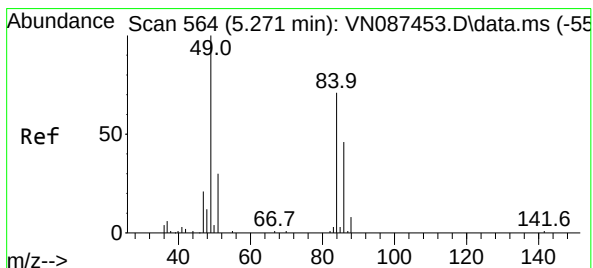
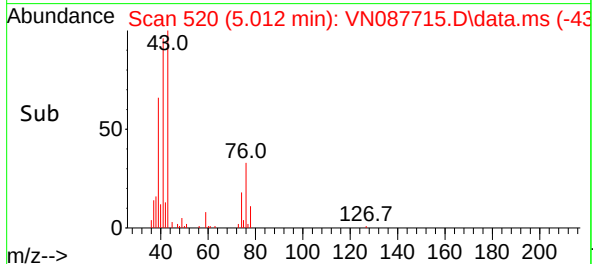
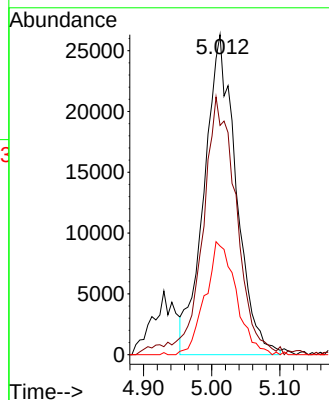
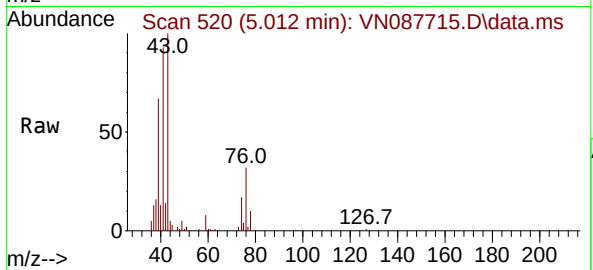
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#18

Methylene Chloride

Concen: 18.943 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion: 84 Resp: 57999

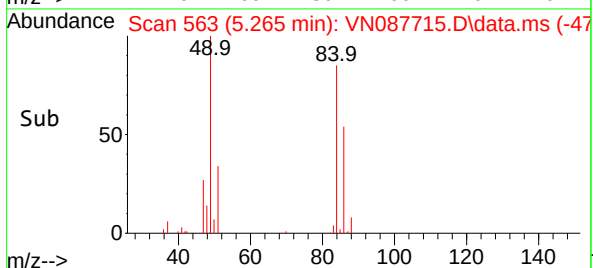
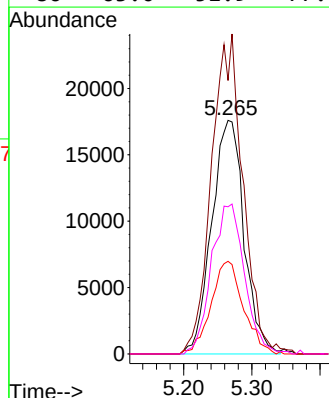
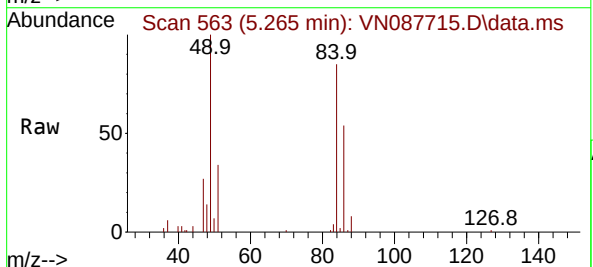
Ion Ratio Lower Upper

84 100

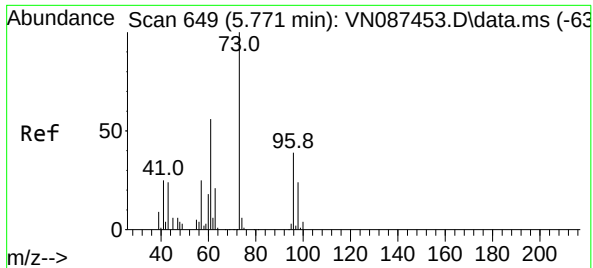
49 117.0 112.9 169.3

51 39.6 33.8 50.8

86 63.0 51.9 77.9







#19

trans-1,2-Dichloroethene

Concen: 18.135 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.000 min

Lab File: VN087715.D

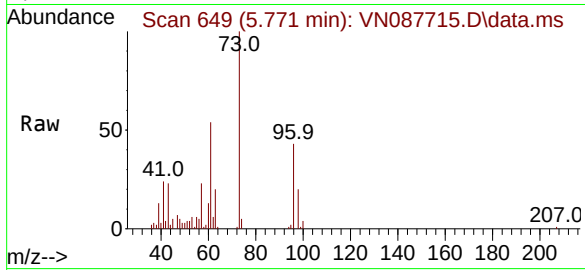
Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01



Tgt Ion: 96 Resp: 5129

Ion Ratio Lower Upper

96 100

61 127.2 114.2 171.4

98 47.4 48.7 73.1

Manual Integrations

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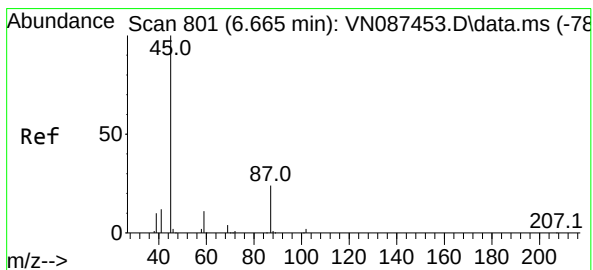
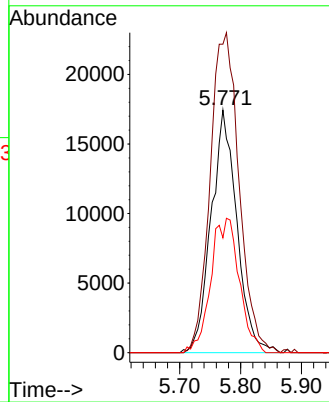
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#20

Diisopropyl ether

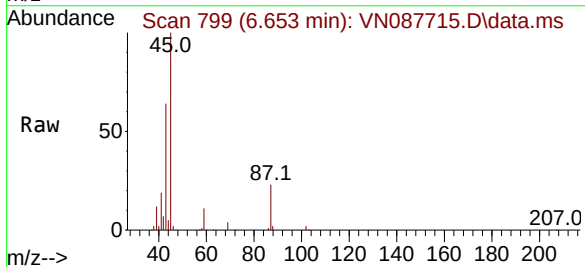
Concen: 17.739 ug/l

RT: 6.653 min Scan# 799

Delta R.T. -0.012 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04



Tgt Ion: 45 Resp: 195895

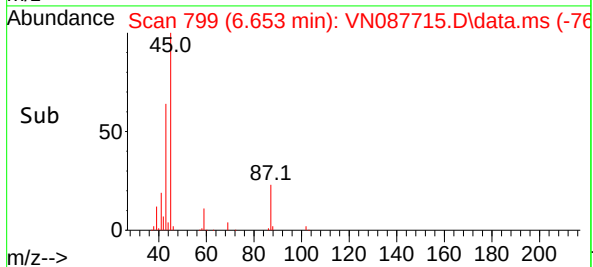
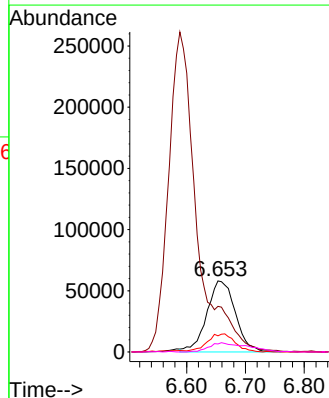
Ion Ratio Lower Upper

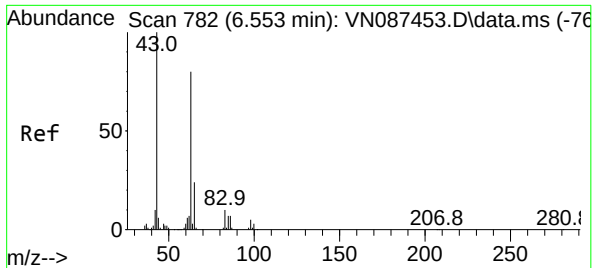
45 100

43 63.0 44.7 67.1

87 22.5 20.2 30.2

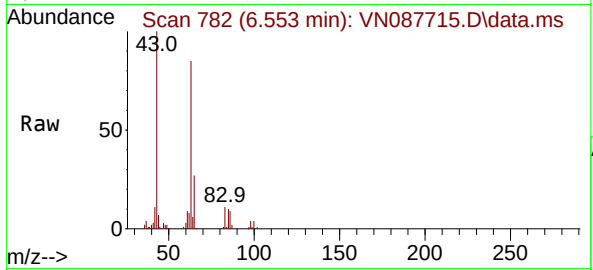
59 11.3 8.7 13.1





#21  
1,1-Dichloroethane  
Concen: 18.931 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



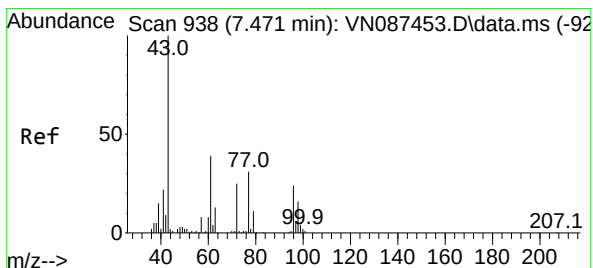
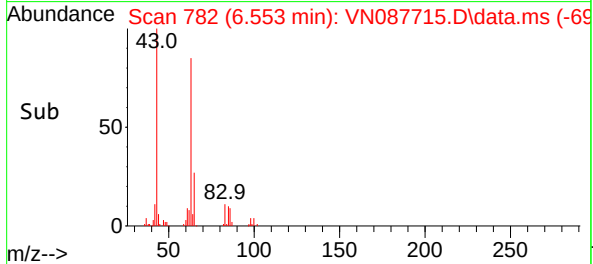
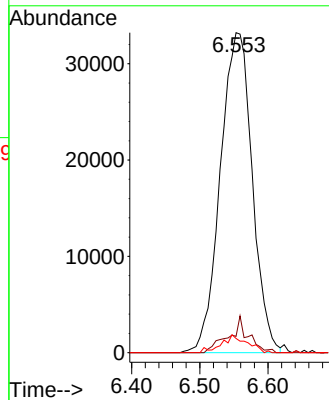
Tgt Ion: 63 Resp: 108065  
Ion Ratio Lower Upper  
63 100  
98 5.1 3.0 9.0  
100 4.5 1.9 5.7

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

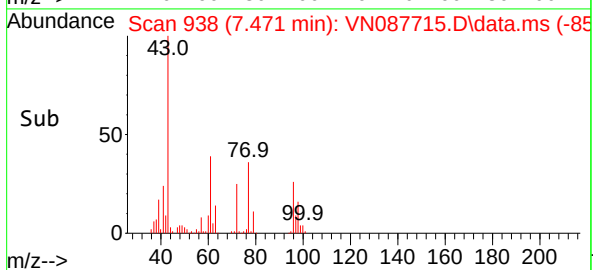
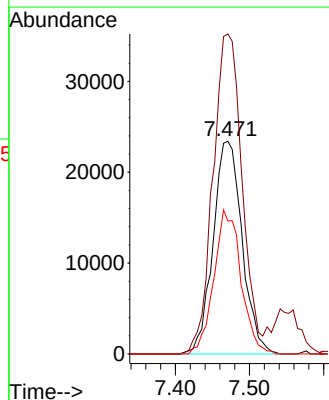
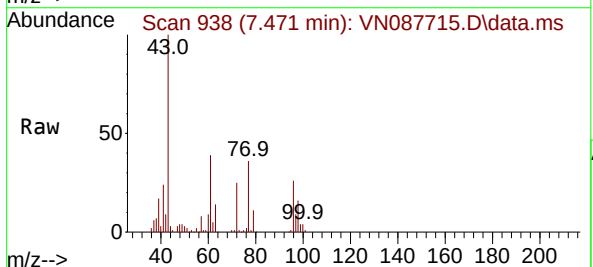
09/05/2025  
Supervised By :Mahesh  
Dadoda

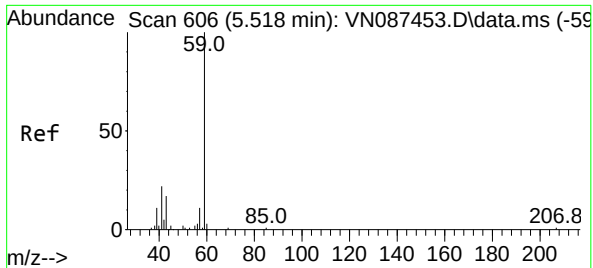
09/05/2025



#22  
cis-1,2-Dichloroethene  
Concen: 18.300 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

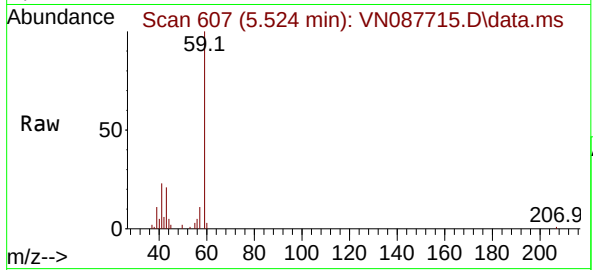
Tgt Ion: 96 Resp: 63685  
Ion Ratio Lower Upper  
96 100  
61 150.8 126.6 190.0  
98 63.1 50.9 76.3





#23  
tert-Butyl Alcohol  
Concen: 75.900 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



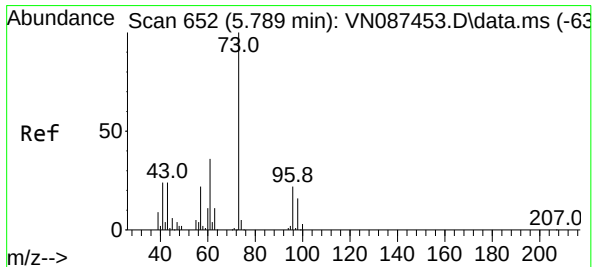
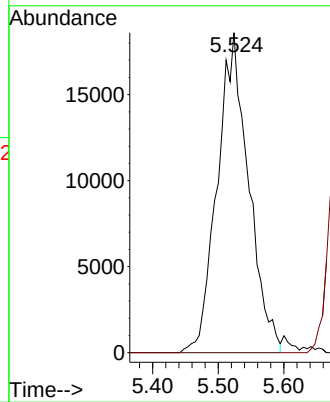
Tgt Ion: 59 Resp: 6181  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

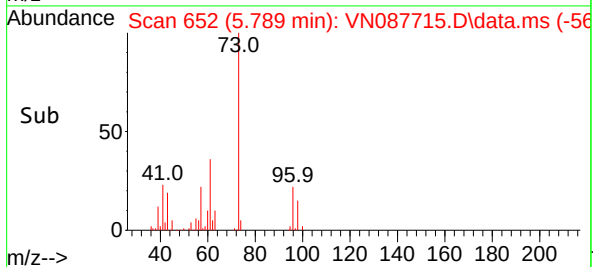
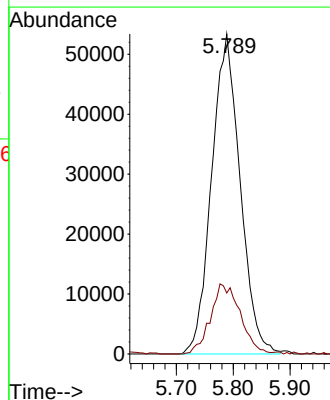
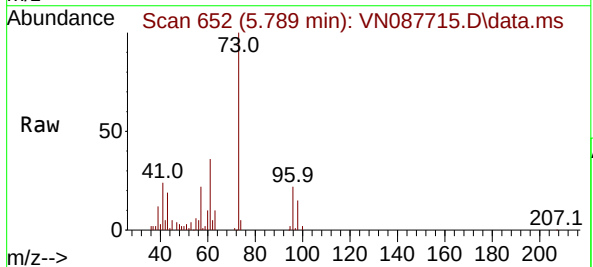
09/05/2025  
Supervised By :Mahesh  
Dadoda

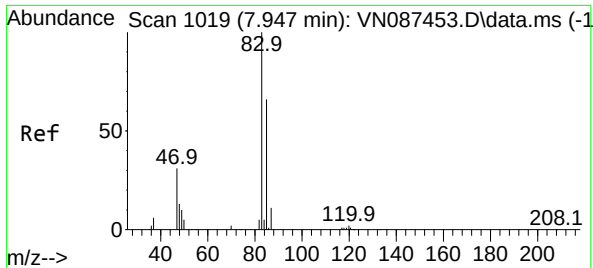
09/05/2025



#24  
Methyl tert-Butyl Ether  
Concen: 17.130 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

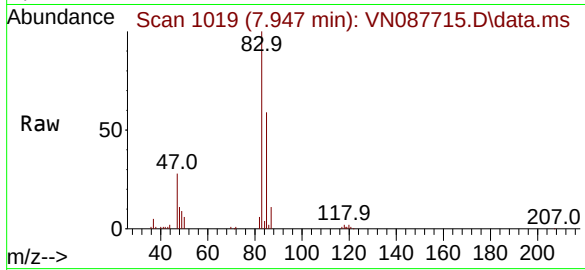
Tgt Ion: 73 Resp: 185640  
Ion Ratio Lower Upper  
73 100  
43 22.9 19.9 29.9





#25  
Chloroform  
Concen: 18.874 ug/l  
RT: 7.947 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



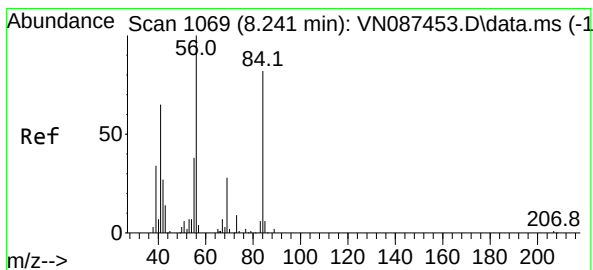
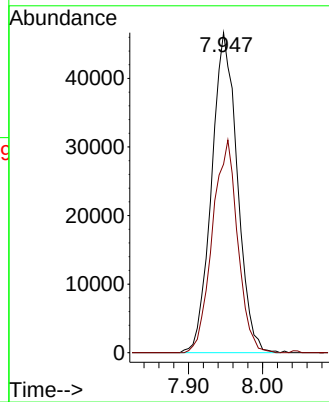
Tgt Ion: 83 Resp: 11246  
Ion Ratio Lower Upper  
83 100  
85 58.9 52.6 78.8

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

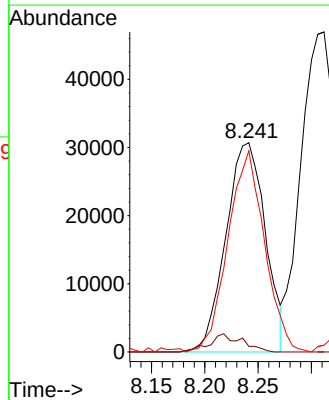
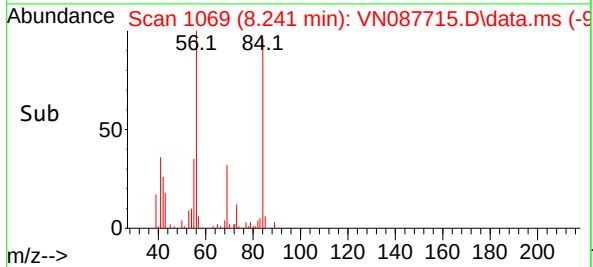
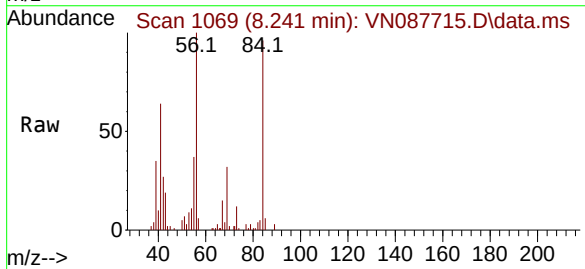
09/05/2025  
Supervised By :Mahesh  
Dadoda

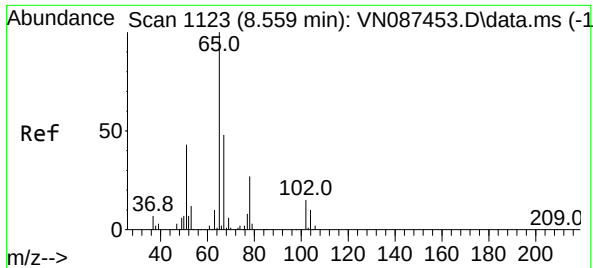
09/05/2025



#26  
Cyclohexane  
Concen: 17.353 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

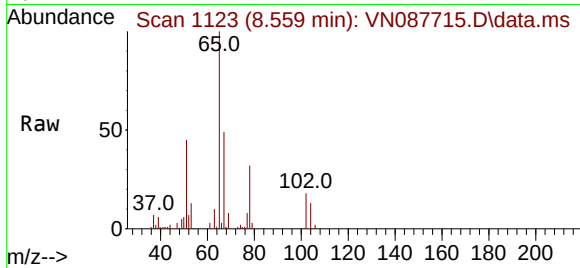
Tgt Ion: 56 Resp: 79309  
Ion Ratio Lower Upper  
56 100  
89 2.0 2.3 3.5#  
84 89.0 67.0 100.4





#27  
1,2-Dichloroethane-d4  
Concen: 28.579 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



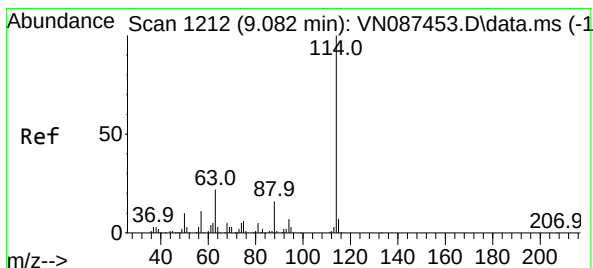
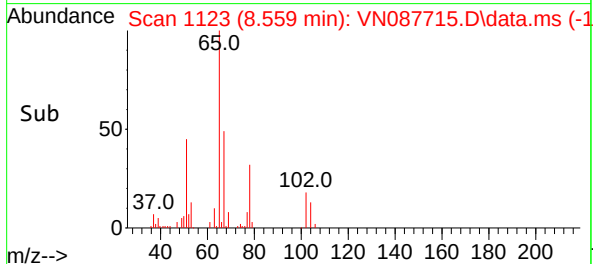
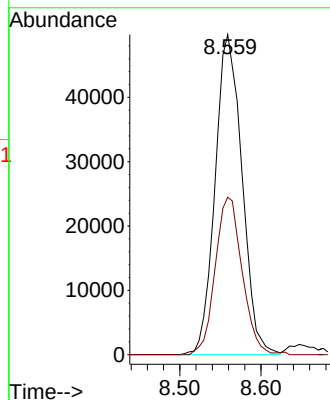
Tgt Ion: 65 Resp: 114460  
Ion Ratio Lower Upper  
65 100  
67 49.1 40.8 61.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

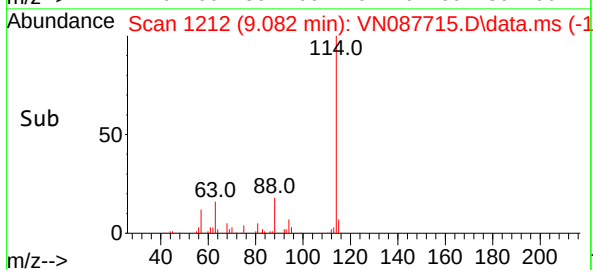
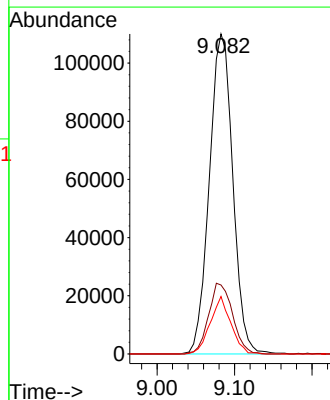
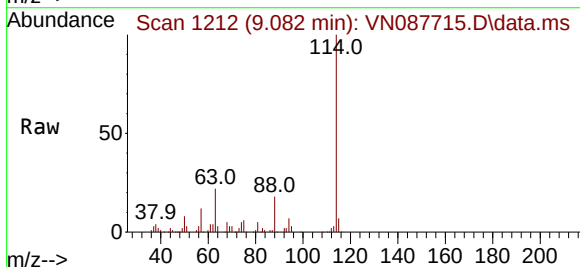
09/05/2025  
Supervised By :Mahesh  
Dadoda

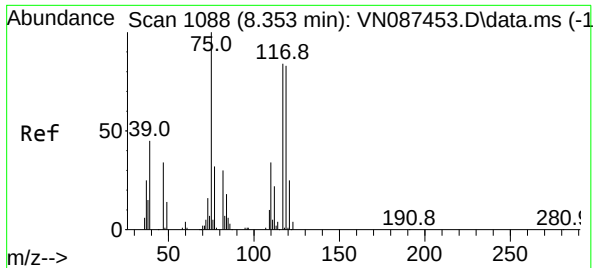
09/05/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:114 Resp: 231247  
Ion Ratio Lower Upper  
114 100  
63 22.5 18.9 28.3  
88 15.7 13.1 19.7





#29

1,1-Dichloropropene

Concen: 19.459 ug/l

RT: 8.347 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

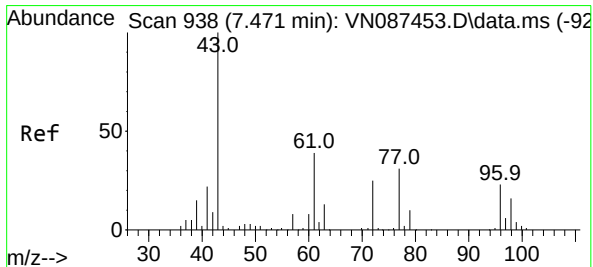
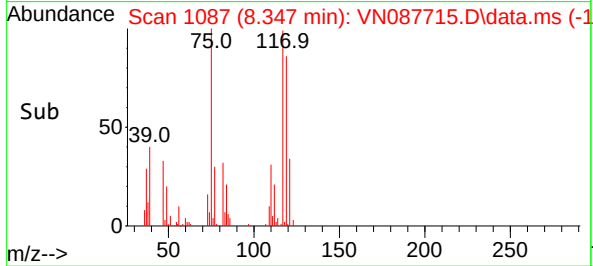
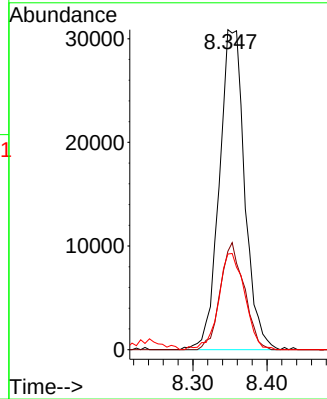
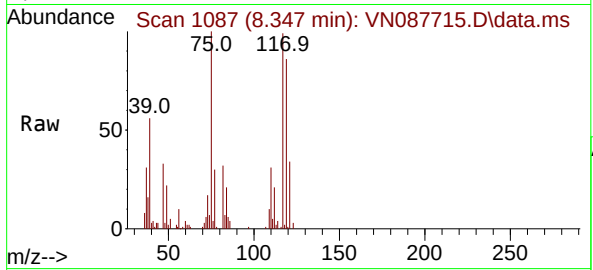
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 7339  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 31.7    | 0.0 65.8    |
| 77 29.3     | 0.0 63.6    |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#30

2-Butanone

Concen: 91.624 ug/l

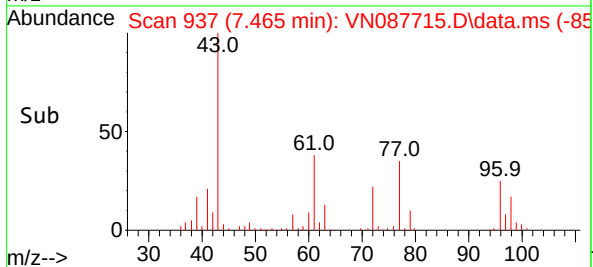
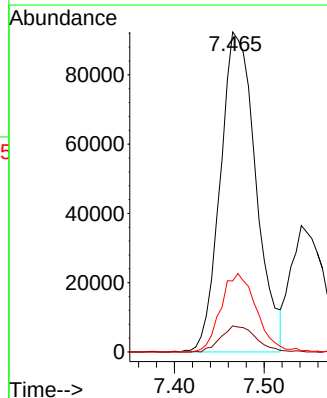
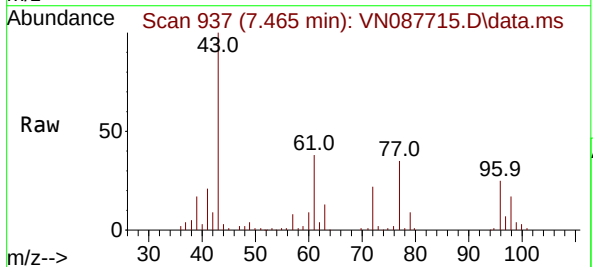
RT: 7.465 min Scan# 937

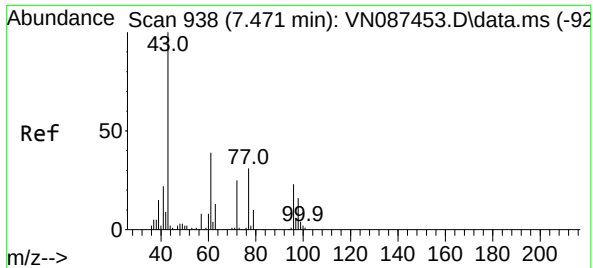
Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

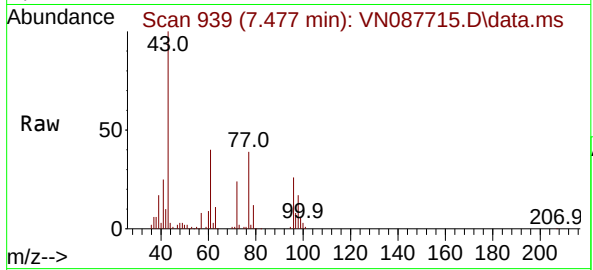
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 254727 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.0      | 6.6 9.8      |
| 72 24.3     | 19.7 29.5    |





#31  
2,2-Dichloropropane  
Concen: 19.482 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



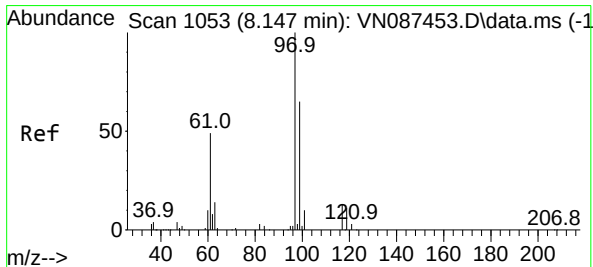
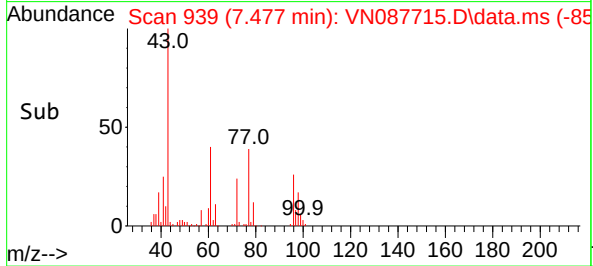
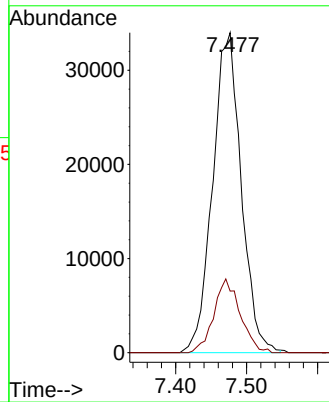
Tgt Ion: 77 Resp: 94769  
Ion Ratio Lower Upper  
77 100  
97 21.1 16.7 25.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

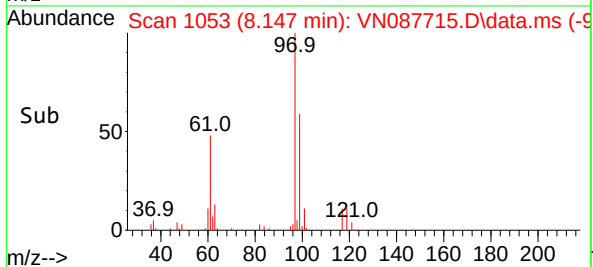
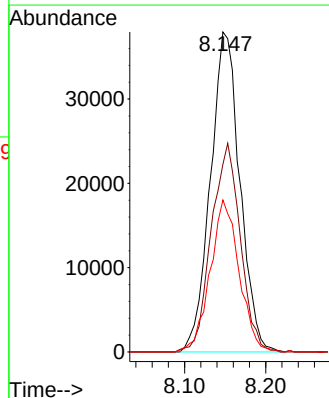
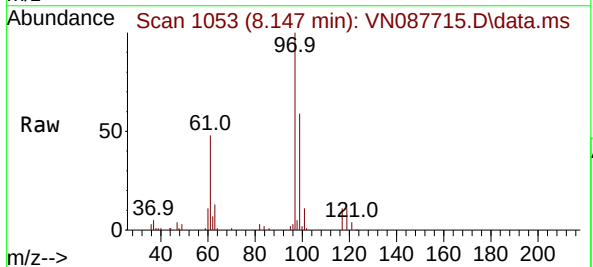
09/05/2025  
Supervised By :Mahesh  
Dadoda

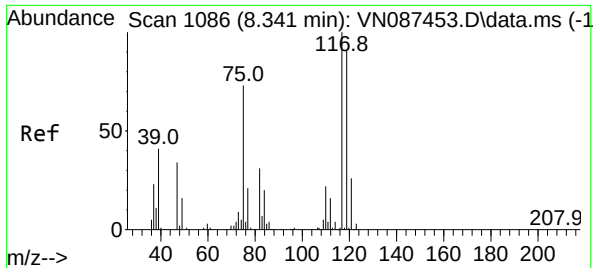
09/05/2025



#32  
1,1,1-Trichloroethane  
Concen: 19.915 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 97 Resp: 95796  
Ion Ratio Lower Upper  
97 100  
99 63.9 53.0 79.6  
61 46.7 40.6 61.0





#33

Carbon Tetrachloride

Concen: 19.463 ug/l

RT: 8.341 min Scan# 1086

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 7777  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 90.8  | 73.4  | 110.0 |
| 121       | 28.6  | 21.1  | 31.7  |

Manual Integrations

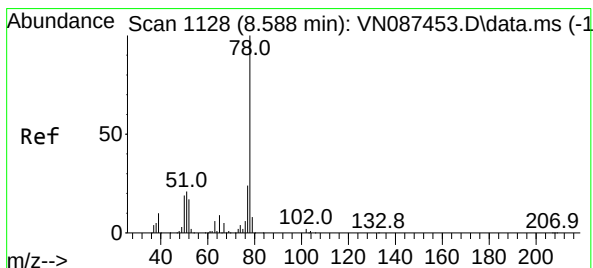
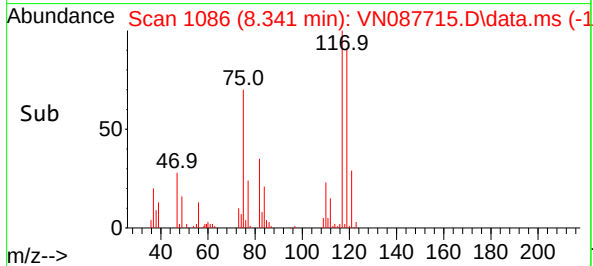
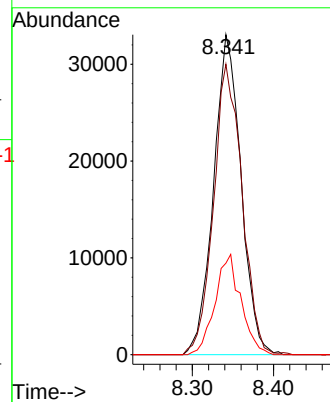
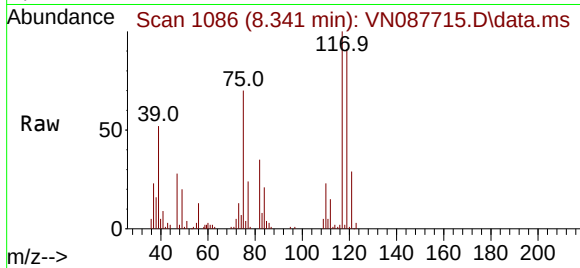
APPROVED

Reviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#34

Benzene

Concen: 19.144 ug/l

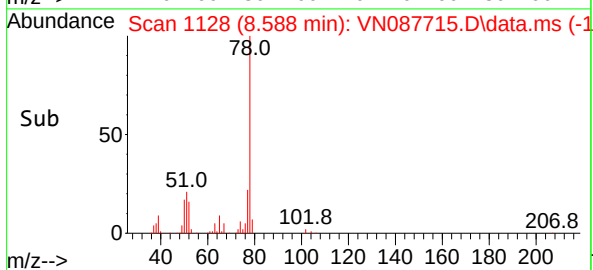
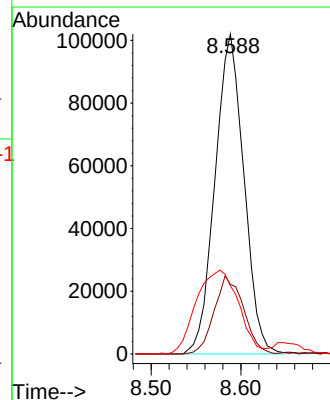
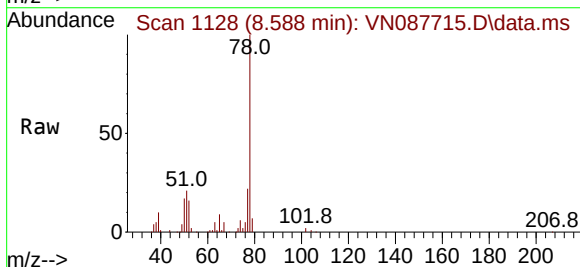
RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

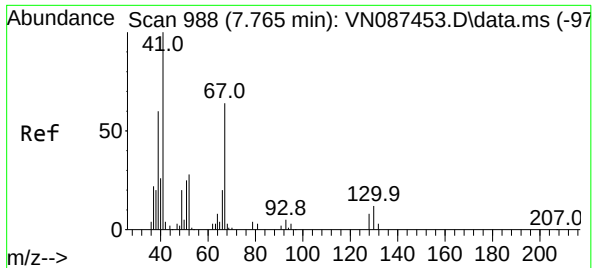
Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 78    | Resp: | 227927 |
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 21.8  | 19.2  | 28.8   |
| 51        | 17.7  | 16.9  | 25.3   |







#35

Methacrylonitrile

Concen: 16.984 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

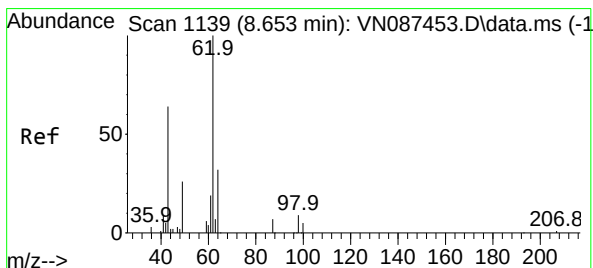
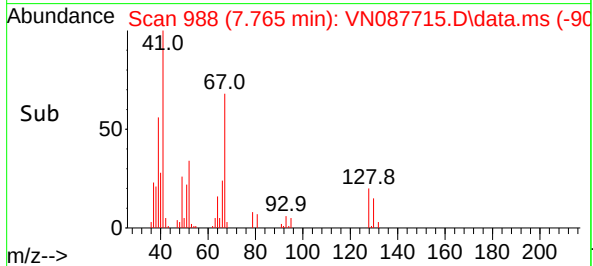
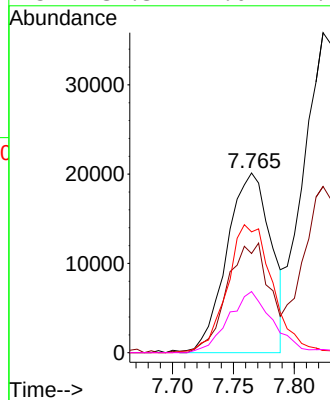
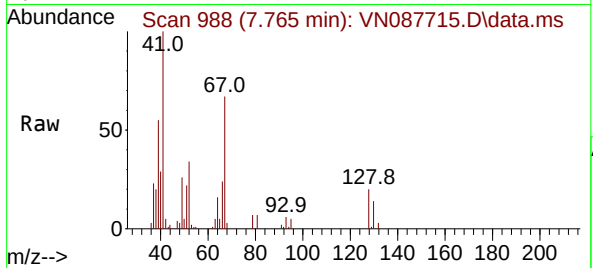
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 50954 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 39        | 55.7  | 30.1  | 90.5  |
| 67        | 67.0  | 32.0  | 96.2  |
| 52        | 34.3  | 14.0  | 42.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#36

1,2-Dichloroethane

Concen: 18.306 ug/l

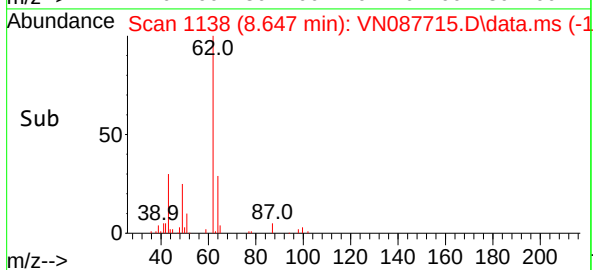
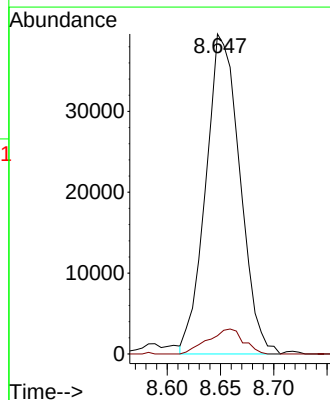
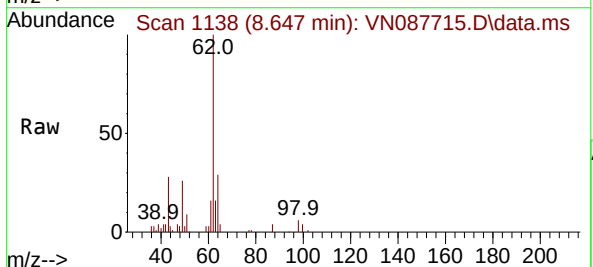
RT: 8.647 min Scan# 1138

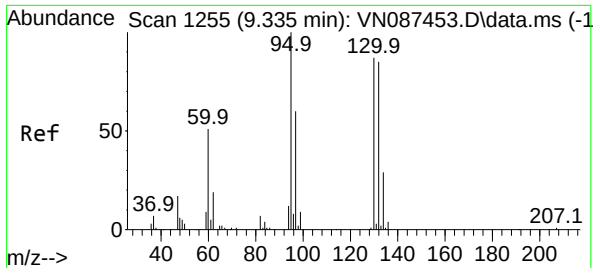
Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

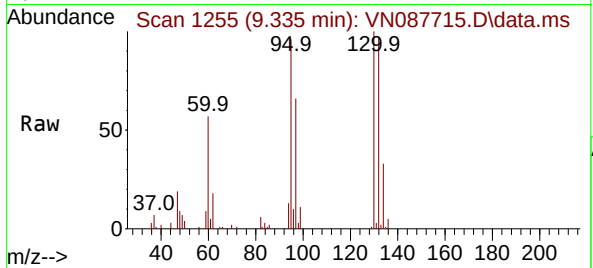
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 62    | Resp: | 88092 |
| Ion Ratio | Lower | Upper |       |
| 62        | 100   |       |       |
| 98        | 8.1   | 6.6   | 9.8   |





#37  
Trichloroethene  
Concen: 19.274 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



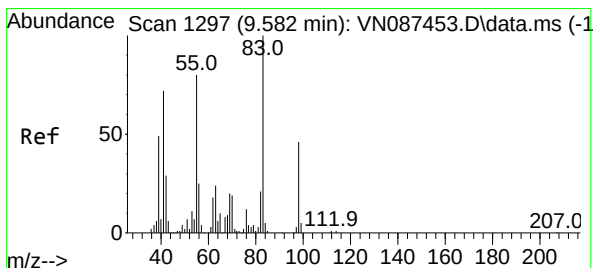
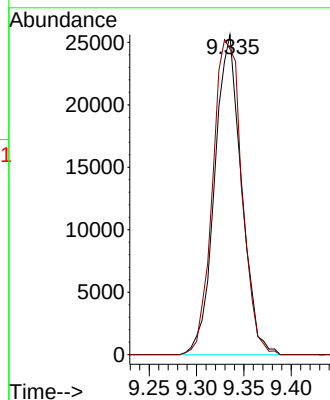
Tgt Ion:130 Resp: 5054  
Ion Ratio Lower Upper  
130 100  
95 95.5 91.4 137.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

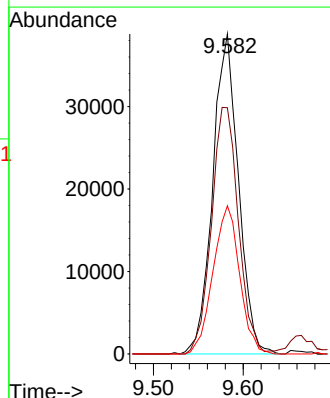
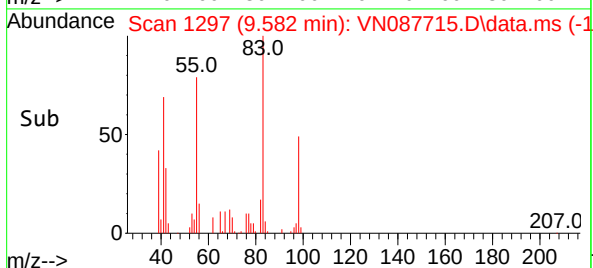
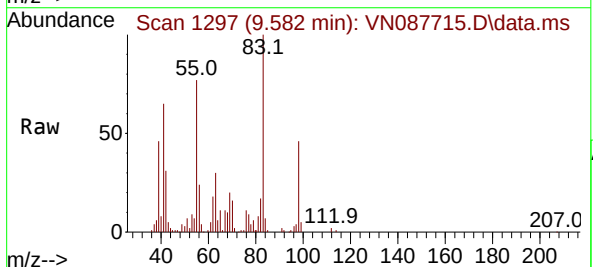
09/05/2025  
Supervised By :Mahesh  
Dadoda

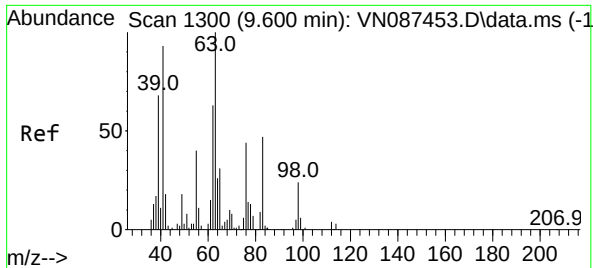
09/05/2025



#38  
Methylcyclohexane  
Concen: 17.627 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 83 Resp: 77129  
Ion Ratio Lower Upper  
83 100  
55 80.5 41.2 123.6  
98 47.9 23.3 69.9





#39

1,2-Dichloropropane

Concen: 19.488 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 63 Resp: 5948

Ion Ratio Lower Upper

63 100

65 33.1 24.6 36.8

Manual Integrations

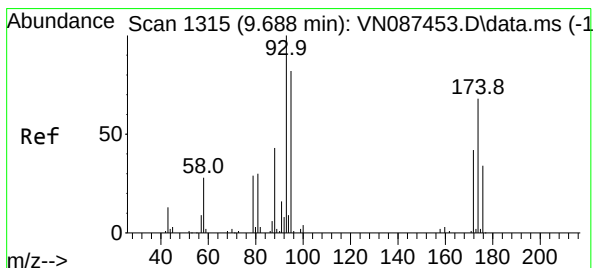
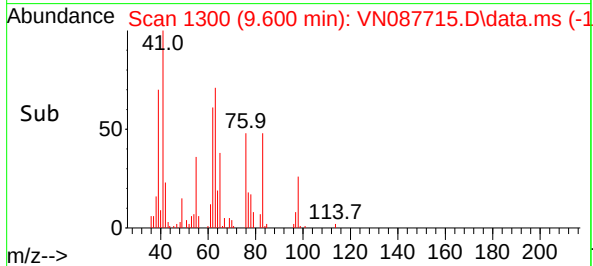
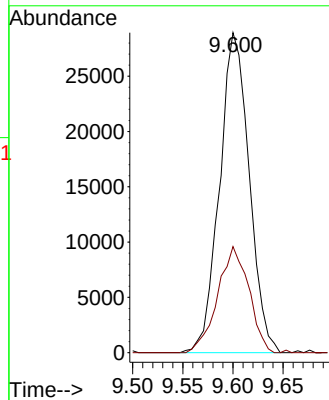
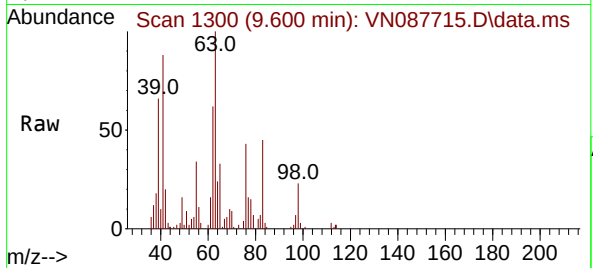
APPROVED

Reviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#40

Dibromomethane

Concen: 19.987 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

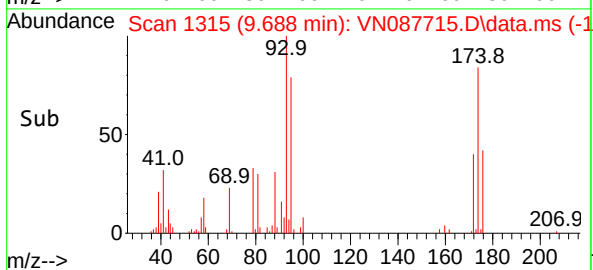
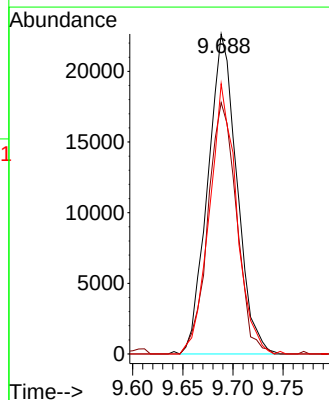
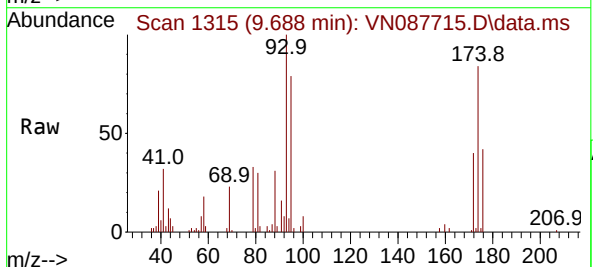
Tgt Ion: 93 Resp: 45777

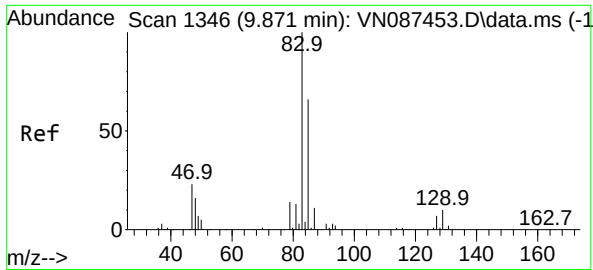
Ion Ratio Lower Upper

93 100

95 77.0 0.0 161.6

174 78.5 0.0 151.4





#41  
Bromodichloromethane  
Concen: 18.911 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

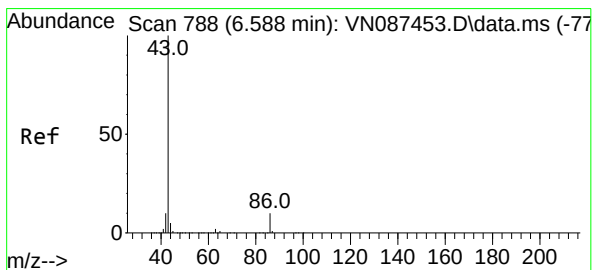
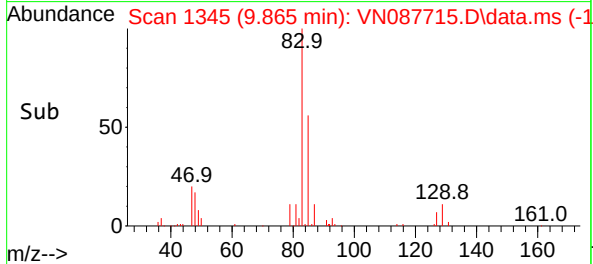
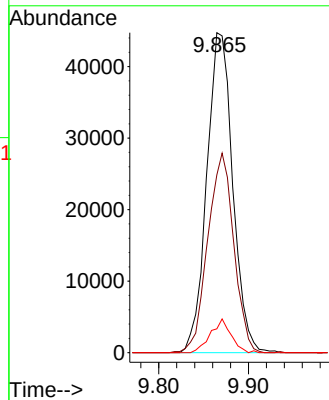
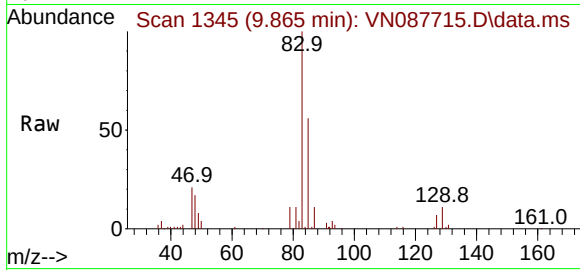
Tgt Ion: 83 Resp: 9000  
Ion Ratio Lower Upper  
83 100  
85 55.2 52.9 79.3  
127 7.5 5.8 8.6

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

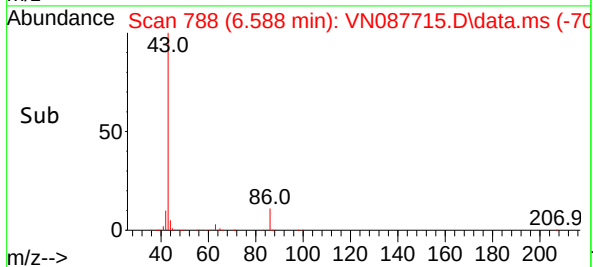
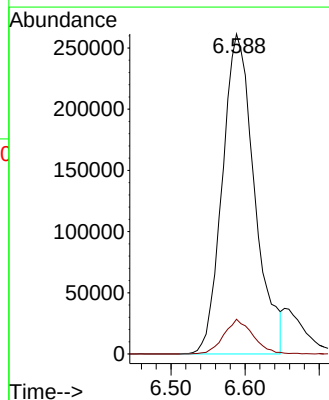
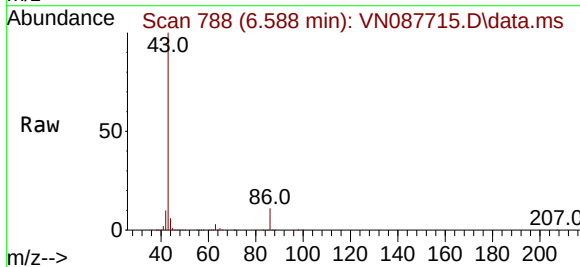
09/05/2025  
Supervised By :Mahesh  
Dadoda

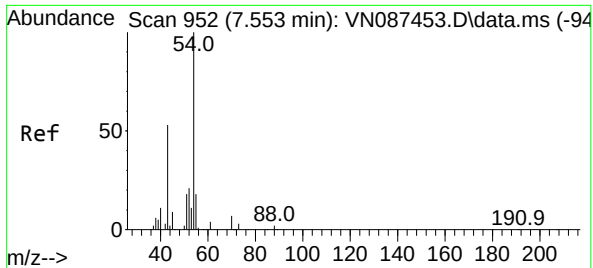
09/05/2025



#42  
Vinyl Acetate  
Concen: 86.167 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 788902  
Ion Ratio Lower Upper  
43 100  
86 9.8 7.3 10.9





#43

Ethyl Acetate

Concen: 18.059 ug/l

RT: 7.541 min Scan# 91

Delta R.T. -0.012 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 43 Resp: 96992

Ion Ratio Lower Upper

43 100

45 13.7 11.1 16.7

Manual Integrations

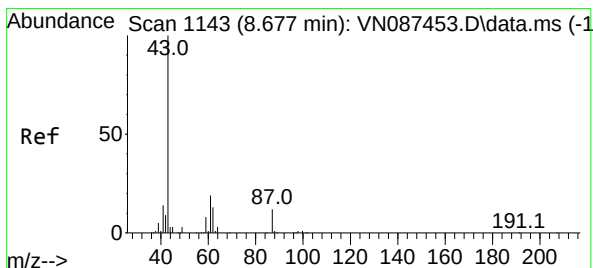
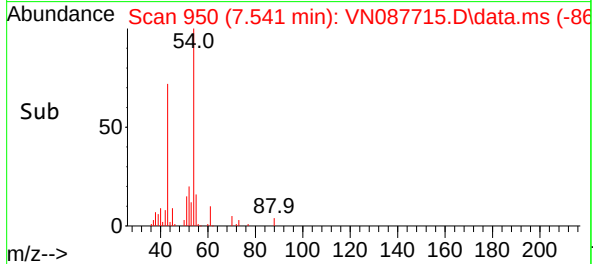
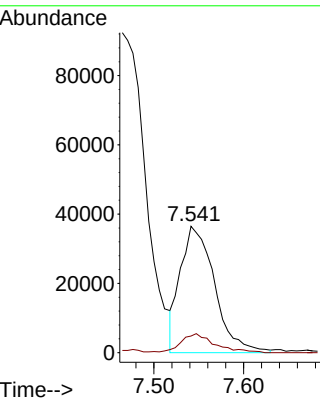
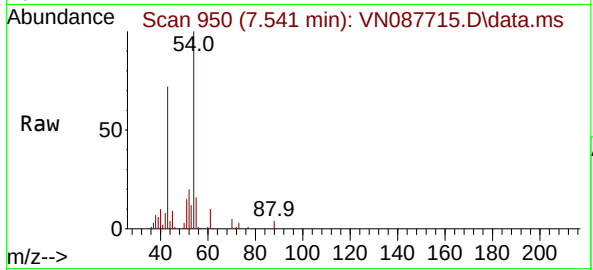
APPROVED

Reviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#44

Isopropyl Acetate

Concen: 17.624 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087715.D

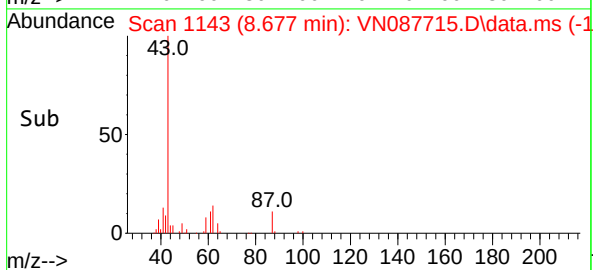
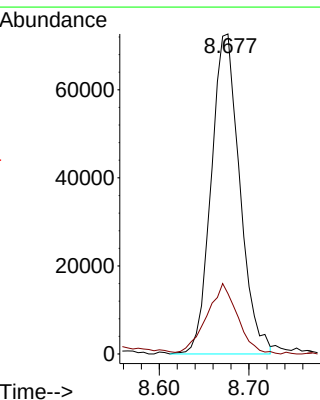
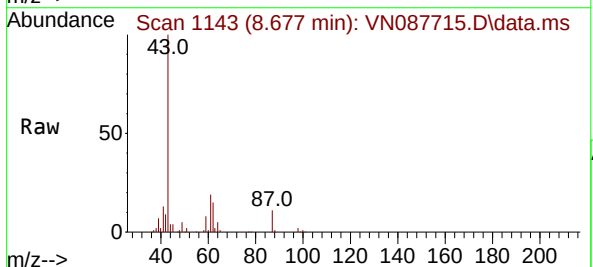
Acq: 04 Sep 2025 12:04

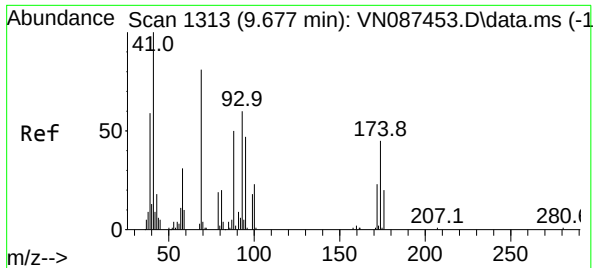
Tgt Ion: 43 Resp: 160457

Ion Ratio Lower Upper

43 100

61 23.9 18.6 28.0





#45

1,4-Dioxane

Concen: 337.304 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 88 Resp: 1957

Ion Ratio Lower Upper

88 100

43 16.5 24.1 36.1

58 65.8 57.2 85.8

Manual Integrations

APPROVED

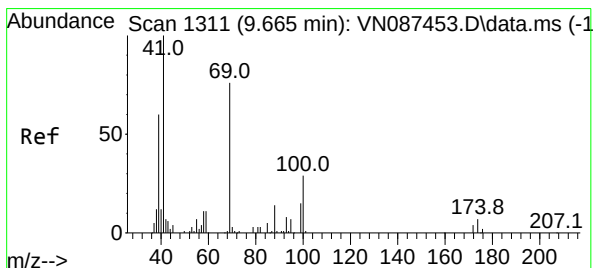
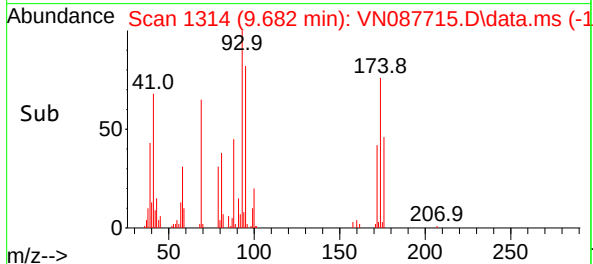
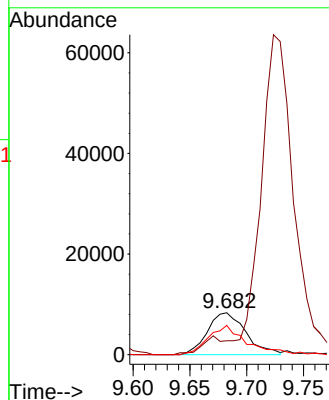
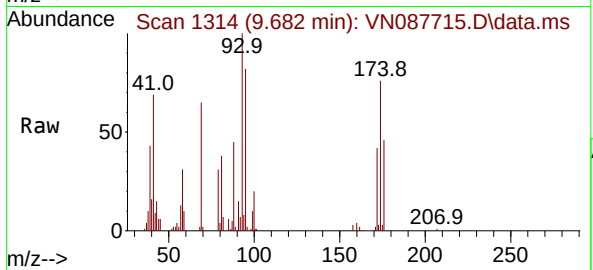
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#46

Methyl methacrylate

Concen: 16.322 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

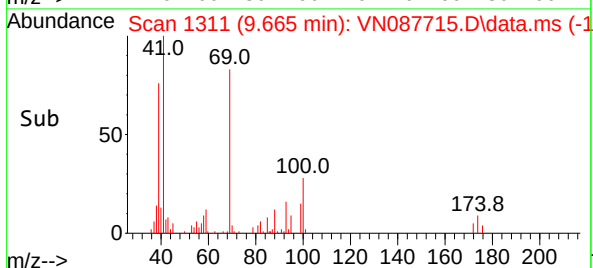
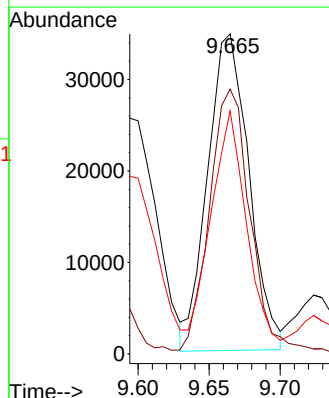
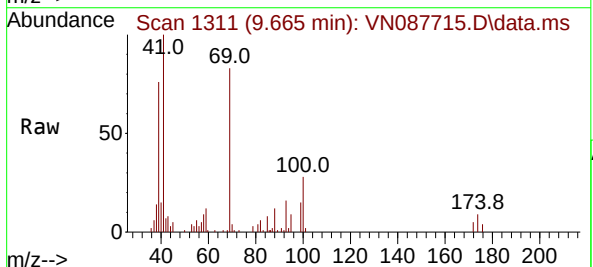
Tgt Ion: 41 Resp: 70145

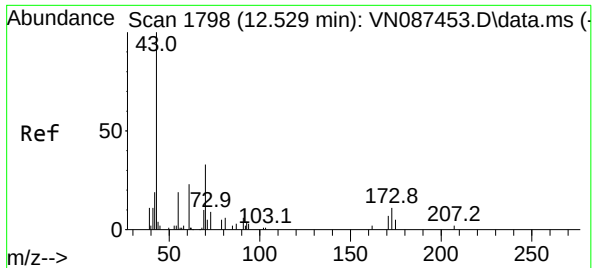
Ion Ratio Lower Upper

41 100

69 87.7 37.1 111.5

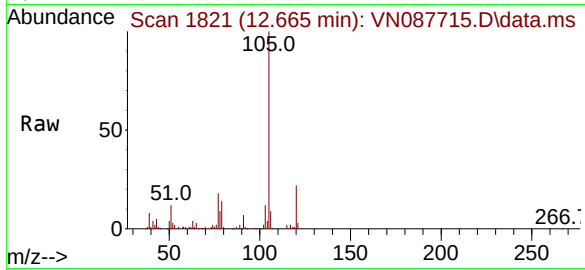
39 77.1 30.7 92.1





#47  
n-amy1 Acetate  
Concen: 17.475 ug/l m  
RT: 12.665 min Scan# 11  
Delta R.T. 0.135 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



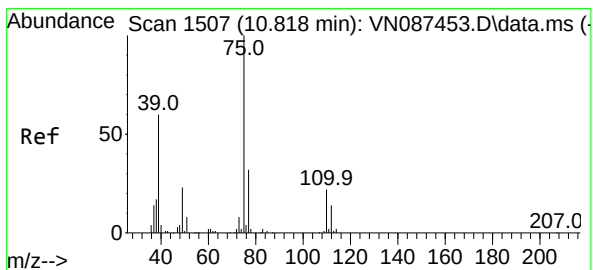
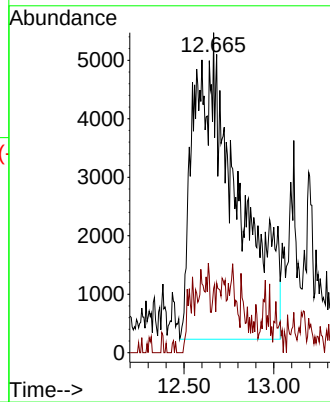
Tgt Ion: 43 Resp: 87889  
Ion Ratio Lower Upper  
43 100  
55 1.1 4.6 6.8

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

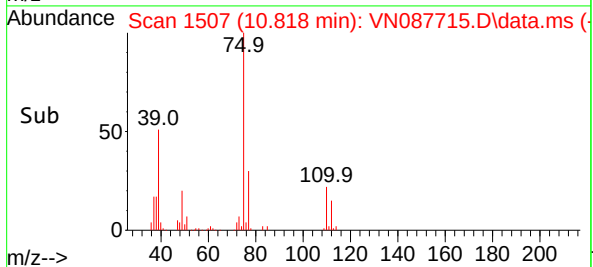
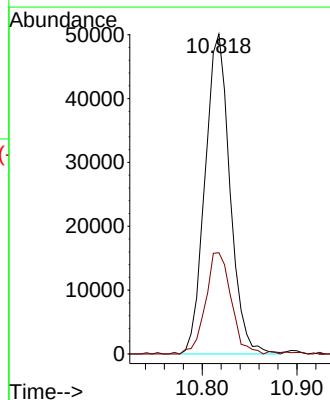
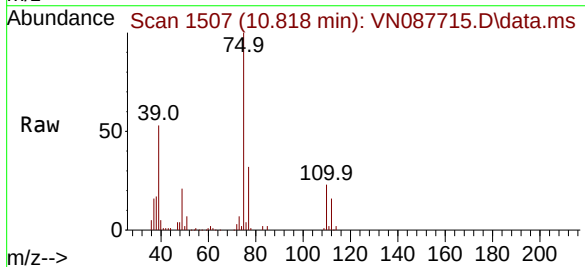
09/05/2025  
Supervised By :Mahesh  
Dadoda

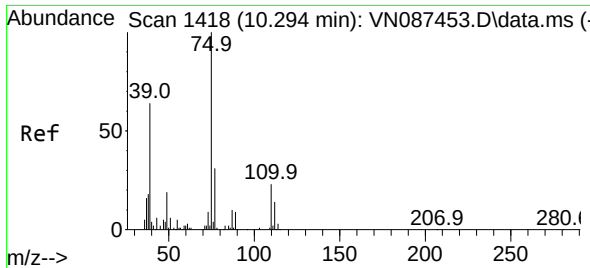
09/05/2025



#48  
t-1,3-Dichloropropene  
Concen: 17.686 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 91571  
Ion Ratio Lower Upper  
75 100  
77 31.6 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 18.425 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. -0.006 min

Lab File: VN087715.D

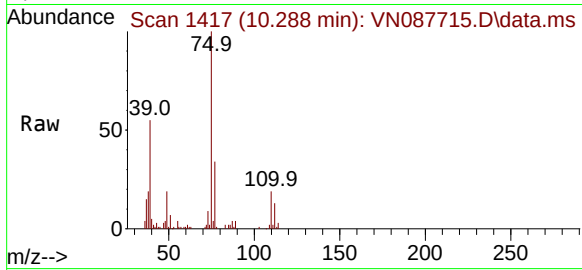
Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01



Tgt Ion: 75 Resp: 96000

Ion Ratio Lower Upper

75 100

77 33.8 24.6 36.8

39 54.4 51.5 77.3

Manual Integrations

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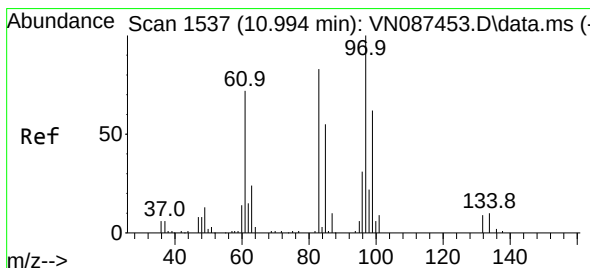
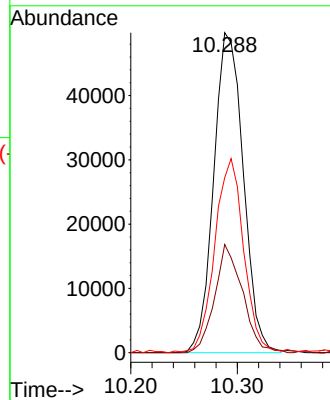
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#50

1,1,2-Trichloroethane

Concen: 19.692 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion: 97 Resp: 56983

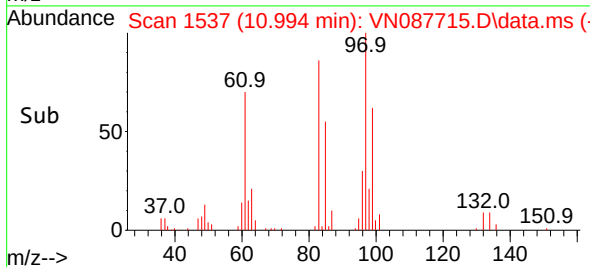
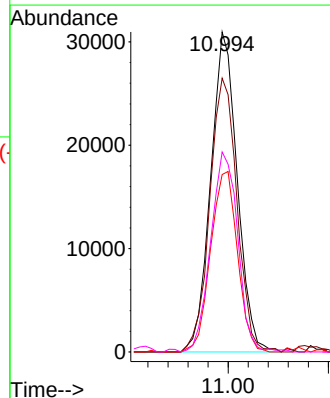
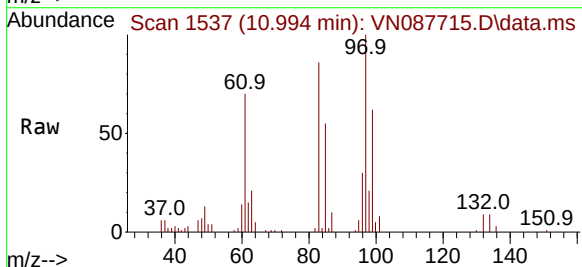
Ion Ratio Lower Upper

97 100

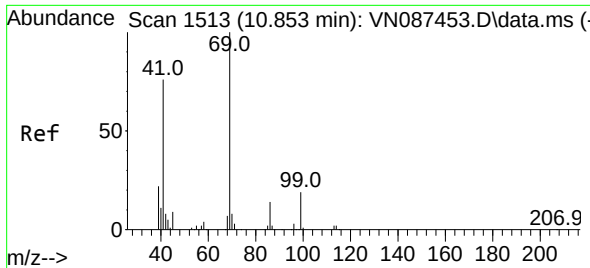
83 85.6 66.2 99.2

85 55.4 43.9 65.9

99 62.5 50.0 75.0

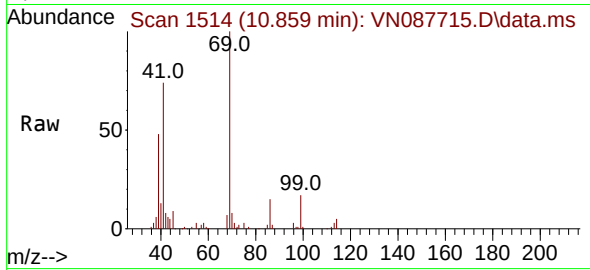






#51  
Ethyl methacrylate  
Concen: 16.766 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



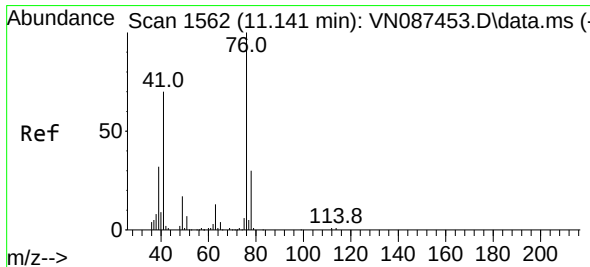
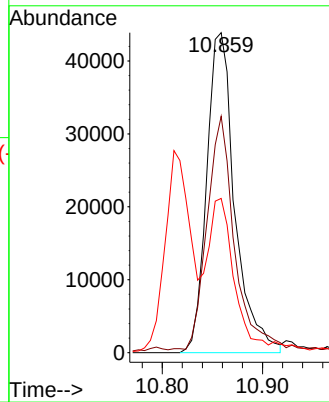
Tgt Ion: 69 Resp: 8544  
Ion Ratio Lower Upper  
69 100  
41 72.6 38.0 114.1  
39 45.6 23.2 69.5

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

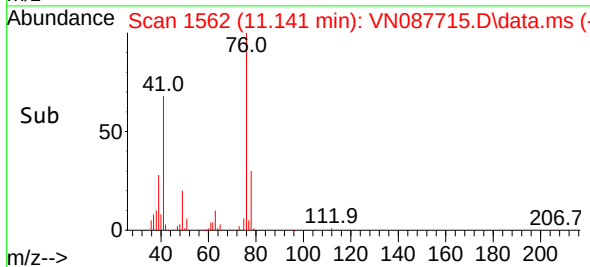
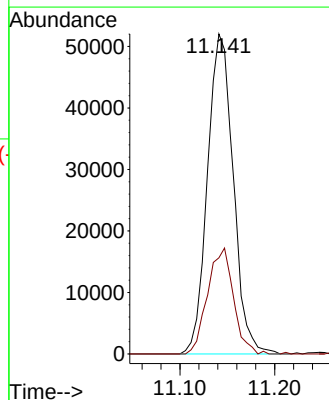
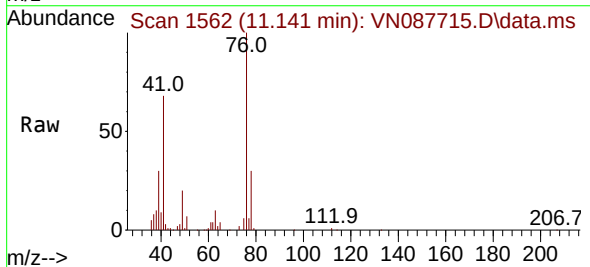
09/05/2025  
Supervised By :Mahesh  
Dadoda

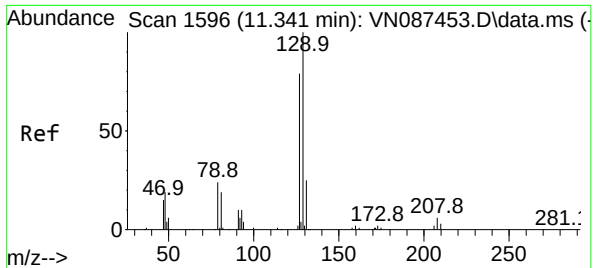
09/05/2025



#52  
1,3-Dichloropropane  
Concen: 18.892 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

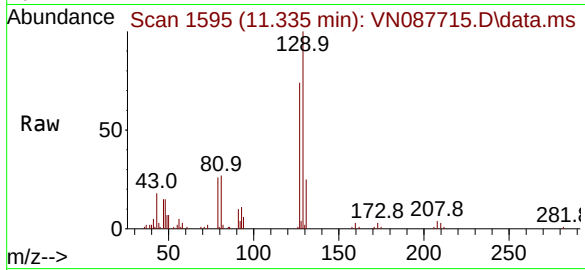
Tgt Ion: 76 Resp: 98490  
Ion Ratio Lower Upper  
76 100  
78 33.0 0.0 63.0





#53  
Dibromochloromethane  
Concen: 18.773 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



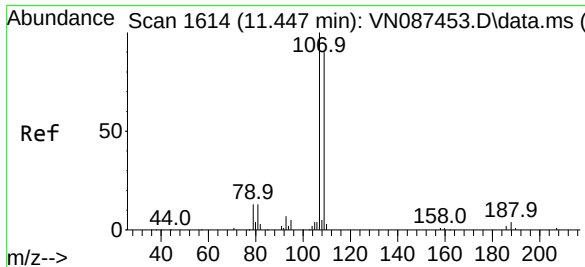
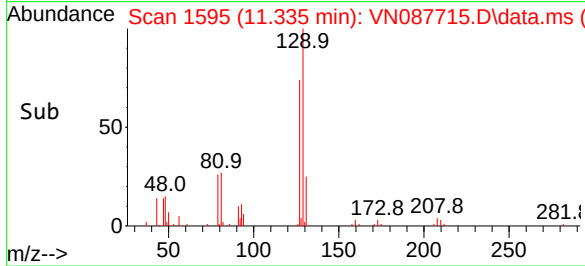
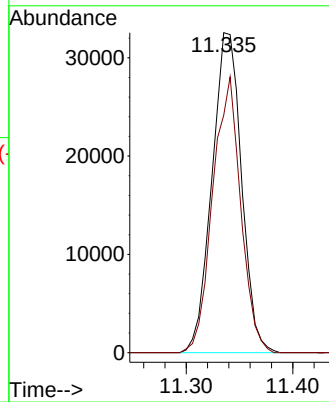
Tgt Ion:129 Resp: 62738  
Ion Ratio Lower Upper  
129 100  
127 81.4 39.1 117.3

Manual Integrations  
**APPROVED**

Reviewed By :Semsettin  
Yesilyurt

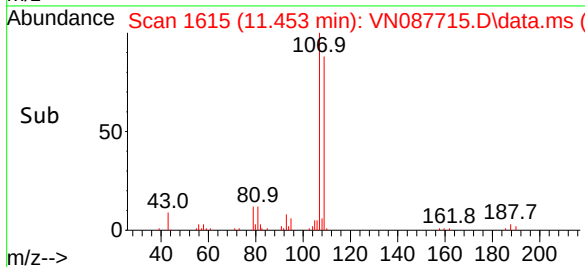
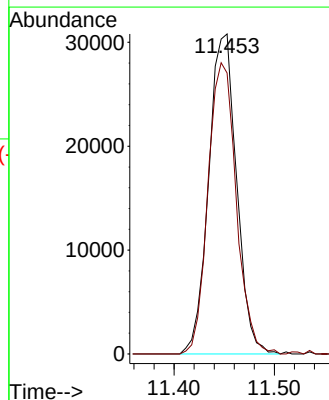
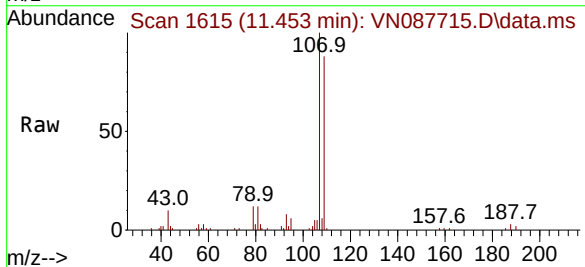
09/05/2025  
Supervised By :Mahesh  
Dadoda

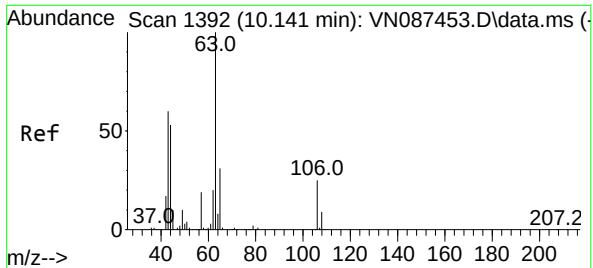
09/05/2025



#54  
1,2-Dibromoethane  
Concen: 19.397 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

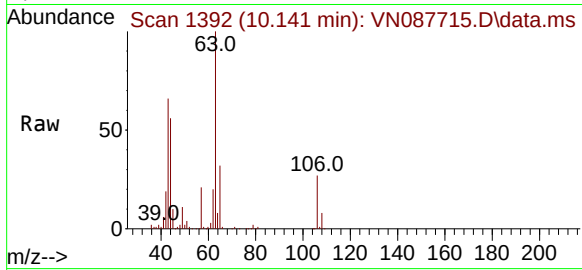
Tgt Ion:107 Resp: 59585  
Ion Ratio Lower Upper  
107 100  
109 92.0 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 88.133 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



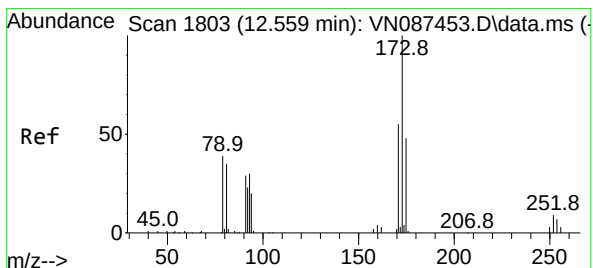
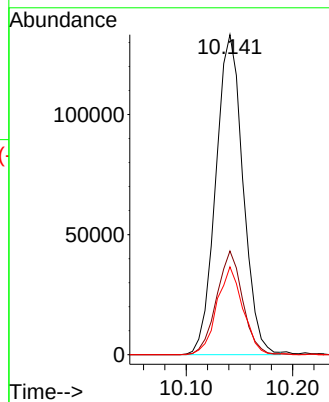
Tgt Ion: 63 Resp: 236450  
Ion Ratio Lower Upper  
63 100  
65 31.1 25.7 38.5  
106 26.2 20.7 31.1

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

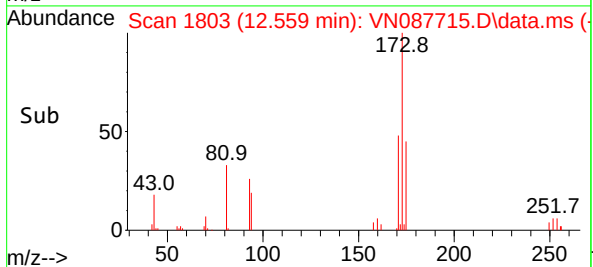
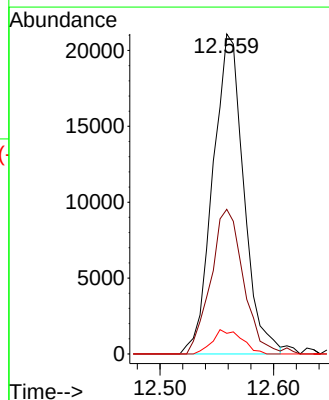
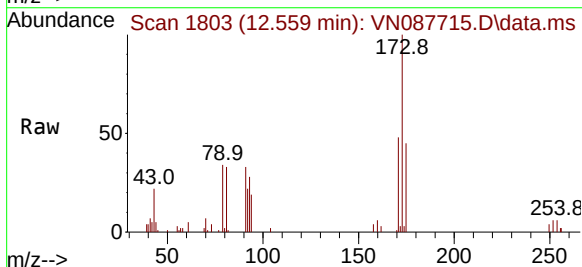
09/05/2025  
Supervised By :Mahesh  
Dadoda

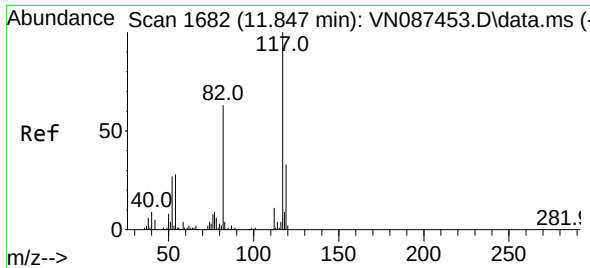
09/05/2025



#56  
Bromoform  
Concen: 17.992 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

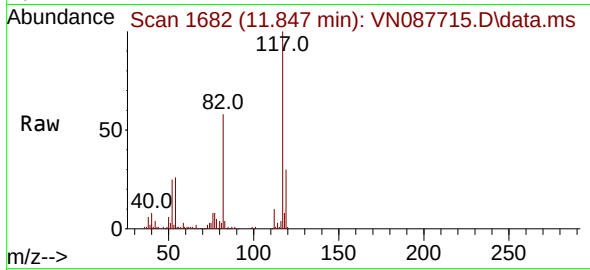
Tgt Ion:173 Resp: 39771  
Ion Ratio Lower Upper  
173 100  
175 47.5 38.8 58.2  
254 7.3 3.9 5.9#





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



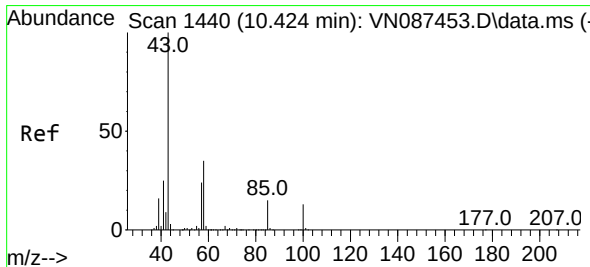
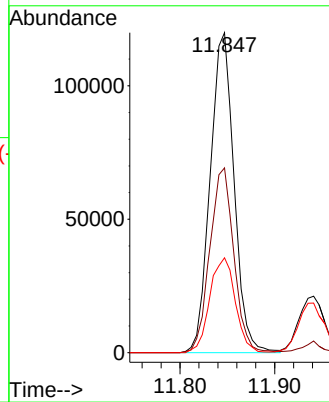
Tgt Ion: 117 Resp: 21035  
Ion Ratio Lower Upper  
117 100  
82 58.2 49.2 73.8  
119 31.7 25.7 38.5

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

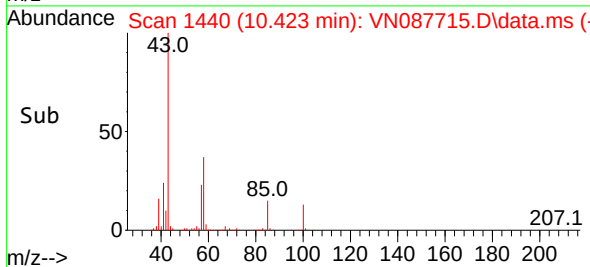
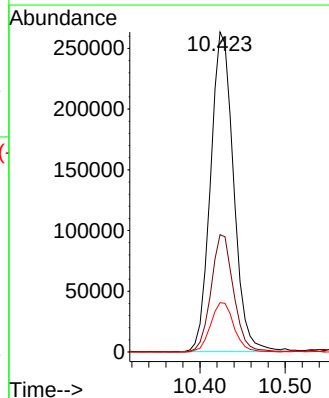
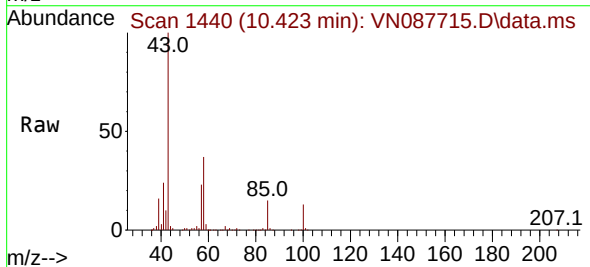
09/05/2025  
Supervised By :Mahesh  
Dadoda

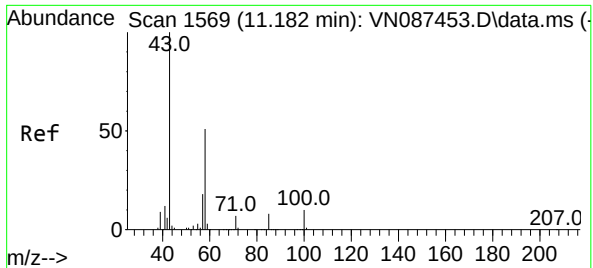
09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 91.248 ug/l  
RT: 10.423 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

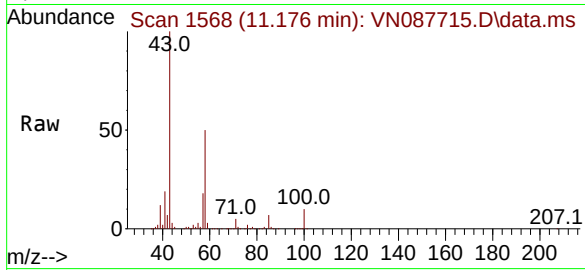
Tgt Ion: 43 Resp: 493774  
Ion Ratio Lower Upper  
43 100  
58 36.0 29.0 43.6  
85 15.7 12.7 19.1





#59  
2-Hexanone  
Concen: 83.593 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



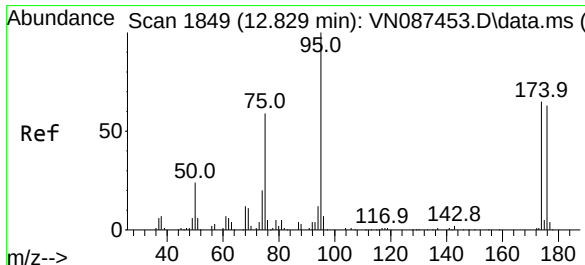
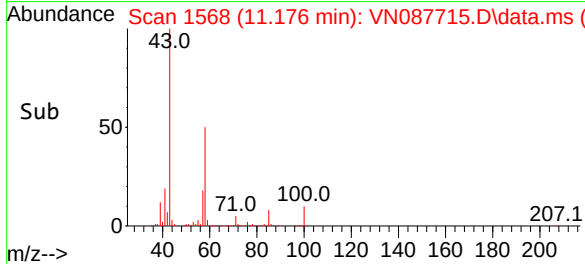
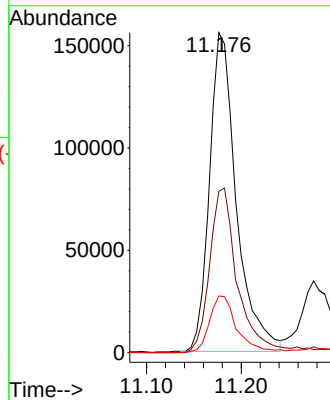
Tgt Ion: 43 Resp: 307348  
Ion Ratio Lower Upper  
43 100  
58 52.8 41.0 61.6  
57 17.9 14.6 21.8

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

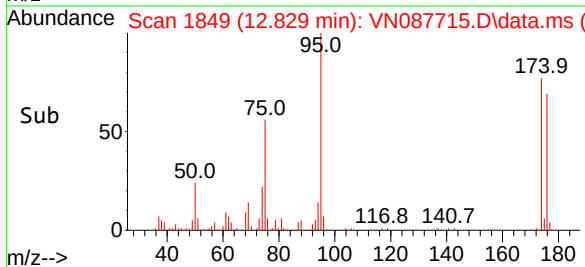
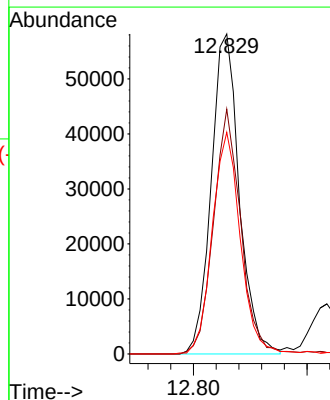
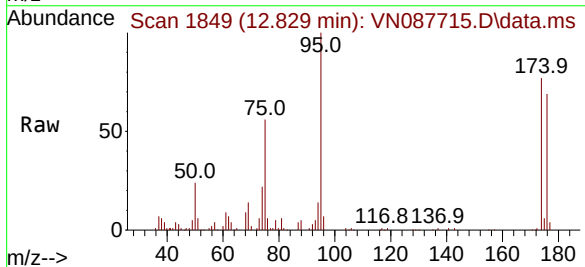
09/05/2025  
Supervised By :Mahesh  
Dadoda

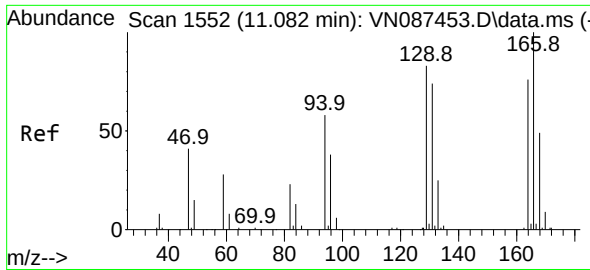
09/05/2025



#60  
4-Bromofluorobenzene  
Concen: 27.606 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

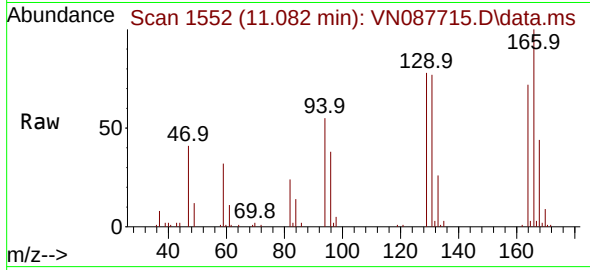
Tgt Ion: 95 Resp: 99936  
Ion Ratio Lower Upper  
95 100  
174 73.9 52.3 78.5  
176 68.9 49.8 74.8





#61  
Tetrachloroethene  
Concen: 20.226 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



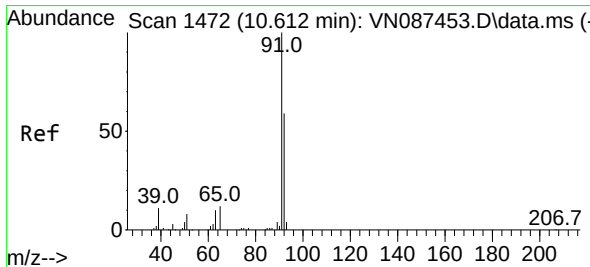
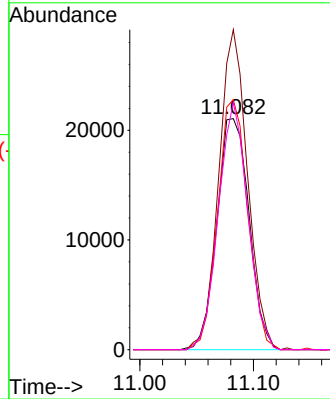
Tgt Ion:164 Resp: 41450  
Ion Ratio Lower Upper  
164 100  
166 138.5 105.4 158.0  
129 108.2 87.7 131.5  
131 107.0 77.7 116.5

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

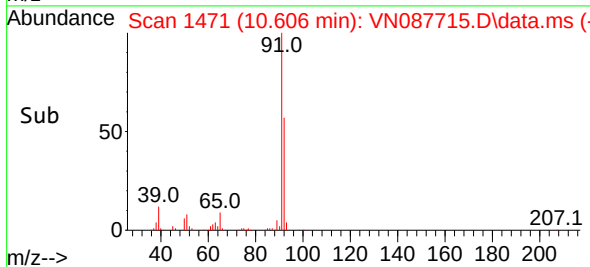
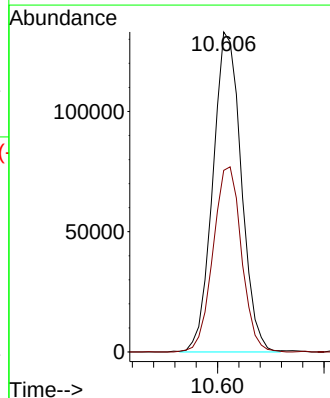
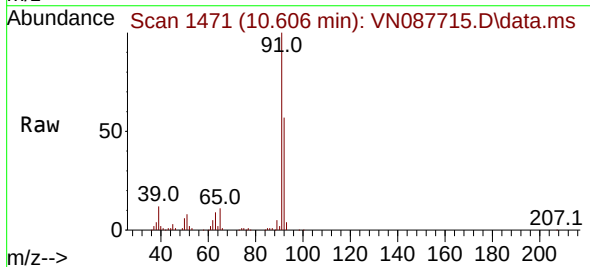
09/05/2025  
Supervised By :Mahesh  
Dadoda

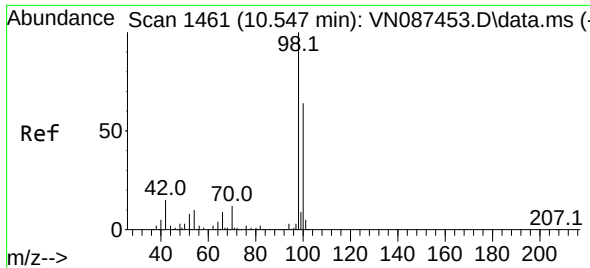
09/05/2025



#62  
Toluene  
Concen: 18.968 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

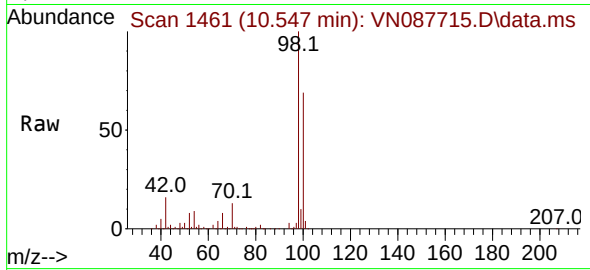
Tgt Ion: 91 Resp: 246270  
Ion Ratio Lower Upper  
91 100  
92 57.9 45.8 68.6





#63  
Toluene-d8  
Concen: 30.090 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



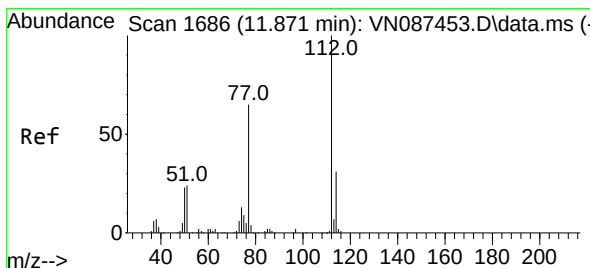
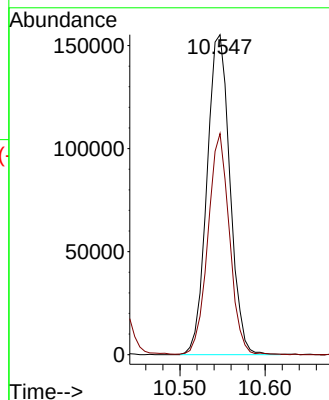
Tgt Ion: 98 Resp: 291239  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.5 75.7

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

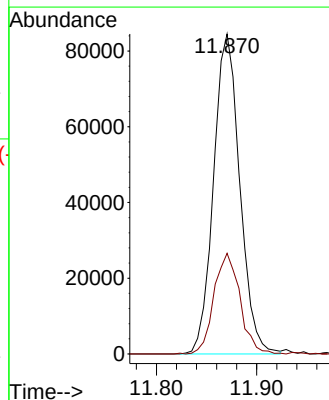
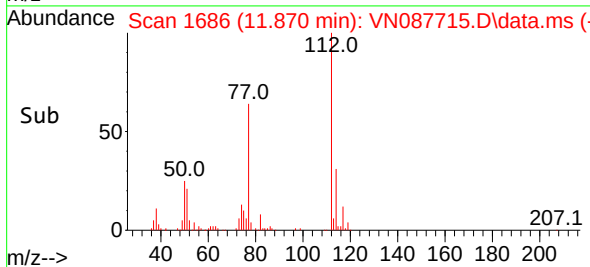
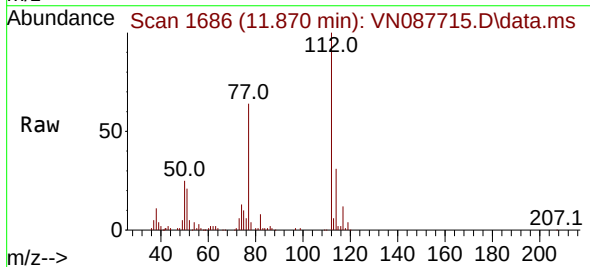
09/05/2025  
Supervised By :Mahesh  
Dadoda

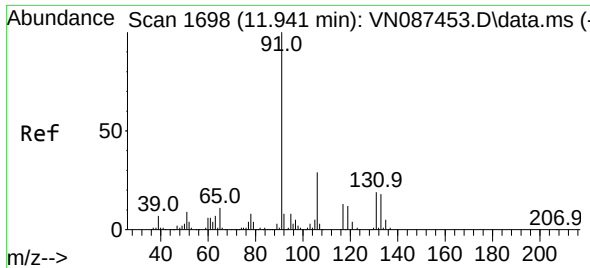
09/05/2025



#64  
Chlorobenzene  
Concen: 19.229 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

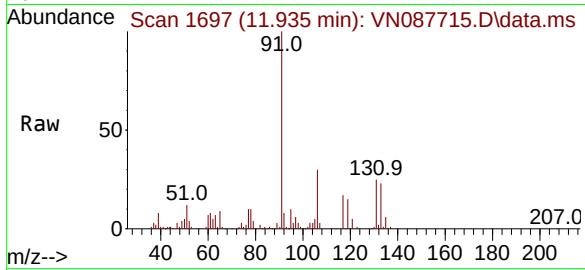
Tgt Ion:112 Resp: 153403  
Ion Ratio Lower Upper  
112 100  
114 31.2 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 19.248 ug/l  
RT: 11.935 min Scan# 1697  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



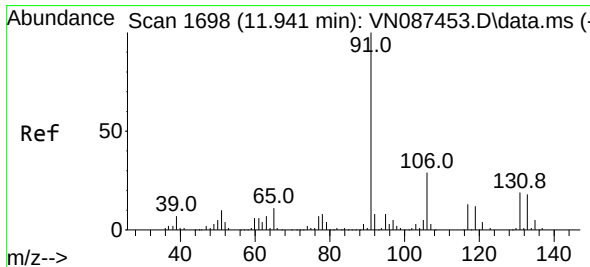
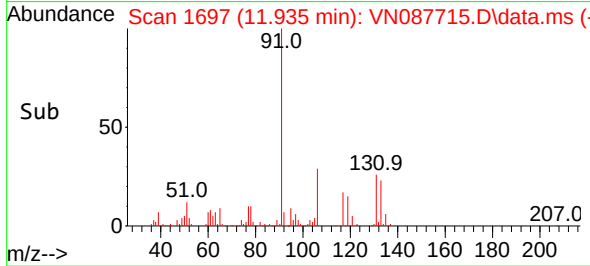
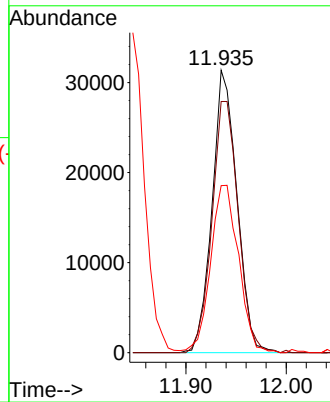
Tgt Ion:131 Resp: 53989  
Ion Ratio Lower Upper  
131 100  
133 94.1 0.0 189.8  
119 66.7 0.0 133.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

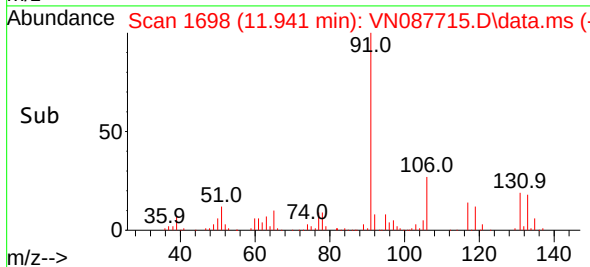
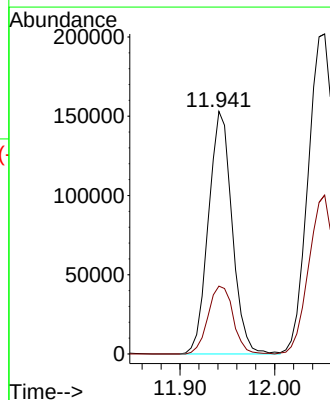
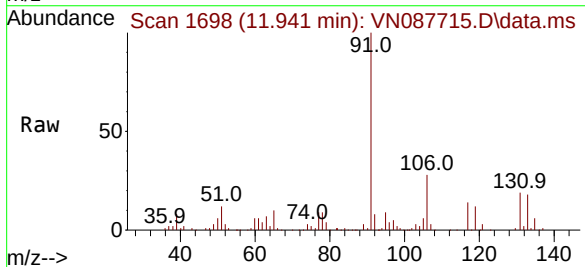
09/05/2025  
Supervised By :Mahesh  
Dadoda

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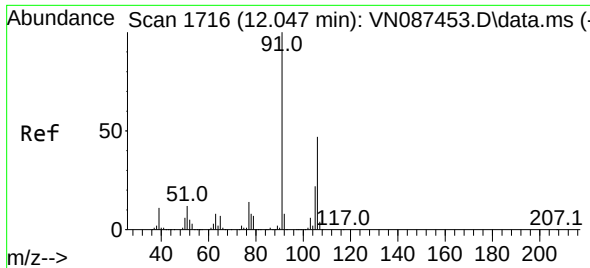


#66  
Ethyl Benzene  
Concen: 18.367 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 265786  
Ion Ratio Lower Upper  
91 100  
106 28.0 22.9 34.3

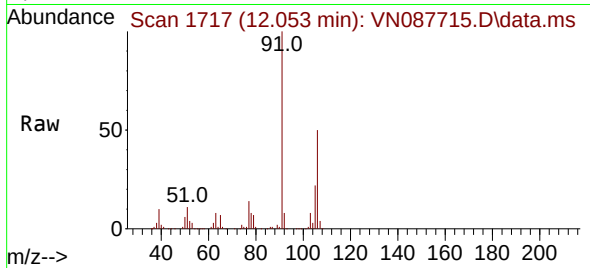






#67  
m/p-Xylenes  
Concen: 37.569 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



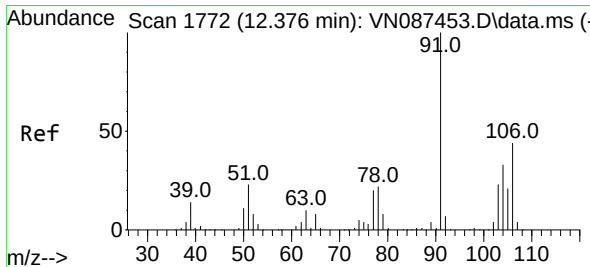
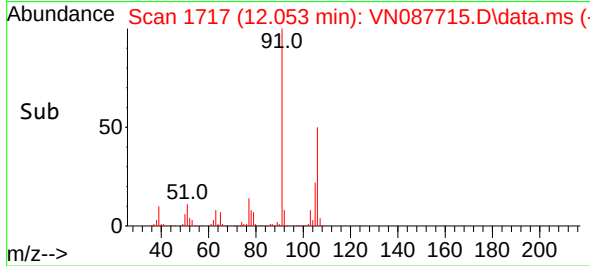
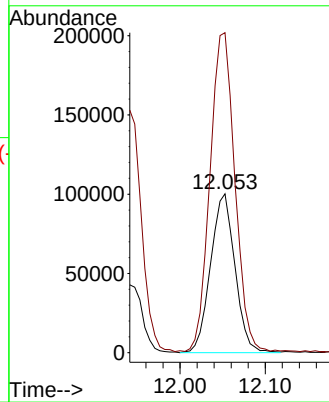
Tgt Ion:106 Resp: 19955  
Ion Ratio Lower Upper  
106 100  
91 204.8 174.2 261.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

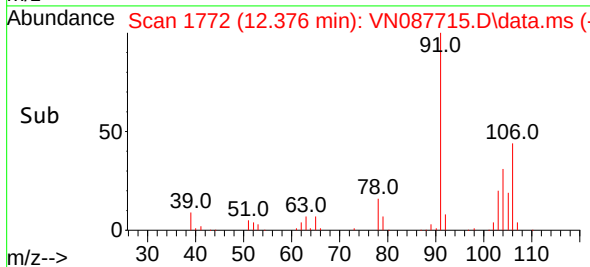
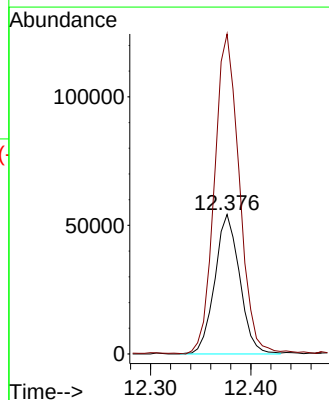
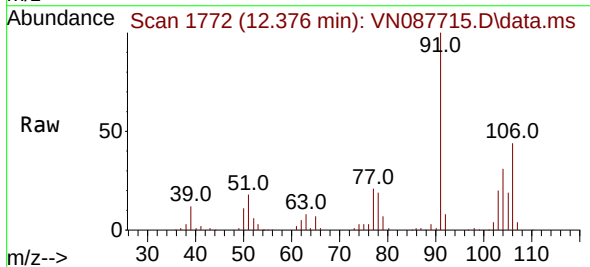
09/05/2025  
Supervised By :Mahesh  
Dadoda

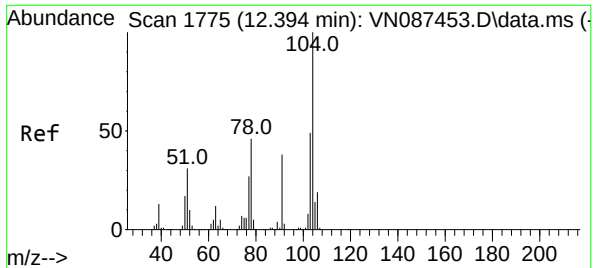
09/05/2025



#68  
o-Xylene  
Concen: 17.899 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:106 Resp: 93531  
Ion Ratio Lower Upper  
106 100  
91 228.5 114.5 343.5





#69

Styrene

Concen: 18.043 ug/l

RT: 12.394 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

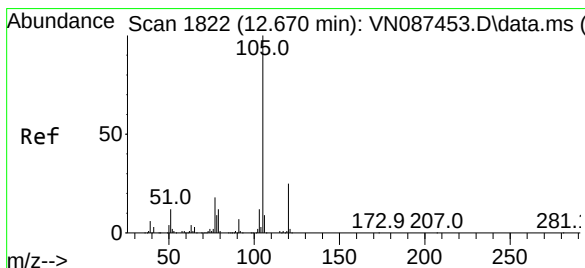
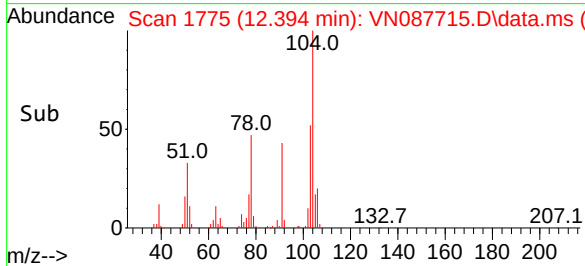
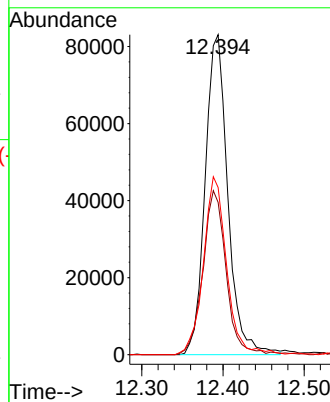
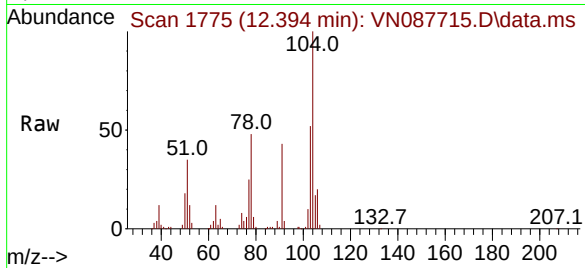
|             |       |       |      |
|-------------|-------|-------|------|
| Tgt Ion:104 | Resp: | 16099 |      |
| Ion Ratio   | Lower | Upper |      |
| 104         | 100   |       |      |
| 78          | 52.1  | 43.8  | 65.8 |
| 103         | 55.7  | 43.1  | 64.7 |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt

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Supervised By :Mahesh  
Dadoda

09/05/2025



#70

Isopropylbenzene

Concen: 18.546 ug/l

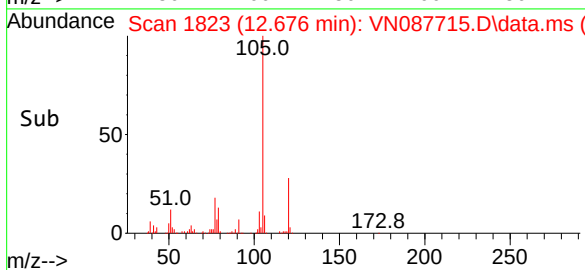
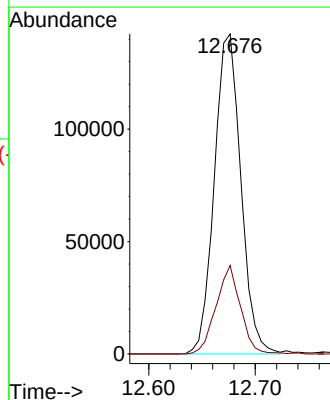
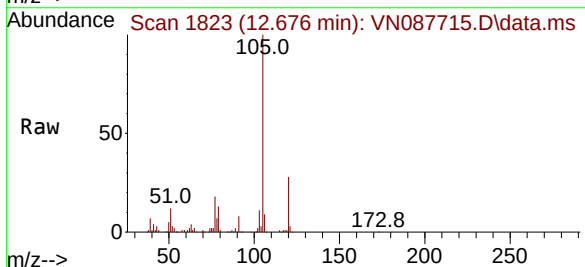
RT: 12.676 min Scan# 1823

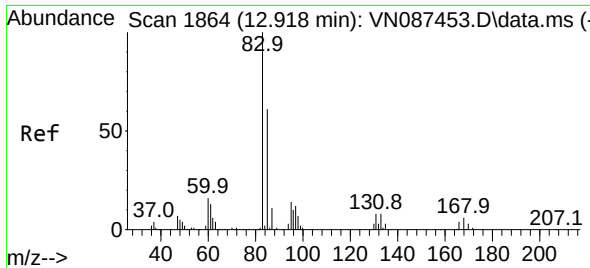
Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

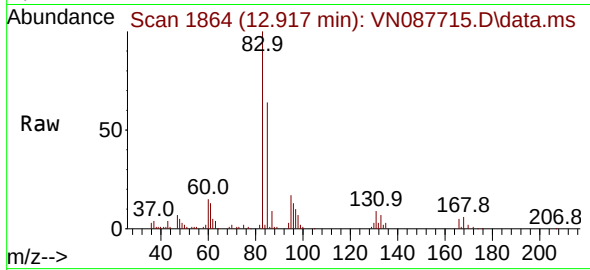
|             |       |        |      |
|-------------|-------|--------|------|
| Tgt Ion:105 | Resp: | 246218 |      |
| Ion Ratio   | Lower | Upper  |      |
| 105         | 100   |        |      |
| 120         | 25.3  | 17.5   | 32.5 |





#71  
1,1,2-Tetrachloroethane  
Concen: 19.705 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



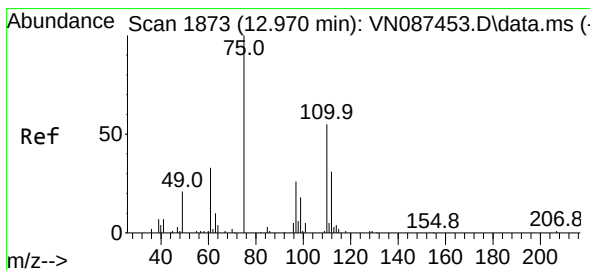
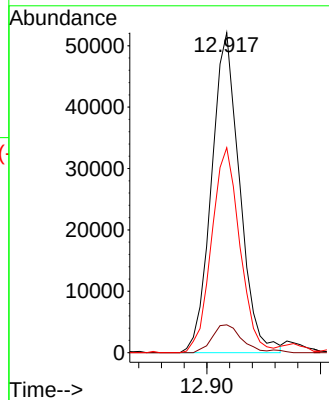
Tgt Ion: 83 Resp: 89634  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.8 14.3  
85 64.4 31.7 95.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

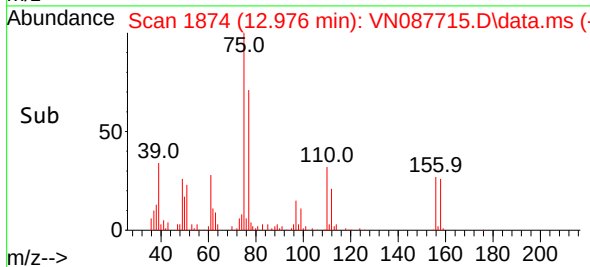
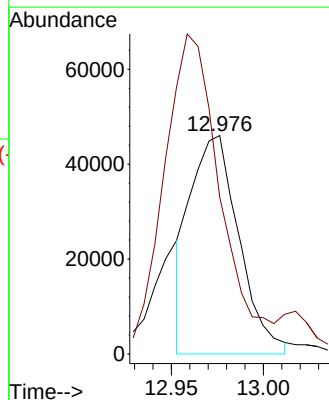
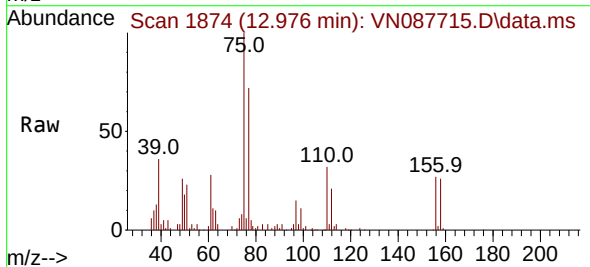
09/05/2025  
Supervised By :Mahesh  
Dadoda

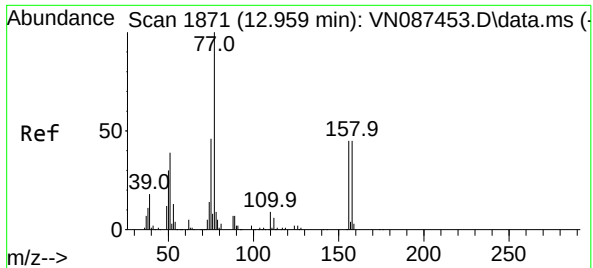
09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 19.973 ug/l m  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

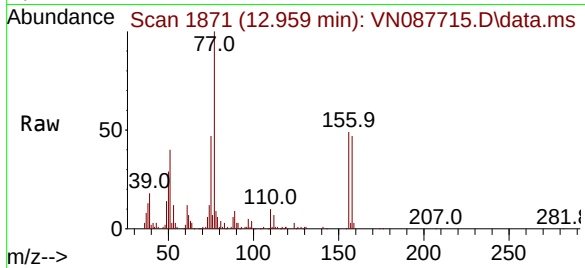
Tgt Ion: 75 Resp: 84640  
Ion Ratio Lower Upper  
75 100  
77 171.8 0.0 385.0





#73  
Bromobenzene  
Concen: 19.718 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



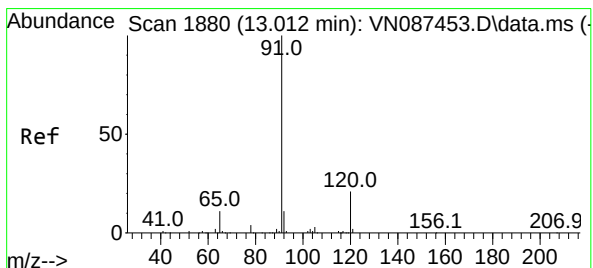
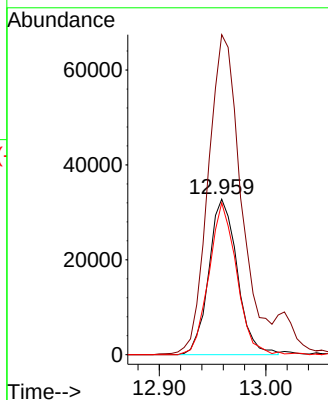
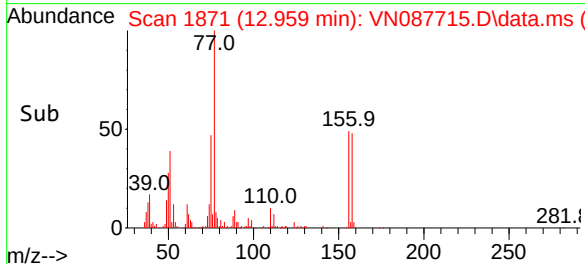
Tgt Ion:156 Resp: 60680  
Ion Ratio Lower Upper  
156 100  
77 239.6 0.0 506.6  
158 94.8 0.0 193.6

Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt

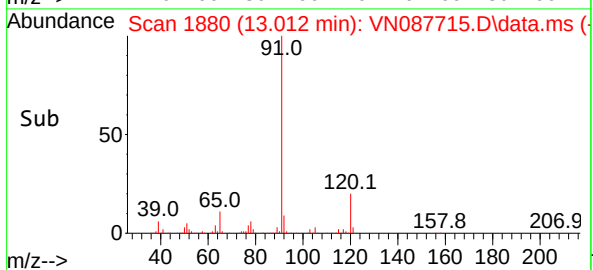
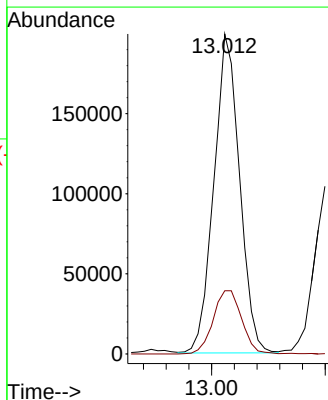
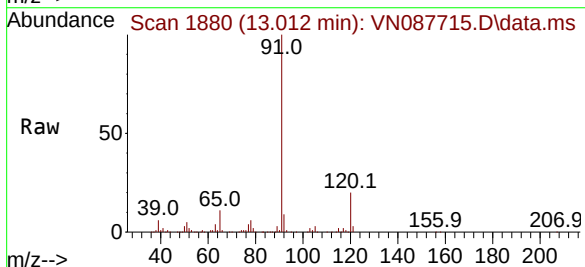
09/05/2025  
Supervised By :Mahesh  
Dadoda

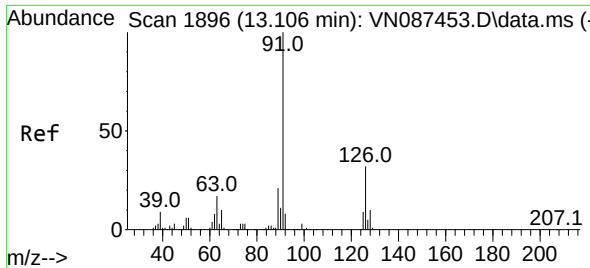
09/05/2025



#74  
n-propylbenzene  
Concen: 18.854 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 312613  
Ion Ratio Lower Upper  
91 100  
120 22.0 0.0 41.8





#75  
2-Chlorotoluene  
Concen: 18.658 ug/l  
RT: 13.100 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

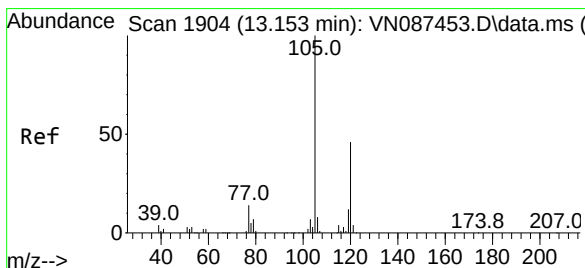
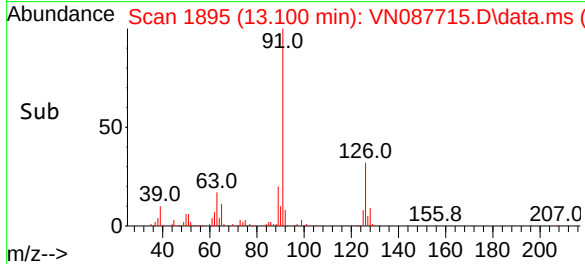
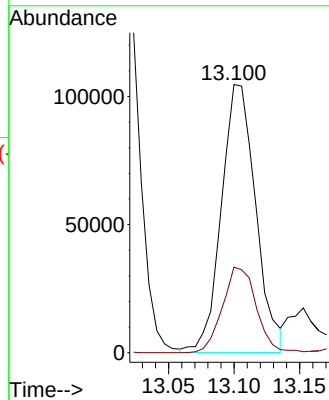
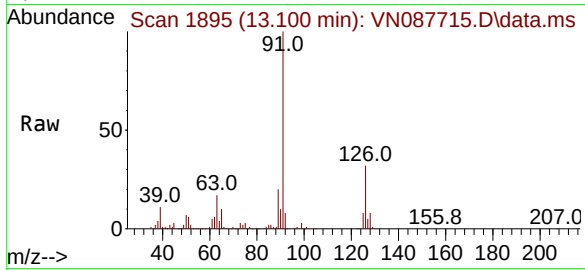
Tgt Ion: 91 Resp: 190294  
Ion Ratio Lower Upper  
91 100  
126 31.2 0.0 60.4

Manual Integrations  
**APPROVED**

Reviewed By :Semsettin  
Yesilyurt

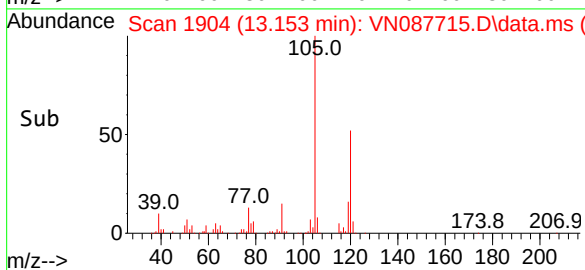
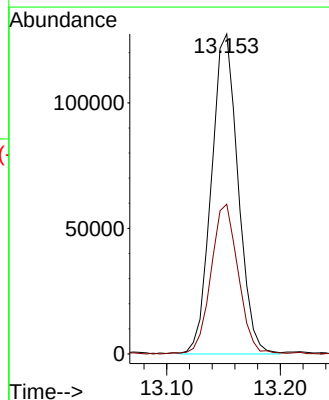
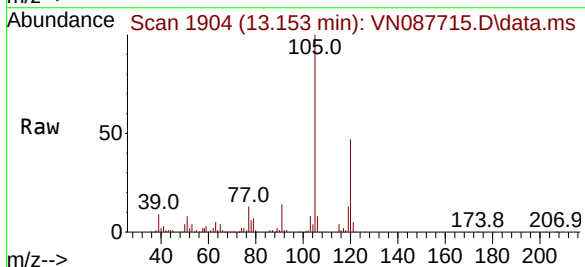
09/05/2025  
Supervised By :Mahesh  
Dadoda

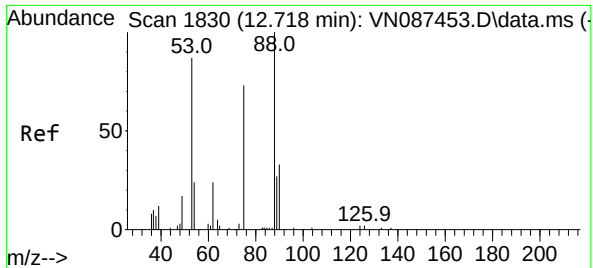
09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 18.317 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 208218  
Ion Ratio Lower Upper  
105 100  
120 47.7 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 16.477 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 2643  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 96.7  | 59.0  | 176.8 |
| 89        | 43.8  | 22.1  | 66.5  |

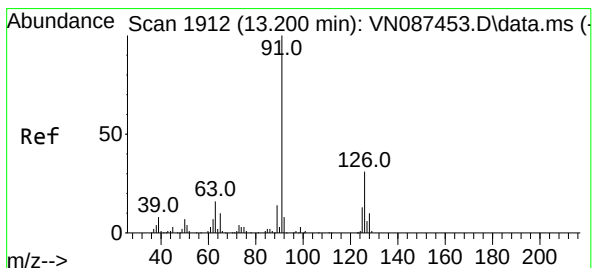
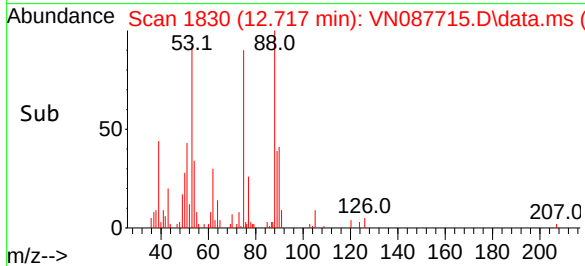
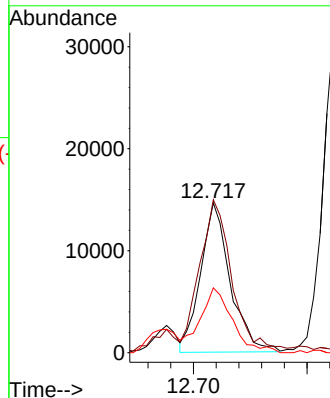
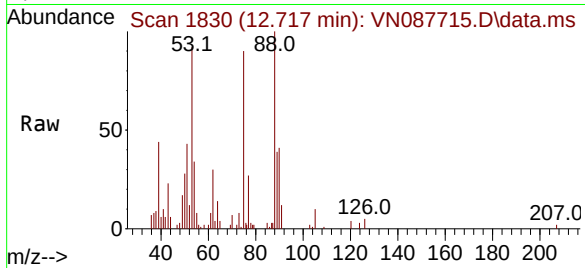
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#78

4-Chlorotoluene

Concen: 18.828 ug/l

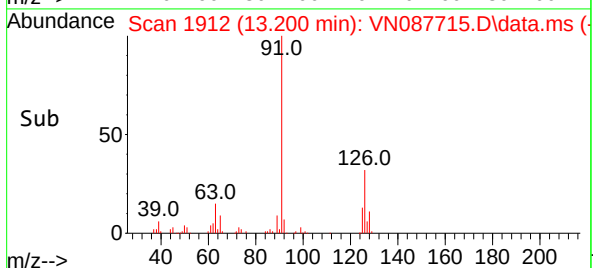
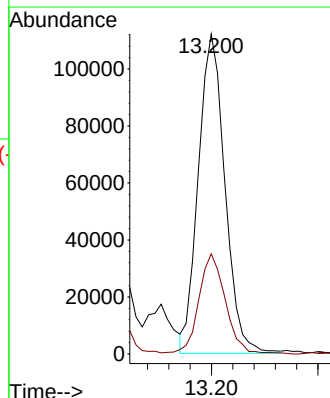
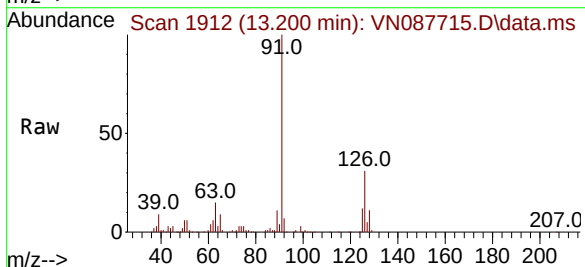
RT: 13.200 min Scan# 1912

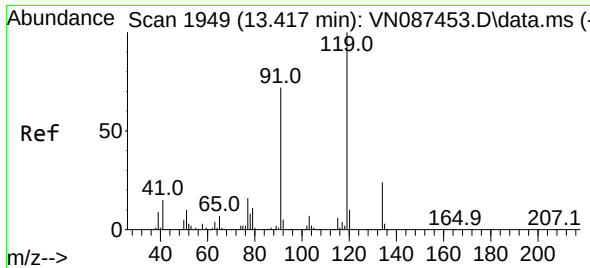
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

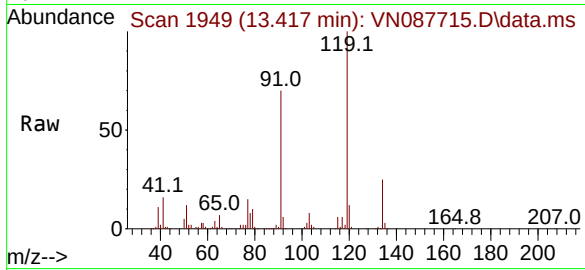
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 194600 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 30.0  | 0.0   | 63.2   |





#79  
tert-butylbenzene  
Concen: 18.529 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



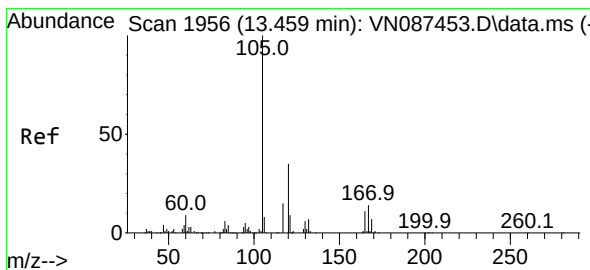
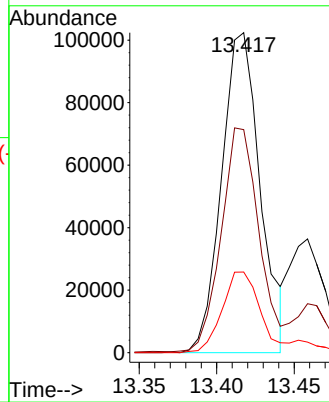
Tgt Ion:119 Resp: 17758  
Ion Ratio Lower Upper  
119 100  
91 68.0 0.0 141.6  
134 24.9 0.0 45.6

Manual Integrations  
APPROVED

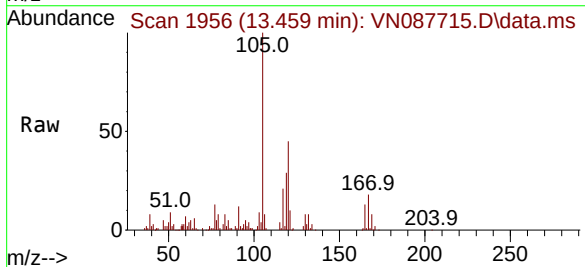
Reviewed By :Semsettin  
Yesilyurt

09/05/2025  
Supervised By :Mahesh  
Dadoda

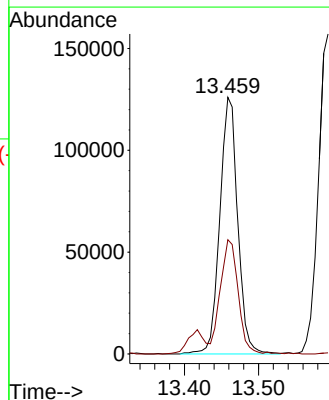
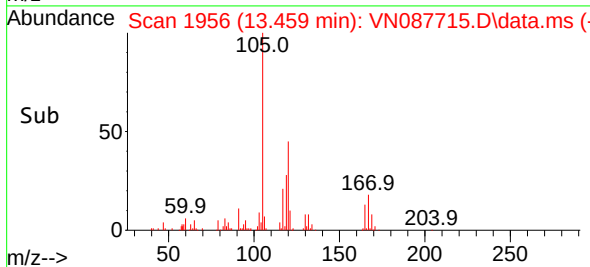
09/05/2025

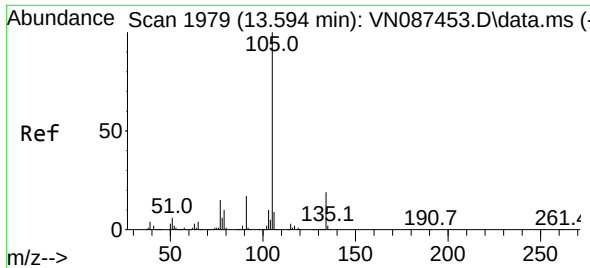


#80  
1,2,4-Trimethylbenzene  
Concen: 18.601 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04



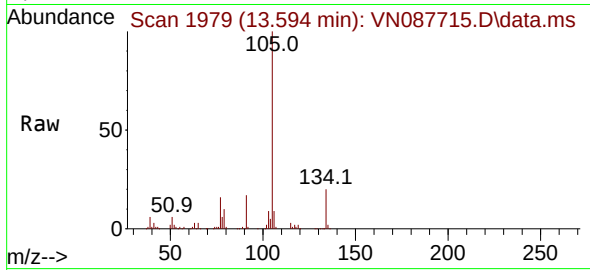
Tgt Ion:105 Resp: 211280  
Ion Ratio Lower Upper  
105 100  
120 43.5 0.0 87.2





#81  
 sec-Butylbenzene  
 Concen: 18.779 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01



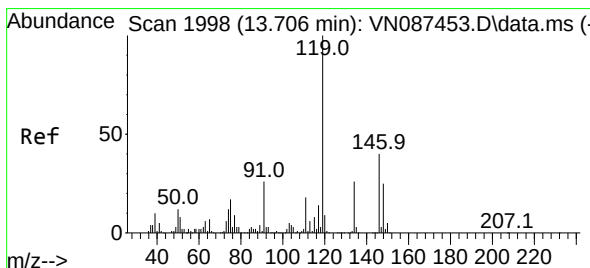
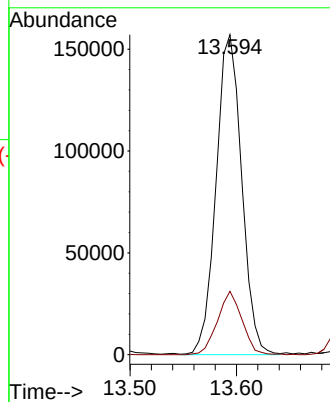
Tgt Ion:105 Resp: 26201  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 0.0 37.6

Manual Integrations  
 APPROVED

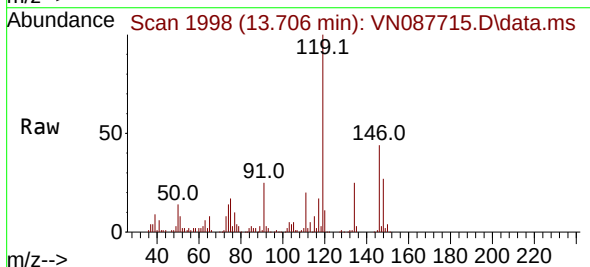
Reviewed By :Semsettin  
 Yesilyurt

09/05/2025  
 Supervised By :Mahesh  
 Dadoda

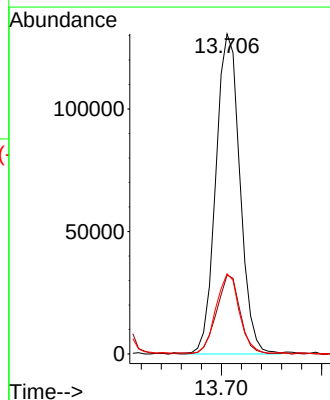
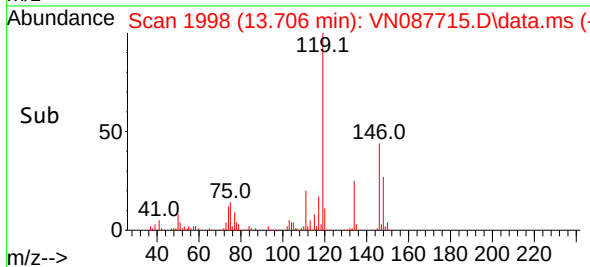
09/05/2025



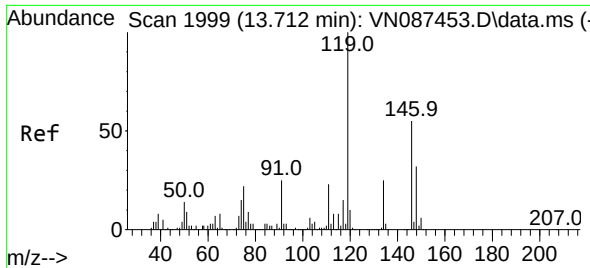
#82  
 p-Isopropyltoluene  
 Concen: 18.836 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04



Tgt Ion:119 Resp: 218207  
 Ion Ratio Lower Upper  
 119 100  
 134 24.0 0.0 51.4  
 91 24.3 0.0 52.0

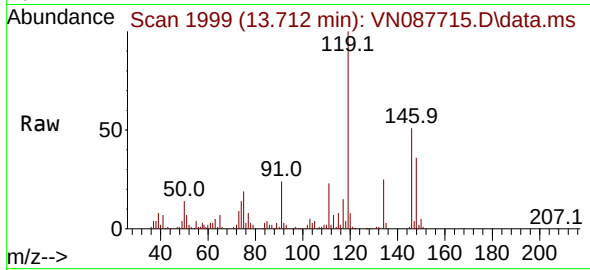






#83  
1,3-Dichlorobenzene  
Concen: 19.362 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



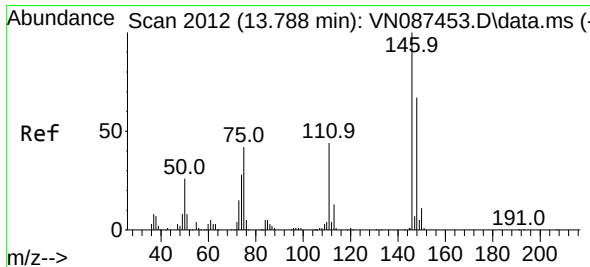
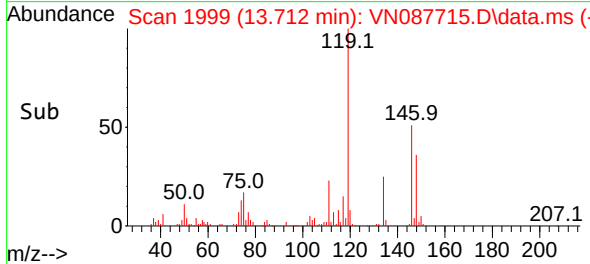
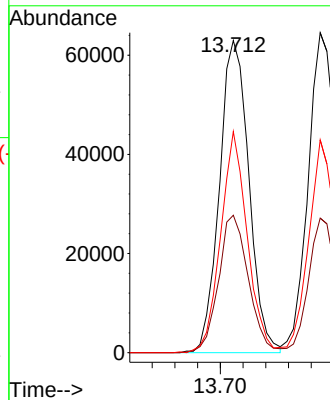
Tgt Ion:146 Resp: 113472  
Ion Ratio Lower Upper  
146 100  
111 44.6 21.9 65.5  
148 63.8 31.3 93.9

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

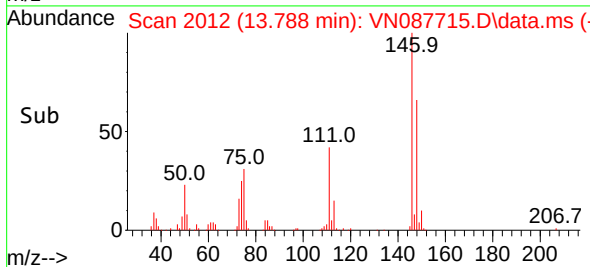
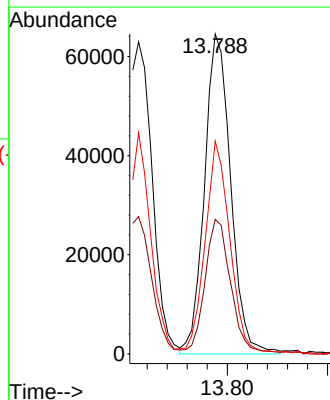
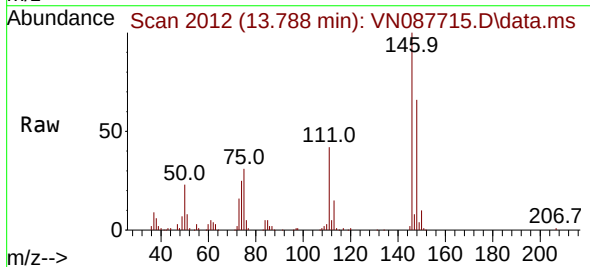
09/05/2025  
Supervised By :Mahesh  
Dadoda

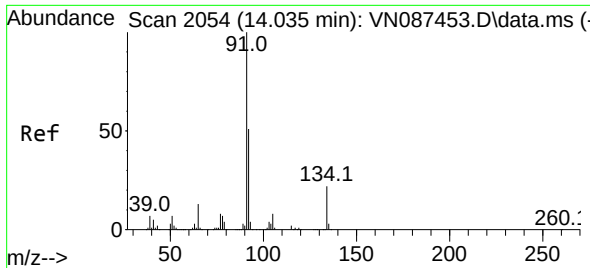
09/05/2025



#84  
1,4-Dichlorobenzene  
Concen: 19.743 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

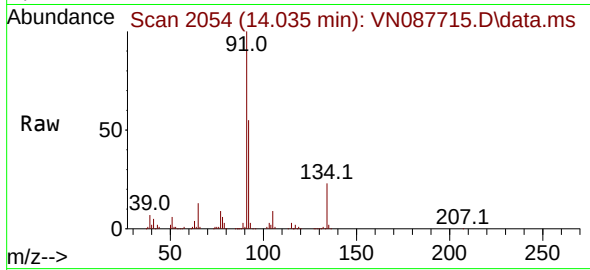
Tgt Ion:146 Resp: 117304  
Ion Ratio Lower Upper  
146 100  
111 41.5 21.1 63.1  
148 63.1 31.4 94.3





#85  
n-Butylbenzene  
Concen: 18.360 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



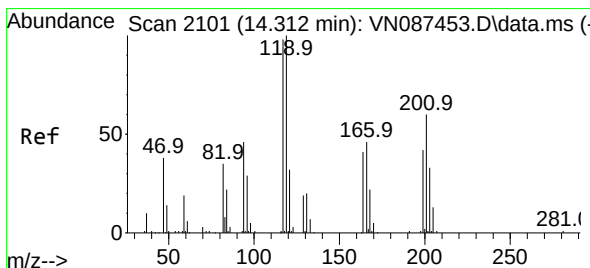
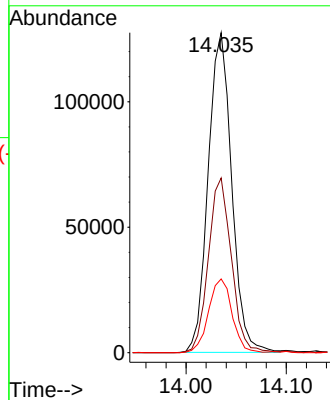
Tgt Ion: 91 Resp: 208098  
Ion Ratio Lower Upper  
91 100  
92 53.3 0.0 106.6  
134 23.0 0.0 44.4

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

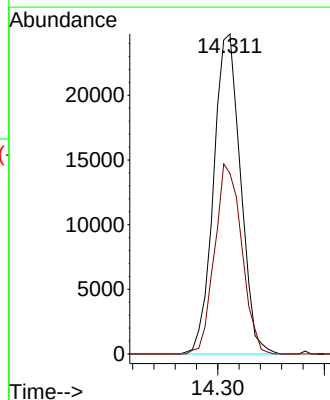
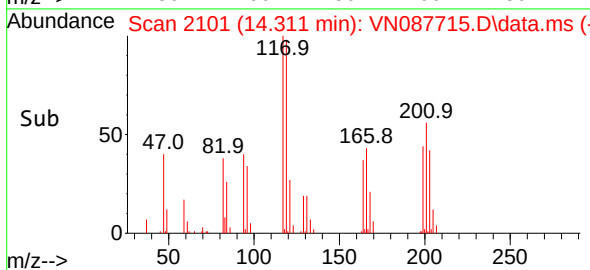
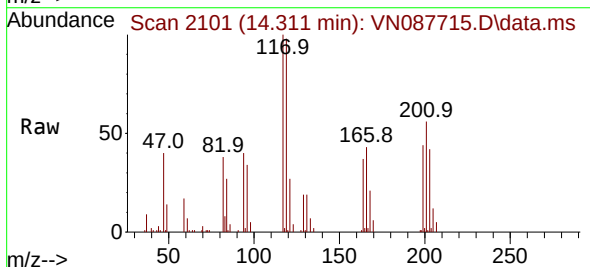
09/05/2025  
Supervised By :Mahesh  
Dadoda

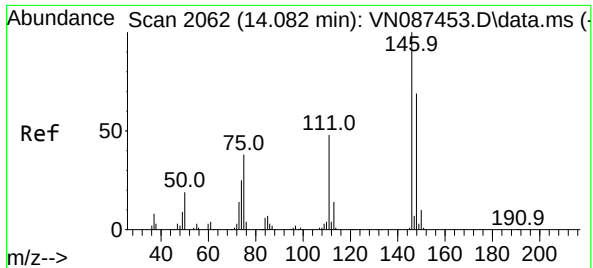
09/05/2025



#86  
Hexachloroethane  
Concen: 19.195 ug/l  
RT: 14.311 min Scan# 2101  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:117 Resp: 43424  
Ion Ratio Lower Upper  
117 100  
201 59.5 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 19.793 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

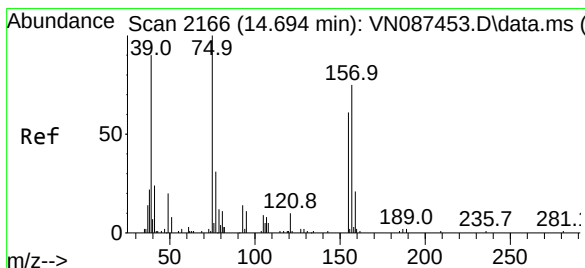
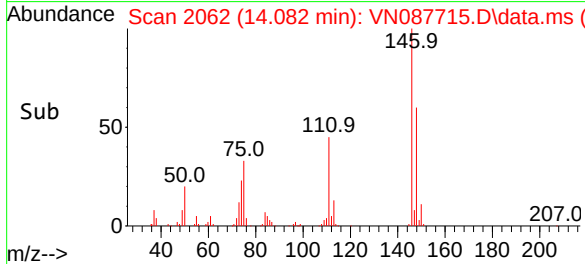
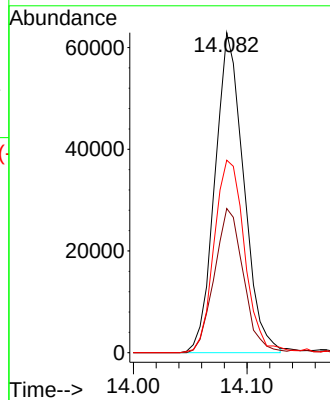
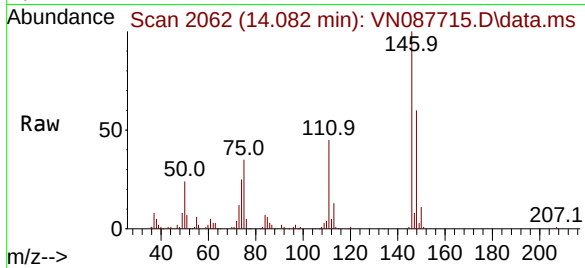
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 110728 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 45.5  | 22.9  | 68.7   |
| 148       | 63.4  | 31.6  | 94.7   |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.083 ug/l

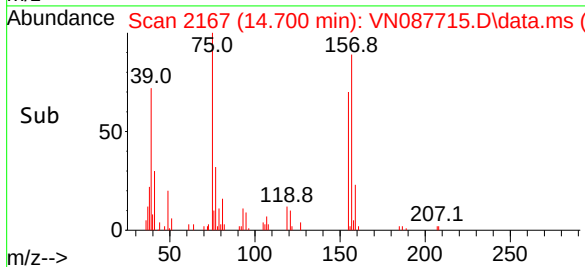
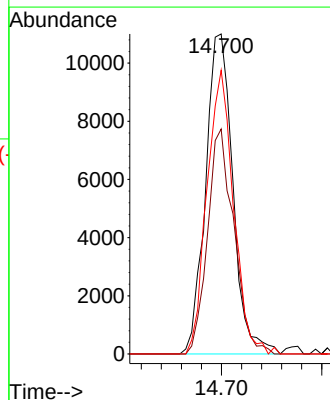
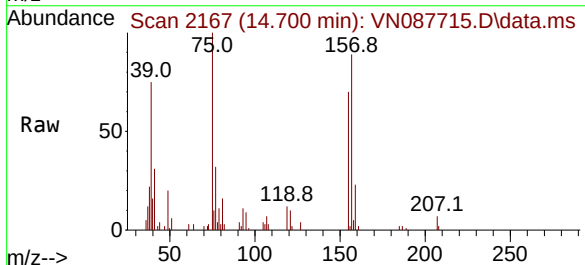
RT: 14.700 min Scan# 2167

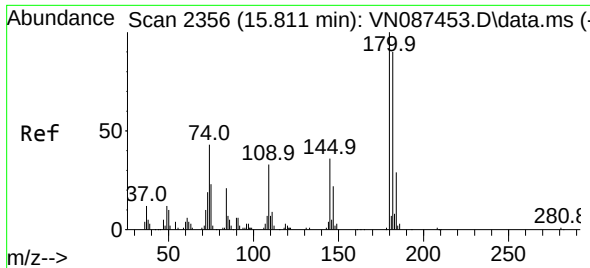
Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 20838 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 68.0  | 55.7  | 83.5  |
| 157       | 85.9  | 65.8  | 98.6  |





#89

1,2,4-Trichlorobenzene

Concen: 18.535 ug/l

RT: 15.806 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

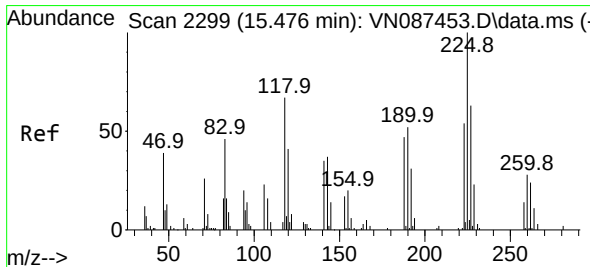
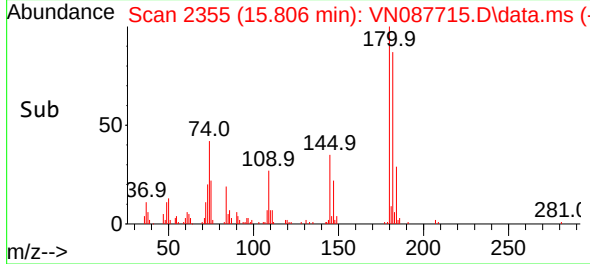
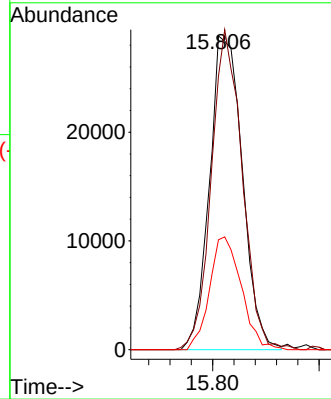
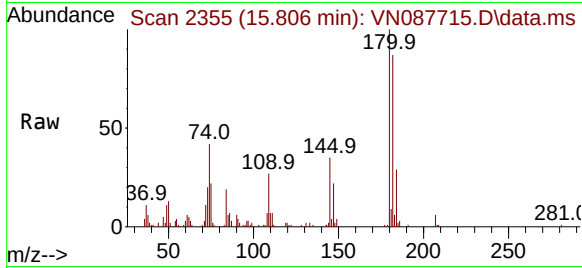
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 61968      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.5  | 75.0 112.4 |
| 145         | 34.7  | 28.6 43.0  |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt

09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#90

Hexachlorobutadiene

Concen: 17.336 ug/l

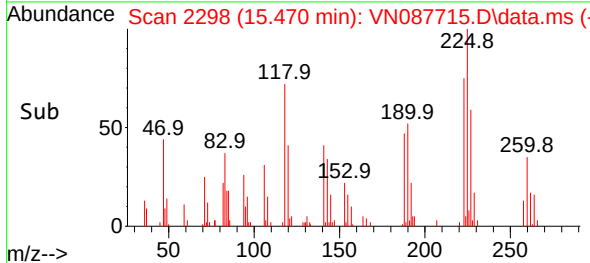
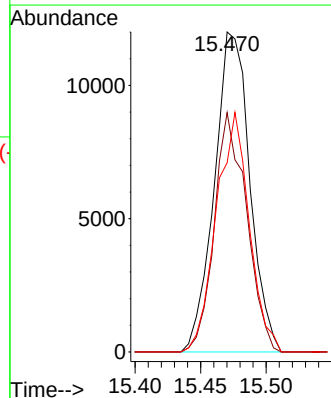
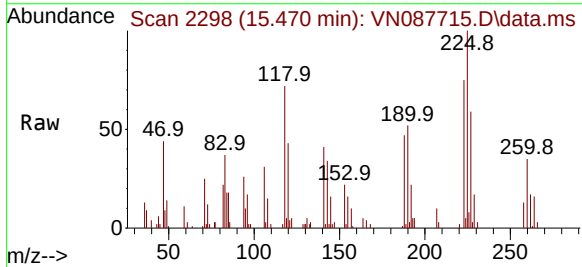
RT: 15.470 min Scan# 2298

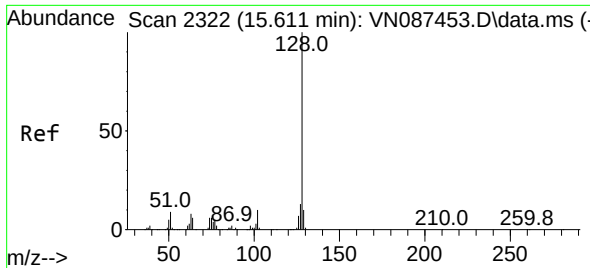
Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

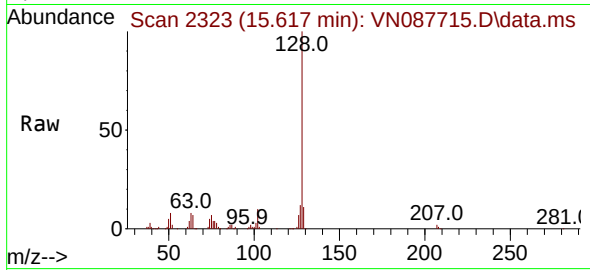
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 22537     |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 68.0  | 0.0 116.0 |
| 227         | 69.6  | 0.0 127.0 |





#91  
Naphthalene  
Concen: 17.372 ug/l  
RT: 15.617 min Scan# 2322  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01



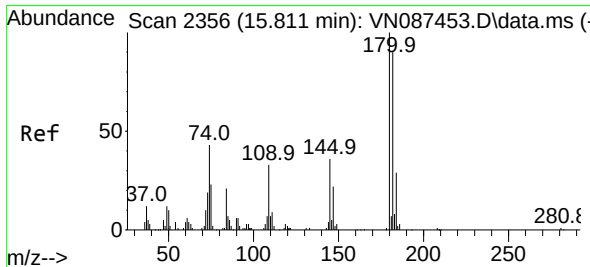
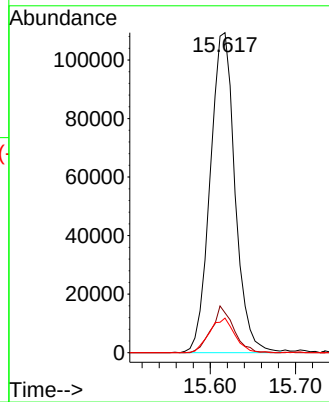
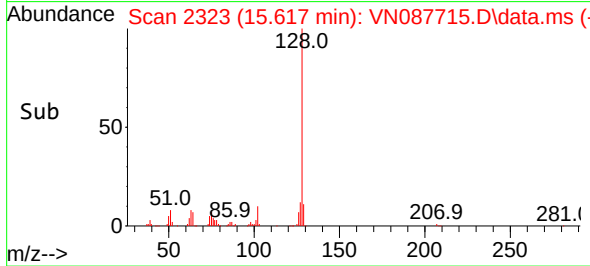
Tgt Ion:128 Resp: 221459  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 11.0 8.9 13.3

Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

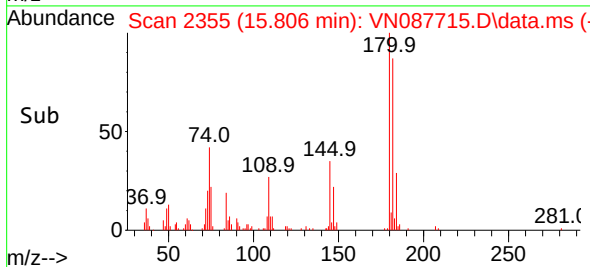
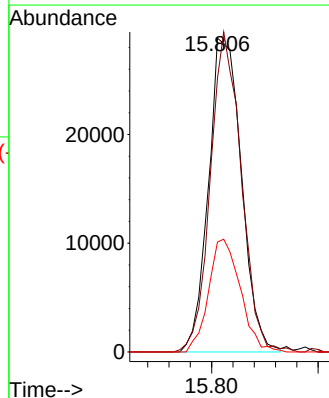
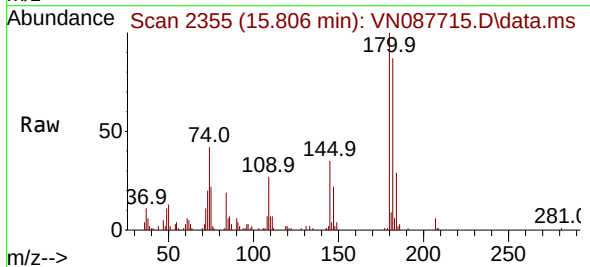
09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 18.535 ug/l  
RT: 15.806 min Scan# 2355  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:180 Resp: 61968  
Ion Ratio Lower Upper  
180 100  
182 94.5 0.0 187.4  
145 34.7 0.0 71.6



### Report of Analysis

|                    |                               |           |                 |               |
|--------------------|-------------------------------|-----------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: |               |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  |               |
| Client Sample ID:  | VN0904WBSD01                  |           | SDG No.:        | Q3017         |
| Lab Sample ID:     | VN0904WBSD01                  |           | Matrix:         | Water         |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087716.D        | 1         | 09/04/25 12:38 | VN090425      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                                |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane        | 20.4  |           | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane                  | 19.1  |           | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride                 | 20.8  |           | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane                   | 26.7  |           | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane                   | 21.7  |           | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane         | 22.5  |           | 0.80 | 5.00       | ug/L  |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 25.1  |           | 0.96 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene             | 22.0  |           | 0.76 | 5.00       | ug/L  |
| 67-64-1        | Acetone                        | 96.3  |           | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide               | 18.3  |           | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether        | 17.9  |           | 0.77 | 5.00       | ug/L  |
| 79-20-9        | Methyl Acetate                 | 23.1  |           | 0.91 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride             | 19.7  |           | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene       | 19.0  |           | 0.82 | 5.00       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane             | 18.7  |           | 0.68 | 5.00       | ug/L  |
| 110-82-7       | Cyclohexane                    | 18.2  |           | 0.92 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone                     | 98.4  |           | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride           | 20.9  |           | 0.74 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene         | 18.8  |           | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform                     | 19.6  |           | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane          | 21.0  |           | 0.63 | 5.00       | ug/L  |
| 108-87-2       | Methylcyclohexane              | 19.1  |           | 0.73 | 5.00       | ug/L  |
| 71-43-2        | Benzene                        | 20.1  |           | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane             | 19.2  |           | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene                | 20.9  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane            | 21.1  |           | 0.46 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane           | 20.1  |           | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone           | 100   |           | 3.00 | 25.0       | ug/L  |
| 108-88-3       | Toluene                        | 20.5  |           | 0.46 | 5.00       | ug/L  |
| 10061-02-6     | t-1,3-Dichloropropene          | 19.3  |           | 0.72 | 5.00       | ug/L  |

### Report of Analysis

|                    |                               |           |                 |               |
|--------------------|-------------------------------|-----------|-----------------|---------------|
| Client:            | Tetra Tech NUS, Inc.          |           | Date Collected: |               |
| Project:           | NWIRP Bethpage 112G08005-WE13 |           | Date Received:  |               |
| Client Sample ID:  | VN0904WBSD01                  |           | SDG No.:        | Q3017         |
| Lab Sample ID:     | VN0904WBSD01                  |           | Matrix:         | Water         |
| Analytical Method: | E624.1                        |           | % 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: | Date Analyzed  | Prep Batch ID |
| VN087716.D        | 1         | 09/04/25 12:38 | VN090425      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 10061-01-5                | cis-1,3-Dichloropropene     | 19.5   |           | 0.67     | 5.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane       | 22.1   |           | 0.45     | 5.00       | ug/L    |
| 591-78-6                  | 2-Hexanone                  | 92.7   |           | 3.20     | 25.0       | ug/L    |
| 124-48-1                  | Dibromochloromethane        | 21.1   |           | 0.66     | 5.00       | ug/L    |
| 106-93-4                  | 1,2-Dibromoethane           | 20.2   |           | 0.56     | 5.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene           | 21.9   |           | 0.84     | 5.00       | ug/L    |
| 108-90-7                  | Chlorobenzene               | 20.4   |           | 0.47     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene               | 19.8   |           | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes                 | 39.4   |           | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene                    | 19.3   |           | 0.67     | 5.00       | ug/L    |
| 100-42-5                  | Styrene                     | 19.3   |           | 0.72     | 5.00       | ug/L    |
| 75-25-2                   | Bromoform                   | 20.0   |           | 0.94     | 5.00       | ug/L    |
| 98-82-8                   | Isopropylbenzene            | 20.3   |           | 0.78     | 5.00       | ug/L    |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 21.2   |           | 0.44     | 5.00       | ug/L    |
| 108-67-8                  | 1,3,5-Trimethylbenzene      | 20.1   |           | 0.59     | 5.00       | ug/L    |
| 541-73-1                  | 1,3-Dichlorobenzene         | 21.7   |           | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 20.7   |           | 0.81     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 21.6   |           | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 19.2   |           | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 20.8   |           | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 20.8   |           | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 27.8   |           | 91 - 110 | 93%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 29.7   |           | 91 - 112 | 99%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 28.5   |           | 63 - 112 | 95%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 47000  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 246000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 223000 | 11.847    |          |            |         |

## Report of Analysis

|                    |                                           |                 |                              |
|--------------------|-------------------------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech NUS, Inc.                      | Date Collected: |                              |
| Project:           | NWIRP Bethpage 112G08005-WE13             | Date Received:  |                              |
| Client Sample ID:  | VN0904WBSD01                              | SDG No.:        | Q3017                        |
| Lab Sample ID:     | VN0904WBSD01                              | Matrix:         | Water                        |
| Analytical Method: | E624.1                                    | % 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: | Date Analyzed  | Prep Batch ID |
| VN087716.D        | 1         | 09/04/25 12:38 | VN090425      |

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087716.D  
 Acq On : 04 Sep 2025 12:38  
 Operator : JC\MD  
 Sample : VN0904WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin  
 Yesilyurt

Quant Time: Sep 05 02:19:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.794  | 128   | 46987    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 246294   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 222512   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 120474   | 27.798   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 92.667%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 109013   | 28.468   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 94.900%  |
| 63) Toluene-d8               | 10.547 | 98    | 303926   | 29.685   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 98.967%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 62535    | 20.385   | ug/l   | 94       |
| 3) Chloromethane             | 2.383  | 50    | 60059    | 19.082   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.536  | 62    | 69363    | 20.778   | ug/l   | 95       |
| 5) Bromomethane              | 2.971  | 94    | 48234    | 26.694   | ug/l   | 83       |
| 6) Chloroethane              | 3.136  | 64    | 46784    | 21.733   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506  | 101   | 108310   | 22.544   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.959  | 74    | 42508    | 21.237   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365  | 101   | 61513    | 25.108   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 56490    | 21.951   | ug/l   | 80       |
| 11) Methyl Iodide            | 4.583  | 142   | 36400    | 17.964   | ug/l   | 92       |
| 12) Methyl Acetate           | 5.018  | 43    | 109468   | 23.051   | ug/l # | 91       |
| 13) Acrolein                 | 4.171  | 56    | 76010    | 104.794  | ug/l   | 97       |
| 14) Acrylonitrile            | 5.706  | 53    | 193739   | 93.426   | ug/l   | 98       |
| 15) Acetone                  | 4.424  | 58    | 57070    | 96.319   | ug/l   | 86       |
| 16) Carbon Disulfide         | 4.700  | 76    | 146362   | 18.335   | ug/l   | 99       |
| 17) Allyl chloride           | 5.012  | 41    | 91309    | 17.408   | ug/l   | 91       |
| 18) Methylene Chloride       | 5.271  | 84    | 65247    | 19.695   | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 58256    | 19.036   | ug/l # | 94       |
| 20) Diisopropyl ether        | 6.659  | 45    | 224989   | 18.829   | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 115682   | 18.729   | ug/l # | 96       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 70834    | 18.812   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.524  | 59    | 71235    | 80.841   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 209746   | 17.887   | ug/l   | 97       |
| 25) Chloroform               | 7.953  | 83    | 126402   | 19.605   | ug/l   | 99       |
| 26) Cyclohexane              | 8.241  | 56    | 89790    | 18.156   | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 8.347  | 75    | 81325    | 20.245   | ug/l   | 99       |
| 30) 2-Butanone               | 7.471  | 43    | 291380   | 98.404   | ug/l # | 82       |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 103342   | 19.946   | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 8.147  | 97    | 107431   | 20.969   | ug/l   | 95       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 88828    | 20.870   | ug/l   | 94       |
| 34) Benzene                  | 8.588  | 78    | 254532   | 20.073   | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.759  | 41    | 57887    | 18.116   | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 98643    | 19.247   | ug/l   | 99       |
| 37) Trichloroethene          | 9.330  | 130   | 58350    | 20.890   | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.577  | 83    | 88823    | 19.060   | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 68663    | 21.119   | ug/l   | 97       |
| 40) Dibromomethane           | 9.688  | 93    | 50029    | 20.509   | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.865  | 83    | 101960   | 20.115   | ug/l   | 99       |
| 42) Vinyl Acetate            | 6.589  | 43    | 885124   | 90.770   | ug/l   | 98       |

09/05/2025  
 Supervised By : Mahesh  
 Madoda

09/05/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087716.D  
 Acq On : 04 Sep 2025 12:38  
 Operator : JC\MD  
 Sample : VN0904WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin  
 Yesilyurt

Quant Time: Sep 05 02:19:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |                        |
|-------------------------------|--------|------|----------|---------|--------|----------|------------------------|
| 43) Ethyl Acetate             | 7.547  | 43   | 111211   | 19.441  | ug/l   | 97       | 09/05/2025             |
| 44) Isopropyl Acetate         | 8.677  | 43   | 183479   | 18.922  | ug/l   | 97       | Supervised By : Mahesh |
| 45) 1,4-Dioxane               | 9.682  | 88   | 23806    | 385.110 | ug/l # | 87       | Dadoda                 |
| 46) Methyl methacrylate       | 9.659  | 41   | 80320    | 17.548  | ug/l   | 96       |                        |
| 47) n-amyl Acetate            | 12.541 | 43   | 101718m  | 18.989  | ug/l   |          |                        |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 106677   | 19.344  | ug/l   | 99       |                        |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 108236   | 19.503  | ug/l   | 93       | 09/05/2025             |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 68256    | 22.146  | ug/l   | 97       |                        |
| 51) Ethyl methacrylate        | 10.859 | 69   | 101895   | 18.772  | ug/l   | 95       |                        |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 113637   | 20.465  | ug/l   | 97       |                        |
| 53) Dibromochloromethane      | 11.335 | 129  | 75193    | 21.125  | ug/l   | 96       |                        |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 66187    | 20.230  | ug/l   | 99       |                        |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 294669   | 103.123 | ug/l   | 99       |                        |
| 56) Bromoform                 | 12.559 | 173  | 47049    | 19.985  | ug/l # | 99       |                        |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 579891   | 101.308 | ug/l   | 100      |                        |
| 59) 2-Hexanone                | 11.176 | 43   | 360418   | 92.671  | ug/l   | 99       |                        |
| 61) Tetrachloroethene         | 11.082 | 164  | 47378    | 21.855  | ug/l   | 94       |                        |
| 62) Toluene                   | 10.606 | 91   | 281160   | 20.473  | ug/l   | 98       |                        |
| 64) Chlorobenzene             | 11.871 | 112  | 171933   | 20.374  | ug/l   | 99       |                        |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 63573    | 21.427  | ug/l   | 95       |                        |
| 66) Ethyl Benzene             | 11.941 | 91   | 302575   | 19.767  | ug/l   | 99       |                        |
| 67) m/p-Xylenes               | 12.047 | 106  | 221209   | 39.370  | ug/l   | 99       |                        |
| 68) o-Xylene                  | 12.376 | 106  | 106491   | 19.265  | ug/l   | 97       |                        |
| 69) Styrene                   | 12.388 | 104  | 182406   | 19.326  | ug/l   | 97       |                        |
| 70) Isopropylbenzene          | 12.676 | 105  | 284473   | 20.257  | ug/l   | 100      |                        |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 102118   | 21.223  | ug/l   | 99       |                        |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 97496m   | 21.750  | ug/l   |          |                        |
| 73) Bromobenzene              | 12.959 | 156  | 66461    | 20.415  | ug/l   | 95       |                        |
| 74) n-propylbenzene           | 13.012 | 91   | 353290   | 20.144  | ug/l   | 100      |                        |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 210740   | 19.534  | ug/l   | 97       |                        |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 241598   | 20.093  | ug/l   | 98       |                        |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 32235    | 18.997  | ug/l   | 85       |                        |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 223950   | 20.484  | ug/l   | 99       |                        |
| 79) tert-butylbenzene         | 13.418 | 119  | 203336   | 20.057  | ug/l   | 97       |                        |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 239788   | 19.957  | ug/l   | 99       |                        |
| 81) sec-Butylbenzene          | 13.594 | 105  | 304693   | 20.645  | ug/l   | 99       |                        |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 248332   | 20.265  | ug/l   | 99       |                        |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 134671   | 21.724  | ug/l   | 99       |                        |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 129848   | 20.660  | ug/l   | 97       |                        |
| 85) n-Butylbenzene            | 14.035 | 91   | 245310   | 20.461  | ug/l   | 98       |                        |
| 86) Hexachloroethane          | 14.306 | 117  | 49777    | 20.801  | ug/l   | 96       |                        |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 127712   | 21.582  | ug/l   | 98       |                        |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 23453    | 19.240  | ug/l   | 98       |                        |
| 89) 1,2,4-Trichlorobenzene    | 15.817 | 180  | 73596    | 20.810  | ug/l   | 98       |                        |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 26926    | 19.580  | ug/l   | 97       |                        |
| 91) Naphthalene               | 15.611 | 128  | 260334   | 19.306  | ug/l   | 99       |                        |
| 92) 1,2,3-Trichlorobenzene    | 15.817 | 180  | 73596    | 20.810  | ug/l   | 98       |                        |

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

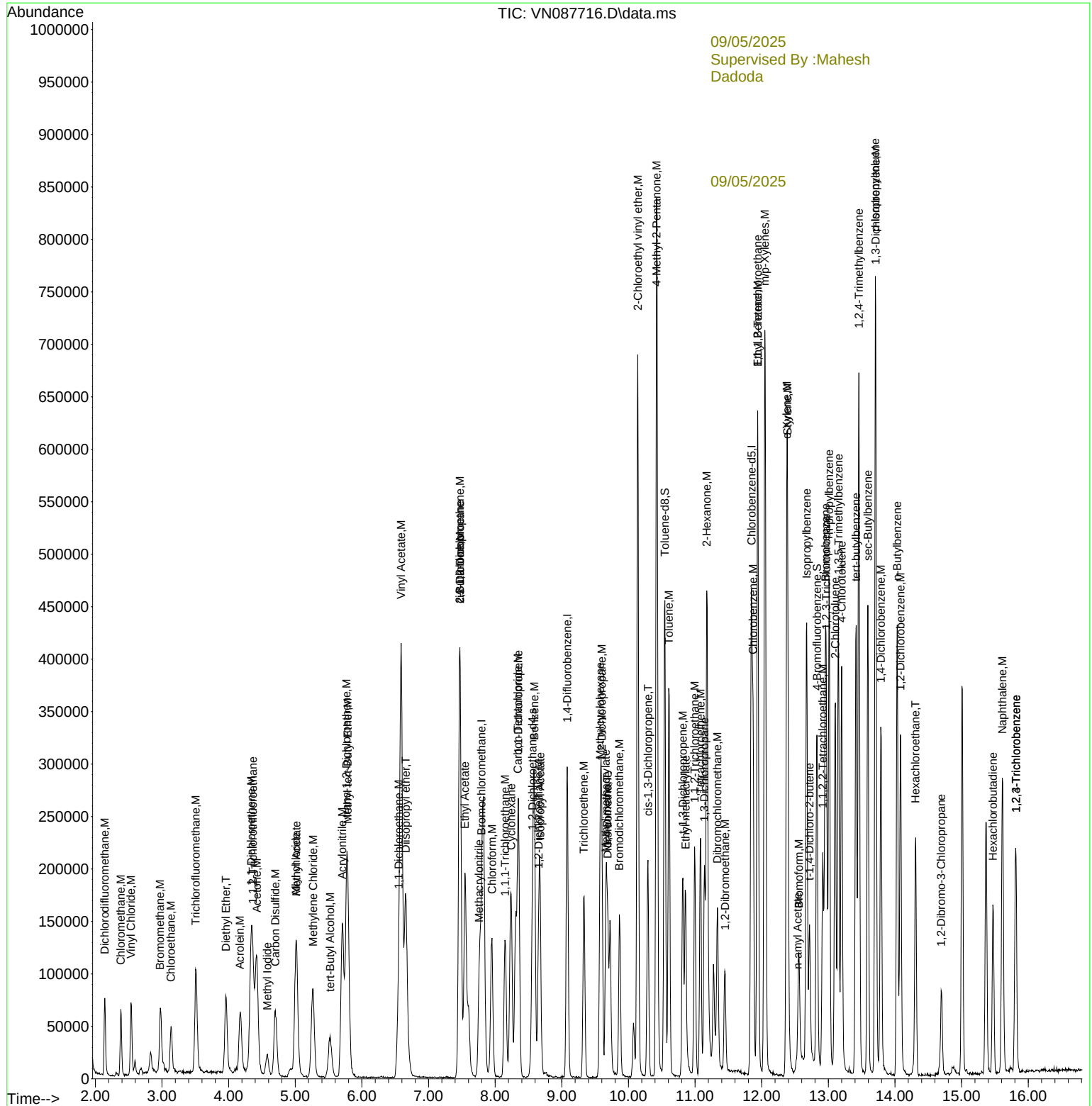
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087716.D  
Acq On : 04 Sep 2025 12:38  
Operator : JC\MD  
Sample : VN0904WBSD01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

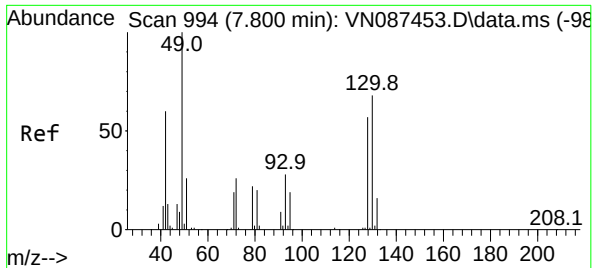
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VN0904WBSD01

## Manual Integrations

Reviewed By :Semsettin  
Yesilyurt

Quant Time: Sep 05 02:19:01 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
Qlast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration





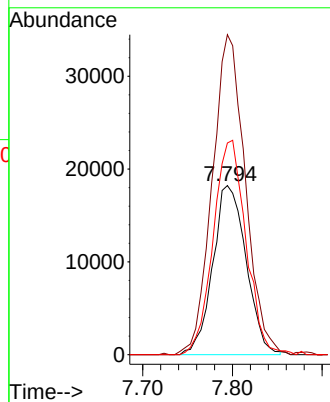
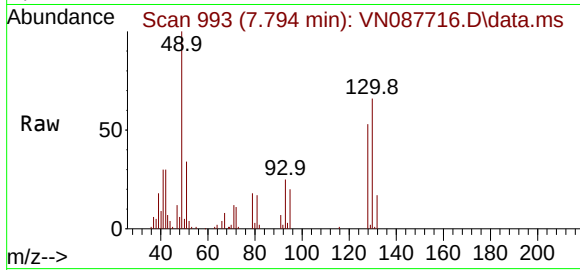
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
Client Sample Id :  
VN0904WBSD01

Tgt Ion:128 Resp: 4698  
Ion Ratio Lower Upper  
128 100  
49 187.4 0.0 494.8  
130 124.9 0.0 321.5

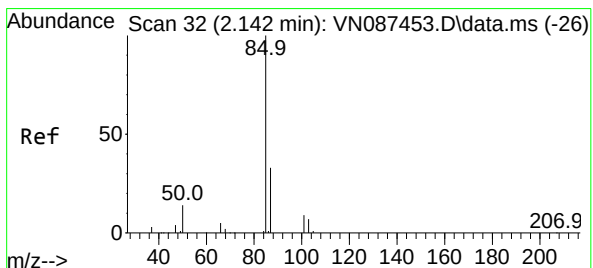
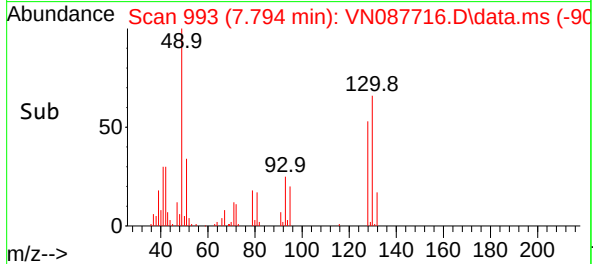
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



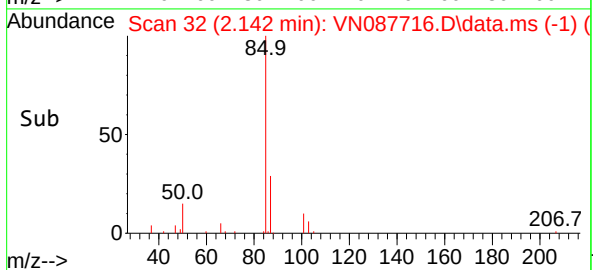
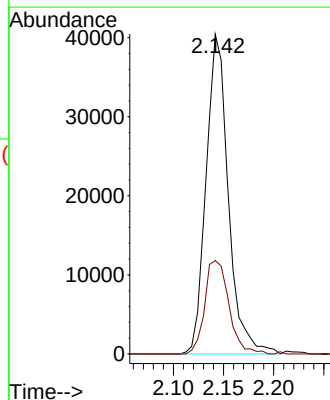
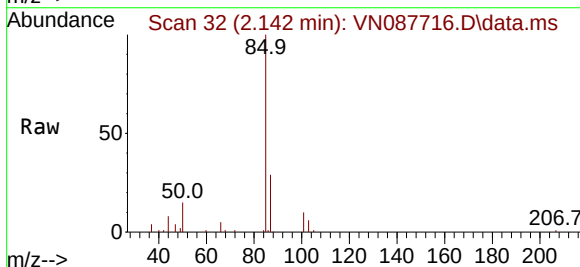
09/05/2025  
Supervised By :Mahesh  
Dadoda

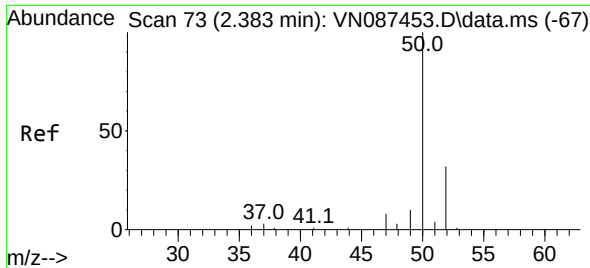
09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 20.385 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

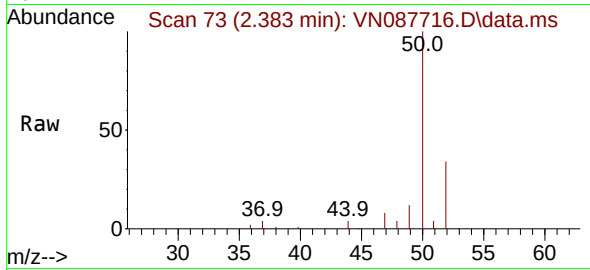
Tgt Ion: 85 Resp: 62535  
Ion Ratio Lower Upper  
85 100  
87 29.2 16.4 49.2





#3  
Chloromethane  
Concen: 19.082 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

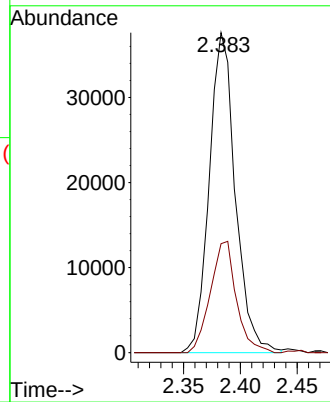
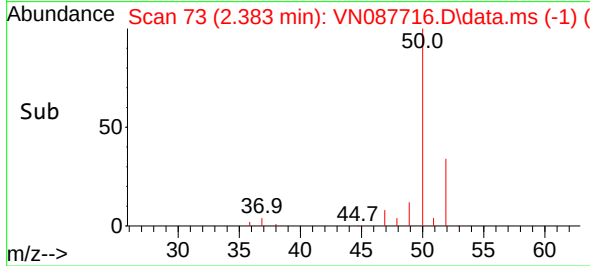
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 50 Resp: 60059  
Ion Ratio Lower Upper  
50 100  
52 34.1 25.8 38.6

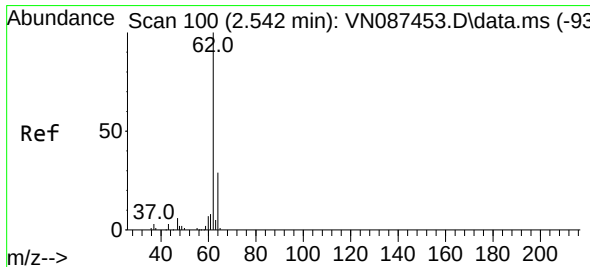
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

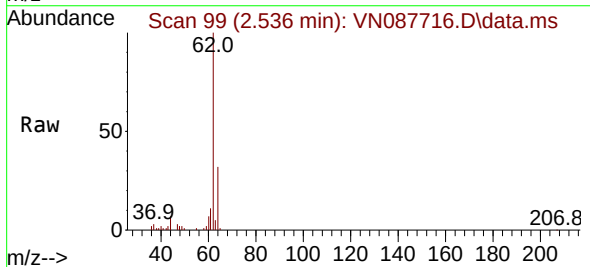


09/05/2025  
Supervised By :Mahesh  
Dadoda

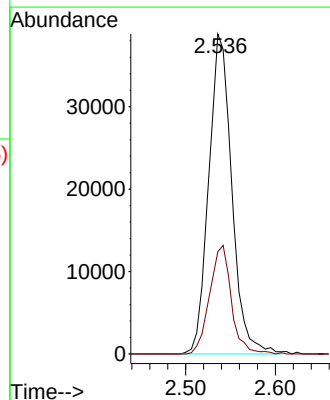
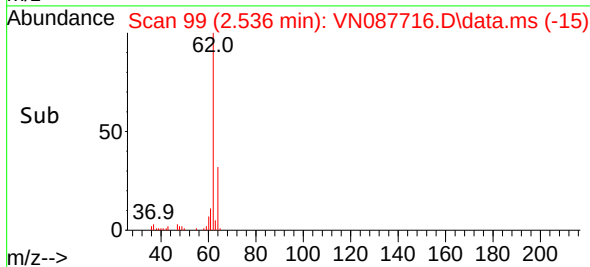
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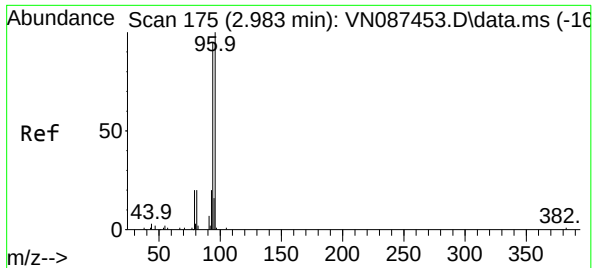


#4  
Vinyl Chloride  
Concen: 20.778 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



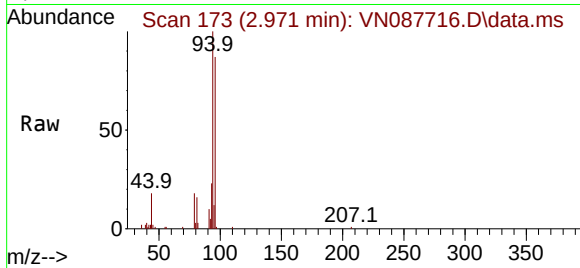
Tgt Ion: 62 Resp: 69363  
Ion Ratio Lower Upper  
62 100  
64 32.0 23.4 35.2





#5  
Bromomethane  
Concen: 26.694 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

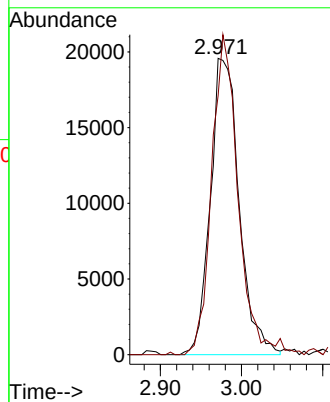
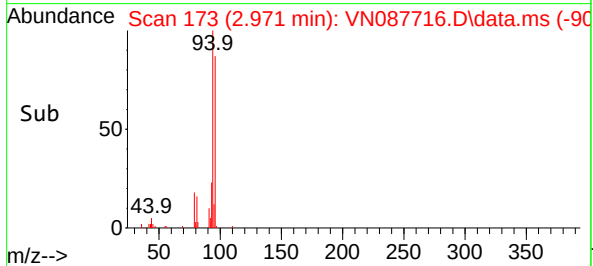
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 94 Resp: 48234  
Ion Ratio Lower Upper  
94 100  
96 87.4 84.2 126.4

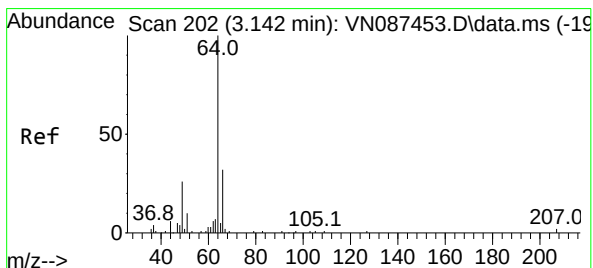
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



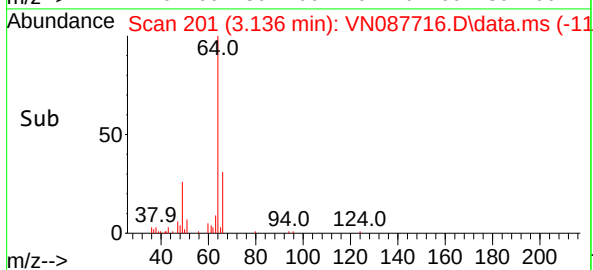
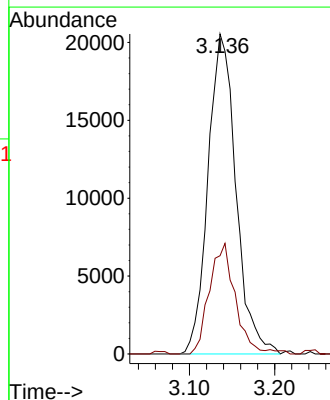
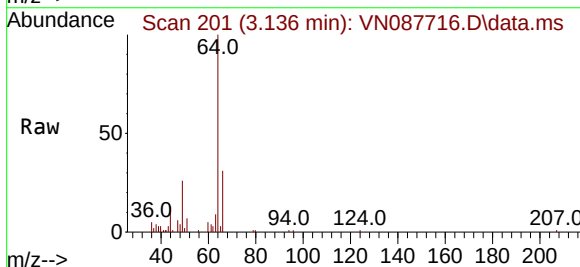
09/05/2025  
Supervised By :Mahesh  
Dadoda

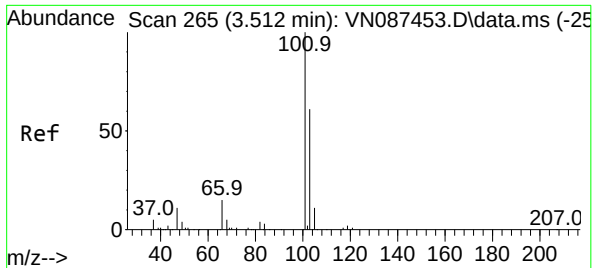
09/05/2025



#6  
Chloroethane  
Concen: 21.733 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

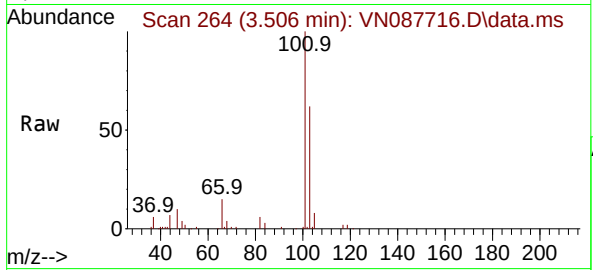
Tgt Ion: 64 Resp: 46784  
Ion Ratio Lower Upper  
64 100  
66 30.7 25.4 38.0





#7  
Trichlorofluoromethane  
Concen: 22.544 ug/l  
RT: 3.506 min Scan# 265  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

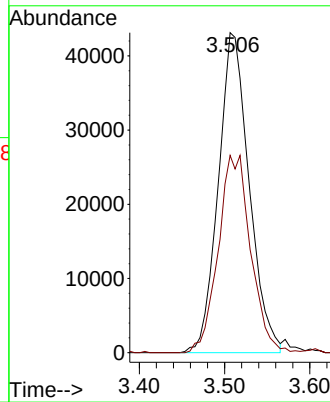
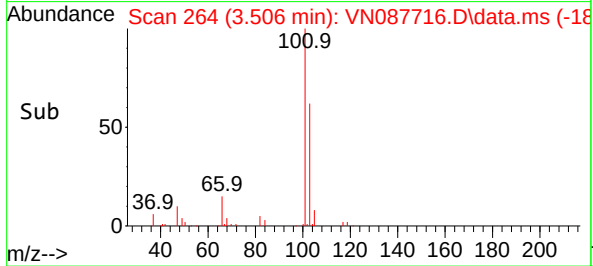
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:101 Resp: 108310  
Ion Ratio Lower Upper  
101 100  
103 61.6 49.2 73.8

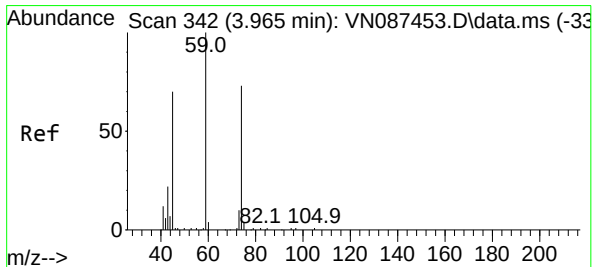
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



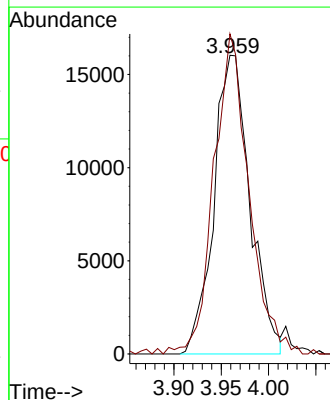
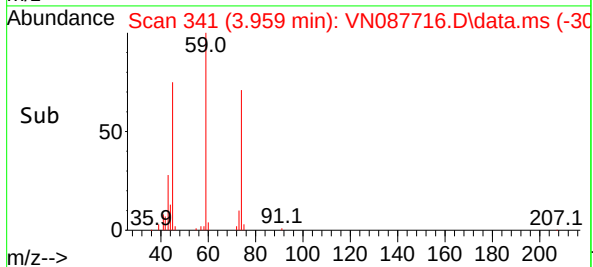
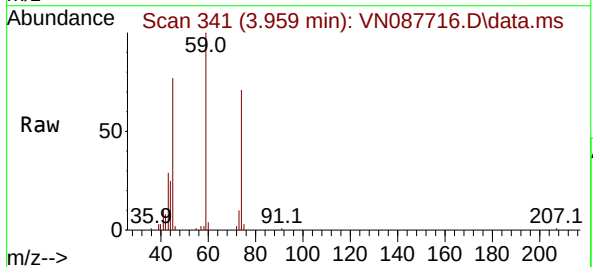
09/05/2025  
Supervised By :Mahesh  
Dadoda

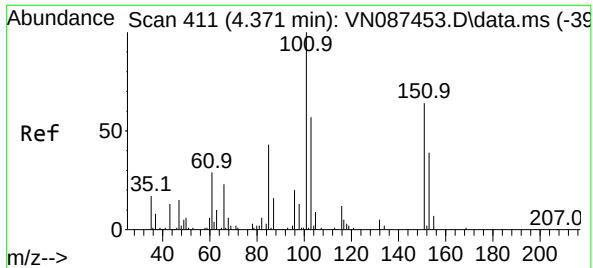
09/05/2025



#8  
Diethyl Ether  
Concen: 21.237 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 74 Resp: 42508  
Ion Ratio Lower Upper  
74 100  
45 103.4 20.1 180.9





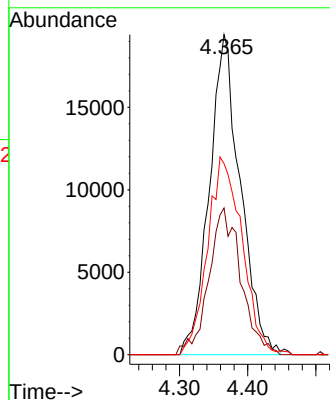
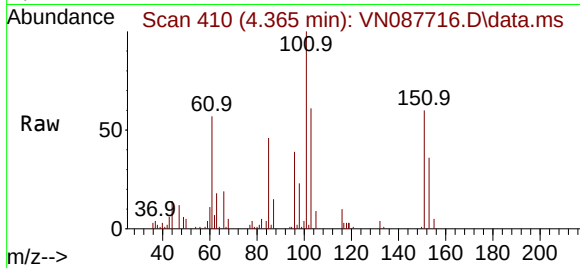
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 25.108 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion:101 Resp: 6151  
Ion Ratio Lower Upper  
101 100  
85 29.2 0.0 57.0  
151 68.4 0.0 134.2

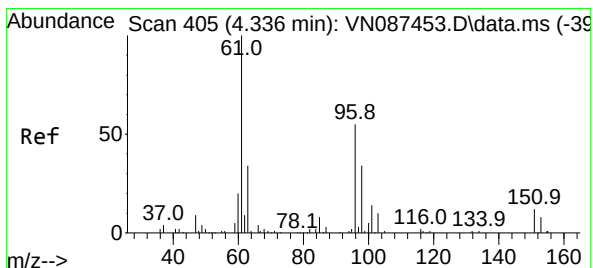
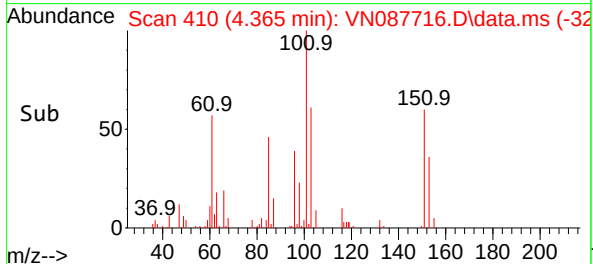
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



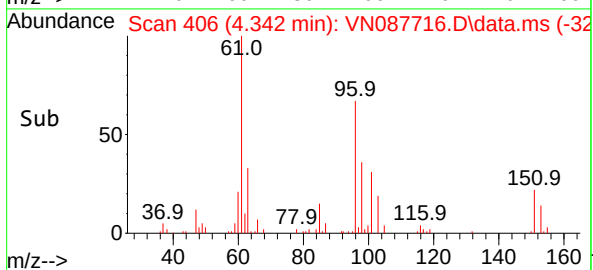
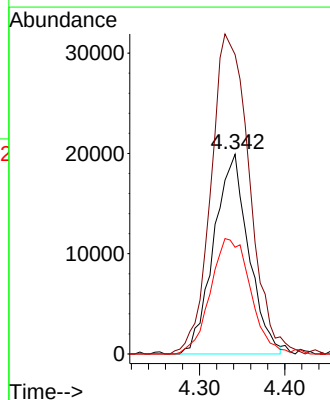
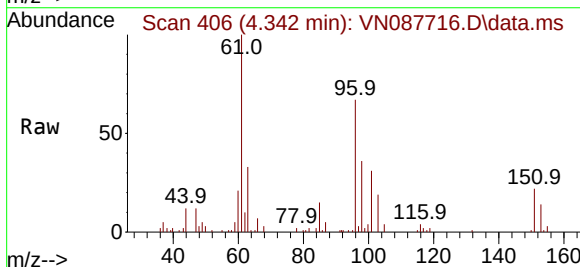
09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025

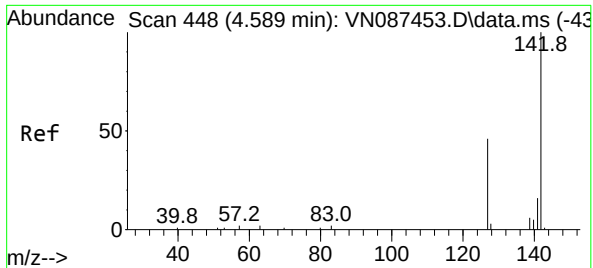


#10  
1,1-Dichloroethene  
Concen: 21.951 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 96 Resp: 56490  
Ion Ratio Lower Upper  
96 100  
61 147.4 144.2 216.4  
98 52.7 49.7 74.5







#11

Methyl Iodide

Concen: 17.964 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

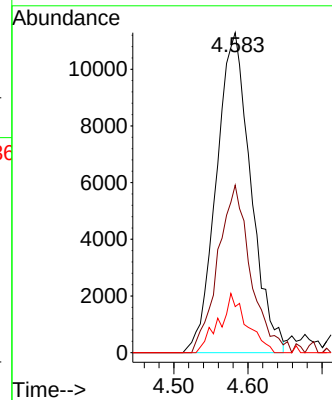
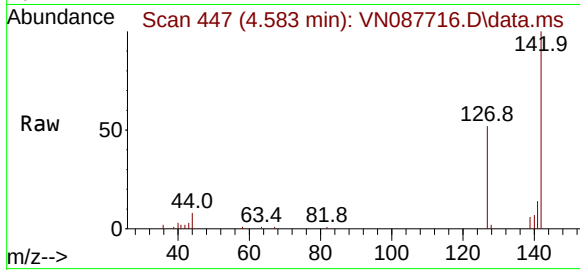
ClientSampleId :

VN0904WBSD01

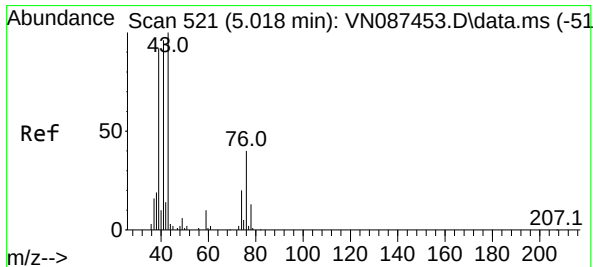
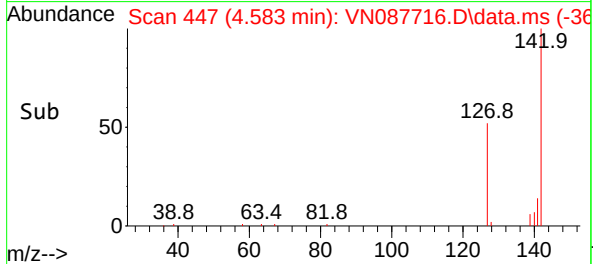
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 52.1  | 22.9  | 68.7  |
| 141     | 14.7  | 7.7   | 23.1  |

Manual Integrations

APPROVED

Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#12

Methyl Acetate

Concen: 23.051 ug/l

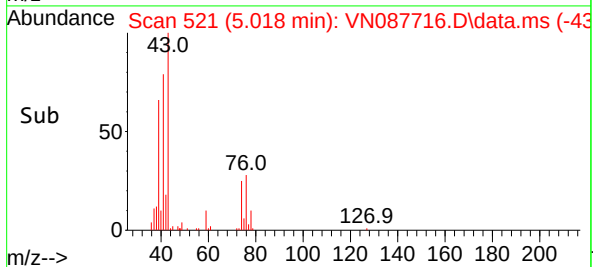
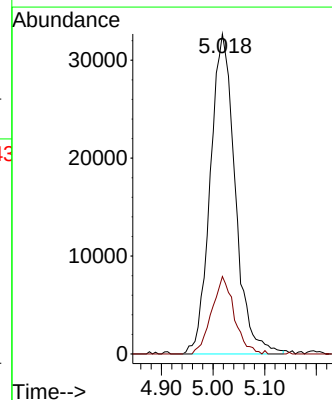
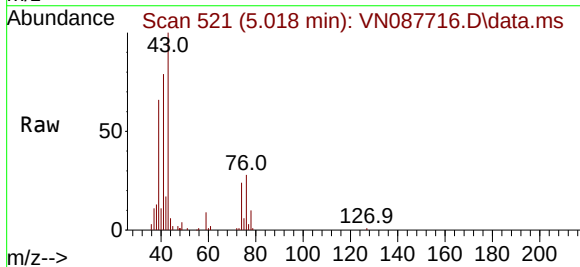
RT: 5.018 min Scan# 521

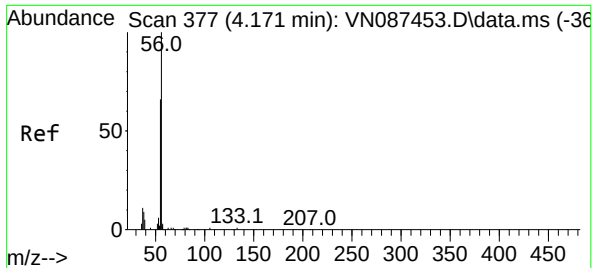
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 24.3  | 16.0  | 24.0  |





#13

Acrolein

Concen: 104.794 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 56 Resp: 76010

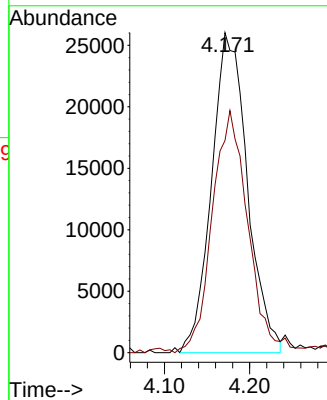
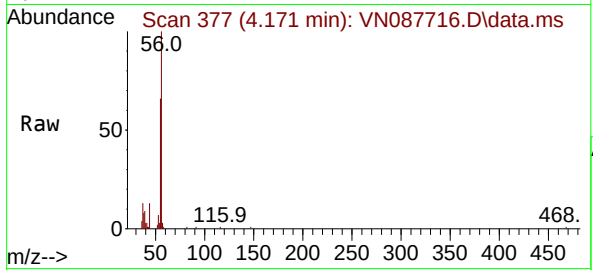
Ion Ratio Lower Upper

56 100

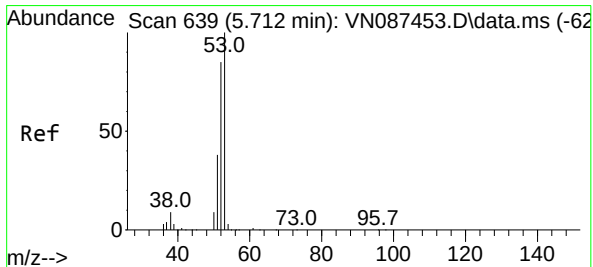
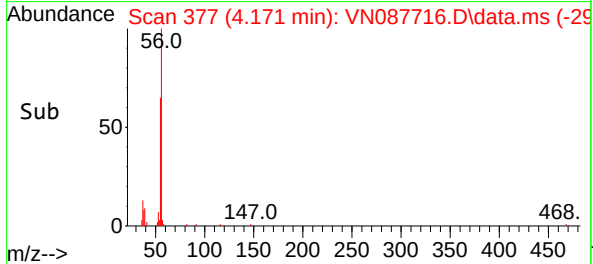
55 74.1 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#14

Acrylonitrile

Concen: 93.426 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

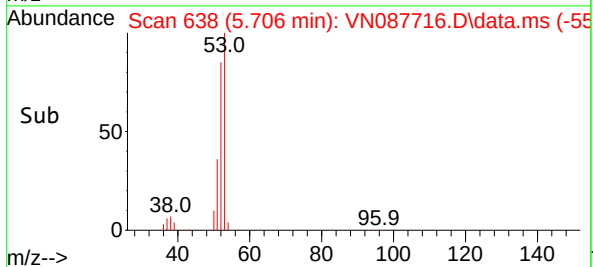
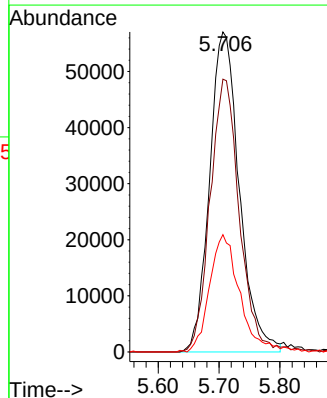
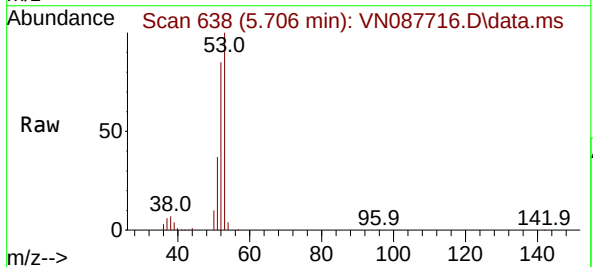
Tgt Ion: 53 Resp: 193739

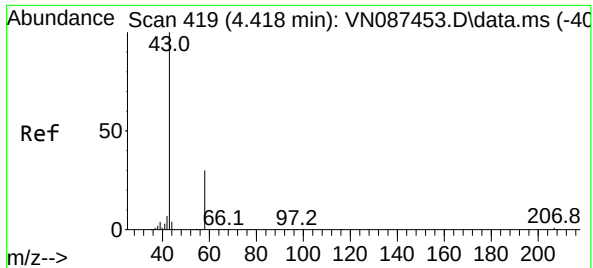
Ion Ratio Lower Upper

53 100

52 82.8 42.4 127.2

51 35.8 18.5 55.5





#15

Acetone

Concen: 96.319 ug/l

RT: 4.424 min Scan# 419

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 58 Resp: 57070

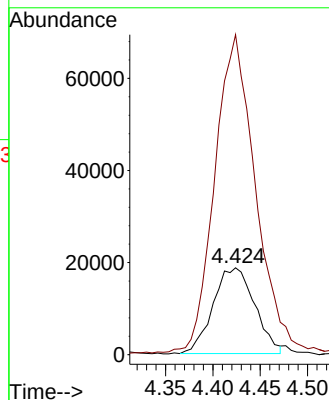
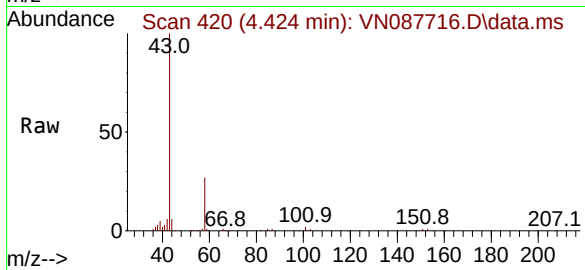
Ion Ratio Lower Upper

58 100

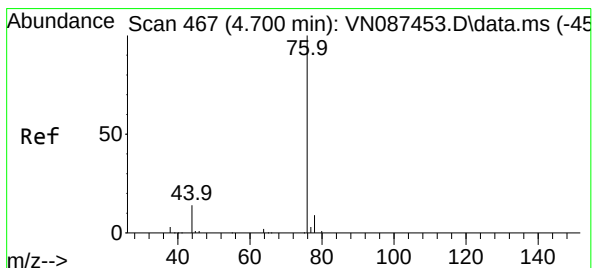
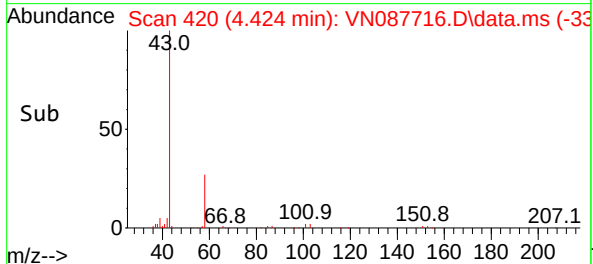
43 366.4 268.9 403.3

Manual Integrations

APPROVED

Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#16

Carbon Disulfide

Concen: 18.335 ug/l

RT: 4.700 min Scan# 467

Delta R.T. 0.000 min

Lab File: VN087716.D

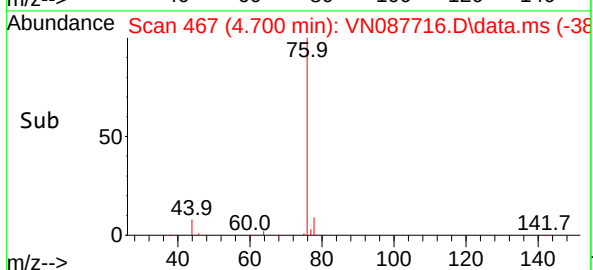
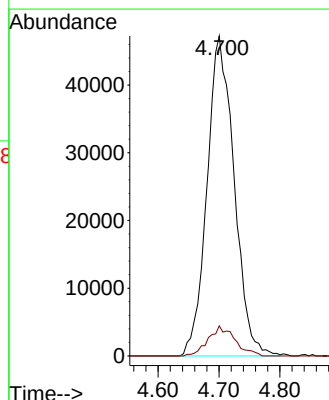
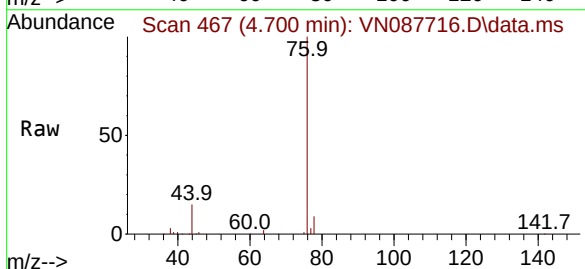
Acq: 04 Sep 2025 12:38

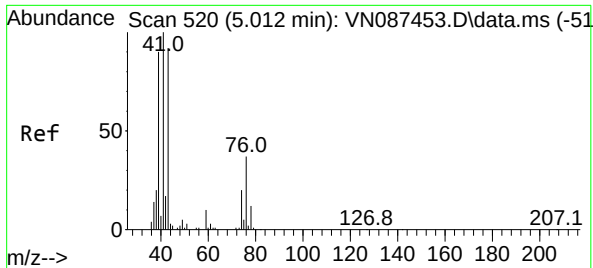
Tgt Ion: 76 Resp: 146362

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7





#17

Allyl chloride

Concen: 17.408 ug/l

RT: 5.012 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

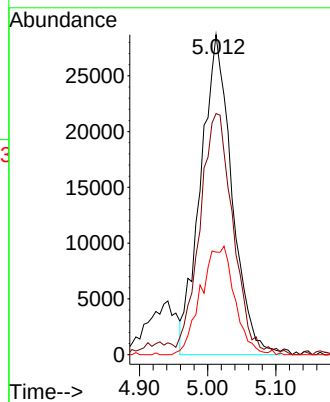
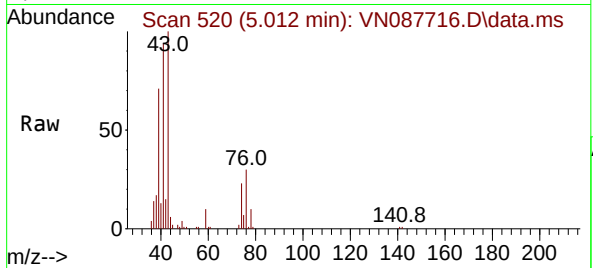
Instrument :

MSVOA\_N

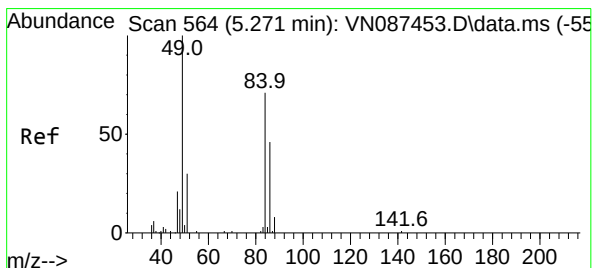
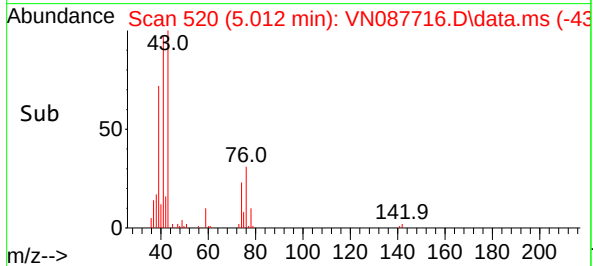
ClientSampleId :

VN0904WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 91309 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 39        | 75.1  | 42.4  | 127.2 |
| 76        | 31.8  | 16.9  | 50.6  |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#18

Methylene Chloride

Concen: 19.695 ug/l

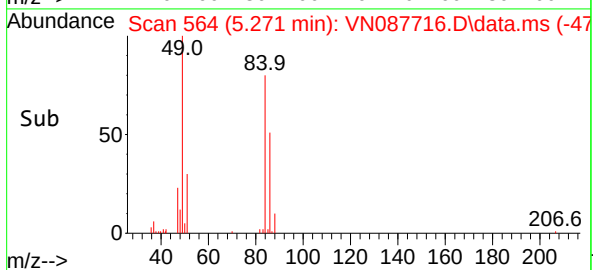
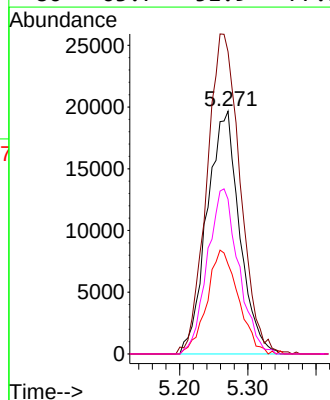
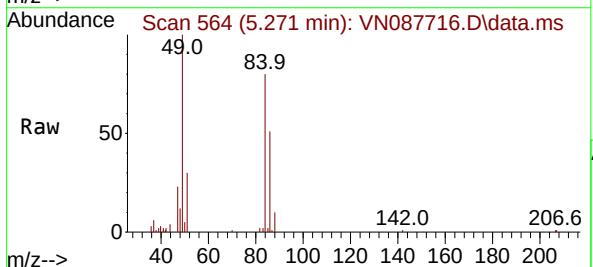
RT: 5.271 min Scan# 564

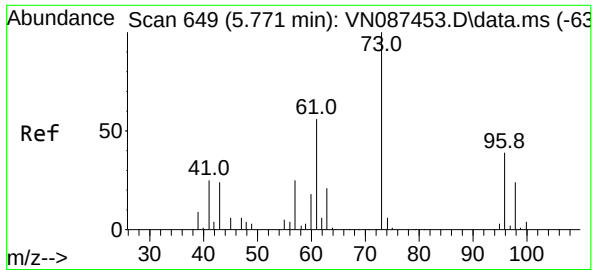
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 84    | Resp: | 65247 |
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 49        | 123.6 | 112.9 | 169.3 |
| 51        | 37.0  | 33.8  | 50.8  |
| 86        | 63.7  | 51.9  | 77.9  |





#19

trans-1,2-Dichloroethene

Concen: 19.036 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 96 Resp: 58250

Ion Ratio Lower Upper

96 100

61 144.3 114.2 171.4

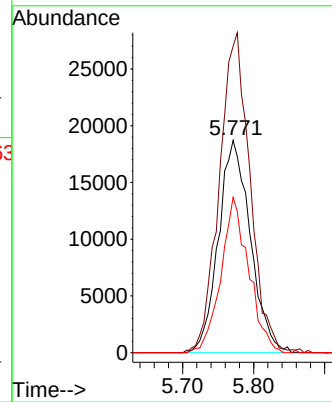
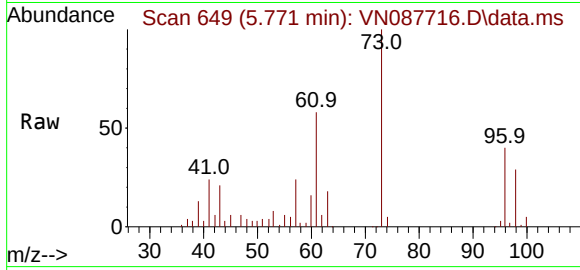
98 73.2 48.7 73.1

Manual Integrations

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Reviewed By :Semsettin

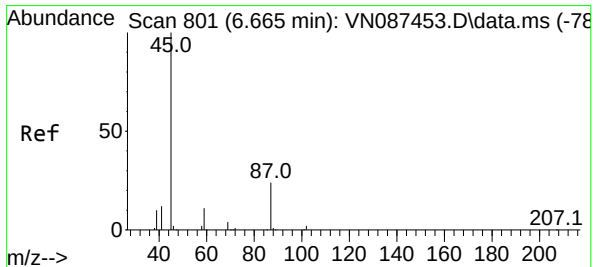
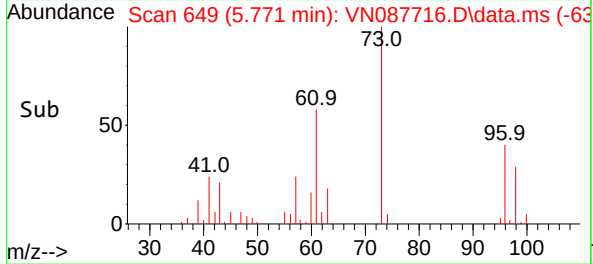
Yesilyurt



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Supervised By :Mahesh  
Dadoda

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#20

Diisopropyl ether

Concen: 18.829 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion: 45 Resp: 224989

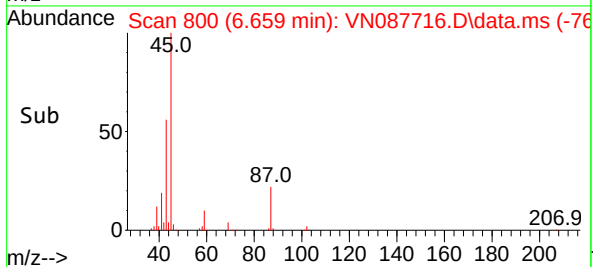
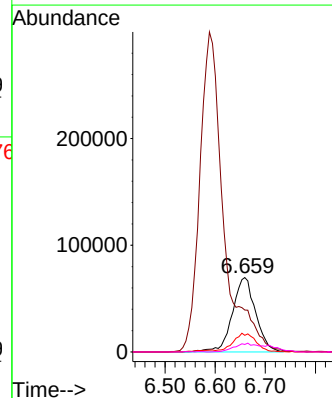
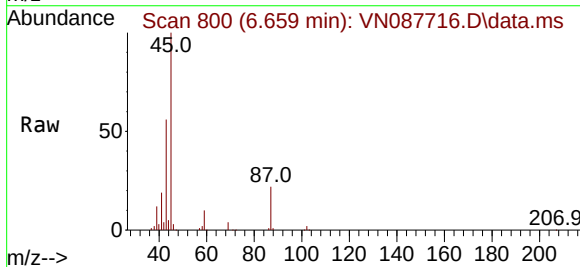
Ion Ratio Lower Upper

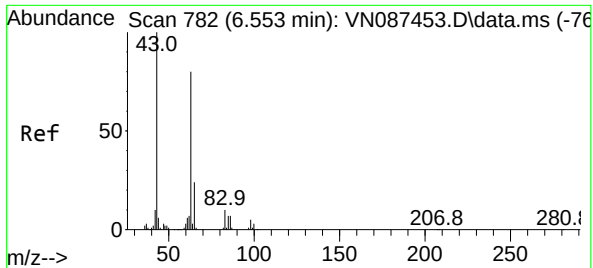
45 100

43 54.6 44.7 67.1

87 22.0 20.2 30.2

59 9.8 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.729 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 63 Resp: 11568

Ion Ratio Lower Upper

63 100

98 6.7 3.0 9.0

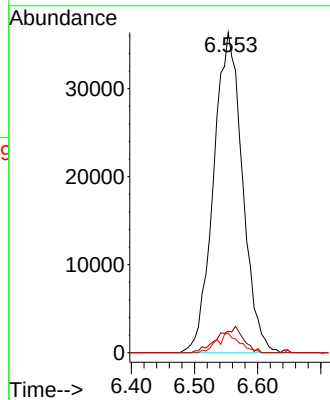
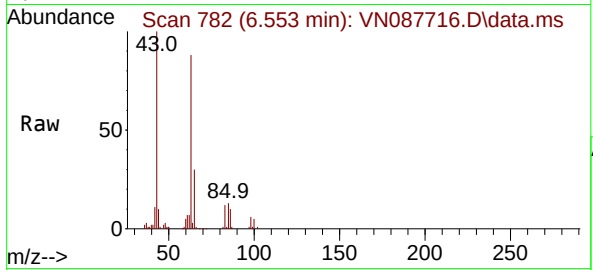
100 6.1 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

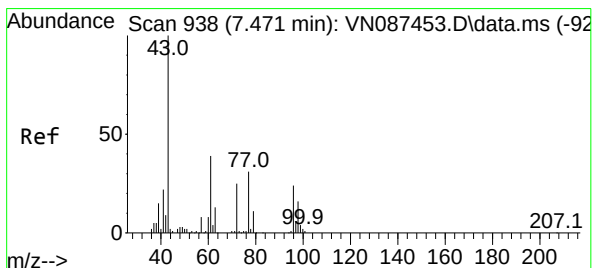
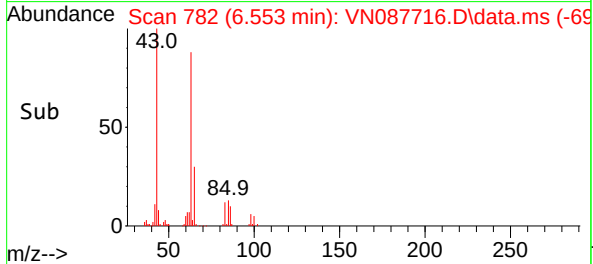


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Supervised By :Mahesh

Dadoda

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#22

cis-1,2-Dichloroethene

Concen: 18.812 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

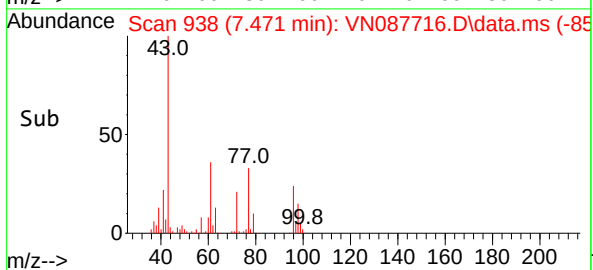
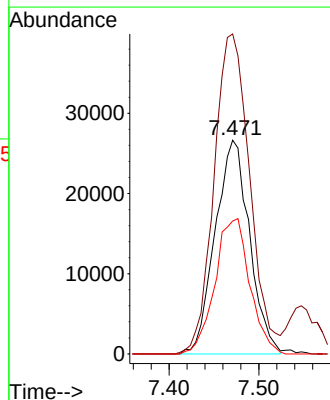
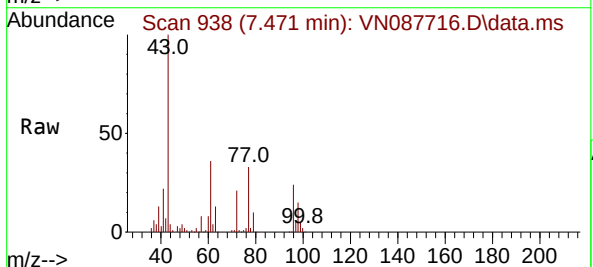
Tgt Ion: 96 Resp: 70834

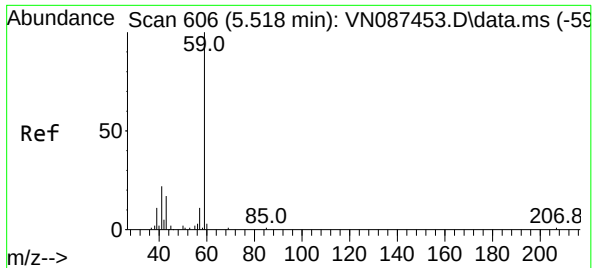
Ion Ratio Lower Upper

96 100

61 155.5 126.6 190.0

98 64.1 50.9 76.3





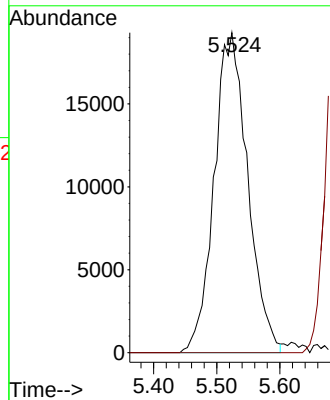
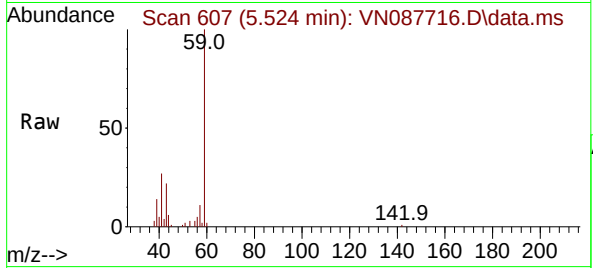
#23  
tert-Butyl Alcohol  
Concen: 80.841 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 59 Resp: 71235  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

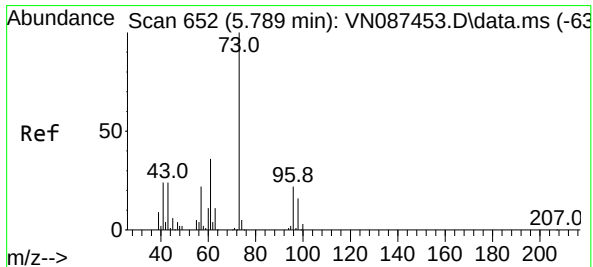
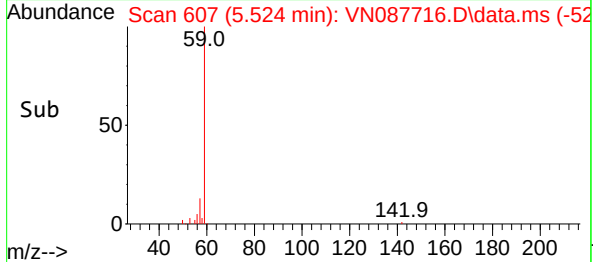
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



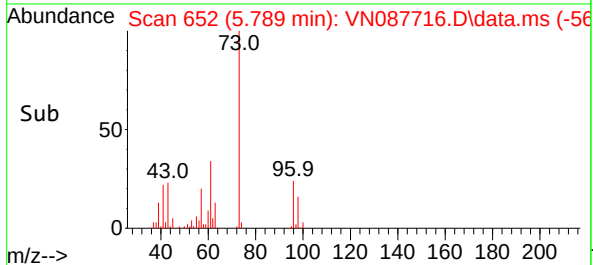
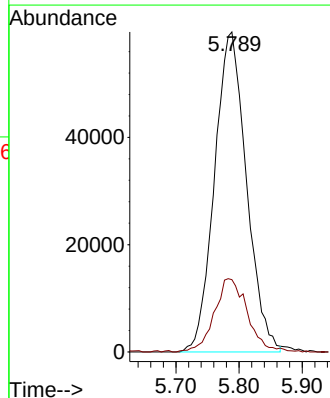
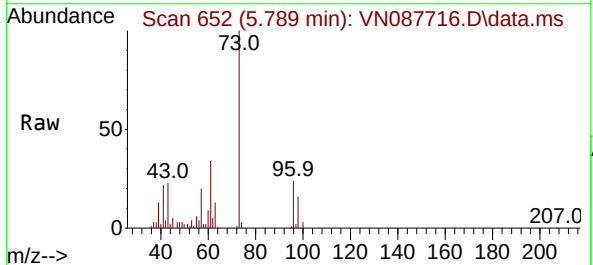
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Dadoda

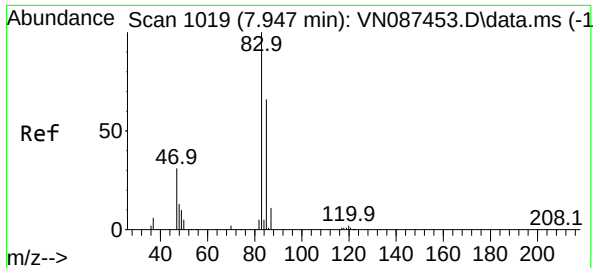
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#24  
Methyl tert-Butyl Ether  
Concen: 17.887 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 73 Resp: 209746  
Ion Ratio Lower Upper  
73 100  
43 23.3 19.9 29.9





#25

Chloroform

Concen: 19.605 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 83 Resp: 12640

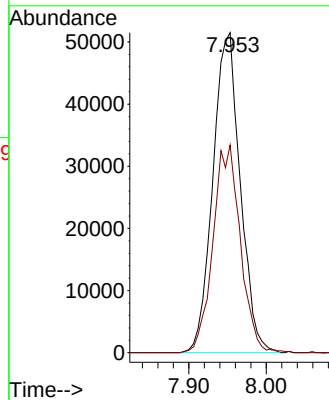
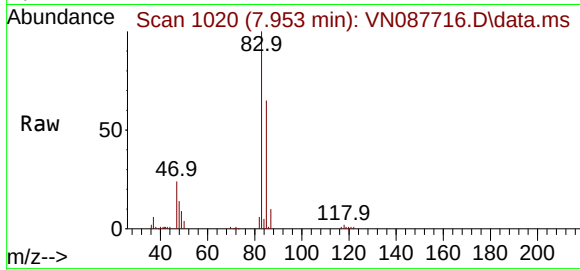
Ion Ratio Lower Upper

83 100

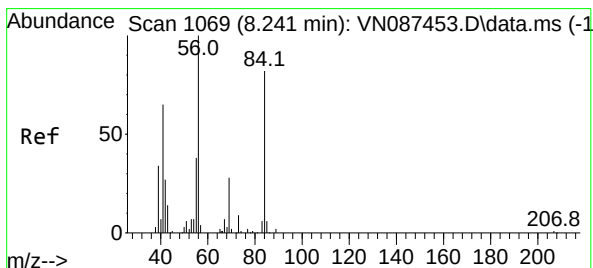
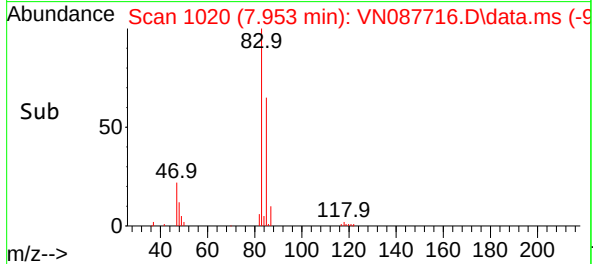
85 64.9 52.6 78.8

Manual Integrations

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Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

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#26

Cyclohexane

Concen: 18.156 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

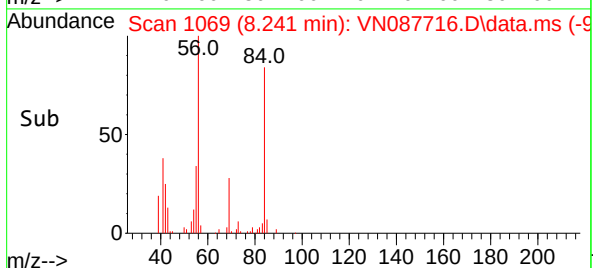
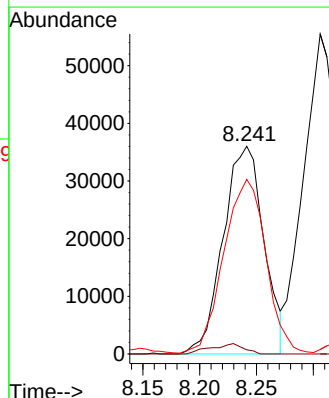
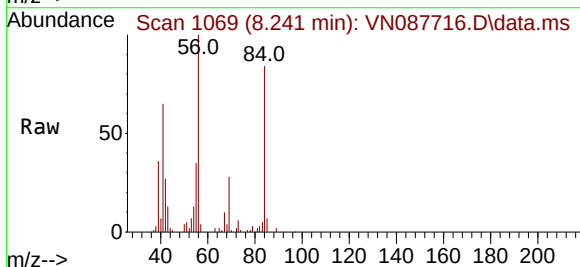
Tgt Ion: 56 Resp: 89790

Ion Ratio Lower Upper

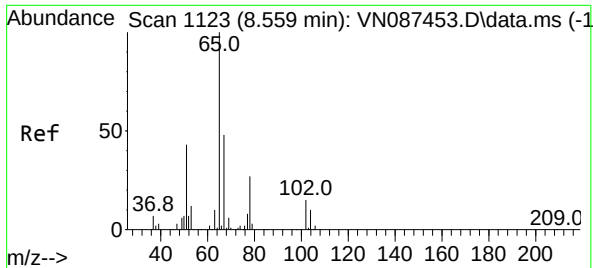
56 100

89 4.0 2.3 3.5#

84 87.4 67.0 100.4

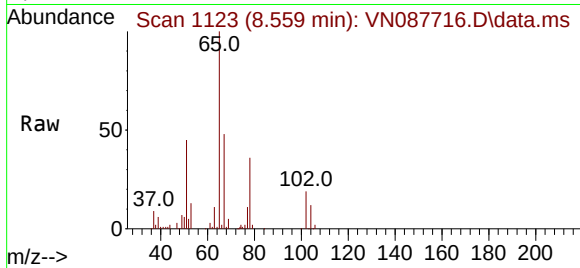






#27  
1,2-Dichloroethane-d4  
Concen: 27.798 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

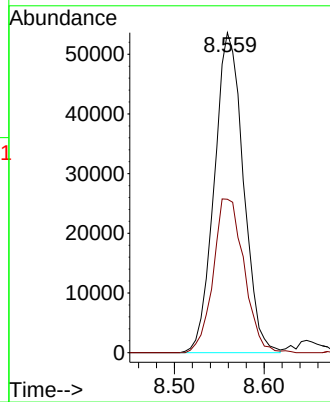
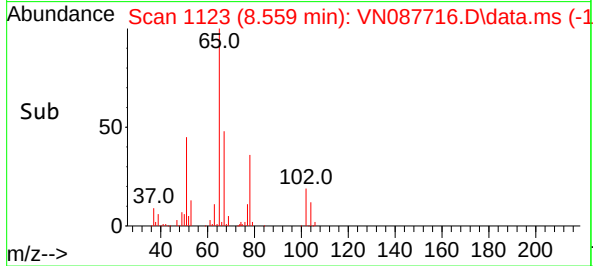
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 65 Resp: 120474  
Ion Ratio Lower Upper  
65 100  
67 50.8 40.8 61.2

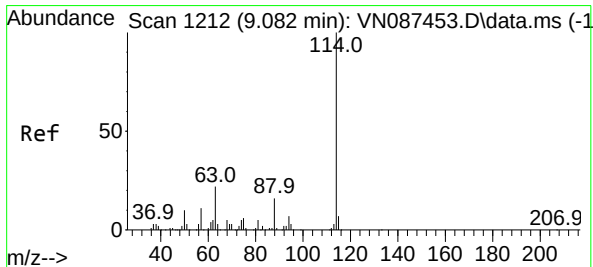
Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt



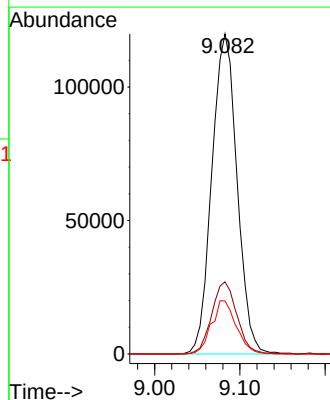
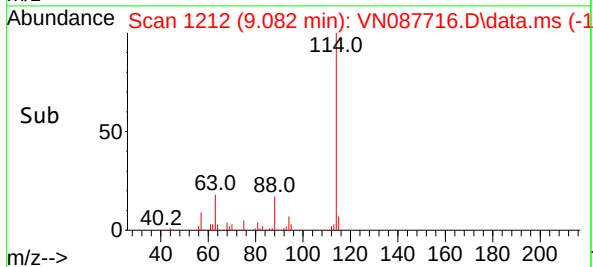
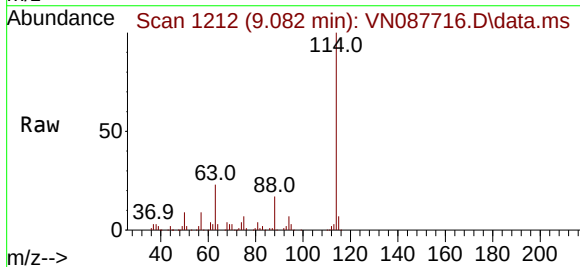
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Dadoda

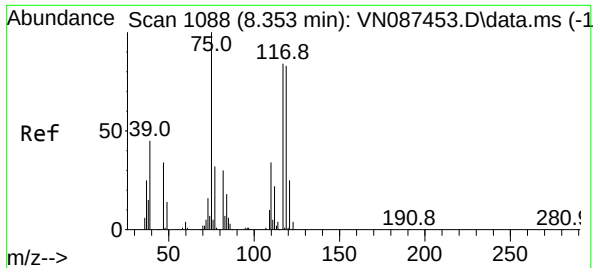
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#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:114 Resp: 246294  
Ion Ratio Lower Upper  
114 100  
63 22.4 18.9 28.3  
88 16.3 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.245 ug/l

RT: 8.347 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

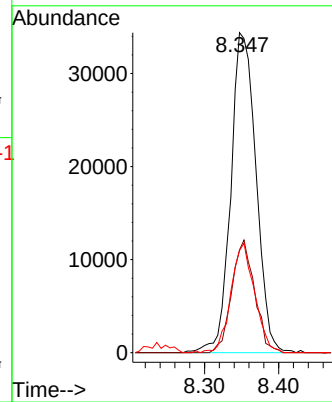
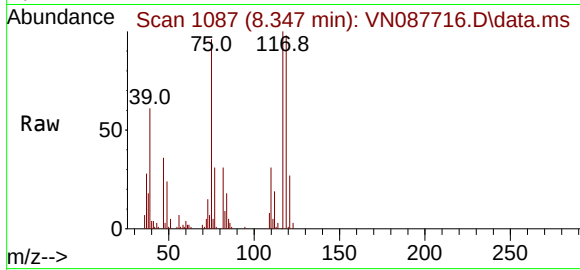
Instrument :

MSVOA\_N

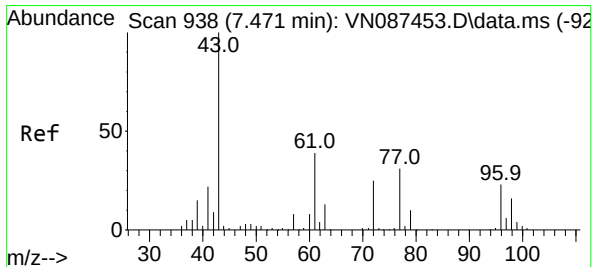
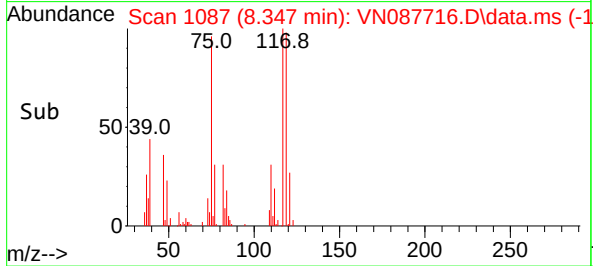
ClientSampleId :

VN0904WBSD01

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 8132  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 31.9    | 0.0 65.8    |
| 77 31.8     | 0.0 63.6    |

**Manual Integrations**  
**APPROVED**Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

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#30

2-Butanone

Concen: 98.404 ug/l

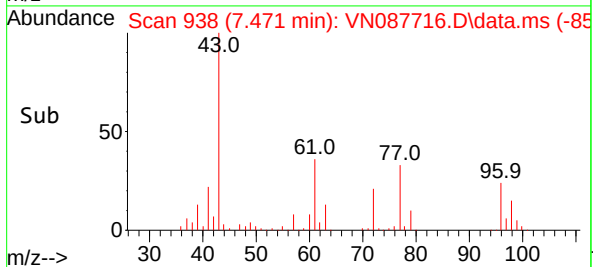
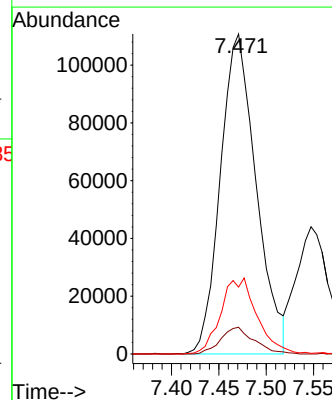
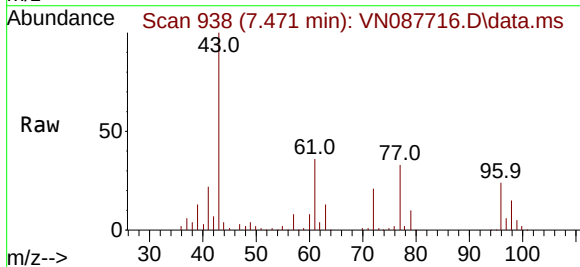
RT: 7.471 min Scan# 938

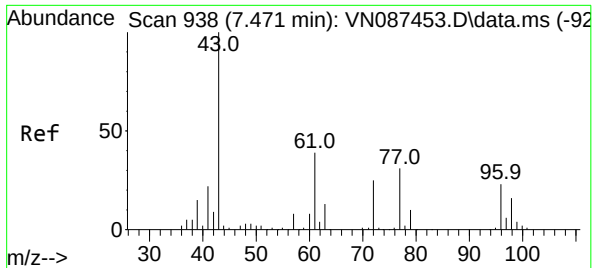
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

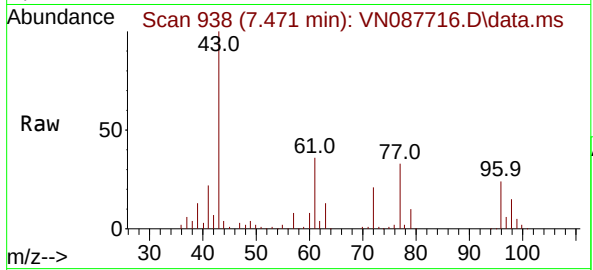
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 291380 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 7.8      | 6.6 9.8      |
| 72 13.0     | 19.7 29.5    |





#31  
2,2-Dichloropropane  
Concen: 19.946 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

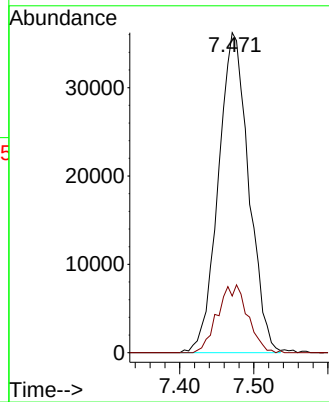
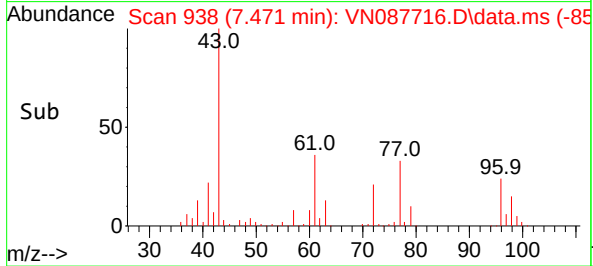
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 77 Resp: 10334  
Ion Ratio Lower Upper  
77 100  
97 11.3 16.7 25.1

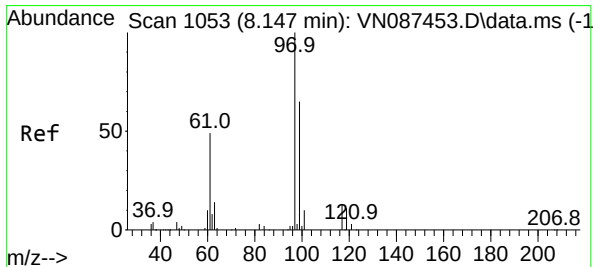
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



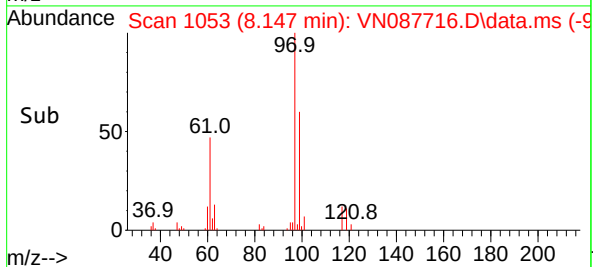
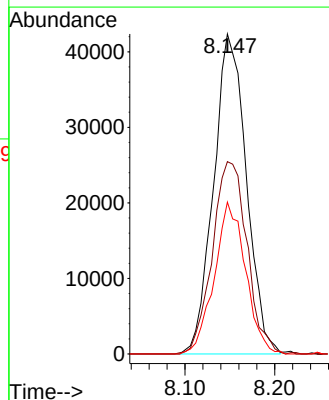
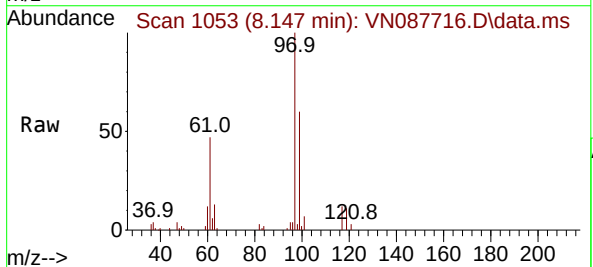
09/05/2025  
Supervised By :Mahesh  
Dadoda

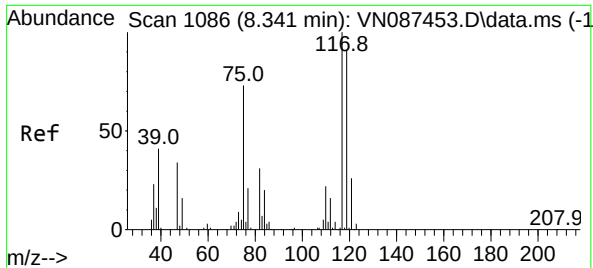
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#32  
1,1,1-Trichloroethane  
Concen: 20.969 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

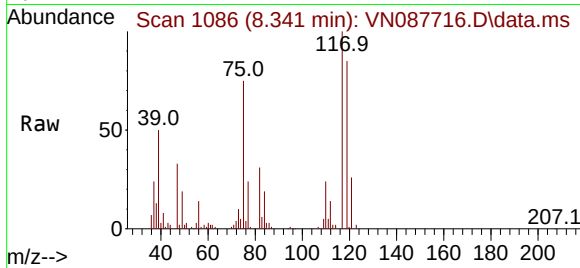
Tgt Ion: 97 Resp: 107431  
Ion Ratio Lower Upper  
97 100  
99 63.5 53.0 79.6  
61 45.2 40.6 61.0





#33  
Carbon Tetrachloride  
Concen: 20.870 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

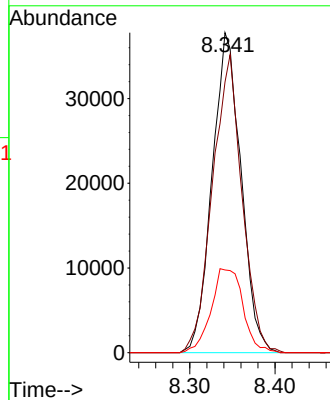
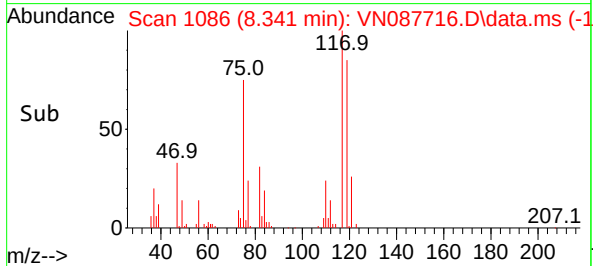
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 117 Resp: 88828  
Ion Ratio Lower Upper  
117 100  
119 84.5 73.4 110.0  
121 25.8 21.1 31.7

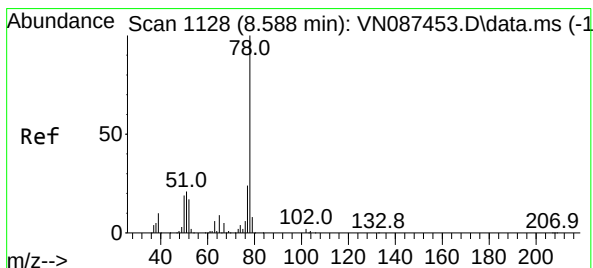
Manual Integrations  
APPROVED

Reviewed By : Semsettin  
Yesilyurt



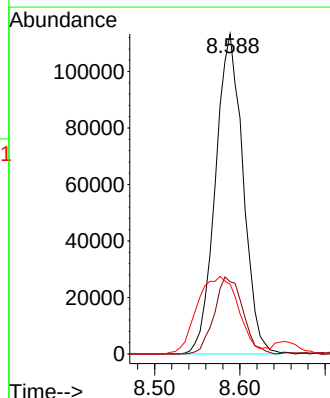
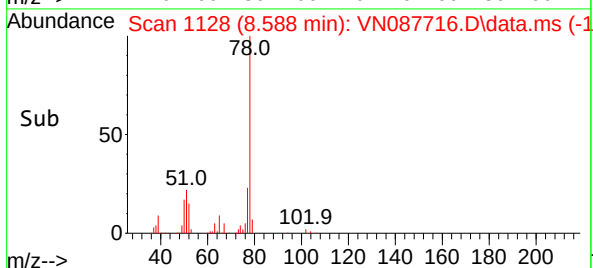
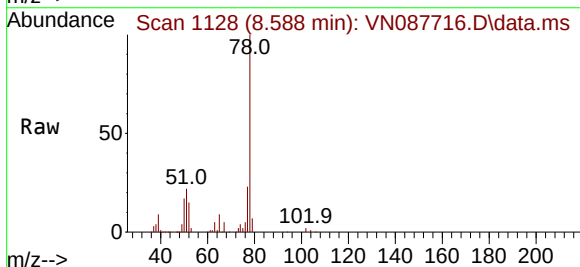
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Supervised By : Mahesh  
Dadoda

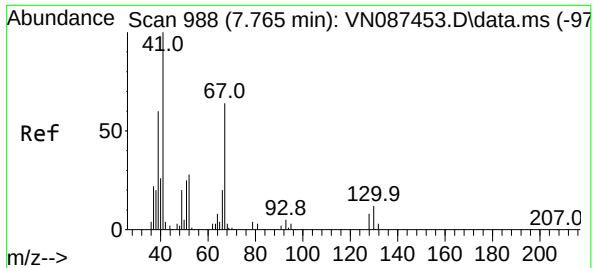
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#34  
Benzene  
Concen: 20.073 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 78 Resp: 254532  
Ion Ratio Lower Upper  
78 100  
77 22.6 19.2 28.8  
51 20.0 16.9 25.3





#35

Methacrylonitrile

Concen: 18.116 ug/l

RT: 7.759 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 41 Resp: 5788

Ion Ratio Lower Upper

41 100

39 56.4 30.1 90.5

67 67.2 32.0 96.2

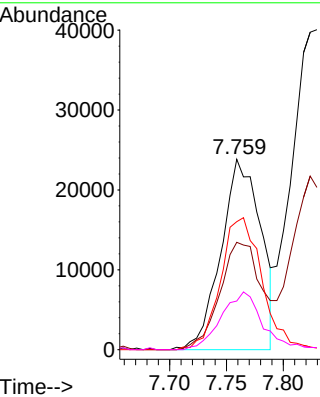
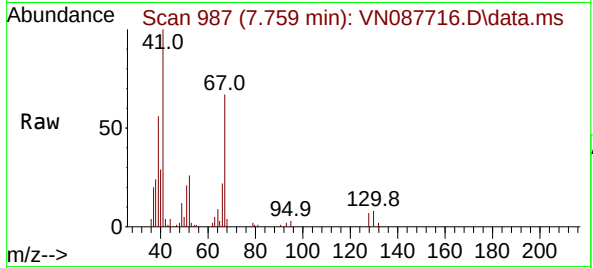
52 25.6 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

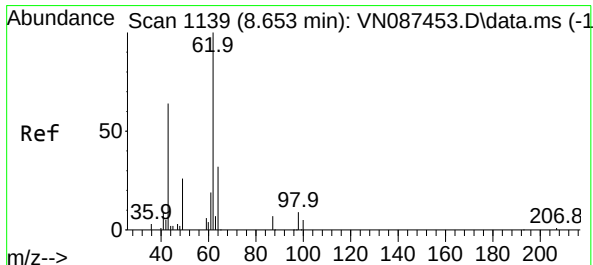
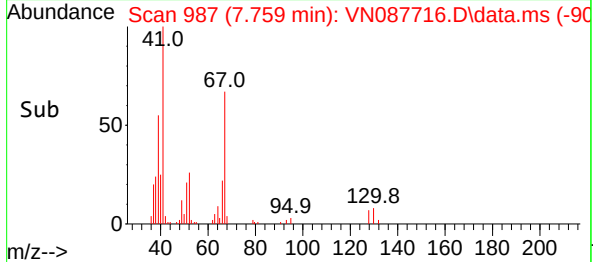


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Dadoda

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#36

1,2-Dichloroethane

Concen: 19.247 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087716.D

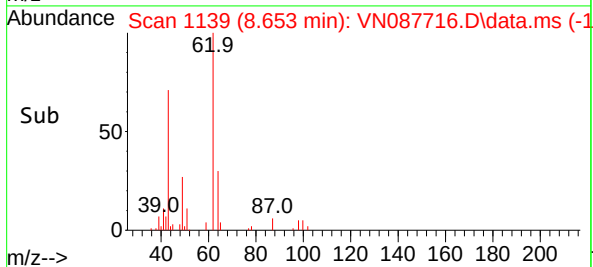
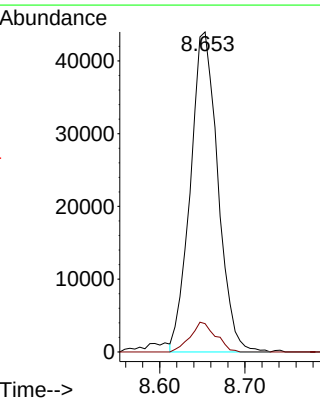
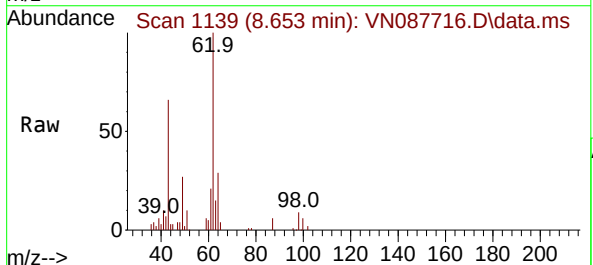
Acq: 04 Sep 2025 12:38

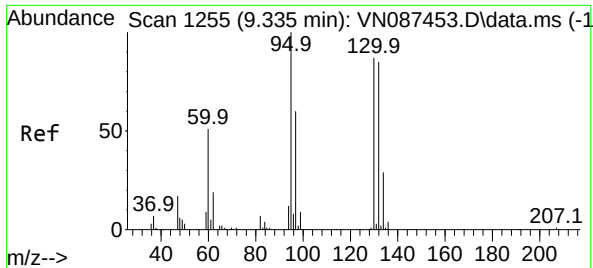
Tgt Ion: 62 Resp: 98643

Ion Ratio Lower Upper

62 100

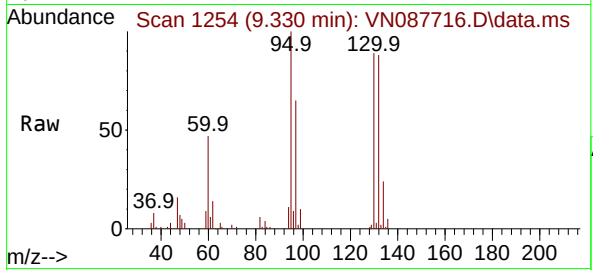
98 8.6 6.6 9.8





#37  
Trichloroethene  
Concen: 20.890 ug/l  
RT: 9.330 min Scan# 1255  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

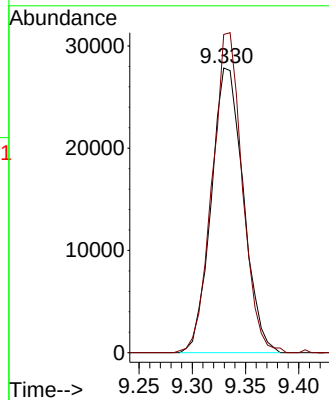
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:130 Resp: 58350  
Ion Ratio Lower Upper  
130 100  
95 111.1 91.4 137.2

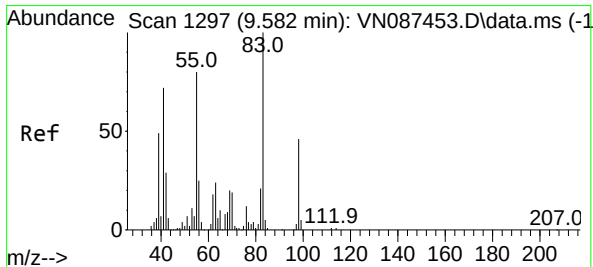
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Reviewed By :Semsettin  
Yesilyurt



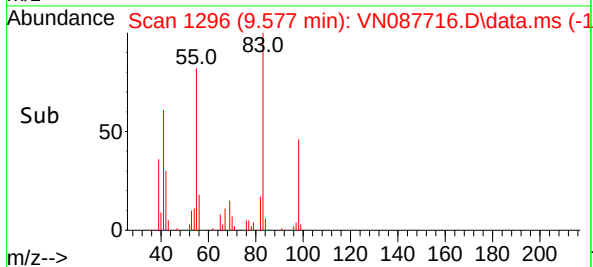
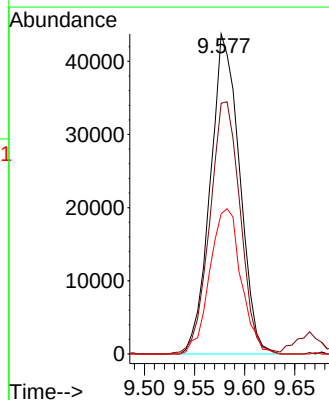
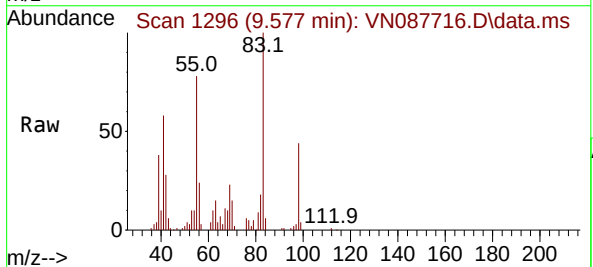
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Supervised By :Mahesh  
Dadoda

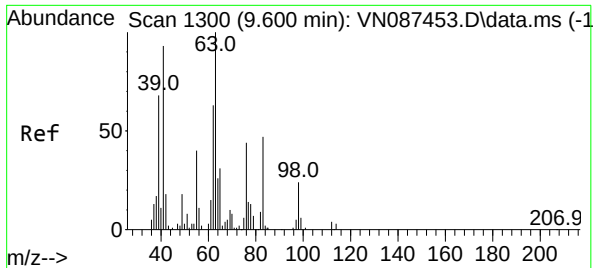
09/05/2025



#38  
Methylcyclohexane  
Concen: 19.060 ug/l  
RT: 9.577 min Scan# 1296  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 83 Resp: 88823  
Ion Ratio Lower Upper  
83 100  
55 81.9 41.2 123.6  
98 48.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.119 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 63 Resp: 6866

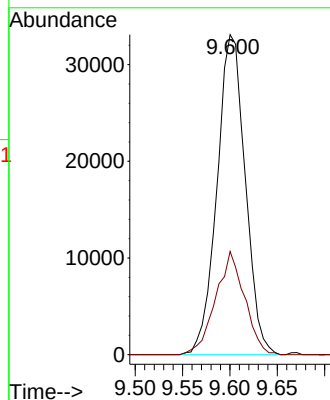
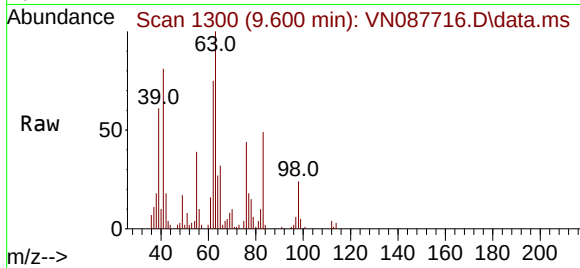
Ion Ratio Lower Upper

63 100

65 32.3 24.6 36.8

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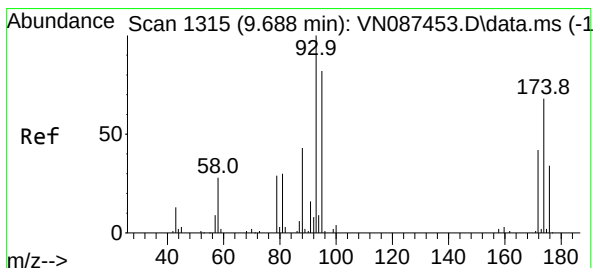
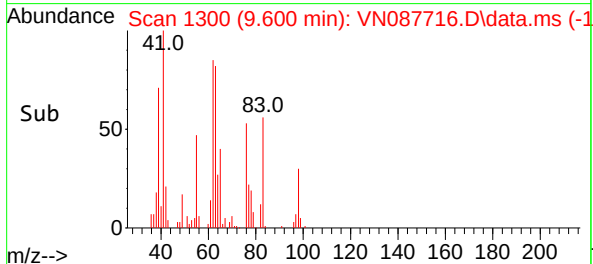
APPROVED

Reviewed By :Semsettin  
Yesilyurt

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Supervised By :Mahesh  
Dadoda

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#40

Dibromomethane

Concen: 20.509 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

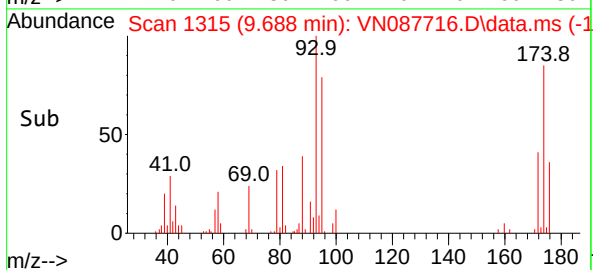
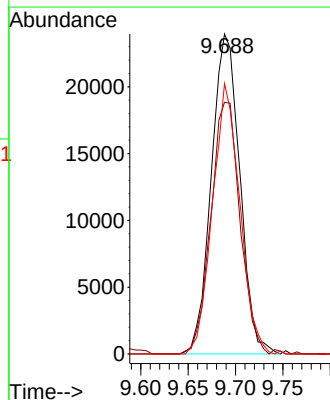
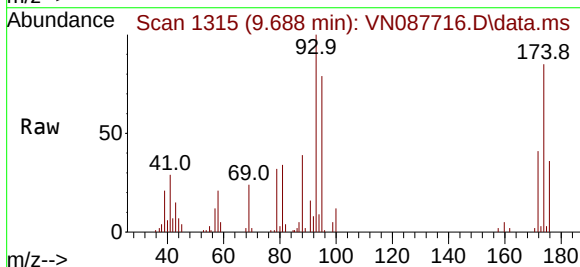
Tgt Ion: 93 Resp: 50029

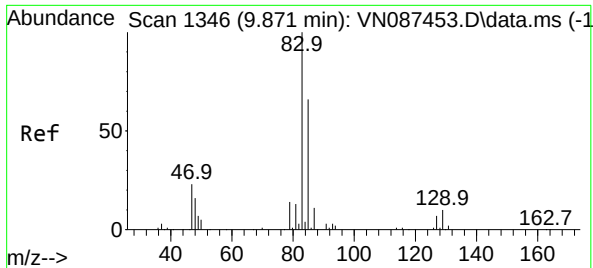
Ion Ratio Lower Upper

93 100

95 80.5 0.0 161.6

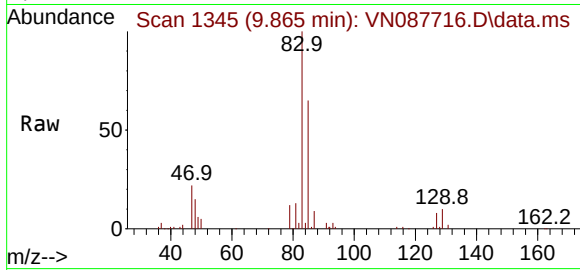
174 81.0 0.0 151.4





#41  
Bromodichloromethane  
Concen: 20.115 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

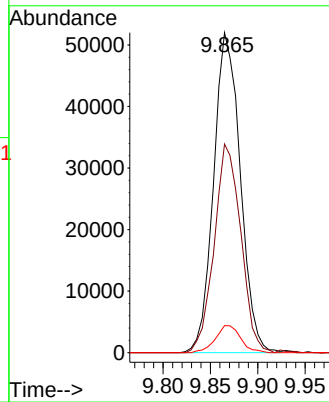
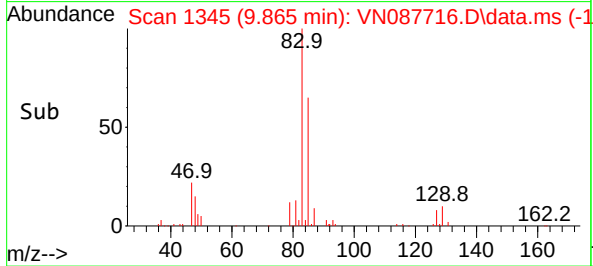
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 83 Resp: 101960  
Ion Ratio Lower Upper  
83 100  
85 65.2 52.9 79.3  
127 8.4 5.8 8.6

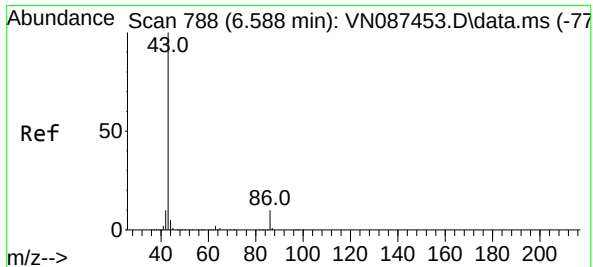
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Yesilyurt



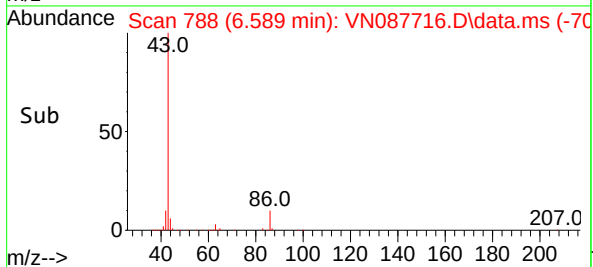
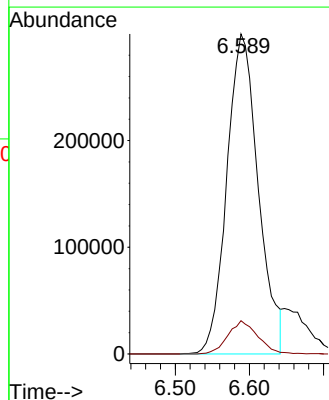
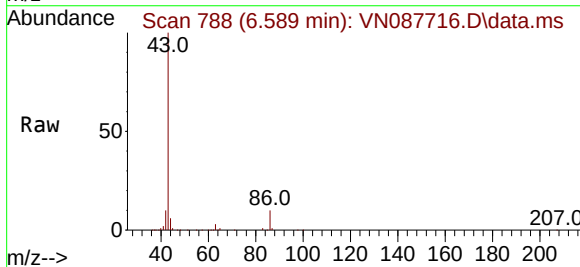
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Dadoda

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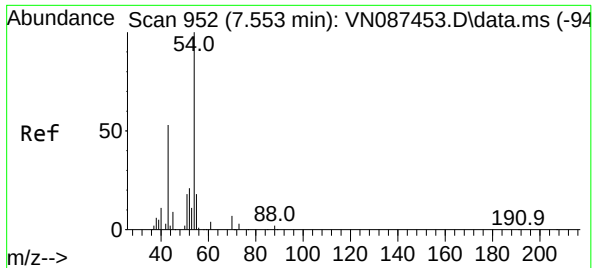


#42  
Vinyl Acetate  
Concen: 90.770 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 885124  
Ion Ratio Lower Upper  
43 100  
86 9.9 7.3 10.9







#43

Ethyl Acetate

Concen: 19.441 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 43 Resp: 11121

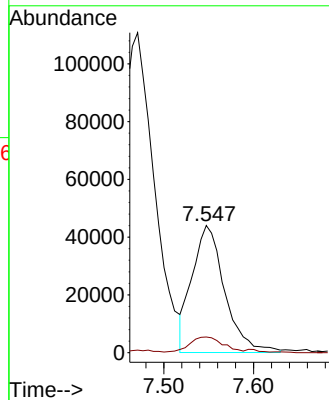
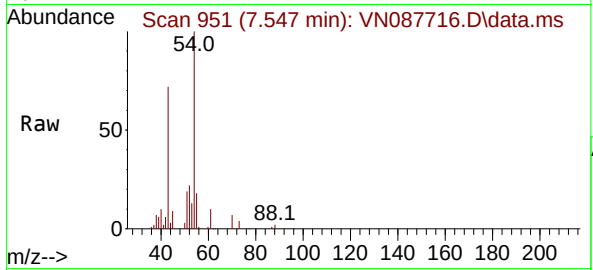
Ion Ratio Lower Upper

43 100

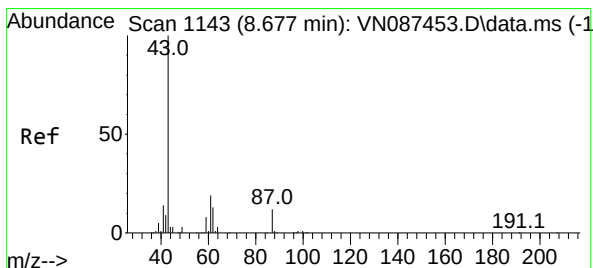
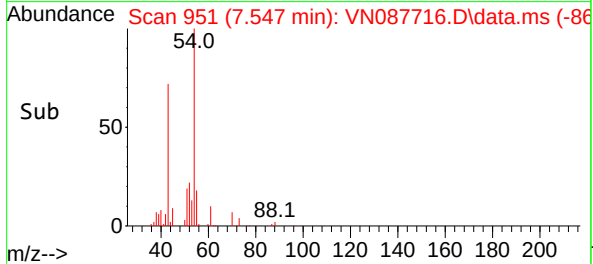
45 12.8 11.1 16.7

Manual Integrations

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Reviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

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#44

Isopropyl Acetate

Concen: 18.922 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087716.D

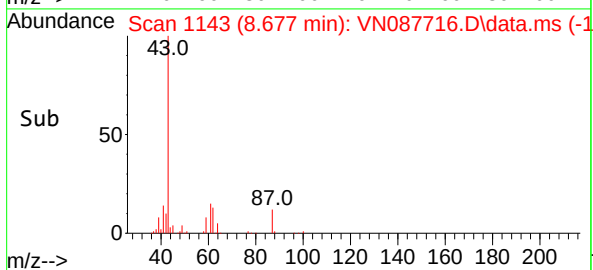
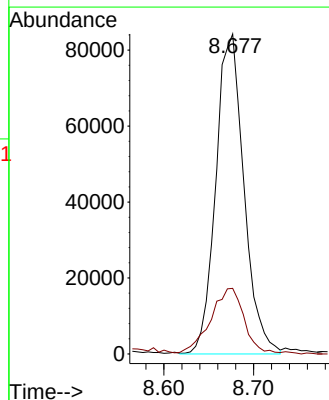
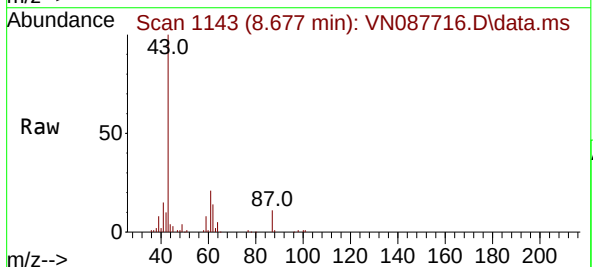
Acq: 04 Sep 2025 12:38

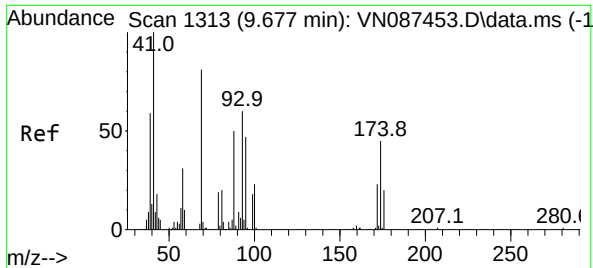
Tgt Ion: 43 Resp: 183479

Ion Ratio Lower Upper

43 100

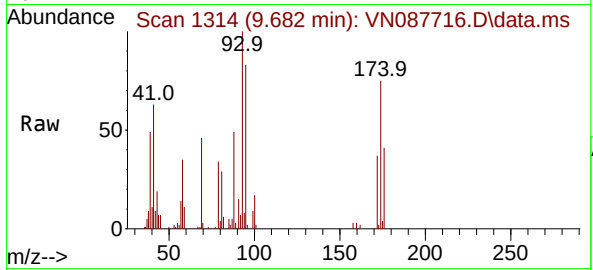
61 24.6 18.6 28.0





#45  
1,4-Dioxane  
Concen: 385.110 ug/l  
RT: 9.682 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

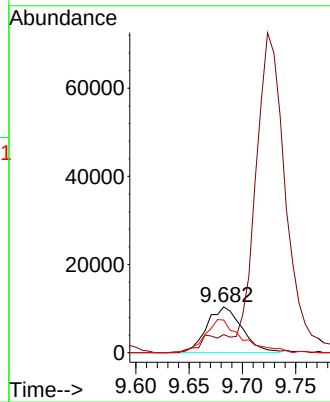
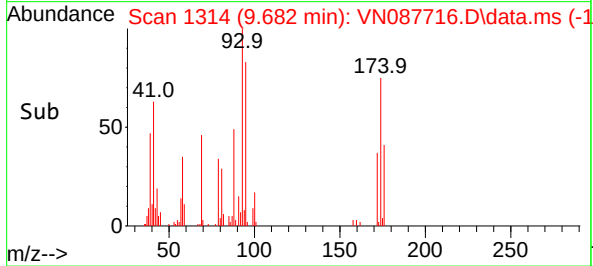
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 88 Resp: 23800  
Ion Ratio Lower Upper  
88 100  
43 11.7 24.1 36.1  
58 75.2 57.2 85.8

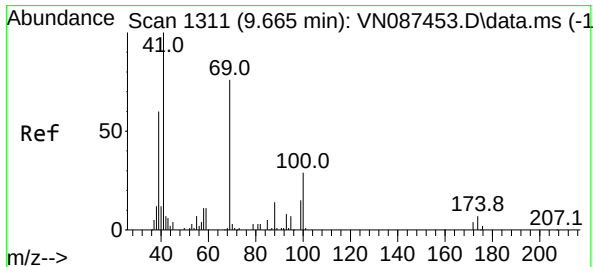
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Reviewed By :Semsettin  
Yesilyurt

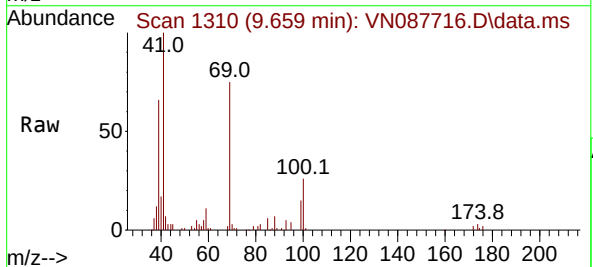


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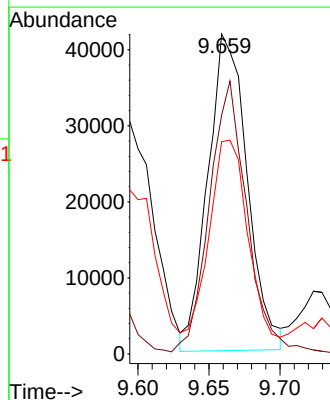
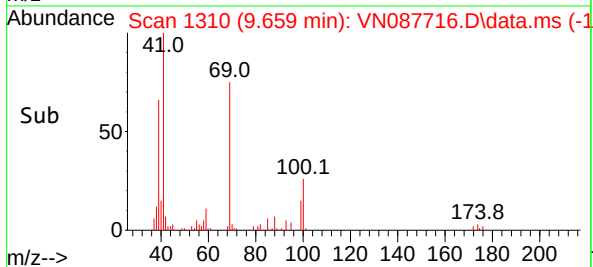
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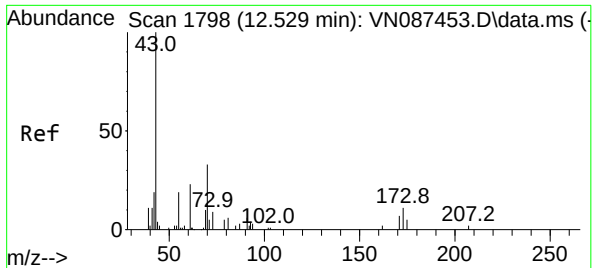


#46  
Methyl methacrylate  
Concen: 17.548 ug/l  
RT: 9.659 min Scan# 1310  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



Tgt Ion: 41 Resp: 80320  
Ion Ratio Lower Upper  
41 100  
69 76.1 37.1 111.5  
39 65.3 30.7 92.1





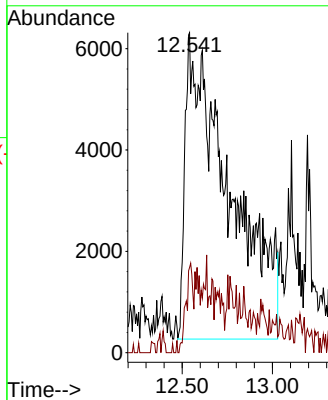
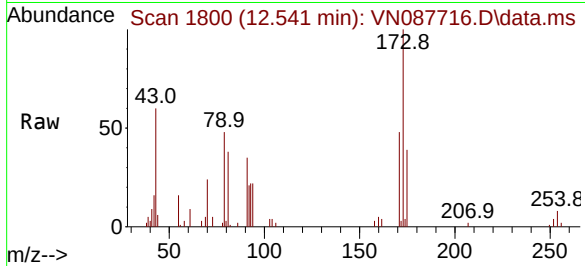
#47  
n-amyl acetate  
Concen: 18.989 ug/l m  
RT: 12.541 min Scan# 1798  
Delta R.T. 0.012 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 43 Resp: 101718  
Ion Ratio Lower Upper  
43 100  
55 1.9 4.6 6.8

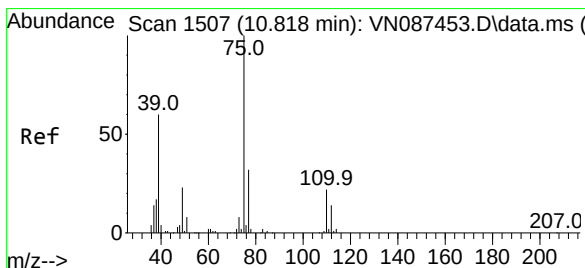
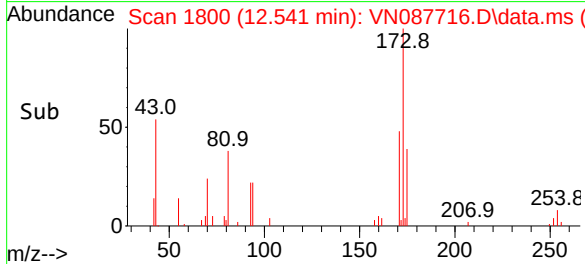
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Reviewed By :Semsettin  
Yesilyurt



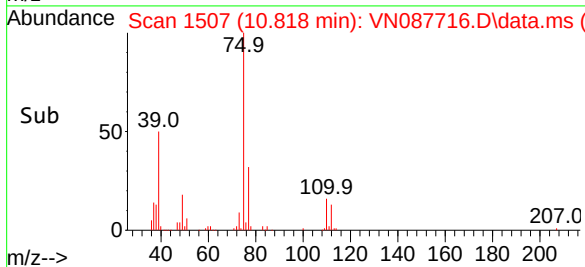
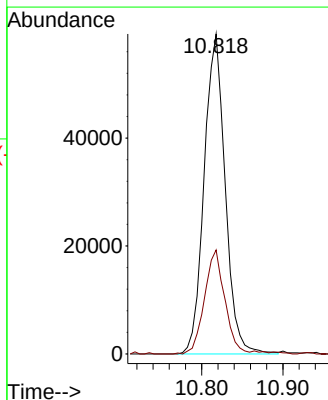
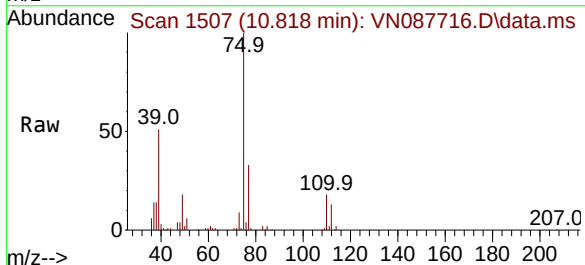
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Supervised By :Mahesh  
Dadoda

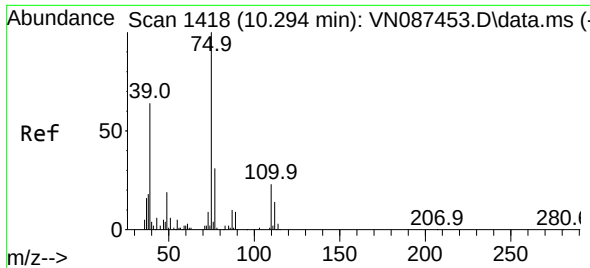
09/05/2025



#48  
t-1,3-Dichloropropene  
Concen: 19.344 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

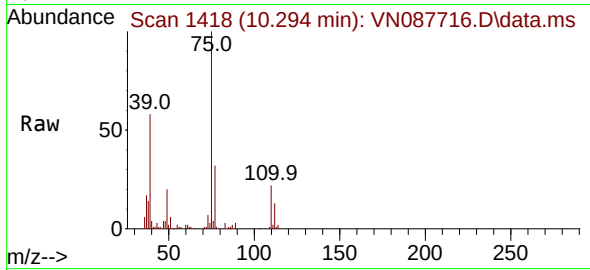
Tgt Ion: 75 Resp: 106677  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.3 37.9





#49  
cis-1,3-Dichloropropene  
Concen: 19.503 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

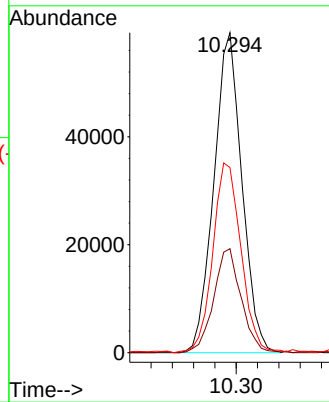
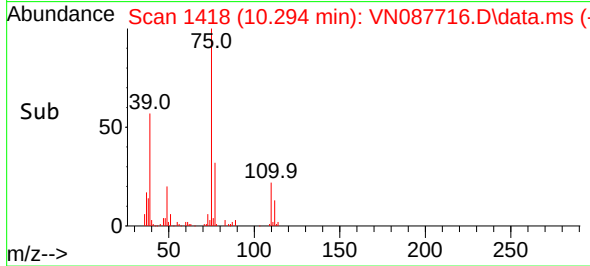
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 75 Resp: 108230  
Ion Ratio Lower Upper  
75 100  
77 32.5 24.6 36.8  
39 57.5 51.5 77.3

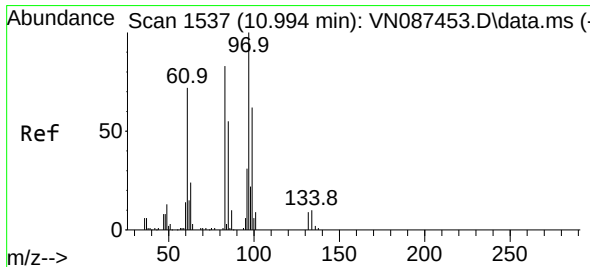
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



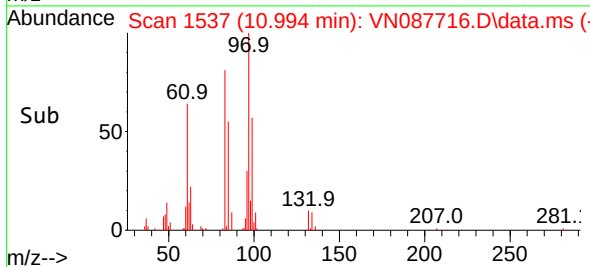
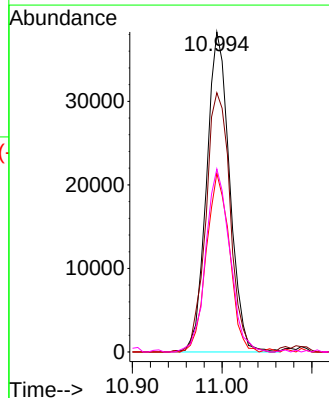
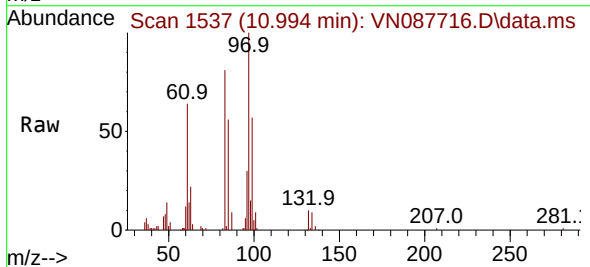
09/05/2025  
Supervised By :Mahesh  
Dadoda

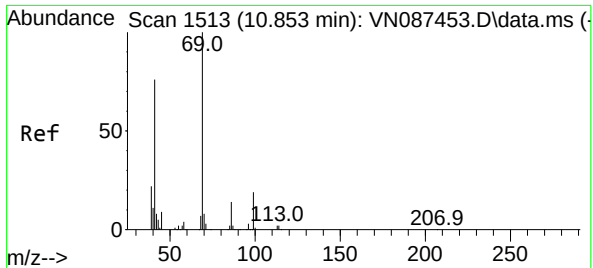
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#50  
1,1,2-Trichloroethane  
Concen: 22.146 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

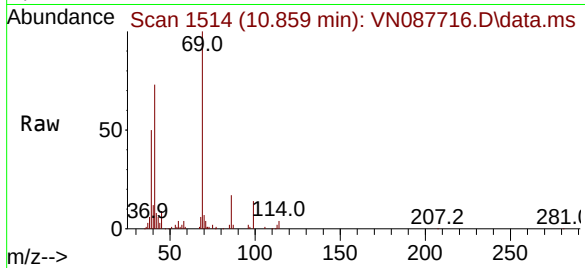
Tgt Ion: 97 Resp: 68256  
Ion Ratio Lower Upper  
97 100  
83 81.3 66.2 99.2  
85 56.0 43.9 65.9  
99 57.0 50.0 75.0





#51  
Ethyl methacrylate  
Concen: 18.772 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

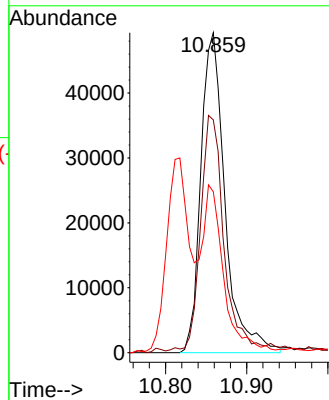
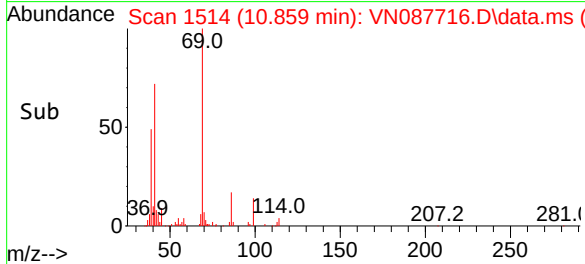
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 69 Resp: 10189  
Ion Ratio Lower Upper  
69 100  
41 71.6 38.0 114.1  
39 49.3 23.2 69.5

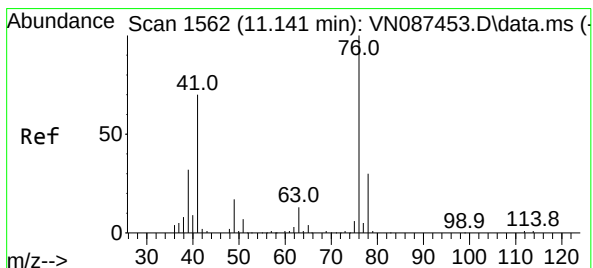
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



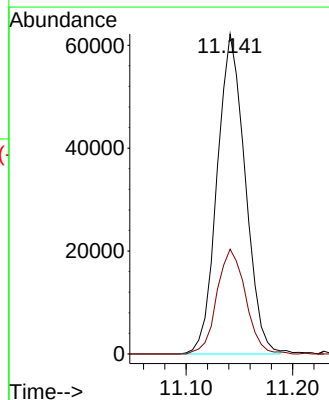
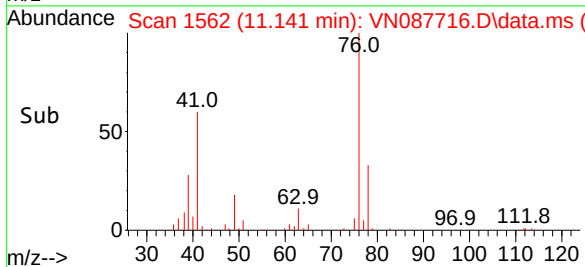
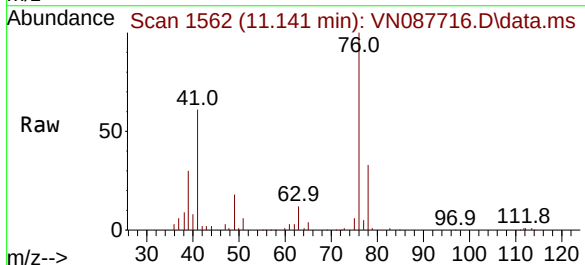
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Supervised By :Mahesh  
Dadoda

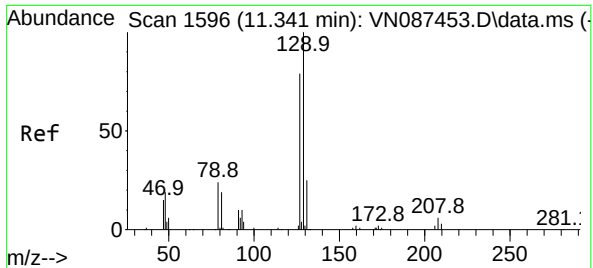
09/05/2025



#52  
1,3-Dichloropropane  
Concen: 20.465 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

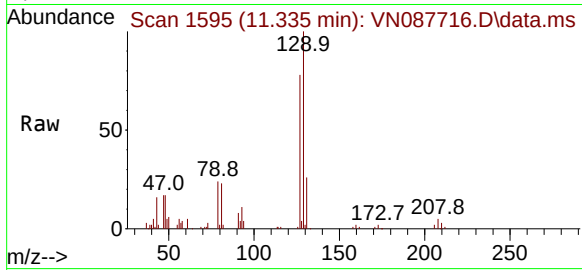
Tgt Ion: 76 Resp: 113637  
Ion Ratio Lower Upper  
76 100  
78 33.4 0.0 63.0





#53  
Dibromochloromethane  
Concen: 21.125 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

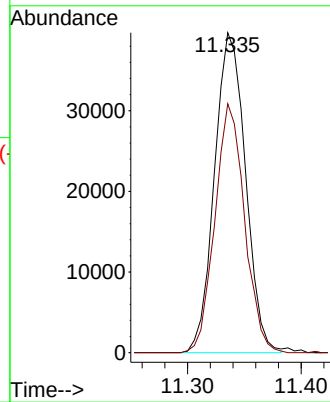
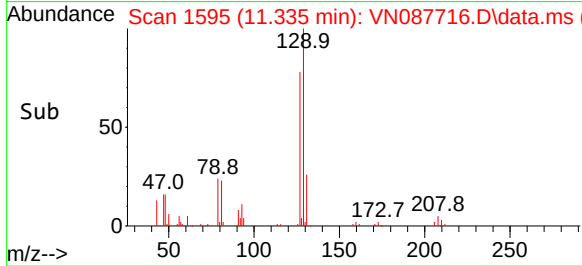
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:129 Resp: 7519  
Ion Ratio Lower Upper  
129 100  
127 74.3 39.1 117.3

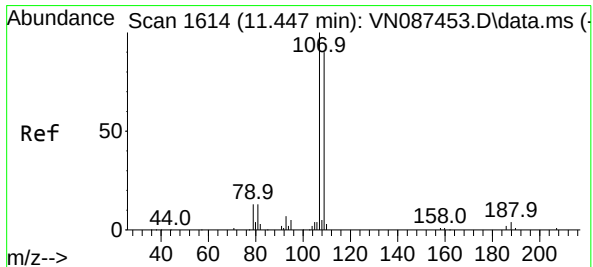
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

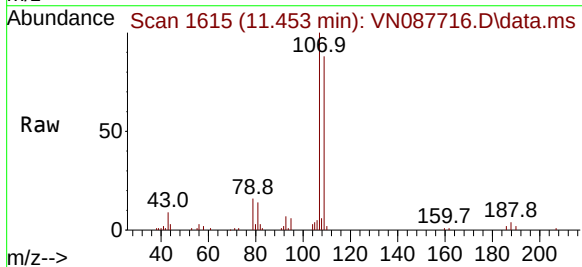


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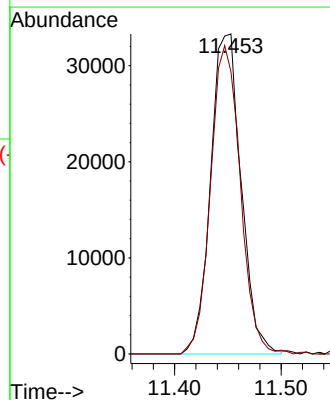
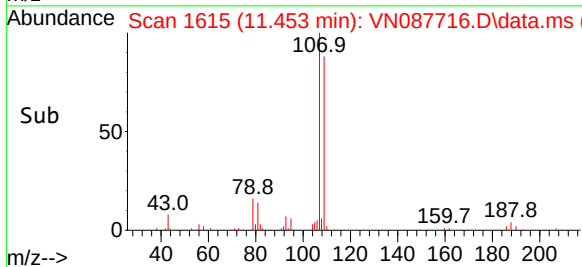
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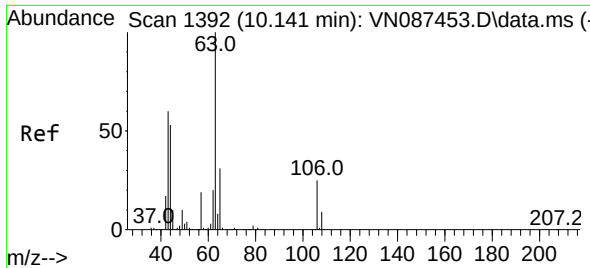


#54  
1,2-Dibromoethane  
Concen: 20.230 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



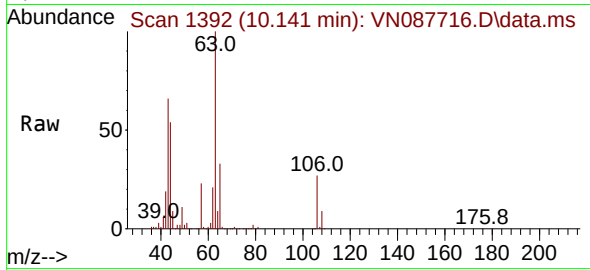
Tgt Ion:107 Resp: 66187  
Ion Ratio Lower Upper  
107 100  
109 93.8 74.2 111.4





#55  
2-Chloroethyl vinyl ether  
Concen: 103.123 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

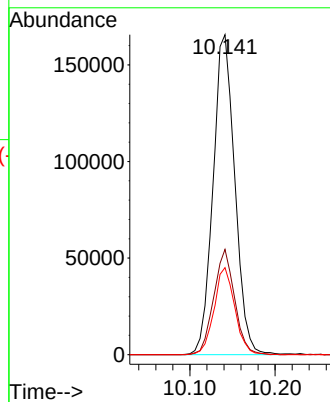
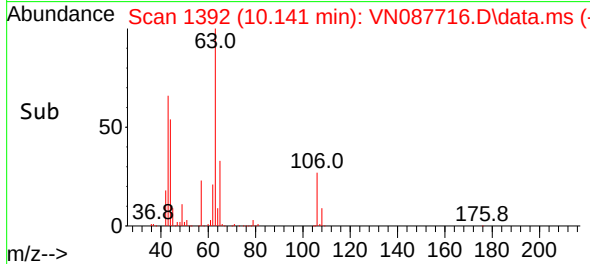
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 63 Resp: 294669  
Ion Ratio Lower Upper  
63 100  
65 31.6 25.7 38.5  
106 26.0 20.7 31.1

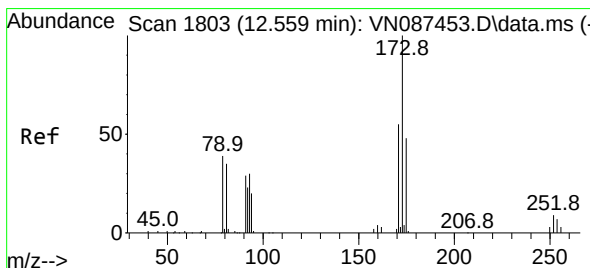
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



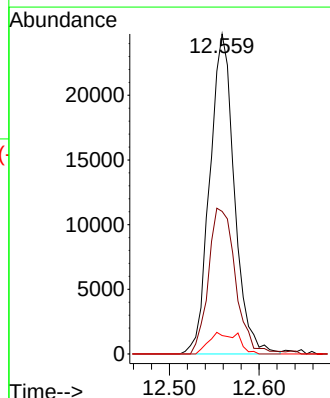
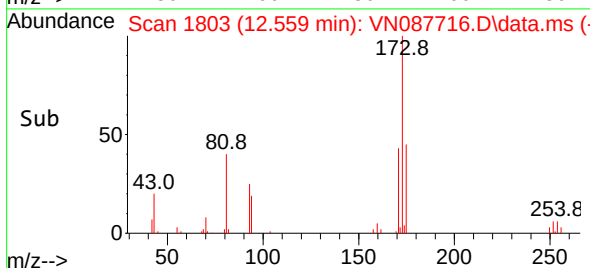
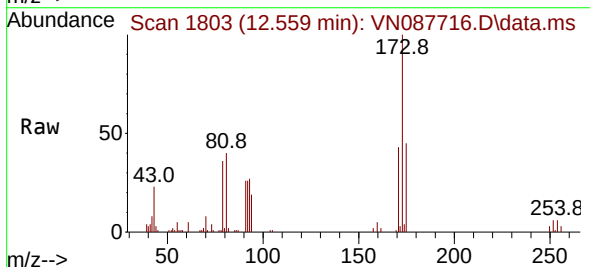
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Supervised By :Mahesh  
Dadoda

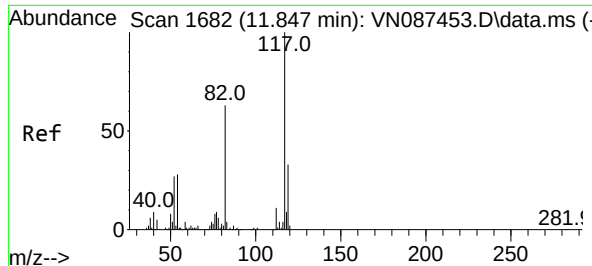
09/05/2025



#56  
Bromoform  
Concen: 19.985 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:173 Resp: 47049  
Ion Ratio Lower Upper  
173 100  
175 49.2 38.8 58.2  
254 6.0 3.9 5.9#





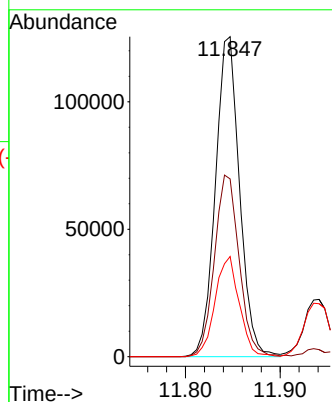
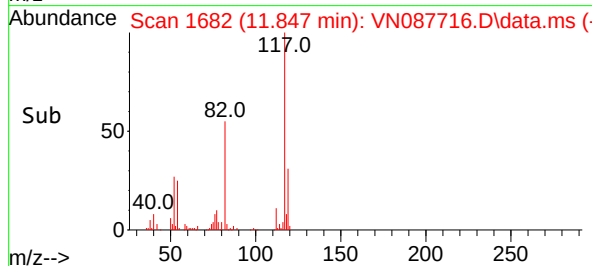
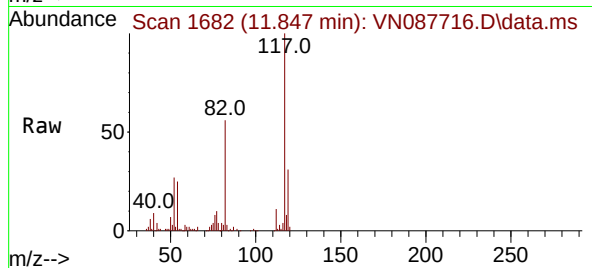
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 117 Resp: 222512  
Ion Ratio Lower Upper  
117 100  
82 58.3 49.2 73.8  
119 31.4 25.7 38.5

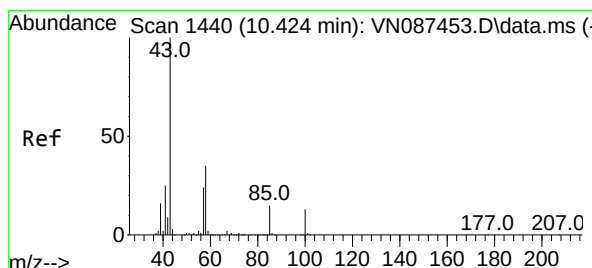
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



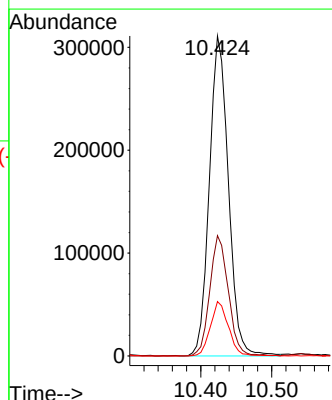
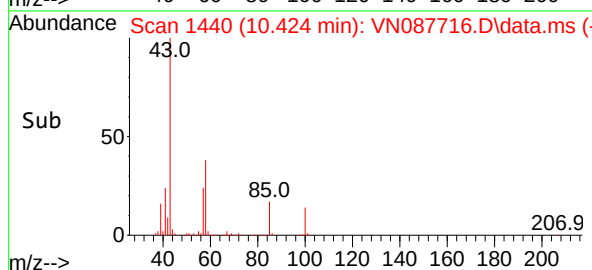
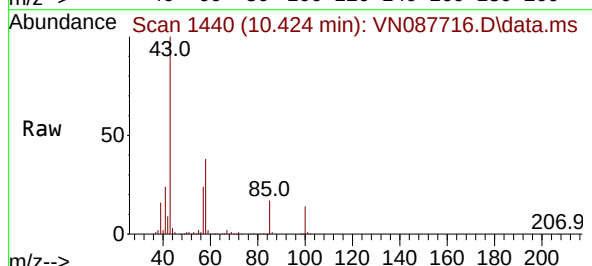
09/05/2025  
Supervised By :Mahesh  
Dadoda

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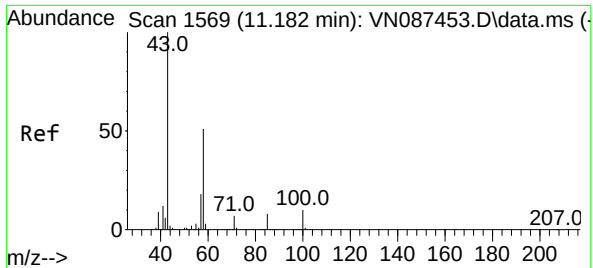


#58  
4-Methyl-2-Pentanone  
Concen: 101.308 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 579891  
Ion Ratio Lower Upper  
43 100  
58 36.6 29.0 43.6  
85 16.1 12.7 19.1

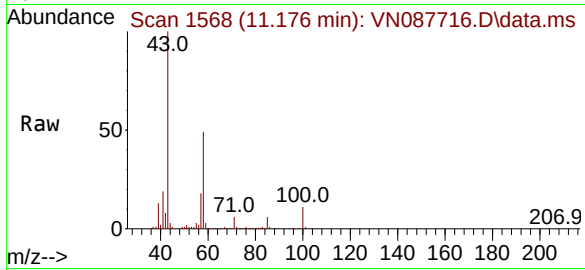






#59  
2-Hexanone  
Concen: 92.671 ug/l  
RT: 11.176 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

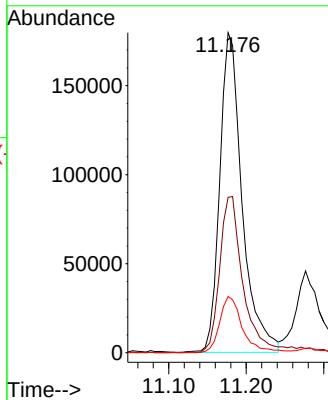
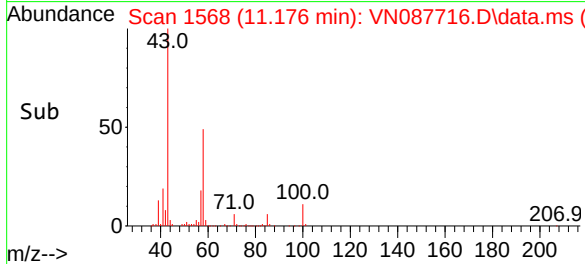
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 43 Resp: 360418  
Ion Ratio Lower Upper  
43 100  
58 50.2 41.0 61.6  
57 17.8 14.6 21.8

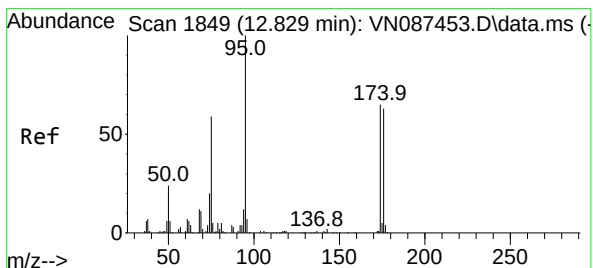
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



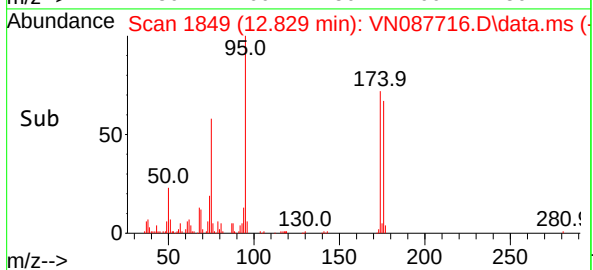
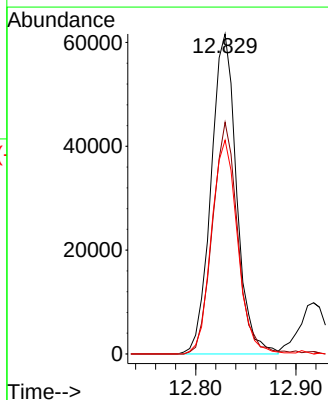
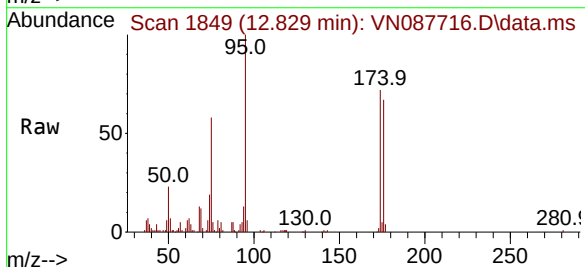
09/05/2025  
Supervised By :Mahesh  
Dadoda

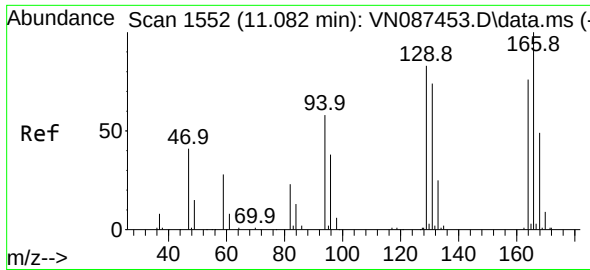
09/05/2025



#60  
4-Bromofluorobenzene  
Concen: 28.468 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

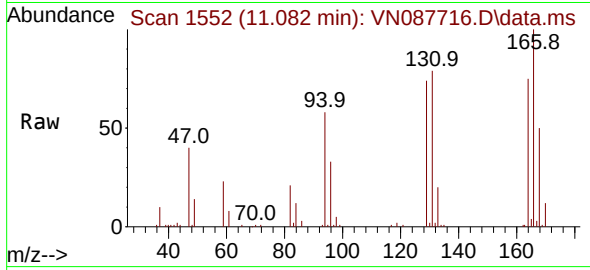
Tgt Ion: 95 Resp: 109013  
Ion Ratio Lower Upper  
95 100  
174 71.4 52.3 78.5  
176 68.4 49.8 74.8





#61  
Tetrachloroethene  
Concen: 21.855 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

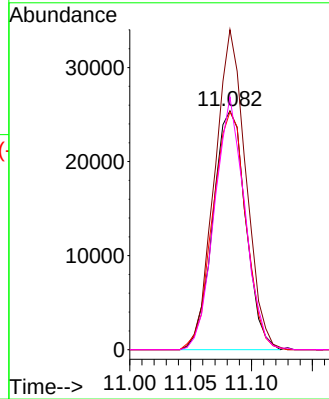
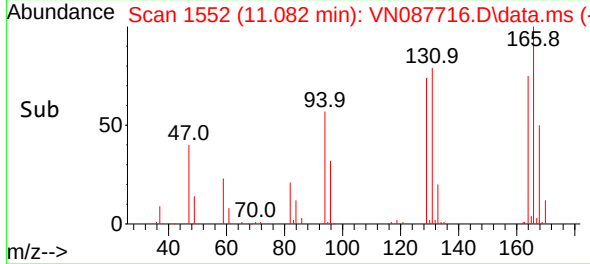
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:164 Resp: 47378  
Ion Ratio Lower Upper  
164 100  
166 133.9 105.4 158.0  
129 99.6 87.7 131.5  
131 105.7 77.7 116.5

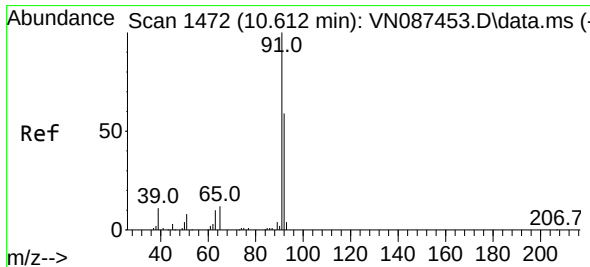
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

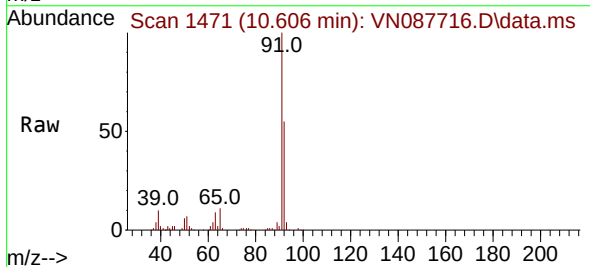


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Supervised By :Mahesh  
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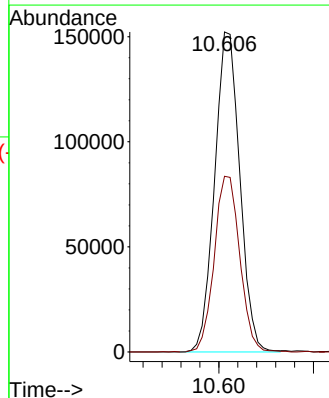
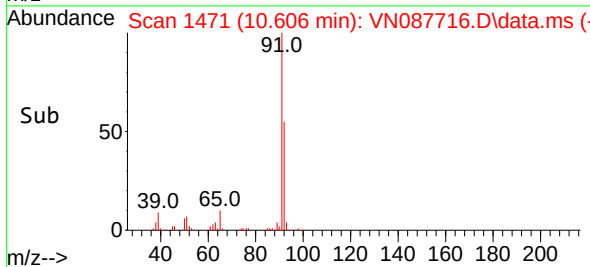
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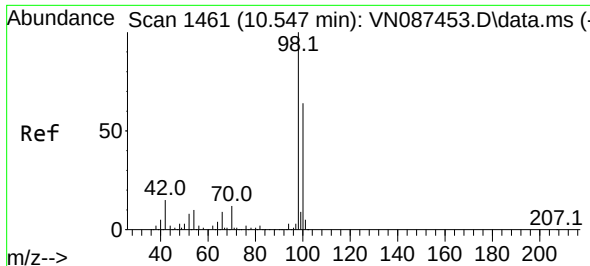


#62  
Toluene  
Concen: 20.473 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



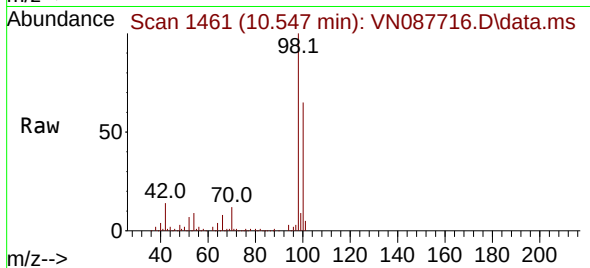
Tgt Ion: 91 Resp: 281160  
Ion Ratio Lower Upper  
91 100  
92 55.7 45.8 68.6





#63  
Toluene-d8  
Concen: 29.685 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

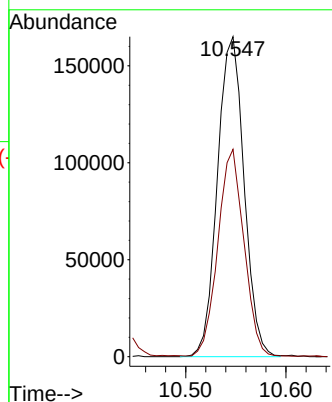
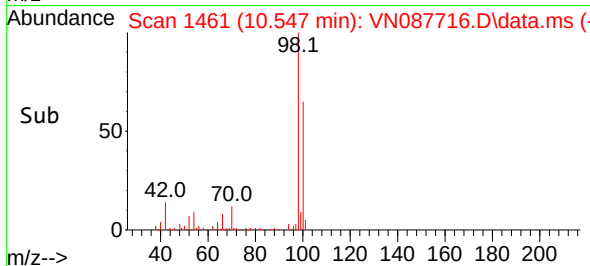
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 98 Resp: 303920  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.5 75.7

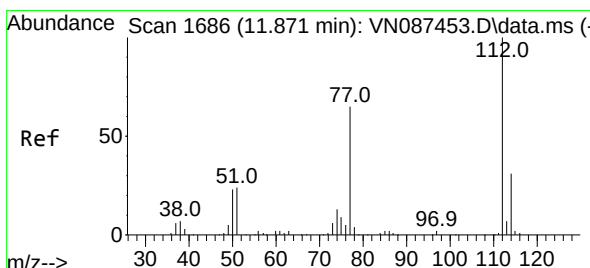
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



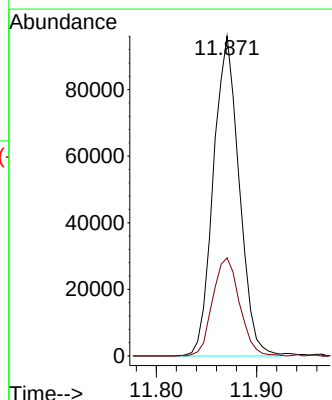
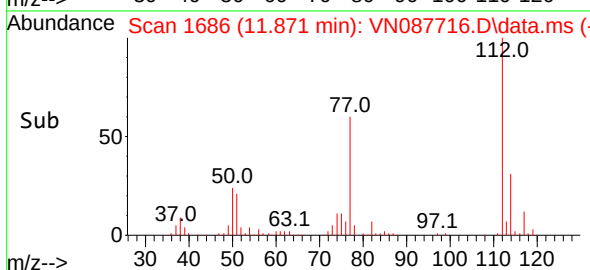
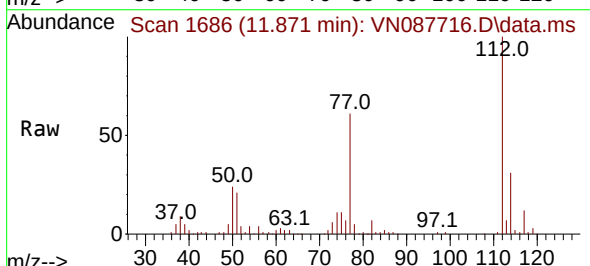
09/05/2025  
Supervised By :Mahesh  
Dadoda

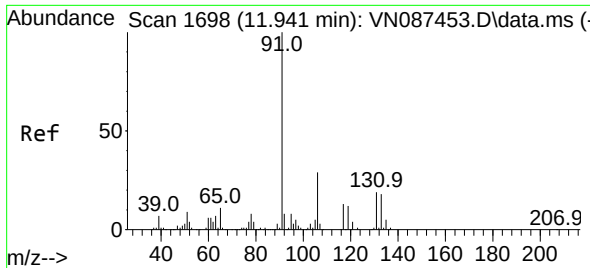
09/05/2025



#64  
Chlorobenzene  
Concen: 20.374 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

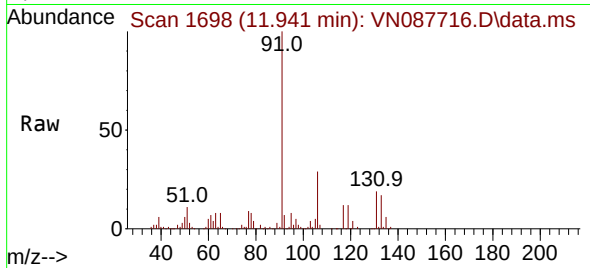
Tgt Ion:112 Resp: 171933  
Ion Ratio Lower Upper  
112 100  
114 30.4 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.427 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

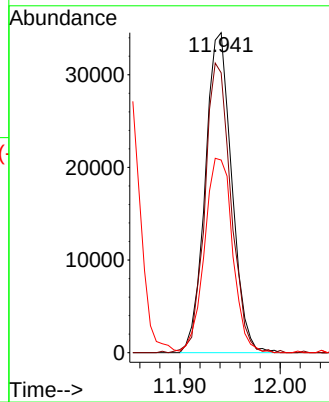
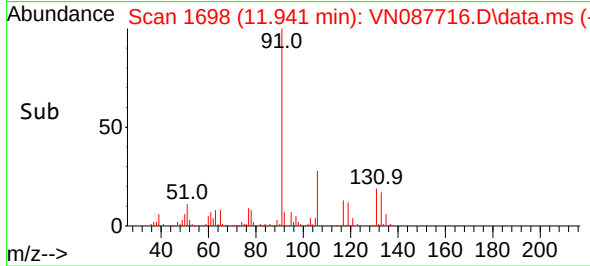
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:131 Resp: 6357  
Ion Ratio Lower Upper  
131 100  
133 88.6 0.0 189.8  
119 64.4 0.0 133.2

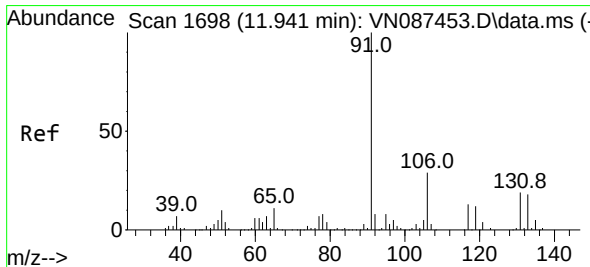
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



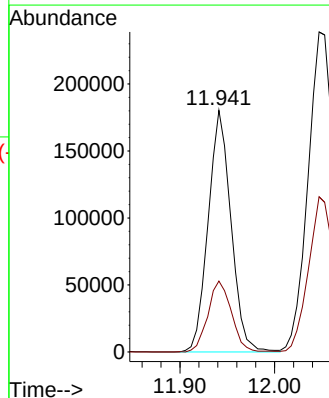
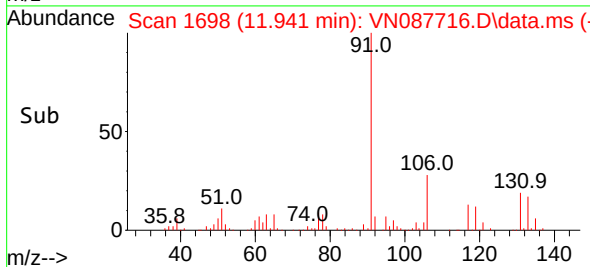
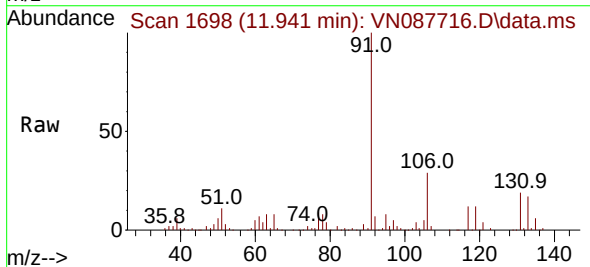
09/05/2025  
Supervised By :Mahesh  
Dadoda

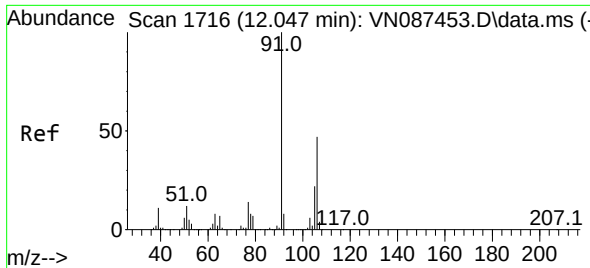
09/05/2025



#66  
Ethyl Benzene  
Concen: 19.767 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

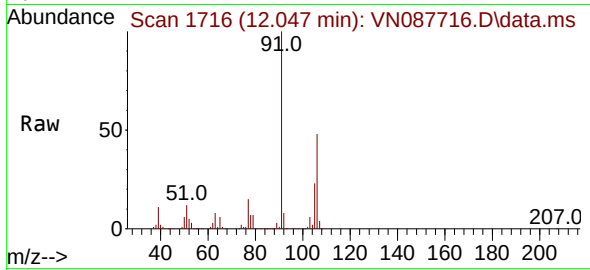
Tgt Ion: 91 Resp: 302575  
Ion Ratio Lower Upper  
91 100  
106 29.2 22.9 34.3





#67  
m/p-Xylenes  
Concen: 39.370 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

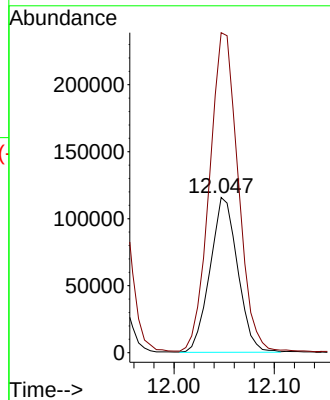
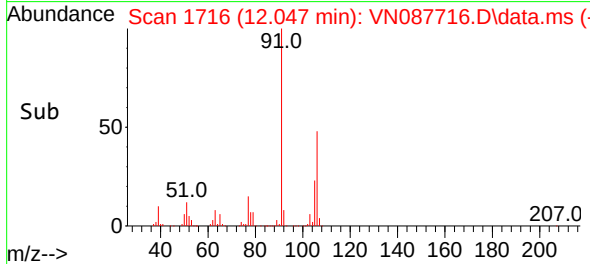
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:106 Resp: 221209  
Ion Ratio Lower Upper  
106 100  
91 216.5 174.2 261.2

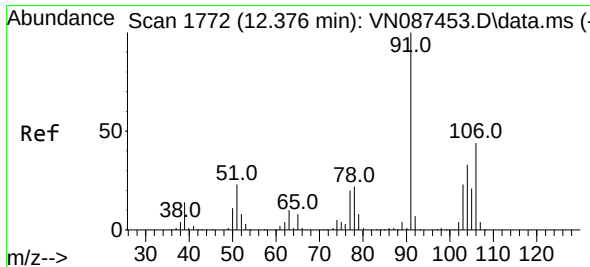
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



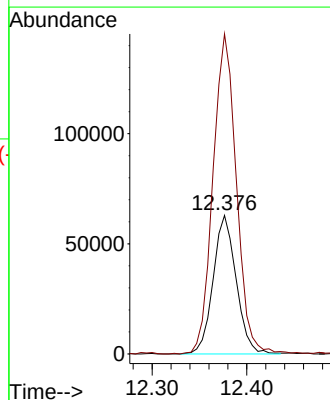
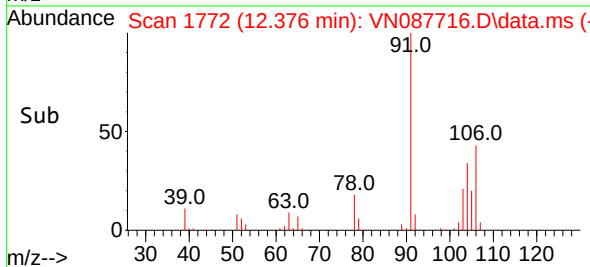
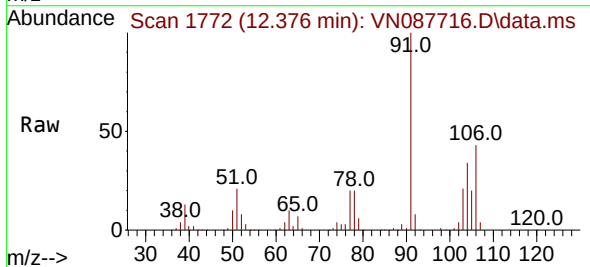
09/05/2025  
Supervised By :Mahesh  
Dadoda

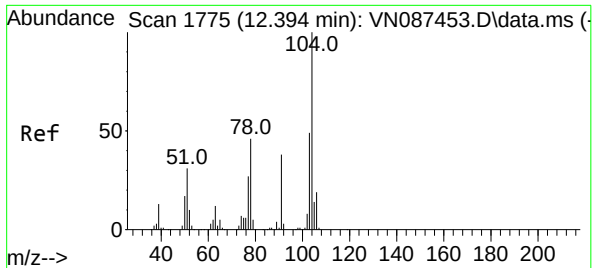
09/05/2025



#68  
o-Xylene  
Concen: 19.265 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

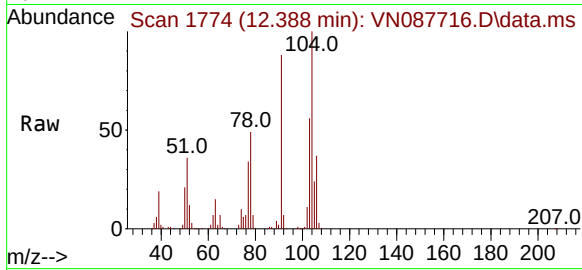
Tgt Ion:106 Resp: 106491  
Ion Ratio Lower Upper  
106 100  
91 233.8 114.5 343.5





#69  
Styrene  
Concen: 19.326 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

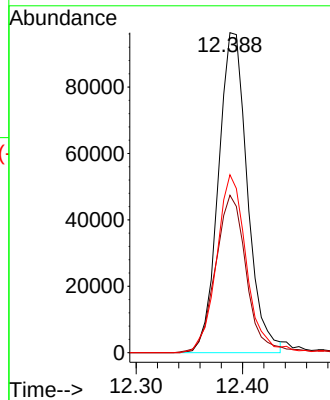
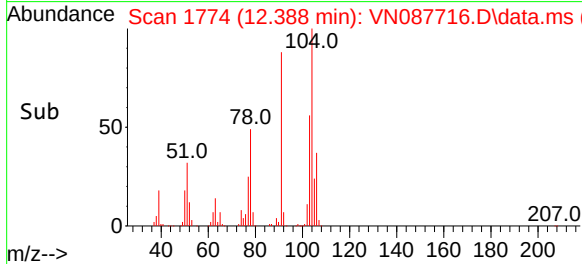
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:104 Resp: 182400  
Ion Ratio Lower Upper  
104 100  
78 52.4 43.8 65.8  
103 56.4 43.1 64.7

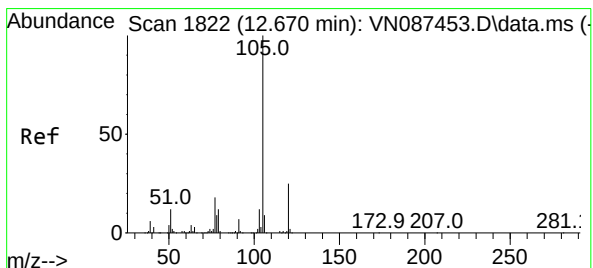
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



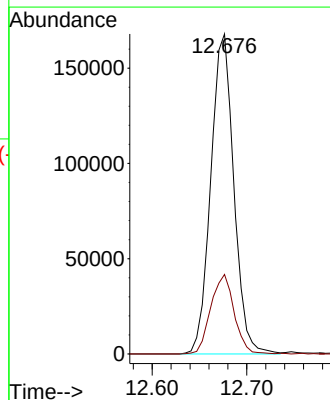
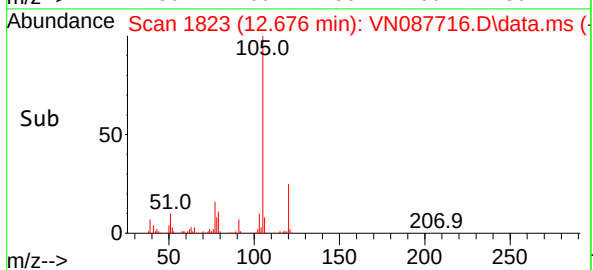
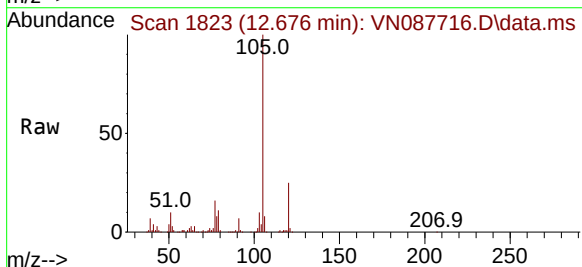
09/05/2025  
Supervised By :Mahesh  
Dadoda

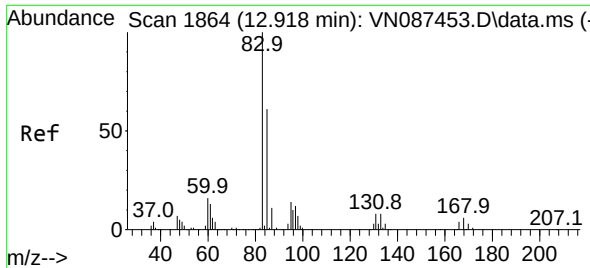
09/05/2025



#70  
Isopropylbenzene  
Concen: 20.257 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

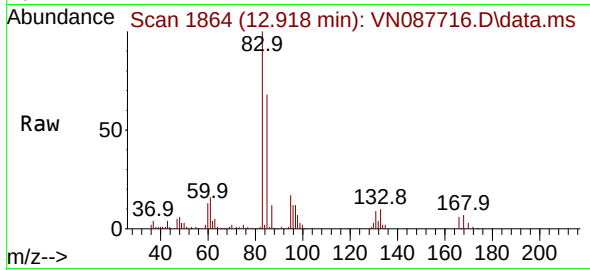
Tgt Ion:105 Resp: 284473  
Ion Ratio Lower Upper  
105 100  
120 25.2 17.5 32.5





#71  
1,1,2,2-Tetrachloroethane  
Concen: 21.223 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

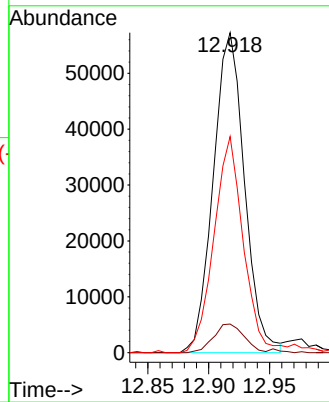
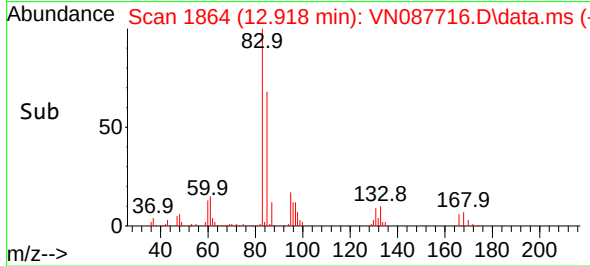
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 83 Resp: 102118  
Ion Ratio Lower Upper  
83 100  
131 8.8 4.8 14.3  
85 63.6 31.7 95.1

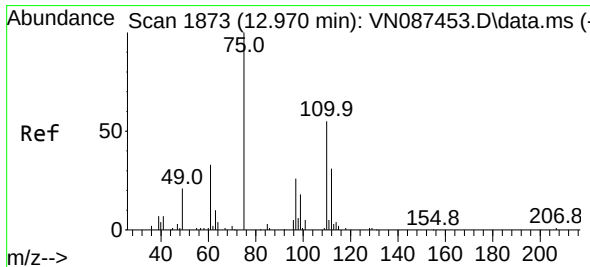
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

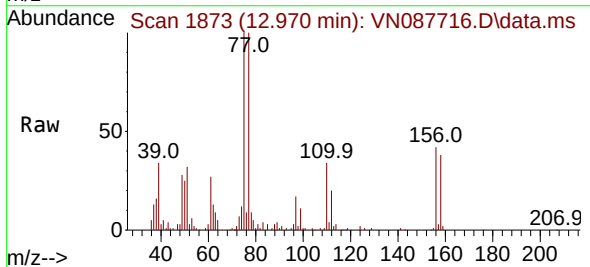


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Supervised By :Mahesh  
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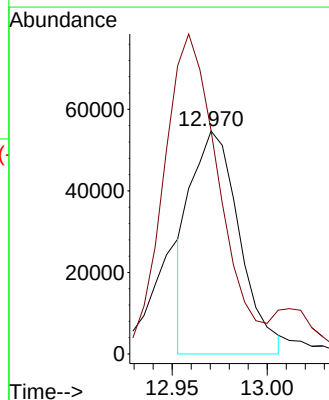
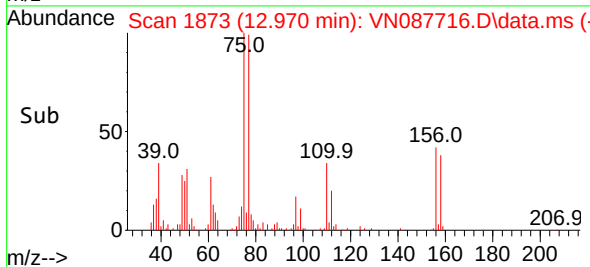
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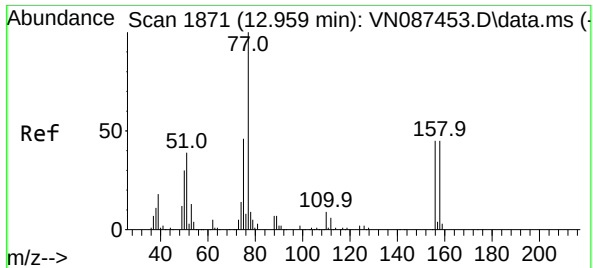


#72  
1,2,3-Trichloropropane  
Concen: 21.750 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



Tgt Ion: 75 Resp: 97496  
Ion Ratio Lower Upper  
75 100  
77 164.7 0.0 385.0





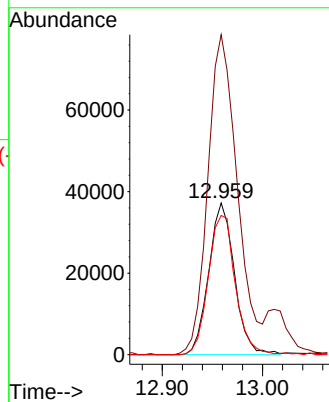
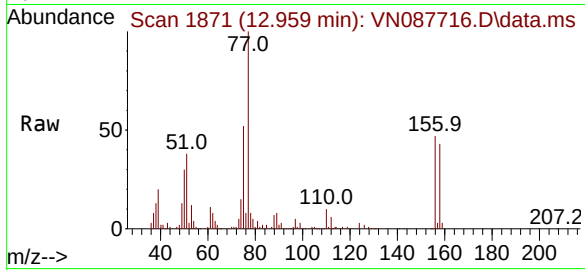
#73  
Bromobenzene  
Concen: 20.415 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion:156 Resp: 6646  
Ion Ratio Lower Upper  
156 100  
77 241.6 0.0 506.6  
158 96.0 0.0 193.6

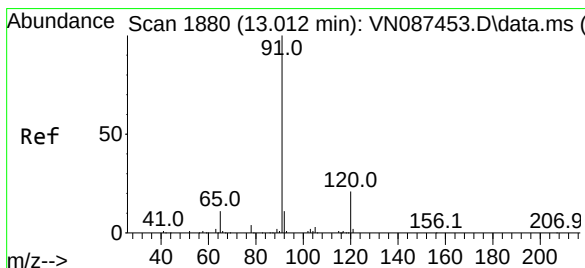
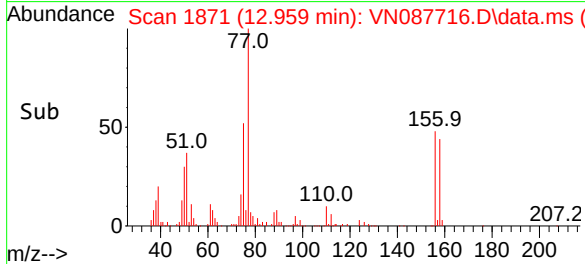
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



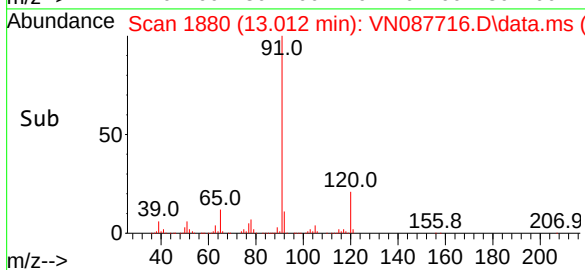
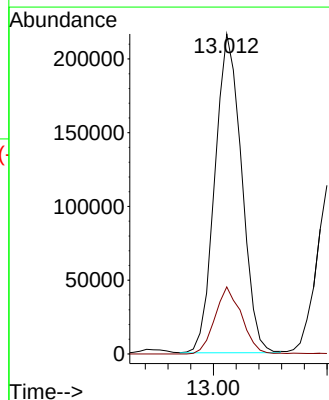
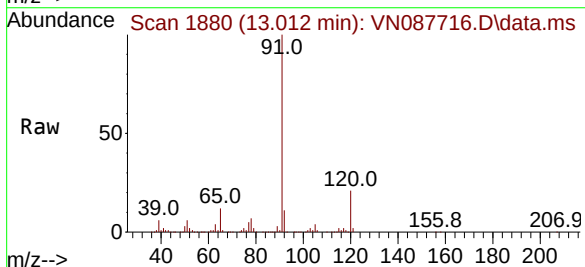
09/05/2025  
Supervised By :Mahesh  
Dadoda

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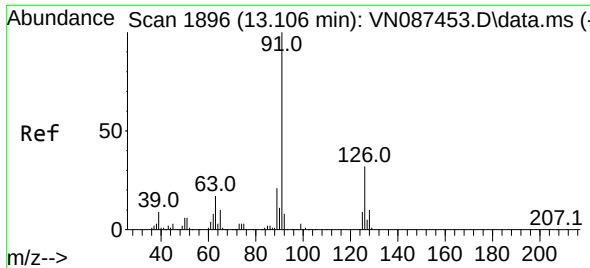


#74  
n-propylbenzene  
Concen: 20.144 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 353290  
Ion Ratio Lower Upper  
91 100  
120 21.0 0.0 41.8







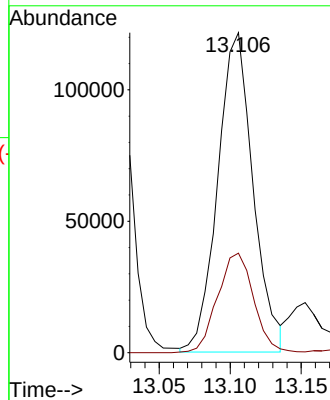
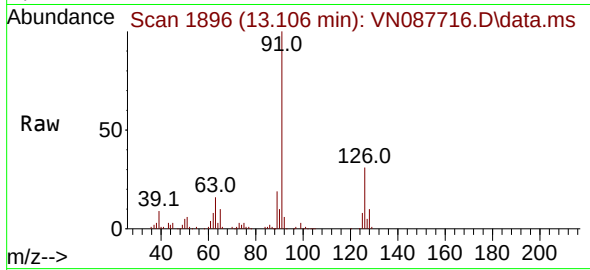
#75  
2-Chlorotoluene  
Concen: 19.534 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 91 Resp: 210740  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 60.4

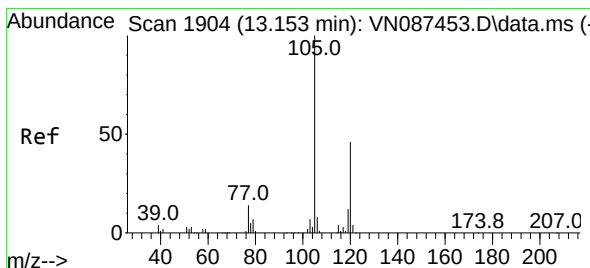
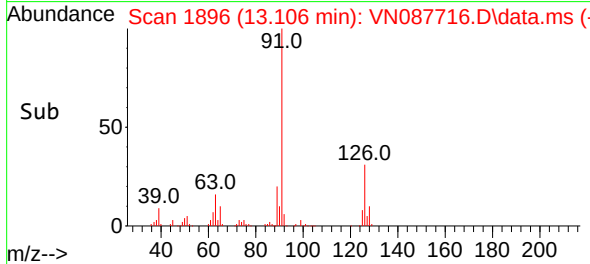
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



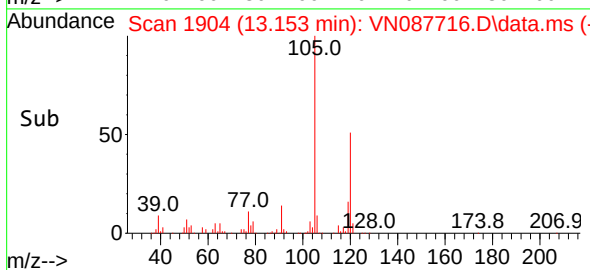
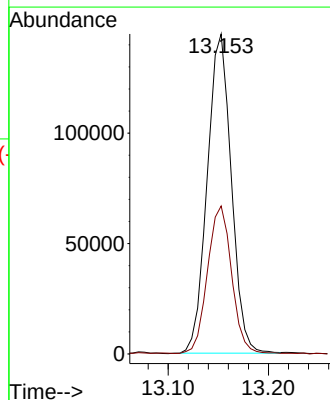
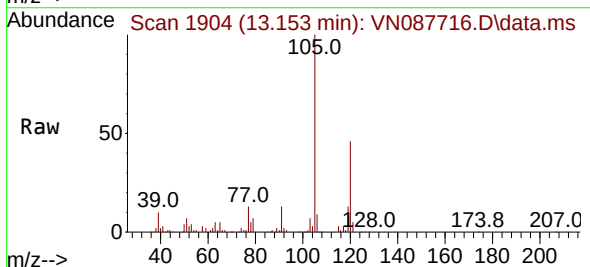
09/05/2025  
Supervised By :Mahesh  
Dadoda

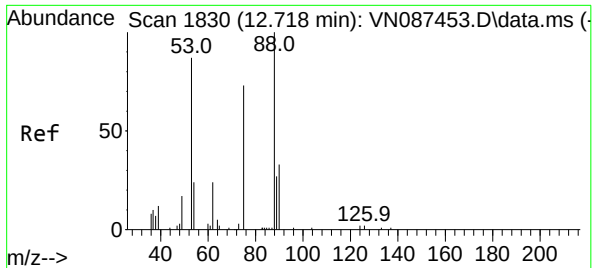
09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 20.093 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

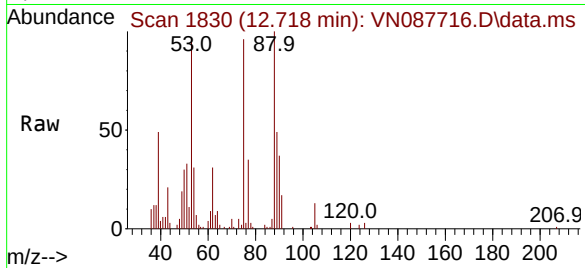
Tgt Ion:105 Resp: 241598  
Ion Ratio Lower Upper  
105 100  
120 46.7 0.0 91.2





#77  
t-1,4-Dichloro-2-butene  
Concen: 18.997 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

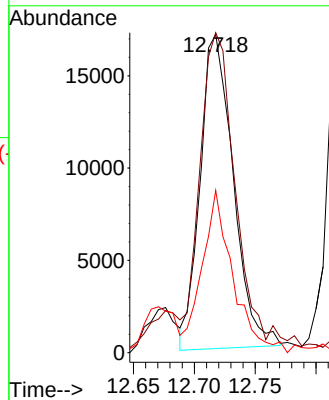
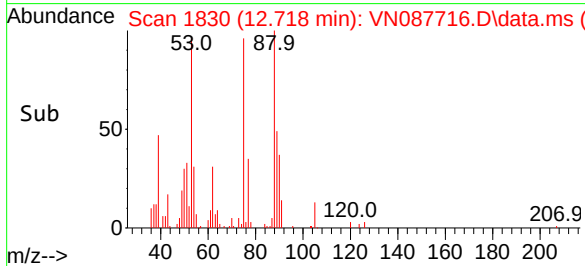
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 75 Resp: 32235  
Ion Ratio Lower Upper  
75 100  
53 98.6 59.0 176.8  
89 49.0 22.1 66.5

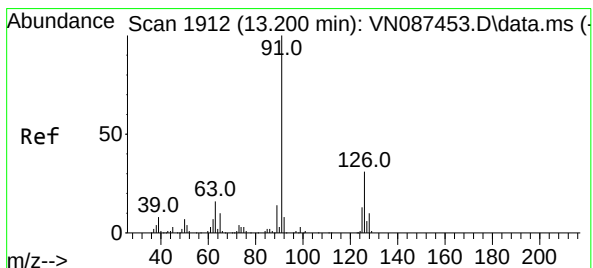
Manual Integrations  
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Reviewed By :Semsettin  
Yesilyurt



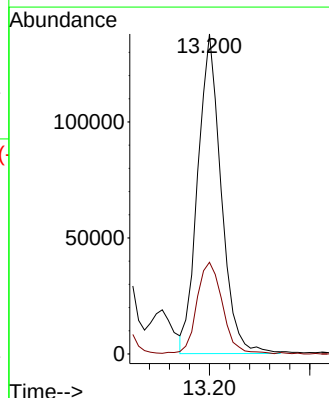
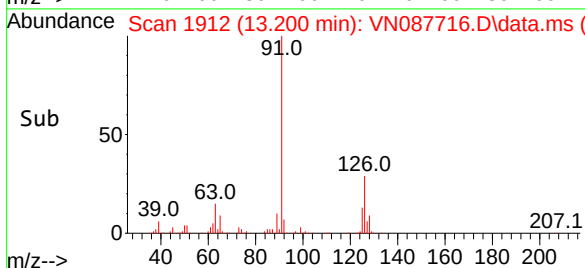
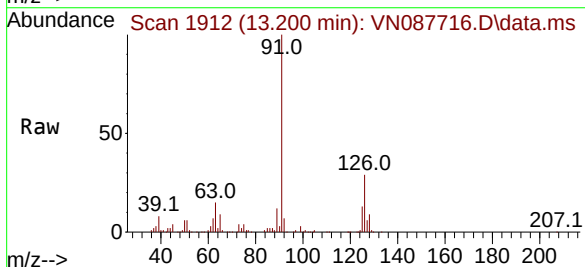
09/05/2025  
Supervised By :Mahesh  
Dadoda

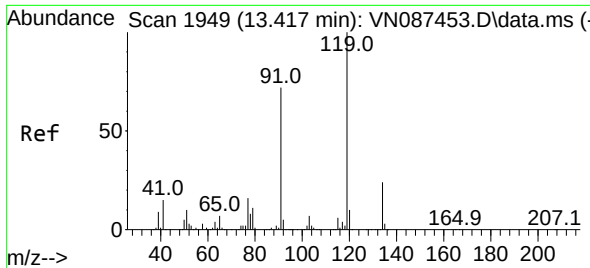
09/05/2025



#78  
4-Chlorotoluene  
Concen: 20.484 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 223950  
Ion Ratio Lower Upper  
91 100  
126 31.2 0.0 63.2





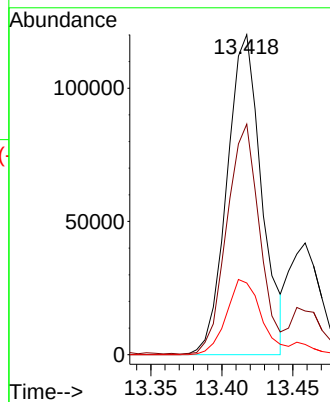
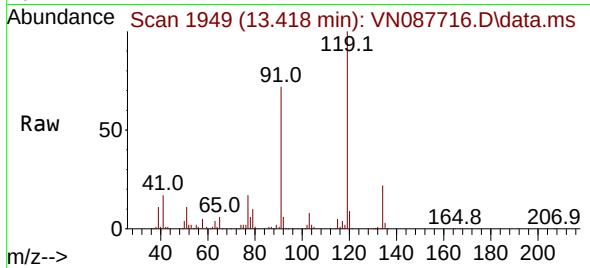
#79  
tert-butylbenzene  
Concen: 20.057 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion:119 Resp: 203330  
Ion Ratio Lower Upper  
119 100  
91 67.8 0.0 141.6  
134 23.9 0.0 45.6

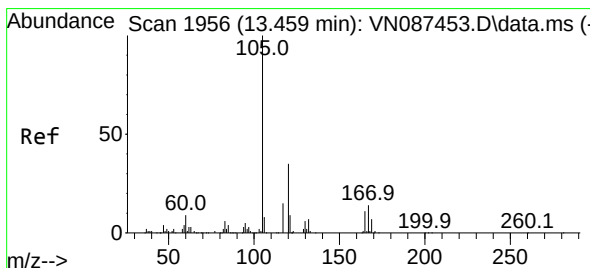
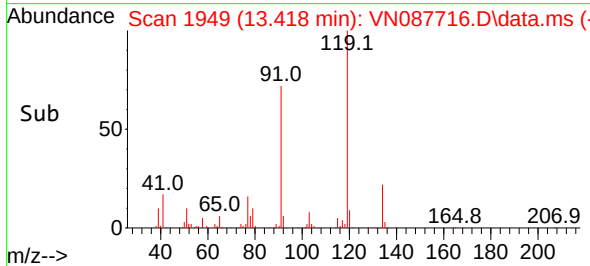
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



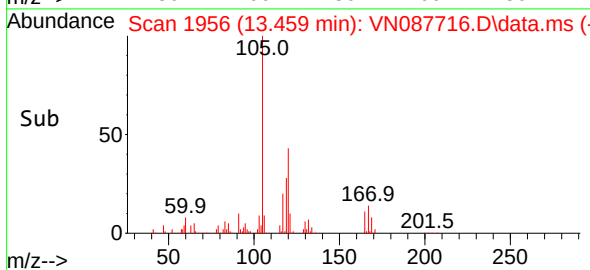
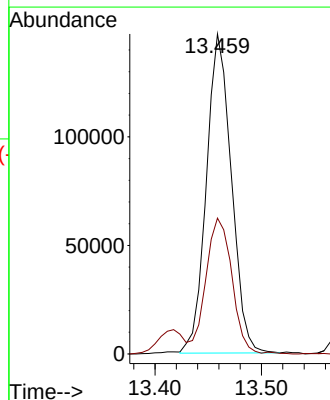
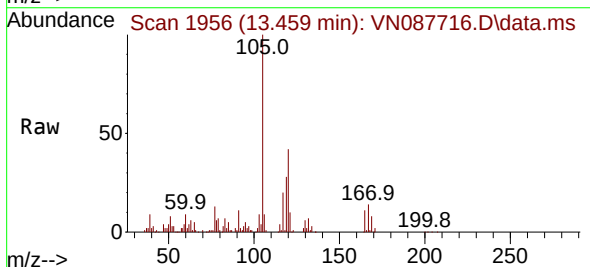
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Supervised By :Mahesh  
Dadoda

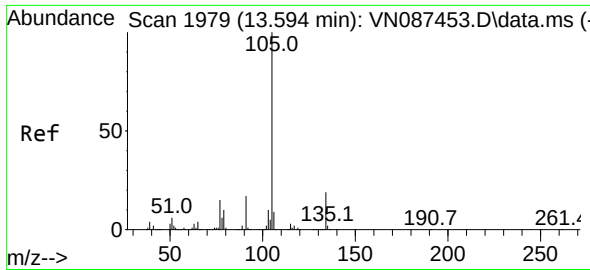
09/05/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 19.957 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:105 Resp: 239788  
Ion Ratio Lower Upper  
105 100  
120 44.4 0.0 87.2





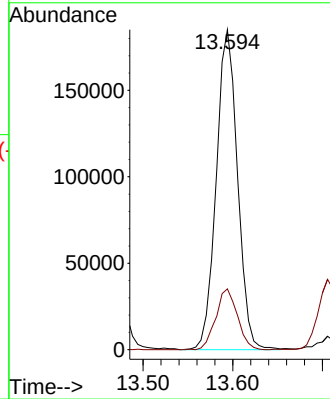
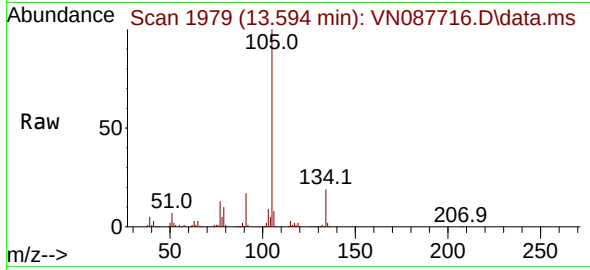
#81  
 sec-Butylbenzene  
 Concen: 20.645 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Tgt Ion:105 Resp: 30469  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 0.0 37.6

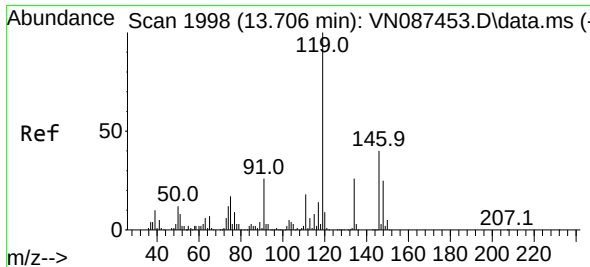
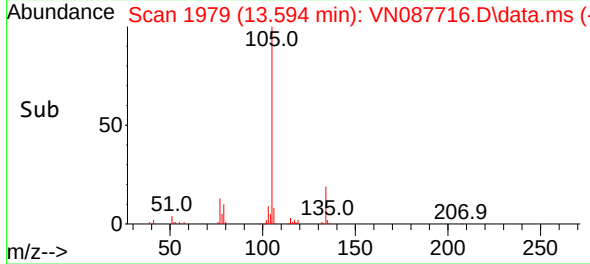
Manual Integrations  
 APPROVED

Reviewed By :Semsettin  
 Yesilyurt



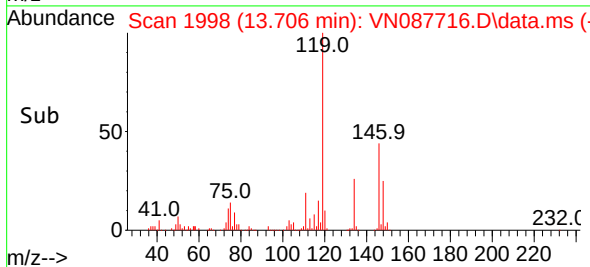
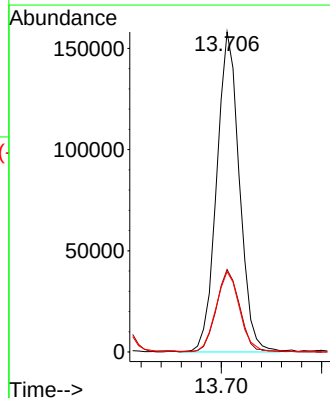
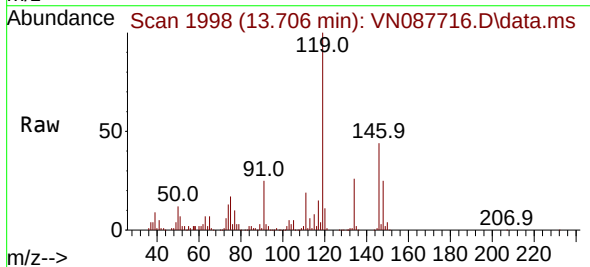
09/05/2025  
 Supervised By :Mahesh  
 Dadoda

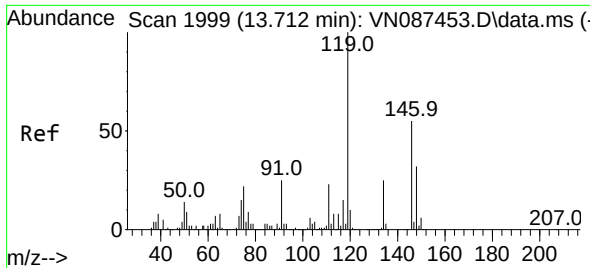
09/05/2025



#82  
 p-Isopropyltoluene  
 Concen: 20.265 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

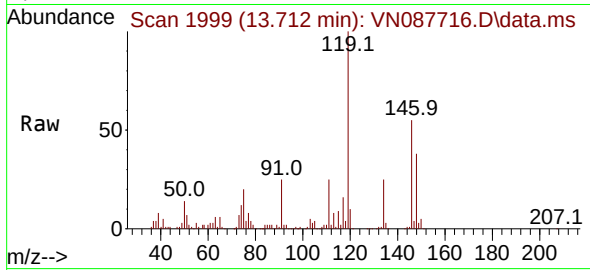
Tgt Ion:119 Resp: 248332  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 0.0 51.4  
 91 25.8 0.0 52.0





#83  
1,3-Dichlorobenzene  
Concen: 21.724 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

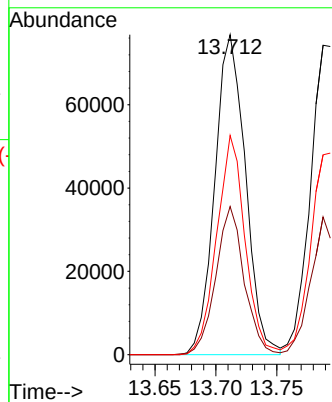
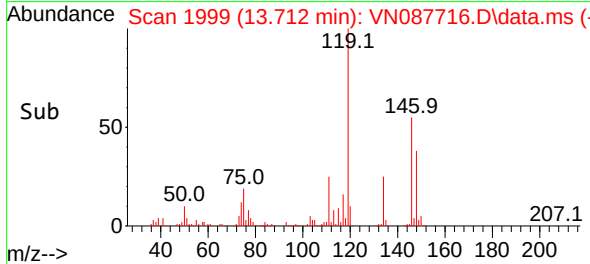
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:146 Resp: 134672  
Ion Ratio Lower Upper  
146 100  
111 42.9 21.9 65.5  
148 63.4 31.3 93.9

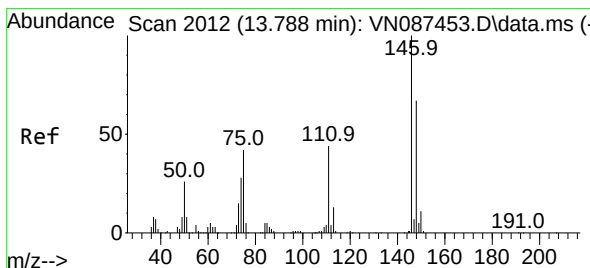
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

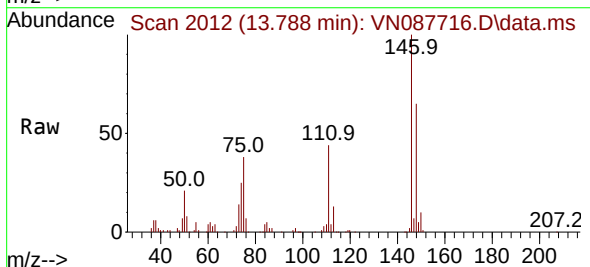


09/05/2025  
Supervised By :Mahesh  
Dadoda

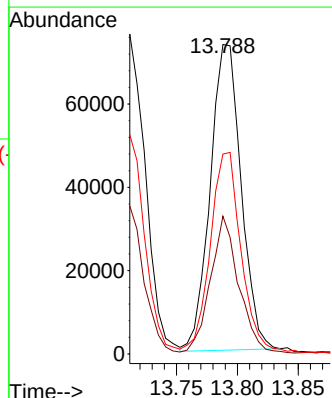
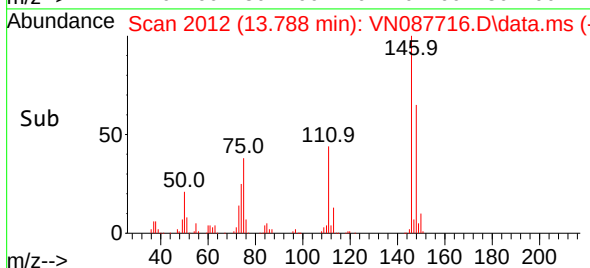
09/05/2025

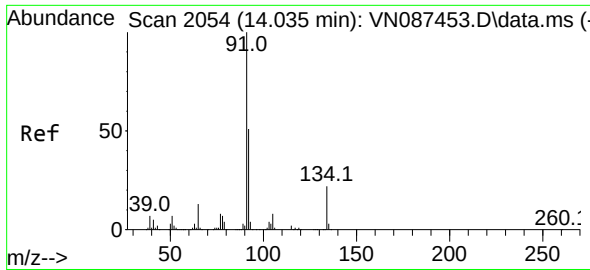


#84  
1,4-Dichlorobenzene  
Concen: 20.660 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



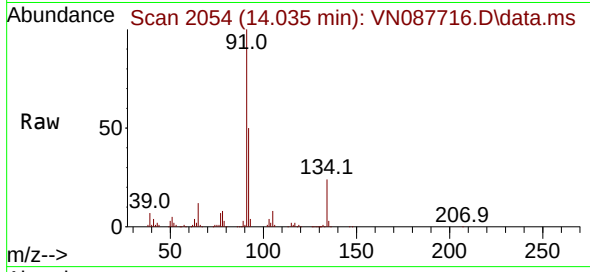
Tgt Ion:146 Resp: 129848  
Ion Ratio Lower Upper  
146 100  
111 41.9 21.1 63.1  
148 66.6 31.4 94.3





#85  
n-Butylbenzene  
Concen: 20.461 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

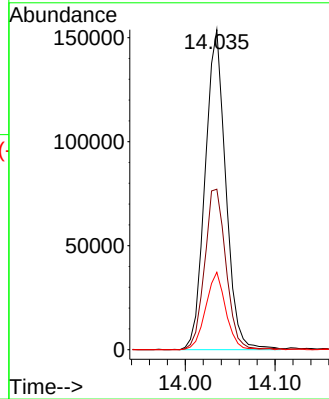
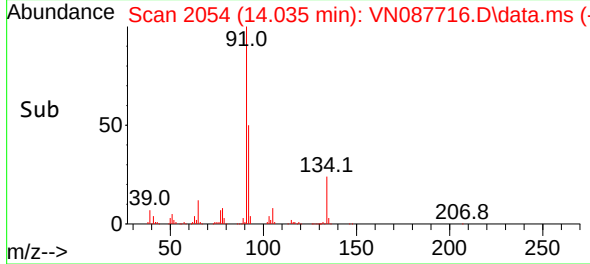
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion: 91 Resp: 245310  
Ion Ratio Lower Upper  
91 100  
92 51.8 0.0 106.6  
134 23.5 0.0 44.4

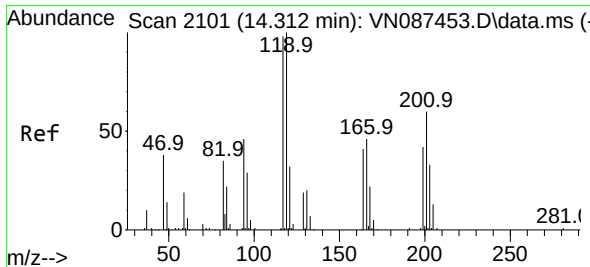
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt



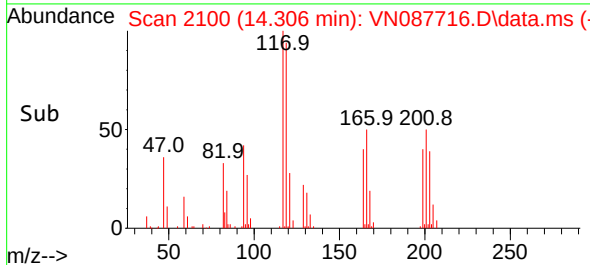
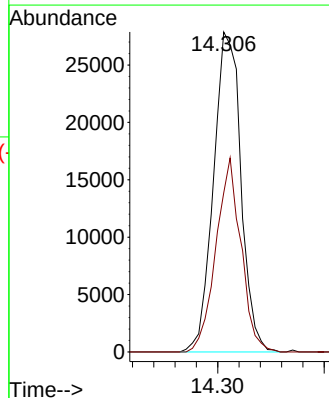
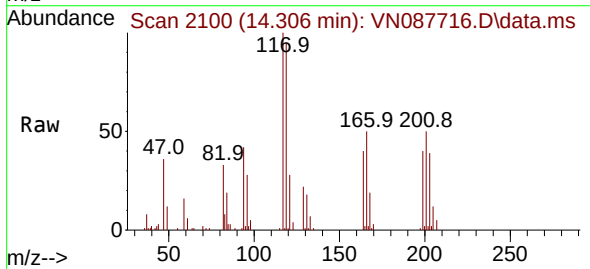
09/05/2025  
Supervised By :Mahesh  
Dadoda

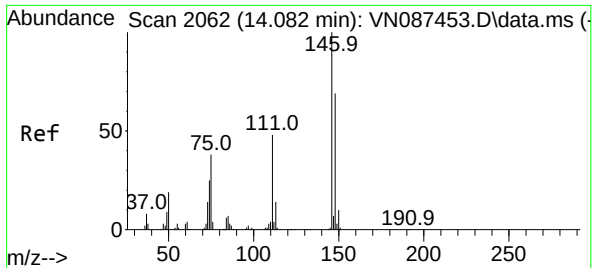
09/05/2025



#86  
Hexachloroethane  
Concen: 20.801 ug/l  
RT: 14.306 min Scan# 2100  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:117 Resp: 49777  
Ion Ratio Lower Upper  
117 100  
201 55.4 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 21.582 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

Tgt Ion:146 Resp: 12771

Ion Ratio Lower Upper

146 100

111 44.3 22.9 68.7

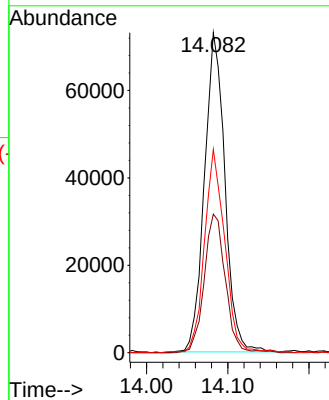
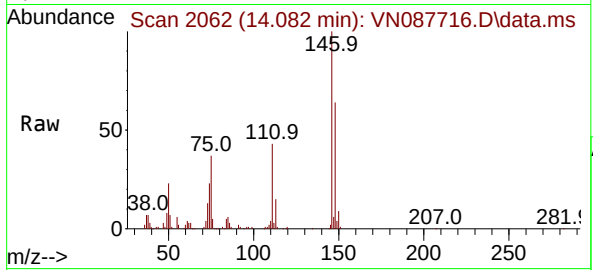
148 62.3 31.6 94.7

Manual Integrations

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Reviewed By :Semsettin

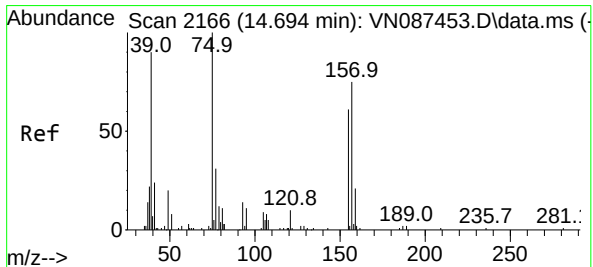
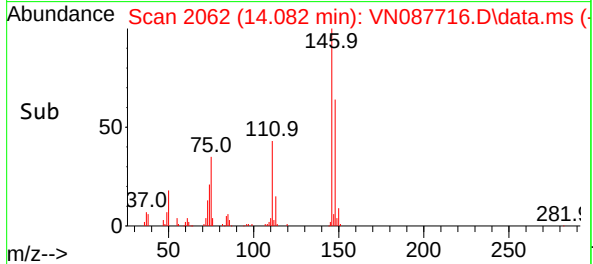
Yesilyurt



09/05/2025

Supervised By :Mahesh  
Dadoda

09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.240 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

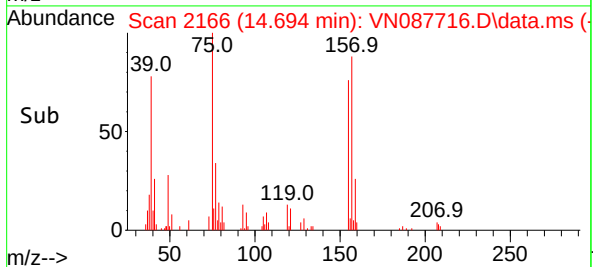
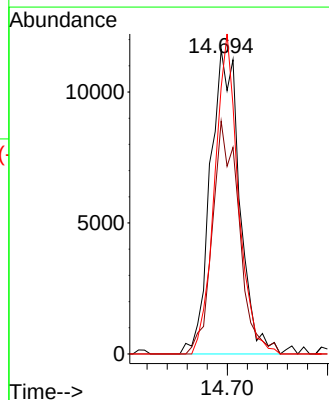
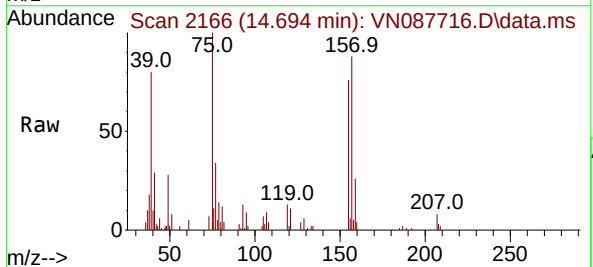
Tgt Ion: 75 Resp: 23453

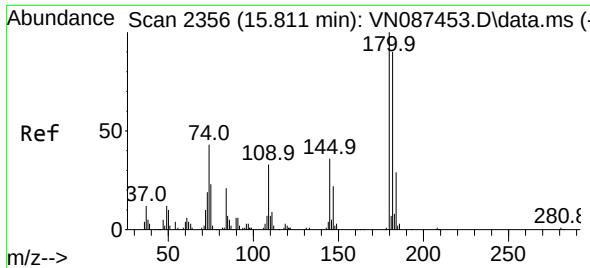
Ion Ratio Lower Upper

75 100

155 69.5 55.7 83.5

157 85.1 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.810 ug/l

RT: 15.817 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

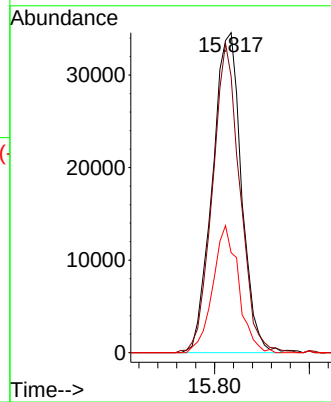
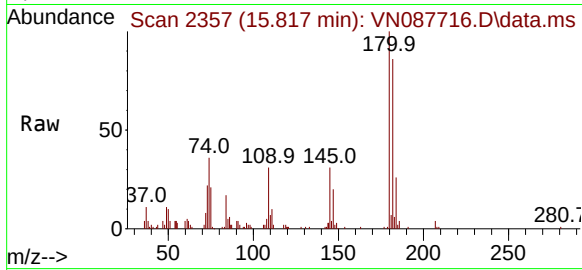
Instrument :

MSVOA\_N

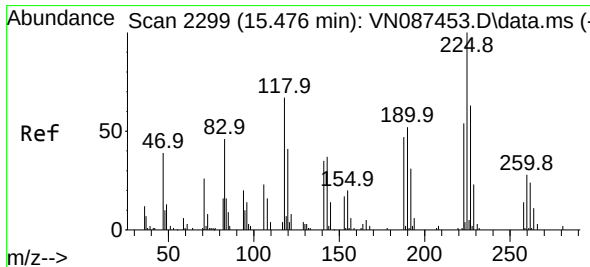
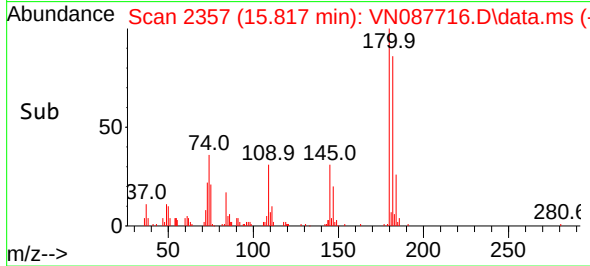
ClientSampleId :

VN0904WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 73590 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 91.2  | 75.0  | 112.4 |
| 145       | 35.3  | 28.6  | 43.0  |

Manual Integrations  
APPROVEDReviewed By :Semsettin  
Yesilyurt09/05/2025  
Supervised By :Mahesh  
Dadoda

09/05/2025



#90

Hexachlorobutadiene

Concen: 19.580 ug/l

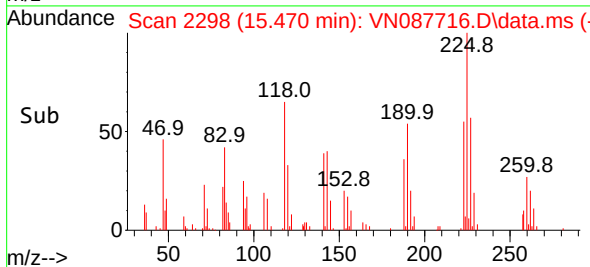
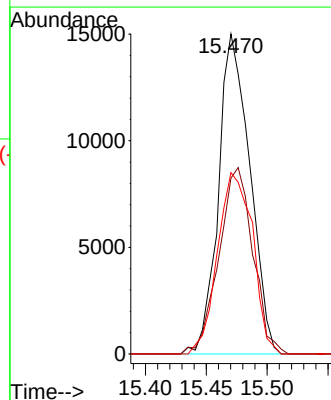
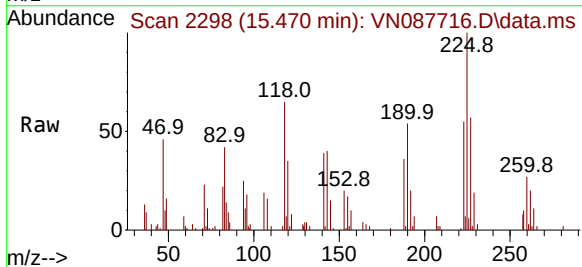
RT: 15.470 min Scan# 2298

Delta R.T. -0.006 min

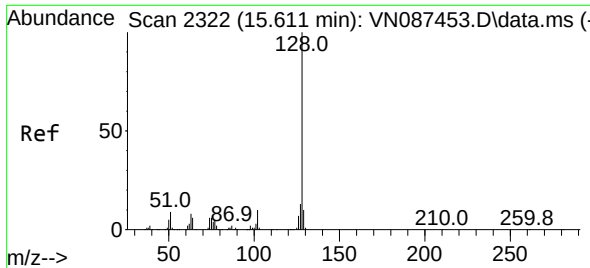
Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 26926 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 63.1  | 0.0   | 116.0 |
| 227       | 63.4  | 0.0   | 127.0 |

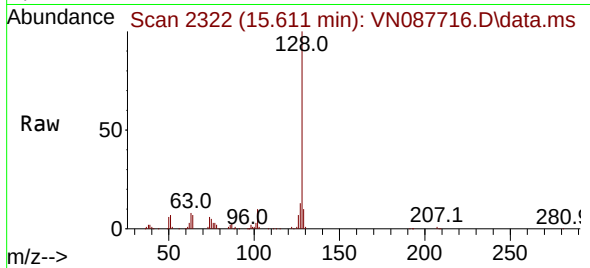






#91  
Naphthalene  
Concen: 19.306 ug/l  
RT: 15.611 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

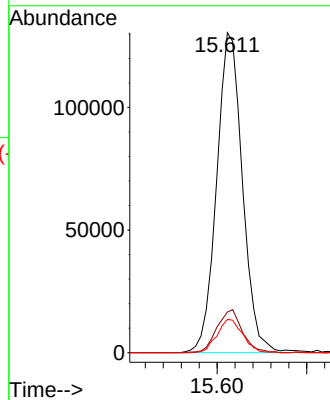
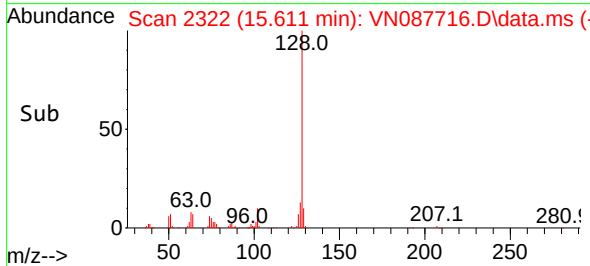
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01



Tgt Ion:128 Resp: 260334  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.2 15.4  
129 10.4 8.9 13.3

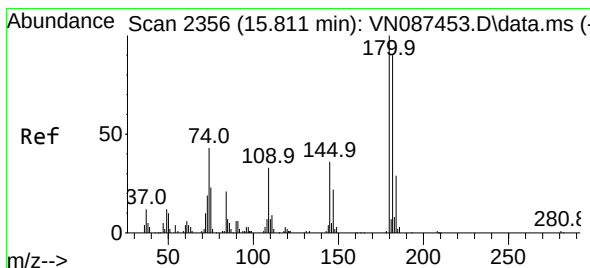
Manual Integrations  
APPROVED

Reviewed By :Semsettin  
Yesilyurt

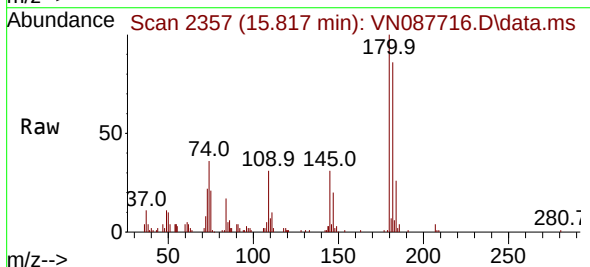


09/05/2025  
Supervised By :Mahesh  
Dadoda

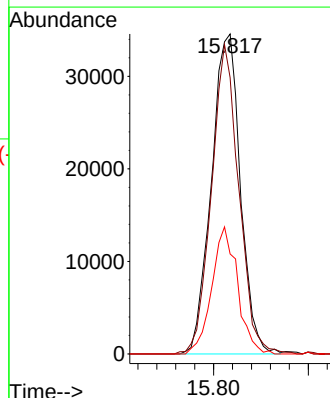
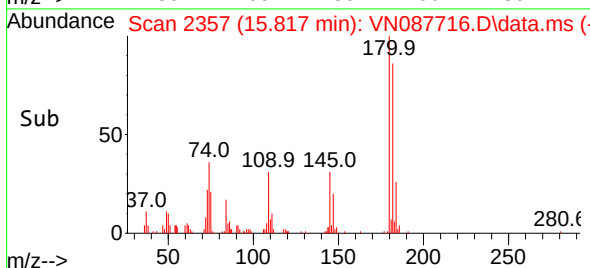
09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 20.810 ug/l  
RT: 15.817 min Scan# 2357  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38



Tgt Ion:180 Resp: 73596  
Ion Ratio Lower Upper  
180 100  
182 91.2 0.0 187.4  
145 35.3 0.0 71.6



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vn080525 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-------------|------------|--------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDICC005  | VN087452.D | 1,2,3-Trichloropropane   | JOHN      | 8/6/2025 8:44:05 AM | MMDadoda      | 8/6/2025 9:39:20 AM | Peak Integrated by Software |
| VSTDICC005  | VN087452.D | Ethyl Acetate            | JOHN      | 8/6/2025 8:44:05 AM | MMDadoda      | 8/6/2025 9:39:20 AM | Peak Integrated by Software |
| VSTDICC005  | VN087452.D | Methyl Iodide            | JOHN      | 8/6/2025 8:44:05 AM | MMDadoda      | 8/6/2025 9:39:20 AM | Peak Integrated by Software |
| VSTDICC005  | VN087452.D | n-amyl Acetate           | JOHN      | 8/6/2025 8:44:05 AM | MMDadoda      | 8/6/2025 9:39:20 AM | Peak Integrated by Software |
| VSTDICC005  | VN087452.D | trans-1,2-Dichloroethene | JOHN      | 8/6/2025 8:44:05 AM | MMDadoda      | 8/6/2025 9:39:20 AM | Peak Integrated by Software |
| VSTDICCC020 | VN087453.D | 1,2,3-Trichloropropane   | JOHN      | 8/6/2025 8:44:09 AM | MMDadoda      | 8/6/2025 9:39:23 AM | Peak Integrated by Software |
| VSTDICCC020 | VN087453.D | Ethyl Acetate            | JOHN      | 8/6/2025 8:44:09 AM | MMDadoda      | 8/6/2025 9:39:23 AM | Peak Integrated by Software |
| VSTDICCC020 | VN087453.D | Methyl Iodide            | JOHN      | 8/6/2025 8:44:09 AM | MMDadoda      | 8/6/2025 9:39:23 AM | Peak Integrated by Software |
| VSTDICCC020 | VN087453.D | Methylene Chloride       | JOHN      | 8/6/2025 8:44:09 AM | MMDadoda      | 8/6/2025 9:39:23 AM | Peak Integrated by Software |
| VSTDICCC020 | VN087453.D | n-amyl Acetate           | JOHN      | 8/6/2025 8:44:09 AM | MMDadoda      | 8/6/2025 9:39:23 AM | Peak Integrated by Software |
| VSTDICCC050 | VN087454.D | 1,2,3-Trichloropropane   | JOHN      | 8/6/2025 8:44:15 AM | MMDadoda      | 8/6/2025 9:39:27 AM | Peak Integrated by Software |
| VSTDICCC050 | VN087454.D | n-amyl Acetate           | JOHN      | 8/6/2025 8:44:15 AM | MMDadoda      | 8/6/2025 9:39:27 AM | Peak Integrated by Software |
| VSTDICCC100 | VN087455.D | 1,2,3-Trichloropropane   | JOHN      | 8/6/2025 8:44:19 AM | MMDadoda      | 8/6/2025 9:39:30 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

vn080525

Instrument

MSVOA\_n

| Sample ID  | File ID    | Parameter              | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|------------|------------|------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDICC150 | VN087456.D | 1,2,3-Trichloropropane | JOHN      | 8/6/2025 8:44:24 AM | MMDadoda      | 8/6/2025 9:39:31 AM | Peak Integrated by Software |
| VSTDICV020 | VN087458.D | 1,2,3-Trichloropropane | JOHN      | 8/6/2025 8:44:28 AM | MMDadoda      | 8/6/2025 9:39:41 AM | Peak Integrated by Software |
| VSTDICV020 | VN087458.D | n-amyl Acetate         | JOHN      | 8/6/2025 8:44:28 AM | MMDadoda      | 8/6/2025 9:39:41 AM | Peak Integrated by Software |
| VSTDCCC020 | VN087466.D | 1,2,3-Trichloropropane | JOHN      | 8/6/2025 8:45:09 AM | MMDadoda      | 8/6/2025 9:39:51 AM | Peak Integrated by Software |
| VSTDCCC020 | VN087466.D | Ethyl Acetate          | JOHN      | 8/6/2025 8:45:09 AM | MMDadoda      | 8/6/2025 9:39:51 AM | Peak Integrated by Software |
| VSTDCCC020 | VN087466.D | n-amyl Acetate         | JOHN      | 8/6/2025 8:45:09 AM | MMDadoda      | 8/6/2025 9:39:51 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | Vn090425 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID    | File ID    | Parameter                      | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|--------------|------------|--------------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDCCC020   | VN087714.D | 1,2,3-Trichloropropane         | sam       | 9/5/2025 1:44:22 PM | MMDadoda      | 9/5/2025 2:56:13 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087714.D | Acetone                        | sam       | 9/5/2025 1:44:22 PM | MMDadoda      | 9/5/2025 2:56:13 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087714.D | Allyl chloride                 | sam       | 9/5/2025 1:44:22 PM | MMDadoda      | 9/5/2025 2:56:13 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087714.D | n-amyl Acetate                 | sam       | 9/5/2025 1:44:22 PM | MMDadoda      | 9/5/2025 2:56:13 PM | Peak Integrated by Software |
| VN0904WBS01  | VN087715.D | 1,1,2-Trichlorotrifluoroethane | sam       | 9/5/2025 1:44:27 PM | MMDadoda      | 9/5/2025 2:56:15 PM | Peak Integrated by Software |
| VN0904WBS01  | VN087715.D | 1,2,3-Trichloropropane         | sam       | 9/5/2025 1:44:27 PM | MMDadoda      | 9/5/2025 2:56:15 PM | Peak Integrated by Software |
| VN0904WBS01  | VN087715.D | n-amyl Acetate                 | sam       | 9/5/2025 1:44:27 PM | MMDadoda      | 9/5/2025 2:56:15 PM | Peak Integrated by Software |
| VN0904WBSD01 | VN087716.D | 1,2,3-Trichloropropane         | sam       | 9/5/2025 1:44:32 PM | MMDadoda      | 9/5/2025 2:56:17 PM | Peak Integrated by Software |
| VN0904WBSD01 | VN087716.D | n-amyl Acetate                 | sam       | 9/5/2025 1:44:32 PM | MMDadoda      | 9/5/2025 2:56:17 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087723.D | 1,2,3-Trichloropropane         | sam       | 9/5/2025 1:45:37 PM | MMDadoda      | 9/5/2025 2:56:18 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087723.D | n-amyl Acetate                 | sam       | 9/5/2025 1:45:37 PM | MMDadoda      | 9/5/2025 2:56:18 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087723.D | tert-Butyl Alcohol             | sam       | 9/5/2025 1:45:37 PM | MMDadoda      | 9/5/2025 2:56:18 PM | Peak Integrated by Software |
| VSTDICC005   | VN087725.D | 1,1,2-Trichlorotrifluoroethane | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | Vn090425 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID | File ID    | Parameter                   | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-----------|------------|-----------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDIC005 | VN087725.D | 1,2,3-Trichloropropane      | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | 1,2-Dibromo-3-Chloropropane | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | 2,2-Dichloropropane         | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Acetone                     | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Allyl chloride              | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Diethyl Ether               | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Methyl Iodide               | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Methyl methacrylate         | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | Methyl tert-Butyl Ether     | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | n-amyl Acetate              | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | tert-Butyl Alcohol          | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC005 | VN087725.D | trans-1,2-Dichloroethene    | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDIC020 | VN087726.D | 1,2,3-Trichloropropane      | sam       | 9/5/2025 1:45:53 PM | MMDadoda      | 9/5/2025 2:56:23 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | Vn090425 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter                | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-------------|------------|--------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDICCC020 | VN087726.D | Acrylonitrile            | sam       | 9/5/2025 1:45:53 PM | MMDadoda      | 9/5/2025 2:56:23 PM | Peak Integrated by Software |
| VSTDICCC020 | VN087726.D | n-amyl Acetate           | sam       | 9/5/2025 1:45:53 PM | MMDadoda      | 9/5/2025 2:56:23 PM | Peak Integrated by Software |
| VSTDICCC020 | VN087726.D | trans-1,2-Dichloroethene | sam       | 9/5/2025 1:45:53 PM | MMDadoda      | 9/5/2025 2:56:23 PM | Peak Integrated by Software |
| VSTDICC050  | VN087727.D | 1,2,3-Trichloropropane   | sam       | 9/5/2025 1:46:26 PM | MMDadoda      | 9/5/2025 2:56:24 PM | Peak Integrated by Software |
| VSTDICC050  | VN087727.D | n-amyl Acetate           | sam       | 9/5/2025 1:46:26 PM | MMDadoda      | 9/5/2025 2:56:24 PM | Peak Integrated by Software |
| VSTDICC100  | VN087728.D | 1,2,3-Trichloropropane   | sam       | 9/5/2025 1:46:31 PM | MMDadoda      | 9/5/2025 2:56:26 PM | Peak Integrated by Software |
| VSTDICC100  | VN087728.D | Acrolein                 | sam       | 9/5/2025 1:46:31 PM | MMDadoda      | 9/5/2025 2:56:26 PM | Peak Integrated by Software |
| VSTDICC100  | VN087728.D | n-amyl Acetate           | sam       | 9/5/2025 1:46:31 PM | MMDadoda      | 9/5/2025 2:56:26 PM | Peak Integrated by Software |
| VSTDICC150  | VN087729.D | 1,2,3-Trichloropropane   | sam       | 9/5/2025 1:45:48 PM | MMDadoda      | 9/5/2025 2:56:28 PM | Peak Integrated by Software |
| VSTDICC150  | VN087729.D | Acrolein                 | sam       | 9/5/2025 1:45:48 PM | MMDadoda      | 9/5/2025 2:56:28 PM | Peak Integrated by Software |
| VSTDICC150  | VN087729.D | Carbon Disulfide         | sam       | 9/5/2025 1:45:48 PM | MMDadoda      | 9/5/2025 2:56:28 PM | Peak Integrated by Software |
| VSTDICC150  | VN087729.D | n-amyl Acetate           | sam       | 9/5/2025 1:45:48 PM | MMDadoda      | 9/5/2025 2:56:28 PM | Peak Integrated by Software |
| VSTDICV020  | VN087731.D | 1,2,3-Trichloropropane   | sam       | 9/5/2025 1:46:09 PM | MMDadoda      | 9/5/2025 2:56:30 PM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

Vn090425

Instrument

MSVOA\_n

| Sample ID  | File ID    | Parameter      | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|------------|------------|----------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| VSTDICV020 | VN087731.D | Acrolein       | sam       | 9/5/2025 1:46:09 PM | MMDadoda      | 9/5/2025 2:56:30 PM | Peak Integrated by Software |
| VSTDICV020 | VN087731.D | Methyl Iodide  | sam       | 9/5/2025 1:46:09 PM | MMDadoda      | 9/5/2025 2:56:30 PM | Peak Integrated by Software |
| VSTDICV020 | VN087731.D | n-amyl Acetate | sam       | 9/5/2025 1:46:09 PM | MMDadoda      | 9/5/2025 2:56:30 PM | Peak Integrated by Software |

Instrument ID: **MSVOA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # VN080525**

|                          |                                              |                   |                                    |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Review By                | John Carlone                                 | Review On         | 8/6/2025 8:45:40 AM                |
| Supervise By             | Mahesh Dadoda                                | Supervise On      | 8/6/2025 9:40:10 AM                |
| SubDirectory             | VN080525                                     | HP Acquire Method | HP Processing Method 624N080525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                             |                   |                                    |
| Tune/Reschk              | VP134999                                     |                   |                                    |
| Initial Calibration Stds | VP135004,VP135005,VP135006,VP135007,VP135008 |                   |                                    |
| CCC                      | VP135003,VP135010                            |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP135009                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VN087447.D     | 05 Aug 2025 09:27 | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VN087448.D     | 05 Aug 2025 10:06 | JC\MD    | Not Ok |
| 3   | VN0805WBS01  | VN087449.D     | 05 Aug 2025 11:21 | JC\MD    | Not Ok |
| 4   | VN0805WBSD01 | VN087450.D     | 05 Aug 2025 12:02 | JC\MD    | Not Ok |
| 5   | VN0805WBL01  | VN087451.D     | 05 Aug 2025 12:58 | JC\MD    | Not Ok |
| 6   | VSTDICC005   | VN087452.D     | 05 Aug 2025 13:37 | JC\MD    | Ok,M   |
| 7   | VSTDICCC020  | VN087453.D     | 05 Aug 2025 13:58 | JC\MD    | Ok,M   |
| 8   | VSTDICC050   | VN087454.D     | 05 Aug 2025 14:19 | JC\MD    | Ok,M   |
| 9   | VSTDICC100   | VN087455.D     | 05 Aug 2025 14:40 | JC\MD    | Ok,M   |
| 10  | VSTDICC150   | VN087456.D     | 05 Aug 2025 15:01 | JC\MD    | Ok,M   |
| 11  | IBLK         | VN087457.D     | 05 Aug 2025 15:22 | JC\MD    | Ok     |
| 12  | VSTDICV020   | VN087458.D     | 05 Aug 2025 15:43 | JC\MD    | Ok,M   |
| 13  | VN0805WBS02  | VN087459.D     | 05 Aug 2025 16:17 | JC\MD    | Ok,M   |
| 14  | VN0805WBSD02 | VN087460.D     | 05 Aug 2025 16:50 | JC\MD    | Ok,M   |
| 15  | VN0805WBL02  | VN087461.D     | 05 Aug 2025 17:32 | JC\MD    | Ok     |
| 16  | Q2771-04     | VN087462.D     | 05 Aug 2025 17:53 | JC\MD    | Ok     |
| 17  | Q2771-01     | VN087463.D     | 05 Aug 2025 18:14 | JC\MD    | Ok,M   |
| 18  | Q2771-02MS   | VN087464.D     | 05 Aug 2025 18:35 | JC\MD    | Ok,M   |
| 19  | Q2771-03MSD  | VN087465.D     | 05 Aug 2025 18:56 | JC\MD    | Ok,M   |
| 20  | VSTDCCC020   | VN087466.D     | 05 Aug 2025 19:17 | JC\MD    | Ok,M   |

M : Manual Integration



Instrument ID: **MSVOA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # VN090425**

|                          |                                              |                   |                                    |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Review By                | Mahesh Dadoda                                | Review On         | 9/5/2025 2:55:23 PM                |
| Supervise By             | Semsettin Yesilyurt                          | Supervise On      | 9/5/2025 2:57:06 PM                |
| SubDirectory             | VN090425                                     | HP Acquire Method | HP Processing Method 624N080525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                             |                   |                                    |
| Tune/Reschk              | VP135371,VP135374                            |                   |                                    |
| Initial Calibration Stds | VP135375,VP135376,VP135377,VP135378,VP135379 |                   |                                    |
| CCC                      | VP135372,VP135373                            |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP135380                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VN087713.D     | 04 Sep 2025 10:10 | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VN087714.D     | 04 Sep 2025 10:54 | JC\MD    | Ok,M   |
| 3   | VN0904WBS01  | VN087715.D     | 04 Sep 2025 12:04 | JC\MD    | Ok,M   |
| 4   | VN0904WBSD01 | VN087716.D     | 04 Sep 2025 12:38 | JC\MD    | Ok,M   |
| 5   | VN0904WBL01  | VN087717.D     | 04 Sep 2025 12:59 | JC\MD    | Ok     |
| 6   | Q3017-01     | VN087718.D     | 04 Sep 2025 13:35 | JC\MD    | Ok     |
| 7   | Q3017-02     | VN087719.D     | 04 Sep 2025 13:56 | JC\MD    | Ok     |
| 8   | Q3017-04     | VN087720.D     | 04 Sep 2025 14:16 | JC\MD    | Ok     |
| 9   | Q3017-05     | VN087721.D     | 04 Sep 2025 14:37 | JC\MD    | Ok     |
| 10  | Q3017-03     | VN087722.D     | 04 Sep 2025 14:58 | JC\MD    | Ok     |
| 11  | VSTDCCC020   | VN087723.D     | 04 Sep 2025 15:21 | JC\MD    | Ok,M   |
| 12  | BLK          | VN087724.D     | 04 Sep 2025 15:41 | JC\MD    | Ok     |
| 13  | VSTDICC005   | VN087725.D     | 04 Sep 2025 16:23 | JC\MD    | Ok,M   |
| 14  | VSTDICCC020  | VN087726.D     | 04 Sep 2025 16:44 | JC\MD    | Ok,M   |
| 15  | VSTDICC050   | VN087727.D     | 04 Sep 2025 17:05 | JC\MD    | Ok,M   |
| 16  | VSTDICC100   | VN087728.D     | 04 Sep 2025 17:25 | JC\MD    | Ok,M   |
| 17  | VSTDICC150   | VN087729.D     | 04 Sep 2025 17:46 | JC\MD    | Ok,M   |
| 18  | IBLK         | VN087730.D     | 04 Sep 2025 18:07 | JC\MD    | Ok     |
| 19  | VSTDICV020   | VN087731.D     | 04 Sep 2025 18:28 | JC\MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # VN080525**

|              |               |                   |                                    |
|--------------|---------------|-------------------|------------------------------------|
| Review By    | John Carlone  | Review On         | 8/6/2025 8:45:40 AM                |
| Supervise By | Maresh Dadoda | Supervise On      | 8/6/2025 9:40:10 AM                |
| SubDirectory | VN080525      | HP Acquire Method | HP Processing Method 624N080525W.M |

| STD. NAME                | STD REF.#                                    |
|--------------------------|----------------------------------------------|
| Tune/Reschk              | VP134999                                     |
| Initial Calibration Stds | VP135004,VP135005,VP135006,VP135007,VP135008 |
| CCC                      | VP135003,VP135010                            |
| Internal Standard/PEM    |                                              |
| ICV/I.BLK                | VP135009                                     |
| Surrogate Standard       |                                              |
| MS/MSD Standard          |                                              |
| LCS Standard             |                                              |

| Sr# | SampleID     | ClientID            | Data File Name | Date-Time         | Comment       | Operator | Status |
|-----|--------------|---------------------|----------------|-------------------|---------------|----------|--------|
| 1   | BFB          | BFB                 | VN087447.D     | 05 Aug 2025 09:27 |               | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VSTDCCC020          | VN087448.D     | 05 Aug 2025 10:06 | Need ICAL     | JC\MD    | Not Ok |
| 3   | VN0805WBS01  | VN0805WBS01         | VN087449.D     | 05 Aug 2025 11:21 |               | JC\MD    | Not Ok |
| 4   | VN0805WBSD01 | VN0805WBSD01        | VN087450.D     | 05 Aug 2025 12:02 |               | JC\MD    | Not Ok |
| 5   | VN0805WBL01  | VN0805WBL01         | VN087451.D     | 05 Aug 2025 12:58 |               | JC\MD    | Not Ok |
| 6   | VSTDICC005   | VSTDICC005          | VN087452.D     | 05 Aug 2025 13:37 |               | JC\MD    | Ok,M   |
| 7   | VSTDICCC020  | VSTDICCC020         | VN087453.D     | 05 Aug 2025 13:58 |               | JC\MD    | Ok,M   |
| 8   | VSTDICC050   | VSTDICC050          | VN087454.D     | 05 Aug 2025 14:19 |               | JC\MD    | Ok,M   |
| 9   | VSTDICC100   | VSTDICC100          | VN087455.D     | 05 Aug 2025 14:40 |               | JC\MD    | Ok,M   |
| 10  | VSTDICC150   | VSTDICC150          | VN087456.D     | 05 Aug 2025 15:01 |               | JC\MD    | Ok,M   |
| 11  | IBLK         | IBLK                | VN087457.D     | 05 Aug 2025 15:22 |               | JC\MD    | Ok     |
| 12  | VSTDICV020   | ICVVN080525         | VN087458.D     | 05 Aug 2025 15:43 | pH#Lot#V12668 | JC\MD    | Ok,M   |
| 13  | VN0805WBS02  | VN0805WBS02         | VN087459.D     | 05 Aug 2025 16:17 |               | JC\MD    | Ok,M   |
| 14  | VN0805WBSD02 | VN0805WBSD02        | VN087460.D     | 05 Aug 2025 16:50 |               | JC\MD    | Ok,M   |
| 15  | VN0805WBL02  | VN0805WBL02         | VN087461.D     | 05 Aug 2025 17:32 |               | JC\MD    | Ok     |
| 16  | Q2771-04     | 002-35TH-AVE(JUNE)  | VN087462.D     | 05 Aug 2025 17:53 | vial A pH<2   | JC\MD    | Ok     |
| 17  | Q2771-01     | 001-WILLETS-PT-BLVD | VN087463.D     | 05 Aug 2025 18:14 | vial A pH<2   | JC\MD    | Ok,M   |
| 18  | Q2771-02MS   | 001-WILLETS-PT-BLVD | VN087464.D     | 05 Aug 2025 18:35 | vial A pH<2   | JC\MD    | Ok,M   |

Instrument ID: MSVOA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # VN080525**

|              |               |                   |                                    |
|--------------|---------------|-------------------|------------------------------------|
| Review By    | John Carlone  | Review On         | 8/6/2025 8:45:40 AM                |
| Supervise By | Maresh Dadoda | Supervise On      | 8/6/2025 9:40:10 AM                |
| SubDirectory | VN080525      | HP Acquire Method | HP Processing Method 624N080525W.M |

| STD. NAME                | STD REF.#                                    |
|--------------------------|----------------------------------------------|
| Tune/Reschk              | VP134999                                     |
| Initial Calibration Stds | VP135004,VP135005,VP135006,VP135007,VP135008 |
| CCC                      | VP135003,VP135010                            |
| Internal Standard/PEM    |                                              |
| ICV/I.BLK                | VP135009                                     |
| Surrogate Standard       |                                              |
| MS/MSD Standard          |                                              |
| LCS Standard             |                                              |

|    |             |                     |            |                   |             |       |      |
|----|-------------|---------------------|------------|-------------------|-------------|-------|------|
| 19 | Q2771-03MSD | 001-WILLETS-PT-BLVD | VN087465.D | 05 Aug 2025 18:56 | vial A pH<2 | JC\MD | Ok,M |
| 20 | VSTDCCC020  | VSTDCCC020EC        | VN087466.D | 05 Aug 2025 19:17 |             | JC\MD | Ok,M |

M : Manual Integration

Instrument ID: MSVOA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # VN090425**

|                          |                                              |                   |                                    |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Review By                | Mahesh Dadoda                                | Review On         | 9/5/2025 2:55:23 PM                |
| Supervise By             | Semsettin Yesilyurt                          | Supervise On      | 9/5/2025 2:57:06 PM                |
| SubDirectory             | VN090425                                     | HP Acquire Method | HP Processing Method 624N080525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                             |                   |                                    |
| Tune/Reschk              | VP135371,VP135374                            |                   |                                    |
| Initial Calibration Stds | VP135375,VP135376,VP135377,VP135378,VP135379 |                   |                                    |
| CCC                      | VP135372,VP135373                            |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP135380                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

| Sr# | SampleID     | ClientID           | Data File Name | Date-Time         | Comment        | Operator | Status |
|-----|--------------|--------------------|----------------|-------------------|----------------|----------|--------|
| 1   | BFB          | BFB                | VN087713.D     | 04 Sep 2025 10:10 |                | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VSTDCCC020         | VN087714.D     | 04 Sep 2025 10:54 |                | JC\MD    | Ok,M   |
| 3   | VN0904WBS01  | VN0904WBS01        | VN087715.D     | 04 Sep 2025 12:04 |                | JC\MD    | Ok,M   |
| 4   | VN0904WBSD01 | VN0904WBSD01       | VN087716.D     | 04 Sep 2025 12:38 |                | JC\MD    | Ok,M   |
| 5   | VN0904WBL01  | VN0904WBL01        | VN087717.D     | 04 Sep 2025 12:59 |                | JC\MD    | Ok     |
| 6   | Q3017-01     | BP-TB-20250903     | VN087718.D     | 04 Sep 2025 13:35 | vial A pH<2 TB | JC\MD    | Ok     |
| 7   | Q3017-02     | TT-076-IDWGW-20250 | VN087719.D     | 04 Sep 2025 13:56 | vial A+B pH<2  | JC\MD    | Ok     |
| 8   | Q3017-04     | TT-078-IDWGW-20250 | VN087720.D     | 04 Sep 2025 14:16 | vial A+B pH<2  | JC\MD    | Ok     |
| 9   | Q3017-05     | TT-079-IDWGW-20250 | VN087721.D     | 04 Sep 2025 14:37 | vial A+B pH<2  | JC\MD    | Ok     |
| 10  | Q3017-03     | TT-077-IDWGW-20250 | VN087722.D     | 04 Sep 2025 14:58 | vial A+B pH<2  | JC\MD    | Ok     |
| 11  | VSTDCCC020   | VSTDCCC020EC       | VN087723.D     | 04 Sep 2025 15:21 |                | JC\MD    | Ok,M   |
| 12  | BLK          | BLK                | VN087724.D     | 04 Sep 2025 15:41 |                | JC\MD    | Ok     |
| 13  | VSTDICC005   | VSTDICC005         | VN087725.D     | 04 Sep 2025 16:23 |                | JC\MD    | Ok,M   |
| 14  | VSTDICCC020  | VSTDICCC020        | VN087726.D     | 04 Sep 2025 16:44 |                | JC\MD    | Ok,M   |
| 15  | VSTDICC050   | VSTDICC050         | VN087727.D     | 04 Sep 2025 17:05 |                | JC\MD    | Ok,M   |
| 16  | VSTDICC100   | VSTDICC100         | VN087728.D     | 04 Sep 2025 17:25 |                | JC\MD    | Ok,M   |
| 17  | VSTDICC150   | VSTDICC150         | VN087729.D     | 04 Sep 2025 17:46 |                | JC\MD    | Ok,M   |
| 18  | IBLK         | IBLK               | VN087730.D     | 04 Sep 2025 18:07 |                | JC\MD    | Ok     |

Instrument ID: MSVOA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # VN090425**

| Review By                | Maresh Dadoda                                | Review On         | 9/5/2025 2:55:23 PM                |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Semsettin Yesilyurt                          | Supervise On      | 9/5/2025 2:57:06 PM                |
| SubDirectory             | VN090425                                     | HP Acquire Method | HP Processing Method 624N080525W.M |
| STD. NAME                | STD REF.#                                    |                   |                                    |
| Tune/Reschk              | VP135371,VP135374                            |                   |                                    |
| Initial Calibration Stds | VP135375,VP135376,VP135377,VP135378,VP135379 |                   |                                    |
| CCC                      | VP135372,VP135373                            |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP135380                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

|    |            |             |            |                   |  |       |      |
|----|------------|-------------|------------|-------------------|--|-------|------|
| 19 | VSTDICV020 | ICVVN090425 | VN087731.D | 04 Sep 2025 18:28 |  | JC\MD | Ok,M |
|----|------------|-------------|------------|-------------------|--|-------|------|

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3017

**Test :** VOC-TCLVOA-10

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** Vn090425,

**Standard ID :**

VP134149,VP134151,VP134263,VP134691,VP134957,VP135059,VP135061,VP135123,VP135126,VP135129,VP135131,VP135371,VP135372,VP135373,VP135374,VP135375,VP135376,VP135377,VP135378,VP135379,VP135380,

**Chemical ID :**

V13391,V13450,V13583,V13584,V13823,V14129,V14182,V14444,V14446,V14507,V14508,V14529,V14530,V14580,V14625,V14629,V14636,V14637,V14638,V14639,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14885,V14921,V14929,V14974,V14996,V15057,V15058,V15059,V15062,V15063,W3112,

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>     | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>                           |
|------------------|-----------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|------------------------------------------------|
| 1810             | 8260 Working<br>Std(2-CVE)-800ppm | <a href="#">VP134149</a> | 06/06/2025       | 12/06/2025             | Semsettin<br>Yesilyurt | None           | None             | <div>Mahesh Dadoda</div> <div>06/10/2025</div> |

**FROM** 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final  
Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>                           |
|------------------|--------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|------------------------------------------------|
| 1812             | 8260 Working Std(2-CVE)-100ppm | <a href="#">VP134151</a> | 06/06/2025       | 12/06/2025             | Semsettin Yesilyurt | None           | None             | <div>Mahesh Dadoda</div> <div>06/10/2025</div> |

**FROM** 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                        | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 1817             | 8260 Working Std(2-CVE)-SS, 800ppm | <a href="#">VP134263</a> | 06/11/2025       | 11/12/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                    |                          |                  |                        |                     |                |                  | 06/12/2025           |

**FROM** 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 466              | 624 Internal Standard and Surrogate Mix, 150PPM | <a href="#">VP134691</a> | 07/09/2025       | 12/06/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                 |                          |                  |                        |                     |                |                  | 07/15/2025           |

**FROM** 0.15000ml of V14580 + 0.15000ml of V14885 + 24.70000ml of V14629 = Final Quantity: 25.000 ml



## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 218              | BFB, 25PPM  | <a href="#">VP134957</a> | 08/01/2025       | 11/22/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |             |                          |                  |                        |                     |                |                  | 08/06/2025           |

**FROM** 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                           | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 257              | 8260 Calibration Working STD Mix-First source, 160PPM | <a href="#">VP135059</a> | 08/11/2025       | 09/19/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                       |                          |                  |                        |                     |                |                  | 08/19/2025           |

**FROM** 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                             | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>     | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|---------------------------------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 245              | 8260 Calibration Working STD<br>Mix-First source, 20PPM | <a href="#">VP135061</a> | 08/11/2025       | 09/19/2025             | Semsettin<br>Yesilyurt | None           | None             | Maresh Dadoda<br><br>08/19/2025 |

**FROM** 17.50000ml of V14625 + 2.50000ml of VP135059 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                               | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>     | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|-----------------------------------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 259              | 8260 Calibration Working STD<br>Mix-Second source, 160PPM | <a href="#">VP135123</a> | 08/14/2025       | 09/30/2025             | Semsettin<br>Yesilyurt | None           | None             | Maresh Dadoda<br><br>08/19/2025 |

**FROM** 0.16000ml of V13450 + 0.40000ml of V14996 + 0.80000ml of V13823 + 0.80000ml of V14129 + 0.80000ml of V14182 +  
0.80000ml of V14795 + 0.80000ml of V14974 + 4.24000ml of V14625 = Final Quantity: 10.000 ml



| <u>Recipe ID</u>   | <u>NAME</u>                                                                                 | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>     | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|--------------------|---------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 263                | 8260 Working STD<br>(Acrolein)-Second source,<br>800PPM                                     | <a href="#">VP135126</a> | 08/14/2025       | 09/12/2025             | Semsettin<br>Yesilyurt | None           | None             | Mahesh Dadoda<br><br>08/19/2025 |
| <b><u>FROM</u></b> | 0.60000ml of V15063 + 1.00000ml of V15062 + 8.40000ml of V14625 = Final Quantity: 10.000 ml |                          |                  |                        |                        |                |                  |                                 |

| <u>Recipe ID</u>                                                                                                                      | <u>NAME</u>                                       | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|-----------------------------|
| 51                                                                                                                                    | 8260 Working STD (Acrolein) -first source, 800PPM | <a href="#">VP135129</a> | 08/14/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Mahesh Dadoda<br>08/19/2025 |
| <b><u>FROM</u></b> 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = Final Quantity: 25.000 ml |                                                   |                          |                  |                        |                     |                |                  |                             |

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 180              | 8260 Working STD (Acrolein)-First source, 100PPM | <a href="#">VP135131</a> | 08/14/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                  |                          |                  |                        |                     |                |                  | 08/19/2025           |

**FROM** 17.50000ml of V14625 + 2.50000ml of VP135129 = Final Quantity: 20.000 ml

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 589              | BFB TUNE CHECK | <a href="#">VP135371</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                |                          |                  |                        |                    |                |                  | 09/06/2025           |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 645              | 20 PPB CCC, 624                                                                                                                                 | <a href="#">VP135372</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Mahesh Dadoda<br>09/06/2025 |
| <u>FROM</u>      | 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml |                          |                  |                        |                    |                |                  |                             |

| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 645              | 20 PPB CCC, 624                                                                                                                                 | <a href="#">VP135373</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Mahesh Dadoda<br>09/06/2025 |
| <u>FROM</u>      | 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml |                          |                  |                        |                    |                |                  |                             |

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 589              | BFB TUNE CHECK | <a href="#">VP135374</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                |                          |                  |                        |                    |                |                  | 09/06/2025           |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

| <u>Recipe ID</u> | <u>NAME</u>    | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 637              | 5 PPB ICC, 624 | <a href="#">VP135375</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                |                          |                  |                        |                    |                |                  | 09/06/2025           |

**FROM** 39.96200ml of W3112 + 0.00800ml of VP134691 + 0.01000ml of VP134151 + 0.01000ml of VP135061 + 0.01000ml of VP135131 = Final Quantity: 40.000 ml

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 639              | 20 PPB ICC, 624                                                                                                                                 | <a href="#">VP135376</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Mahesh Dadoda<br>09/06/2025 |
| <u>FROM</u>      | 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml |                          |                  |                        |                    |                |                  |                             |

| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                     | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>        |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------|
| 640              | 50 PPB ICC, 624                                                                                                                                 | <a href="#">VP135377</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Mahesh Dadoda<br>09/06/2025 |
| <u>FROM</u>      | 39.95450ml of W3112 + 0.00800ml of VP134691 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml |                          |                  |                        |                    |                |                  |                             |

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 642              | 100 PPB ICC, 624 | <a href="#">VP135378</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                  |                          |                  |                        |                    |                |                  | 09/06/2025           |

**FROM** 39.91700ml of W3112 + 0.00800ml of VP134691 + 0.02500ml of VP134149 + 0.02500ml of VP135059 + 0.02500ml of VP135129 = Final Quantity: 40.000 ml

| <u>Recipe ID</u> | <u>NAME</u>      | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 643              | 150 PPB ICC, 624 | <a href="#">VP135379</a> | 09/04/2025       | 09/05/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                  |                          |                  |                        |                    |                |                  | 09/06/2025           |

**FROM** 39.87950ml of W3112 + 0.00800ml of VP134691 + 0.03750ml of VP134149 + 0.03750ml of VP135059 + 0.03750ml of VP135129 = Final Quantity: 40.000 ml



[illegible]

## 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 | A0191703 | 11/15/2025      | 05/15/2025 / SAM        | 01/23/2023 / SAM            | V13450         |

| Supplier                 | ItemCode / ItemName                         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95318 / 2-Chloroethyl Vinyl Ether (Min = 5) | 111722 | 11/17/2025      | 06/11/2025 / SAM        | 01/30/2023 / SAM            | V13583         |

| Supplier                 | ItemCode / ItemName                         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95318 / 2-Chloroethyl Vinyl Ether (Min = 5) | 111722 | 11/17/2025      | 06/11/2025 / SAM        | 01/30/2023 / SAM            | V13584         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0197644 | 02/14/2026      | 08/14/2025 / SAM        | 05/31/2023 / SAM            | V13823         |

| Supplier                 | ItemCode / ItemName                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 011624 | 02/14/2026      | 08/14/2025 / SAM        | 01/17/2024 / SAM            | V14129         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName                            | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021524 | 02/14/2026      | 08/14/2025 / SAM        | 02/20/2024 / SAM            | V14182         |

| Supplier | ItemCode / ItemName                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/30/2025      | 08/08/2025 / SAM        | 08/15/2024 / SAM            | V14444         |

| Supplier | ItemCode / ItemName                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/30/2025      | 08/08/2025 / SAM        | 08/15/2024 / SAM            | V14446         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 09/17/2024 / SAM            | V14507         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 09/17/2024 / SAM            | V14508         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 09/18/2024 / SAM            | V14529         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 02/08/2026      | 08/08/2025 / SAM        | 09/18/2024 / SAM            | V14530         |

| Supplier | ItemCode / ItemName                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4] | A0219012 | 01/02/2026      | 01/02/2025 / SAM        | 11/18/2024 / SAM            | V14580         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/29/2026      | 07/29/2025 / SAM        | 11/26/2024 / SAM            | V14625         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/09/2026      | 07/07/2025 / SAM        | 11/26/2024 / SAM            | V14629         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14636         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14637         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14638         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14639         |

| Supplier | ItemCode / ItemName                                                        | Lot #     | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 02/08/2026      | 08/08/2025 / SAM        | 12/17/2024 / SAM            | V14702         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 12/17/2024 / SAM            | V14705         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 12/17/2024 / SAM            | V14716         |

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 12/17/2024 / SAM            | V14745         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 02/08/2026      | 08/08/2025 / SAM        | 12/17/2024 / SAM            | V14751         |

| 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 | A0220563 | 12/23/2025      | 06/23/2025 / SAM        | 01/08/2025 / SAM            | V14795         |

LOTS

| 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 | A0220471 | 02/08/2026      | 08/08/2025 / SAM        | 01/08/2025 / SAM            | V14806         |

LOTS

| 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 | A0220471 | 02/08/2026      | 08/08/2025 / SAM        | 01/08/2025 / SAM            | V14807         |

LOTS

| Supplier | ItemCode / ItemName                                     | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0217535 | 11/12/2025      | 05/12/2025 / SAM        | 01/21/2025 / SAM            | V14843         |

| Supplier | ItemCode / ItemName                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3] | A0223136 | 03/12/2026      | 03/12/2025 / SAM        | 03/12/2025 / SAM            | V14885         |

## 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) | 24G0262002 | 11/12/2025      | 05/12/2025 / SAM        | 05/09/2025 / SAM            | V14921         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 12/06/2025      | 06/06/2025 / SAM        | 05/09/2025 / SAM            | V14929         |

| 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 | A0220531 | 02/14/2026      | 08/14/2025 / SAM        | 05/19/2025 / SAM            | V14974         |

| 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 | A0220242 | 01/25/2026      | 07/25/2025 / SAM        | 06/02/2023 / SAM            | V14996         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081325 | 09/13/2025      | 08/14/2025 / SAM        | 08/14/2025 / SAM            | V15057         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081325 | 09/13/2025      | 08/14/2025 / SAM        | 08/14/2025 / SAM            | V15058         |

## 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) | 081325 | 09/13/2025      | 08/14/2025 / SAM        | 08/14/2025 / SAM            | V15059         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081225 | 09/12/2025      | 08/14/2025 / SAM        | 08/14/2025 / SAM            | V15062         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081225 | 09/12/2025      | 08/14/2025 / SAM        | 08/14/2025 / SAM            | V15063         |

| 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 / lwona      | 07/03/2024 / lwona          | W3112          |



Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis



Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.5 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.2      |
| Titration 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



Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
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| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
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| Titration Base (μeq/g)                                  | ≤ 0.10        | 0.01     |
| Water (by KF, coulometric)                              | ≤ 0.08 %      | < 0.01 % |
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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

Ken Koehnlein  
Sr. Manager, Quality Assurance



**CERTIFIED WEIGHT REPORT**

Part Number: **95319**  
Lot Number: **011624**  
Description: **Revised Additions Mix**

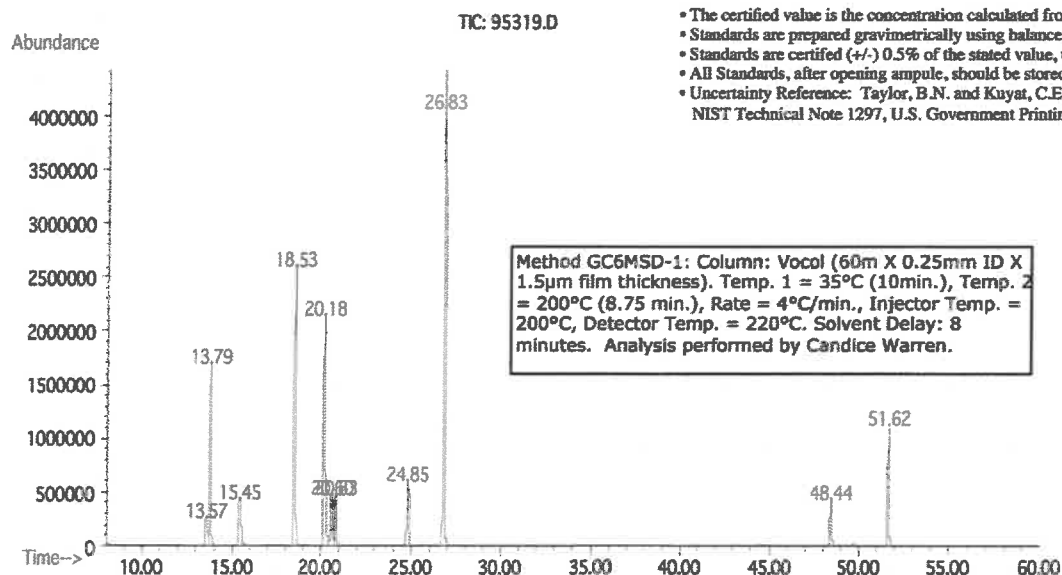
Solvent(s): **Methanol**  
Lot#: **EH471-US**

Expiration Date: **011627**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **Varied**  
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0**  
5E-05 Balance Uncertainty  
0.021 Flask Uncertainty

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 011624 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 011624 |
| 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<br>(Solvent Safety Info. On Attached pg.) |                           |                    |
|-----------------------------------|------|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|-----------------------------------------------------------|---------------------------|--------------------|
|                                   |      |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                      | OSHA PEL (TWA)            | LD50               |
| 1. Acrylonitrile                  | 7    | 4718CK     | 10000                | 99         | 0.2                | 1.01035          | 1.01080          | 10004.4             | 40.6                               | 107-13-1                                                  | N/A                       | ori-rat 78 mg/kg   |
| 2. 1-Chlorobutane                 | 1072 | MKCM5711   | 2000                 | 99.99      | 0.2                | 0.20007          | 0.20035          | 2002.8              | 8.1                                | 109-69-3                                                  | N/A                       | ori-rat 2670mg/kg  |
| 3. Cyclohexane                    | 1023 | 28930      | 2000                 | 99         | 0.2                | 0.20207          | 0.20222          | 2001.5              | 8.2                                | 110-82-7                                                  | 300 ppm (1050mg/m3/8H)    | ori-rat 12705mg/kg |
| 4. Di-isopropyl ether (DIPE)      | 987  | 00412MX    | 2000                 | 99         | 0.2                | 0.20207          | 0.20227          | 2002.0              | 8.2                                | 108-20-3                                                  | 500 ppm (2100mg/m3/8H)    | ori-rat 8470mg/kg  |
| 5. 1,4-Dioxane                    | 373  | 03853KE    | 40000                | 99         | 0.2                | 4.04142          | 4.04213          | 40007.0             | 162.5                              | 123-91-1                                                  | 25 ppm (90mg/m3/8H)(skin) | ori-mus 5700mg/kg  |
| 6. Hexachloroethane               | 199  | 12604HBV   | 2000                 | 99         | 0.2                | 0.20207          | 0.20221          | 2001.4              | 8.2                                | 67-72-1                                                   | 1 ppm (10mg/m3/8H)(skin)  | ori-gpg 4970mg/kg  |
| 7. Methylcyclohexane              | 1627 | SHBG0199V  | 2000                 | 99         | 0.2                | 0.20207          | 0.20230          | 2002.3              | 8.2                                | 108-87-2                                                  | N/A                       | ori-mus 2250mg/kg  |
| 8. Methyl tert-butyl ether (MTBE) | 209  | 21880      | 2000                 | 99         | 0.2                | 0.20207          | 0.20227          | 2002.0              | 8.2                                | 1634-04-4                                                 | N/A                       | ori-rat 4g/kg      |
| 9. Propionitrile                  | 349  | 1395468    | 20000                | 99         | 0.2                | 2.02071          | 2.02150          | 20007.8             | 81.3                               | 107-12-0                                                  | N/A                       | ori-rat 39mg/kg    |
| 10. Tetrahydrofuran               | 380  | SHBH8330   | 10000                | 99.9       | 0.2                | 1.00125          | 1.00200          | 10007.5             | 40.3                               | 109-99-9                                                  | 20 ppm (590mg/m3/8H)      | ori-rat 1650mg/kg  |
| 11. 1,2,3,4-Tetramethylbenzene    | 491  | AP01       | 2000                 | 93         | 0.2                | 0.21511          | 0.21522          | 2001.0              | 8.7                                | 488-23-3                                                  | N/A                       | ori-rat 6408mg/kg  |



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

| Name                           | MSD RT (min.) |
|--------------------------------|---------------|
| Methyl tert-butyl ether (MTBE) | 13.56         |
| Acrylonitrile                  | 13.79         |
| Di-isopropyl ether             | 15.44         |
| Propionitrile                  | 18.53         |
| Tetrahydrofuran                | 20.17         |
| Cyclohexane                    | 20.58         |
| 1-Chlorobutane                 | 20.83         |
| Methylcyclohexane              | 24.84         |
| 1,4-Dioxane                    | 26.84         |
| Hexachloroethane               | 48.44         |
| 1,2,3,4-Tetramethylbenzene     | 51.62         |



**CERTIFIED WEIGHT REPORT**

Part Number: **95317**  
Lot Number: **021524**  
Description: **Universal VOA Megamix**  
69 components  
Expiration Date: 021527  
Recommended Storage: Freezer (0 °C)  
Nominal Concentration (µg/mL): 2000  
NIST Test ID#: BUTB

Solvent(s): **Methanol**  
Lot#: **EG359-USQ12**

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 021524 |
| Formulated By: | Mario Luis      | DATE   |
|                |                 | 021524 |
| Reviewed By:   | Pedro L. Rentes | DATE   |

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

|                                     |             |              |        |           |               |               |        |             |              |           |           |               |               | SDS Information                        |                              |                   |
|-------------------------------------|-------------|--------------|--------|-----------|---------------|---------------|--------|-------------|--------------|-----------|-----------|---------------|---------------|----------------------------------------|------------------------------|-------------------|
|                                     |             |              |        |           |               |               |        |             |              |           |           |               |               | (Solvent Safety Info. On Attached pg.) |                              |                   |
| Compound                            | (RM#)       | Lot          | Dr.    | Initial   | Initial       | Nominal       | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual        | Expanded      | CAS#                                   | OSHA PEL (TWA)               | LD50              |
|                                     | Part Number | Number       | Factor | Vol. (mL) | Conc. (µg/mL) | Conc. (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc. (µg/mL) | (+/-) (µg/mL) |                                        |                              |                   |
| 1. Acetonitrile                     | (0324)      | 021644       | NA     | NA        | NA            | 2000          | 99.99  | 0.2         | NA           | 0.20007   | 0.20022   | 2001.5        | 8.1           | 75-05-8                                | 40 ppm (70mg/m3/8h)          | or-rat 2450mg/kg  |
| 2. Allyl chloride (3-Chloropropene) | (0325)      | 102398       | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20222   | 2001.5        | 8.2           | 107-05-1                               | 1 ppm (3mg/m3/8h)            | or-rat 700mg/kg   |
| 3. Carbon disulfide                 | (0060)      | MKCR8581     | NA     | NA        | NA            | 2000          | 99.99  | 0.2         | NA           | 0.20007   | 0.20020   | 2001.3        | 8.1           | 75-15-0                                | 4 ppm (12mg/m3) (skin)       | or-rat 1200mg/kg  |
| 4. cis-1,4-Dichloro-2-butene        | (1196)      | 14718EF      | NA     | NA        | NA            | 2000          | 95     | 0.2         | NA           | 0.21058   | 0.21080   | 2000.2        | 8.5           | 1478-11-5                              | N/A                          | N/A               |
| 5. trans-1,4-Dichloro-2-butene      | (0466)      | MKBP8041V    | NA     | NA        | NA            | 2000          | 96.5   | 0.2         | NA           | 0.20731   | 0.20734   | 2000.3        | 8.4           | 110-57-5                               | N/A                          | N/A               |
| 6. Diethyl ether                    | (0153)      | JK18CASA000K | NA     | NA        | NA            | 2000          | 99.9   | 0.2         | NA           | 0.20025   | 0.20042   | 2001.7        | 8.1           | 60-29-7                                | N/A                          | N/A               |
| 7. Ethyl methacrylate               | (0381)      | 061826PX     | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20231   | 2002.4        | 8.2           | 97-83-2                                | N/A                          | or-rat 14800mg/kg |
| 8. Iodomethane                      | (0489)      | SHBF8716V    | NA     | NA        | NA            | 2000          | 99.5   | 0.2         | NA           | 0.20106   | 0.20118   | 2001.2        | 8.1           | 74-88-4                                | 5 ppm (28mg/m3/8h) (skin)    | or-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)         | or-rat 2450mg/kg  |
| 10. Methacrylonitrile               | (0442)      | 00427ET      | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20209   | 2000.2        | 8.2           | 128-98-7                               | 1 ppm (3mg/m3/8h) (skin)     | or-rat 120mg/kg   |
| 11. Methyl acrylate                 | (1075)      | SHBK0679     | NA     | NA        | NA            | 2000          | 99.9   | 0.2         | NA           | 0.20025   | 0.20042   | 2001.7        | 8.1           | 96-33-3                                | 10 ppm (35mg/m3/8h) (skin)   | or-rat 277mg/kg   |
| 12. Methyl methacrylate             | (0404)      | MKBW5137V    | NA     | NA        | NA            | 2000          | 99.9   | 0.2         | NA           | 0.20025   | 0.20030   | 2000.5        | 8.1           | 80-62-6                                | 100 ppm (410mg/m3/8h)        | or-rat 787mg/kg   |
| 13. Nitrobenzene                    | (0228)      | 01213TV      | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20230   | 2002.3        | 8.2           | 98-95-3                                | 1 ppm (5mg/m3/8h) (skin)     | or-rat 780mg/kg   |
| 14. 2-Nitropropane                  | (0461)      | 14002JX      | NA     | NA        | NA            | 2000          | 97.3   | 0.2         | NA           | 0.20560   | 0.20670   | 2001.0        | 8.3           | 79-46-9                                | 10 ppm (35mg/m3/8h)          | or-rat 720mg/kg   |
| 15. Pentachloroethane               | (0450)      | HGA01        | NA     | NA        | NA            | 2000          | 98     | 0.2         | NA           | 0.20413   | 0.20415   | 2000.2        | 8.3           | 78-01-7                                | N/A                          | N/A               |
| 16. 1,1,2-Trichlorotrifluoroethane  | (0474)      | 18930        | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20210   | 2000.3        | 8.2           | 78-13-1                                | 1000 ppm (7600mg/m3/8h)      | or-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                          | or-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                          | or-rat 848mg/kg   |
| 19. cis-1,2-Dichloroethane          | 35171       | 101623       | 0.05   | 5.00      | 40003.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9          | 156-60-2                               | N/A                          | N/A               |
| 20. trans-1,2-Dichloroethane        | 35171       | 101623       | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6        | 23.0          | 156-60-5                               | N/A                          | or-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                      | or-rat 800mg/kg   |
| 22. 1,1-Dichloroethane              | 32251       | 102023       | 0.10   | 10.00     | 20001.6       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.7        | 20.4          | 75-36-4                                | 1 ppm (4mg/m3/8h)            | or-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)      | or-rat 930mg/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 (12.8mg/m3/8h)         | or-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)       | or-rat 900mg/kg   |
| 26. Dibromomethane                  | 95321       | 020724       | 0.10   | 10.00     | 20002.9       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5          | 74-06-3                                | N/A                          | or-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                      | or-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          | 584-20-7                               | 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) | or-rat 262mg/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)       | or-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane     | 35161       | 112322       | 0.05   | 5.00      | 40018.5       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.3        | 22.9          | 96-12-8                                | 0.001 ppm                    | or-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          | 108-93-4                               | 20 ppm (8h)                  | or-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)                  | or-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)         | or-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                          | ure-mus 3600mg/kg |
| 36. 1,1-Dichloropropane             | 35161       | 112322       | 0.05   | 5.00      | 40012.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.1        | 29.7          | 563-56-6                               | N/A                          | N/A               |
| 37. cis-1,3-Dichloropropene         | 35161       | 112322       | 0.05   | 5.00      | 40010.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.0        | 23.0          | 10061-01-5                             | N/A                          | N/A               |
| 38. trans-1,3-Dichloropropene       | 35161       | 112322       | 0.05   | 5.00      | 40017.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.4        | 23.0          | 10061-02-6                             | N/A                          | N/A               |
| 39. Hexachloro-1,3-butadiene        | 35161       | 112322       | 0.05   | 5.00      | 40021.9       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.6        | 29.7          | 87-68-3                                | 0.02 ppm (0.24mg/m3/8h)      | or-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                          | or-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)    | or-rat 800mg/kg   |
| 42. 1,1,2-Trichloroethane           | 35161       | 112322       | 0.05   | 5.00      | 40006.6       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 23.0          | 79-00-5                                | 10 ppm (45mg/m3/8h) (skin)   | or-rat 836mg/kg   |
| 43. Trichloroethane                 | 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)         | or-mus 2400mg/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)          | or-rat 149.8mg/kg |
| 45. Benzene                         | 35162       | 050823       | 0.05   | 5.00      | 40005.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9          | 71-43-2                                | 1 ppm                        | or-rat 4694mg/kg  |
| 46. Bromobenzene                    | 35162       | 050823       | 0.05   | 5.00      | 40006.9       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9          | 108-88-1                               | N/A                          | or-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)        | or-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          | 99-87-8                                | N/A                          | or-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)          | or-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                      | or-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                      | or-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 1300mg/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)         | or-rat 750mg/kg   |
| 55. 1,2,4-Trimethylbenzene          | 35162       | 050823       | 0.05   | 5.00      | 40001.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9          | 95-63-6                                | N/A                          | or-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                          | or-rat 5000mg/kg  |
| 57. m-Xylene                        | 35162       | 050823       | 0.05   | 5.00      | 40005.6       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9          | 108-38-3                               | 100 ppm (435mg/m3/8h)        | or-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          | 135-98-6                               | N/A                          | or-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)         | or-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          | 95-49-5                                | 50 ppm (250mg/m3/8h)         | or-rat 3900mg/kg  |
| 62. 4-Chlorotoluene                 | 35163       | 101923       | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        |           |               |               |                                        |                              |                   |

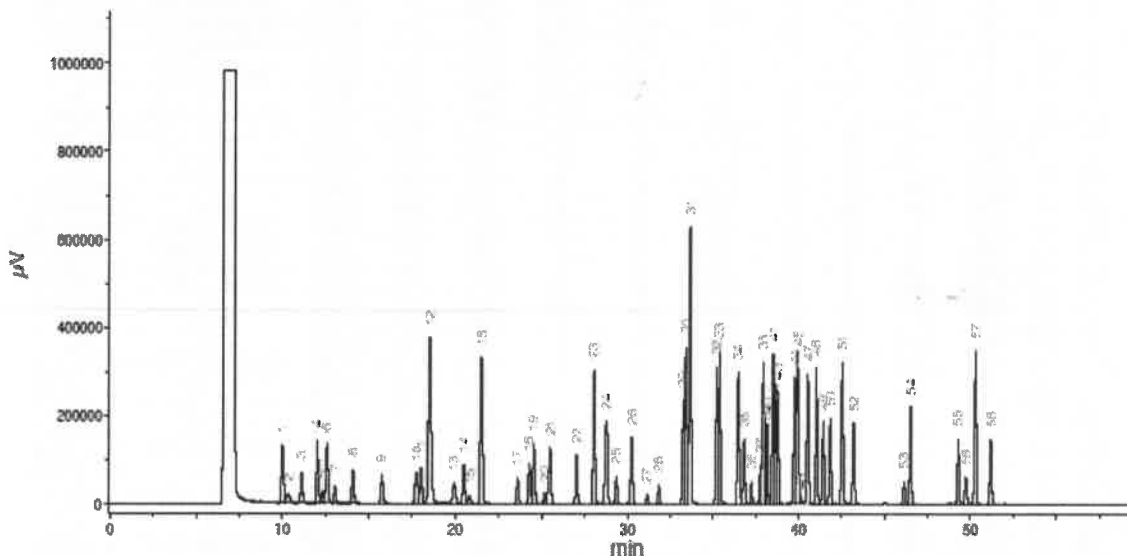


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.  
Created: Sat, Feb 17, 2024 at 10:04:27 AM.  
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".  
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren  
Column ID SPB-Vocool 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., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.  
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),  
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.  
FID Signal = Edaq Channel 1  
Standard injection = 0.5µL, Range=3



| Peak # | Name                                         | FID RT (min.) |
|--------|----------------------------------------------|---------------|
| 1      | Ether                                        | 9.97          |
| 2      | 1,1,2-Trichloro-1,2,2-trifluoroethane        | 10.33         |
| 3      | 1,1-Dichloroethene                           | 11.10         |
| 4      | Acetonitrile                                 | 12.00         |
| 5      | Iodomethane                                  | 12.31         |
| 6      | Allyl chloride                               | 12.56         |
| 7      | Carbon disulfide/Methylene chloride          | 13.04         |
| 8      | trans-1,2-Dichloroethene                     | 14.07         |
| 9      | 1,1-Dichloroethane                           | 15.34         |
| 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-Dichloropropane                          | 20.46         |
| 15     | Carbon tetrachloride                         | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                   | 21.48         |
| 17     | Trichloroethene                              | 22.58         |
| 18     | 1,2-Dichloropropane                          | 24.26         |
| 19     | Methyl methacrylate                          | 24.52         |
| 20     | Bromodichloromethane                         | 25.13         |
| 21     | Dibromomethane/2-Nitropropane                | 25.46         |
| 22     | cis-1,2-Dichloropropane                      | 27.02         |
| 23     | Toluene                                      | 28.05         |
| 24     | Ethyl methacrylate/trans-1,3-Dichloropropane | 28.73         |
| 25     | 1,1,2-Trichloroethane                        | 29.34         |
| 26     | Tetrachloroethene/1,3-Dichloropropane        | 30.24         |
| 27     | Dibromochloromethane                         | 31.18         |
| 28     | 1,2-Dibromomethane                           | 31.84         |
| 29     | Chlorobenzene                                | 33.39         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane       | 33.40         |
| 31     | m-Xylene/p-Xylene                            | 33.66         |
| 32     | o-Xylene                                     | 33.72         |
| 33     | Styrene                                      | 35.39         |
| 34     | Isopropylbenzene/Bromoform                   | 36.48         |
| 35     | cis-1,4-Dichloro-2-butene                    | 36.80         |
| 36     | 1,1,2,2-Tetrachloroethane                    | 37.23         |
| 37     | 1,2,3-Trichloropropane                       | 37.77         |
| 38     | n-Propylbenzene                              | 37.92         |
| 39     | trans-1,4-Dichloro-2-butene                  | 38.05         |
| 40     | Bromobenzene                                 | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                       | 38.50         |
| 42     | 2-Chlorotoluene                              | 38.62         |
| 43     | 4-Chlorotoluene                              | 38.77         |
| 44     | tert-Butylbenzene                            | 39.76         |
| 45     | 1,2,4-Trimethylbenzene                       | 39.91         |
| 46     | Pentachloroethane                            | 40.17         |
| 47     | sec-Butylbenzene                             | 40.32         |
| 48     | p-Isopropyltoluene                           | 41.02         |
| 49     | 1,3-Dichlorobenzene                          | 41.42         |
| 50     | 1,4-Dichlorobenzene                          | 41.83         |
| 51     | n-Butylbenzene                               | 42.52         |
| 52     | 1,2-Dichlorobenzene                          | 43.10         |
| 53     | 1,2-Dibromo-3-chloropropane                  | 46.12         |
| 54     | Nitrobenzene                                 | 46.48         |
| 55     | 1,2,4-Trichlorobenzene                       | 49.26         |
| 56     | Hexachlorobutadiene                          | 49.72         |
| 57     | Naphthalene                                  | 50.26         |
| 58     | 1,2,3-Trichlorobenzene                       | 51.16         |



Ree 03117/24

## CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

| Compound                            | (KME)       | Lot         | DIL    | Initial   | Initial      | Nominal      | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual       | Expanded    | SDS Information                        |                             |                   |
|-------------------------------------|-------------|-------------|--------|-----------|--------------|--------------|--------|-------------|--------------|-----------|-----------|--------------|-------------|----------------------------------------|-----------------------------|-------------------|
|                                     |             |             |        |           |              |              |        |             |              |           |           |              |             | (Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA)              | LD50              |
|                                     | Part Number | Number      | Factor | Vol. (mL) | Conc.(µg/mL) | Conc (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc (µg/mL) | Uncertainty | CASE                                   |                             |                   |
| 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)         | or-rat 2450mg/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)           | or-rat 700mg/kg   |
| 3. Carbon disulfide                 | (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)      | or-rat 1200mg/kg  |
| 4. cis-1,4-Dichloro-2-butene        | (1196)      | 14718EF     | NA     | NA        | NA           | 2000         | 95     | 0.2         | NA           | 0.21056   | 0.21069   | 2001.1       | 8.5         | 1478-11-5                              | NA                          | N/A               |
| 5. trans-1,4-Dichloro-2-butene      | (0486)      | MKBP6041V   | NA     | NA        | NA           | 2000         | 96.5   | 0.2         | NA           | 0.20731   | 0.20746   | 2001.7       | 8.4         | 110-57-6                               | NA                          | N/A               |
| 6. Diethyl ether                    | (0153)      | IK18CAS000C | NA     | NA        | NA           | 2000         | 99.9   | 0.2         | NA           | 0.20025   | 0.20040   | 2001.5       | 8.1         | 60-29-7                                | NA                          | N/A               |
| 7. Ethyl methacrylate               | (0381)      | 06128PX     | NA     | NA        | NA           | 2000         | 99     | 0.2         | NA           | 0.20207   | 0.20230   | 2002.3       | 8.2         | 97-63-2                                | NA                          | or-rat 14800mg/kg |
| 8. Iodomethane                      | (0489)      | SHBF8718V   | NA     | NA        | NA           | 2000         | 99.5   | 0.2         | NA           | 0.20106   | 0.20121   | 2001.5       | 8.2         | 74-88-4                                | 5 ppm(28mg/m3/8H)(skin)     | or-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)        | or-rat 2460mg/kg  |
| 10. Methacrylonitrile               | (0442)      | 00427ET     | NA     | NA        | NA           | 2000         | 99     | 0.2         | NA           | 0.20207   | 0.20221   | 2001.4       | 8.2         | 128-98-7                               | 1 ppm (3mg/m3/8H)(skin)     | or-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)    | or-rat 277mg/kg   |
| 12. Methyl methacrylate             | (0404)      | MKGW6137V   | 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)       | or-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)     | or-rat 780mg/kg   |
| 14. 2-Nitropropane                  | (0461)      | 14002JK     | NA     | NA        | NA           | 2000         | 97.3   | 0.2         | NA           | 0.20560   | 0.20577   | 2001.6       | 8.3         | 78-46-9                                | 10 ppm (30mg/m3/8H)         | or-rat 720mg/kg   |
| 15. Perchloroethane                 | (0460)      | HGA01       | NA     | NA        | NA           | 2000         | 98     | 0.2         | NA           | 0.20413   | 0.20430   | 2001.6       | 8.3         | 78-01-7                                | NA                          | N/A               |
| 16. 1,1,2-Trichlorotrifluoroethane  | (0474)      | 18930       | NA     | NA        | NA           | 2000         | 99     | 0.2         | NA           | 0.20207   | 0.20225   | 2001.8       | 8.2         | 76-13-1                                | 1000 ppm (7600mg/m3/8H)     | or-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                                | NA                          | or-rat 915mg/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                               | NA                          | or-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                               | NA                          | 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                               | NA                          | N/A               |
| 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                     | or-rat 1235mg/kg  |
| 22. 1,1-Dichloroethane              | 32261       | 102023      | 0.10   | 10.00     | 20001.6      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.5        | 78-25-2                                | 0.5 ppm (5mg/m3) (skin)     | or-rat 933mg/kg   |
| 23. Bromoform                       | 95321       | 020724      | 0.10   | 10.00     | 20003.2      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.4        | 56-23-5                                | 2 ppm (12.6mg/m3/8H)        | or-rat 2350mg/kg  |
| 24. Carbon tetrachloride            | 95321       | 020724      | 0.10   | 10.00     | 20024.0      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 2001.3       | 20.5        | 67-68-3                                | 60 ppm (240mg/m3) (CL)      | or-rat 908mg/kg   |
| 25. Chloroform                      | 95321       | 020724      | 0.10   | 10.00     | 20002.9      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.5        | 74-95-3                                | 100 ppm                     | or-rat 725mg/kg   |
| 26. Dibromomethane                  | 95321       | 020724      | 0.10   | 10.00     | 20003.4      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.4        | 594-20-7                               | NA                          | N/A               |
| 27. 1,1-Dichloroethane              | 95321       | 020724      | 0.10   | 10.00     | 20003.4      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 2019.8       | 20.8        | 127-18-4                               | 25 ppm (170mg/m3/8H)(final) | or-rat 2629mg/kg  |
| 28. 2,2-Dichloropropane             | 95321       | 020724      | 0.10   | 10.00     | 20003.4      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.8       | 20.5        | 71-55-6                                | 350 ppm (1900mg/m3/8H)      | or-rat 10300mg/kg |
| 29. Trichloroethene                 | 95321       | 020724      | 0.10   | 10.00     | 20201.1      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 2000.3       | 22.9        | 86-12-8                                | 0.001 ppm                   | or-rat 170mg/kg   |
| 30. 1,1,1-Trichloroethane           | 95321       | 020724      | 0.10   | 10.00     | 20003.0      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 2000.7       | 22.9        | 106-93-4                               | 20 ppm (8H)                 | or-rat 108mg/kg   |
| 31. 1,2-Dibromo-3-chloropropane     | 35161       | 112322      | 0.05   | 5.00      | 40018.5      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.4       | 22.9        | 107-06-2                               | 50 ppm (8H)                 | or-rat 670mg/kg   |
| 32. 1,2-Dibromoethane               | 35161       | 112322      | 0.05   | 5.00      | 40024.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2002.0       | 22.9        | 78-87-5                                | 75 ppm (350mg/m3/8H)        | or-rat 1847mg/kg  |
| 33. 1,2-Dichloroethane              | 35161       | 112322      | 0.05   | 5.00      | 40018.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 142-28-9                               | NA                          | or-rat 3600mg/kg  |
| 34. 1,2-Dichloropropane             | 35161       | 112322      | 0.05   | 5.00      | 40051.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.0       | 23.0        | 10061-01-5                             | NA                          | N/A               |
| 35. 1,3-Dichloropropane             | 35161       | 112322      | 0.05   | 5.00      | 40005.9      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.4       | 23.0        | 10061-02-6                             | NA                          | N/A               |
| 36. 1,1-Dichloropropene             | 35161       | 112322      | 0.05   | 5.00      | 40012.1      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.6       | 29.7        | 87-68-3                                | 0.02 ppm (0.24mg/m3/8H)     | or-rat 82mg/kg    |
| 37. cis-1,3-Dichloropropene         | 35161       | 112322      | 0.05   | 5.00      | 40010.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.1       | 22.9        | 830-20-6                               | NA                          | or-rat 670mg/kg   |
| 38. trans-1,3-Dichloropropene       | 35161       | 112322      | 0.05   | 5.00      | 40017.6      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.9       | 22.9        | 79-34-5                                | 5 ppm (35mg/m3/8H)(skin)    | or-rat 800mg/kg   |
| 39. Hexachloro-1,3-butadiene        | 35161       | 112322      | 0.05   | 5.00      | 40021.9      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 23.0        | 79-00-5                                | 10 ppm (45mg/m3/8H)(skin)   | or-rat 936mg/kg   |
| 40. 1,1,1,2-Tetrachloroethane       | 35161       | 112322      | 0.05   | 5.00      | 40011.9      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 2000.9       | 22.9        | 79-01-6                                | 50 ppm (270mg/m3/8H)        | or-mus 2402mg/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        | 96-18-4                                | 10 ppm (60mg/m3/8H)         | or-rat 149.8mg/kg |
| 42. 1,1,2-Trichloroethane           | 35161       | 112322      | 0.05   | 5.00      | 40006.6      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 108-88-1                               | 1 ppm                       | or-rat 4894mg/kg  |
| 43. Trichloroethene                 | 35161       | 112322      | 0.05   | 5.00      | 40029.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 104-51-8                               | NA                          | or-rat 2699mg/kg  |
| 44. 1,2,3-Trichloropropane          | 35161       | 112322      | 0.05   | 5.00      | 40007.5      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 100-41-4                               | 100 ppm (435mg/m3/8H)       | or-rat >2000mg/kg |
| 45. Benzene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 99-87-6                                | NA                          | or-rat 4750mg/kg  |
| 46. Bromobenzene                    | 35162       | 050823      | 0.05   | 5.00      | 40006.9      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 91-20-3                                | 10 ppm (50mg/m3/8H)         | or-rat 490mg/kg   |
| 47. n-Butyl benzene                 | 35162       | 050823      | 0.05   | 5.00      | 40003.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 100-42-5                               | 100 ppm                     | or-rat 5000mg/kg  |
| 48. Ethyl benzene                   | 35162       | 050823      | 0.05   | 5.00      | 40005.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 108-88-3                               | 200 ppm                     | or-rat 5000mg/kg  |
| 49. p-Isopropyl toluene             | 35162       | 050823      | 0.05   | 5.00      | 40006.2      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 87-81-6                                | NA                          | or-rat 1390mg/kg  |
| 50. Naphthalene                     | 35162       | 050823      | 0.05   | 5.00      | 40005.2      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 120-82-1                               | 5 ppm (CL) (40mg/m3)        | or-rat 756mg/kg   |
| 51. Styrene                         | 35162       | 050823      | 0.05   | 5.00      | 40004.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 95-63-6                                | NA                          | or-rat 5g/kg      |
| 52. Toluene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-87-8                               | NA                          | or-rat 5000mg/kg  |
| 53. 1,2,3-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40003.1      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 108-38-3                               | 100 ppm (435mg/m3/8H)       | or-rat 5g/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        | 96-06-6                                | NA                          | N/A               |
| 55. 1,2,4-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40001.6      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 23.0        | 135-98-6                               | NA                          | or-rat 2240mg/kg  |
| 56. 1,3,5-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.7      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 108-90-7                               | 75 ppm (350mg/m3/8H)        | or-rat 2290mg/kg  |
| 57. m-Xylene                        | 35162       | 050823      | 0.05   | 5.00      | 40005.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.5       | 22.9        | 95-49-8                                | 50 ppm (250mg/m3/8H)        | or-rat 3900mg/kg  |
| 58. tert-Butyl benzene              | 35163       | 101923      | 0.05   | 5.00      | 40001.2      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 106-43-4                               | NA                          | or-rat 2100mg/kg  |
| 59. sec-Butyl benzene               | 35163       | 101923      | 0.05   | 5.00      | 40002.4      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 95-50-1                                | 50 ppm (300mg/m3) (CL)      | or-rat 500mg/kg   |
| 60. Chlorobenzene                   | 35163       | 101923      | 0.05   | 5.00      | 40003.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 23.0        | 541-73-1                               | NA                          | or-mus 1062mg/kg  |
| 61. 2-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 23.0        | 95-49-8                                | 50 ppm (300mg/m3) (CL)      | or-rat 500mg/kg   |
| 62. 4-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 23.0        | 541-73-1                               | NA                          | or-mus 1062mg/kg  |
| 63. 1,2-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40003.3      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 22.9        | 106-46-7                               | 75 ppm (450mg/m3/8H)        | or-rat 900mg/kg   |
| 64. 1,3-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40003.3      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.5       | 22.9        | 9                                      |                             |                   |

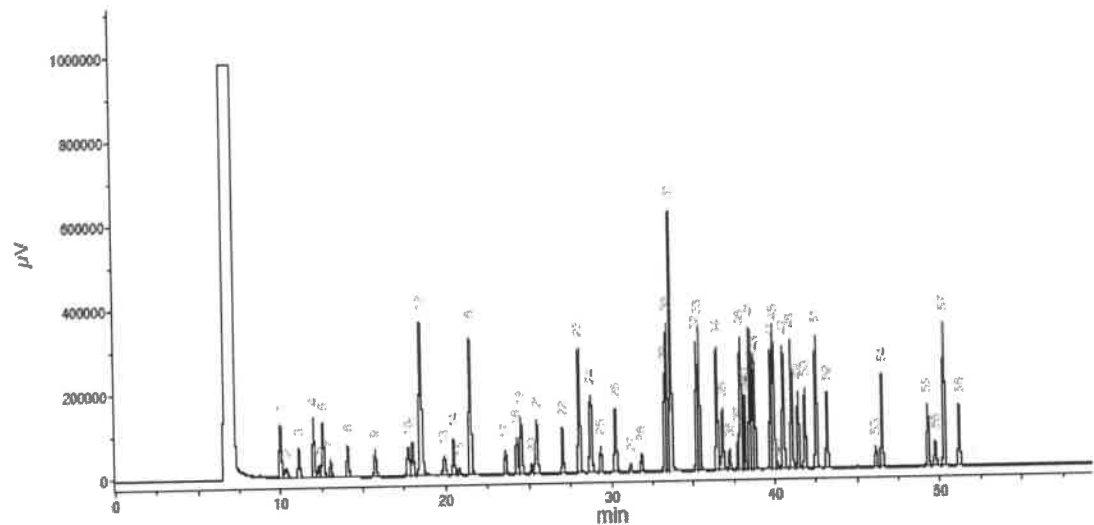


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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., Hydrogen(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          | 10.53         |
| 3      | 1,1-Dichloroethane                             | 11.10         |
| 4      | Acetonitrile                                   | 12.60         |
| 5      | Iodomethane                                    | 12.91         |
| 6      | Allyl chloride                                 | 12.96         |
| 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     | Methoxyvinyltoluene/Methyl acrylate/Chloroform | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane                | 18.91         |
| 14     | 1,1-Dichloropropane                            | 20.46         |
| 15     | Carbon tetrachloride                           | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                     | 21.48         |
| 17     | Trichloroethene                                | 23.88         |
| 18     | 1,2-Dichloropropane                            | 24.52         |
| 19     | Methyl methacrylate                            | 25.13         |
| 20     | Bromochloropropane                             | 25.46         |
| 21     | Dibromomethane/2,2-Dichloropropane             | 27.07         |
| 22     | cis-1,2-Dichloroethene                         | 28.03         |
| 23     | Toluene                                        | 28.73         |
| 24     | Ethyl methacrylate/trans-1,2-Dichloroethene    | 29.34         |
| 25     | 1,1,2-Trichloroethane                          | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane          | 31.16         |
| 27     | Dibromochloromethane                           | 31.84         |
| 28     | 1,2-Dibromomethane                             | 33.06         |
| 29     | Chlorobenzene                                  | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane         | 33.85         |
| 31     | m-Xylene/p-Xylene                              | 35.33         |
| 32     | o-Xylene                                       | 35.70         |
| 33     | Styrene                                        | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                     | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                      | 36.80         |
| 36     | 1,1,2-Trichloropropane                         | 37.23         |
| 37     | n-Propylbenzene                                | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                    | 37.92         |
| 39     | Bromobenzene                                   | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                         | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                         | 38.50         |
| 42     | Chlorobenzene                                  | 38.63         |
| 43     | 4-Chlorobenzene                                | 38.77         |
| 44     | tert-Butylbenzene                              | 39.76         |
| 45     | 1,2,4-Trimethylbenzene                         | 39.91         |
| 46     | Pentachloroethane                              | 40.17         |
| 47     | sec-Butylbenzene                               | 40.52         |
| 48     | p-Isopropyltoluene                             | 41.02         |
| 49     | 1,3-Trichlorobenzene                           | 41.42         |
| 50     | 1,4-Dichlorobenzene                            | 41.83         |
| 51     | n-Butylbenzene                                 | 42.52         |
| 52     | 1,2-Dichlorobenzene                            | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                    | 46.12         |
| 54     | Nitrobenzene                                   | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                         | 49.28         |
| 56     | Hexachlorocyclopentadiene                      | 49.72         |
| 57     | Naphthalene                                    | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                         | 51.16         |



## 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 | 1-352-323-3500  |
|                     |                                     | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                  |                                                                                                                               |                                                |                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H225<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>If in eyes, remove contacts, rinse with water |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Signal Word: DANGER

## Section III - Composition

|                                                         |         |              |
|---------------------------------------------------------|---------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | CAS#    | % (optional) |
| Methanol<br>METHYL ALCOHOL                              | 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.                                                                                                                                                                                                        |
| Storage Conditions            | Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                             |                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| Methanol                                    | 67-56-1 TWA 200 ppm                                                                               |
| Skin notation                               | TWA 200 ppm                                                                                       |
| Potential for skin absorption               | ingestion and inhalation.                                                                         |
| Personal protective equipment               | Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. | Wash hands thoroughly after handling the product.                                                 |

## Section IX - Physical/Chemical Characteristics



|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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.



Ree 03117/24

## CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

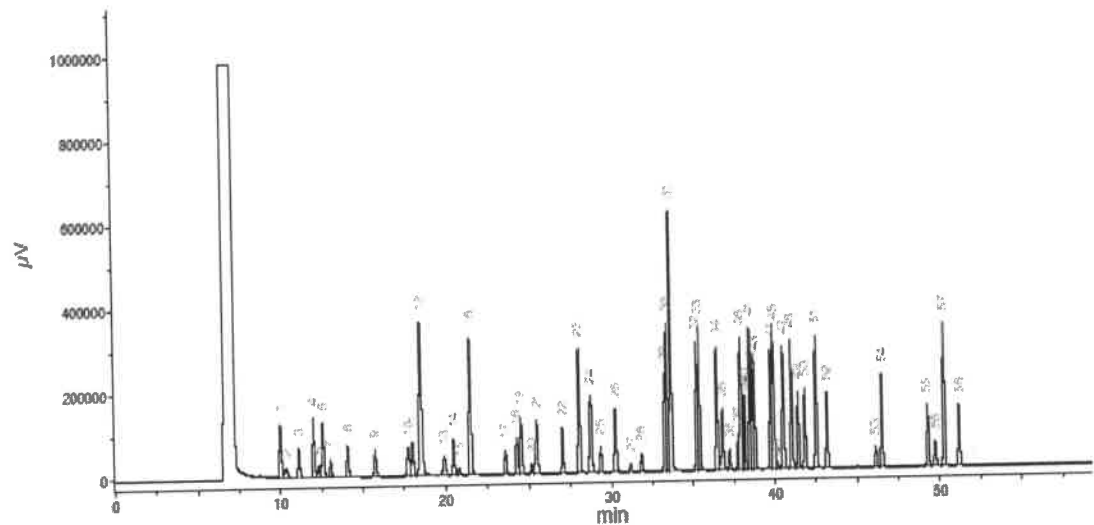
| Compound                            | (K049)      | Lot         | Dir.   | Initial   | Initial       | Nominal       | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual        | Expanded    | SDS Information |                              |                   |      |
|-------------------------------------|-------------|-------------|--------|-----------|---------------|---------------|--------|-------------|--------------|-----------|-----------|---------------|-------------|-----------------|------------------------------|-------------------|------|
|                                     | Part Number | Number      | Factor | Vol. (mL) | Conc. (µg/mL) | Conc. (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc. (µg/mL) | Uncertainty | (+/-) (µg/mL)   | CASE                         | 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)          | or-rat 2450mg/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)            | or-rat 700mg/kg   |      |
| 3. Carbon disulfide                 | (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)       | or-rat 1200mg/kg  |      |
| 4. cis-1,4-Dichloro-2-butene        | (1196)      | 14718EF     | NA     | NA        | NA            | 2000          | 95     | 0.2         | NA           | 0.21056   | 0.21069   | 2001.1        | 8.5         | 1478-11-5       | NA                           | N/A               |      |
| 5. trans-1,4-Dichloro-2-butene      | (0486)      | MKBP6041V   | NA     | NA        | NA            | 2000          | 96.5   | 0.2         | NA           | 0.20731   | 0.20746   | 2001.7        | 8.4         | 110-57-6        | NA                           | N/A               |      |
| 6. Diethyl ether                    | (0153)      | IK18CAS000C | NA     | NA        | NA            | 2000          | 99.9   | 0.2         | NA           | 0.20025   | 0.20040   | 2001.5        | 8.1         | 60-29-7         | NA                           | N/A               |      |
| 7. Ethyl methacrylate               | (0381)      | 06128PX     | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20230   | 2002.3        | 8.2         | 97-63-2         | NA                           | or-rat 14800mg/kg |      |
| 8. Iodomethane                      | (0489)      | SHBF8718V   | NA     | NA        | NA            | 2000          | 99.5   | 0.2         | NA           | 0.20106   | 0.20121   | 2001.5        | 8.2         | 74-88-4         | 5 ppm (28mg/m3/8H) (skin)    | or-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)         | or-rat 2460mg/kg  |      |
| 10. Methacrylonitrile               | (0442)      | 00427ET     | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20221   | 2001.4        | 8.2         | 128-98-7        | 1 ppm (3mg/m3/8H) (skin)     | or-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)   | or-rat 277mg/kg   |      |
| 12. Methyl methacrylate             | (0404)      | MKGW6137V   | 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)        | or-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)     | or-rat 780mg/kg   |      |
| 14. 2-Nitropropane                  | (0461)      | 14002JK     | NA     | NA        | NA            | 2000          | 97.3   | 0.2         | NA           | 0.20560   | 0.20577   | 2001.6        | 8.3         | 78-46-9         | 10 ppm (35mg/m3/8H)          | or-rat 720mg/kg   |      |
| 15. Perchloroethane                 | (0460)      | HGA01       | NA     | NA        | NA            | 2000          | 98     | 0.2         | NA           | 0.20413   | 0.20430   | 2001.6        | 8.3         | 78-01-7         | NA                           | N/A               |      |
| 16. 1,1,2-Trichlorotrifluoroethane  | (0474)      | 18930       | NA     | NA        | NA            | 2000          | 99     | 0.2         | NA           | 0.20207   | 0.20225   | 2001.8        | 8.2         | 76-13-1         | 1000 ppm (7600mg/m3/8H)      | or-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         | NA                           | or-rat 915mg/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        | NA                           | or-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        | 158-59-2        | NA                           | N/A               |      |
| 20. trans-1,2-Dichloroethene        | 35171       | 101623      | 0.05   | 5.00      | 40003.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6        | 22.9        | 158-60-5        | NA                           | N/A               |      |
| 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                      | or-rat 1235mg/kg  |      |
| 22. 1,1-Dichloroethane              | 32261       | 102023      | 0.10   | 10.00     | 20001.6       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.4        | 75-35-4         | 1 ppm (4mg/m3/8H)            | or-rat 200mg/kg   |      |
| 23. Bromoform                       | 95321       | 020724      | 0.10   | 10.00     | 20003.2       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 78-25-2         | 0.5 ppm (5mg/m3) (skin)      | or-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)         | or-rat 2350mg/kg  |      |
| 25. Chloroform                      | 95321       | 020724      | 0.10   | 10.00     | 20002.9       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 67-68-3         | 60 ppm (240mg/m3) (CL)       | or-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         | 100 ppm                      | or-rat 108mg/kg   |      |
| 27. 1,1-Dichloroethane              | 95321       | 020724      | 0.10   | 10.00     | 20003.4       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 75-34-3         | 100 ppm                      | or-rat 725mg/kg   |      |
| 28. 2,2-Dichloropropane             | 95321       | 020724      | 0.10   | 10.00     | 20003.4       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 1999.8        | 20.5        | 594-20-7        | NA                           | N/A               |      |
| 29. Trichloroethene                 | 95321       | 020724      | 0.10   | 10.00     | 20201.1       | 2000          | NA     | NA          | 0.042        | NA        | NA        | 2019.8        | 20.8        | 127-18-4        | 25 ppm (170mg/m3/8H) (final) | or-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)       | or-rat 10300mg/kg |      |
| 31. 1,2-Dibromo-3-chloropropane     | 35161       | 112322      | 0.05   | 5.00      | 40018.5       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.3        | 22.9        | 86-12-8         | 0.001 ppm                    | or-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        | 108-83-4        | 20 ppm (8H)                  | or-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)                  | or-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)         | or-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        | NA                           | or-mus 3600mg/kg  |      |
| 36. 1,1-Dichloropropene             | 35161       | 112322      | 0.05   | 5.00      | 40012.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 2000.1        | 28.7        | 563-58-6        | NA                           | 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        | 10081-01-5      | NA                           | 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        | 10081-02-6      | NA                           | 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)      | or-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        | 830-20-6        | NA                           | or-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)    | or-rat 800mg/kg   |      |
| 42. 1,1,2-Trichloroethane           | 35161       | 112322      | 0.05   | 5.00      | 40006.6       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 23.0        | 79-00-5         | 10 ppm (45mg/m3/8H) (skin)   | or-rat 936mg/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)         | or-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        | 98-18-4         | 10 ppm (60mg/m3/8H)          | or-rat 149.8mg/kg |      |
| 45. Benzene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.0       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 71-43-2         | 1 ppm                        | or-rat 4894mg/kg  |      |
| 46. Bromobenzene                    | 35162       | 050823      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 104-51-8        | NA                           | or-rat 2699mg/kg  |      |
| 47. n-Butyl 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)        | or-rat >2000mg/kg |      |
| 48. Ethyl benzene                   | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 99-87-6         | NA                           | or-rat 4750mg/kg  |      |
| 49. p-Isopropyl toluene             | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 91-20-3         | 10 ppm (50mg/m3/8H)          | or-rat 490mg/kg   |      |
| 50. Naphthalene                     | 35162       | 050823      | 0.05   | 5.00      | 40005.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 100-42-5        | 100 ppm                      | or-rat 5000mg/kg  |      |
| 51. Styrene                         | 35162       | 050823      | 0.05   | 5.00      | 40004.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 108-88-3        | 200 ppm                      | or-rat 5000mg/kg  |      |
| 52. Toluene                         | 35162       | 050823      | 0.05   | 5.00      | 40008.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 87-81-6         | NA                           | or-rat 1390mg/kg  |      |
| 53. 1,2,3-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40003.1       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 120-82-1        | 5 ppm (CL) (40mg/m3)         | or-rat 756mg/kg   |      |
| 54. 1,2,4-Trichlorobenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.6        | 23.0        | 95-63-6         | NA                           | or-rat 5g/kg      |      |
| 55. 1,2,4-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40001.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-87-8        | NA                           | or-rat 5000mg/kg  |      |
| 56. 1,3,5-Trimethylbenzene          | 35162       | 050823      | 0.05   | 5.00      | 40006.7       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 23.0        | 95-63-6         | NA                           | or-rat 5g/kg      |      |
| 57. m-Xylene                        | 35162       | 050823      | 0.05   | 5.00      | 40005.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-87-8        | NA                           | or-rat 5000mg/kg  |      |
| 58. tert-Butyl benzene              | 35163       | 101923      | 0.05   | 5.00      | 40001.2       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 108-38-3        | 100 ppm (435mg/m3/8H)        | or-rat 5g/kg      |      |
| 59. sec-Butyl benzene               | 35163       | 101923      | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 98-06-6         | NA                           | N/A               |      |
| 60. Chlorobenzene                   | 35163       | 101923      | 0.05   | 5.00      | 40002.4       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.8        | 22.9        | 135-98-8        | NA                           | or-rat 2240mg/kg  |      |
| 61. 2-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.8       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.5        | 22.9        | 108-90-7        | 75 ppm (350mg/m3/8H)         | or-rat 2290mg/kg  |      |
| 62. 4-Chlorotoluene                 | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.5        | 22.9        | 95-49-8         | 50 ppm (250mg/m3/8H)         | or-rat 3900mg/kg  |      |
| 63. 1,2-Dichlorobenzene             | 35163       | 101923      | 0.05   | 5.00      | 40003.3       | 2000          | NA     | NA          | 0.017        | NA        | NA        | 1999.7        | 22.9        | 106-43-4        |                              |                   |      |



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., Hydrogen(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          | 10.53         |
| 3      | 1,1-Dichloroethane                             | 11.10         |
| 4      | Acetonitrile                                   | 12.60         |
| 5      | Iodomethane                                    | 12.91         |
| 6      | Allyl chloride                                 | 12.96         |
| 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     | Methoxyvinylbenzene/Methyl acrylate/Chloroform | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane                | 18.91         |
| 14     | 1,1-Dichloropropane                            | 20.46         |
| 15     | Carbon tetrachloride                           | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                     | 21.48         |
| 17     | Trichloroethene                                | 23.88         |
| 18     | 1,2-Dichloropropane                            | 24.52         |
| 19     | Methyl methacrylate                            | 25.13         |
| 20     | Bromochloropropane                             | 25.46         |
| 21     | Dibromomethane/2-Pentene                       | 27.07         |
| 22     | cis-1,2-Dichloroethene                         | 28.03         |
| 23     | Toluene                                        | 28.73         |
| 24     | Ethyl methacrylate/trans-1,2-Dichloroethene    | 29.34         |
| 25     | 1,1,2-Trichloroethane                          | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane          | 31.16         |
| 27     | Dibromochloromethane                           | 31.84         |
| 28     | 1,2-Dibromomethane                             | 33.05         |
| 29     | Chlorobenzene                                  | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane         | 33.85         |
| 31     | m-Xylene/p-Xylene                              | 35.33         |
| 32     | o-Xylene                                       | 35.70         |
| 33     | Styrene                                        | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                     | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                      | 36.80         |
| 36     | 1,1,2-Trichloropropane                         | 37.23         |
| 37     | n-Propylbenzene                                | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                    | 37.92         |
| 39     | Bromobenzene                                   | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                         | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                         | 38.50         |
| 42     | Chlorobenzene                                  | 38.63         |
| 43     | 4-Chlorobenzene                                | 38.77         |
| 44     | tert-Butylbenzene                              | 39.76         |
| 45     | 1,2,4-Trimethylbenzene                         | 39.91         |
| 46     | Pentachloroethane                              | 40.17         |
| 47     | sec-Butylbenzene                               | 40.52         |
| 48     | p-Isopropylbenzene                             | 41.02         |
| 49     | 1,3-Dichlorobenzene                            | 41.42         |
| 50     | 1,4-Dichlorobenzene                            | 41.83         |
| 51     | n-Butylbenzene                                 | 42.52         |
| 52     | 1,2-Dichlorobenzene                            | 42.58         |
| 53     | 1,2-Dibromo-3-chloropropane                    | 46.12         |
| 54     | Nitrobenzene                                   | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                         | 49.26         |
| 56     | Hexachlorobutadiene                            | 49.72         |
| 57     | Naphthalene                                    | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                         | 51.16         |

## 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 | 1-352-323-3500  |
|                     |                                     | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                  |                                                                                                                               |                                                |                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H225<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>If in eyes, remove contacts, rinse with water |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Signal Word: DANGER

## Section III - Composition

|                                                         |         |              |
|---------------------------------------------------------|---------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | CAS#    | % (optional) |
| Methanol<br>METHYL ALCOHOL                              | 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.                                                                                                                                                                                                        |
| Storage Conditions            | Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                             |                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| Methanol                                    | 67-56-1 TWA 200 ppm                                                                               |
| Skin notation                               | TWA 200 ppm                                                                                       |
| Potential for skin absorption               | ingestion and inhalation.                                                                         |
| Personal protective equipment               | Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. | Wash hands thoroughly after handling the product.                                                 |

## Section IX - Physical/Chemical Characteristics

|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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 Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

Part Number: **91980**  
Lot Number: **091424**  
Description: **Acrolein**Solvent(s):  
Water Lot#  
072324Q

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

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

| 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        | ori-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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--&gt; 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z--&gt; 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



## Certified Reference Material CRM

Dec 09/17/24

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):  
Water Lot#  
072324QExpiration Date: 101424  
Recommended Storage: Refrigerate (4 °C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--&gt; 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--&gt; 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **111722**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**  
Methanol **EB679-US**

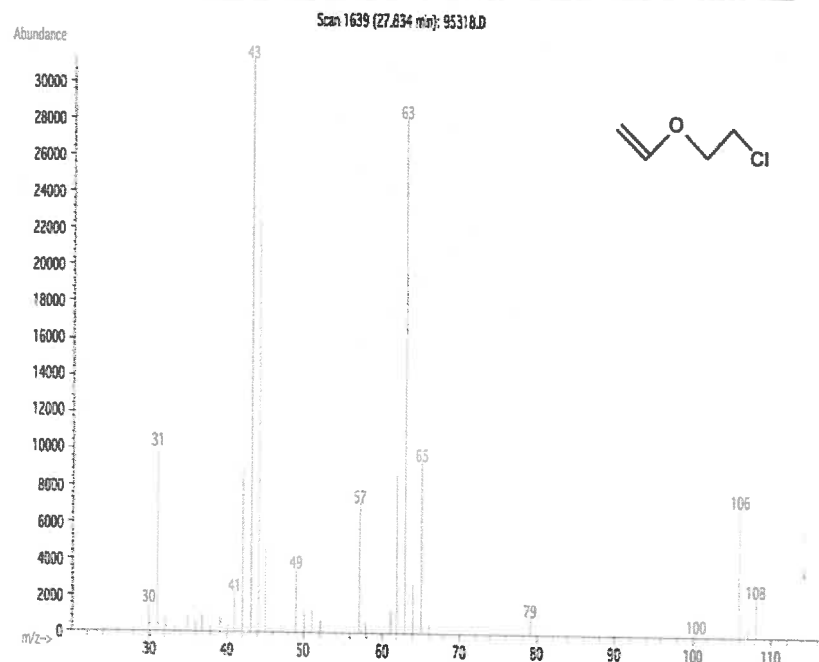
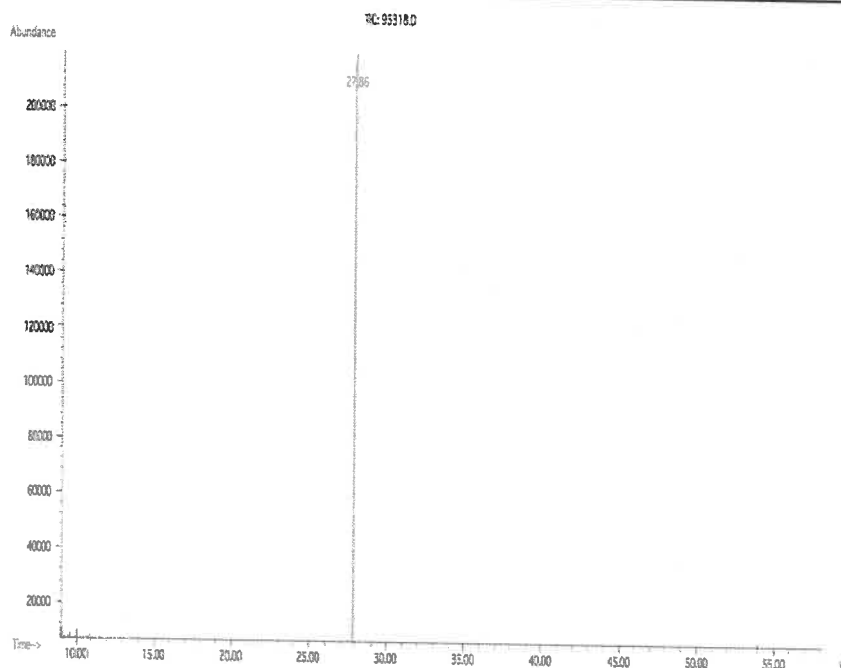
Expiration Date: **111725**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Eli Aliaga</i>      |                 | 111722 |
| Formulated By:         | Eli Aliaga      | DATE   |
| <i>Pedro L. Rentas</i> |                 | 111722 |
| 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                | 0.50541           | 0.50551           | 10001.9             | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).





CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **111722**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**  
**Methanol EB679-US**

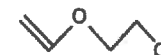
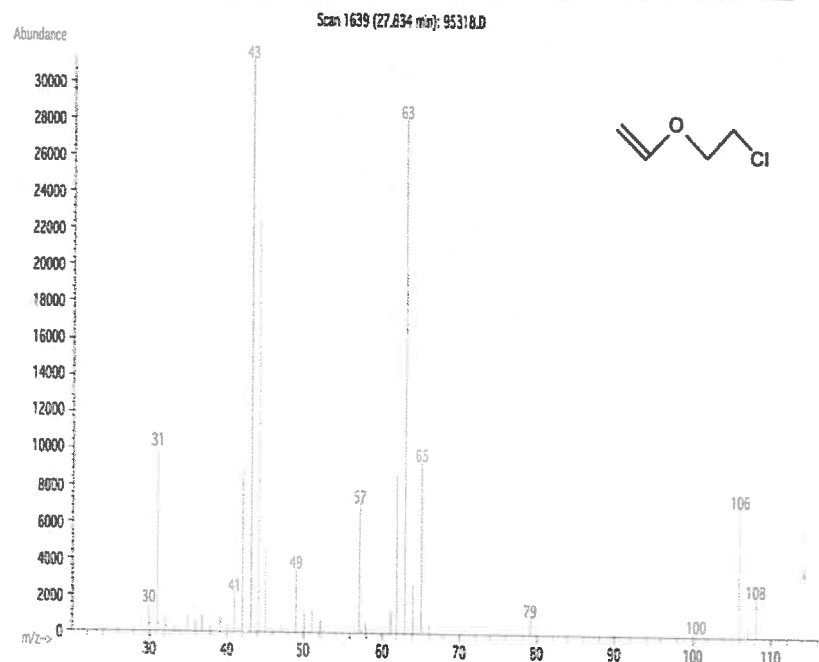
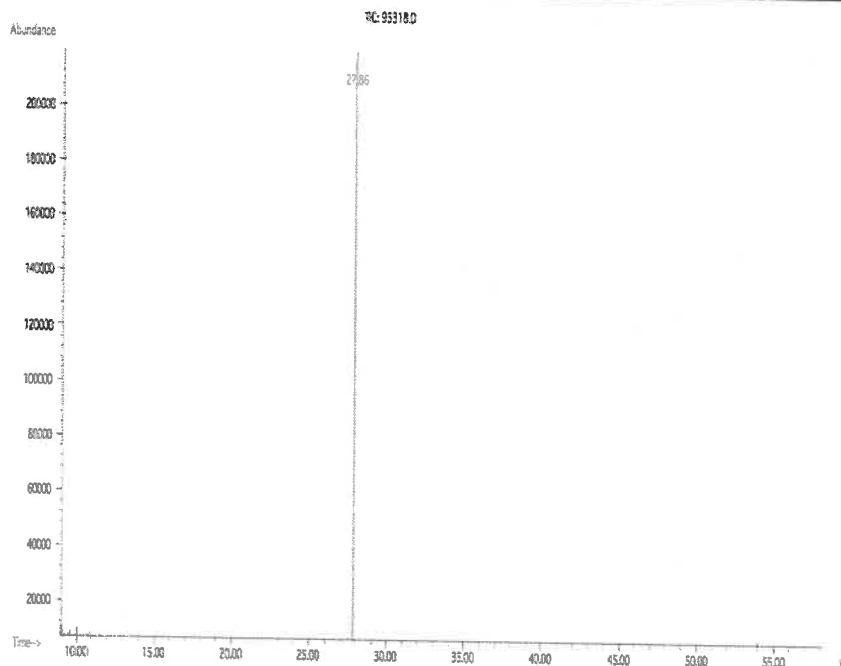
Expiration Date: **111725**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Eli Aliaga</i>      |                 | 111722 |
| Formulated By:         | Eli Aliaga      | DATE   |
| <i>Pedro L. Rentas</i> |                 | 111722 |
| 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                | 0.50541           | 0.50551           | 10001.9             | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

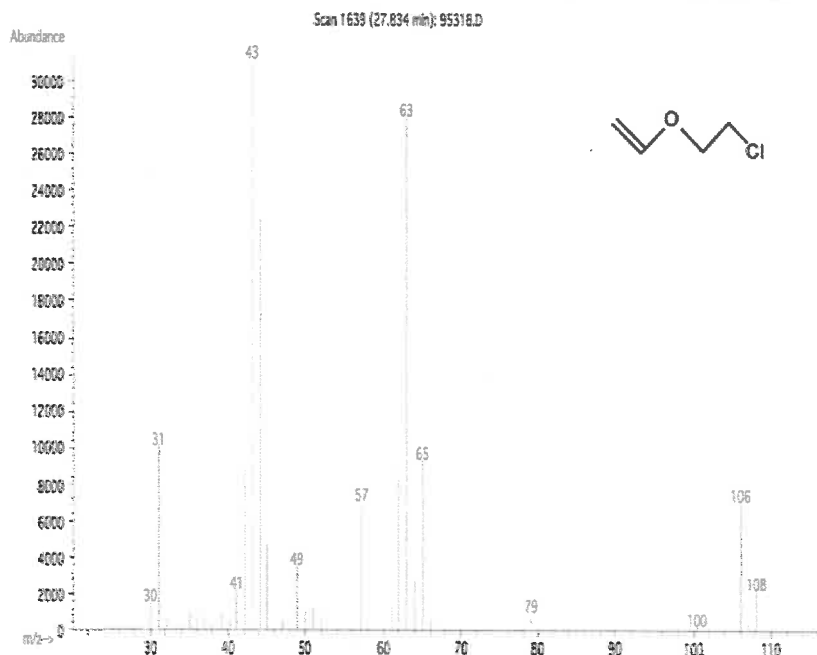
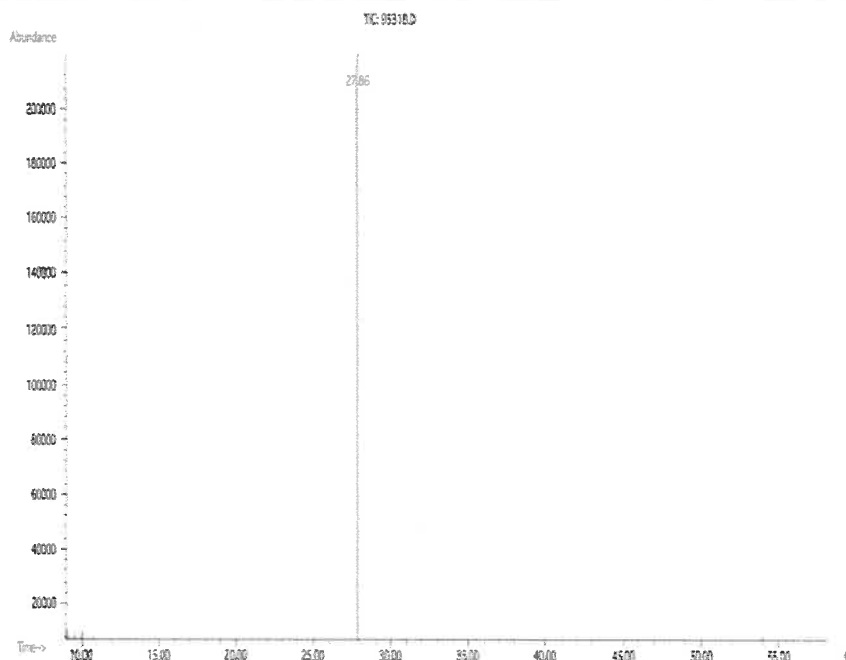
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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                           | <b>1-800-535-5053</b>                    |
| Address             | 44 Rosotto Dr.<br>Hamden CT. 06514 | Emergency Telephone International<br>Date Prepared/Revised | <b>1-352-323-3500</b><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 shield        |
| 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

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| <b>If inhaled</b>              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| <b>In case of skin contact</b> | Wash with soap and water. Consult a physician.                                                              |
| <b>In case of eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| <b>If swallowed</b>            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                                      |                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                  | 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. |
| <b>Suitable extinguishing media</b>  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| <b>Protective equipment for fire</b> | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

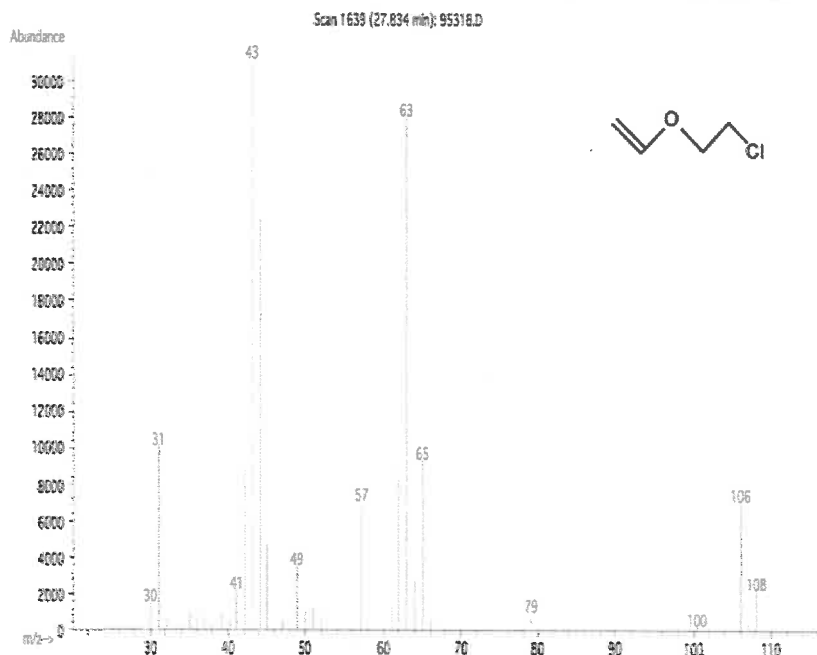
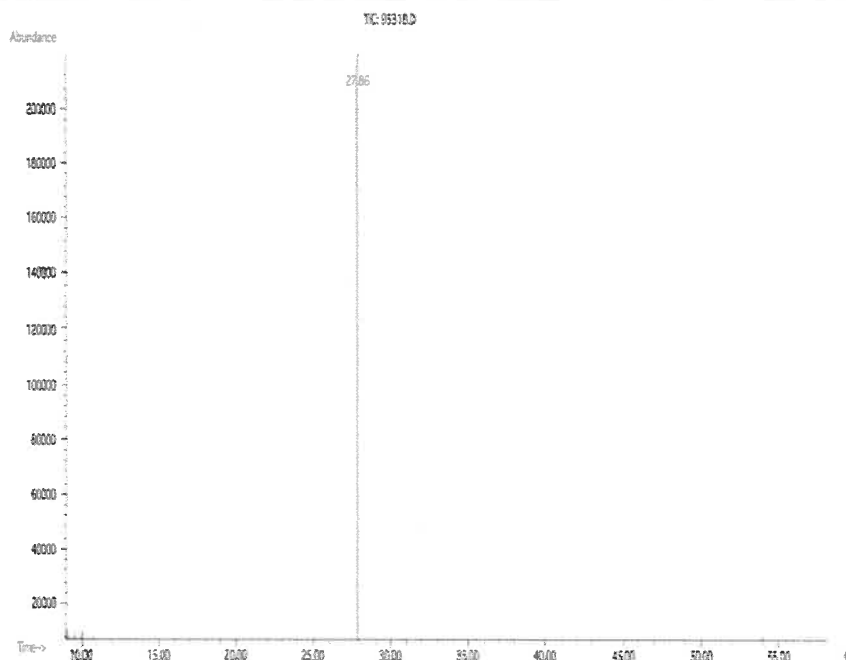
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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                           | <b>1-800-535-5053</b>                    |
| Address             | 44 Rosotto Dr.<br>Hamden CT. 06514 | Emergency Telephone International<br>Date Prepared/Revised | <b>1-352-323-3500</b><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 shield        |
| 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

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| <b>If inhaled</b>              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| <b>In case of skin contact</b> | Wash with soap and water. Consult a physician.                                                              |
| <b>In case of eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| <b>If swallowed</b>            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                                      |                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                  | 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. |
| <b>Suitable extinguishing media</b>  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| <b>Protective equipment for fire</b> | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

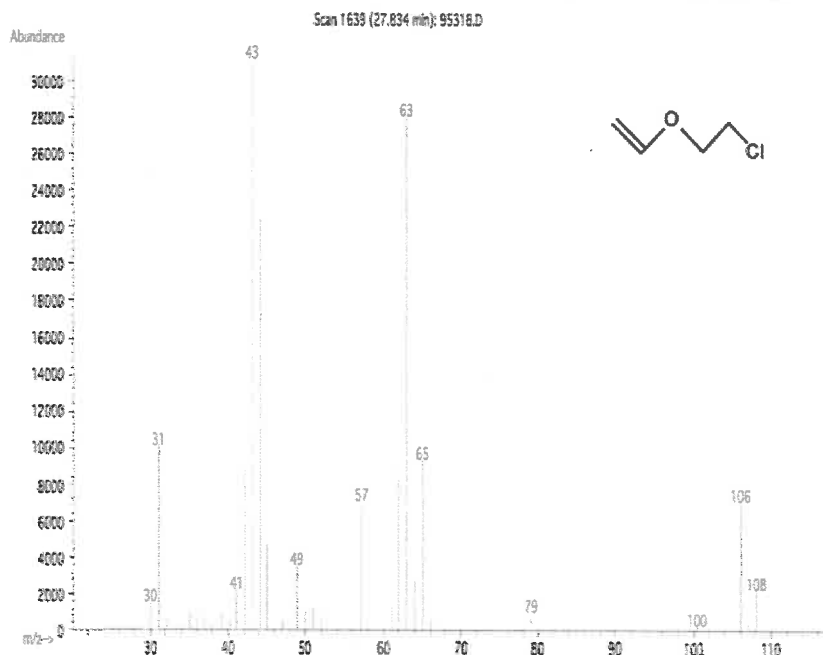
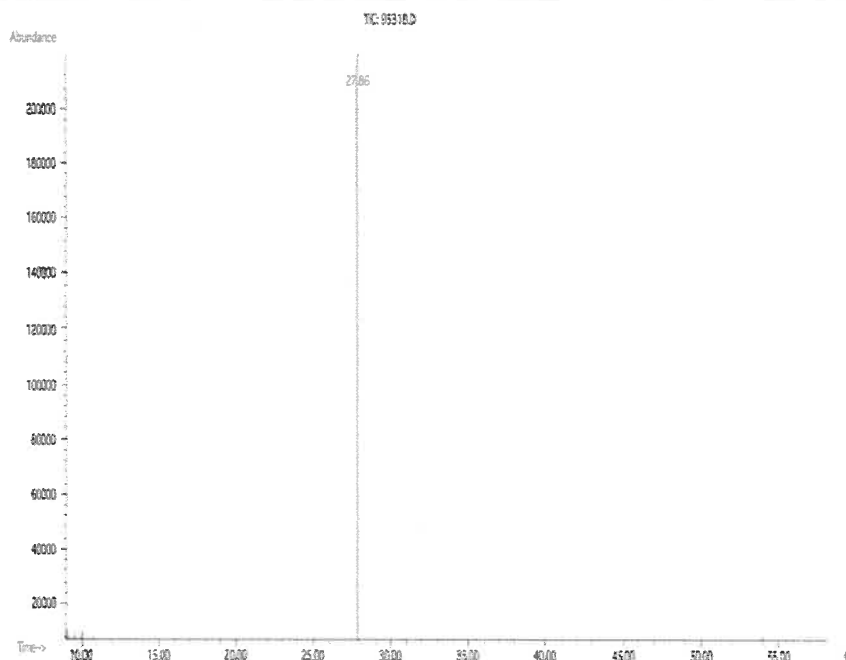
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



## 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.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| 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 shield        |
| 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 | > 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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 Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

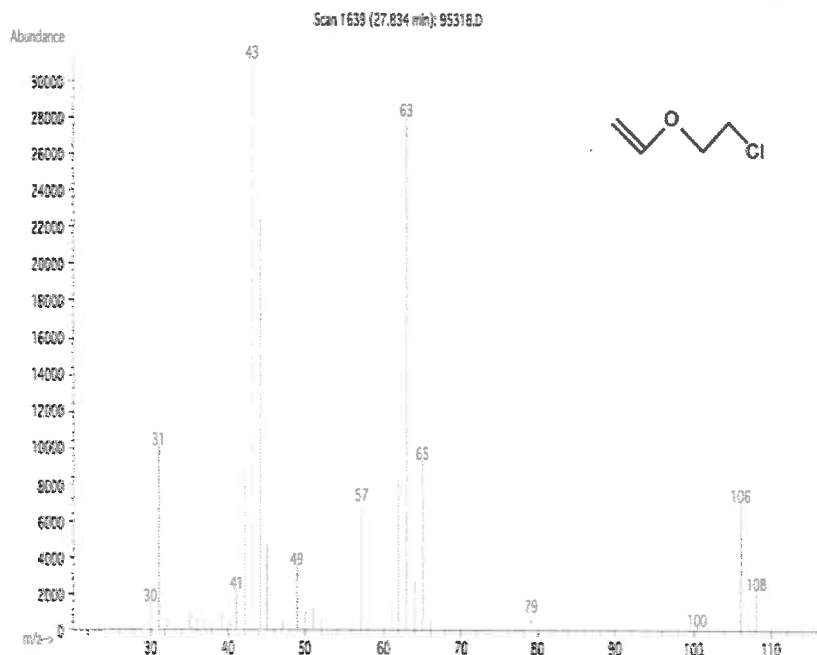
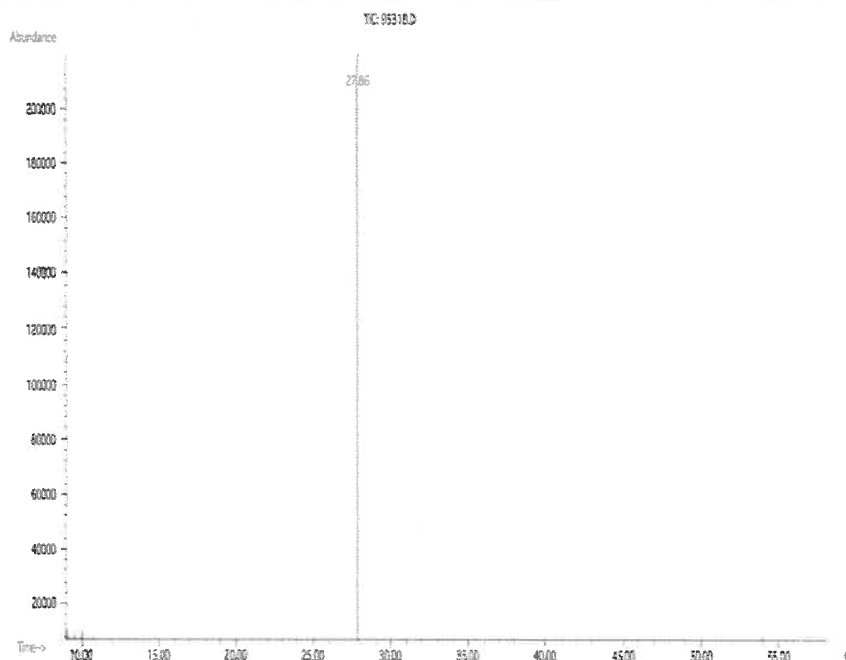
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## 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.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| 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 shield        |
| 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 | > 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                | 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 (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(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)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | 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  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 30470 Lot No.: A0191703  
Description : tert-Butanol Standard  
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : November 30, 2025 Storage: 0°C or colder  
Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                                | Grav. Conc.<br>(weight/volume) | Expanded Uncertainty<br>(95% C.L.; K=2)                                                            |
|---------------|-------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------|
| 1             | tert-Butanol (TBA)<br>CAS # 75-65-0<br>Purity 99%<br>(Lot 101619K21F-1) | 50,122.0 µg/mL                 | +/- 293.4753 µg/mL Gravimetric<br>+/- 1,073.6797 µg/mL Unstressed<br>+/- 1,104.8612 µg/mL Stressed |

Solvent: P&T Methanol  
CAS # 67-56-1  
Purity 99%

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

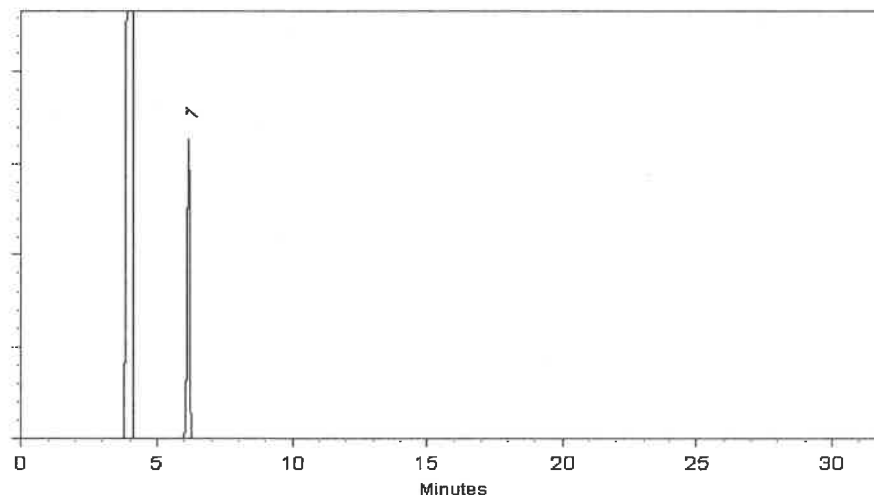
200°C

**Det. Temp:**

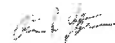
250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Alicia Leathers - Operation Technician I

**Date Mixed:** 15-Nov-2022

**Balance:** 1127510105

  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 17-Nov-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, 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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  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](http://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](http://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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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 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:**

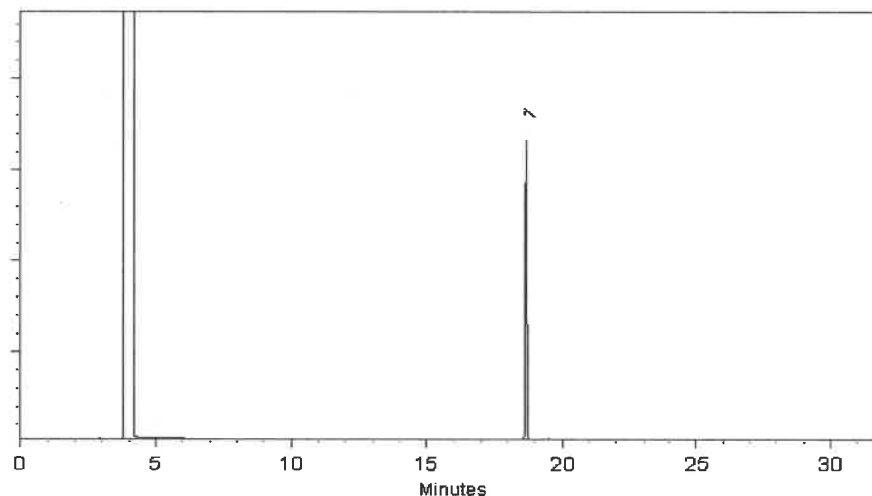
FID

**Split Vent:**

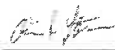
40 ml/min

**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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0197644

**Description :** 502.2 Calibration Mix #1  
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2030 **Storage:** 0°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                         | CAS #   | Lot #           | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|-----------------------------|----------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00012554        | 99%    | 2,001.6 µg/mL               | +/- 112.7159                           |
| 2             | Chloromethane (methyl chloride)  | 74-87-3 | SHBM9611        | 99%    | 2,002.0 µg/mL               | +/- 112.7840                           |
| 3             | Vinyl chloride                   | 75-01-4 | 00015559        | 99%    | 2,002.2 µg/mL               | +/- 112.6713                           |
| 4             | Bromomethane (methyl bromide)    | 74-83-9 | 101604          | 99%    | 2,006.4 µg/mL               | +/- 112.8861                           |
| 5             | Chloroethane (ethyl chloride)    | 75-00-3 | 107-401039114-1 | 99%    | 2,000.9 µg/mL               | +/- 112.5990                           |
| 6             | Trichlorofluoromethane (CFC-11)  | 75-69-4 | MKCL8411        | 99%    | 1,999.2 µg/mL               | +/- 112.4861                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

## Quality Confirmation Test

**Column:**

60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

helium-constant flow 2.0 mL/min.

**Temp. Program:**

40°C (hold 6 min.) to 100°C  
@ 6°C/min.

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

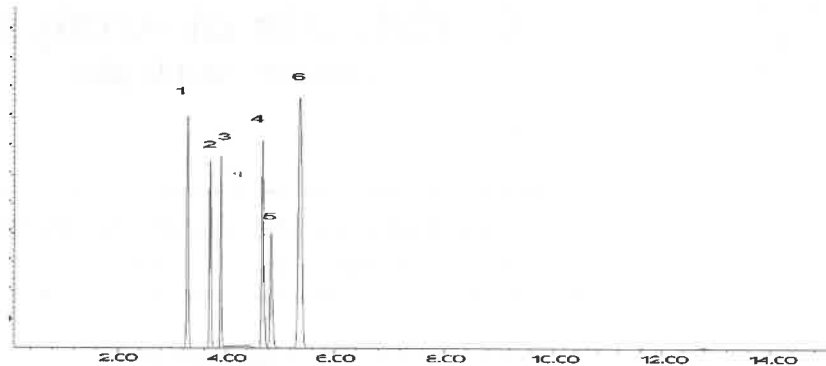
MSD

**Split Vent:**

Split ratio 10:1

**Inj. Vol**

1µl



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.

  
Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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:**

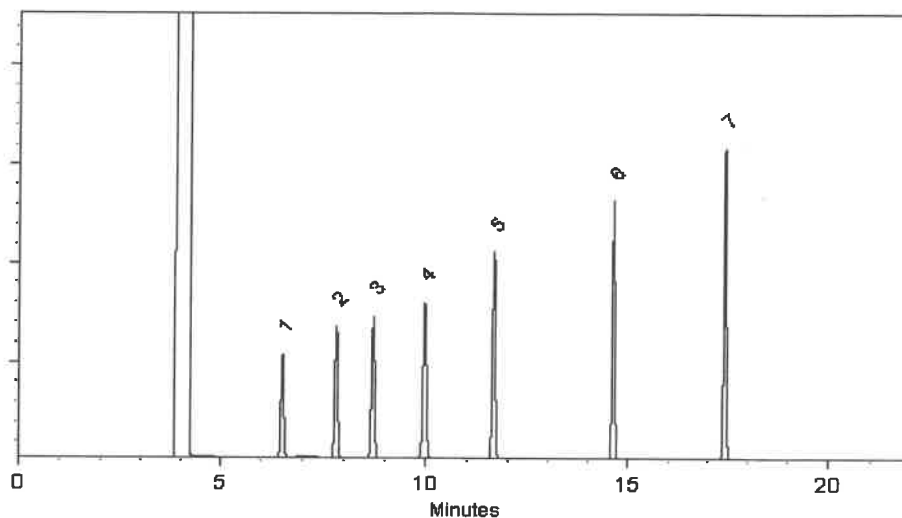
FID

**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*  
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

*Dillon Murphy*  
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic plus



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:**

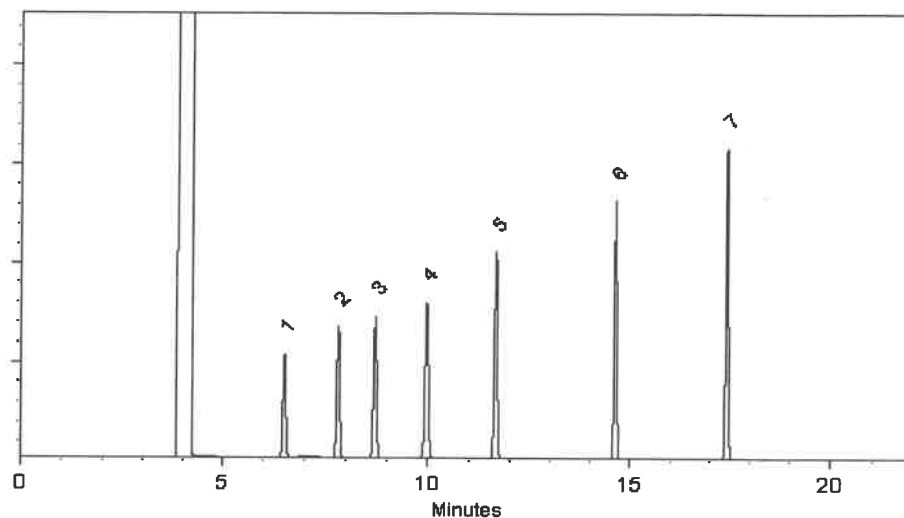
FID

**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*  
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

*Dillon Murphy*  
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

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- Purity values are rounded to the nearest whole number.

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618  
**Description :** VOA Calibration Mix #1  
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

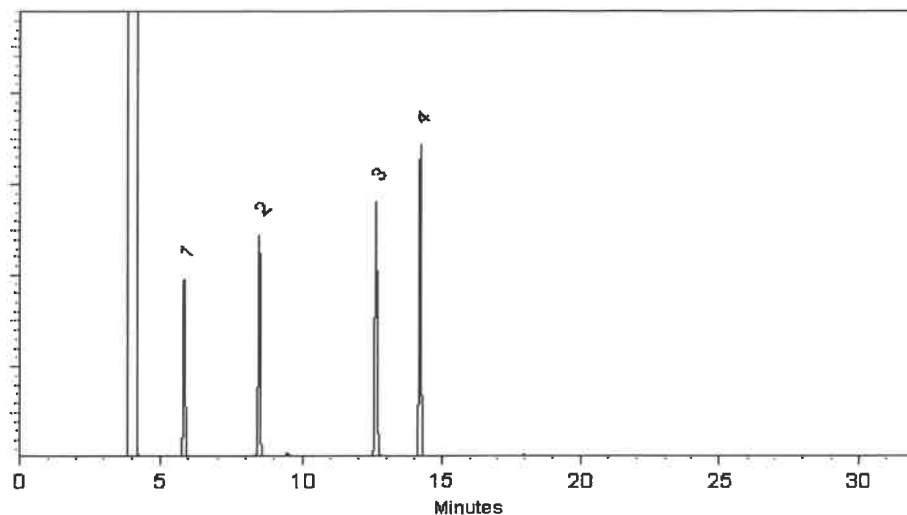
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

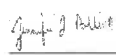


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618  
**Description :** VOA Calibration Mix #1  
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%



## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

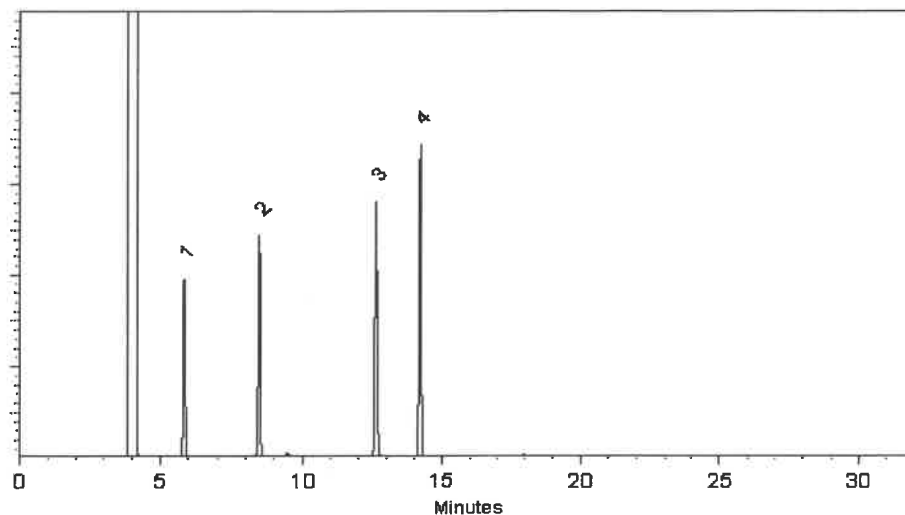
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

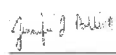


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

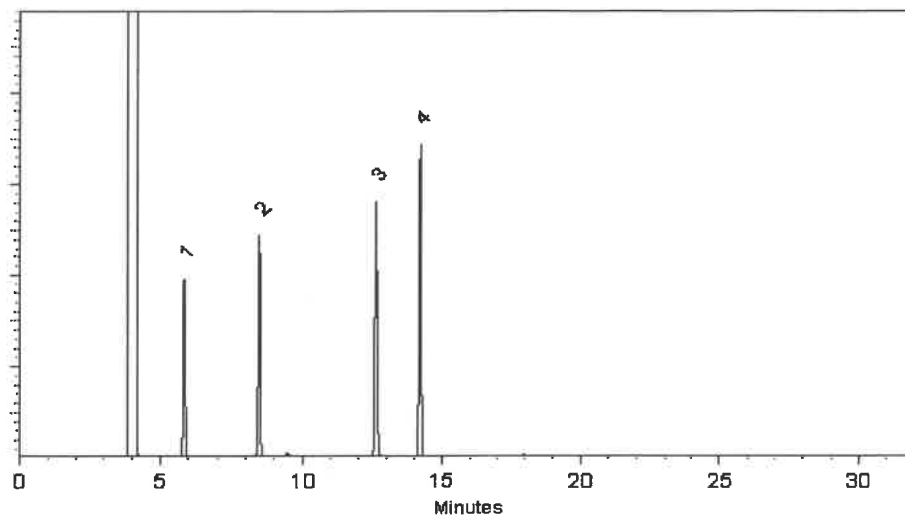
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

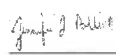


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

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V14727 to  
V14756



**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:**

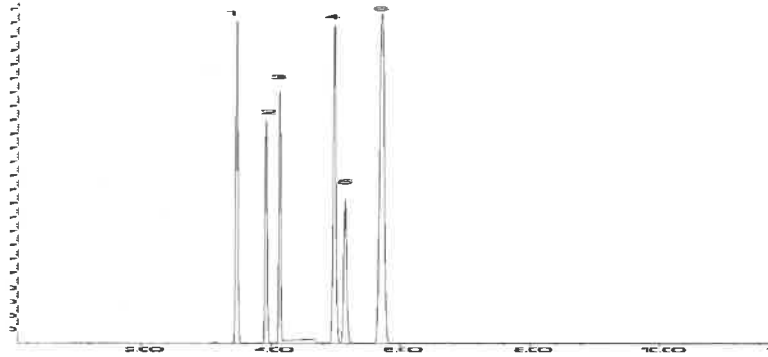
MSD

**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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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  
30 ml  
CERTIFIED REFERENCE MATERIAL

**Certificate of Analysis**  
*chromatographic plus*

V14727 to  
V14756



**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:**

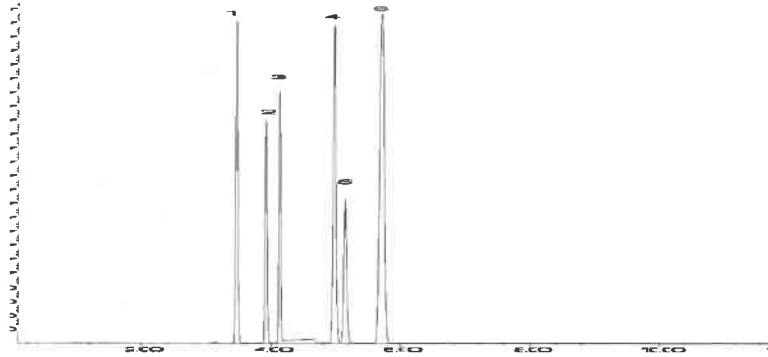
MSD

**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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0217535  
**Description :** tert-Butanol Standard  
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #   | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|------------|--------|-----------------------------|----------------------------------------|
| 1             | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99%    | 50,007.5 µg/mL              | +/- 717.6137                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

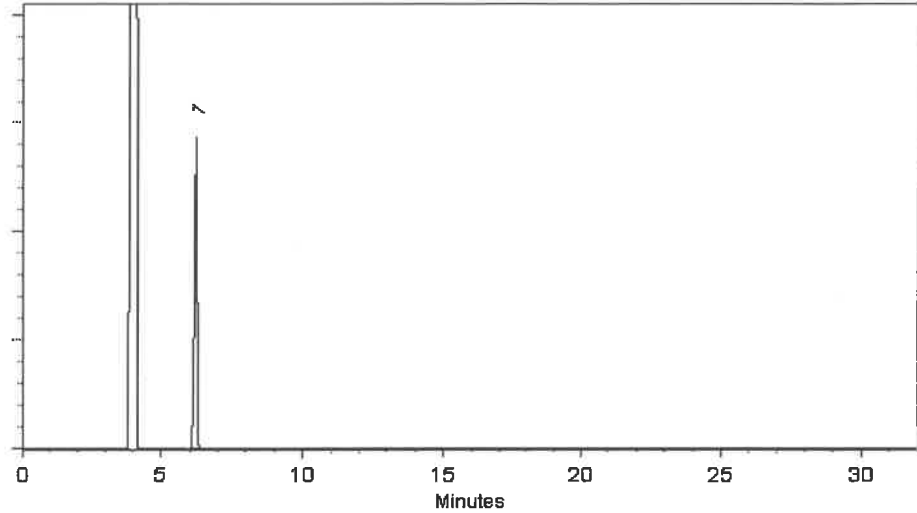
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A. O. E.*  
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

*Brittany Federinko*  
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



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. :** 555584 **Lot No.:** A0219012

**Description :** Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/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

| Component # | Compound                      | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2-Dichloroethane-d4         | 17060-07-0 | PR-33313   | 99%    | 25,228.0 µg/mL              | +/- 1,428.7919                         |
| 2           | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4   | 0000268853 | 99%    | 25,196.0 µg/mL              | +/- 1,426.9795                         |
| 3           | Toluene-d8                    | 2037-26-5  | PR-34141   | 99%    | 25,228.0 µg/mL              | +/- 1,428.7919                         |

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024

Balance: 1127510105



Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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### Manufacturing Notes:

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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## 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:**

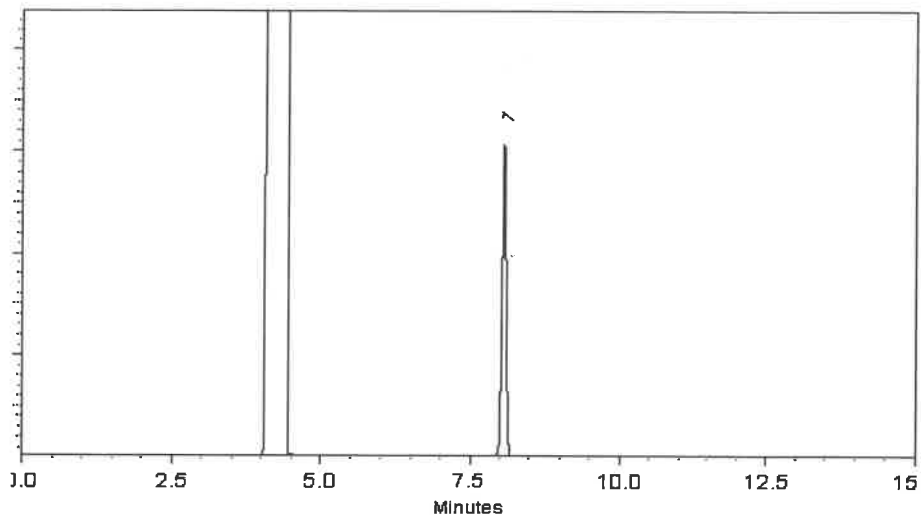
FID

**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 Pollock at 7:12 am, Jan 05, 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/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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### Manufacturing Notes:

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### Handling Notes:

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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## 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:**

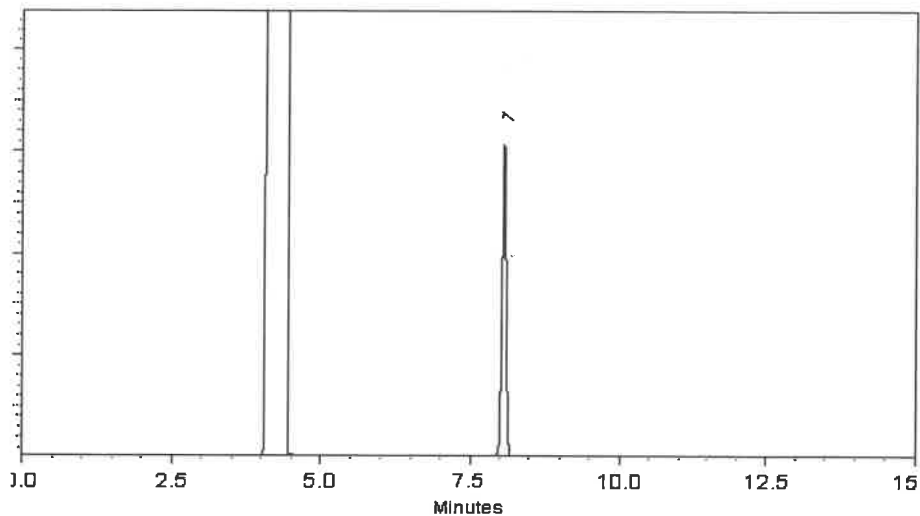
FID

**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 Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

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### Purity Notes:

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- Purity values are rounded to the nearest whole number.

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### Handling Notes:

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Fax: 1-814-353-1309

www.restek.com

10 vol Rec 01/08/25  
CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic

✓ 14793 to 14802



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-FL **Lot No.:** A0220563  
**Description :** Custom Vinyl Acetate Standard  
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder  
**Handling:** This product is photosensitive. **Ship:** On Ice

## CERTIFIED VALUES

| Elution Order | Compound      | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Vinyl acetate | 108-05-4 | RD240423RSR | 99%    | 8,060.0 µg/mL               | +/- 278.5905                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# 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:**

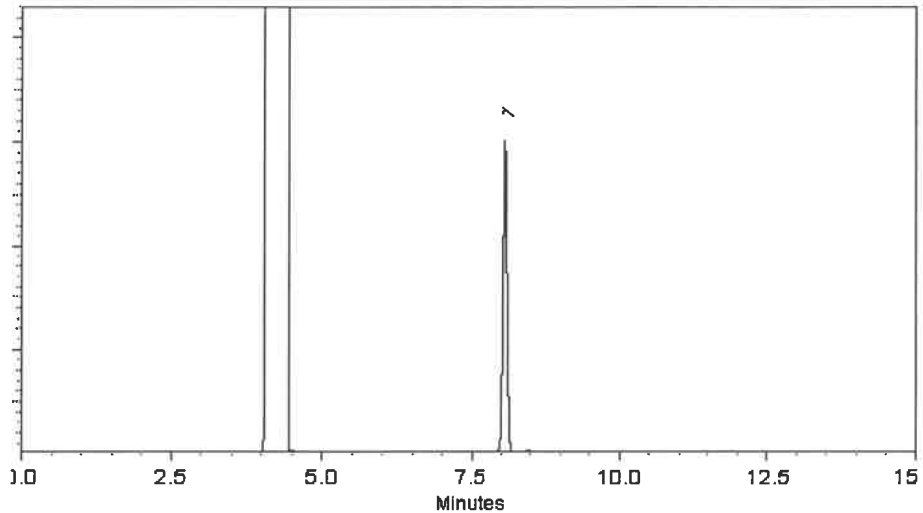
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

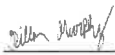


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662

  
Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED  
By Jennifer Pothier 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:

- 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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 03/12/25  
10 vials  
CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric

V14885-to-V14894



## 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. :** 555583 **Lot No.:** A0223136

**Description :** Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 0°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-Difluorobenzene | 540-36-3  | MKCS8657   | 99%    | 25,024.0 µg/mL              | +/- 1,417.2383                         |
| 2           | Bromochloromethane  | 74-97-5   | S241017RSR | 99%    | 25,060.0 µg/mL              | +/- 1,419.2772                         |
| 3           | Chlorobenzene-d5    | 3114-55-4 | PR-31132   | 99%    | 25,048.4 µg/mL              | +/- 1,418.6202                         |

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Penelope Riglin - Operations Tech I

**Date Mixed:** 10-Mar-2025

**Balance:** 1128342314

REVIEWED  
By: [Signature] 03/12/25

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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

Rev 05/09/25  
**Avantor**<sup>™</sup>



V 14921 to  
V 14938

Material No.: 9077-02  
Batch No.: 24G0262002  
Manufactured Date: 2024-05-14  
Expiration Date: 2027-05-14  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.3 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.3      |
| Titration 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

Jamie Croak  
Director Quality Operations, Bioscience Production

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis

Rev 05/09/25  
**Avantor™**



V 14921 to  
V 14938

Material No.: 9077-02  
Batch No.: 24G0262002  
Manufactured Date: 2024-05-14  
Expiration Date: 2027-05-14  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.3 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.3      |
| Titration 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

Jamie Croak  
Director Quality Operations, Bioscience Production



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Fax: 1-814-353-1309

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Dec 05/19/25  
CERTIFIED REFERENCE MATERIAL  
10 vial

# Certificate of Analysis

## chromatographic plus

✓ 14971 to 14980



### 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.:** A0220531  
**Description :** 8260B Acetates Mix  
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder  
**Handling:** This product is photosensitive. **Ship:** On Ice

### CERTIFIED VALUES

| Elution Order | Compound          | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Methyl acetate    | 79-20-9  | SHBR1889    | 99%    | 2,018.7 µg/mL               | +/- 69.7744                            |
| 2             | Vinyl acetate     | 108-05-4 | RD240423RSR | 99%    | 2,014.7 µg/mL               | +/- 69.6361                            |
| 3             | Ethyl acetate     | 141-78-6 | SHBR4534    | 99%    | 2,010.7 µg/mL               | +/- 69.4979                            |
| 4             | Isopropyl acetate | 108-21-4 | BCCG7069    | 99%    | 2,010.7 µg/mL               | +/- 69.4979                            |
| 5             | Propyl acetate    | 109-60-4 | P8XLN       | 99%    | 2,017.3 µg/mL               | +/- 69.7283                            |
| 6             | Butyl acetate     | 123-86-4 | SHBR2024    | 99%    | 2,010.7 µg/mL               | +/- 69.4979                            |
| 7             | Amyl acetate      | 628-63-7 | BCBT7442    | 99%    | 2,017.3 µg/mL               | +/- 69.7283                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



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REC 06/02/25  
15 V141  
CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus

V14996 to V15010



## 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.:** A0220242

**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 :** March 31, 2028 **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  | SHBR5966 | 99%    | 5,033.8 µg/mL               | +/- 173.9449                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ9020 | 99%    | 5,011.4 µg/mL               | +/- 173.1708                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBR0467 | 99%    | 5,043.0 µg/mL               | +/- 174.2628                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCV1997 | 99%    | 5,028.8 µg/mL               | +/- 173.7721                           |

\* 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:**

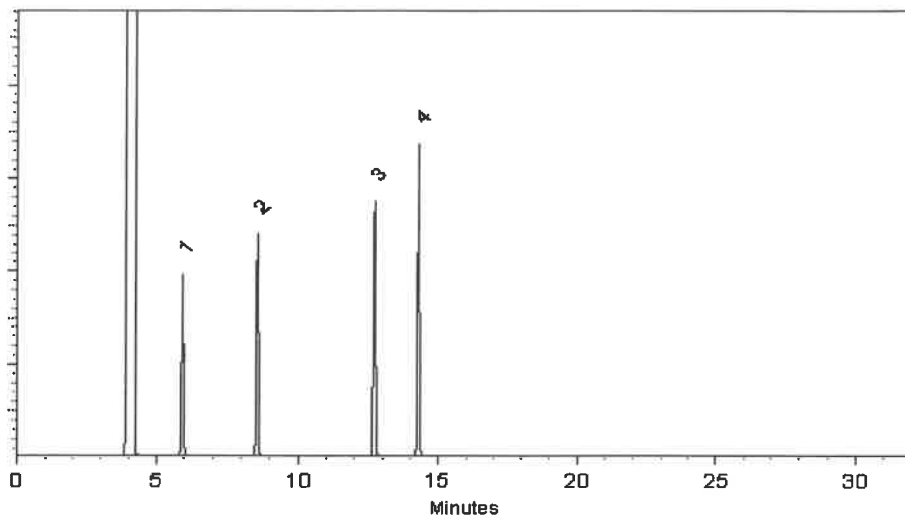
FID

**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.

Stacey Wanner - Operations Technician I

Date Mixed: 17-Dec-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Dec-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 081325  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

|                     |                 |        |
|---------------------|-----------------|--------|
| <i>Eli Allaga</i>   |                 | 081325 |
| Formulated By:      | Eli Allaga      | DATE   |
| <i>Pedro Rentas</i> |                 | 081325 |
| Reviewed By:        | Pedro L. Rentas | DATE   |

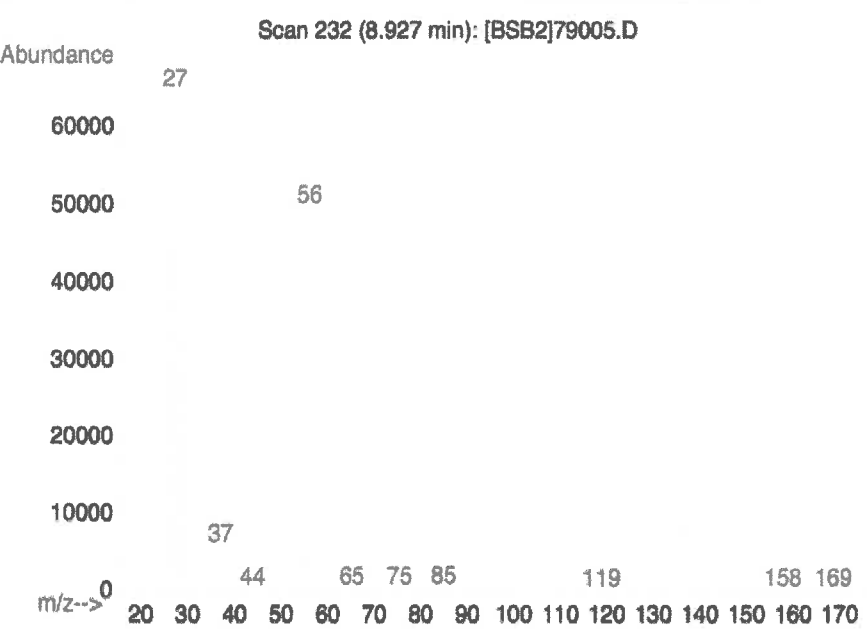
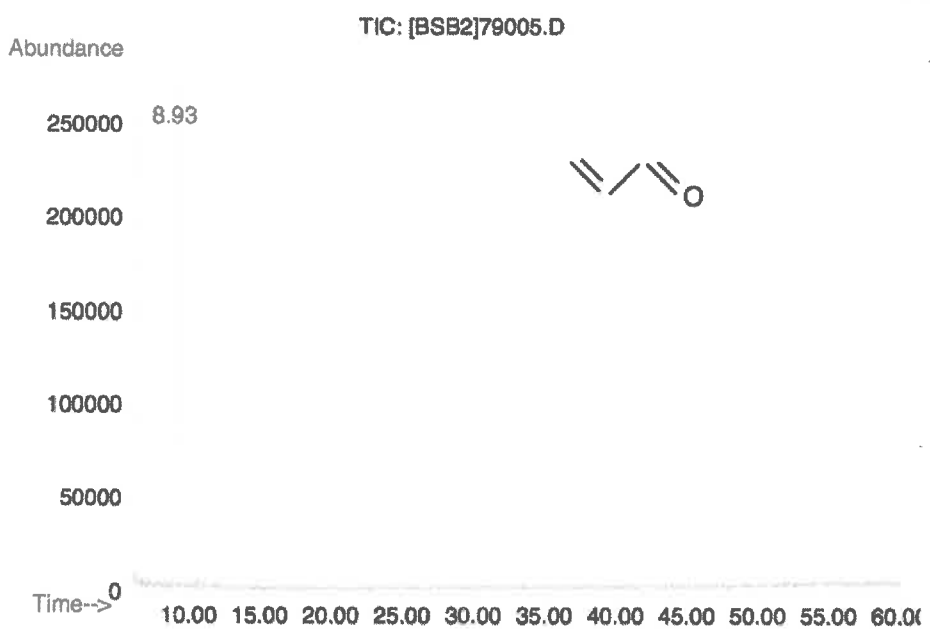
Expiration Date: 091325  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

V15057 + 0  
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
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          | 0.05176          | 5009.9              | 52.6                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)  
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately  
Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).  
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).  
Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 081325  
Description: Acrolein

Solvent(s):  
Water  
Lot# 041725Q

|                     |                 |        |
|---------------------|-----------------|--------|
| <i>Eli Allaga</i>   |                 | 081325 |
| Formulated By:      | Eli Allaga      | DATE   |
| <i>Pedro Rentas</i> |                 | 081325 |
| Reviewed By:        | Pedro L. Rentas | DATE   |

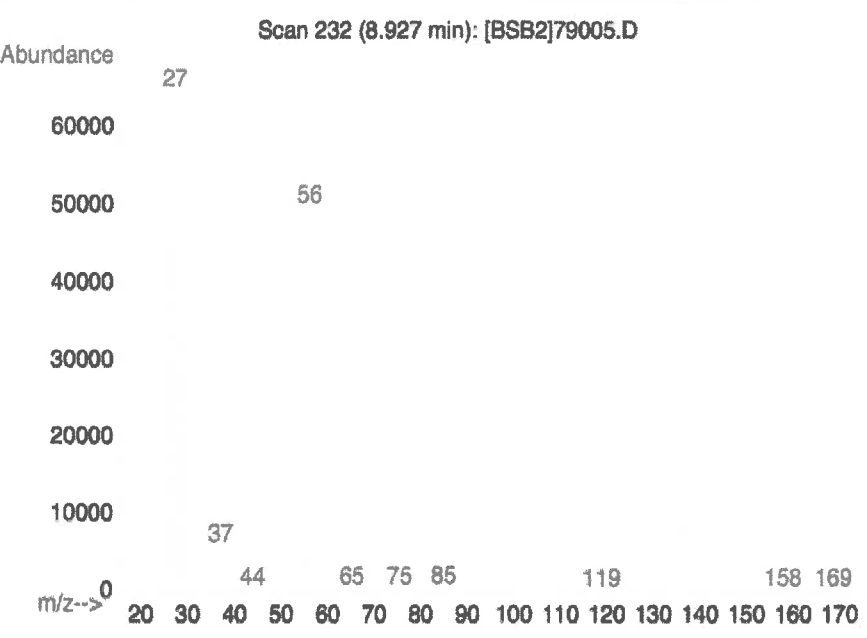
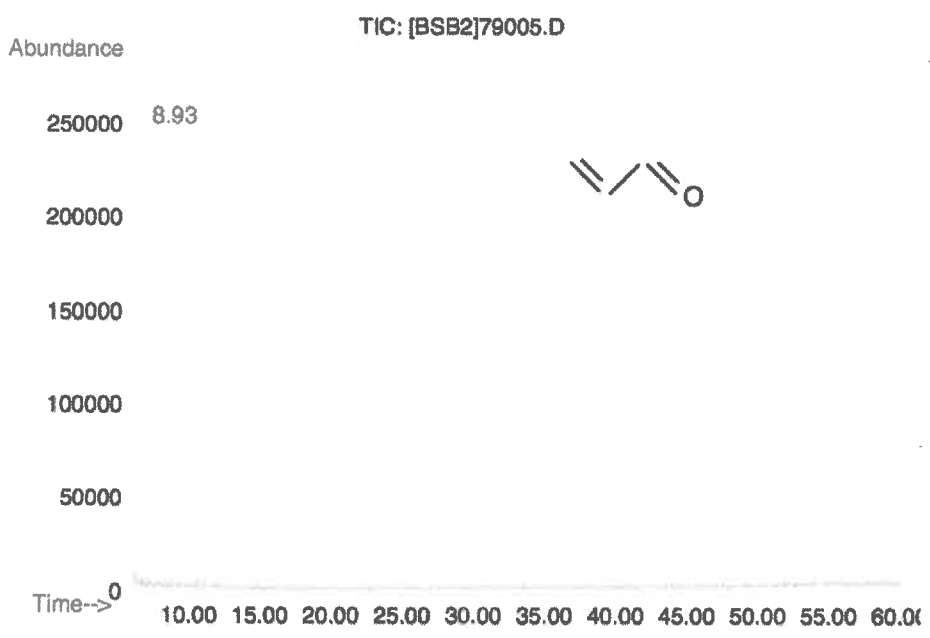
Expiration Date: 091325  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

V15057 + 0  
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
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          | 0.05176          | 5009.9              | 52.6                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).  
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).  
Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 081325  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

|                     |                 |        |
|---------------------|-----------------|--------|
| <i>Eli Allaga</i>   |                 | 081325 |
| Formulated By:      | Eli Allaga      | DATE   |
| <i>Pedro Rentas</i> |                 | 081325 |
| Reviewed By:        | Pedro L. Rentas | DATE   |

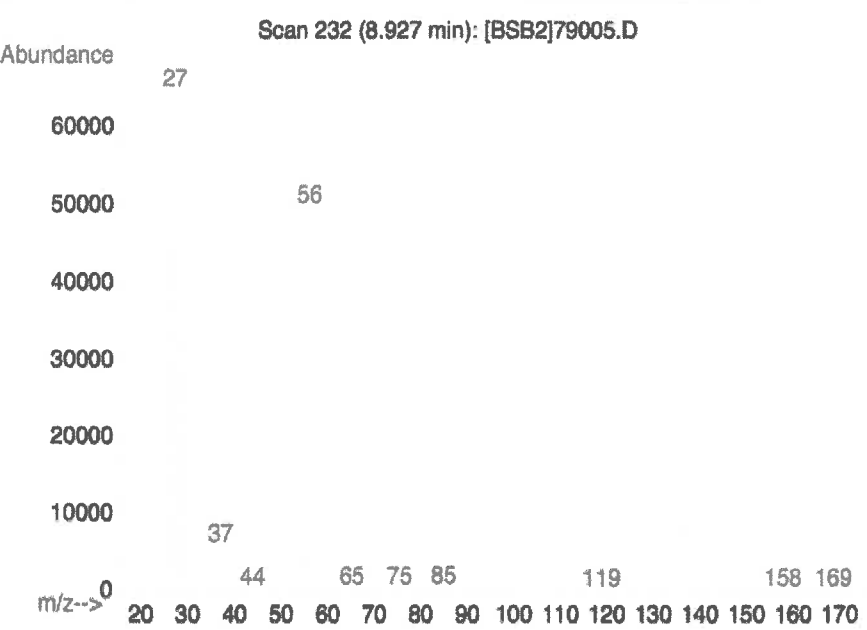
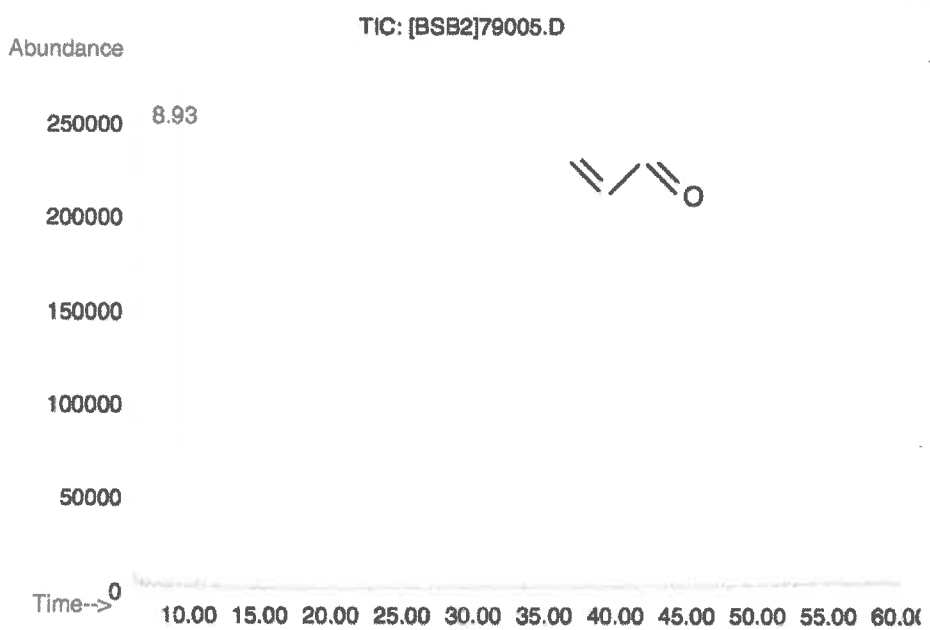
Expiration Date: 091325  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

V15057 + 0  
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
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          | 0.05176          | 5009.9              | 52.6                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)  
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately  
Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).  
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).  
Rev 1.0, 2/25/2025



Rec 08/14/25 2 via



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 081225  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 081225 |
| Formulated By: | Justin Dippold  | DATE   |
|                |                 | 081225 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

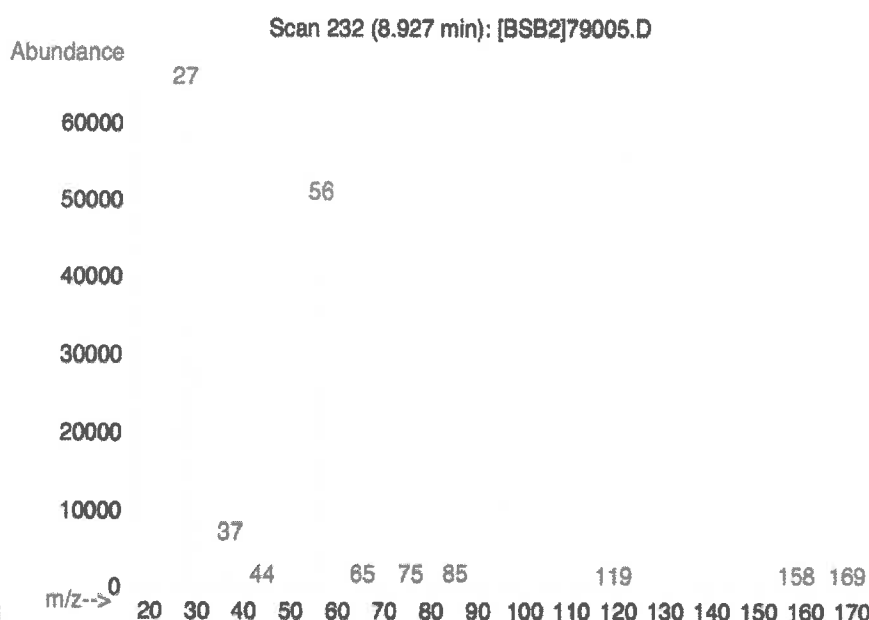
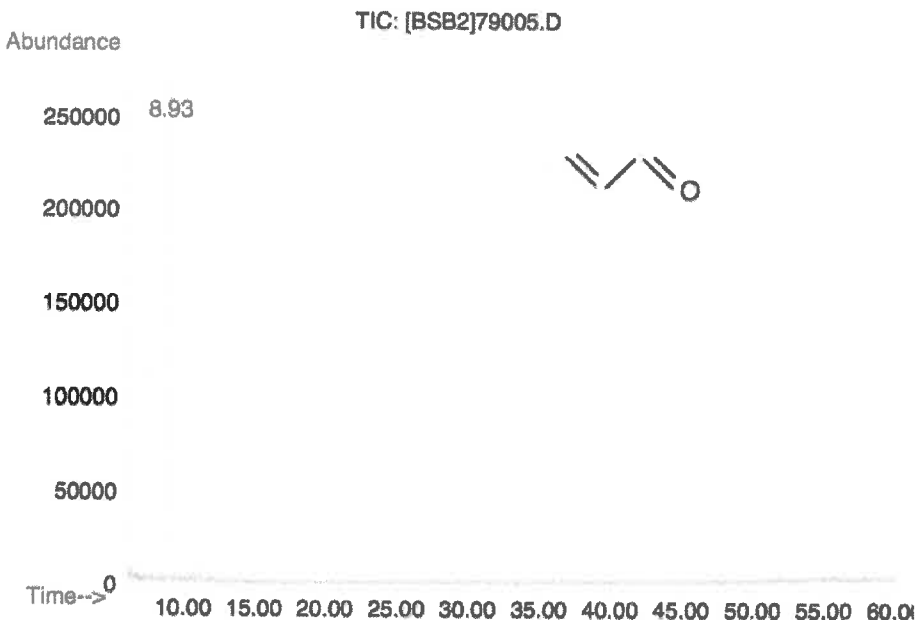
Expiration Date: 091225  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

V15062  
V15063

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Balance Uncertainty  
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   | 103755R02H | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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  
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- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Rev 1.0, 2/25/2025



Rec 08/14/25 2 via



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 081225  
Description: Acrolein

Solvent(s): Water  
Lot#: 041725Q

|                |                 |        |
|----------------|-----------------|--------|
|                |                 | 081225 |
| Formulated By: | Justin Dippold  | DATE   |
|                |                 | 081225 |
| Reviewed By:   | Pedro L. Rentas | DATE   |

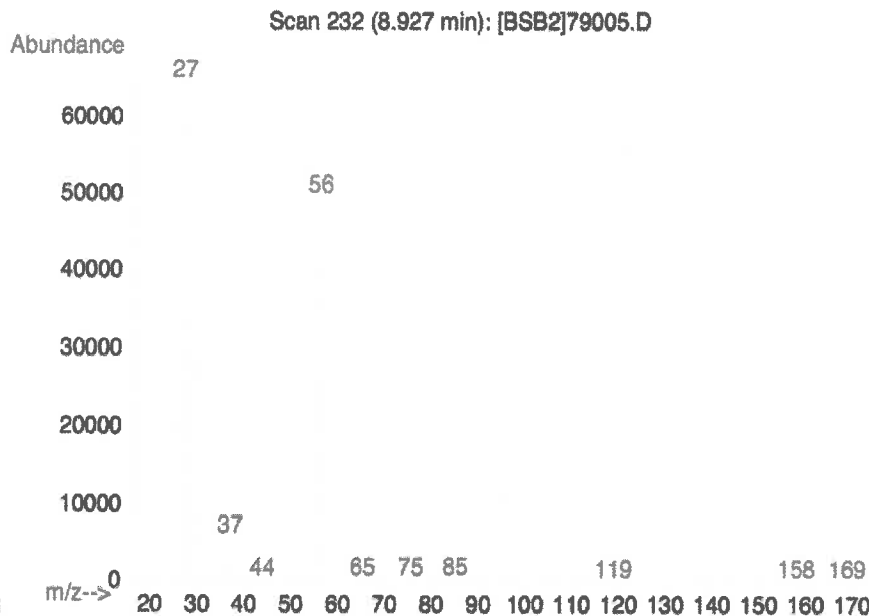
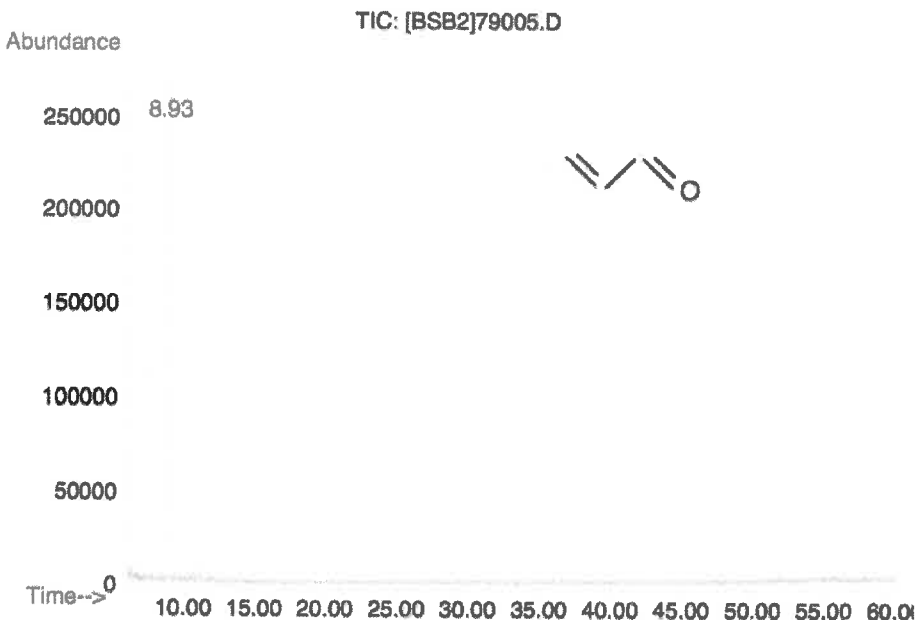
Expiration Date: 091225  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB

V15062  
V15063

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Balance Uncertainty  
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   | 103755R02H | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-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  
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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).
- Rev 1.0, 2/25/2025



# SHIPPING DOCUMENTS

|                                                                                                                                                                                |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|---|------------------|--|--|-----------------|----|--------------|---------------------------------------------------------------------------------------|------------|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|--|--|--|--|
| <b>CHEMTECH</b><br>CHAIN OF CUSTODY RECORD                                                                                                                                     |                                          | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 Fax: (908) 78-8922<br>www.chemtech.net |                                                                                                                                                                                                                                                                                                                                                                                               | Chemtech Project Number: <span style="float: right;">2 3016 3017</span> |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
|                                                                                                                                                                                |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               | COC Number:                                                             |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| <b>CLIENT INFORMATION</b>                                                                                                                                                      |                                          |                                                                                                       | <b>PROJECT INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | <b>BILLING INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| COMPANY: Tetra Tech                                                                                                                                                            |                                          |                                                                                                       | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | BILL TO: SEE CONTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |                                                                                      |   | PO#              |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ADDRESS: 4433 Corporation Ln, Suite 300                                                                                                                                        |                                          |                                                                                                       | PROJECT #: 112G08005-WE13      LOCATION: GW IDW                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CITY: Virginia Beach      STATE: VA      ZIP: 23462                                                                                                                            |                                          |                                                                                                       | PROJECT MANAGER: Ernie Wu                                                                                                                                                                                                                                                                                                                                                                     |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | CITY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |                                                                                      |   | STATE:      ZIP: |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ATTENTION: Ernie Wu                                                                                                                                                            |                                          |                                                                                                       | E-MAIL: ernie.wu@tetratech.com                                                                                                                                                                                                                                                                                                                                                                |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | ATTENTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                                                                                      |   | PHONE:           |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| PHONE: 757-466-4901      FAX: 757-461-4148                                                                                                                                     |                                          |                                                                                                       | PHONE: 757-466-4901      FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                    |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | <b>ANALYSIS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| <b>DATA TURNAROUND INFORMATION</b>                                                                                                                                             |                                          |                                                                                                       | <b>DATA DELIVERABLE INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                           |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs (EPA 624)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs (EPA 8082)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td colspan="4"></td> </tr> </table> |   |                                                                                      |   |                  |  |  | VOCs (EPA 624)  | pH | Total Metals | PCBs (EPA 8082)                                                                       |            |  |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |  |
| VOCs (EPA 624)                                                                                                                                                                 | pH                                       | Total Metals                                                                                          | PCBs (EPA 8082)                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 1                                                                                                                                                                              | 2                                        | 3                                                                                                     | 4                                                                                                                                                                                                                                                                                                                                                                                             | 5                                                                       | 6    | 7                                                                                                                                                                                                                                                                                                                                             | 8     | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| FAX: _____ 48hr _____ DAYS*<br>HARD COPY: _____ 48hr _____ DAYS*<br>EDD _____ 48hr _____ DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS |                                          |                                                                                                       | <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP<br><input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B"<br><input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"<br><input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____<br><input type="checkbox"/> EDD Format _____ |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       | <b>PRESERVATIVES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |                                                                                      |   |                  |  |  | <b>COMMENTS</b> |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| <b>CHEMTECH<br/>SAMPLE<br/>ID</b>                                                                                                                                              | <b>PROJECT<br/>SAMPLE IDENTIFICATION</b> |                                                                                                       | <b>SAMPLE<br/>MATRIX</b>                                                                                                                                                                                                                                                                                                                                                                      | <b>SAMPLE<br/>TYPE</b>                                                  |      | <b>SAMPLE<br/>COLLECTION</b>                                                                                                                                                                                                                                                                                                                  |       | # of Bottles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                                                                                      |   |                  |  |  |                 |    |              | <-- Specify Preservatives<br>A-HCl    B-HNO3<br>C-H2SO4    D-NaOH<br>E-ICE    F-Other |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
|                                                                                                                                                                                |                                          |                                                                                                       | COMP                                                                                                                                                                                                                                                                                                                                                                                          | GRAB                                                                    | DATE | TIME                                                                                                                                                                                                                                                                                                                                          | A     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   | B                                                                                    |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 1.                                                                                                                                                                             | BP-TB-20250903                           |                                                                                                       | QA                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | X    | 9/3/25                                                                                                                                                                                                                                                                                                                                        | 9:00  | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       | Trip Blank |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 2.                                                                                                                                                                             | TT-076-IDWGW-20250903                    |                                                                                                       | AQ                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | X    | 9/3/25                                                                                                                                                                                                                                                                                                                                        | 11:30 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 | 1                                                                                    | 1 | 1                |  |  |                 |    |              |                                                                                       | pH 1.0     |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 3.                                                                                                                                                                             | TT-077-IDWGW-20250903                    |                                                                                                       | AQ                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | X    | 9/3/25                                                                                                                                                                                                                                                                                                                                        | 11:40 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 | 1                                                                                    | 1 | 1                |  |  |                 |    |              |                                                                                       | I          |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 4.                                                                                                                                                                             | TT-078-IDWGW-20250903                    |                                                                                                       | AQ                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | X    | 9/3/25                                                                                                                                                                                                                                                                                                                                        | 11:50 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 | 1                                                                                    | 1 | 1                |  |  |                 |    |              |                                                                                       | I          |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 5.                                                                                                                                                                             | TT-079-IDWGW-20250903                    |                                                                                                       | AQ                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | X    | 9/3/25                                                                                                                                                                                                                                                                                                                                        | 12:00 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 | 1                                                                                    | 1 | 1                |  |  |                 |    |              |                                                                                       | I          |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 6.                                                                                                                                                                             |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 7.                                                                                                                                                                             |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 8.                                                                                                                                                                             |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 9.                                                                                                                                                                             |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 10.                                                                                                                                                                            |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| <b>SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY</b>                                                                  |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| RELINQUISHED BY SAMPLER                                                                                                                                                        |                                          | DATE/TIME                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                               | RECEIVED BY                                                             |      | Conditions of bottles or coolers at receipt:    Compliant    Non Compliant    Cooler Temp <u>23. C</u><br>MeOH extraction requires an additional 4oz. Jar for percent solid    Ice in Cooler?: <u>yes</u><br>Comments:<br>48hr TAT - CTO-WE13 Drilling GW IDW Sampling - Frac Tank #1 (TT076), #2 (TT077), #3 (TT078), #5 (079) <u>TPGunk</u> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 1. <u>[Signature]</u>                                                                                                                                                          |                                          | 9/3/25 1430                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                               | 1. <u>[Signature]</u>                                                   |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| RELINQUISHED BY                                                                                                                                                                |                                          | DATE/TIME                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                               | RECEIVED BY                                                             |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 2. <u>[Signature]</u>                                                                                                                                                          |                                          | 9/4/25 9:30                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                               | 2. <u>[Signature]</u>                                                   |      | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight<br>CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| RELINQUISHED BY                                                                                                                                                                |                                          | DATE/TIME                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                               | RECEIVED FOR LAB BY                                                     |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 3. <u>[Signature]</u>                                                                                                                                                          |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               | 3. <u>[Signature]</u>                                                   |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Page <u>1</u> of <u>1</u>                                                                                                                                                      |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   | <b>Shipment Complete</b><br><input type="checkbox"/> YES <input type="checkbox"/> NO |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |
| WHITE - CHEMTECH COPY FOR RETURN TO CLIENT    YELLOW - CHEMTECH COPY    PINK - SAMPLER COPY                                                                                    |                                          |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |      |                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                                                                      |   |                  |  |  |                 |    |              |                                                                                       |            |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |



## LOGIN REPORT/SAMPLE TRANSFER

|                                            |               |                                               |                              |
|--------------------------------------------|---------------|-----------------------------------------------|------------------------------|
| <b>Order ID :</b> Q3017                    | <b>TETR06</b> | <b>Order Date :</b> 9/4/2025 10:17:00 AM      | <b>Project Mgr :</b>         |
| <b>Client Name :</b> Tetra Tech NUS, Inc.  |               | <b>Project Name :</b> NWIRP Bethpage 112G080  | <b>Report Type :</b> Level 4 |
| <b>Client Contact :</b> Ernie Wu           |               | <b>Receive DateTime :</b> 9/4/2025 9:30:00 AM | <b>EDD Type :</b> ADAPT      |
| <b>Invoice Name :</b> Tetra Tech NUS, Inc. |               | <b>Purchase Order :</b>                       | <b>Hard Copy Date :</b>      |
| <b>Invoice Contact :</b> Ernie Wu          |               |                                               | <b>Date Signoff :</b>        |

| LAB ID   | CLIENT ID             | MATRIX | SAMPLE DATE                         | SAMPLE TIME | TEST          | TEST GROUP | METHOD | FAX DATE | DUE DATES   |
|----------|-----------------------|--------|-------------------------------------|-------------|---------------|------------|--------|----------|-------------|
| Q3017-01 | BP-TB-20250903        | Water  | <del>09/04/2025</del><br>09/03/2025 | 09:00       |               |            |        |          |             |
|          |                       |        |                                     |             | VOC-TCLVOA-10 |            | 624.1  |          | 2 Bus. Days |
| Q3017-02 | TT-076-IDWGW-20250903 | Water  | <del>09/04/2025</del><br>09/03/2025 | 11:30       |               |            |        |          |             |
|          |                       |        |                                     |             | VOC-TCLVOA-10 |            | 624.1  |          | 2 Bus. Days |
| Q3017-03 | TT-077-IDWGW-20250903 | Water  | <del>09/04/2025</del><br>09/03/2025 | 11:40       |               |            |        |          |             |
|          |                       |        |                                     |             | VOC-TCLVOA-10 |            | 624.1  |          | 2 Bus. Days |
| Q3017-04 | TT-078-IDWGW-20250903 | Water  | <del>09/04/2025</del><br>09/03/2025 | 11:50       |               |            |        |          |             |
|          |                       |        |                                     |             | VOC-TCLVOA-10 |            | 624.1  |          | 2 Bus. Days |
| Q3017-05 | TT-079-IDWGW-20250903 | Water  | <del>09/04/2025</del><br>09/03/2025 | 12:00       |               |            |        |          |             |
|          |                       |        |                                     |             | VOC-TCLVOA-10 |            | 624.1  |          | 2 Bus. Days |

Relinquished By : OR

Date / Time : 9/4/25 11:05

Received By : [Signature]

Date / Time : 9/4/25 11:05

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087452.D  
 Acq On : 05 Aug 2025 13:37  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Aug 06 01:26:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 66791               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 367765              | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 324158              | 30.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 185120              | 30.050 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.167% |        |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 166050              | 29.766 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 99.233%  |        |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 457922              | 30.702 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 102.333% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 19809               | 4.543  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 22193               | 4.960  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.542          | 62   | 23292               | 4.908  | ug/l   | 93       |
| 5) Bromomethane              | 2.977          | 94   | 11433               | 4.451  | ug/l   | 96       |
| 6) Chloroethane              | 3.136          | 64   | 15730               | 5.141  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.500          | 101  | 35964               | 5.266  | ug/l # | 81       |
| 8) Diethyl Ether             | 3.965          | 74   | 14911               | 5.241  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 19105               | 5.486  | ug/l   | 63       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 18969               | 5.185  | ug/l   | 96       |
| 11) Methyl Iodide            | 4.583          | 142  | 8335                | 2.908  | ug/l # | 88       |
| 12) Methyl Acetate           | 5.024          | 43   | 32749               | 4.851  | ug/l # | 91       |
| 13) Acrolein                 | 4.183          | 56   | 25602               | 24.838 | ug/l   | 92       |
| 14) Acrylonitrile            | 5.706          | 53   | 75304               | 25.546 | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 23455               | 27.848 | ug/l   | 88       |
| 16) Carbon Disulfide         | 4.706          | 76   | 60257               | 5.310  | ug/l   | 100      |
| 17) Allyl chloride           | 5.018          | 41   | 37245               | 4.995  | ug/l   | 91       |
| 18) Methylene Chloride       | 5.265          | 84   | 25316               | 5.377  | ug/l   | 87       |
| 19) trans-1,2-Dichloroethene | 5.759          | 96   | 9083                | 2.088  | ug/l   | 90       |
| 20) Diisopropyl ether        | 6.659          | 45   | 85498               | 5.036  | ug/l # | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 44299               | 5.045  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.465          | 96   | 27569               | 5.151  | ug/l # | 88       |
| 23) tert-Butyl Alcohol       | 5.524          | 59   | 33736               | 26.933 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 84726               | 5.083  | ug/l # | 69       |
| 25) Chloroform               | 7.947          | 83   | 47159               | 5.146  | ug/l   | 98       |
| 26) Cyclohexane              | 8.241          | 56   | 35104               | 4.994  | ug/l # | 93       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 31744               | 5.292  | ug/l   | 92       |
| 30) 2-Butanone               | 7.471          | 43   | 115688              | 26.165 | ug/l # | 83       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 41219               | 5.328  | ug/l # | 61       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 39911               | 5.217  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 32877               | 5.173  | ug/l   | 96       |
| 34) Benzene                  | 8.582          | 78   | 98586               | 5.207  | ug/l # | 81       |
| 35) Methacrylonitrile        | 7.771          | 41   | 25099               | 5.260  | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.647          | 62   | 40495               | 5.291  | ug/l   | 97       |
| 37) Trichloroethene          | 9.335          | 130  | 21742               | 5.213  | ug/l   | 92       |
| 38) Methylcyclohexane        | 9.577          | 83   | 36974               | 5.313  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 25889               | 5.333  | ug/l   | 91       |
| 40) Dibromomethane           | 9.688          | 93   | 19402               | 5.327  | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.871          | 83   | 40582               | 5.362  | ug/l # | 95       |
| 42) Vinyl Acetate            | 6.594          | 43   | 374548              | 25.723 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087452.D  
 Acq On : 05 Aug 2025 13:37  
 Operator : JC\MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Quant Time: Aug 06 01:26:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

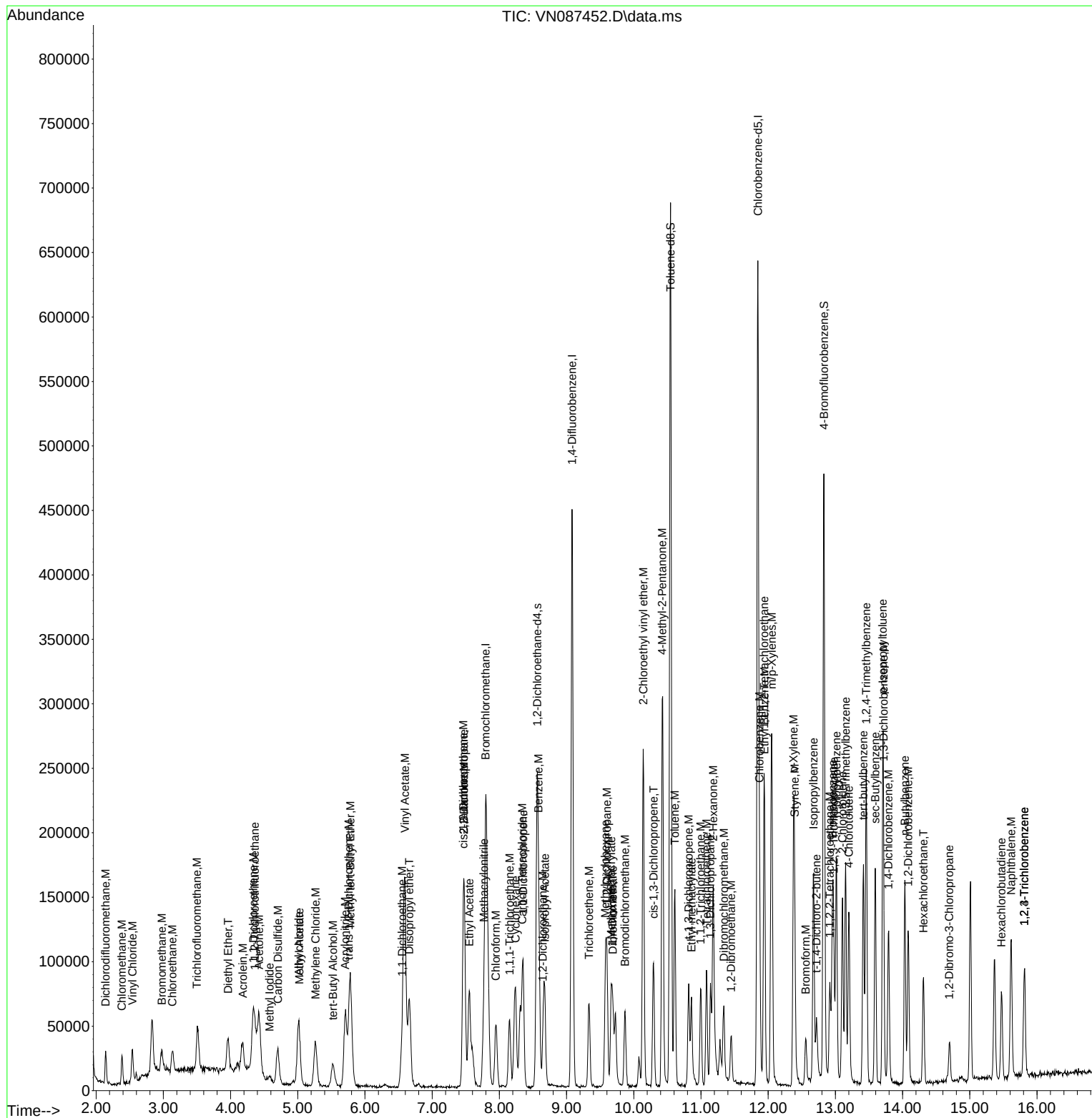
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 42509    | 5.051   | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 75250    | 5.197   | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 9597     | 103.972 | ug/l # | 85       |
| 46) Methyl methacrylate       | 9.665  | 41   | 35322    | 5.168   | ug/l   | 98       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 41412    | 5.029   | ug/l   | 95       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 42124    | 5.083   | ug/l # | 94       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 23578    | 5.123   | ug/l   | 93       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 36705    | 4.529   | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 42828    | 5.166   | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.341 | 129  | 26196    | 4.929   | ug/l   | 95       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 24555    | 5.026   | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 114298   | 26.788  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 16434    | 4.675   | ug/l # | 78       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 219603   | 26.335  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.182 | 43   | 130616   | 23.053  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 17278    | 5.471   | ug/l   | 92       |
| 62) Toluene                   | 10.612 | 91   | 106690   | 5.333   | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 65821    | 5.354   | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 23260    | 5.381   | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.947 | 91   | 116379   | 5.219   | ug/l   | 97       |
| 67) m/p-Xylenes               | 12.053 | 106  | 85967    | 10.503  | ug/l   | 96       |
| 68) o-Xylene                  | 12.376 | 106  | 42724    | 5.306   | ug/l   | 95       |
| 69) Styrene                   | 12.394 | 104  | 67893    | 4.938   | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 104723   | 5.119   | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 37401    | 5.336   | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 49891    | 6.924   | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 25284    | 5.331   | ug/l   | 94       |
| 74) n-propylbenzene           | 13.018 | 91   | 134786   | 5.275   | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 84827    | 5.397   | ug/l   | 95       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 92128    | 5.259   | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 10355    | 4.189   | ug/l   | 79       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 83697    | 5.255   | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 77933    | 5.277   | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 90309    | 5.159   | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 113073   | 5.259   | ug/l   | 97       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 95127    | 5.329   | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.717 | 146  | 47197    | 5.226   | ug/l   | 96       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 47756    | 5.216   | ug/l   | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 89004    | 5.096   | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 17680    | 5.072   | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 43857    | 5.087   | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 9336     | 5.257   | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 26729    | 5.188   | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 11972    | 5.976   | ug/l   | 80       |
| 91) Naphthalene               | 15.617 | 128  | 97646    | 4.971   | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 26729    | 5.188   | ug/l   | 98       |

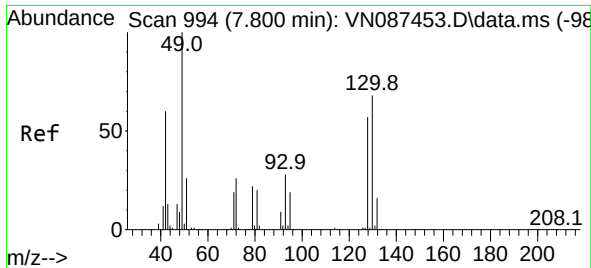
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
Data File : VN087452.D  
Acq On : 05 Aug 2025 13:37  
Operator : JC\MD  
Sample : VSTDIC005  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Quant Time: Aug 06 01:26:38 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration

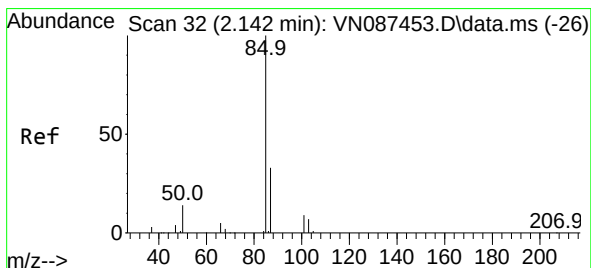
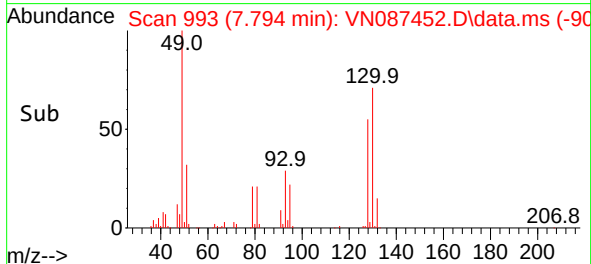
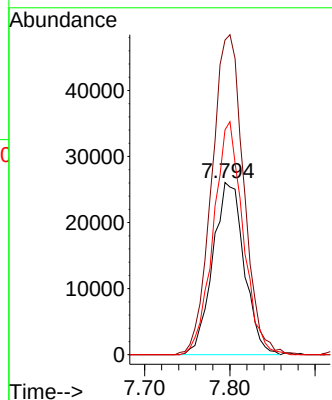
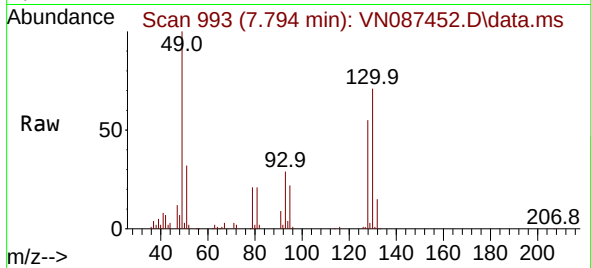




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

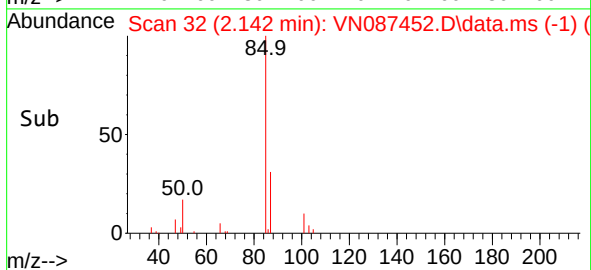
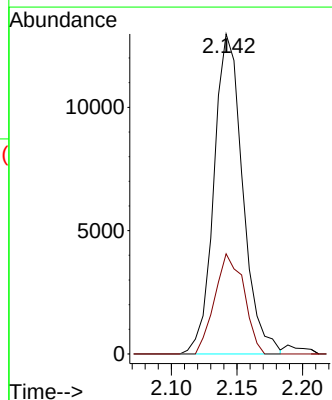
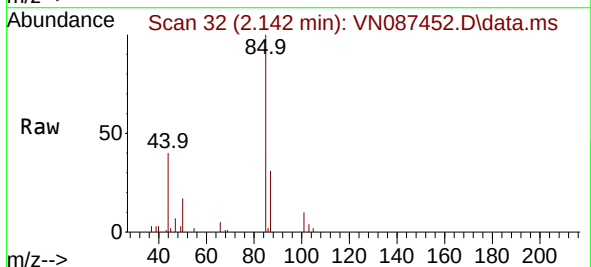
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

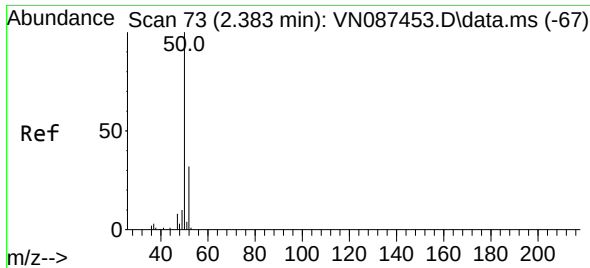
Tgt Ion:128 Resp: 66791  
Ion Ratio Lower Upper  
128 100  
49 189.1 0.0 494.8  
130 128.0 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 4.543 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 85 Resp: 19809  
Ion Ratio Lower Upper  
85 100  
87 31.3 16.4 49.2

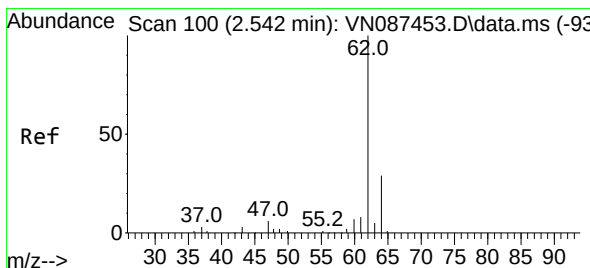
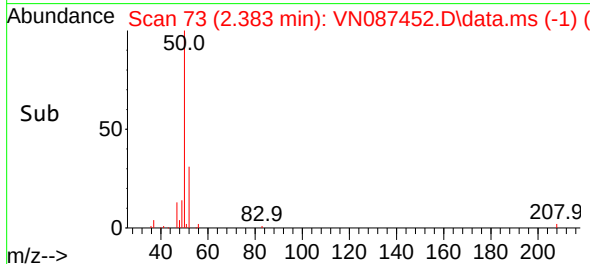
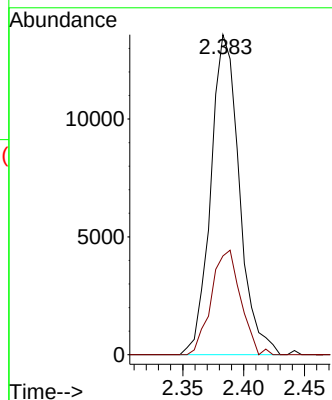
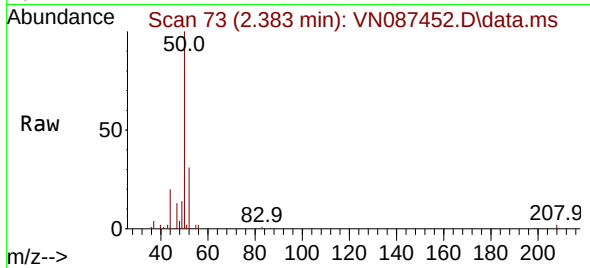




#3  
Chloromethane  
Concen: 4.960 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

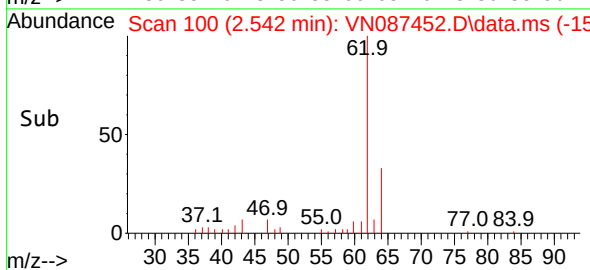
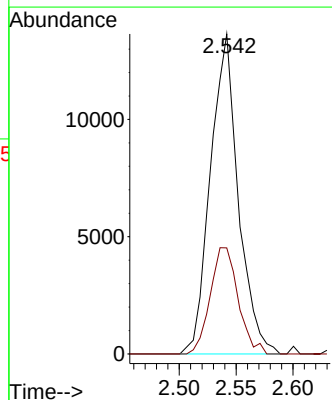
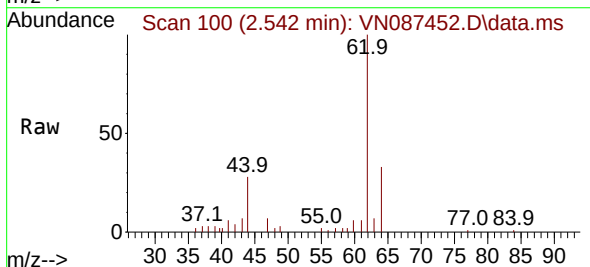
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

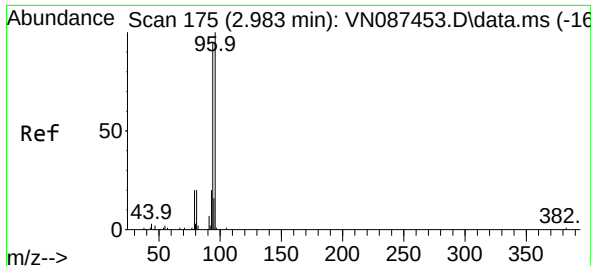
Tgt Ion: 50 Resp: 22193  
Ion Ratio Lower Upper  
50 100  
52 30.8 25.8 38.6



#4  
Vinyl Chloride  
Concen: 4.908 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 62 Resp: 23292  
Ion Ratio Lower Upper  
62 100  
64 33.2 23.4 35.2

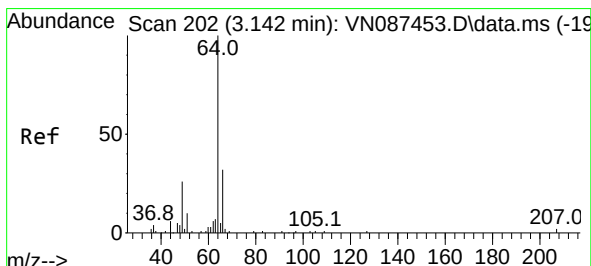
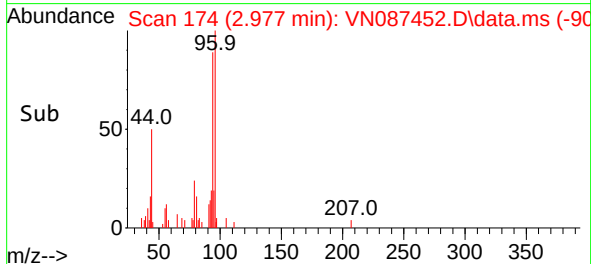
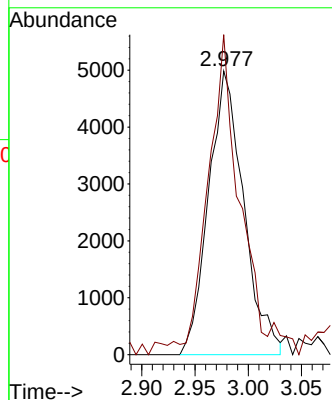
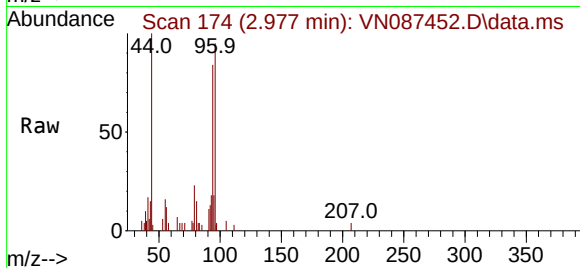




#5  
Bromomethane  
Concen: 4.451 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

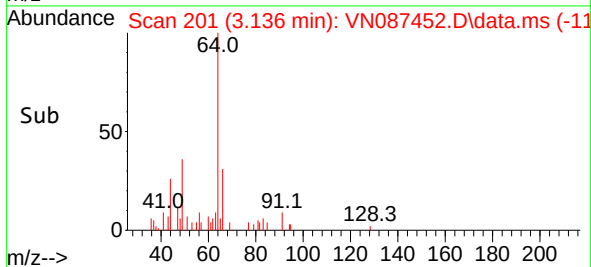
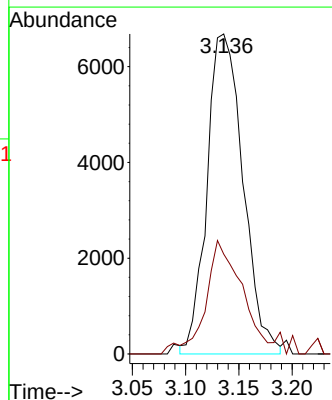
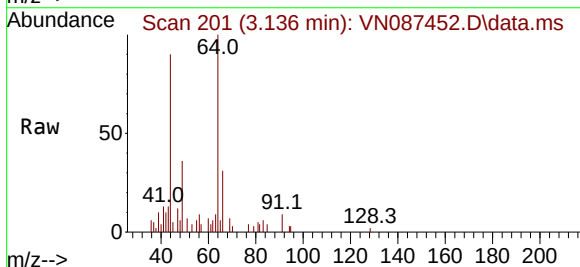
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

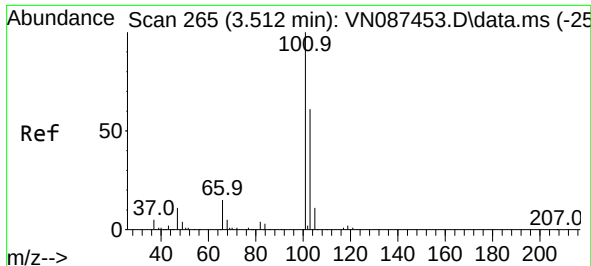
Tgt Ion: 94 Resp: 11433  
Ion Ratio Lower Upper  
94 100  
96 109.2 84.2 126.4



#6  
Chloroethane  
Concen: 5.141 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 64 Resp: 15730  
Ion Ratio Lower Upper  
64 100  
66 29.2 25.4 38.0

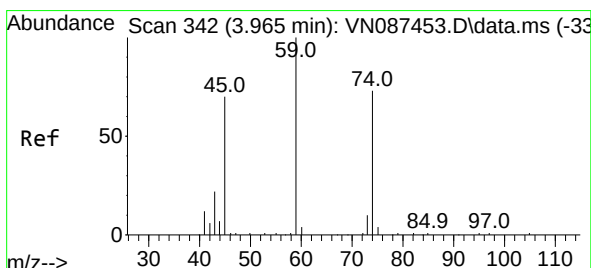
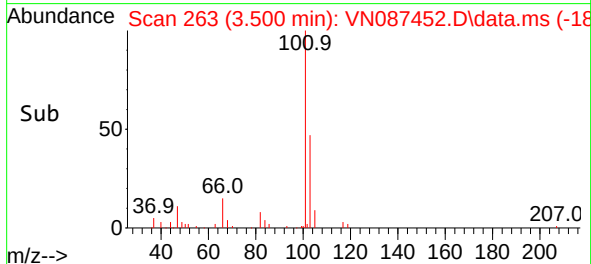
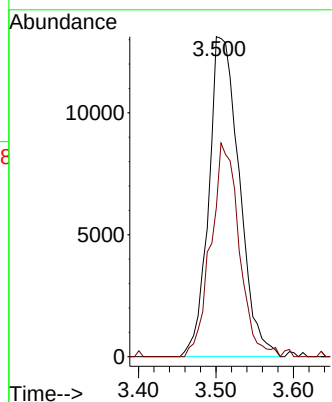
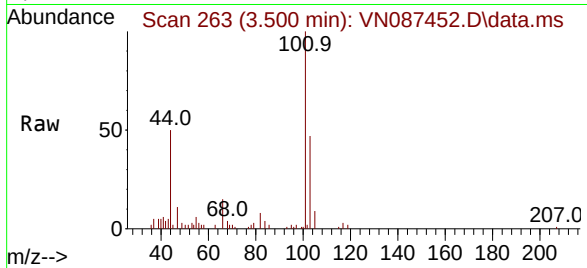




#7  
 Trichlorofluoromethane  
 Concen: 5.266 ug/l  
 RT: 3.500 min Scan# 265  
 Delta R.T. -0.012 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

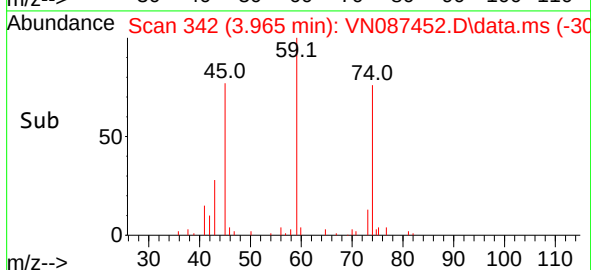
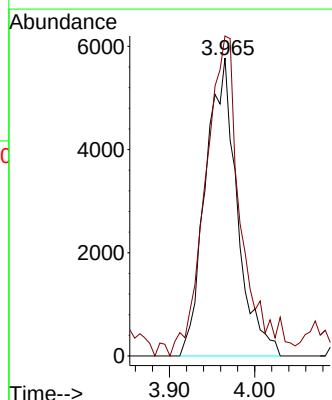
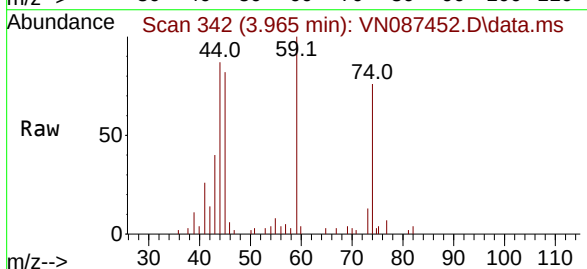
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Tgt Ion:101 Resp: 35964  
 Ion Ratio Lower Upper  
 101 100  
 103 46.7 49.2 73.8#

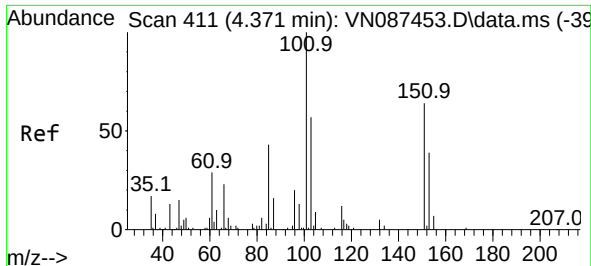


#8  
 Diethyl Ether  
 Concen: 5.241 ug/l  
 RT: 3.965 min Scan# 342  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

Tgt Ion: 74 Resp: 14911  
 Ion Ratio Lower Upper  
 74 100  
 45 105.9 20.1 180.9



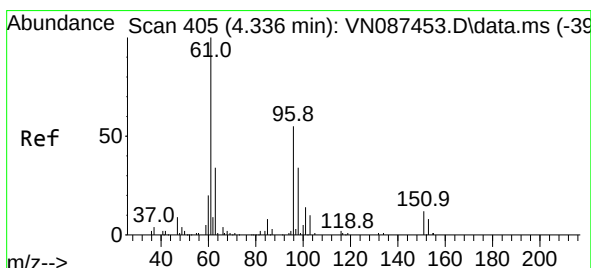
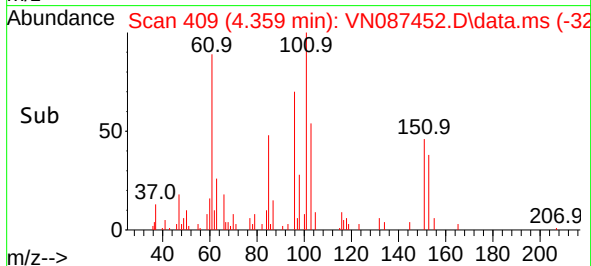
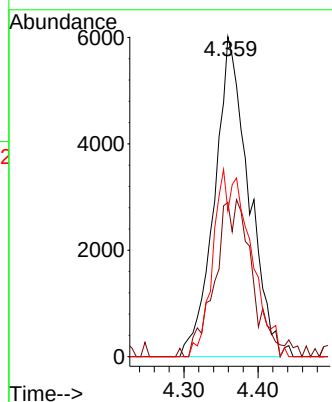
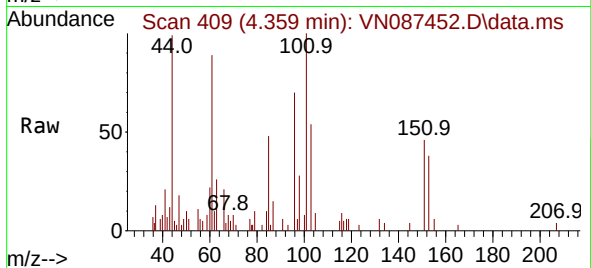




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.486 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. -0.012 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

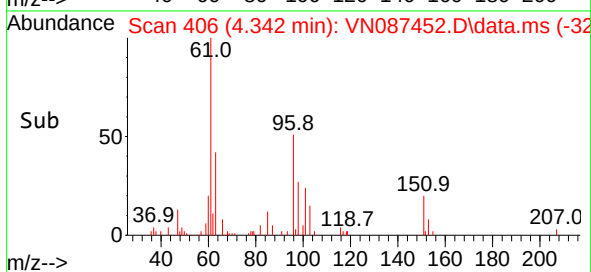
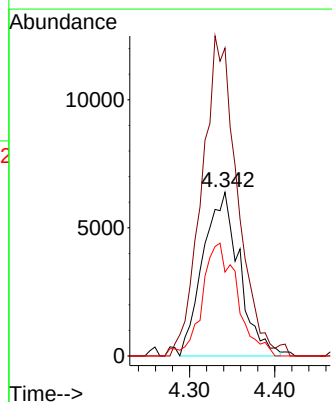
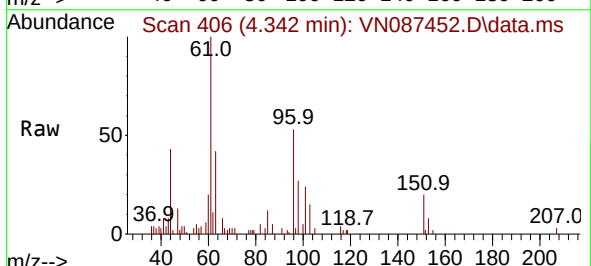
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

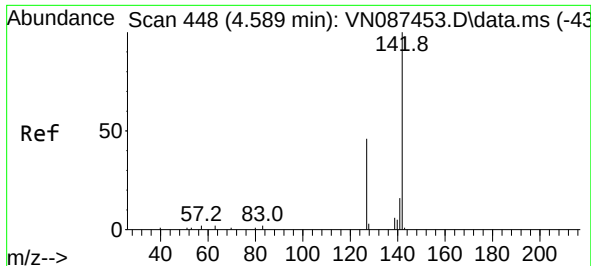
Tgt Ion:101 Resp: 19105  
Ion Ratio Lower Upper  
101 100  
85 24.4 0.0 57.0  
151 27.5 0.0 134.2



#10  
1,1-Dichloroethene  
Concen: 5.185 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 96 Resp: 18969  
Ion Ratio Lower Upper  
96 100  
61 181.6 144.2 216.4  
98 51.2 49.7 74.5

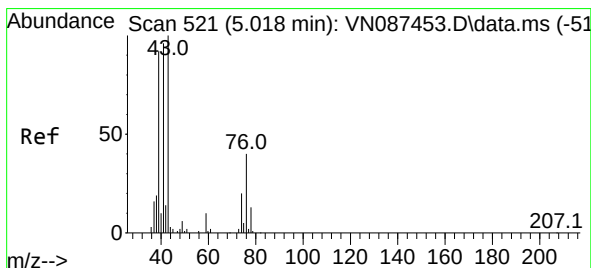
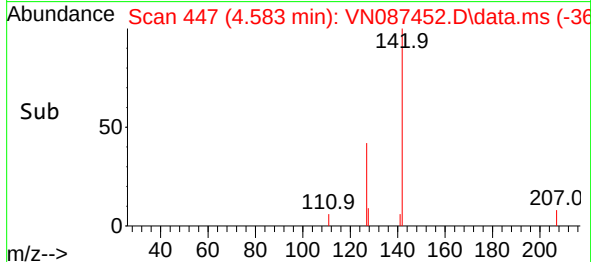
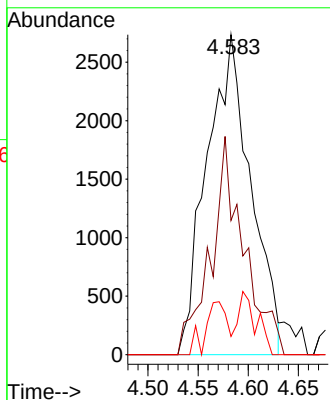
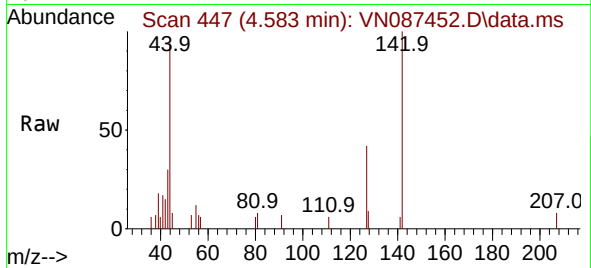




#11  
Methyl Iodide  
Concen: 2.908 ug/l  
RT: 4.583 min Scan# 448  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

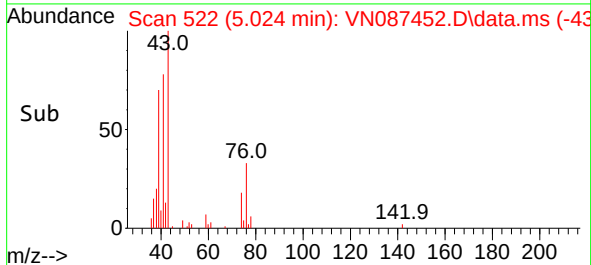
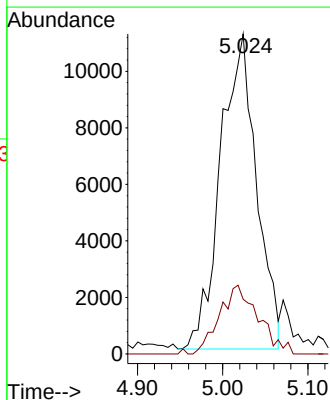
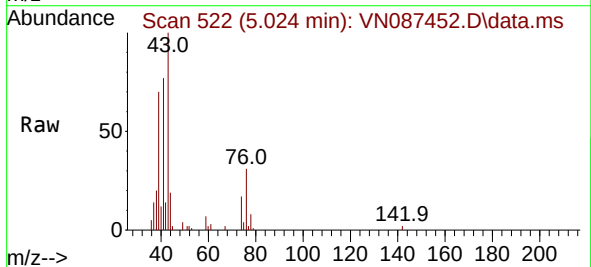
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

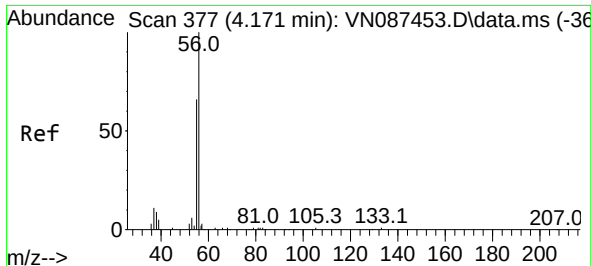
Tgt Ion:142 Resp: 8335  
Ion Ratio Lower Upper  
142 100  
127 40.4 22.9 68.7  
141 6.0 7.7 23.1#



#12  
Methyl Acetate  
Concen: 4.851 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 32749  
Ion Ratio Lower Upper  
43 100  
74 15.8 16.0 24.0#

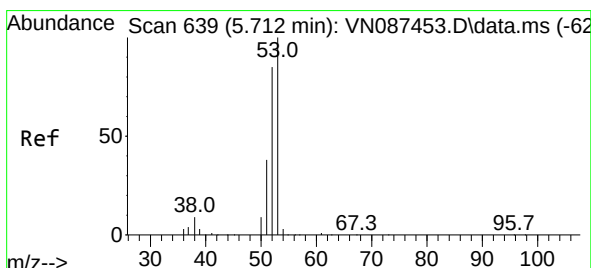
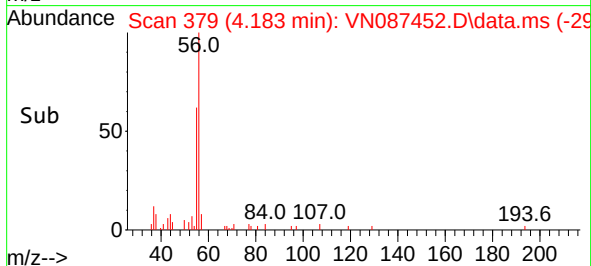
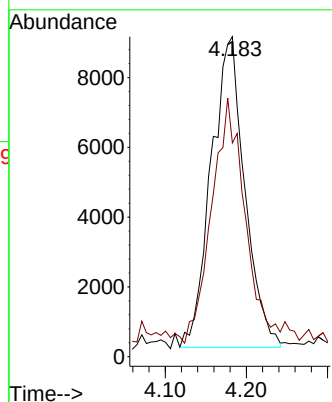
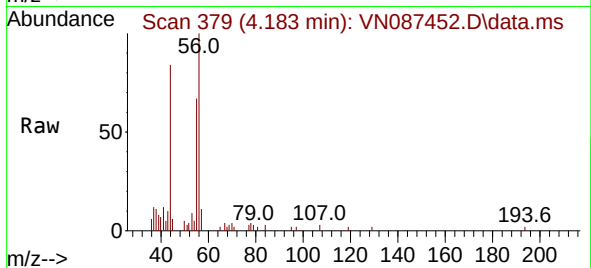




#13  
Acrolein  
Concen: 24.838 ug/l  
RT: 4.183 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

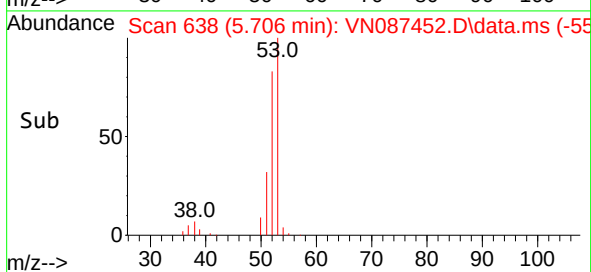
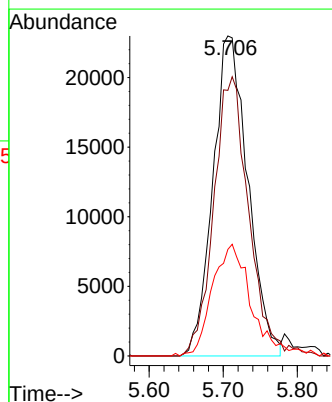
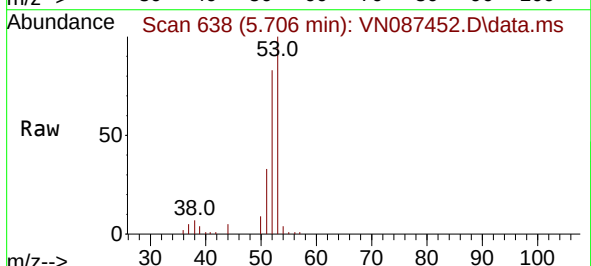
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

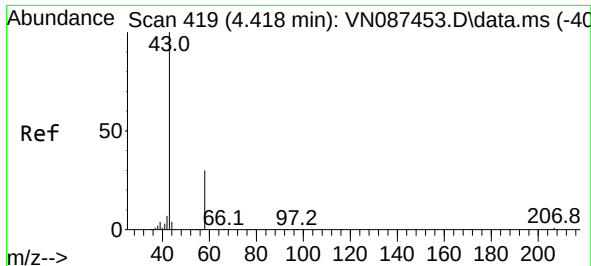
Tgt Ion: 56 Resp: 25602  
Ion Ratio Lower Upper  
56 100  
55 78.3 57.4 86.0



#14  
Acrylonitrile  
Concen: 25.546 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 53 Resp: 75304  
Ion Ratio Lower Upper  
53 100  
52 86.2 42.4 127.2  
51 37.1 18.5 55.5

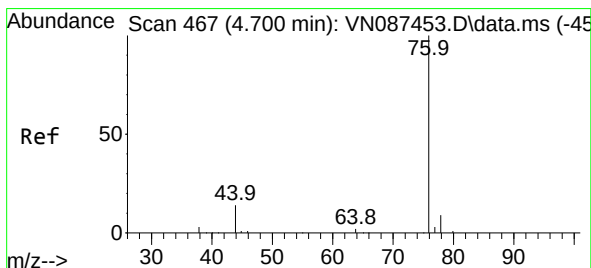
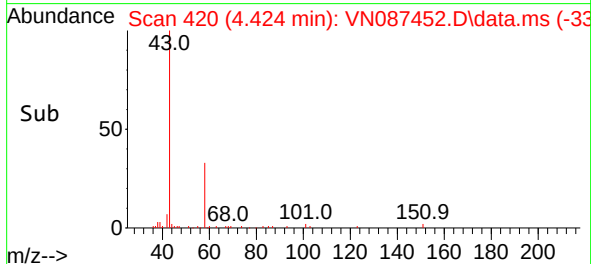
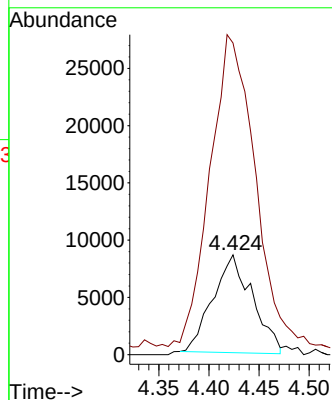
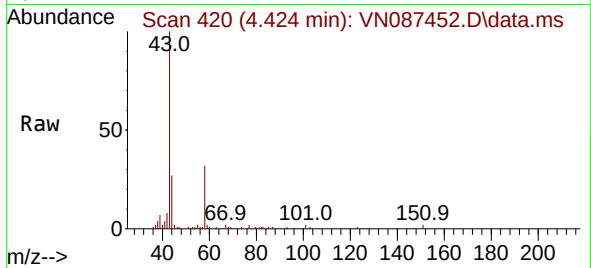




#15  
Acetone  
Concen: 27.848 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

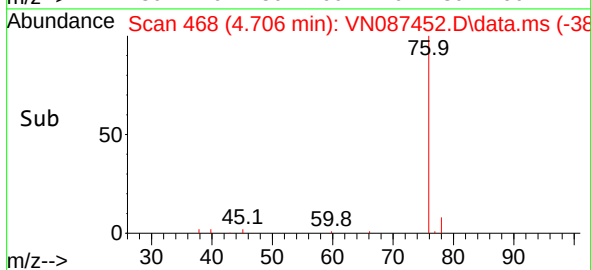
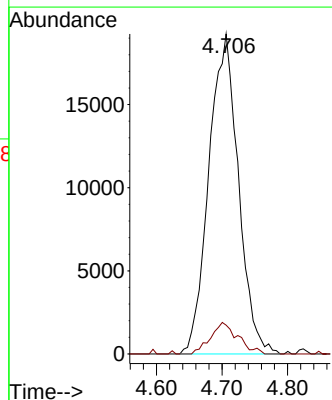
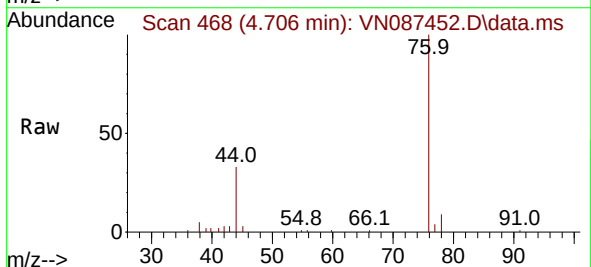
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

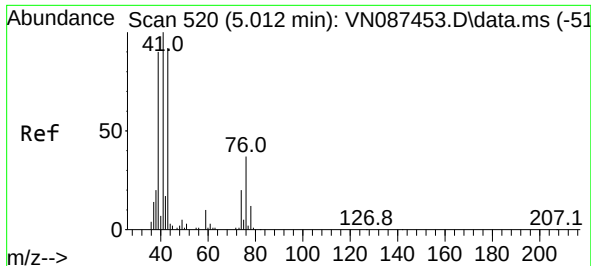
Tgt Ion: 58 Resp: 23455  
Ion Ratio Lower Upper  
58 100  
43 309.8 268.9 403.3



#16  
Carbon Disulfide  
Concen: 5.310 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 76 Resp: 60257  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7





#17

Allyl chloride

Concen: 4.995 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

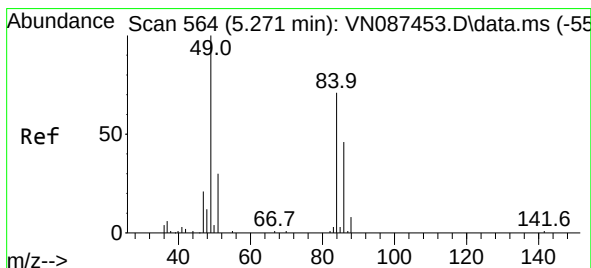
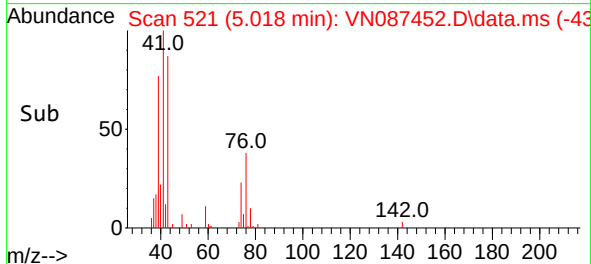
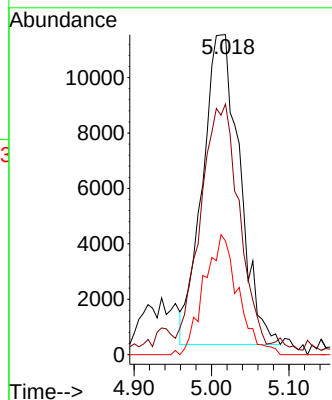
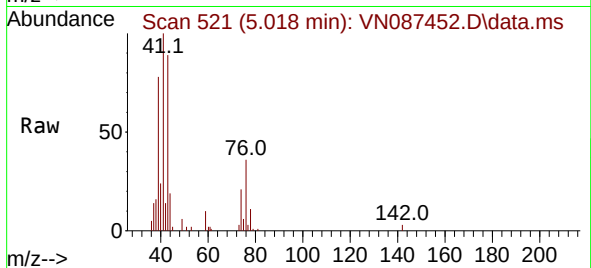
Tgt Ion: 41 Resp: 37245

Ion Ratio Lower Upper

41 100

39 75.5 42.4 127.2

76 36.7 16.9 50.6



#18

Methylene Chloride

Concen: 5.377 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion: 84 Resp: 25316

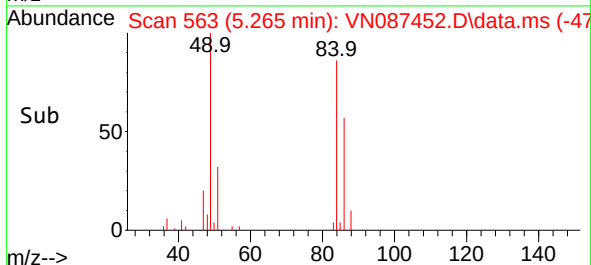
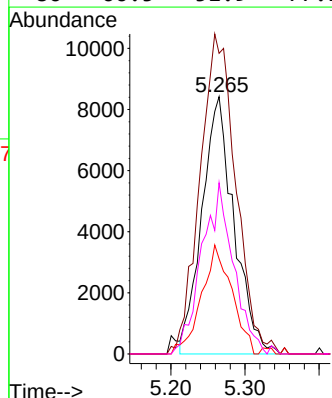
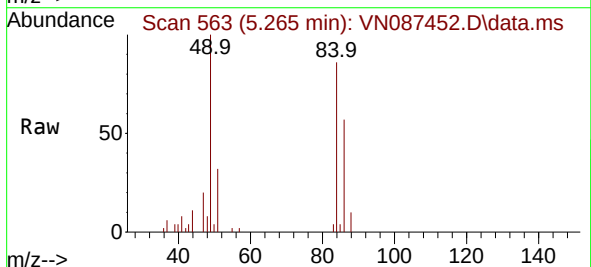
Ion Ratio Lower Upper

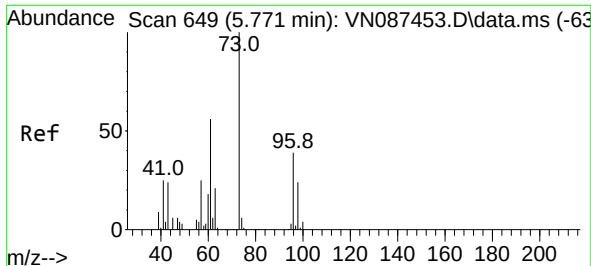
84 100

49 116.9 112.9 169.3

51 37.0 33.8 50.8

86 66.5 51.9 77.9

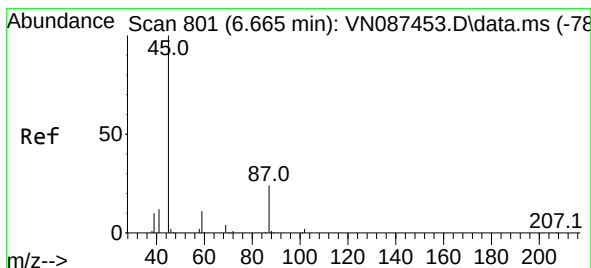
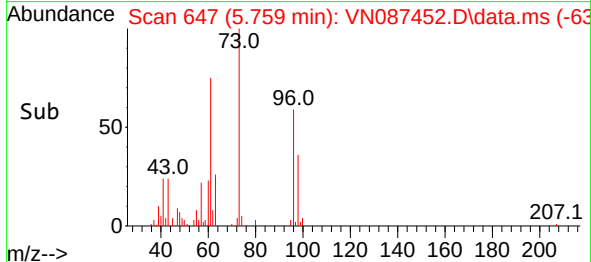
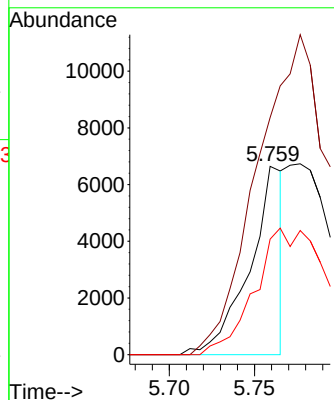
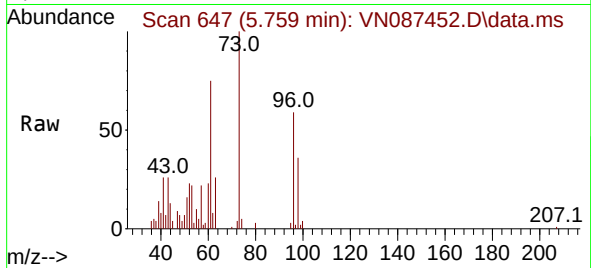




#19  
trans-1,2-Dichloroethene  
Concen: 2.088 ug/l  
RT: 5.759 min Scan# 649  
Delta R.T. -0.012 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

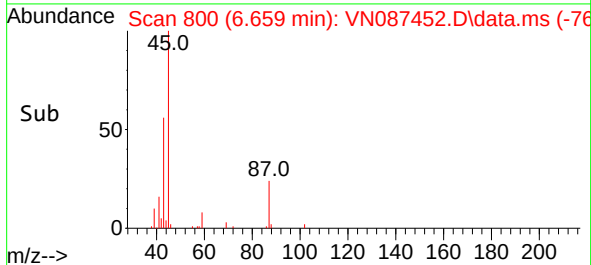
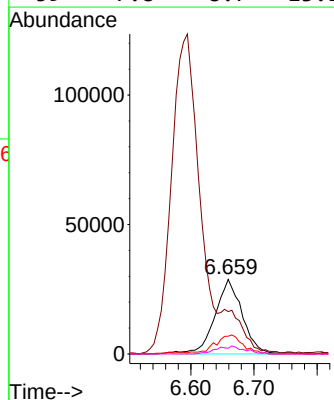
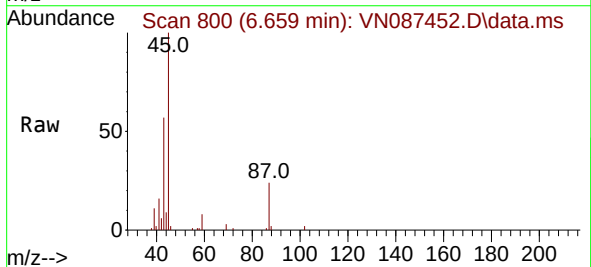
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

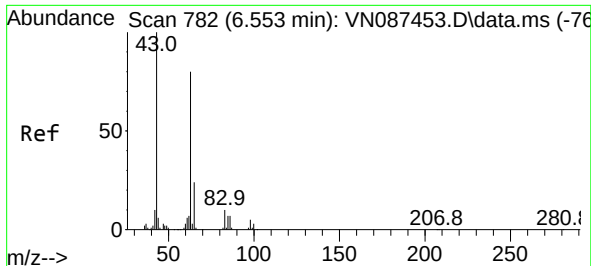
Tgt Ion: 96 Resp: 9083  
Ion Ratio Lower Upper  
96 100  
61 125.9 114.2 171.4  
98 61.4 48.7 73.1



#20  
Diisopropyl ether  
Concen: 5.036 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 45 Resp: 85498  
Ion Ratio Lower Upper  
45 100  
43 56.1 44.7 67.1  
87 24.1 20.2 30.2  
59 7.8 8.7 13.1#





#21

1,1-Dichloroethane

Concen: 5.045 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

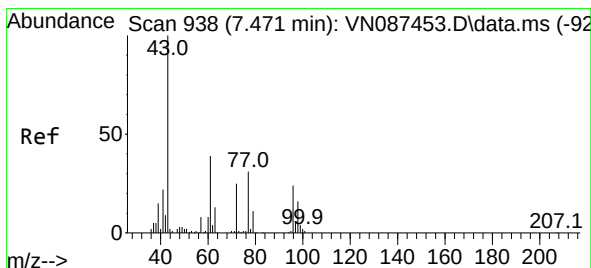
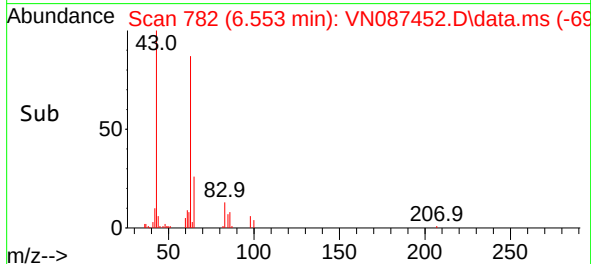
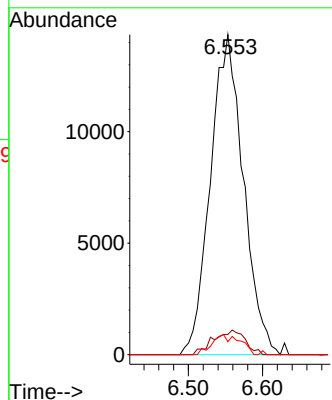
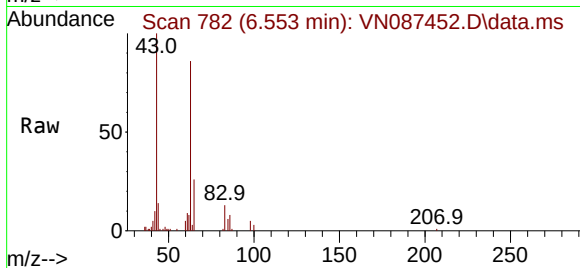
Tgt Ion: 63 Resp: 44299

Ion Ratio Lower Upper

63 100

98 6.4 3.0 9.0

100 4.1 1.9 5.7



#22

cis-1,2-Dichloroethene

Concen: 5.151 ug/l

RT: 7.465 min Scan# 937

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

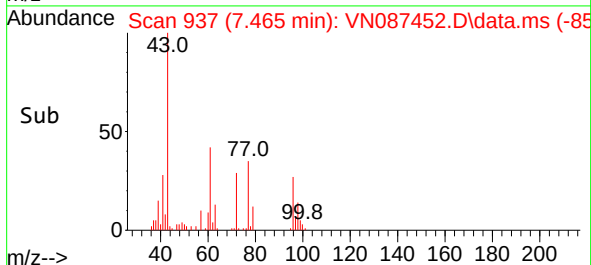
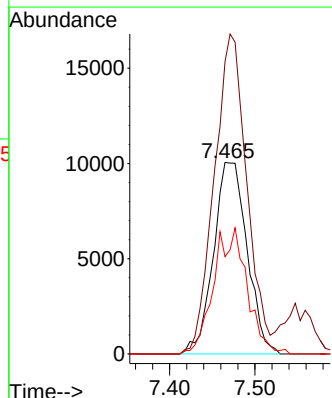
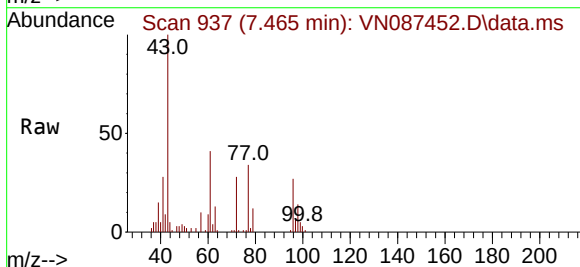
Tgt Ion: 96 Resp: 27569

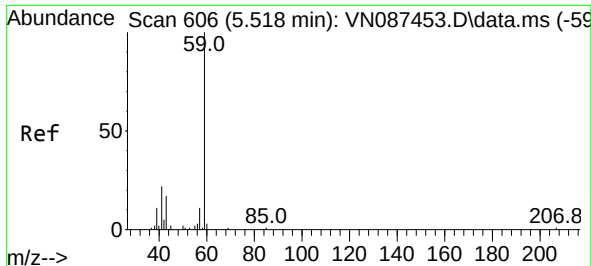
Ion Ratio Lower Upper

96 100

61 161.4 126.6 190.0

98 36.7 50.9 76.3#

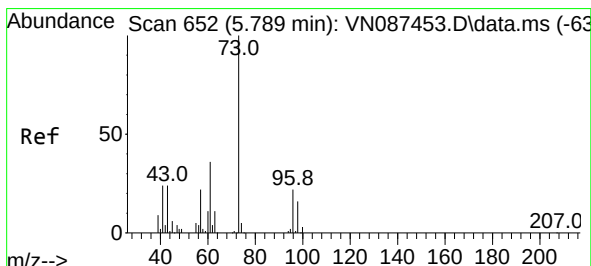
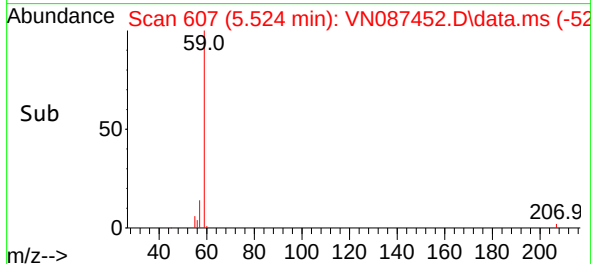
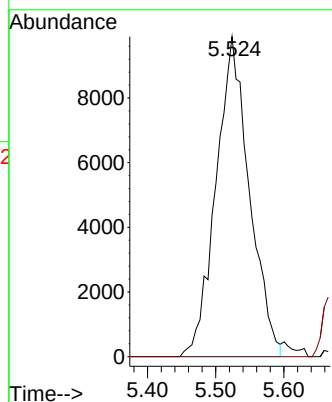
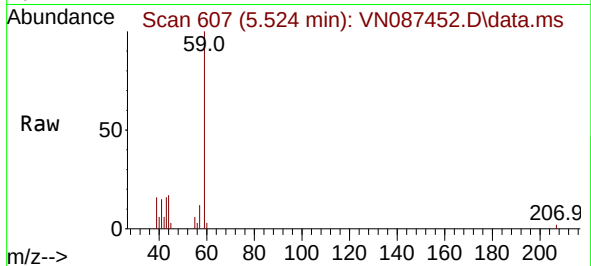




#23  
tert-Butyl Alcohol  
Concen: 26.933 ug/l  
RT: 5.524 min Scan# 606  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

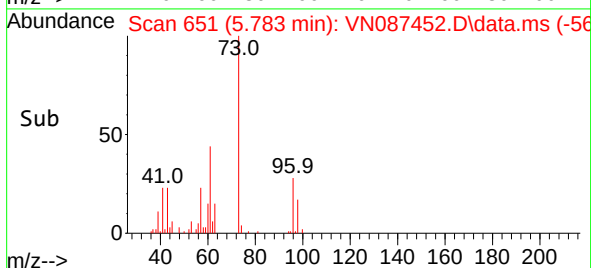
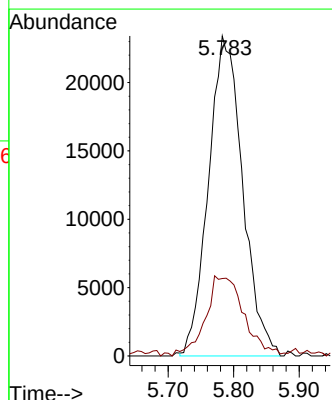
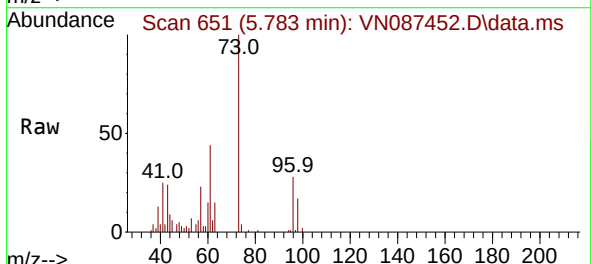
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 59 Resp: 33736  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

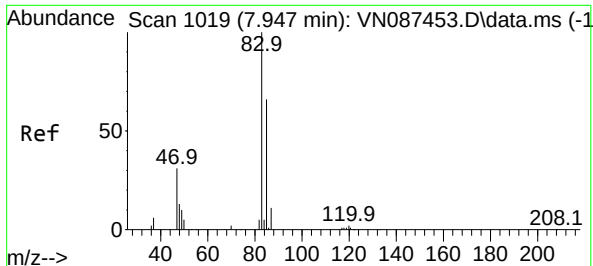


#24  
Methyl tert-Butyl Ether  
Concen: 5.083 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 73 Resp: 84726  
Ion Ratio Lower Upper  
73 100  
43 9.1 19.9 29.9#







#25

Chloroform

Concen: 5.146 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

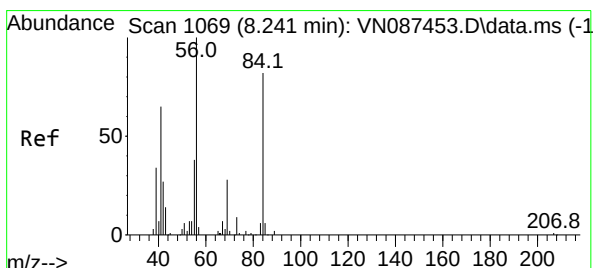
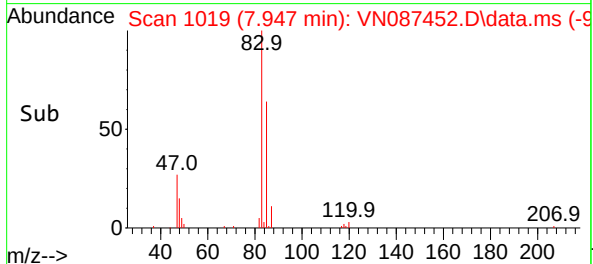
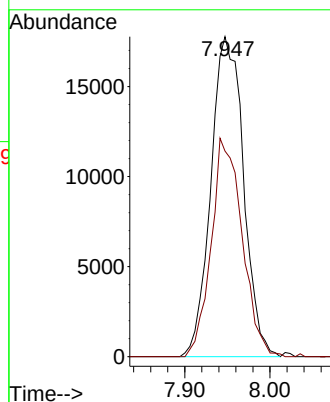
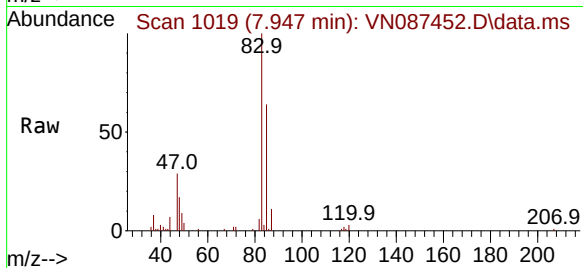
VSTDIC005

Tgt Ion: 83 Resp: 47159

Ion Ratio Lower Upper

83 100

85 64.3 52.6 78.8



#26

Cyclohexane

Concen: 4.994 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

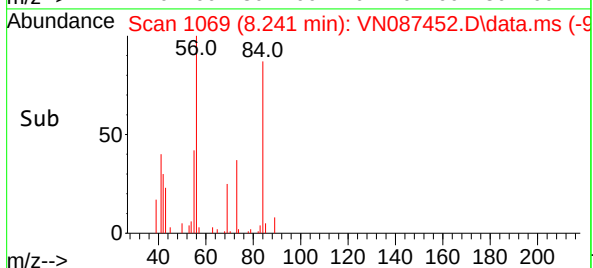
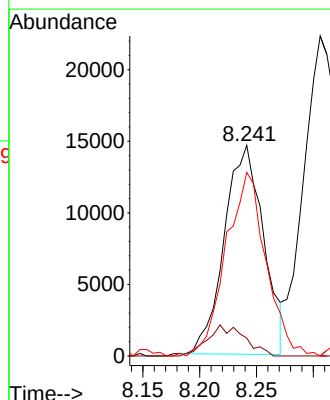
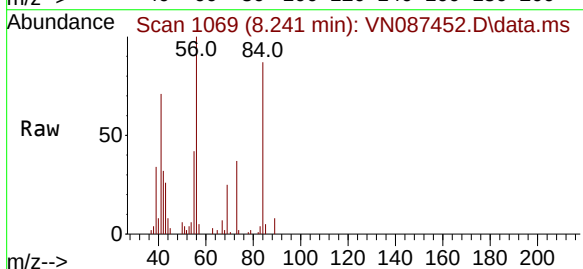
Tgt Ion: 56 Resp: 35104

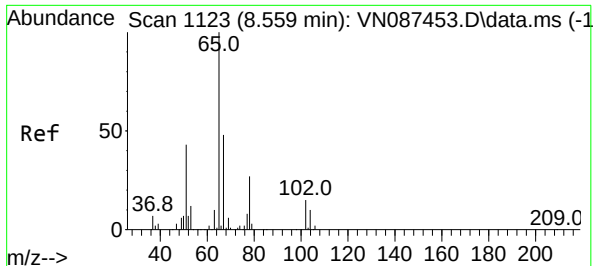
Ion Ratio Lower Upper

56 100

89 7.6 2.3 3.5#

84 89.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.050 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

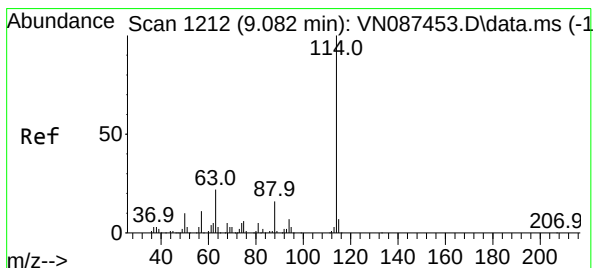
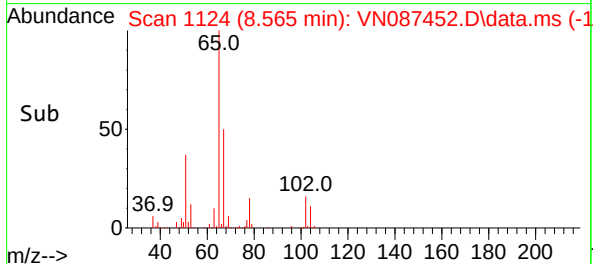
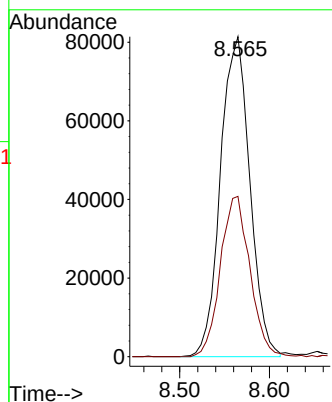
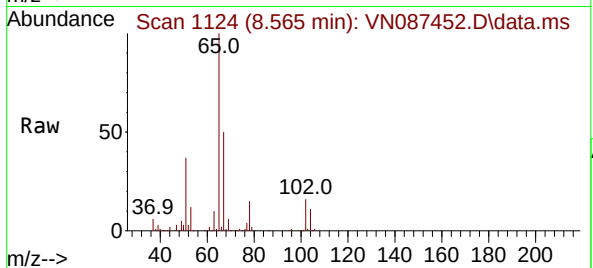
VSTDIC005

Tgt Ion: 65 Resp: 185120

Ion Ratio Lower Upper

65 100

67 50.3 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

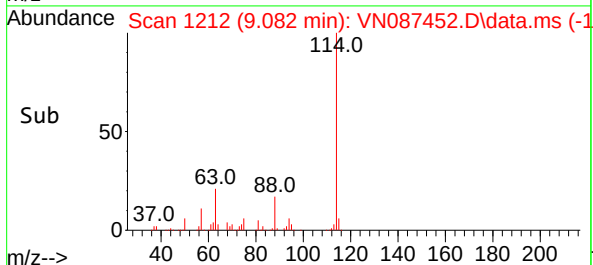
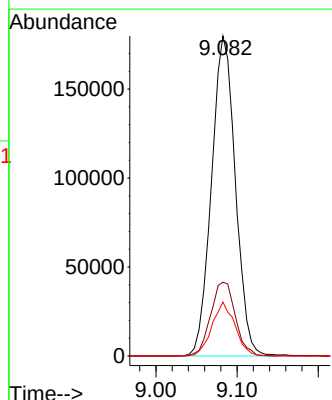
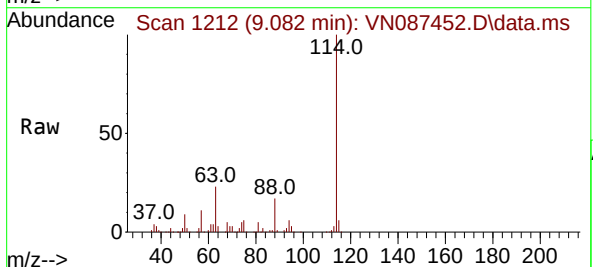
Tgt Ion: 114 Resp: 367765

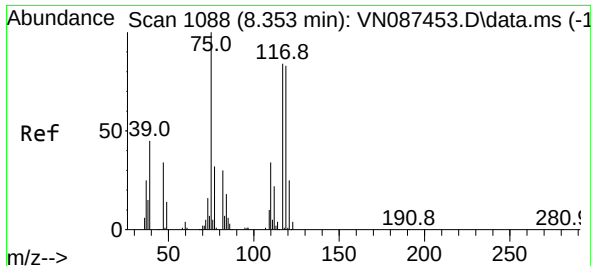
Ion Ratio Lower Upper

114 100

63 23.8 18.9 28.3

88 16.3 13.1 19.7

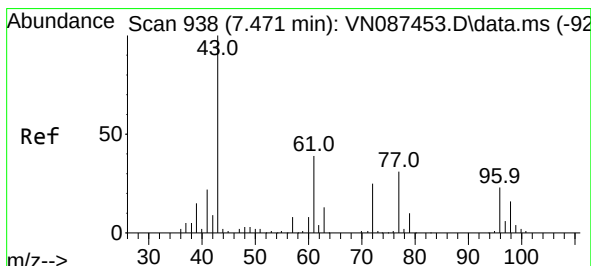
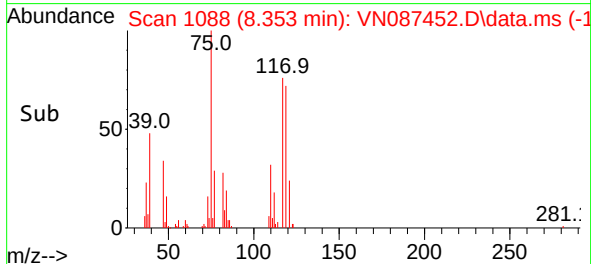
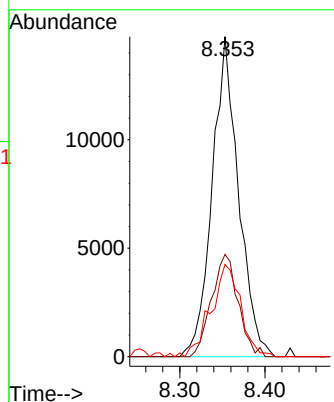
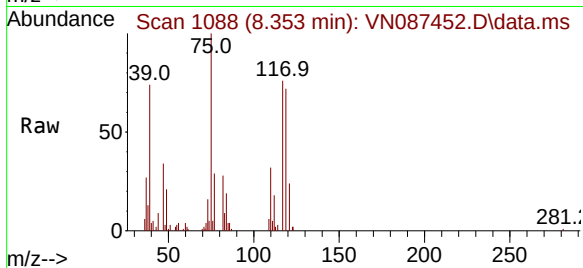




#29  
1,1-Dichloropropene  
Concen: 5.292 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

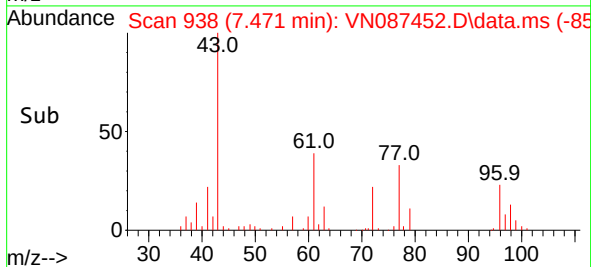
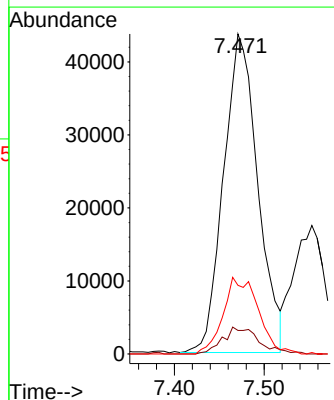
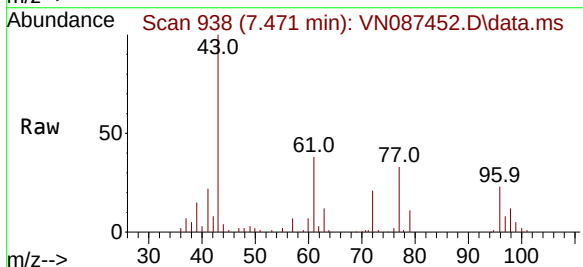
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

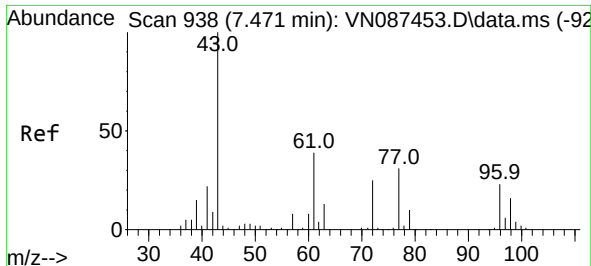
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 31744 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 32.2    | 0.0 65.8    |
| 77 23.6     | 0.0 63.6    |



#30  
2-Butanone  
Concen: 26.165 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 115688 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 5.2      | 6.6 9.8#     |
| 72 14.5     | 19.7 29.5#   |

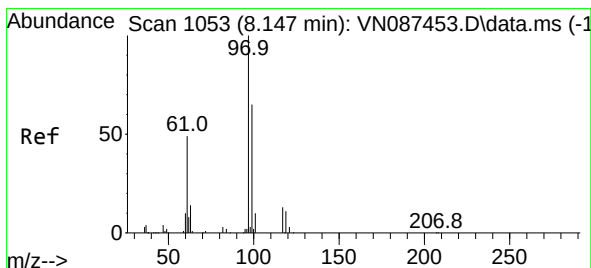
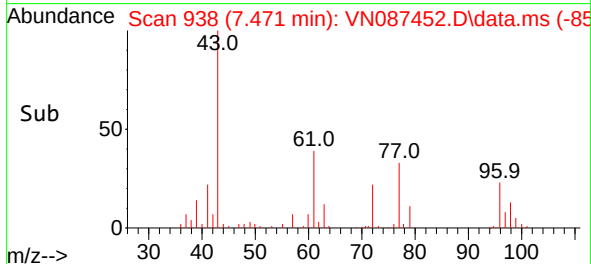
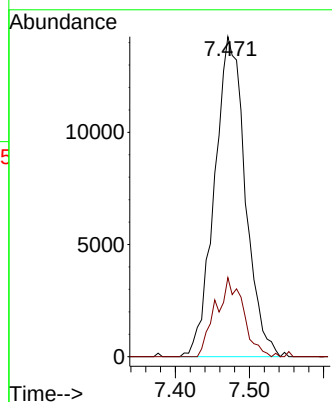
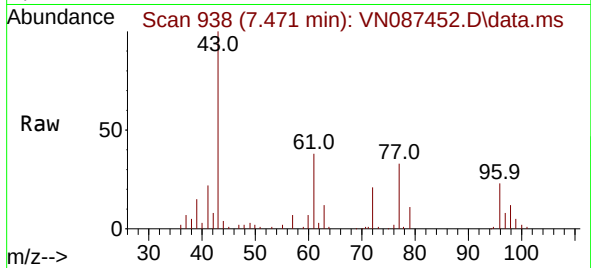




#31  
2,2-Dichloropropane  
Concen: 5.328 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

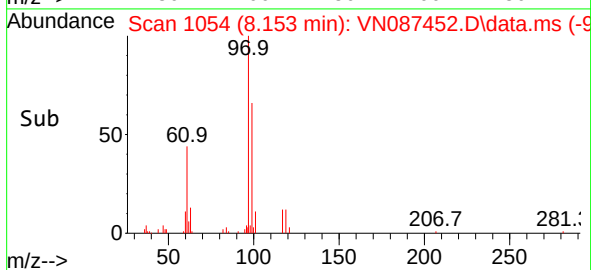
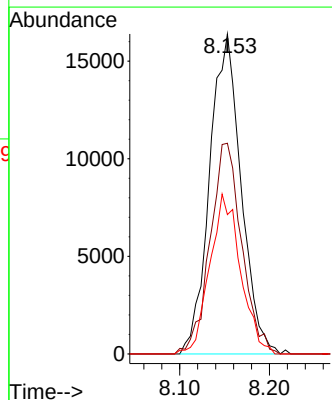
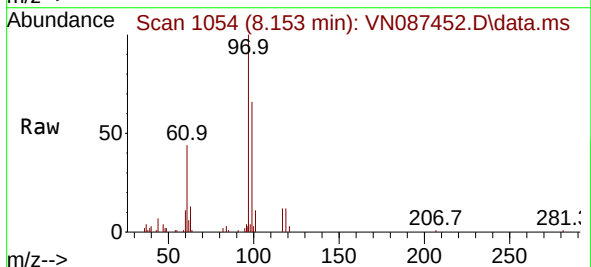
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

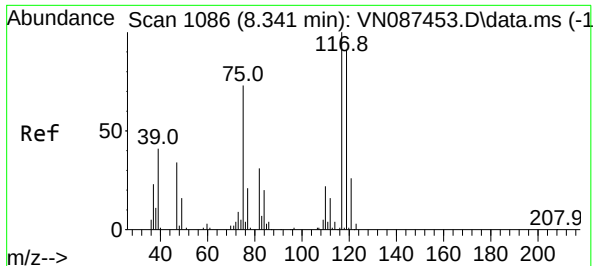
Tgt Ion: 77 Resp: 41219  
Ion Ratio Lower Upper  
77 100  
97 2.7 16.7 25.1#



#32  
1,1,1-Trichloroethane  
Concen: 5.217 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 97 Resp: 39911  
Ion Ratio Lower Upper  
97 100  
99 66.1 53.0 79.6  
61 48.9 40.6 61.0

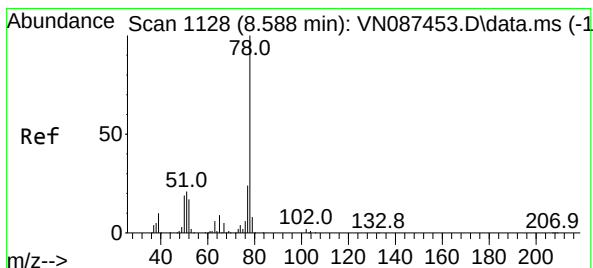
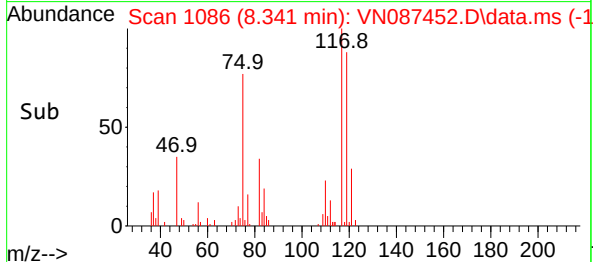
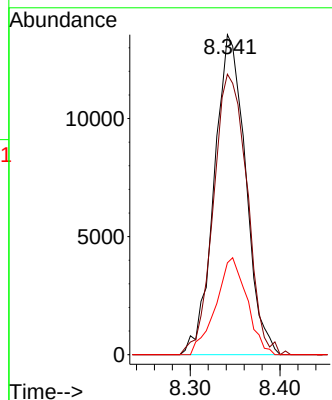
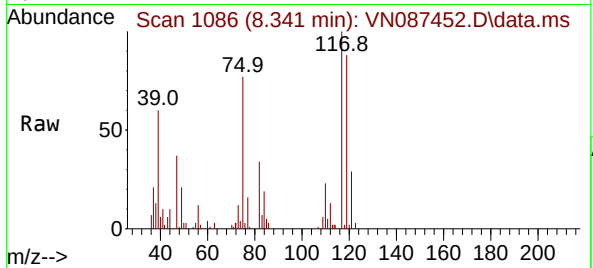




#33  
Carbon Tetrachloride  
Concen: 5.173 ug/l  
RT: 8.341 min Scan# 1107  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

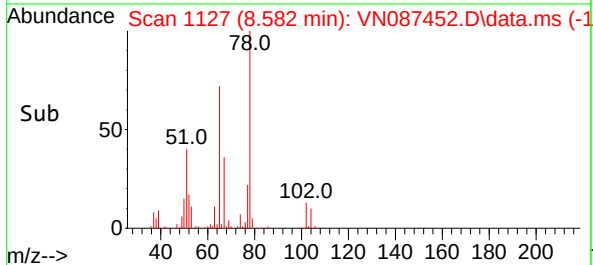
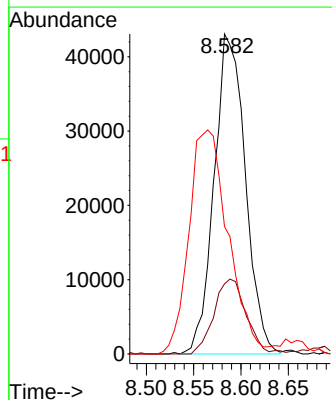
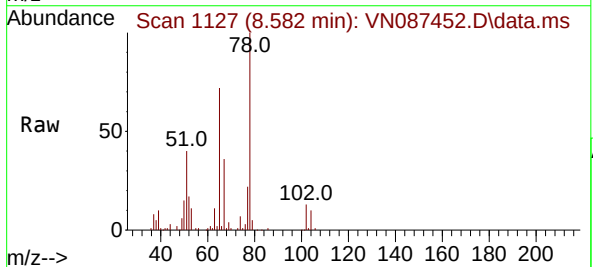
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

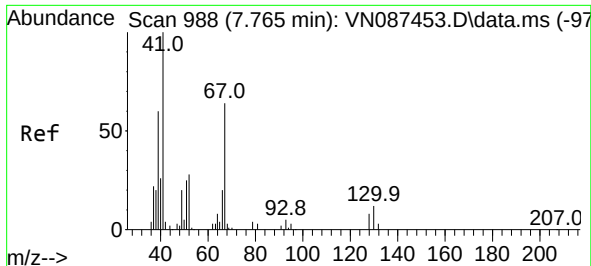
Tgt Ion:117 Resp: 32877  
Ion Ratio Lower Upper  
117 100  
119 87.6 73.4 110.0  
121 28.7 21.1 31.7



#34  
Benzene  
Concen: 5.207 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 78 Resp: 98586  
Ion Ratio Lower Upper  
78 100  
77 21.9 19.2 28.8  
51 37.4 16.9 25.3#

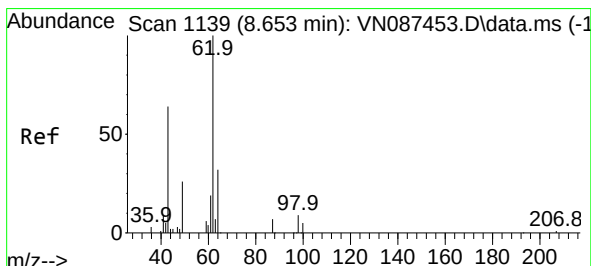
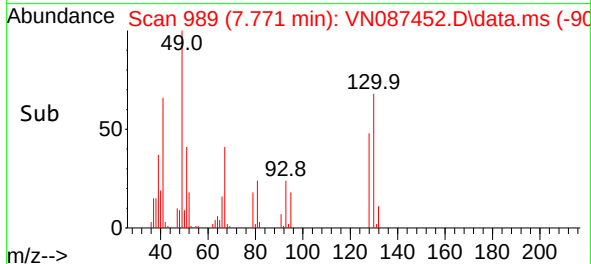
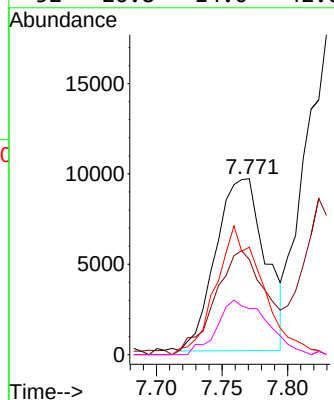
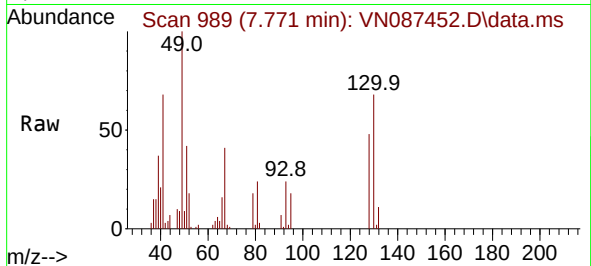




#35  
Methacrylonitrile  
Concen: 5.260 ug/l  
RT: 7.771 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

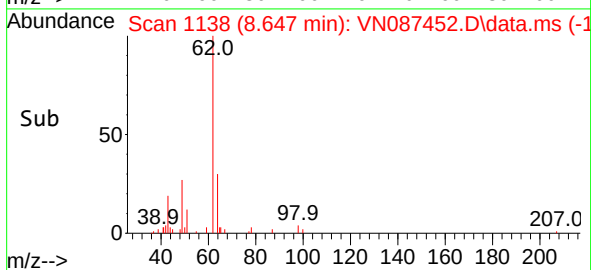
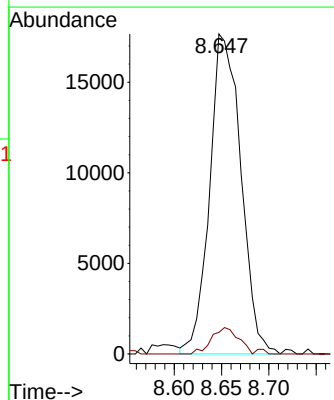
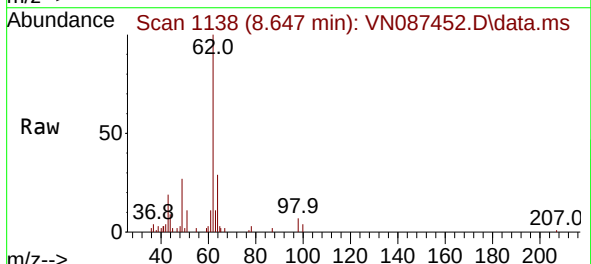
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

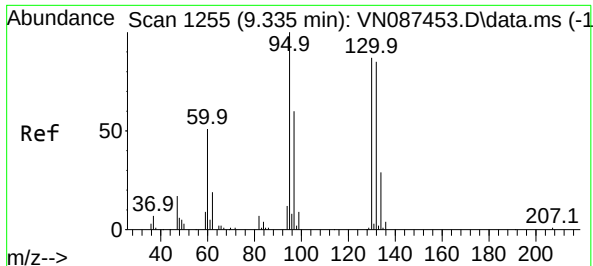
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 25099 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 39        | 52.8  | 30.1  | 90.5  |
| 67        | 58.9  | 32.0  | 96.2  |
| 52        | 26.8  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 5.291 ug/l  
RT: 8.647 min Scan# 1138  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 62    | Resp: | 40495 |
| Ion Ratio | Lower | Upper |       |
| 62        | 100   |       |       |
| 98        | 7.1   | 6.6   | 9.8   |





#37

Trichloroethene

Concen: 5.213 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

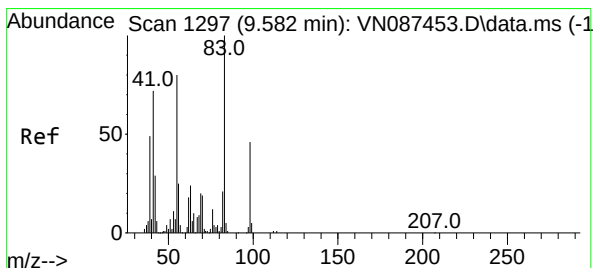
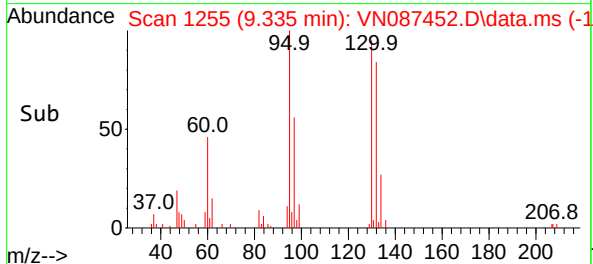
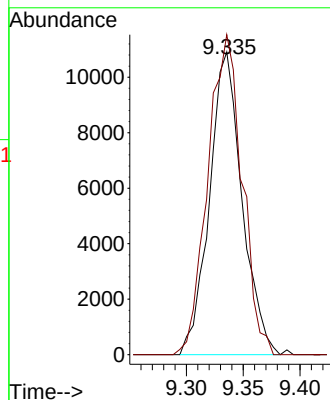
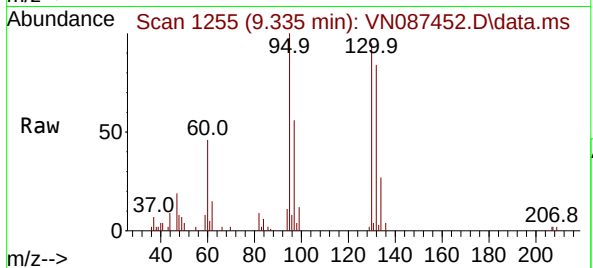
VSTDIC005

Tgt Ion:130 Resp: 21742

Ion Ratio Lower Upper

130 100

95 105.7 91.4 137.2



#38

Methylcyclohexane

Concen: 5.313 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

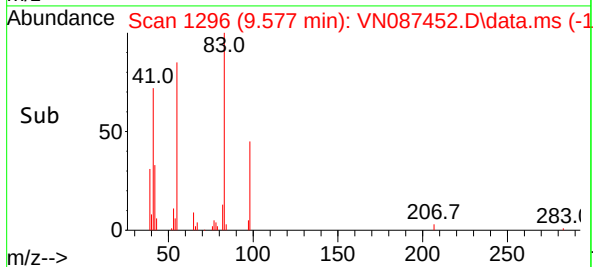
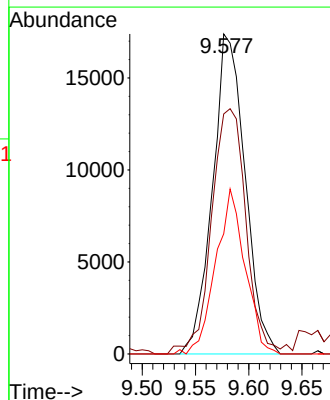
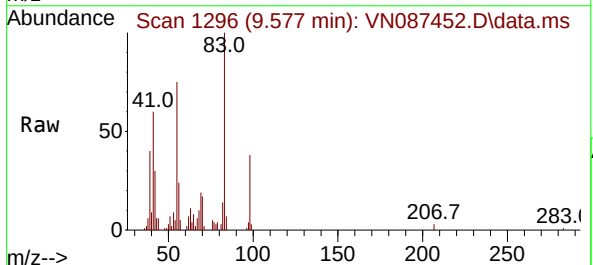
Tgt Ion: 83 Resp: 36974

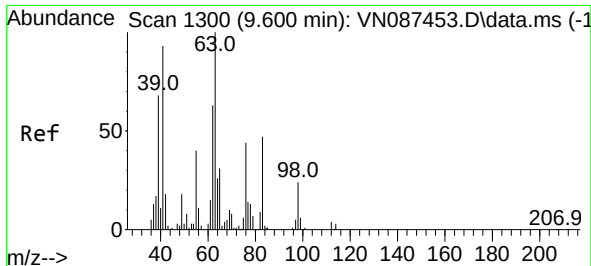
Ion Ratio Lower Upper

83 100

55 79.5 41.2 123.6

98 46.2 23.3 69.9

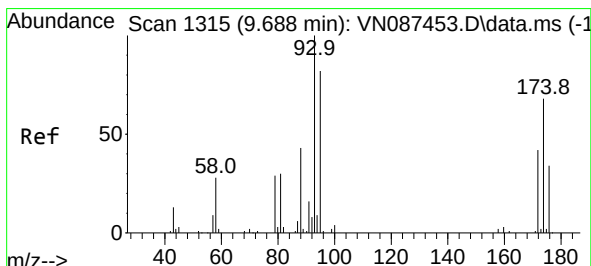
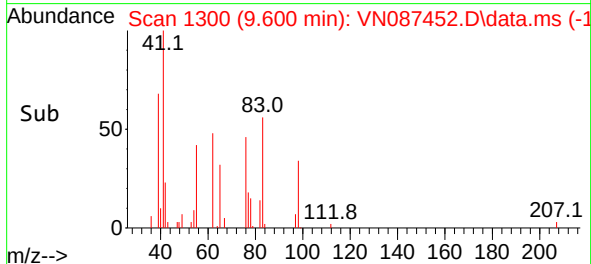
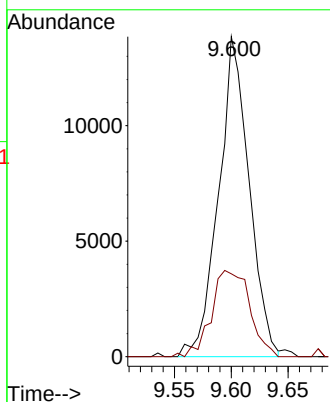
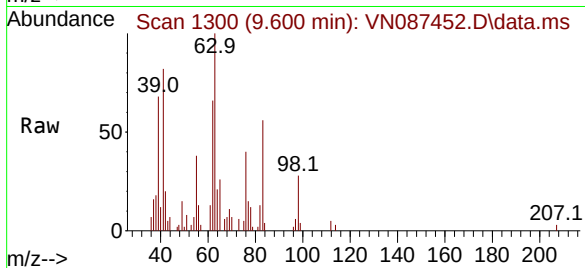




#39  
1,2-Dichloropropane  
Concen: 5.333 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

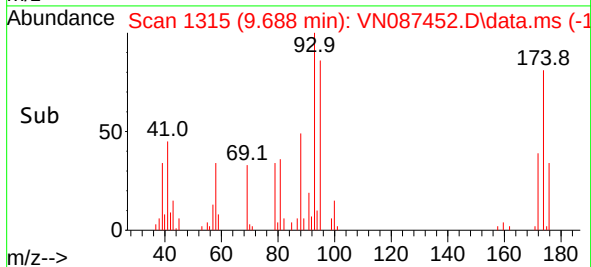
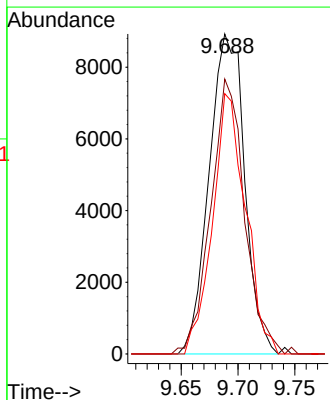
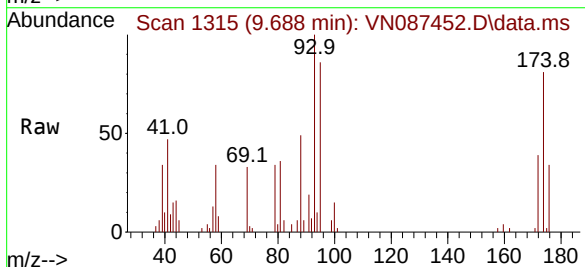
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 63 Resp: 25889  
Ion Ratio Lower Upper  
63 100  
65 25.9 24.6 36.8

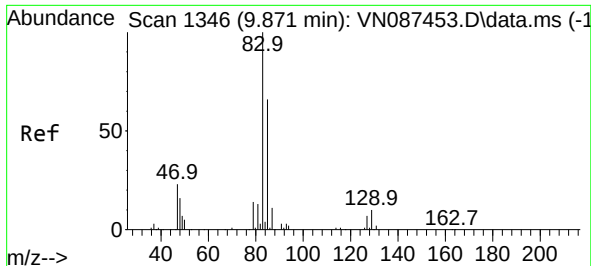


#40  
Dibromomethane  
Concen: 5.327 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 93 Resp: 19402  
Ion Ratio Lower Upper  
93 100  
95 81.7 0.0 161.6  
174 75.6 0.0 151.4



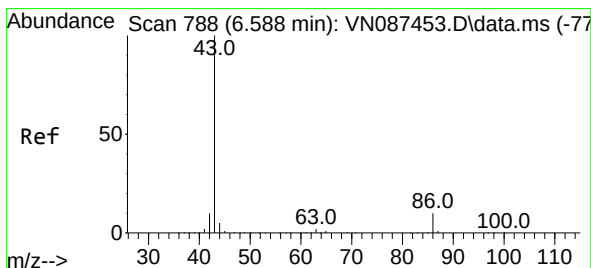
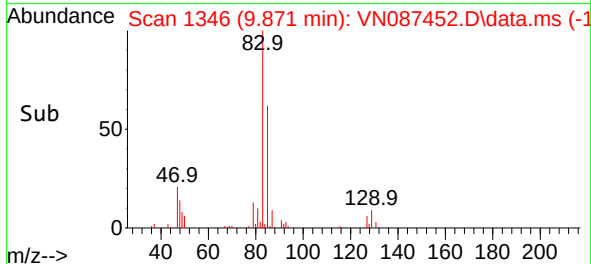
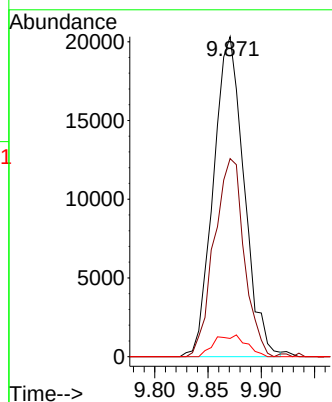
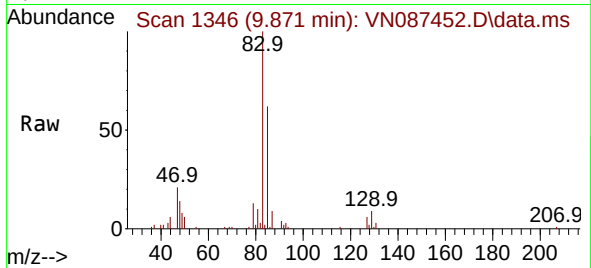




#41  
Bromodichloromethane  
Concen: 5.362 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

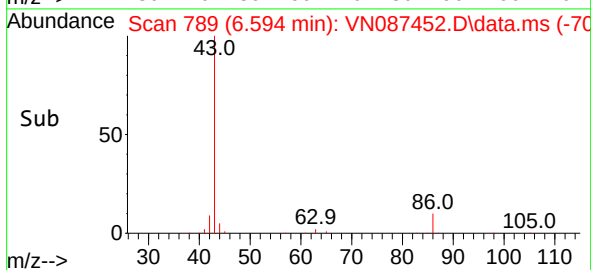
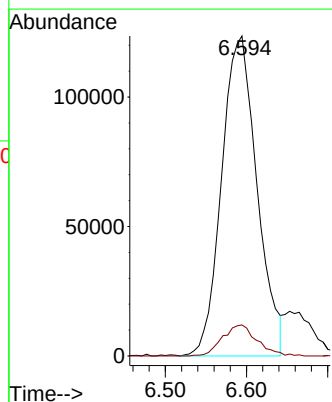
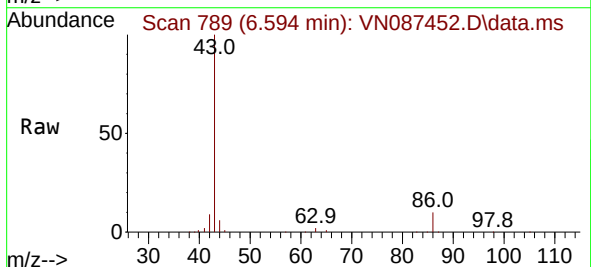
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MSVOA\_N  
ClientSampleId :  
VSTDIC005

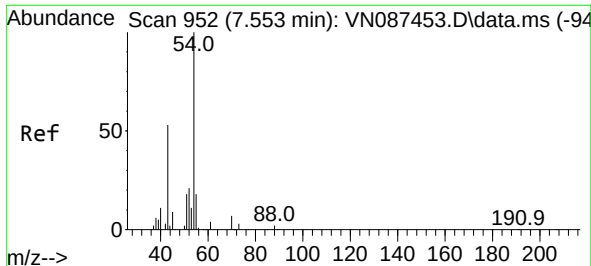
Tgt Ion: 83 Resp: 40582  
Ion Ratio Lower Upper  
83 100  
85 61.9 52.9 79.3  
127 5.7 5.8 8.6#



#42  
Vinyl Acetate  
Concen: 25.723 ug/l  
RT: 6.594 min Scan# 789  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 374548  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.3 10.9

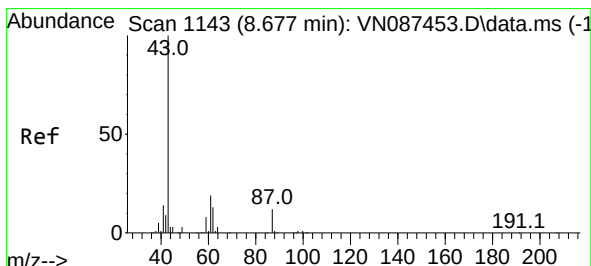
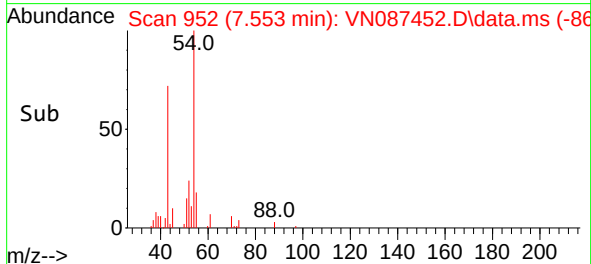
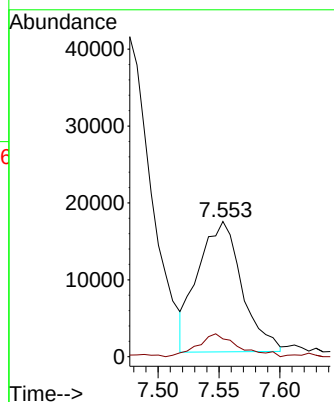
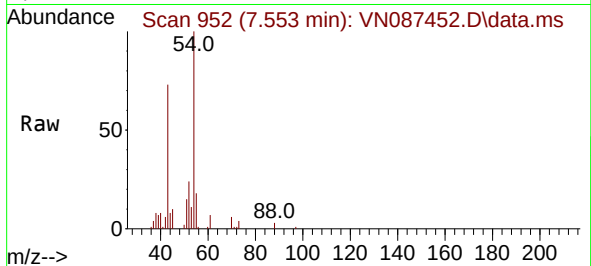




#43  
Ethyl Acetate  
Concen: 5.051 ug/l  
RT: 7.553 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

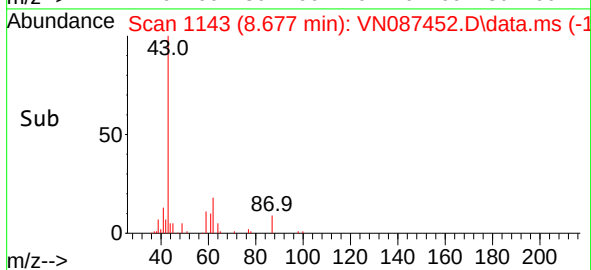
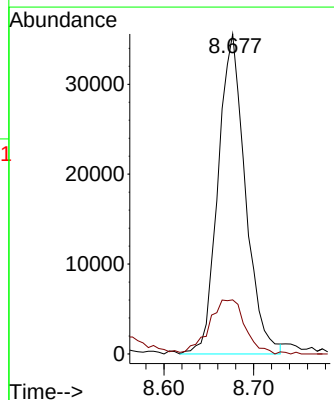
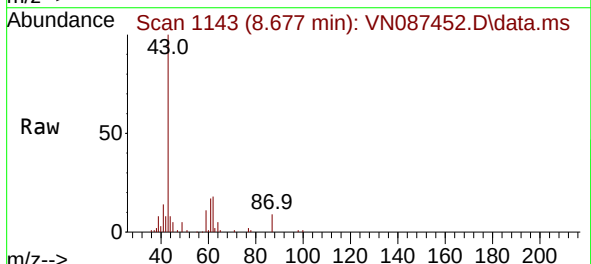
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

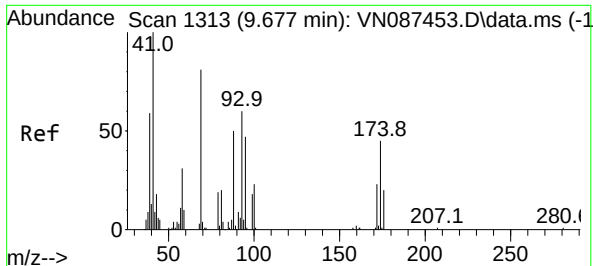
Tgt Ion: 43 Resp: 42509  
Ion Ratio Lower Upper  
43 100  
45 15.4 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 5.197 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 75250  
Ion Ratio Lower Upper  
43 100  
61 22.1 18.6 28.0

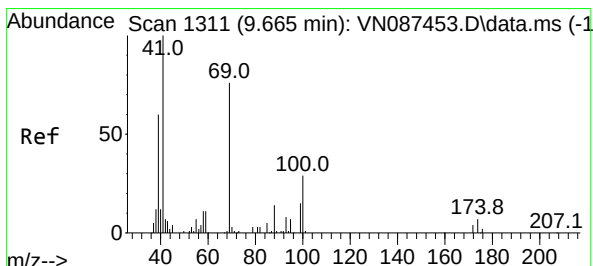
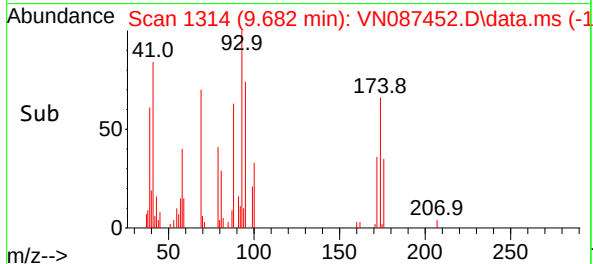
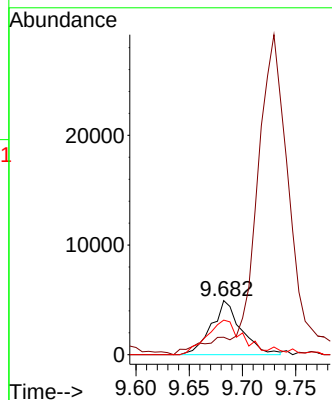
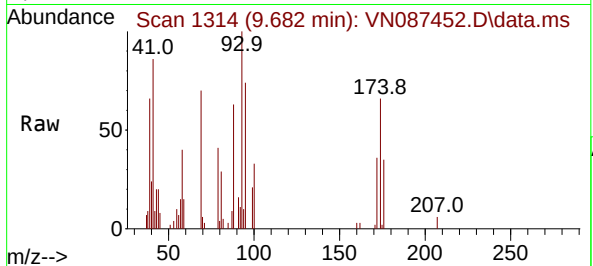




#45  
1,4-Dioxane  
Concen: 103.972 ug/l  
RT: 9.682 min Scan# 1314  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

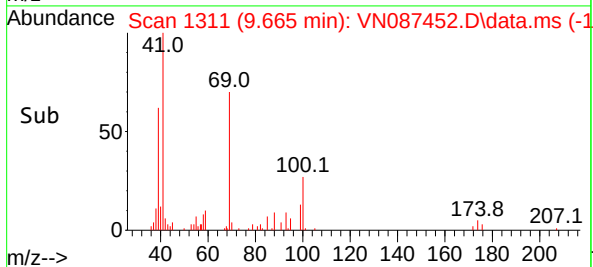
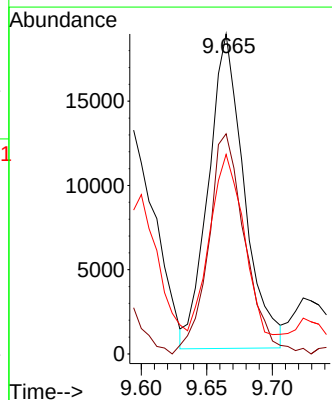
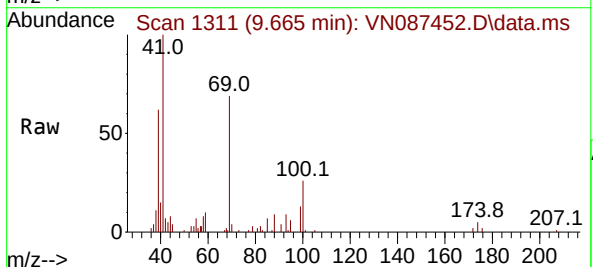
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

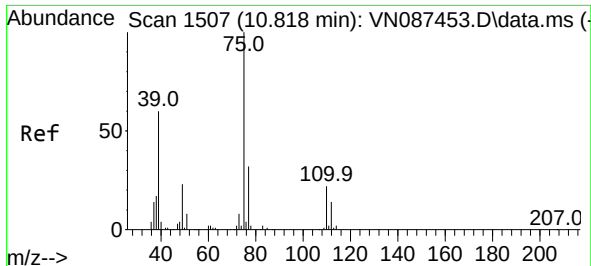
Tgt Ion: 88 Resp: 9597  
Ion Ratio Lower Upper  
88 100  
43 9.7 24.1 36.1#  
58 76.6 57.2 85.8



#46  
Methyl methacrylate  
Concen: 5.168 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 41 Resp: 35322  
Ion Ratio Lower Upper  
41 100  
69 71.7 37.1 111.5  
39 61.0 30.7 92.1

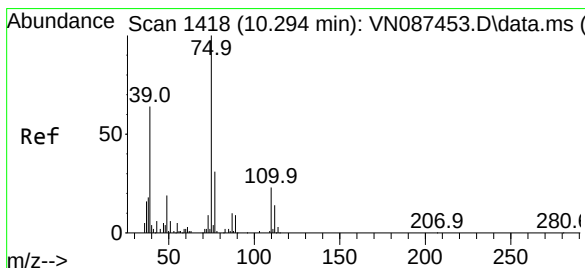
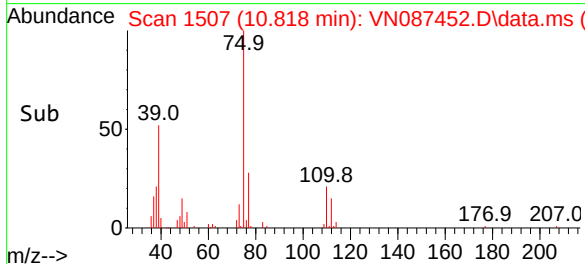
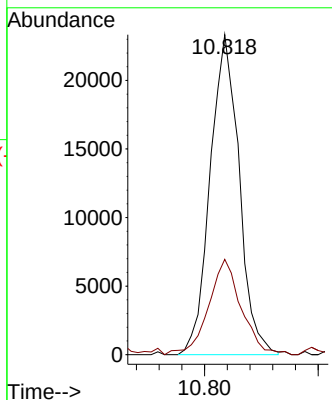
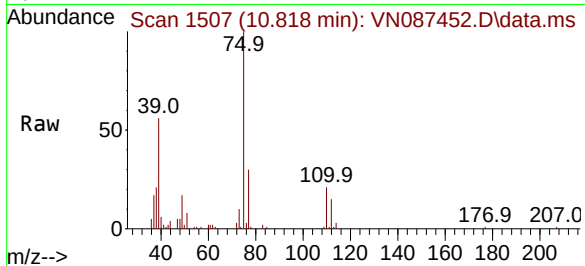




#48  
 t-1,3-Dichloropropene  
 Concen: 5.029 ug/l  
 RT: 10.818 min Scan# 1507  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

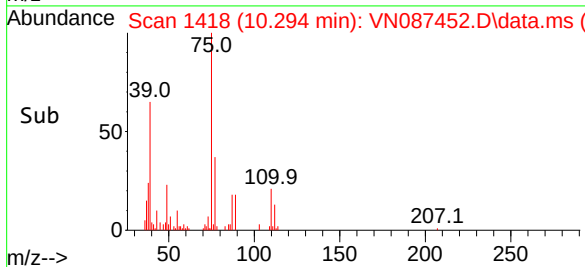
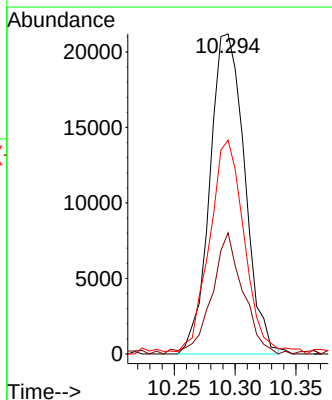
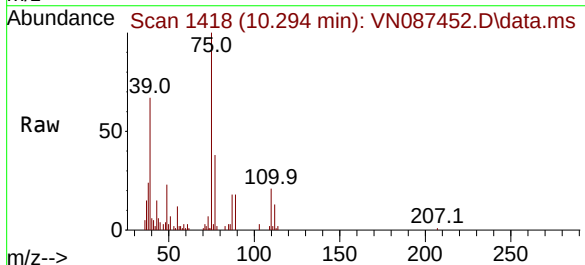
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

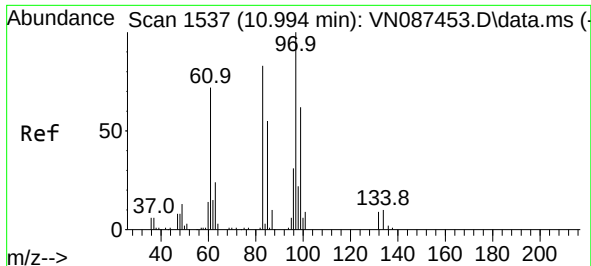
Tgt Ion: 75 Resp: 41412  
 Ion Ratio Lower Upper  
 75 100  
 77 29.0 25.3 37.9



#49  
 cis-1,3-Dichloropropene  
 Concen: 5.083 ug/l  
 RT: 10.294 min Scan# 1418  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

Tgt Ion: 75 Resp: 42124  
 Ion Ratio Lower Upper  
 75 100  
 77 37.8 24.6 36.8#  
 39 66.1 51.5 77.3

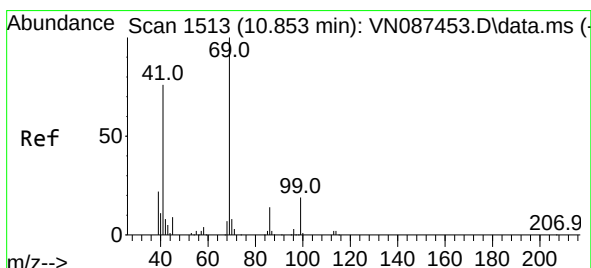
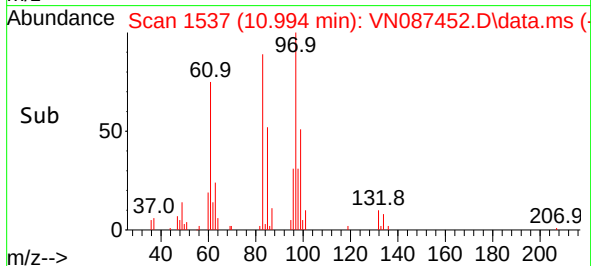
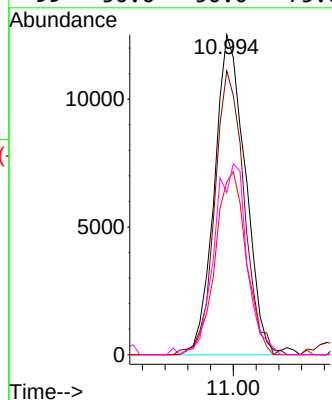
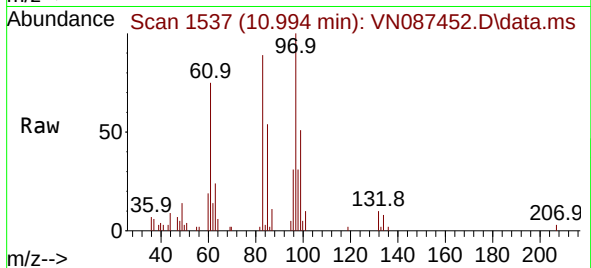




#50  
1,1,2-Trichloroethane  
Concen: 5.123 ug/l  
RT: 10.994 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

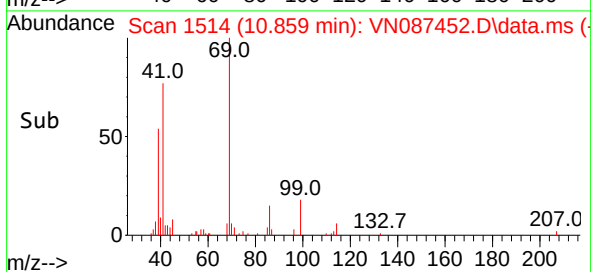
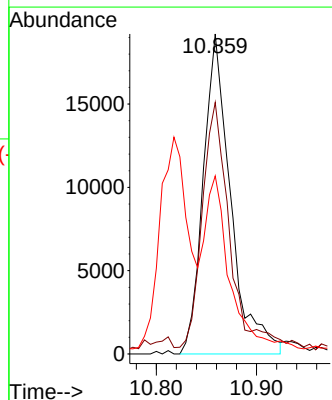
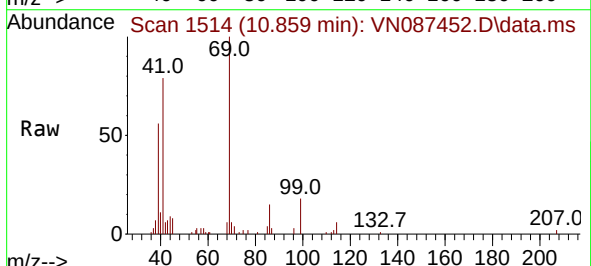
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MSVOA\_N  
ClientSampleId :  
VSTDIC005

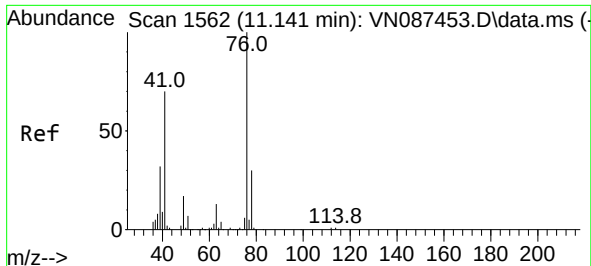
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 23578 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 87.3  | 66.2  | 99.2  |
| 85       | 53.9  | 43.9  | 65.9  |
| 99       | 50.6  | 50.0  | 75.0  |



#51  
Ethyl methacrylate  
Concen: 4.529 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 36705 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 76.5  | 38.0  | 114.1 |
| 39       | 51.6  | 23.2  | 69.5  |

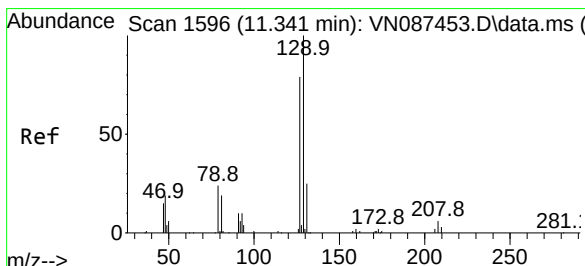
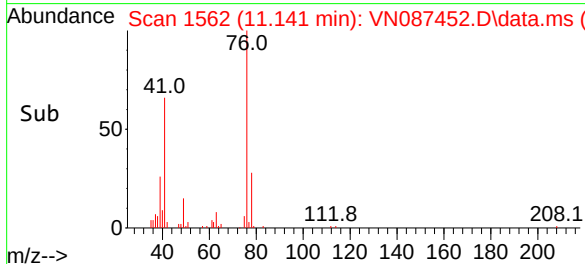
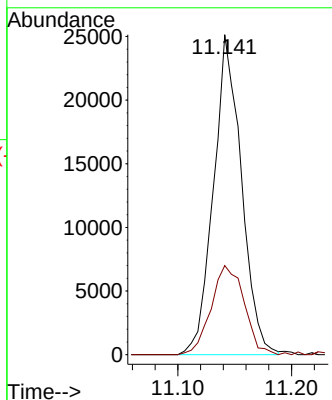
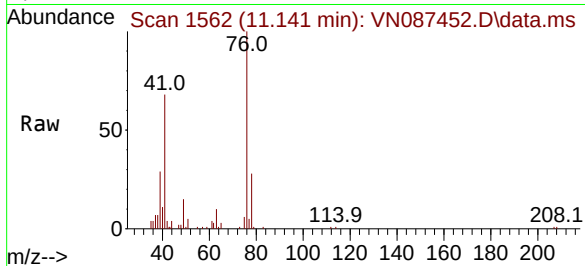




#52  
1,3-Dichloropropane  
Concen: 5.166 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

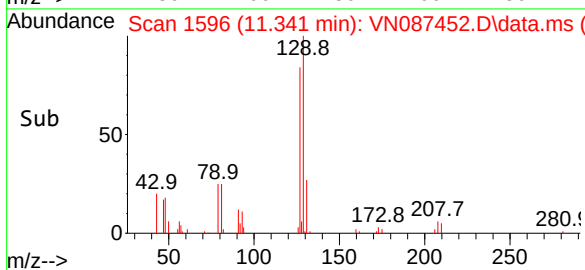
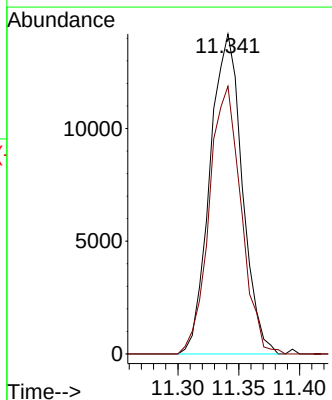
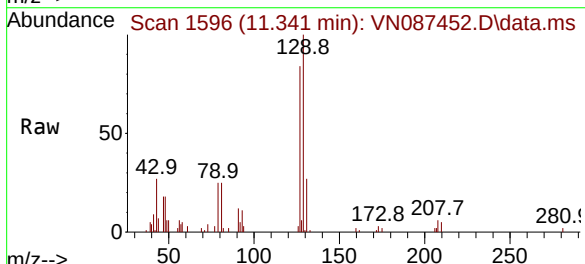
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

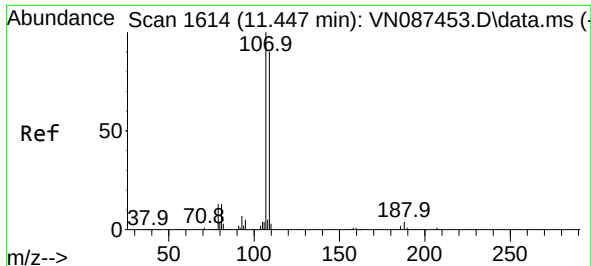
Tgt Ion: 76 Resp: 42828  
Ion Ratio Lower Upper  
76 100  
78 32.9 0.0 63.0



#53  
Dibromochloromethane  
Concen: 4.929 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 129 Resp: 26196  
Ion Ratio Lower Upper  
129 100  
127 82.3 39.1 117.3

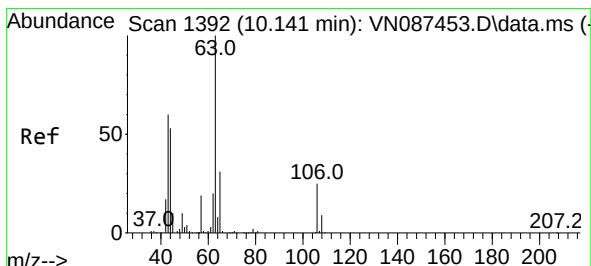
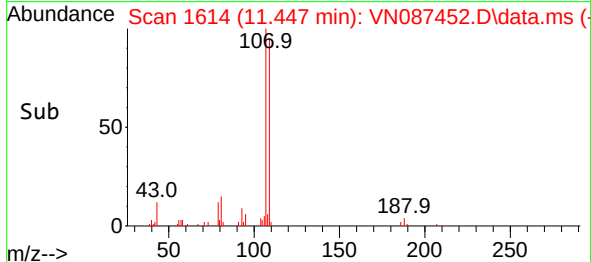
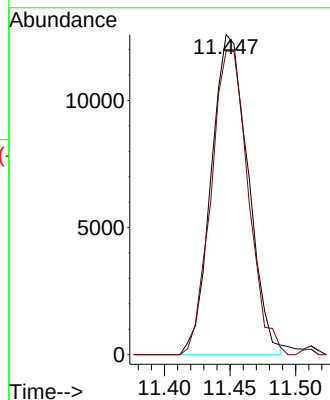
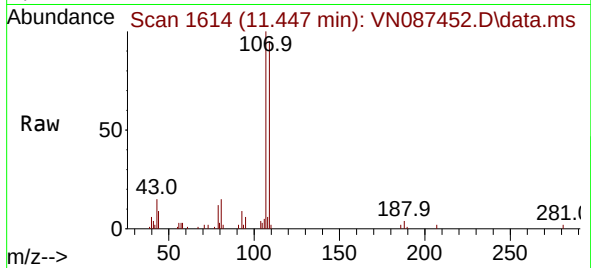




#54  
1,2-Dibromoethane  
Concen: 5.026 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

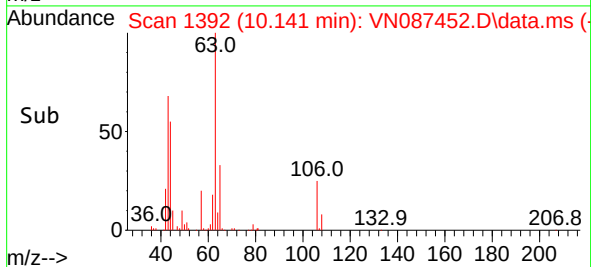
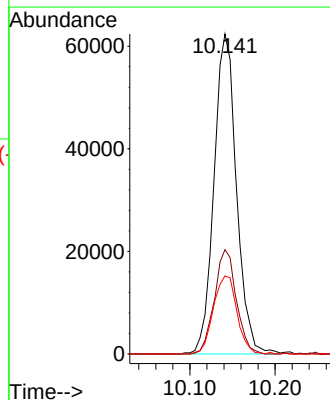
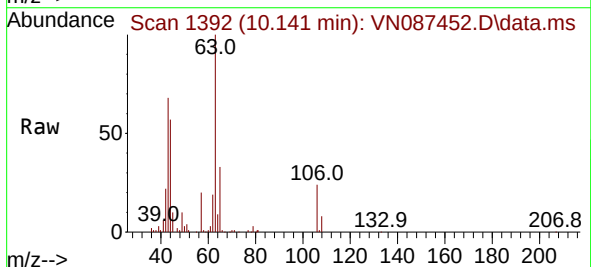
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

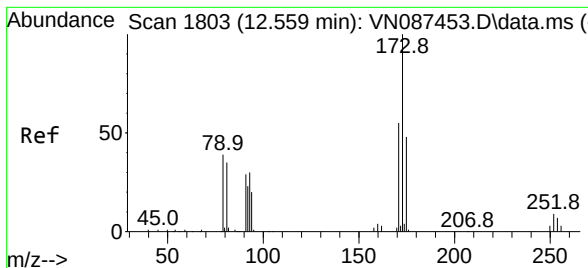
Tgt Ion:107 Resp: 24555  
Ion Ratio Lower Upper  
107 100  
109 95.6 74.2 111.4



#55  
2-Chloroethyl vinyl ether  
Concen: 26.788 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 63 Resp: 114298  
Ion Ratio Lower Upper  
63 100  
65 31.7 25.7 38.5  
106 25.5 20.7 31.1

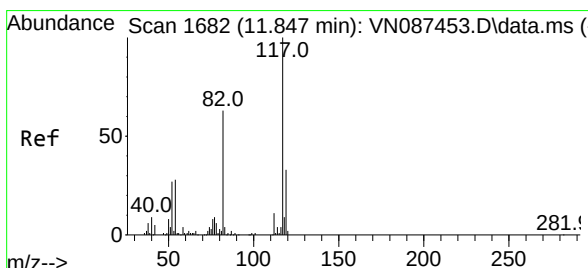
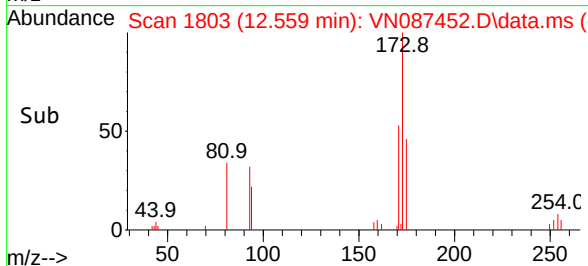
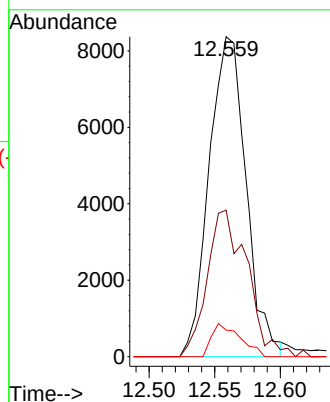
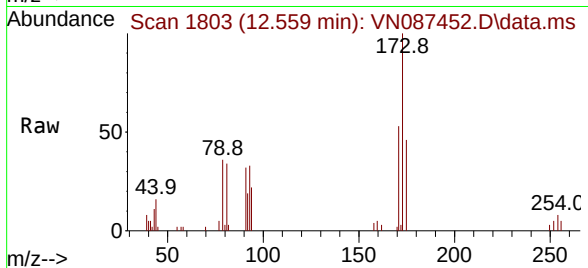




#56  
Bromoform  
Concen: 4.675 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

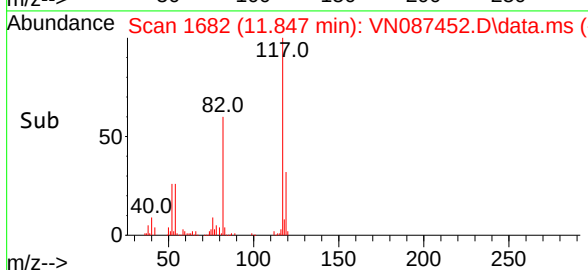
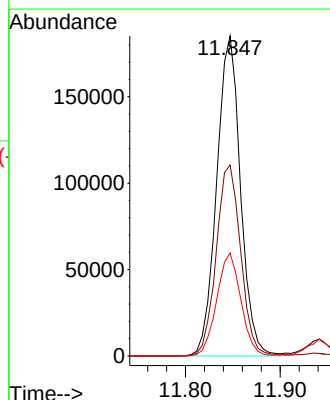
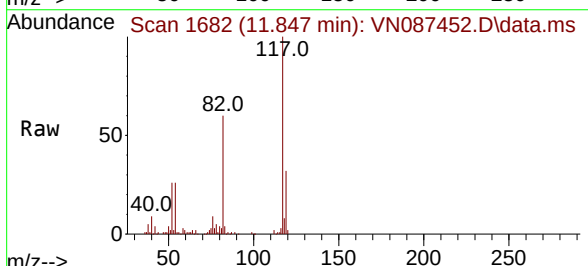
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:173 Resp: 16434  
Ion Ratio Lower Upper  
173 100  
175 32.9 38.8 58.2#  
254 8.0 3.9 5.9#

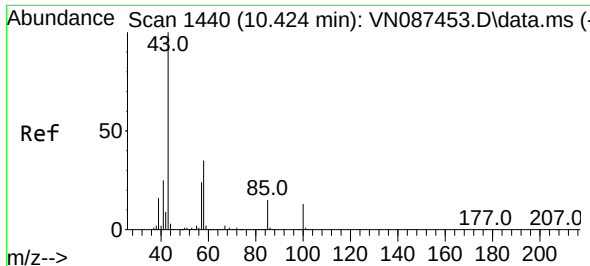


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:117 Resp: 324158  
Ion Ratio Lower Upper  
117 100  
82 61.1 49.2 73.8  
119 32.5 25.7 38.5



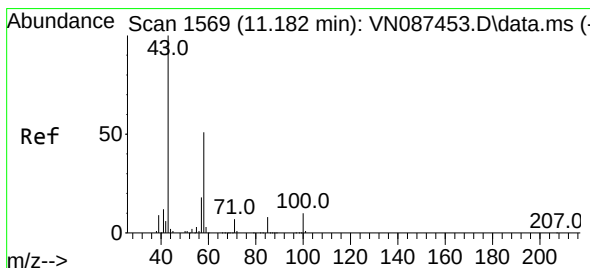
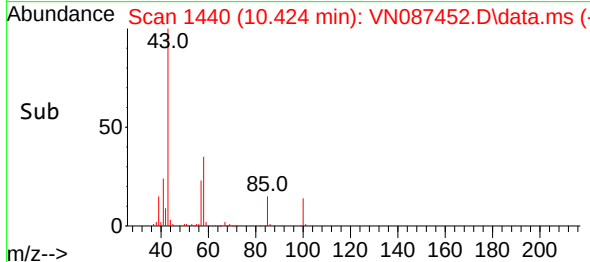
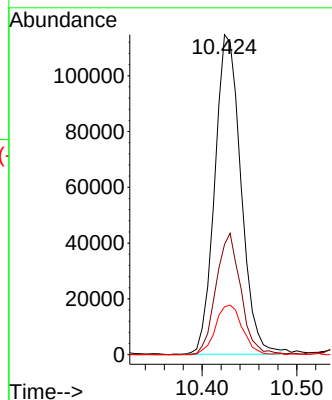
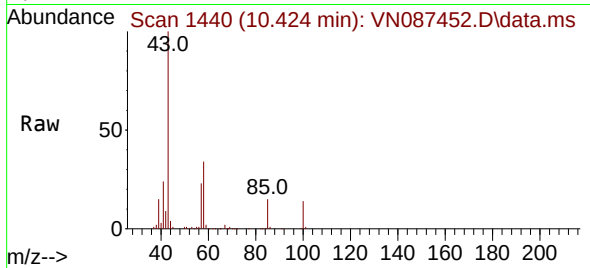




#58  
4-Methyl-2-Pentanone  
Concen: 26.335 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

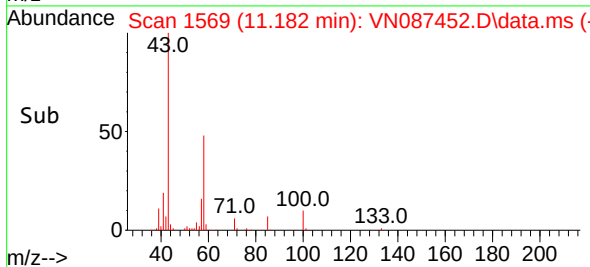
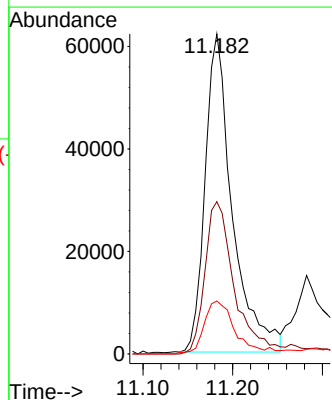
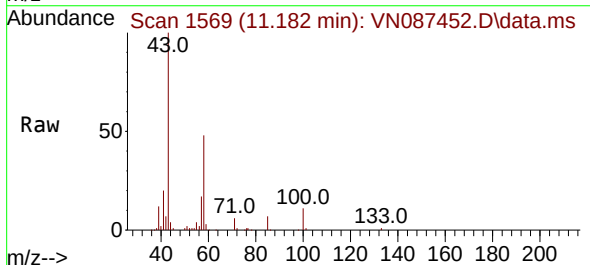
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

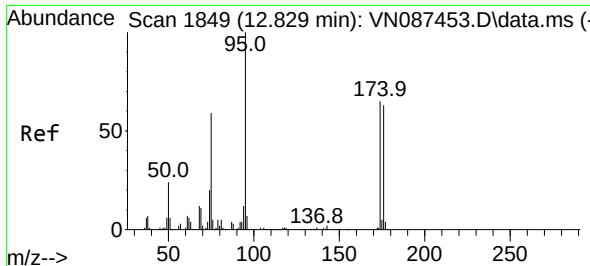
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 219603 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 35.6  | 29.0  | 43.6   |
| 85       | 16.0  | 12.7  | 19.1   |



#59  
2-Hexanone  
Concen: 23.053 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 130616 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 51.8  | 41.0  | 61.6   |
| 57       | 18.3  | 14.6  | 21.8   |

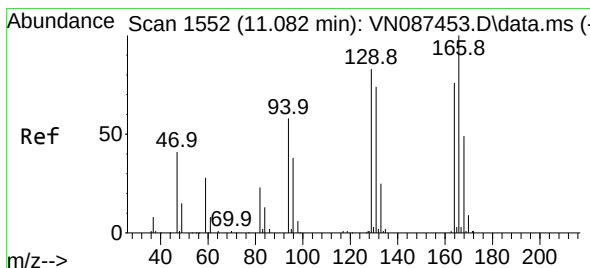
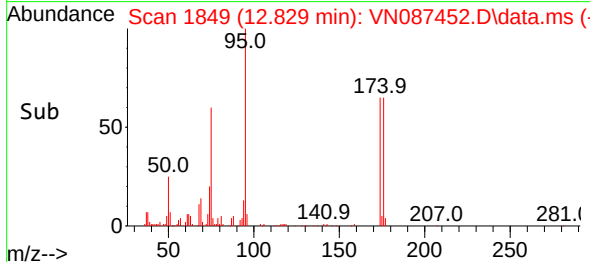
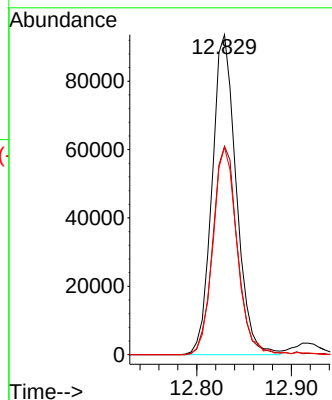
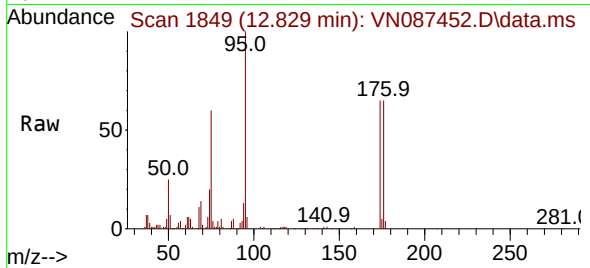




#60  
4-Bromofluorobenzene  
Concen: 29.766 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

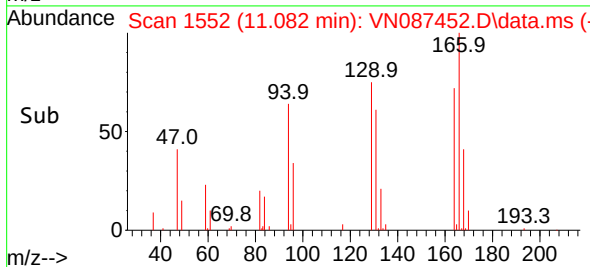
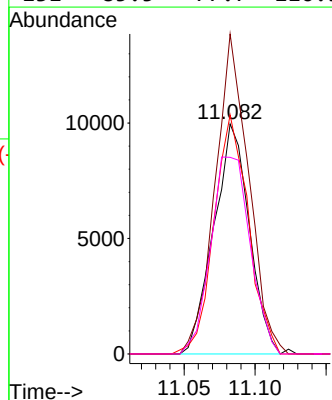
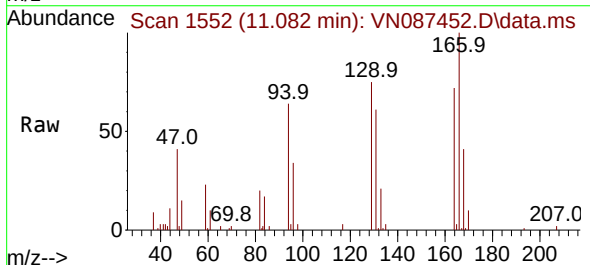
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

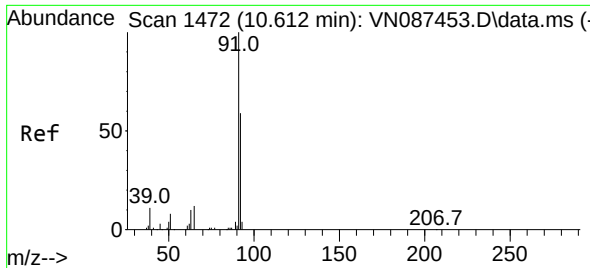
Tgt Ion: 95 Resp: 166050  
Ion Ratio Lower Upper  
95 100  
174 66.1 52.3 78.5  
176 64.5 49.8 74.8



#61  
Tetrachloroethene  
Concen: 5.471 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:164 Resp: 17278  
Ion Ratio Lower Upper  
164 100  
166 139.1 105.4 158.0  
129 103.9 87.7 131.5  
131 85.5 77.7 116.5

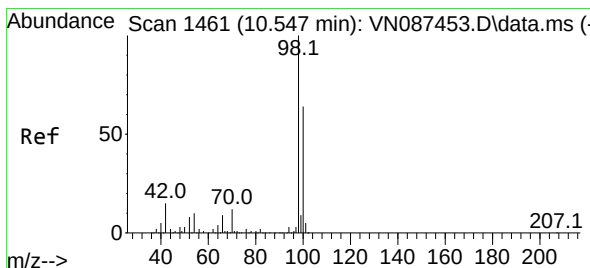
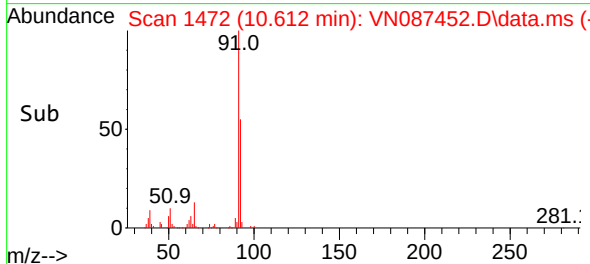
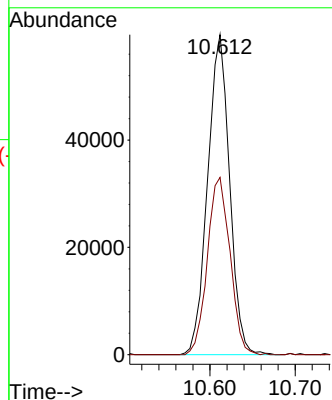
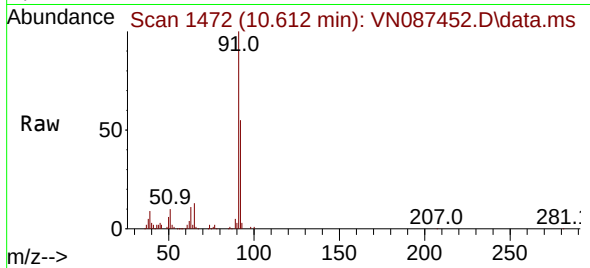




#62  
Toluene  
Concen: 5.333 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

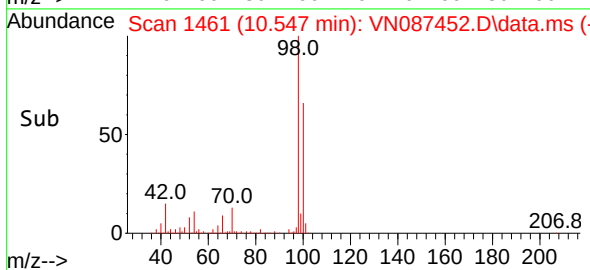
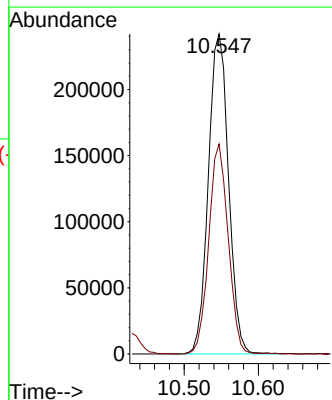
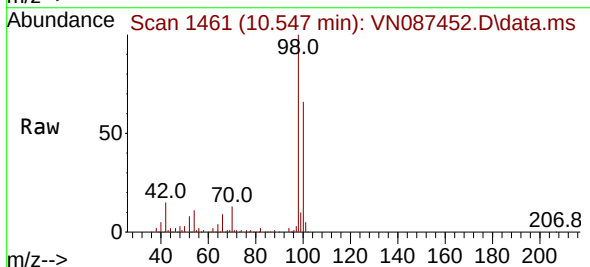
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

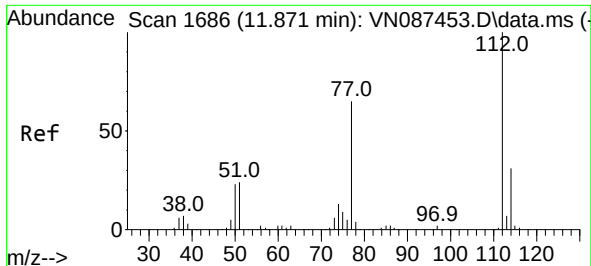
Tgt Ion: 91 Resp: 106690  
Ion Ratio Lower Upper  
91 100  
92 57.2 45.8 68.6



#63  
Toluene-d8  
Concen: 30.702 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 98 Resp: 457922  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.5 75.7

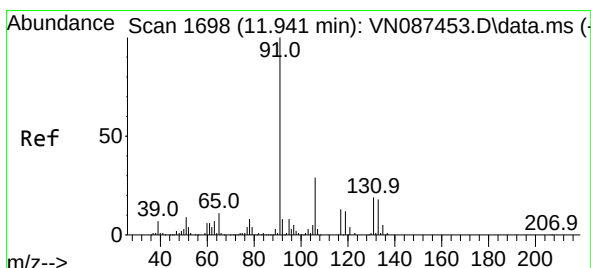
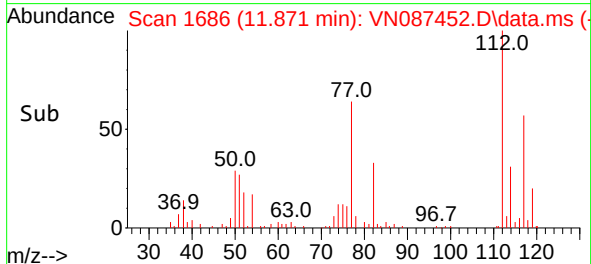
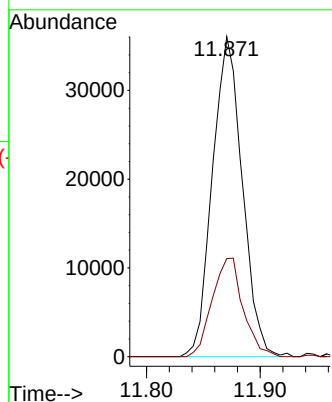
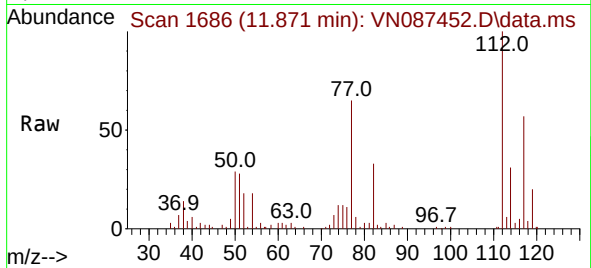




#64  
Chlorobenzene  
Concen: 5.354 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

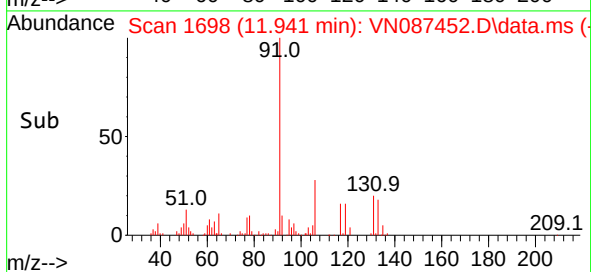
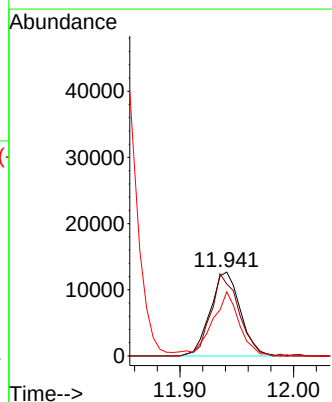
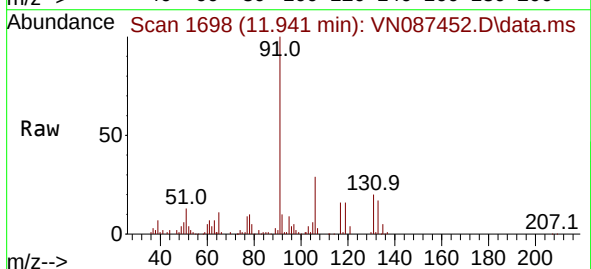
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

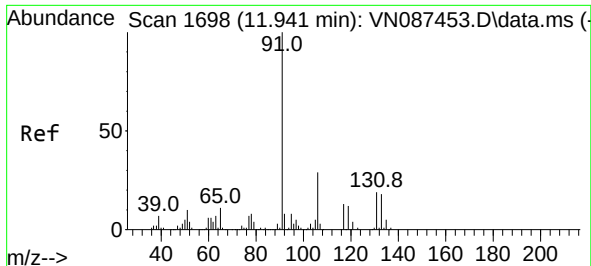
Tgt Ion:112 Resp: 65821  
Ion Ratio Lower Upper  
112 100  
114 30.7 24.7 37.1



#65  
1,1,1,2-Tetrachloroethane  
Concen: 5.381 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:131 Resp: 23260  
Ion Ratio Lower Upper  
131 100  
133 91.5 0.0 189.8  
119 66.7 0.0 133.2

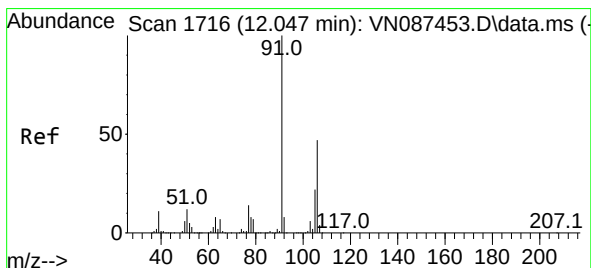
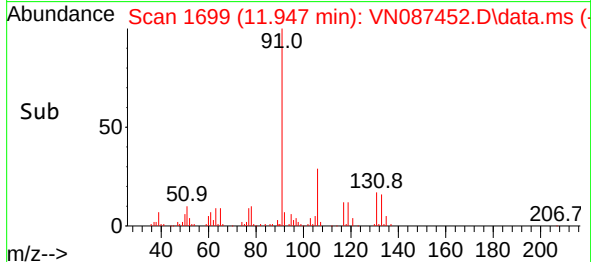
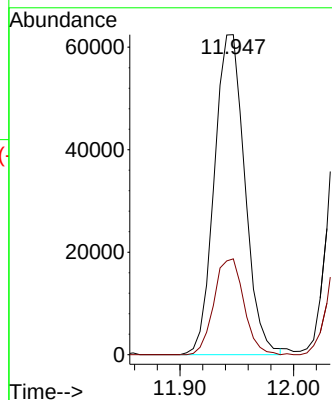
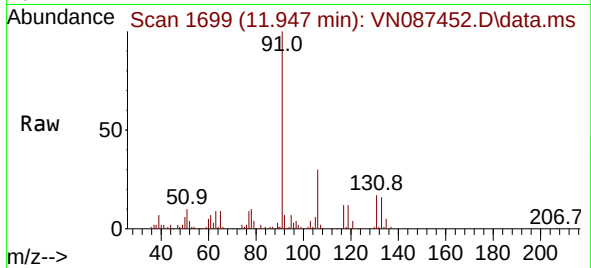




#66  
Ethyl Benzene  
Concen: 5.219 ug/l  
RT: 11.947 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

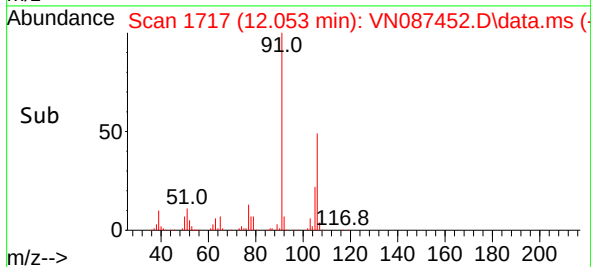
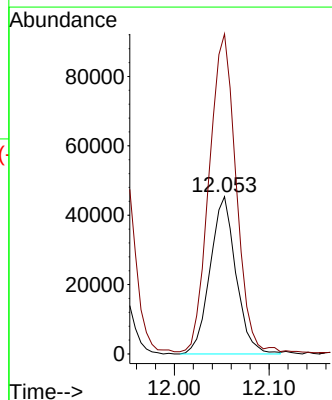
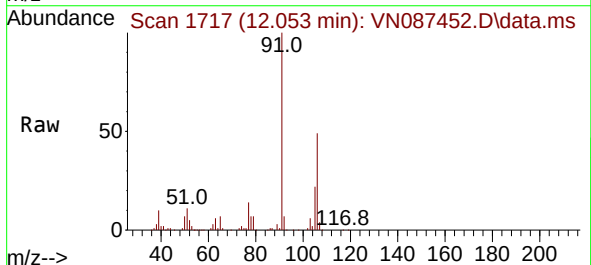
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

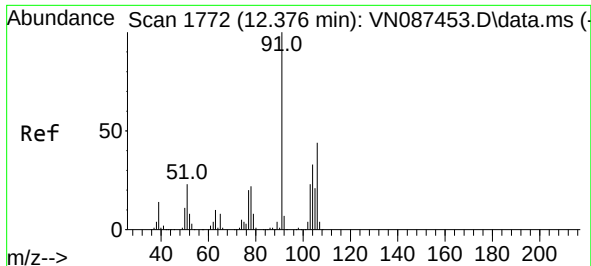
Tgt Ion: 91 Resp: 116379  
Ion Ratio Lower Upper  
91 100  
106 29.9 22.9 34.3



#67  
m/p-Xylenes  
Concen: 10.503 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 106 Resp: 85967  
Ion Ratio Lower Upper  
106 100  
91 211.9 174.2 261.2

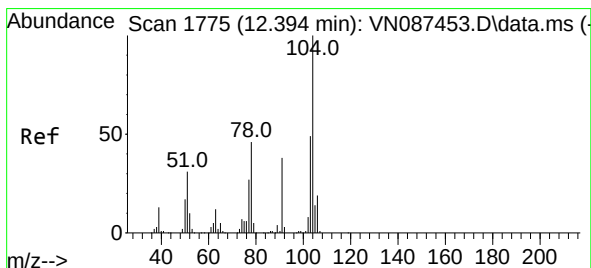
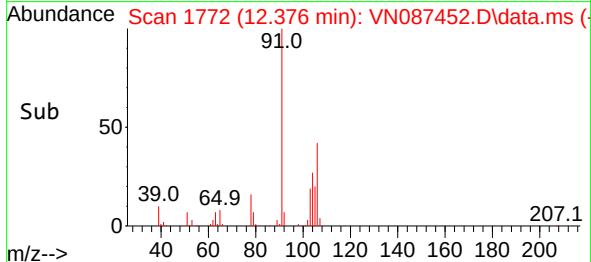
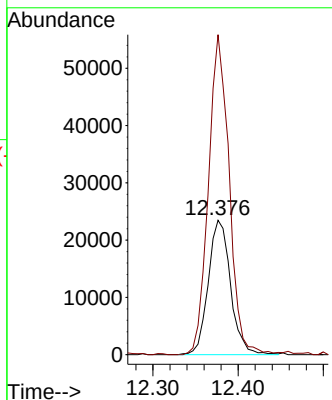
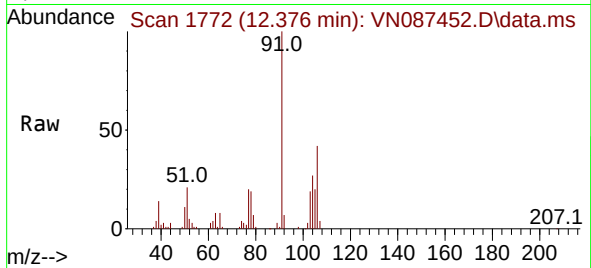




#68  
o-Xylene  
Concen: 5.306 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

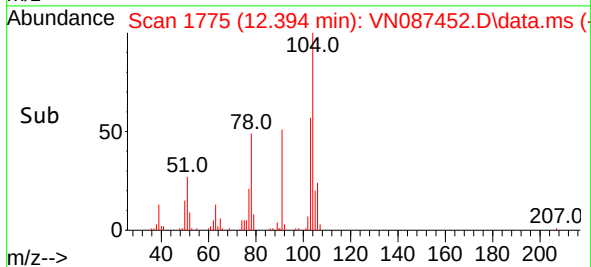
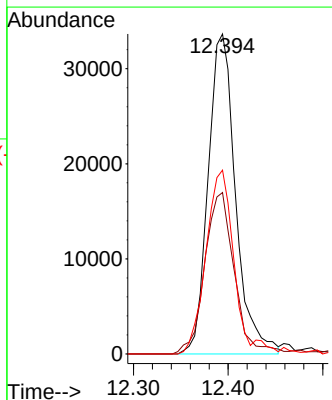
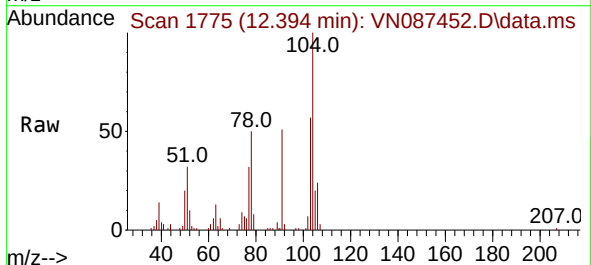
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

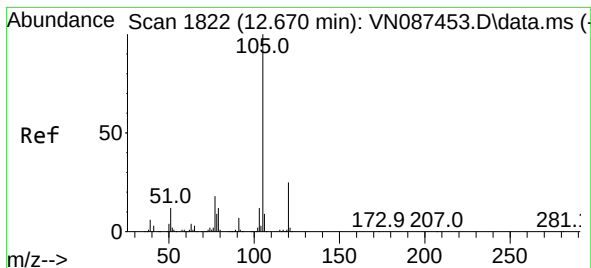
Tgt Ion:106 Resp: 42724  
Ion Ratio Lower Upper  
106 100  
91 221.3 114.5 343.5



#69  
Styrene  
Concen: 4.938 ug/l  
RT: 12.394 min Scan# 1775  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:104 Resp: 67893  
Ion Ratio Lower Upper  
104 100  
78 52.9 43.8 65.8  
103 56.2 43.1 64.7





#70

Isopropylbenzene

Concen: 5.119 ug/l

RT: 12.676 min Scan# 1822

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

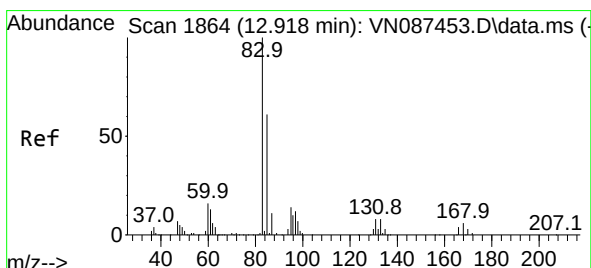
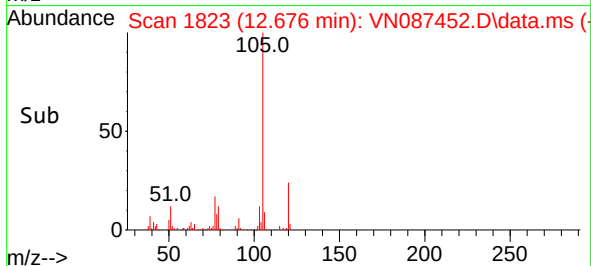
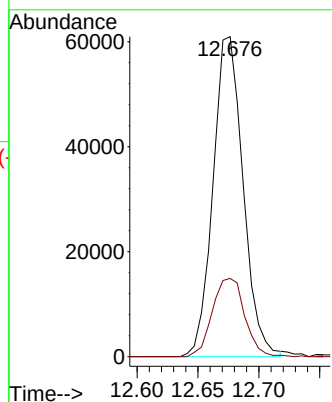
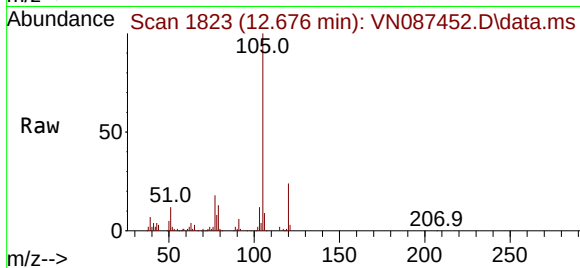
VSTDIC005

Tgt Ion:105 Resp: 104723

Ion Ratio Lower Upper

105 100

120 26.2 17.5 32.5



#71

1,1,2,2-Tetrachloroethane

Concen: 5.336 ug/l

RT: 12.918 min Scan# 1864

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

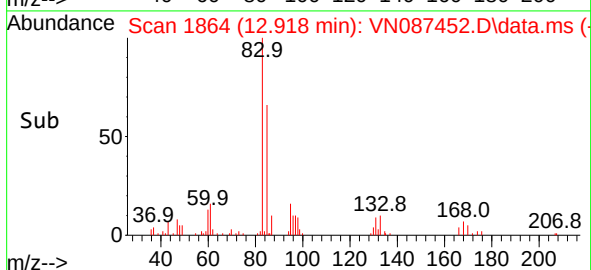
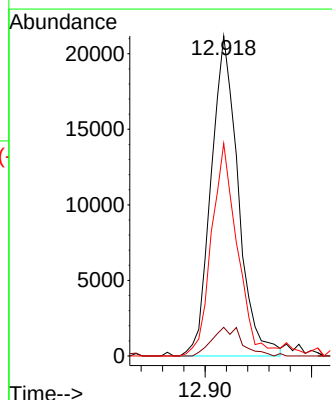
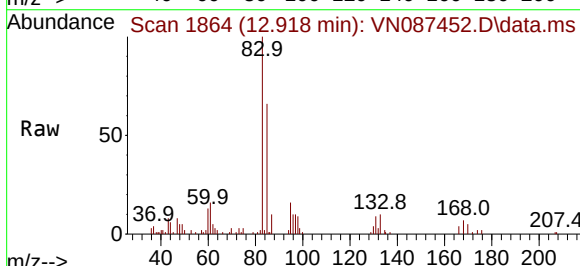
Tgt Ion: 83 Resp: 37401

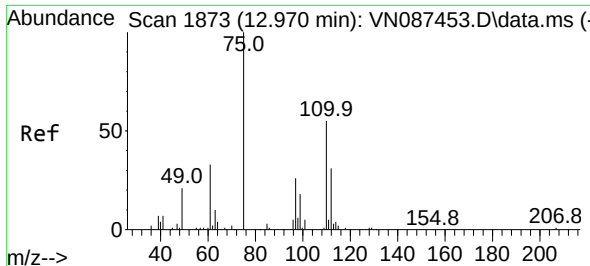
Ion Ratio Lower Upper

83 100

131 6.3 4.8 14.3

85 61.5 31.7 95.1

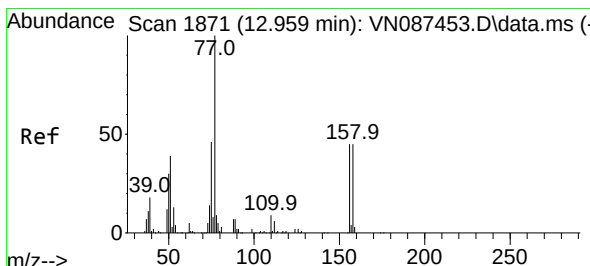
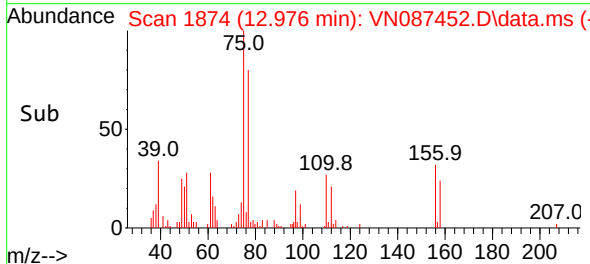
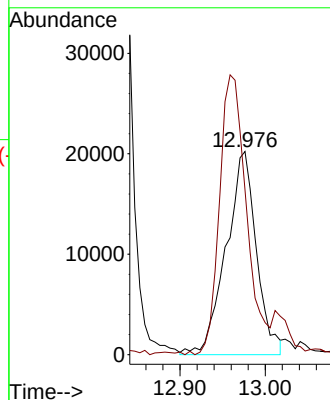
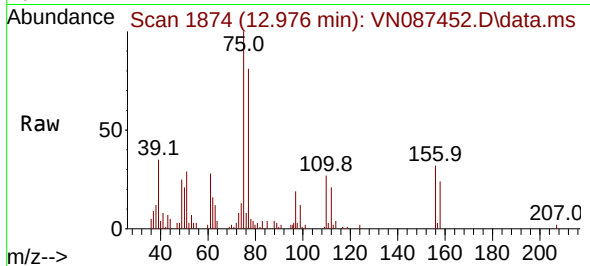




#72  
1,2,3-Trichloropropane  
Concen: 6.924 ug/l  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

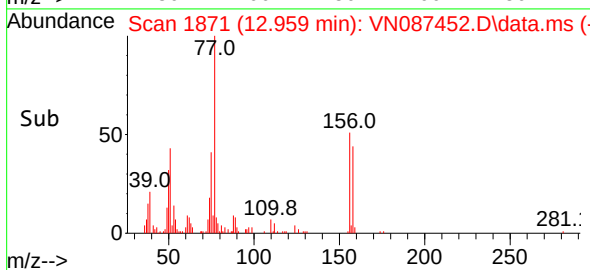
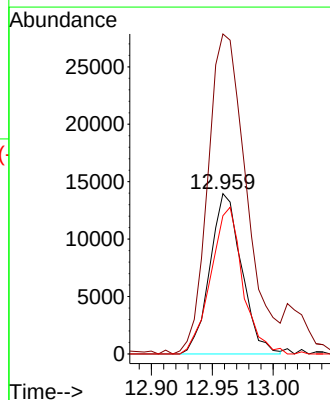
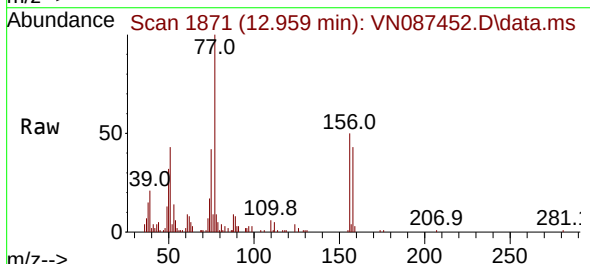
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 75 Resp: 49891  
Ion Ratio Lower Upper  
75 100  
77 122.9 0.0 385.0

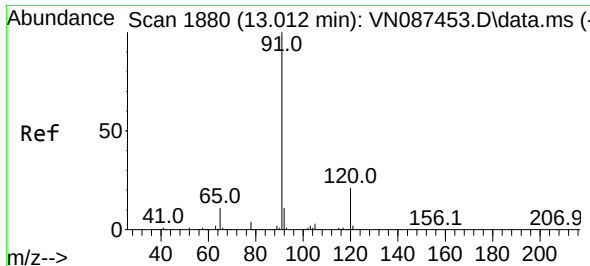


#73  
Bromobenzene  
Concen: 5.331 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 156 Resp: 25284  
Ion Ratio Lower Upper  
156 100  
77 242.5 0.0 506.6  
158 92.3 0.0 193.6



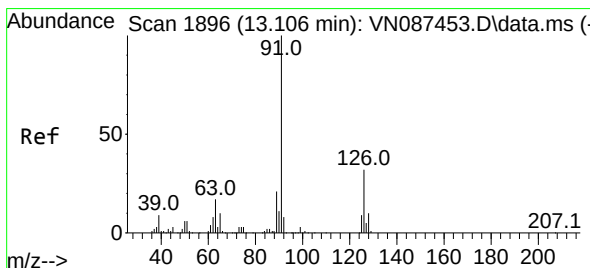
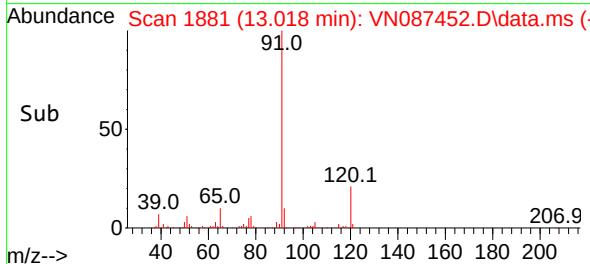
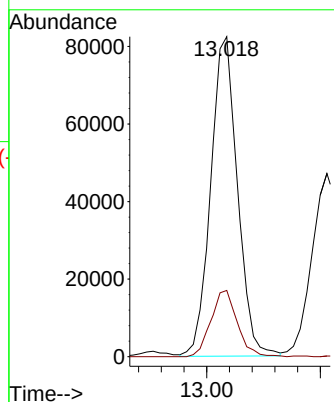
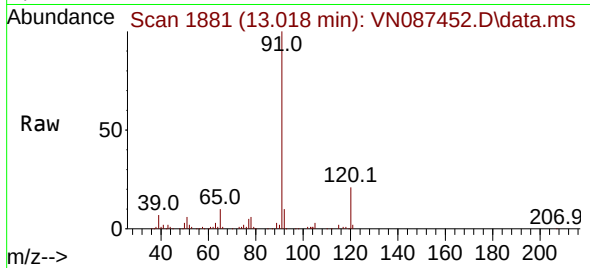




#74  
n-propylbenzene  
Concen: 5.275 ug/l  
RT: 13.018 min Scan# 1881  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

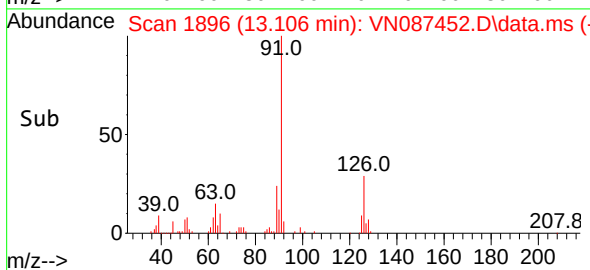
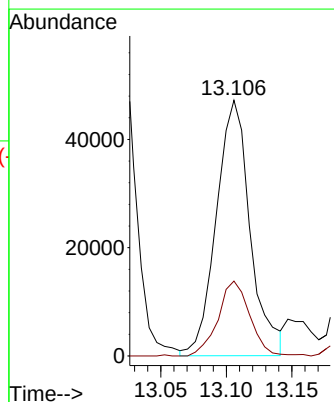
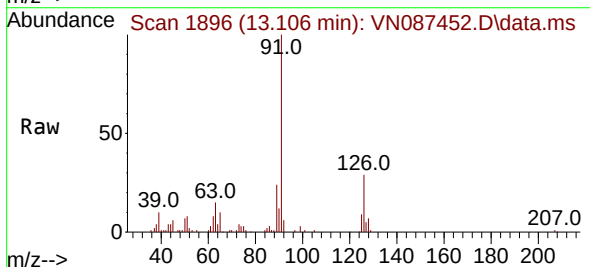
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

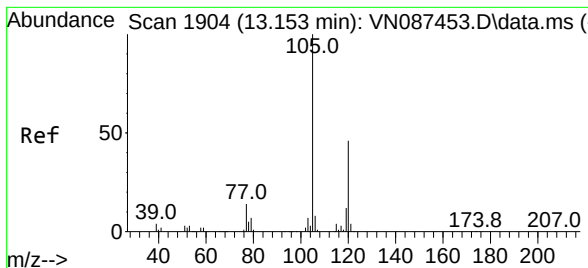
Tgt Ion: 91 Resp: 134786  
Ion Ratio Lower Upper  
91 100  
120 20.4 0.0 41.8



#75  
2-Chlorotoluene  
Concen: 5.397 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 91 Resp: 84827  
Ion Ratio Lower Upper  
91 100  
126 27.5 0.0 60.4

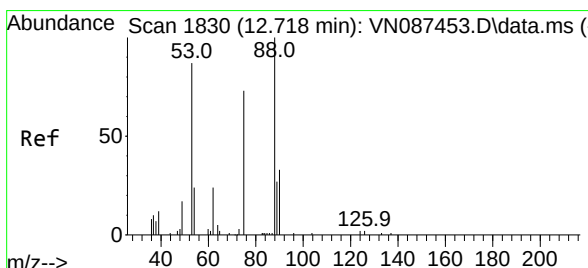
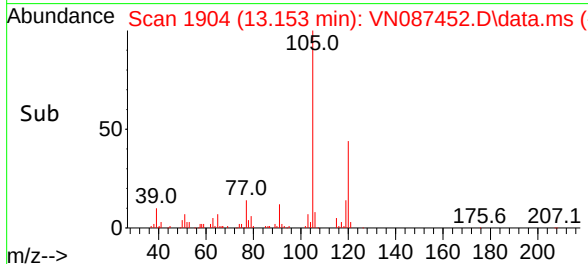
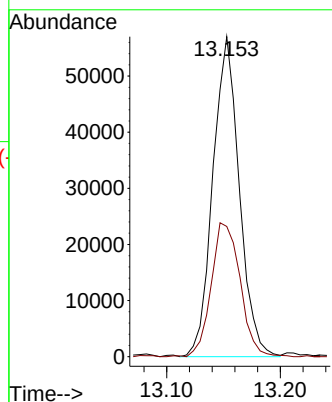
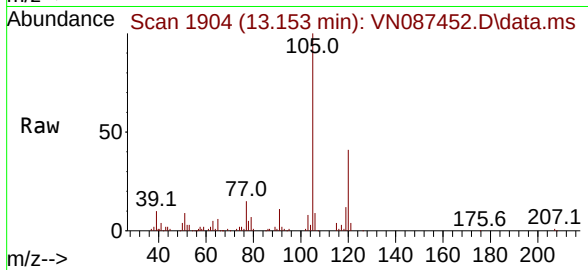




#76  
1,3,5-Trimethylbenzene  
Concen: 5.259 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

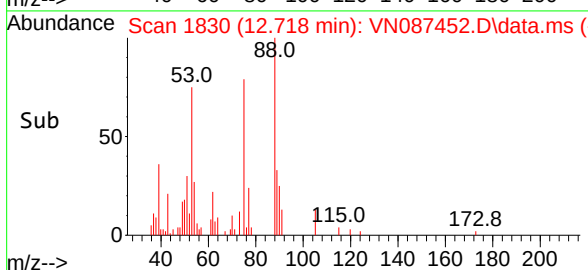
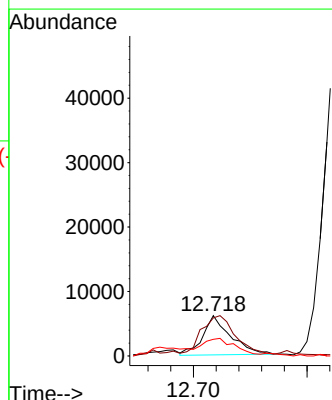
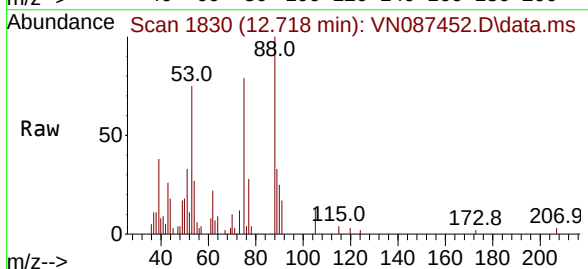
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

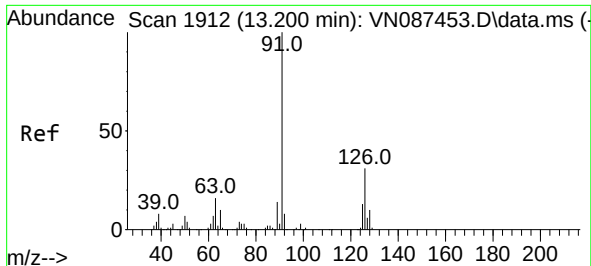
Tgt Ion:105 Resp: 92128  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 4.189 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 75 Resp: 10355  
Ion Ratio Lower Upper  
75 100  
53 92.1 59.0 176.8  
89 35.9 22.1 66.5

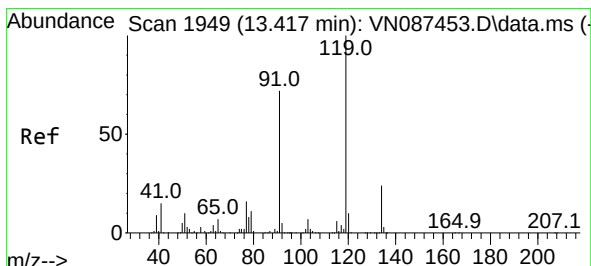
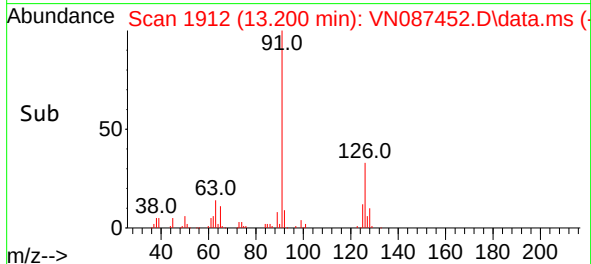
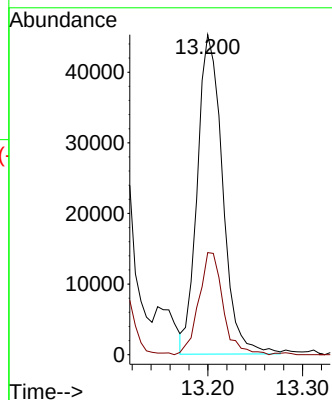
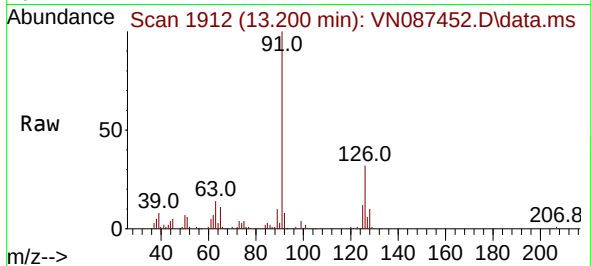




#78  
4-Chlorotoluene  
Concen: 5.255 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

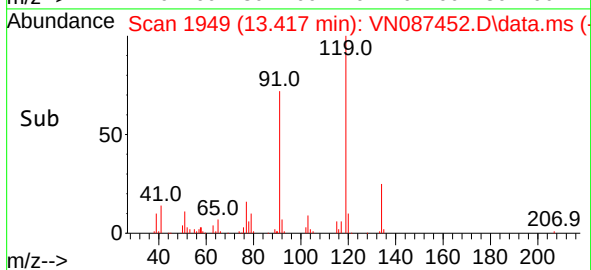
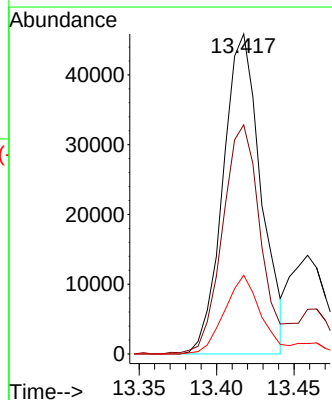
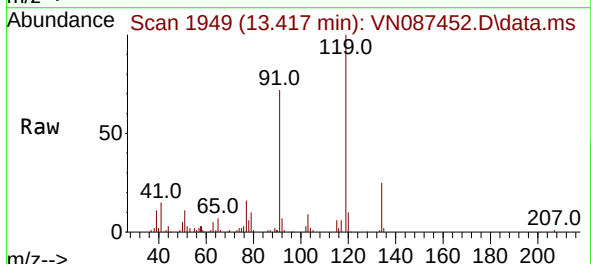
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

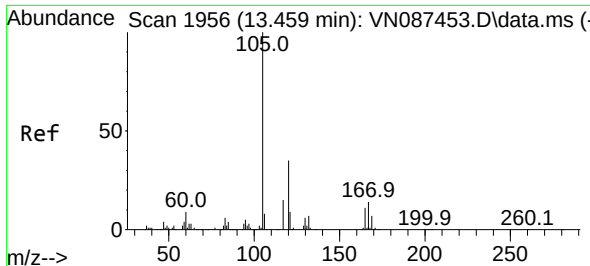
Tgt Ion: 91 Resp: 83697  
Ion Ratio Lower Upper  
91 100  
126 30.4 0.0 63.2



#79  
tert-butylbenzene  
Concen: 5.277 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 119 Resp: 77933  
Ion Ratio Lower Upper  
119 100  
91 71.2 0.0 141.6  
134 23.7 0.0 45.6

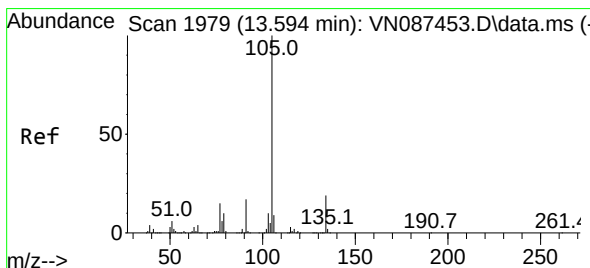
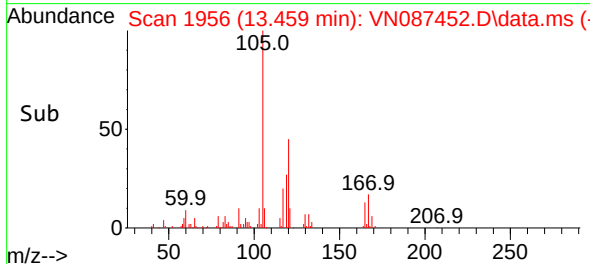
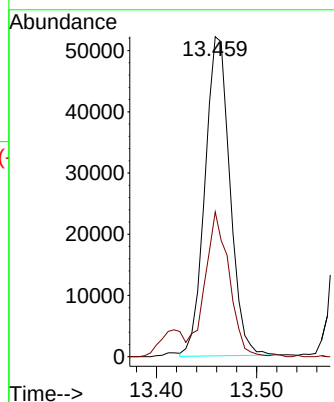
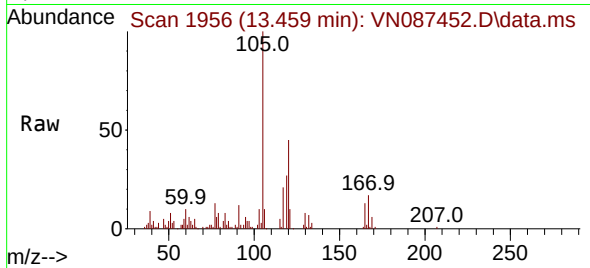




#80  
1,2,4-Trimethylbenzene  
Concen: 5.159 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

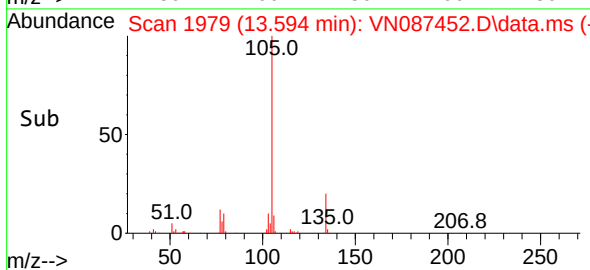
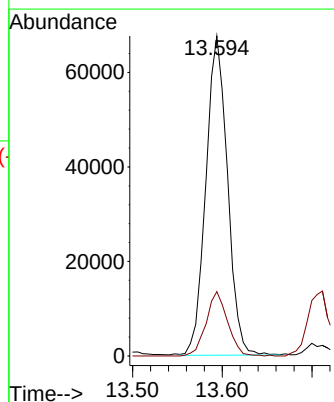
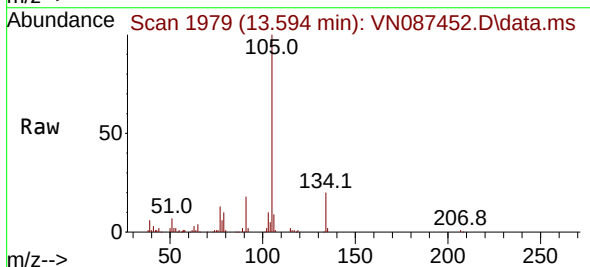
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

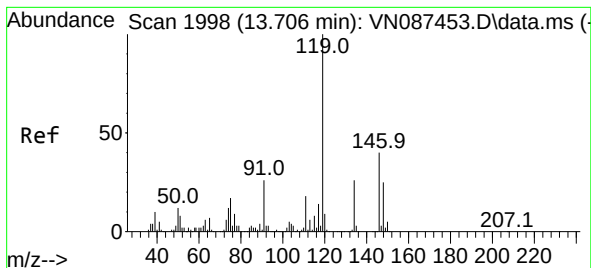
Tgt Ion:105 Resp: 90309  
Ion Ratio Lower Upper  
105 100  
120 43.9 0.0 87.2



#81  
sec-Butylbenzene  
Concen: 5.259 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion:105 Resp: 113073  
Ion Ratio Lower Upper  
105 100  
134 19.9 0.0 37.6





#82

p-Isopropyltoluene

Concen: 5.329 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

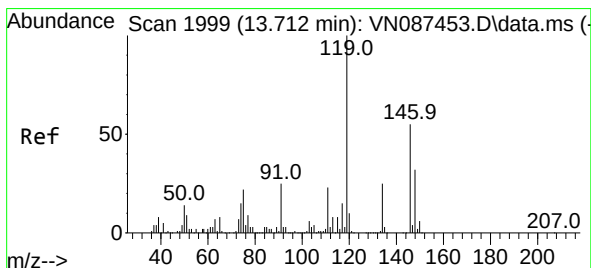
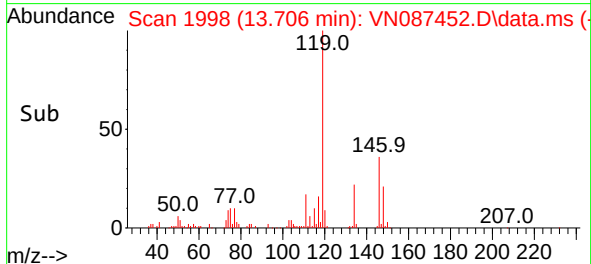
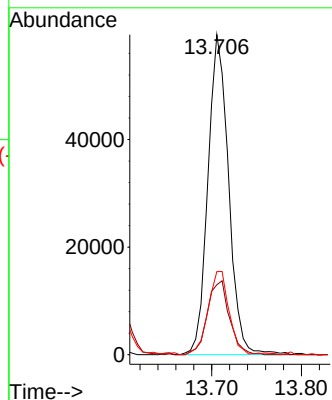
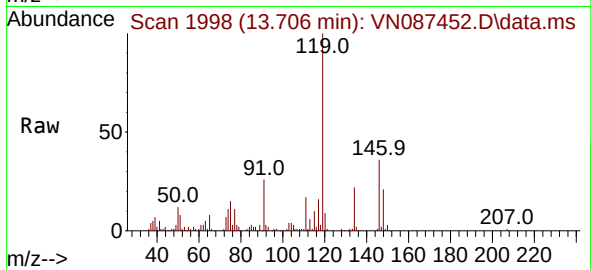
Tgt Ion:119 Resp: 95127

Ion Ratio Lower Upper

119 100

134 24.7 0.0 51.4

91 26.4 0.0 52.0



#83

1,3-Dichlorobenzene

Concen: 5.226 ug/l

RT: 13.717 min Scan# 2000

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

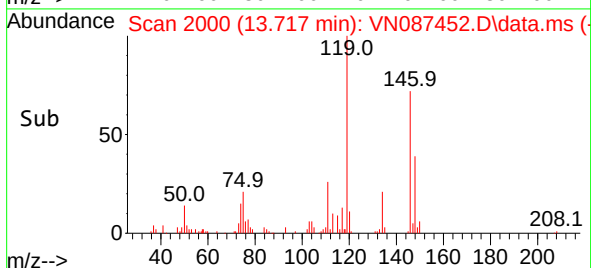
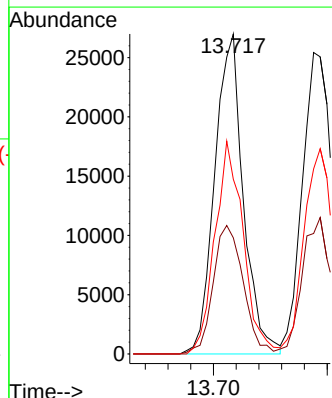
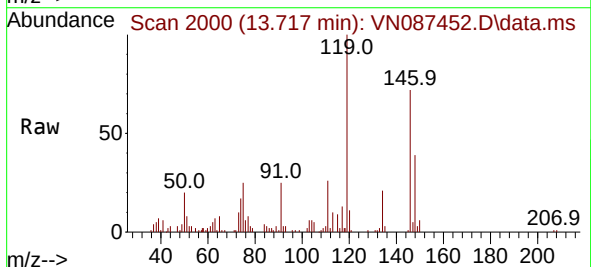
Tgt Ion:146 Resp: 47197

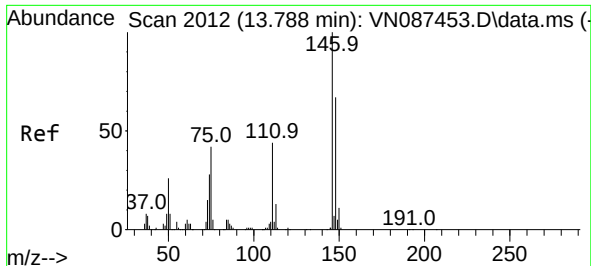
Ion Ratio Lower Upper

146 100

111 42.2 21.9 65.5

148 66.0 31.3 93.9

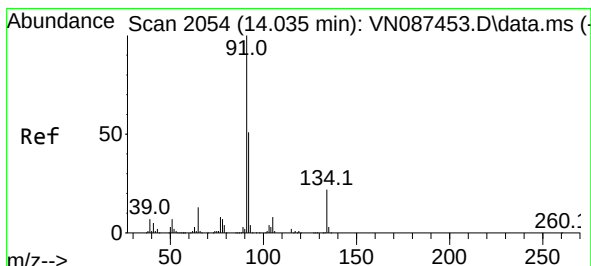
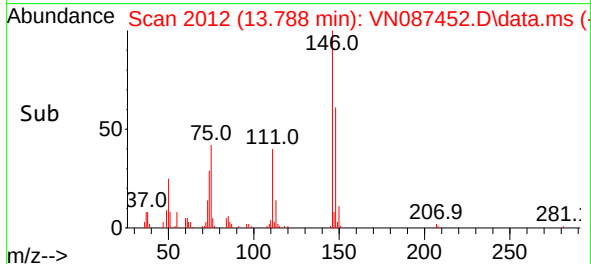
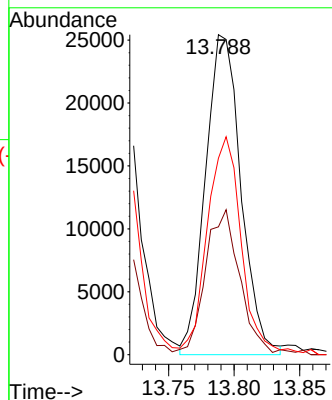
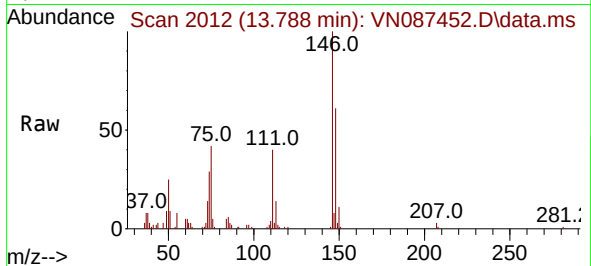




#84  
1,4-Dichlorobenzene  
Concen: 5.216 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

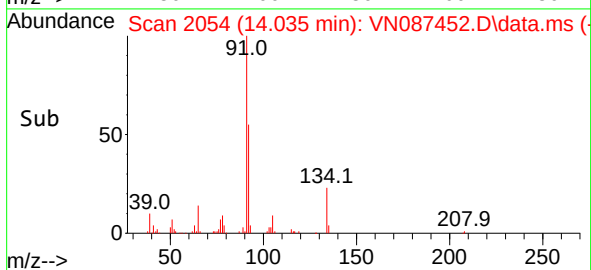
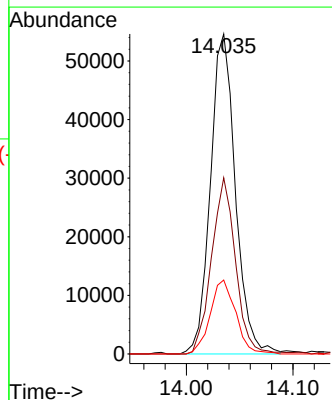
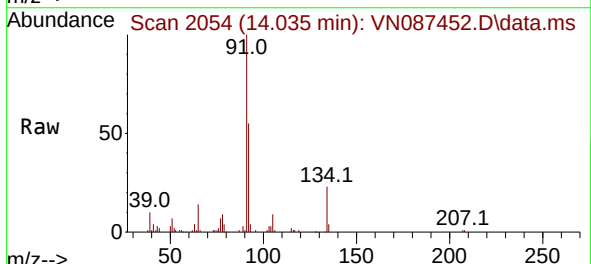
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

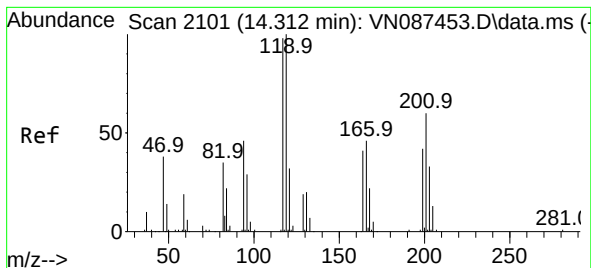
Tgt Ion:146 Resp: 47756  
Ion Ratio Lower Upper  
146 100  
111 43.9 21.1 63.1  
148 65.4 31.4 94.3



#85  
n-Butylbenzene  
Concen: 5.096 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

Tgt Ion: 91 Resp: 89004  
Ion Ratio Lower Upper  
91 100  
92 52.7 0.0 106.6  
134 23.7 0.0 44.4





#86

Hexachloroethane

Concen: 5.072 ug/l

RT: 14.312 min Scan# 2101

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA\_N

ClientSampleId :

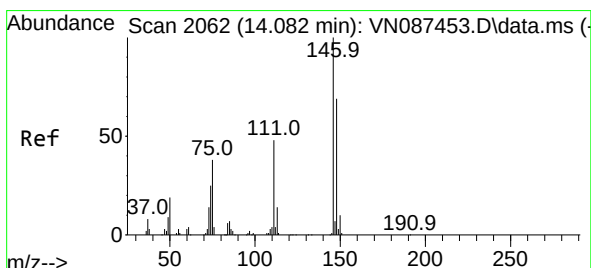
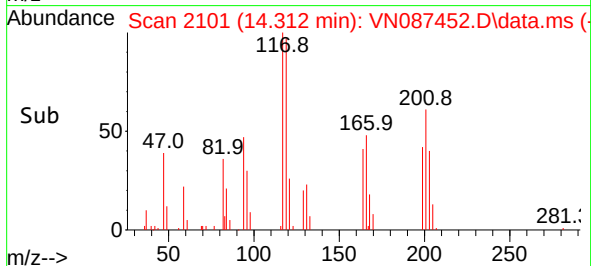
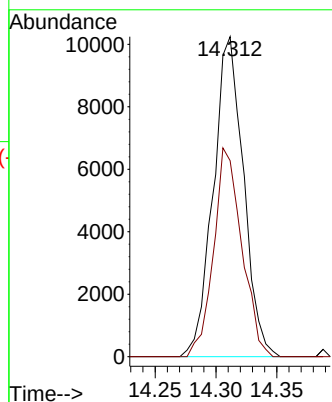
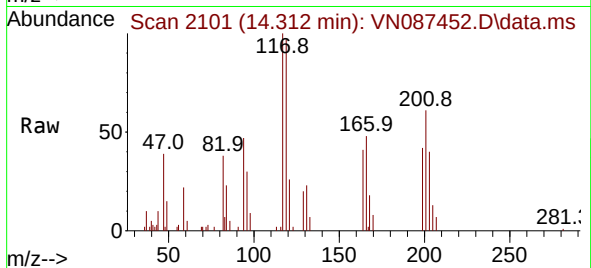
VSTDIC005

Tgt Ion:117 Resp: 17680

Ion Ratio Lower Upper

117 100

201 60.8 29.1 87.4



#87

1,2-Dichlorobenzene

Concen: 5.087 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

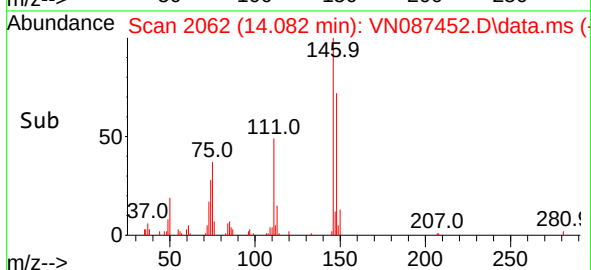
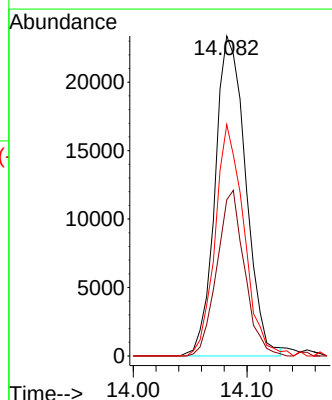
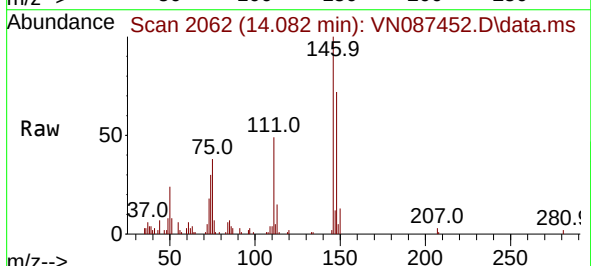
Tgt Ion:146 Resp: 43857

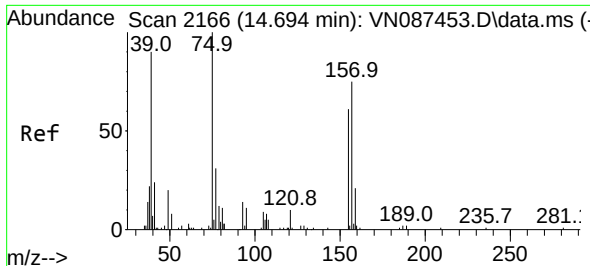
Ion Ratio Lower Upper

146 100

111 46.7 22.9 68.7

148 67.8 31.6 94.7

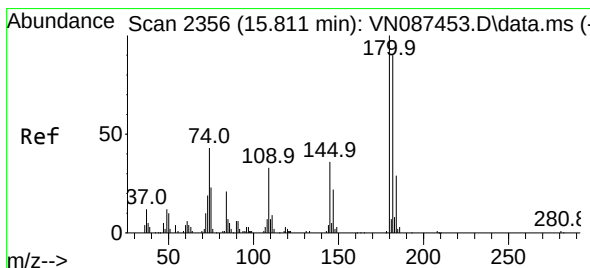
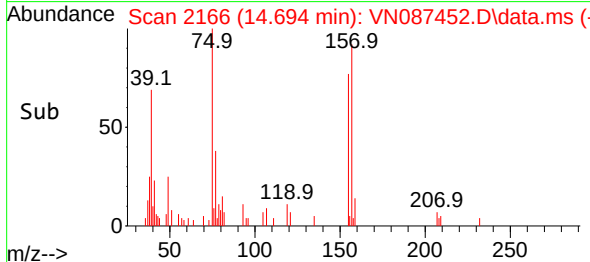
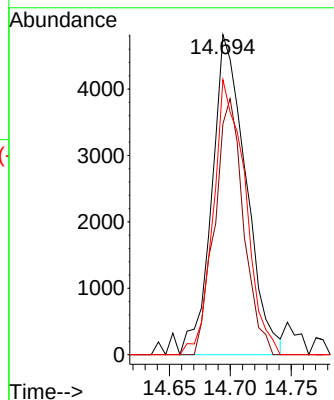
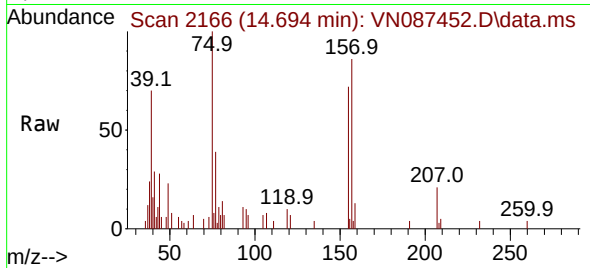




#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 5.257 ug/l  
 RT: 14.694 min Scan# 2166  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

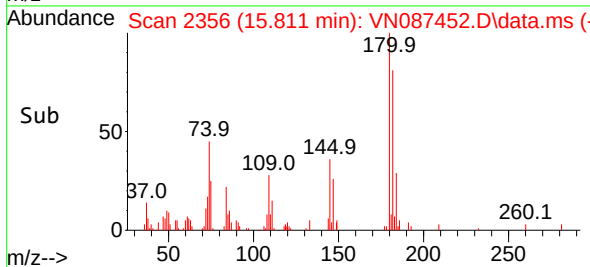
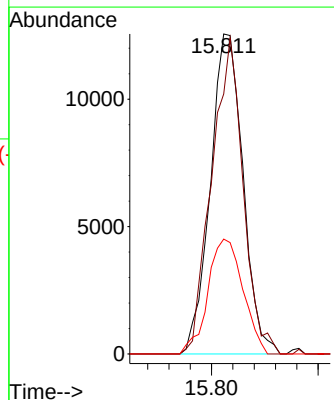
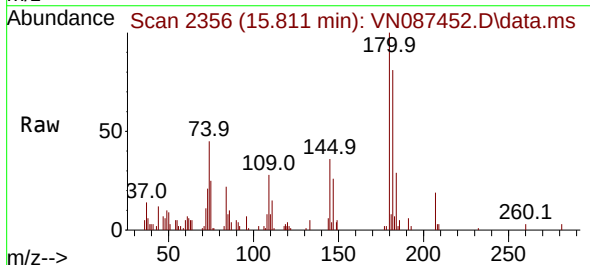
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 9336 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 155       | 68.1  | 55.7  | 83.5 |
| 157       | 80.9  | 65.8  | 98.6 |

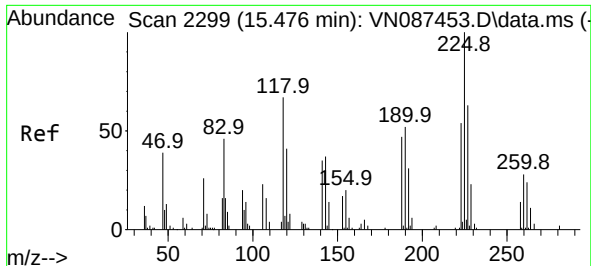


#89  
 1,2,4-Trichlorobenzene  
 Concen: 5.188 ug/l  
 RT: 15.811 min Scan# 2356  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 26729 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.0  | 75.0  | 112.4 |
| 145       | 38.5  | 28.6  | 43.0  |



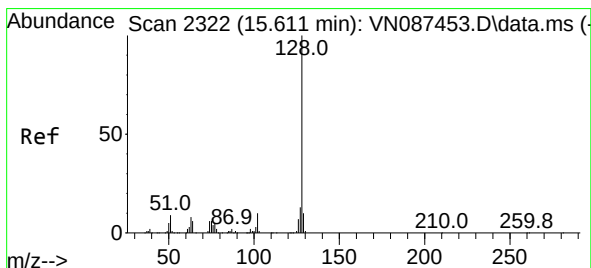
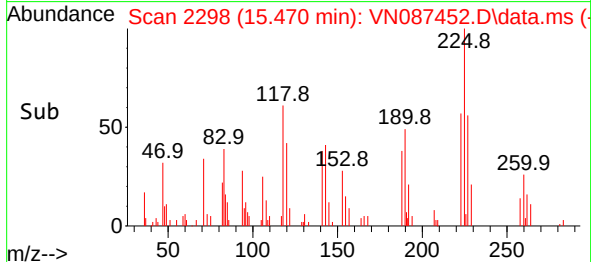
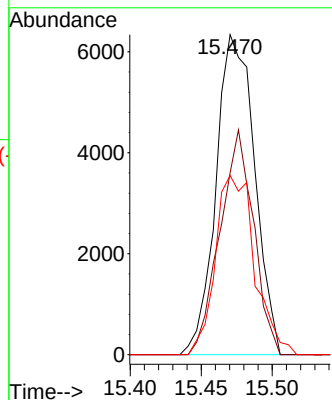
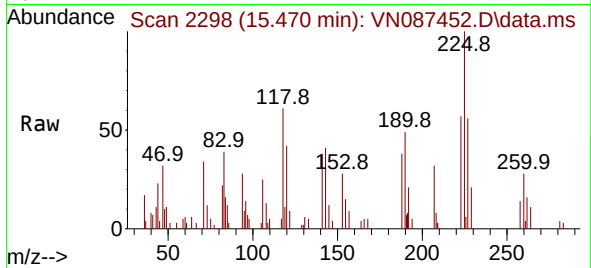




#90  
Hexachlorobutadiene  
Concen: 5.976 ug/l  
RT: 15.470 min Scan# 2197  
Delta R.T. -0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

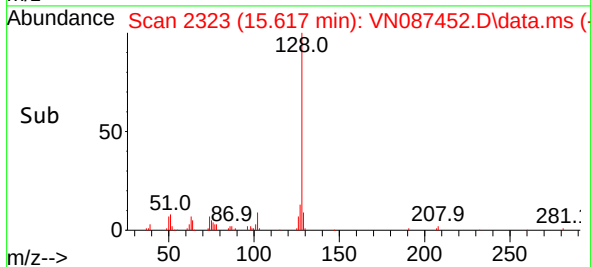
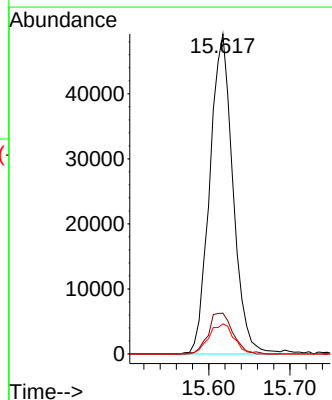
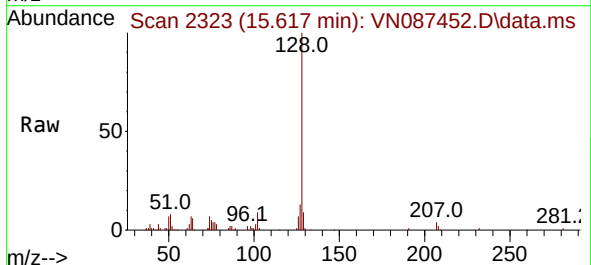
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

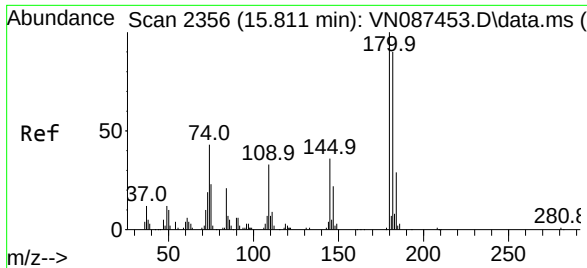
Tgt Ion:225 Resp: 11972  
Ion Ratio Lower Upper  
225 100  
223 61.3 0.0 116.0  
227 36.6 0.0 127.0



#91  
Naphthalene  
Concen: 4.971 ug/l  
RT: 15.617 min Scan# 2323  
Delta R.T. 0.006 min  
Lab File: VN087452.D  
Acq: 05 Aug 2025 13:37

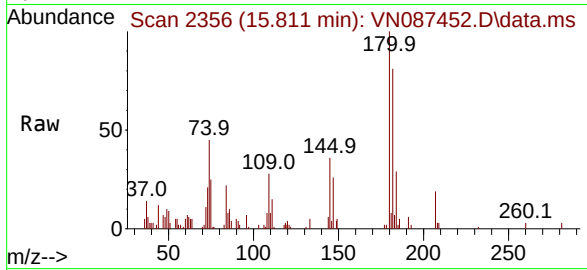
Tgt Ion:128 Resp: 97646  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.2 15.4  
129 10.1 8.9 13.3



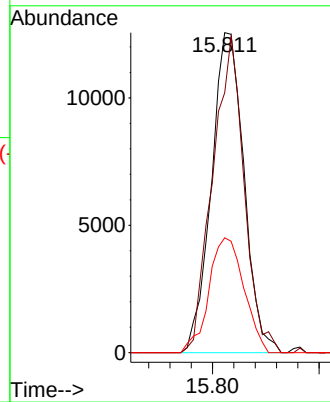
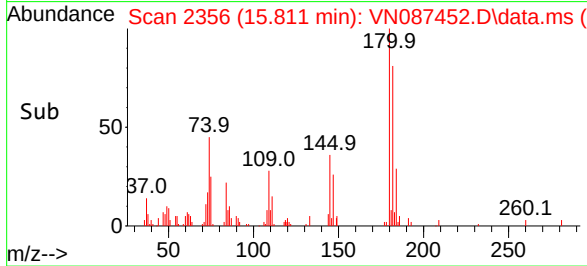


#92  
 1,2,3-Trichlorobenzene  
 Concen: 5.188 ug/l  
 RT: 15.811 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN087452.D  
 Acq: 05 Aug 2025 13:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 26729 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.0  | 0.0   | 187.4 |
| 145       | 38.5  | 0.0   | 71.6  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087453.D  
 Acq On : 05 Aug 2025 13:58  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Aug 06 01:27:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 7.800  | 128   | 64218    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 367115   | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 327914   | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 182238   | 30.767   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | = 102.567% |          |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 170429   | 30.201   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | = 100.667% |          |
| 63) Toluene-d8               | 10.547 | 98    | 453121   | 30.032   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | = 100.100% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 88427    | 21.090   | ug/l       | 100      |
| 3) Chloromethane             | 2.383  | 50    | 92684    | 21.546   | ug/l       | 100      |
| 4) Vinyl Chloride            | 2.542  | 62    | 97984    | 21.476   | ug/l       | 100      |
| 5) Bromomethane              | 2.983  | 94    | 49674    | 20.114   | ug/l       | 100      |
| 6) Chloroethane              | 3.142  | 64    | 61674    | 20.963   | ug/l       | 100      |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 137336   | 20.915   | ug/l       | 100      |
| 8) Diethyl Ether             | 3.965  | 74    | 56555    | 20.674   | ug/l       | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 68121    | 20.344   | ug/l       | 100      |
| 10) 1,1-Dichloroethene       | 4.336  | 96    | 74078    | 21.062   | ug/l       | 100      |
| 11) Methyl Iodide            | 4.577  | 142   | 24065    | 8.733    | ug/l       | 85       |
| 12) Methyl Acetate           | 5.018  | 43    | 132440   | 20.405   | ug/l       | 100      |
| 13) Acrolein                 | 4.171  | 56    | 99154    | 100.048  | ug/l       | 99       |
| 14) Acrylonitrile            | 5.712  | 53    | 290627   | 102.544  | ug/l       | 100      |
| 15) Acetone                  | 4.418  | 58    | 89398    | 110.396  | ug/l       | 100      |
| 16) Carbon Disulfide         | 4.700  | 76    | 221586   | 20.310   | ug/l       | 100      |
| 17) Allyl chloride           | 5.012  | 41    | 144593   | 20.170   | ug/l       | 100      |
| 18) Methylene Chloride       | 5.259  | 84    | 51322    | 11.337   | ug/l       | 98       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 86216    | 20.613   | ug/l       | 100      |
| 20) Diisopropyl ether        | 6.665  | 45    | 334922   | 20.517   | ug/l       | 100      |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 177532   | 21.030   | ug/l       | 100      |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 106998   | 20.791   | ug/l       | 100      |
| 23) tert-Butyl Alcohol       | 5.518  | 59    | 121824   | 101.156  | ug/l       | # 100    |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 327775   | 20.452   | ug/l       | 100      |
| 25) Chloroform               | 7.947  | 83    | 180797   | 20.518   | ug/l       | 100      |
| 26) Cyclohexane              | 8.241  | 56    | 142519   | 21.086   | ug/l       | 100      |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 120007   | 20.042   | ug/l       | 100      |
| 30) 2-Butanone               | 7.471  | 43    | 446235   | 101.104  | ug/l       | 100      |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 156255   | 20.233   | ug/l       | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147  | 97    | 151297   | 19.812   | ug/l       | 100      |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 127325   | 20.070   | ug/l       | 100      |
| 34) Benzene                  | 8.588  | 78    | 377003   | 19.946   | ug/l       | 100      |
| 35) Methacrylonitrile        | 7.765  | 41    | 97561    | 20.484   | ug/l       | 100      |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 155656   | 20.373   | ug/l       | 100      |
| 37) Trichloroethene          | 9.335  | 130   | 84369    | 20.264   | ug/l       | 100      |
| 38) Methylcyclohexane        | 9.582  | 83    | 139951   | 20.147   | ug/l       | 100      |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 98038    | 20.230   | ug/l       | 100      |
| 40) Dibromomethane           | 9.688  | 93    | 73356    | 20.175   | ug/l       | 100      |
| 41) Bromodichloromethane     | 9.871  | 83    | 148435   | 19.646   | ug/l       | 100      |
| 42) Vinyl Acetate            | 6.588  | 43    | 1483194  | 102.044  | ug/l       | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087453.D  
 Acq On : 05 Aug 2025 13:58  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

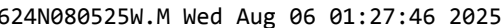
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

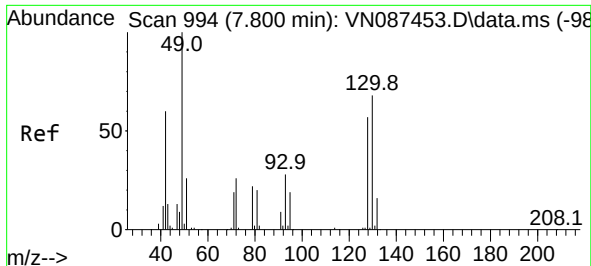
Quant Time: Aug 06 01:27:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 157155   | 18.706  | ug/l   | 97       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 291509   | 20.169  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.677  | 88   | 37910    | 411.437 | ug/l   | 100      |
| 46) Methyl methacrylate       | 9.665  | 41   | 136612   | 20.024  | ug/l   | 100      |
| 47) n-amyl Acetate            | 12.512 | 43   | 17553    | 2.415   | ug/l # | 1        |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 162191   | 19.732  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 162479   | 19.641  | ug/l   | 100      |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 91845    | 19.993  | ug/l   | 100      |
| 51) Ethyl methacrylate        | 10.853 | 69   | 159690   | 19.738  | ug/l   | 100      |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 165895   | 20.044  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.341 | 129  | 103790   | 19.563  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 97894    | 20.073  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 426876   | 100.225 | ug/l   | 100      |
| 56) Bromoform                 | 12.559 | 173  | 67550    | 19.250  | ug/l   | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 876419   | 103.897 | ug/l   | 100      |
| 59) 2-Hexanone                | 11.182 | 43   | 576264   | 100.543 | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 63867    | 19.992  | ug/l   | 100      |
| 62) Toluene                   | 10.612 | 91   | 416382   | 20.573  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 252716   | 20.321  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 88390    | 20.216  | ug/l   | 100      |
| 66) Ethyl Benzene             | 11.941 | 91   | 462372   | 20.497  | ug/l   | 100      |
| 67) m/p-Xylenes               | 12.047 | 106  | 335952   | 40.573  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 164778   | 20.228  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 283102   | 20.353  | ug/l   | 100      |
| 70) Isopropylbenzene          | 12.670 | 105  | 423292   | 20.453  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 148347   | 20.920  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 197975   | 27.161  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 96161    | 20.043  | ug/l   | 100      |
| 74) n-propylbenzene           | 13.012 | 91   | 526811   | 20.382  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 324478   | 20.409  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 363042   | 20.488  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 47119    | 18.843  | ug/l   | 100      |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 322316   | 20.005  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.417 | 119  | 305702   | 20.462  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 358349   | 20.238  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 447541   | 20.577  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 369955   | 20.486  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 186482   | 20.412  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 190232   | 20.538  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 363428   | 20.569  | ug/l   | 100      |
| 86) Hexachloroethane          | 14.312 | 117  | 71198    | 20.189  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 179117   | 20.539  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 37135    | 20.672  | ug/l   | 100      |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 104426   | 20.037  | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 41238    | 20.349  | ug/l   | 100      |
| 91) Naphthalene               | 15.611 | 128  | 402240   | 20.241  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 104426   | 20.037  | ug/l   | 100      |

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

Quant Time: Aug 06 01:27:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration

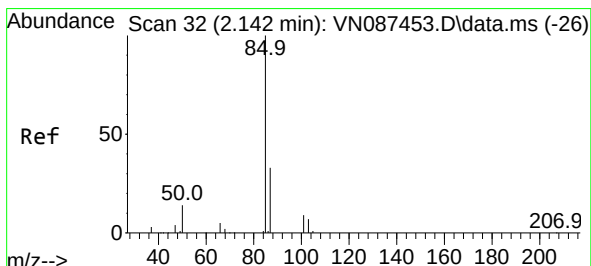
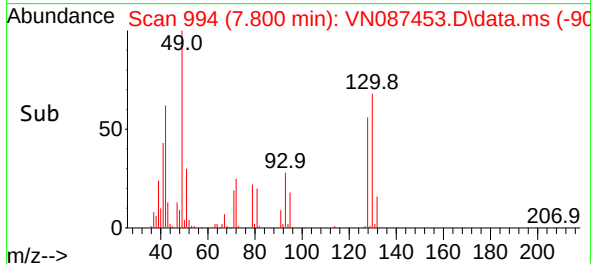
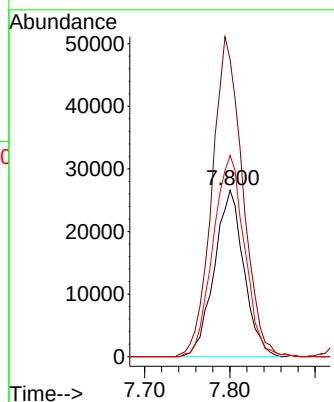
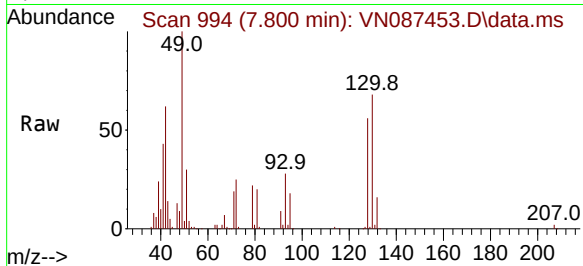




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

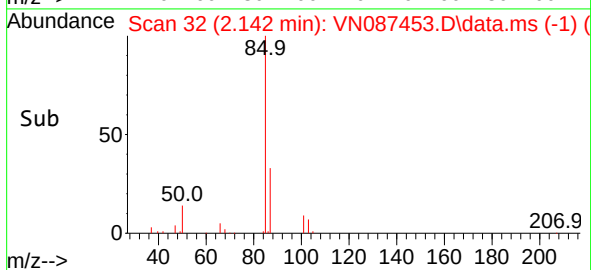
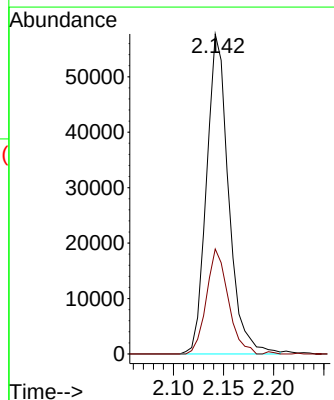
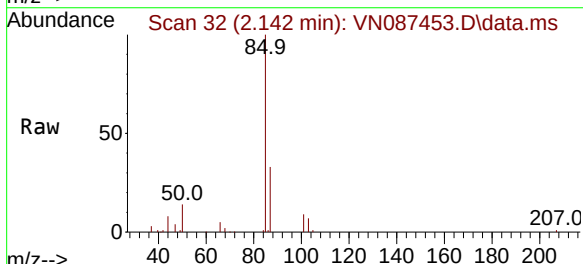
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

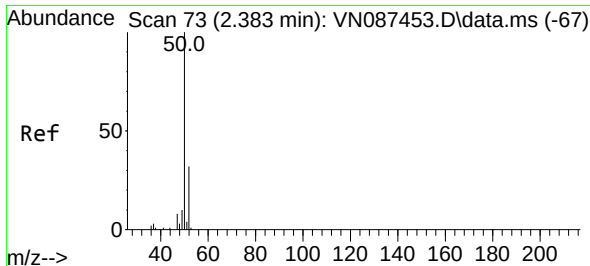
Tgt Ion:128 Resp: 64218  
Ion Ratio Lower Upper  
128 100  
49 197.9 0.0 494.8  
130 128.6 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 21.090 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 85 Resp: 88427  
Ion Ratio Lower Upper  
85 100  
87 32.8 16.4 49.2

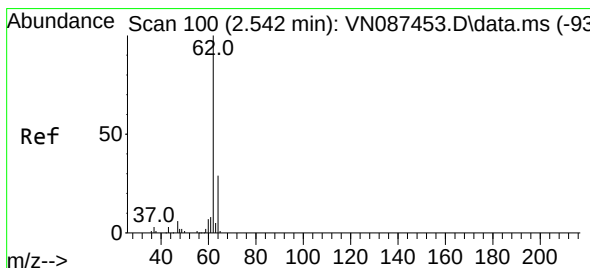
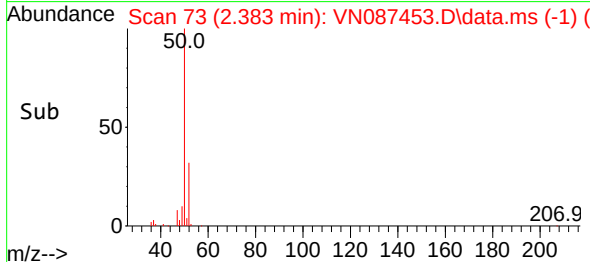
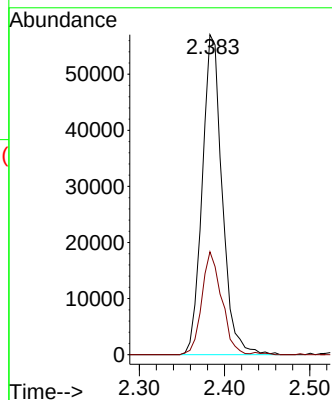
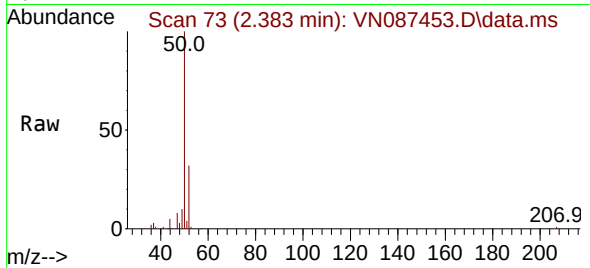




#3  
Chloromethane  
Concen: 21.546 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

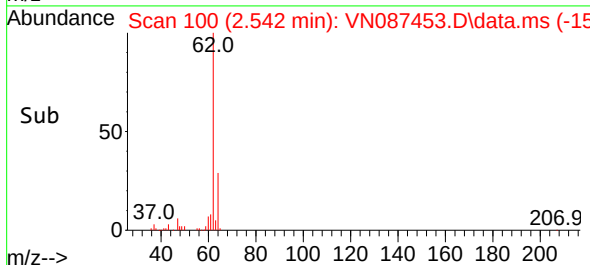
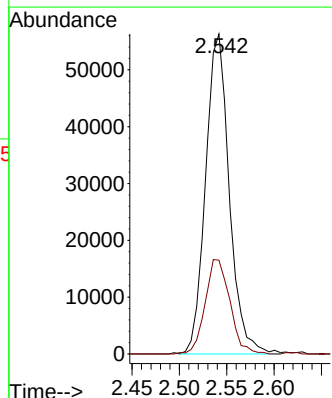
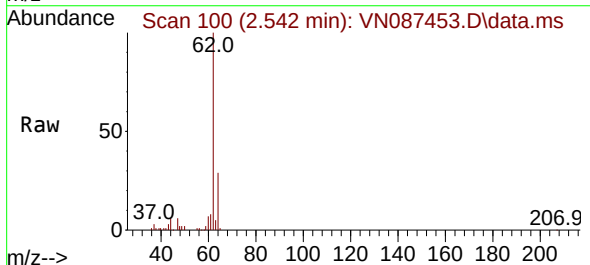
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

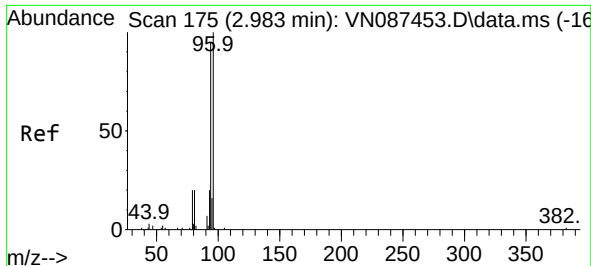
Tgt Ion: 50 Resp: 92684  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.8 38.6



#4  
Vinyl Chloride  
Concen: 21.476 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 62 Resp: 97984  
Ion Ratio Lower Upper  
62 100  
64 29.3 23.4 35.2

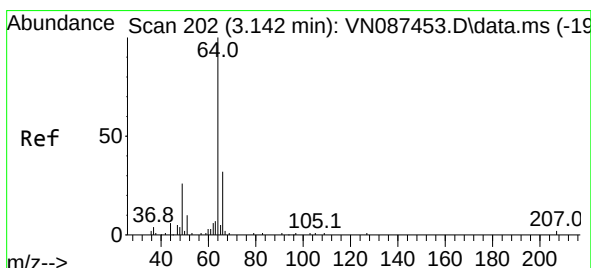
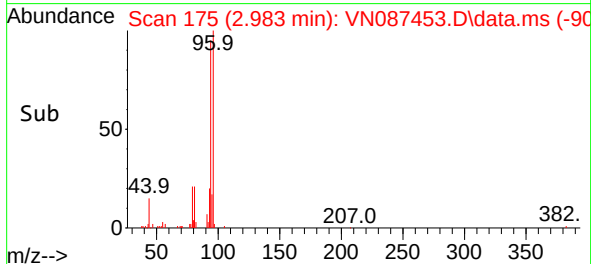
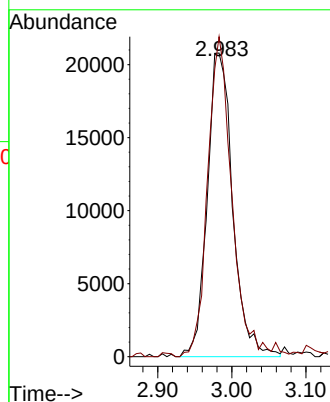
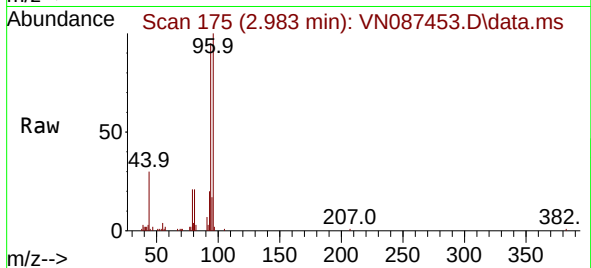




#5  
Bromomethane  
Concen: 20.114 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

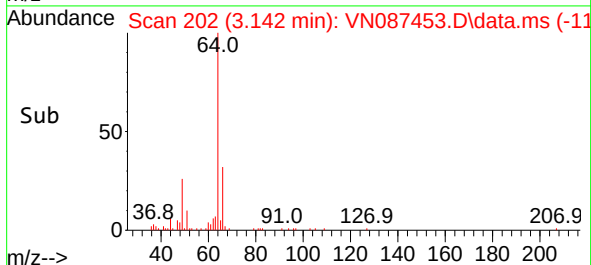
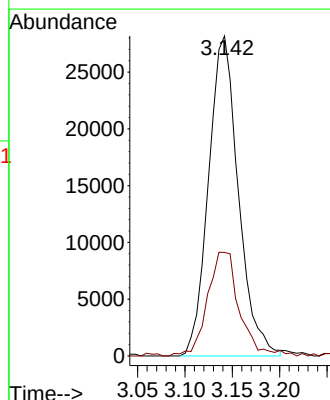
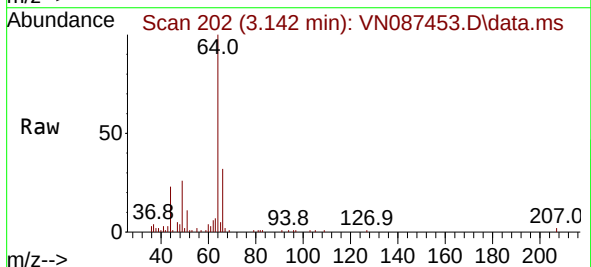
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 94 Resp: 49674  
Ion Ratio Lower Upper  
94 100  
96 105.3 84.2 126.4

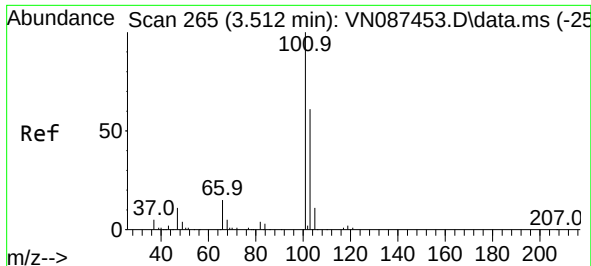


#6  
Chloroethane  
Concen: 20.963 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 64 Resp: 61674  
Ion Ratio Lower Upper  
64 100  
66 31.7 25.4 38.0



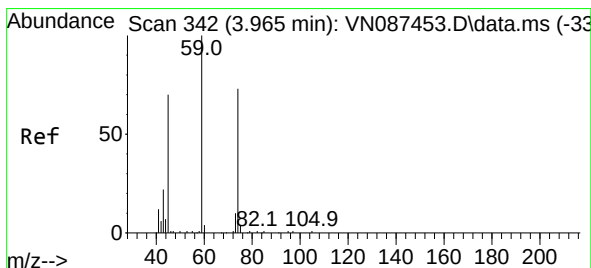
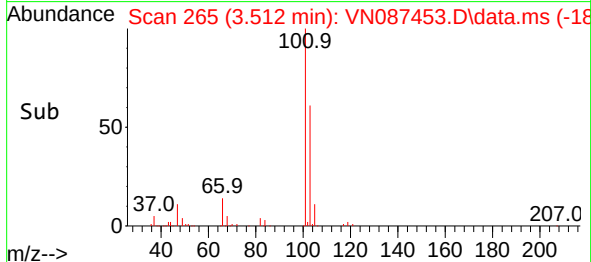
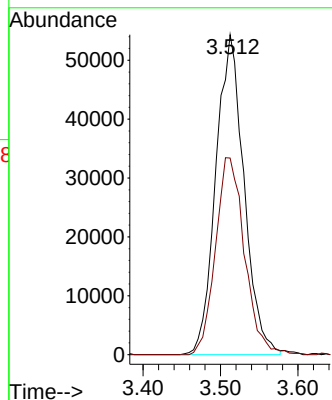
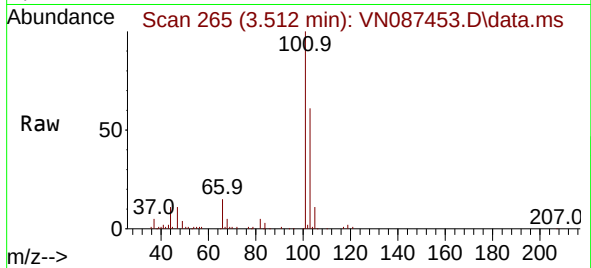




#7  
 Trichlorofluoromethane  
 Concen: 20.915 ug/l  
 RT: 3.512 min Scan# 265  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

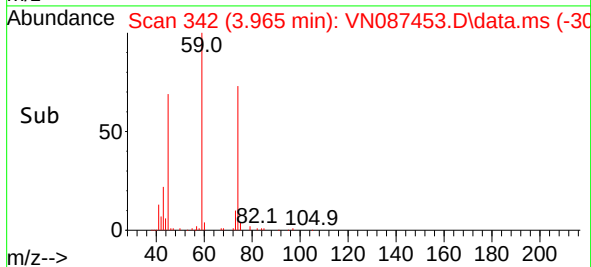
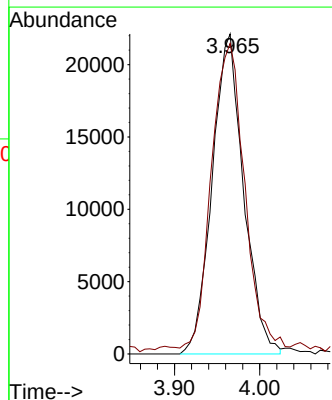
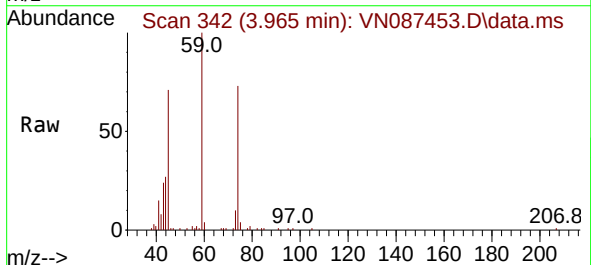
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

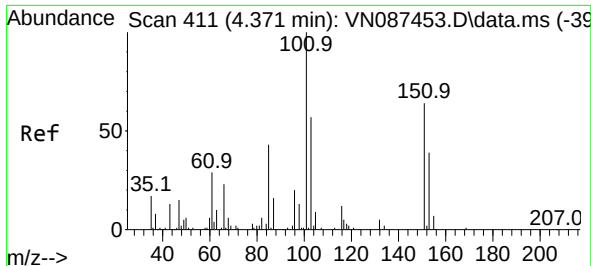
Tgt Ion:101 Resp: 137336  
 Ion Ratio Lower Upper  
 101 100  
 103 61.5 49.2 73.8



#8  
 Diethyl Ether  
 Concen: 20.674 ug/l  
 RT: 3.965 min Scan# 342  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion: 74 Resp: 56555  
 Ion Ratio Lower Upper  
 74 100  
 45 100.5 20.1 180.9

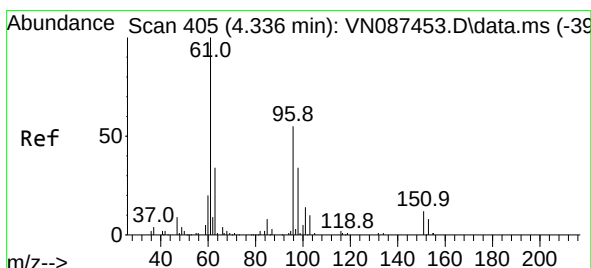
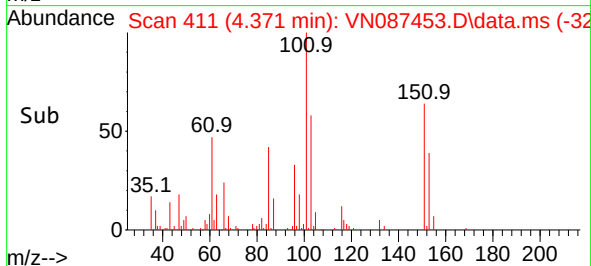
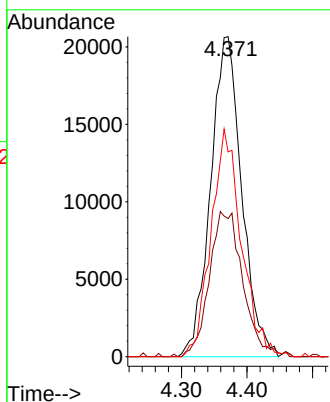
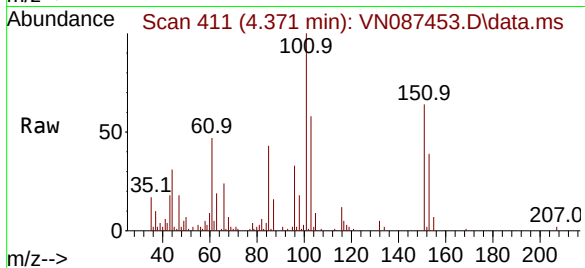




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 20.344 ug/l  
 RT: 4.371 min Scan# 411  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

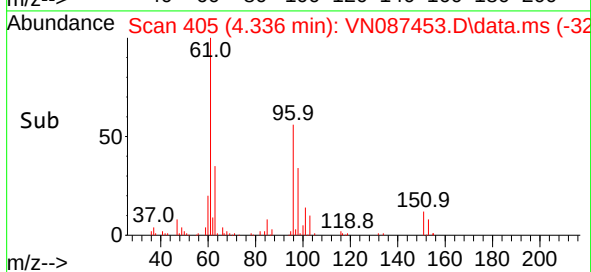
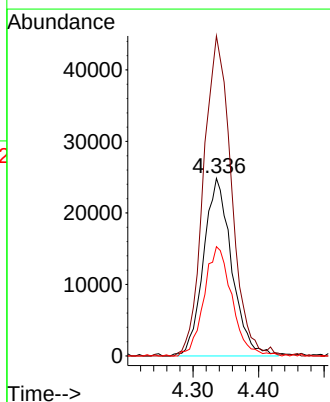
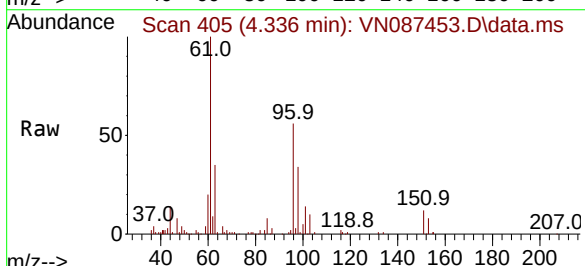
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

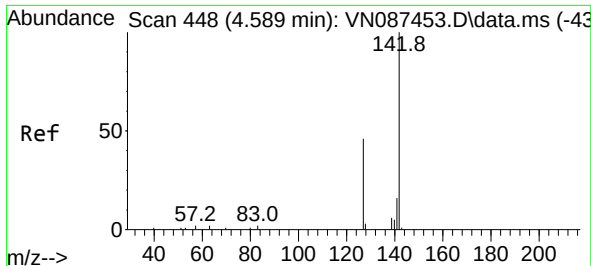
Tgt Ion:101 Resp: 68121  
 Ion Ratio Lower Upper  
 101 100  
 85 28.5 0.0 57.0  
 151 67.1 0.0 134.2



#10  
 1,1-Dichloroethene  
 Concen: 21.062 ug/l  
 RT: 4.336 min Scan# 405  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion: 96 Resp: 74078  
 Ion Ratio Lower Upper  
 96 100  
 61 180.3 144.2 216.4  
 98 62.1 49.7 74.5

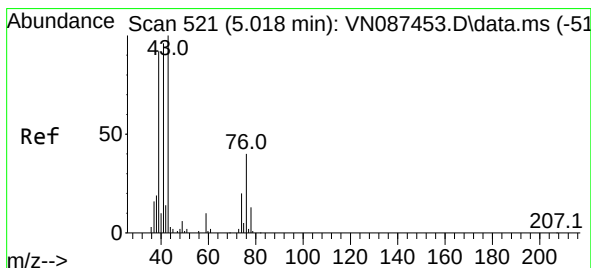
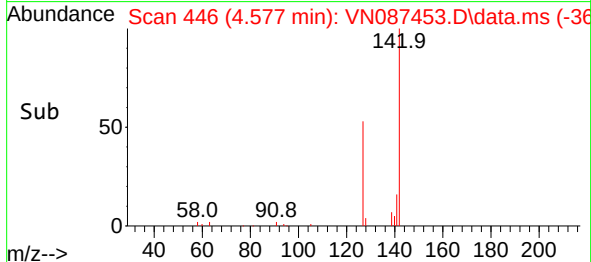
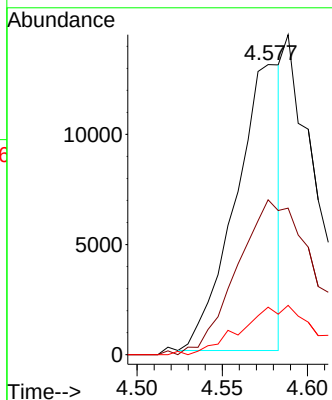
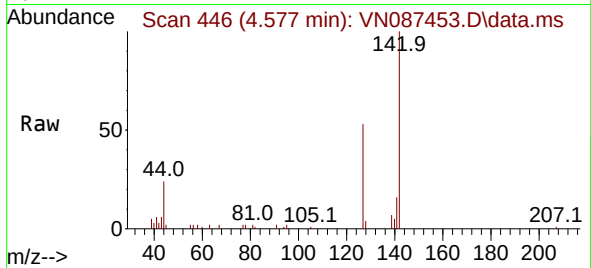




#11  
Methyl Iodide  
Concen: 8.733 ug/l  
RT: 4.577 min Scan# 448  
Delta R.T. -0.012 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

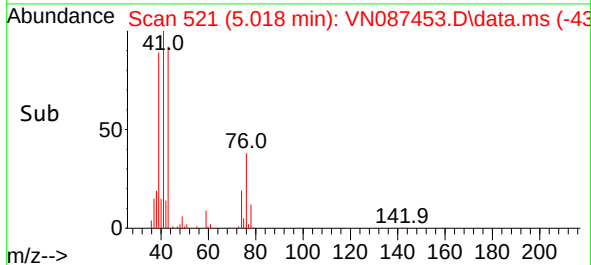
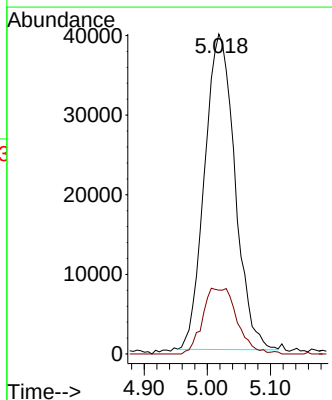
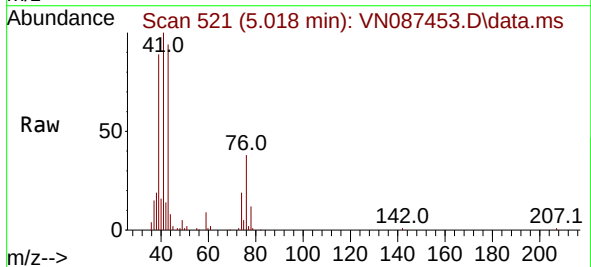
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

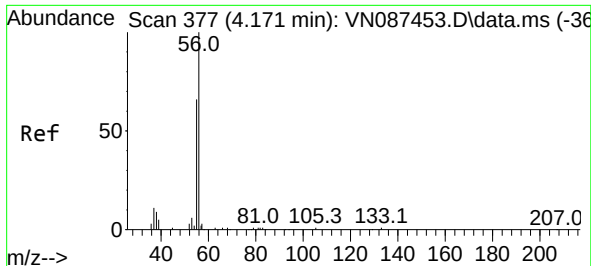
Tgt Ion:142 Resp: 24065  
Ion Ratio Lower Upper  
142 100  
127 57.8 22.9 68.7  
141 17.9 7.7 23.1



#12  
Methyl Acetate  
Concen: 20.405 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 132440  
Ion Ratio Lower Upper  
43 100  
74 20.0 16.0 24.0

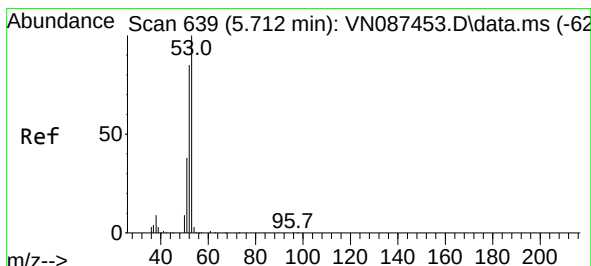
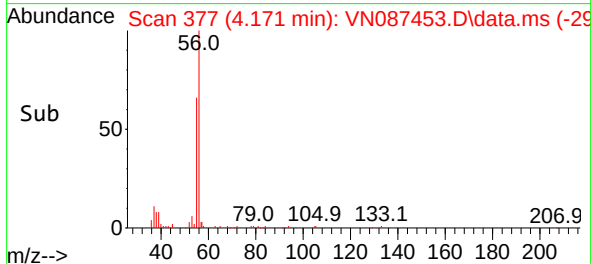
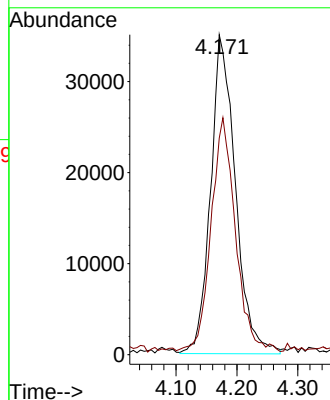
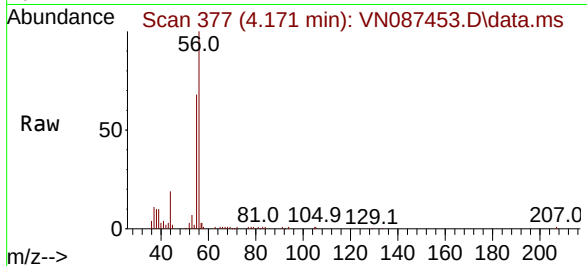




#13  
Acrolein  
Concen: 100.048 ug/l  
RT: 4.171 min Scan# 377  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

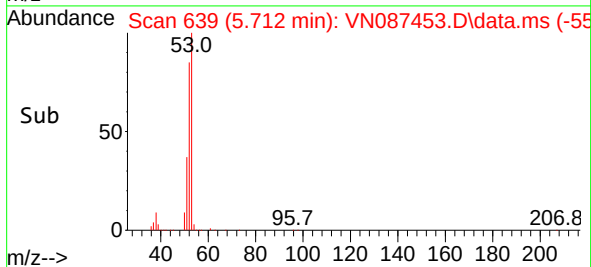
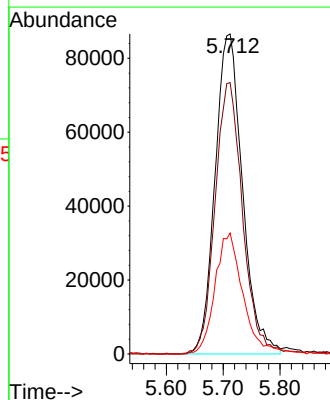
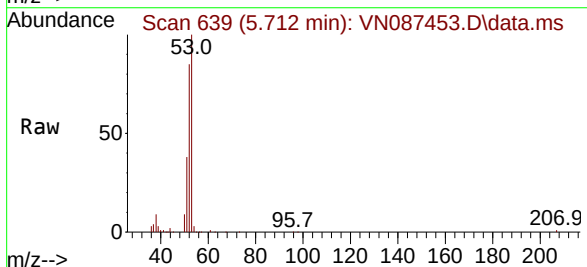
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

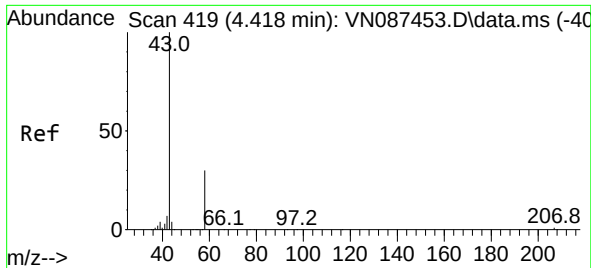
Tgt Ion: 56 Resp: 99154  
Ion Ratio Lower Upper  
56 100  
55 72.1 57.4 86.0



#14  
Acrylonitrile  
Concen: 102.544 ug/l  
RT: 5.712 min Scan# 639  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 53 Resp: 290627  
Ion Ratio Lower Upper  
53 100  
52 84.8 42.4 127.2  
51 37.0 18.5 55.5

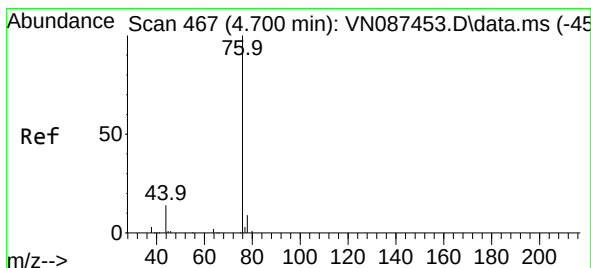
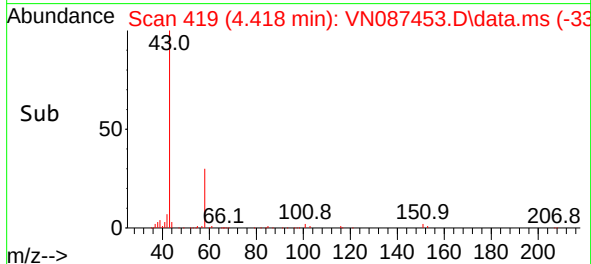
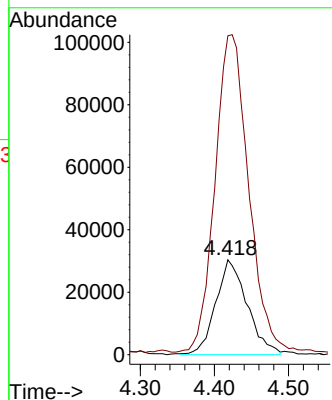
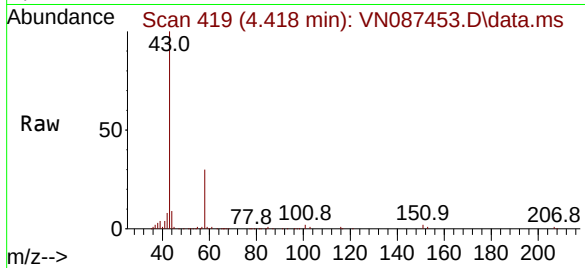




#15  
Acetone  
Concen: 110.396 ug/l  
RT: 4.418 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

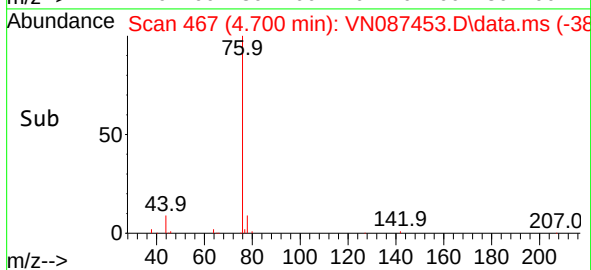
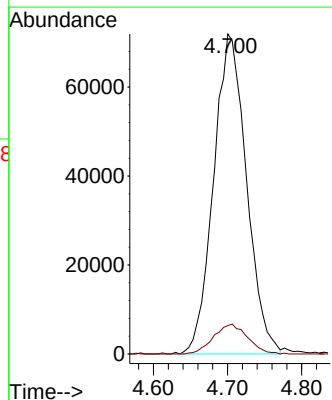
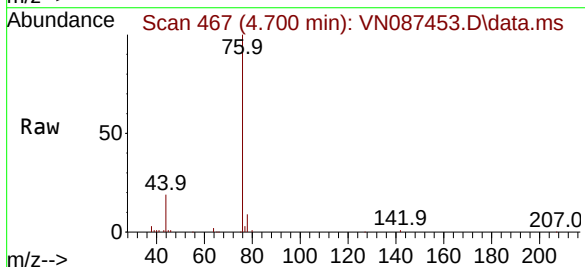
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

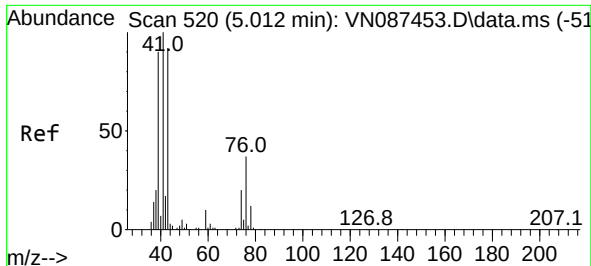
Tgt Ion: 58 Resp: 89398  
Ion Ratio Lower Upper  
58 100  
43 336.1 268.9 403.3



#16  
Carbon Disulfide  
Concen: 20.310 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 221586  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.1 10.7

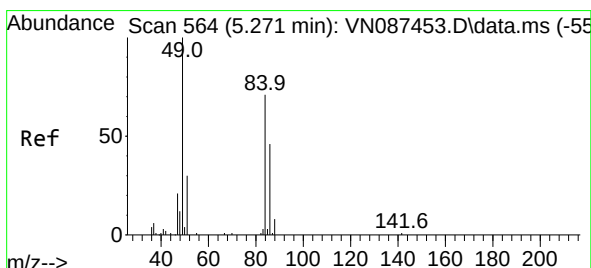
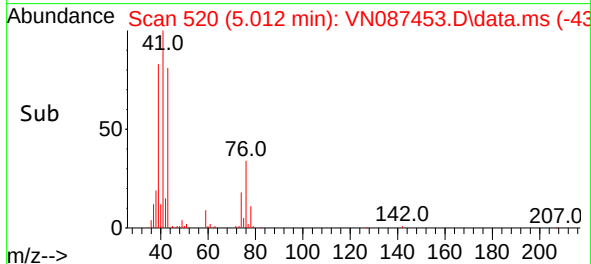
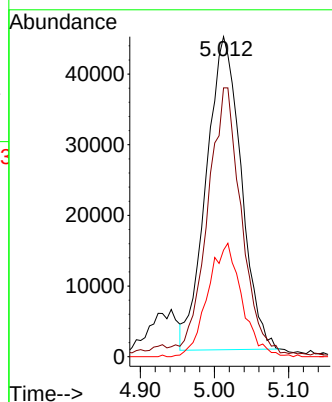
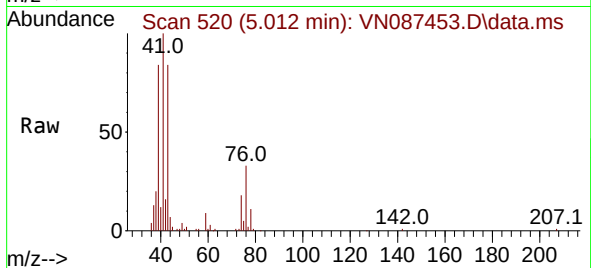




#17  
Allyl chloride  
Concen: 20.170 ug/l  
RT: 5.012 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

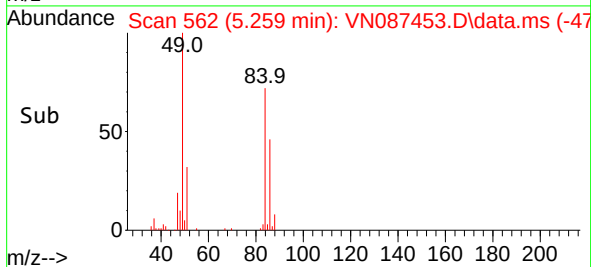
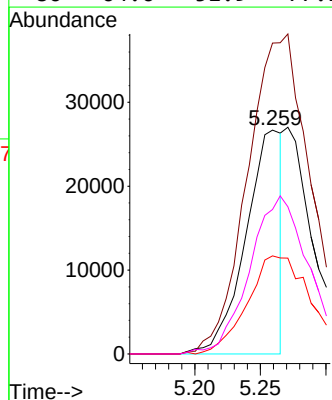
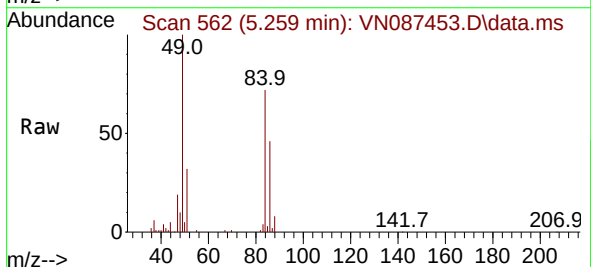
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

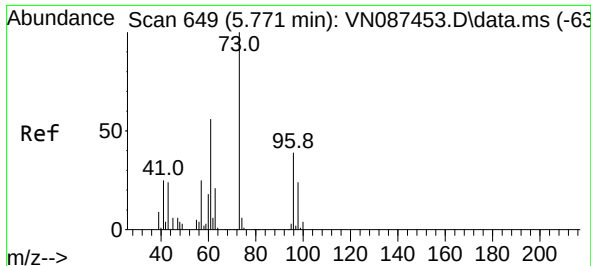
Tgt Ion: 41 Resp: 144593  
Ion Ratio Lower Upper  
41 100  
39 84.8 42.4 127.2  
76 33.7 16.9 50.6



#18  
Methylene Chloride  
Concen: 11.337 ug/l  
RT: 5.259 min Scan# 562  
Delta R.T. -0.012 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 84 Resp: 51322  
Ion Ratio Lower Upper  
84 100  
49 138.9 112.9 169.3  
51 43.8 33.8 50.8  
86 64.6 51.9 77.9

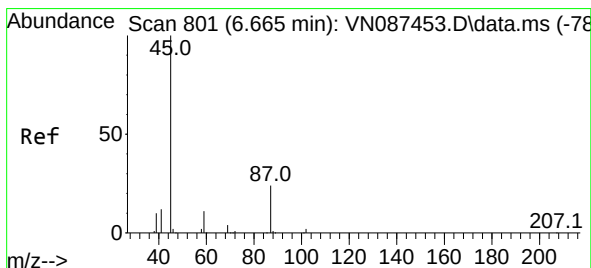
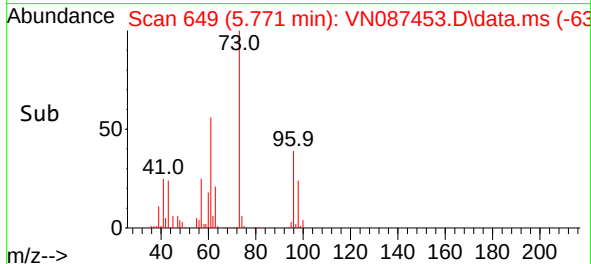
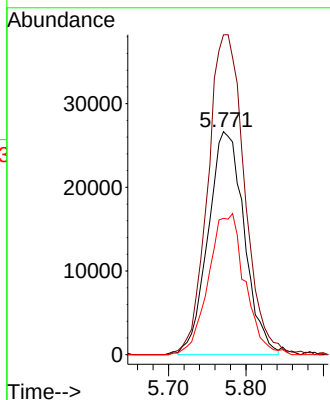
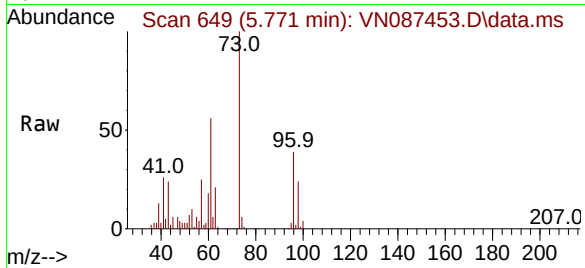




#19  
trans-1,2-Dichloroethene  
Concen: 20.613 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

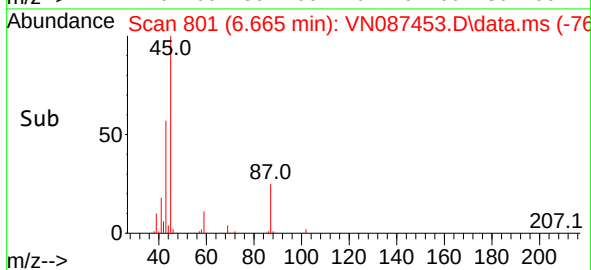
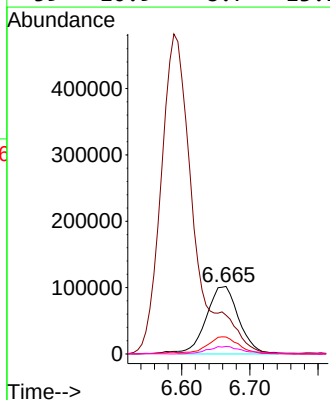
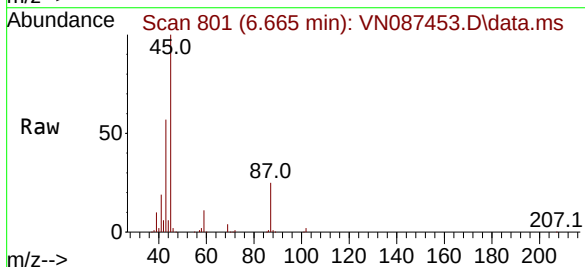
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

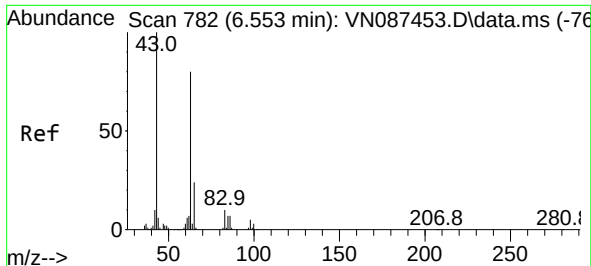
Tgt Ion: 96 Resp: 86216  
Ion Ratio Lower Upper  
96 100  
61 142.8 114.2 171.4  
98 60.9 48.7 73.1



#20  
Diisopropyl ether  
Concen: 20.517 ug/l  
RT: 6.665 min Scan# 801  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 45 Resp: 334922  
Ion Ratio Lower Upper  
45 100  
43 55.9 44.7 67.1  
87 25.2 20.2 30.2  
59 10.9 8.7 13.1

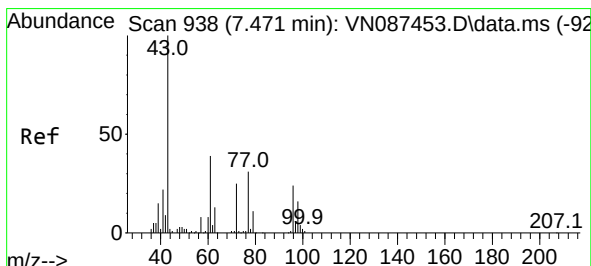
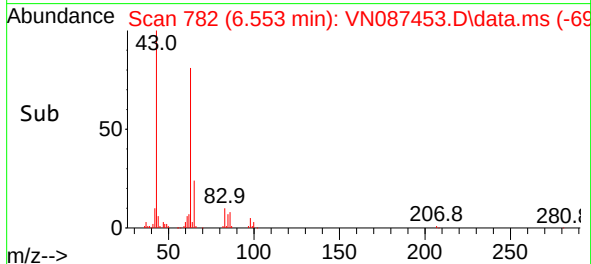
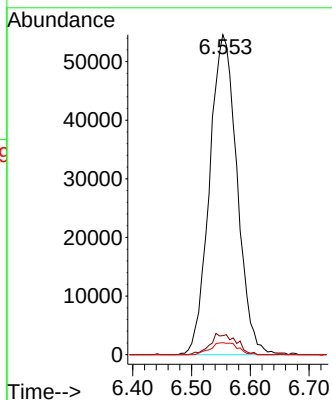
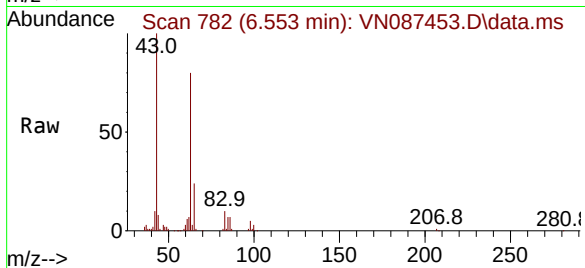




#21  
1,1-Dichloroethane  
Concen: 21.030 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

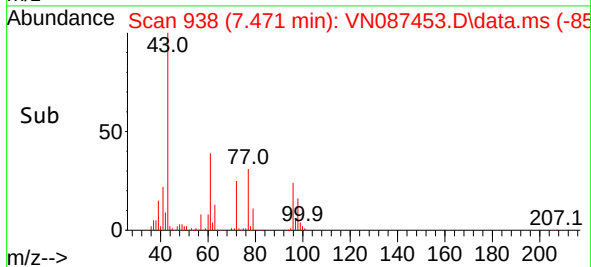
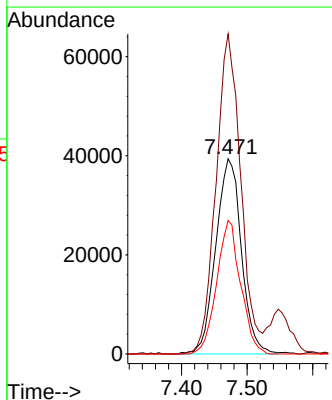
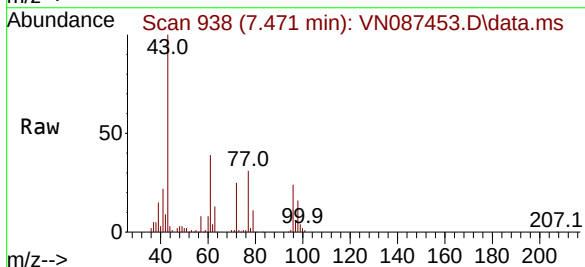
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 63 Resp: 177532  
Ion Ratio Lower Upper  
63 100  
98 6.0 3.0 9.0  
100 3.8 1.9 5.7

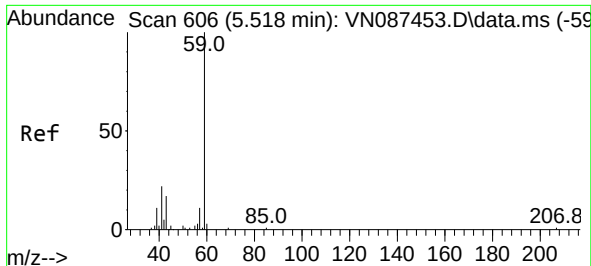


#22  
cis-1,2-Dichloroethene  
Concen: 20.791 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 96 Resp: 106998  
Ion Ratio Lower Upper  
96 100  
61 158.3 126.6 190.0  
98 63.6 50.9 76.3



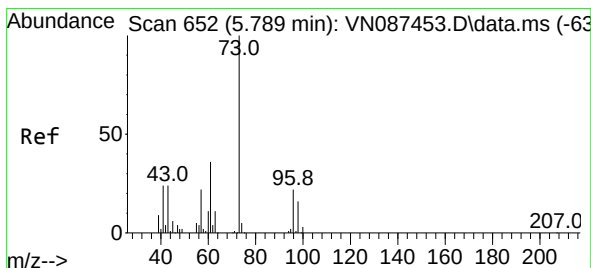
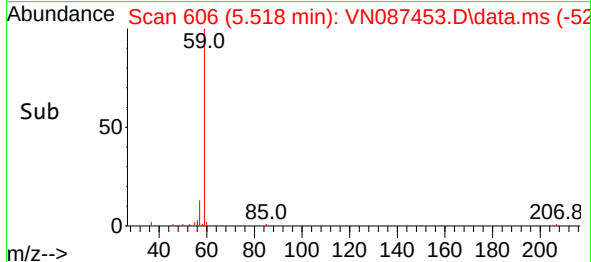
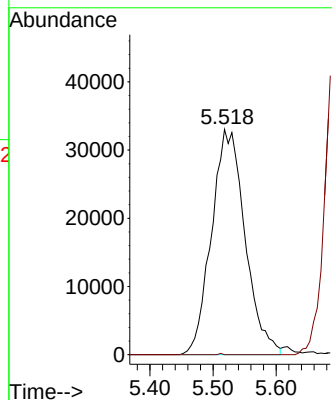
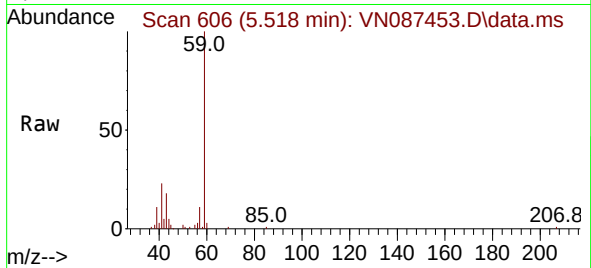




#23  
tert-Butyl Alcohol  
Concen: 101.156 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

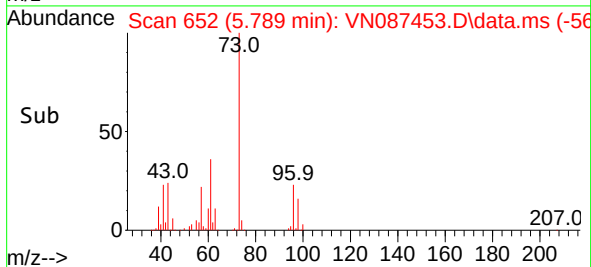
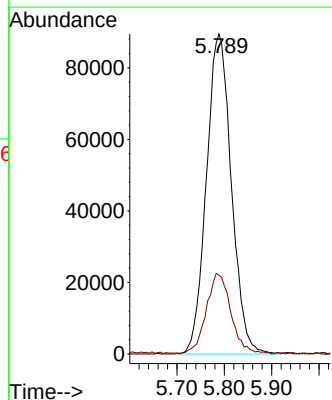
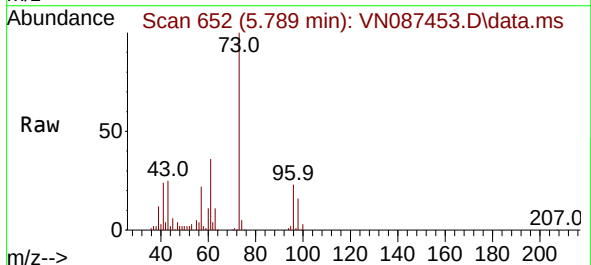
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

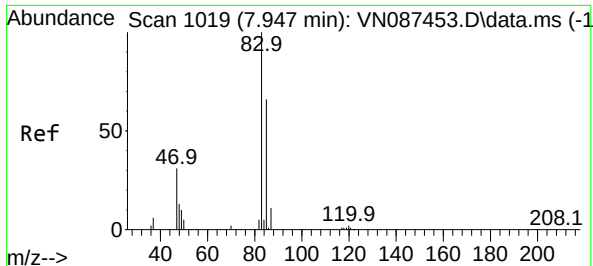
Tgt Ion: 59 Resp: 121824  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#24  
Methyl tert-Butyl Ether  
Concen: 20.452 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 73 Resp: 327775  
Ion Ratio Lower Upper  
73 100  
43 24.9 19.9 29.9





#25

Chloroform

Concen: 20.518 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

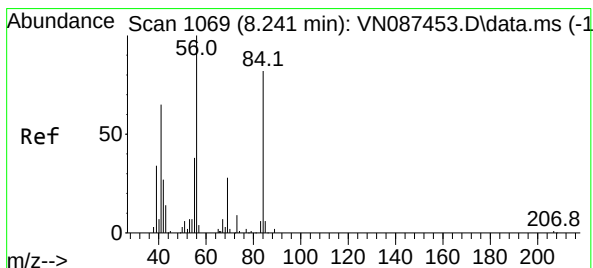
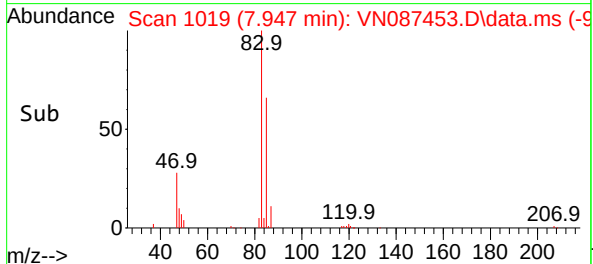
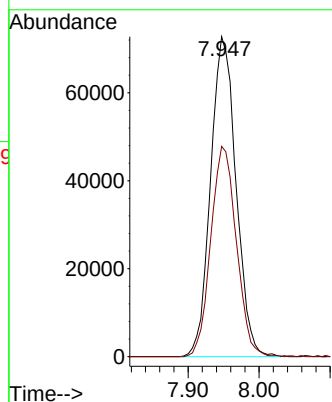
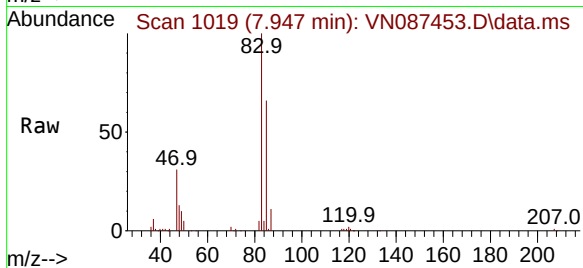
VSTDICCC020

Tgt Ion: 83 Resp: 180797

Ion Ratio Lower Upper

83 100

85 65.7 52.6 78.8



#26

Cyclohexane

Concen: 21.086 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

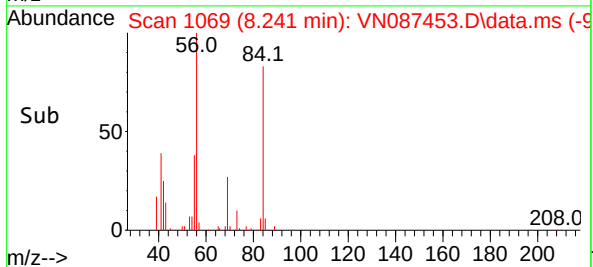
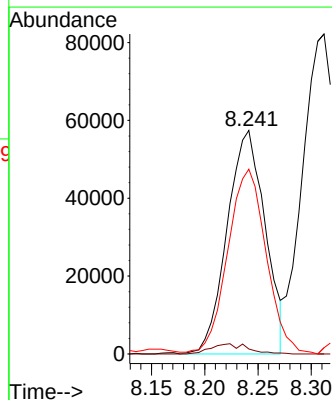
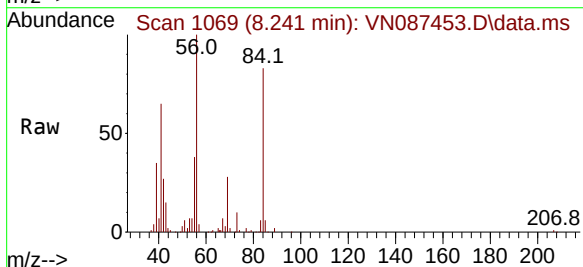
Tgt Ion: 56 Resp: 142519

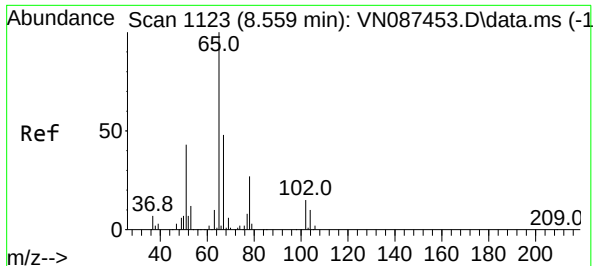
Ion Ratio Lower Upper

56 100

89 2.9 2.3 3.5

84 83.7 67.0 100.4

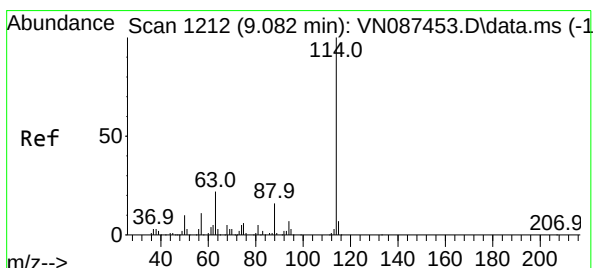
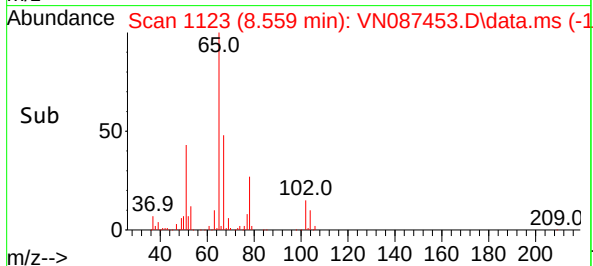
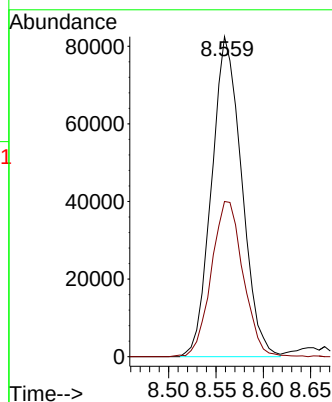
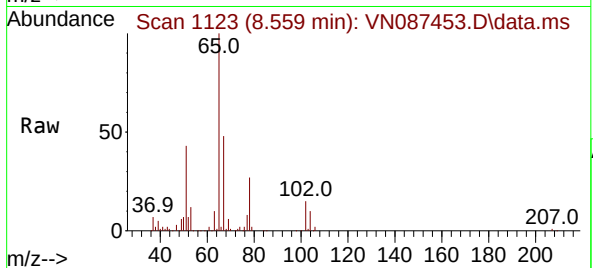




#27  
 1,2-Dichloroethane-d4  
 Concen: 30.767 ug/l  
 RT: 8.559 min Scan# 1123  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

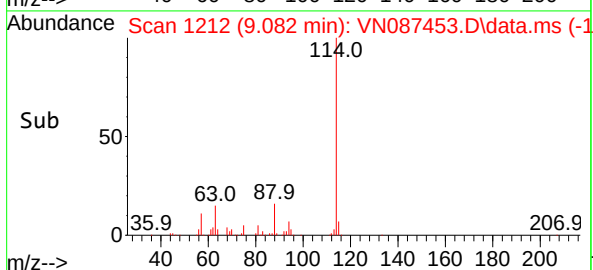
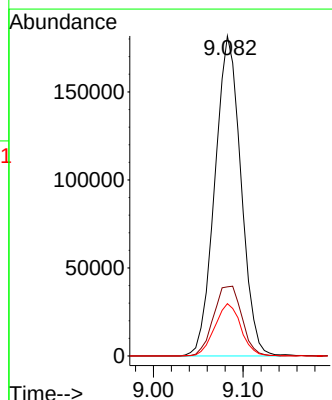
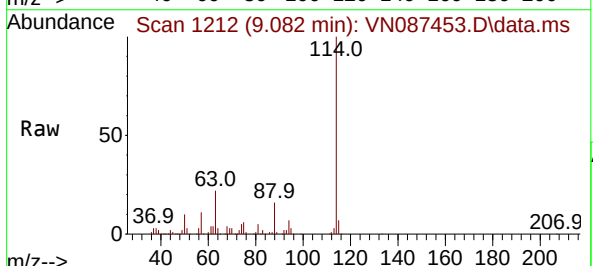
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

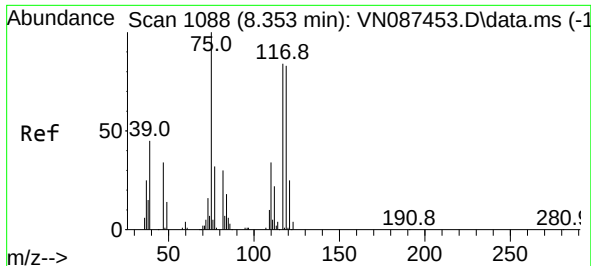
Tgt Ion: 65 Resp: 182238  
 Ion Ratio Lower Upper  
 65 100  
 67 51.0 40.8 61.2



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 9.082 min Scan# 1212  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion: 114 Resp: 367115  
 Ion Ratio Lower Upper  
 114 100  
 63 23.6 18.9 28.3  
 88 16.4 13.1 19.7

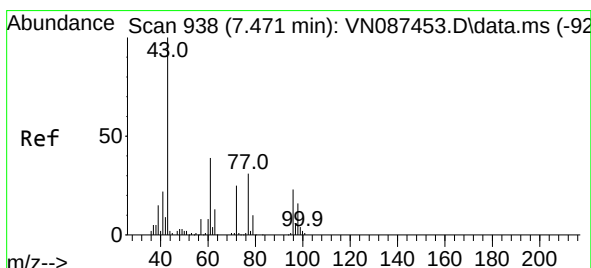
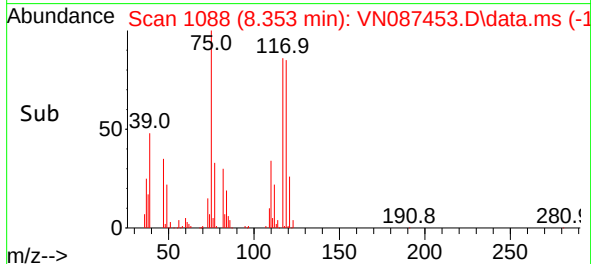
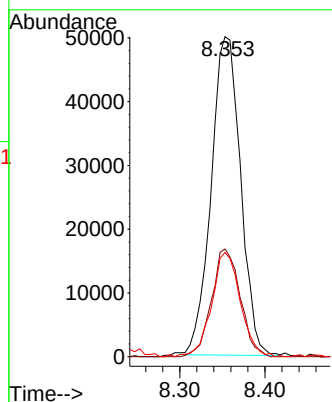
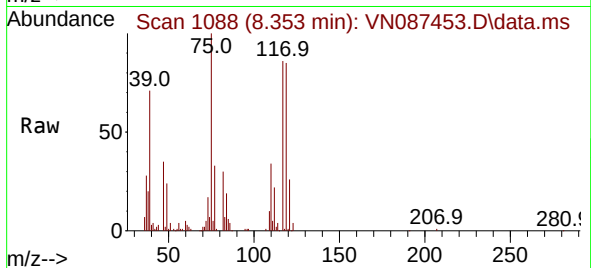




#29  
1,1-Dichloropropene  
Concen: 20.042 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

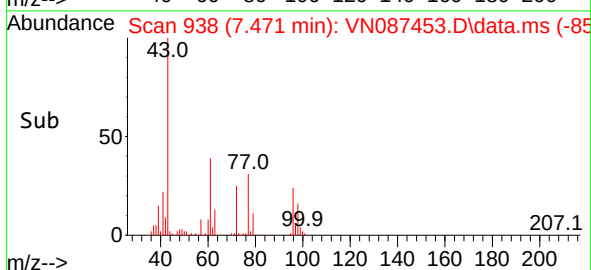
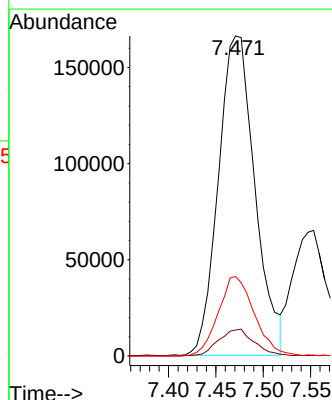
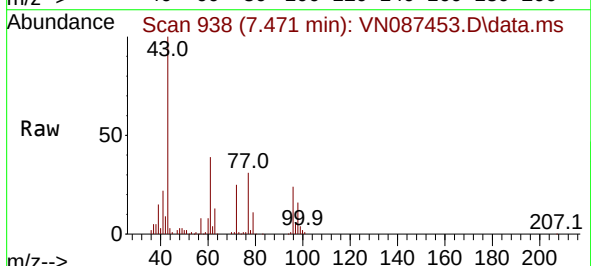
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

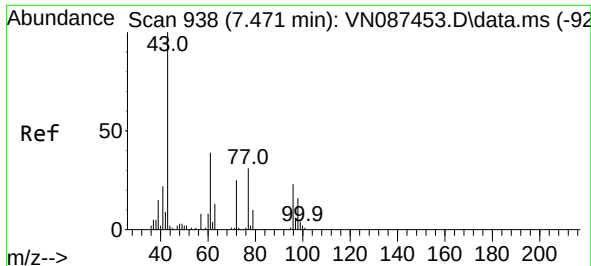
Tgt Ion: 75 Resp: 120007  
Ion Ratio Lower Upper  
75 100  
110 32.9 0.0 65.8  
77 31.8 0.0 63.6



#30  
2-Butanone  
Concen: 101.104 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 446235  
Ion Ratio Lower Upper  
43 100  
57 8.2 6.6 9.8  
72 24.6 19.7 29.5





#31

2,2-Dichloropropane

Concen: 20.233 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

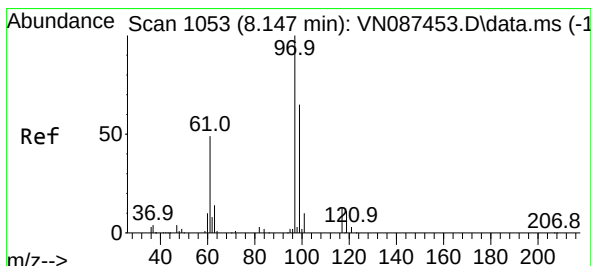
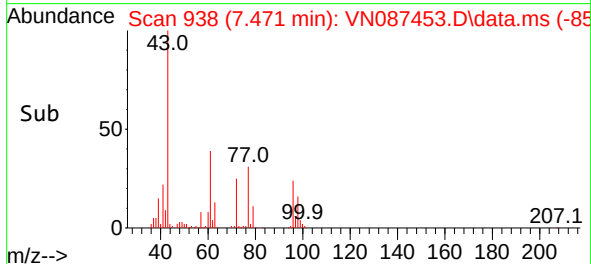
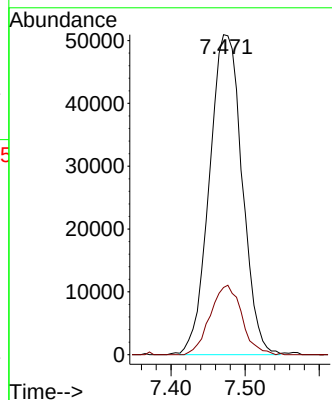
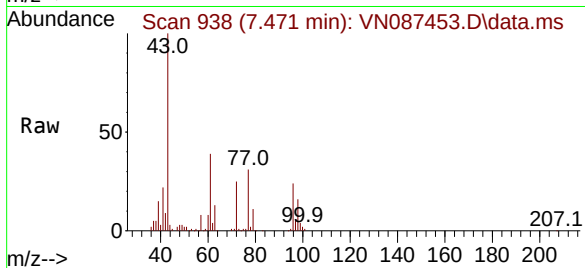
VSTDICCC020

Tgt Ion: 77 Resp: 156255

Ion Ratio Lower Upper

77 100

97 20.9 16.7 25.1



#32

1,1,1-Trichloroethane

Concen: 19.812 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

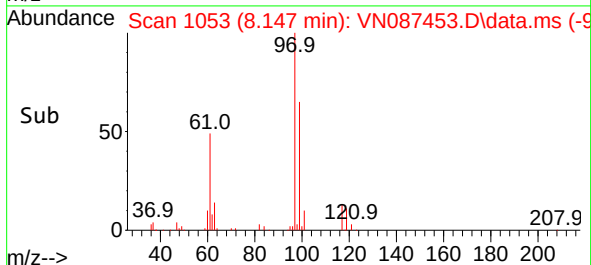
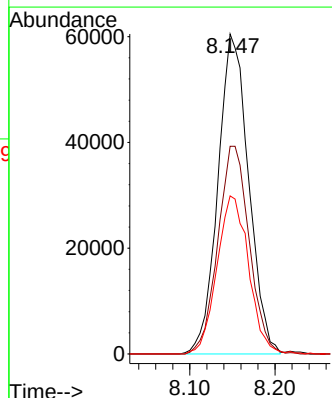
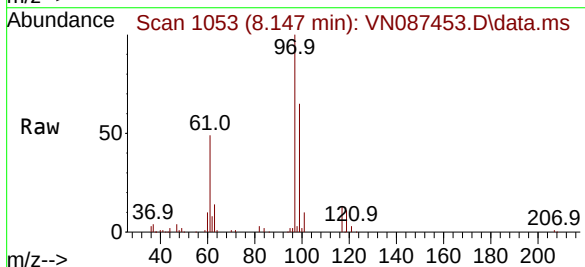
Tgt Ion: 97 Resp: 151297

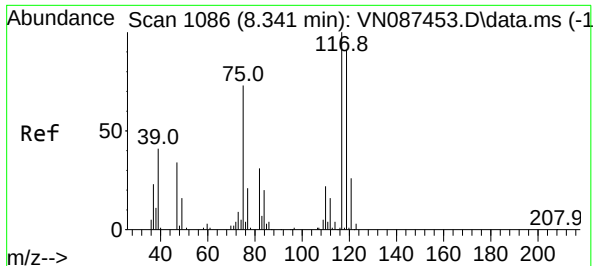
Ion Ratio Lower Upper

97 100

99 66.3 53.0 79.6

61 50.8 40.6 61.0

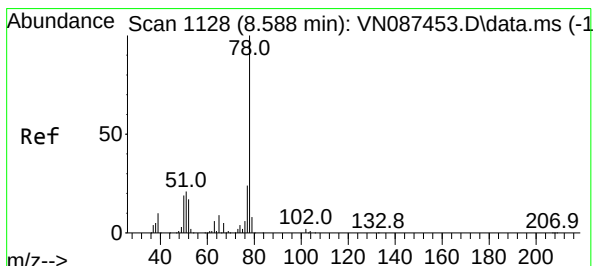
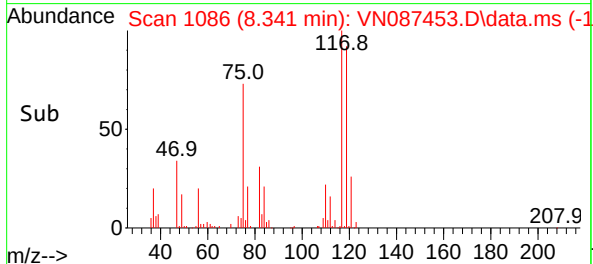
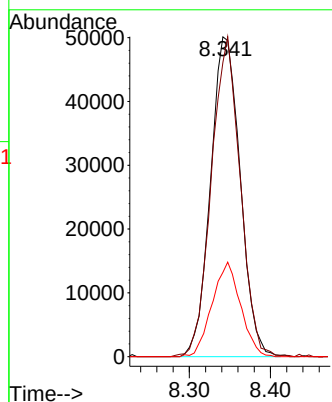
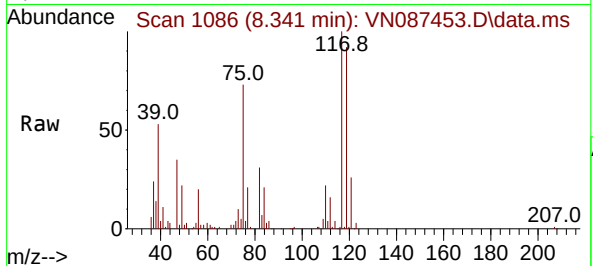




#33  
Carbon Tetrachloride  
Concen: 20.070 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

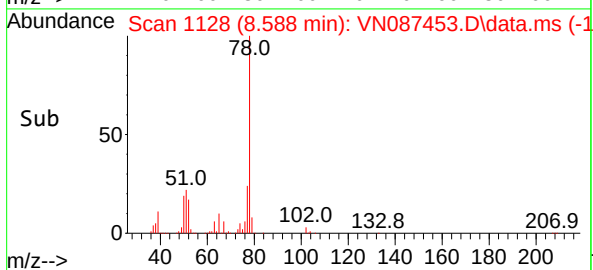
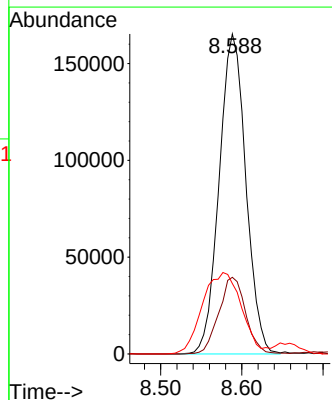
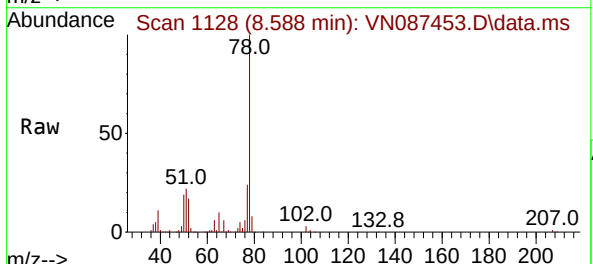
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

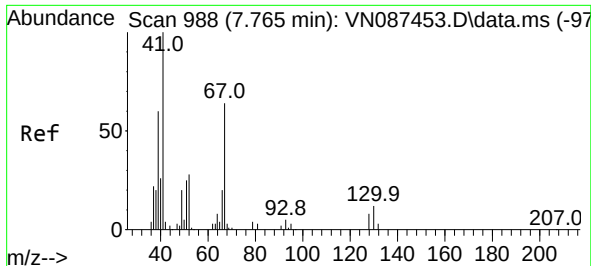
Tgt Ion:117 Resp: 127325  
Ion Ratio Lower Upper  
117 100  
119 91.7 73.4 110.0  
121 26.4 21.1 31.7



#34  
Benzene  
Concen: 19.946 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 78 Resp: 377003  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.2 28.8  
51 21.1 16.9 25.3

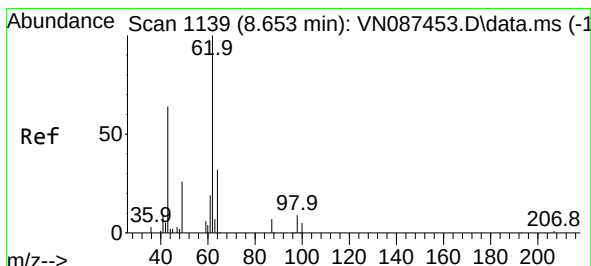
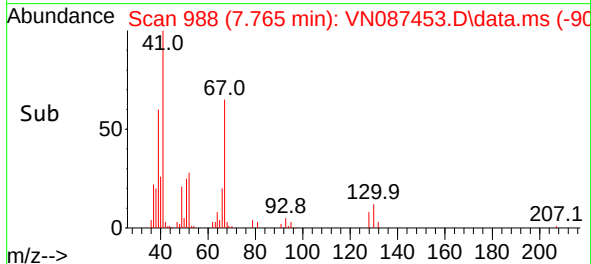
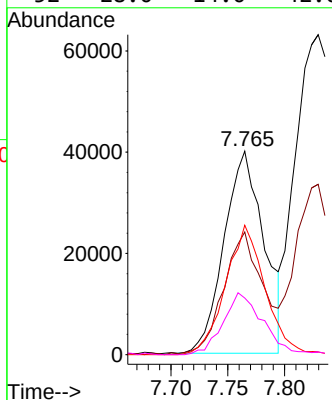
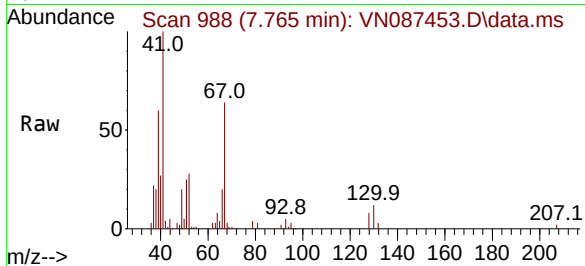




#35  
Methacrylonitrile  
Concen: 20.484 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

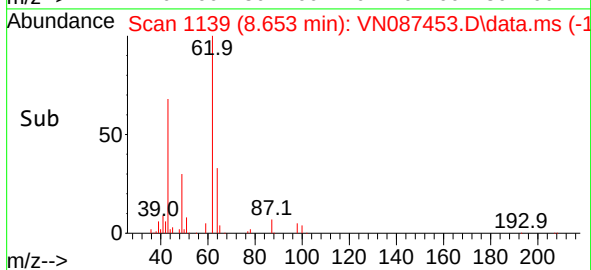
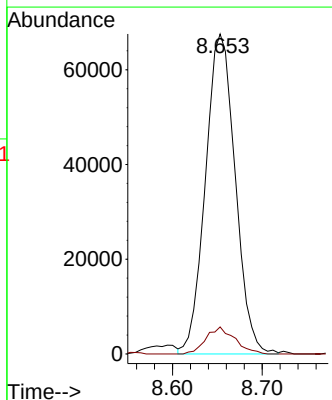
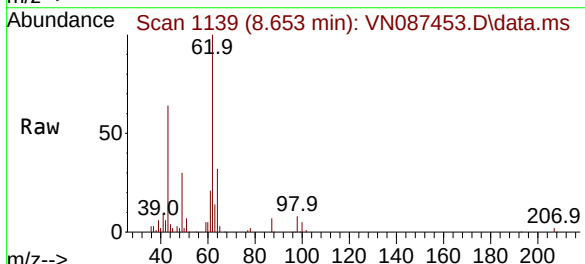
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

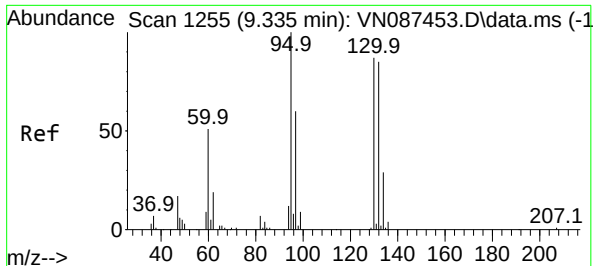
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 97561 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 60.3  | 30.1  | 90.5  |
| 67       | 64.1  | 32.0  | 96.2  |
| 52       | 28.0  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 20.373 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 155656 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.2   | 6.6   | 9.8    |

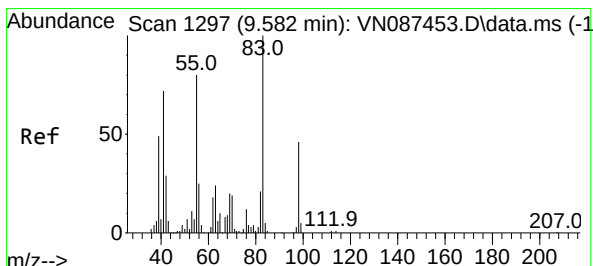
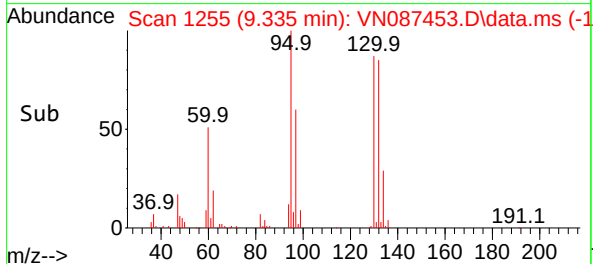
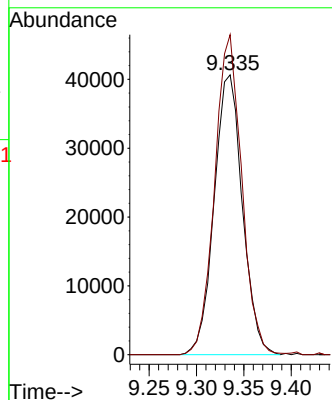
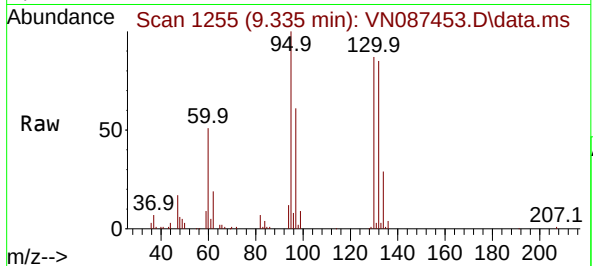




#37  
Trichloroethene  
Concen: 20.264 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

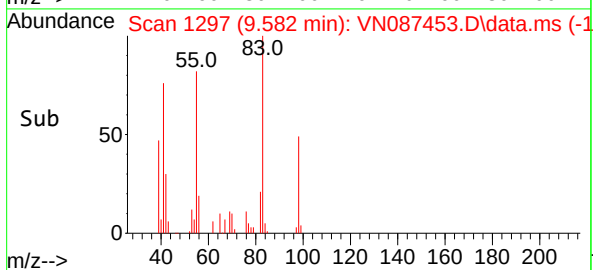
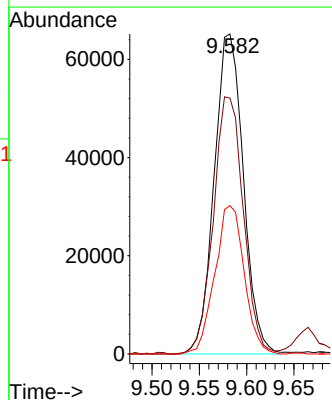
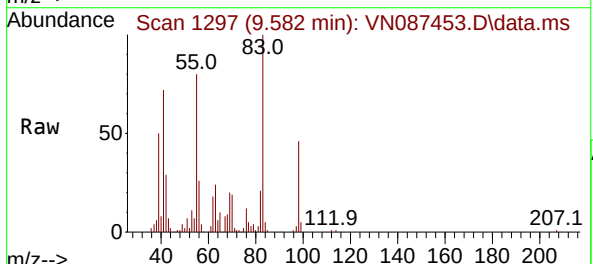
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:130 Resp: 84369  
Ion Ratio Lower Upper  
130 100  
95 114.3 91.4 137.2

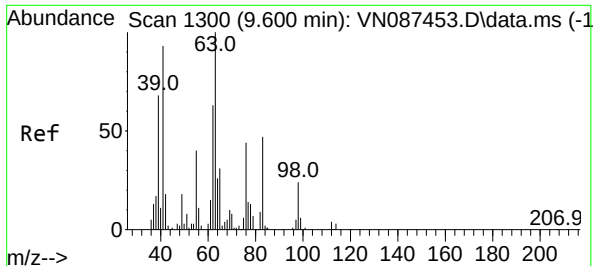


#38  
Methylcyclohexane  
Concen: 20.147 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 83 Resp: 139951  
Ion Ratio Lower Upper  
83 100  
55 82.4 41.2 123.6  
98 46.6 23.3 69.9



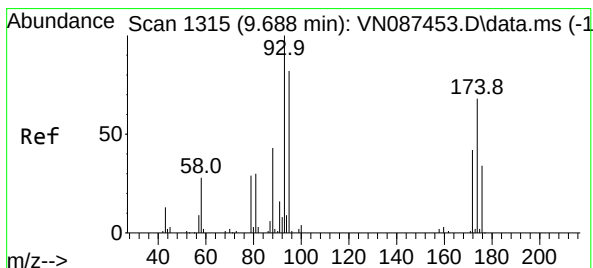
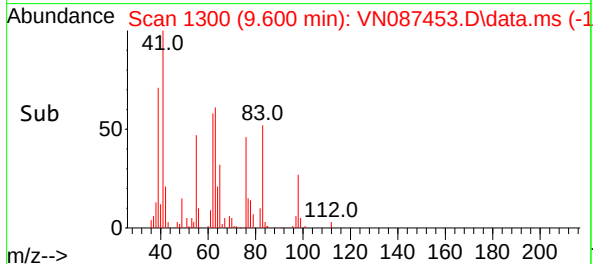
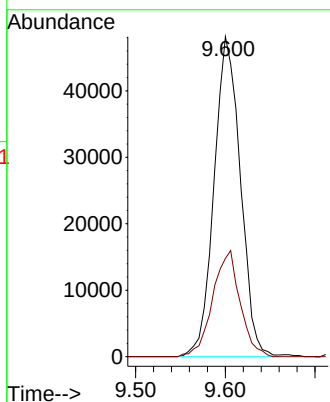
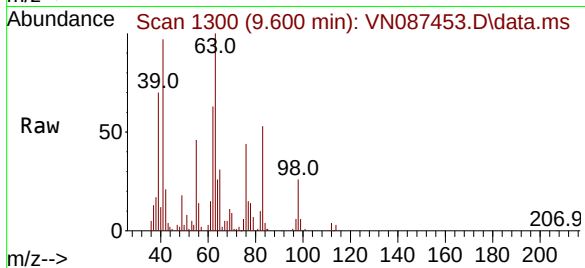




#39  
1,2-Dichloropropane  
Concen: 20.230 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

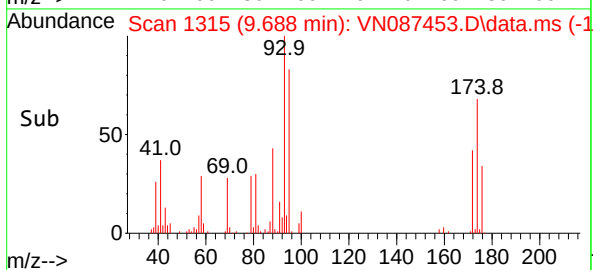
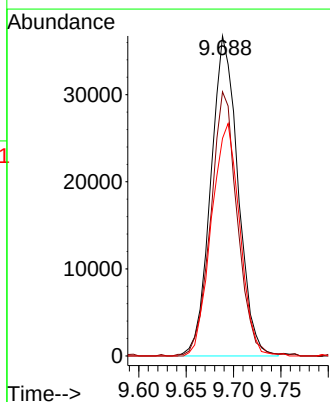
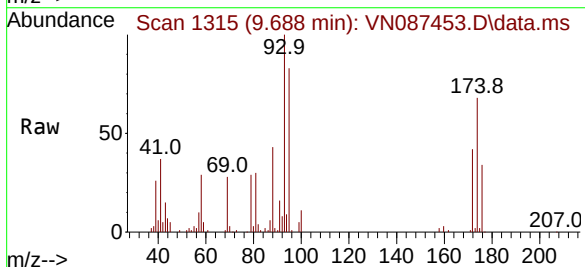
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

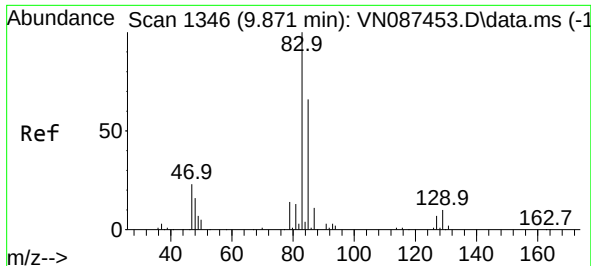
Tgt Ion: 63 Resp: 98038  
Ion Ratio Lower Upper  
63 100  
65 30.7 24.6 36.8



#40  
Dibromomethane  
Concen: 20.175 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 93 Resp: 73356  
Ion Ratio Lower Upper  
93 100  
95 80.8 0.0 161.6  
174 75.7 0.0 151.4

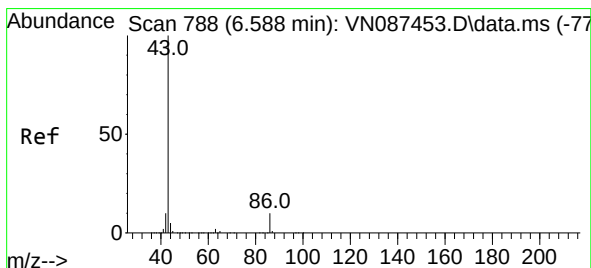
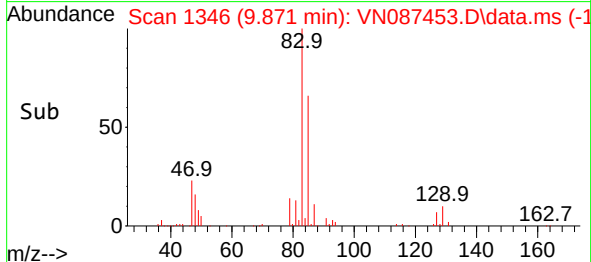
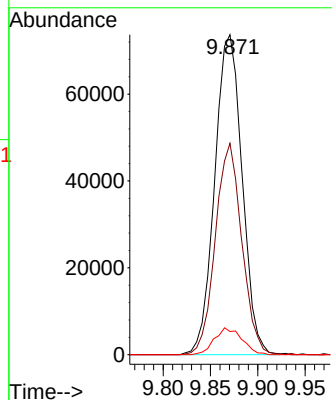
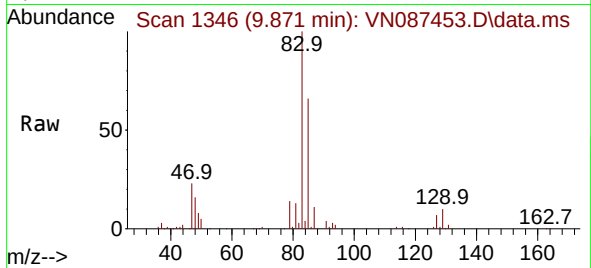




#41  
Bromodichloromethane  
Concen: 19.646 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

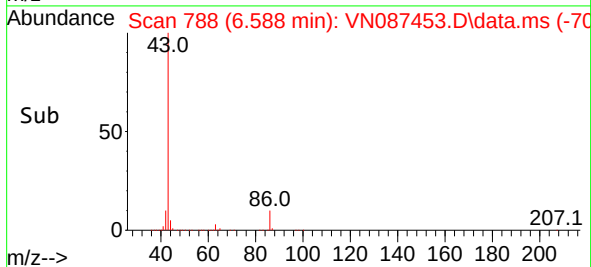
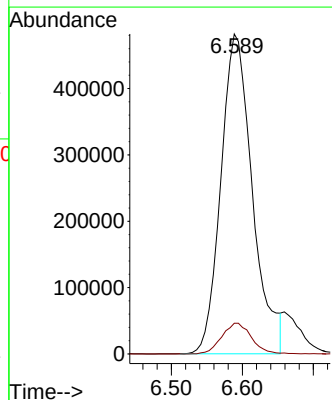
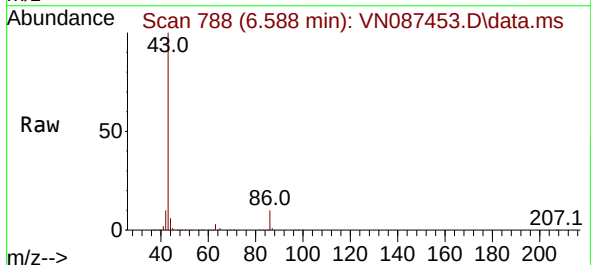
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

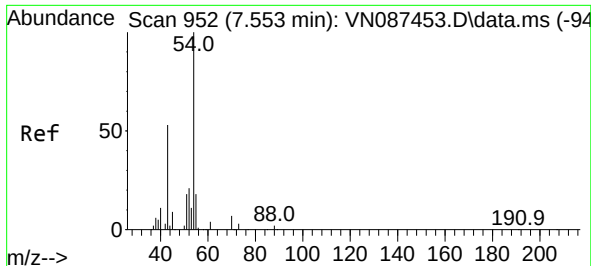
Tgt Ion: 83 Resp: 148435  
Ion Ratio Lower Upper  
83 100  
85 66.1 52.9 79.3  
127 7.2 5.8 8.6



#42  
Vinyl Acetate  
Concen: 102.044 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 1483194  
Ion Ratio Lower Upper  
43 100  
86 9.1 7.3 10.9

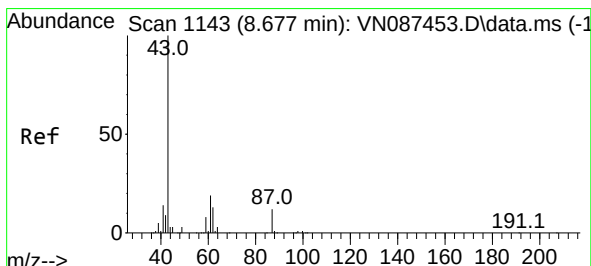
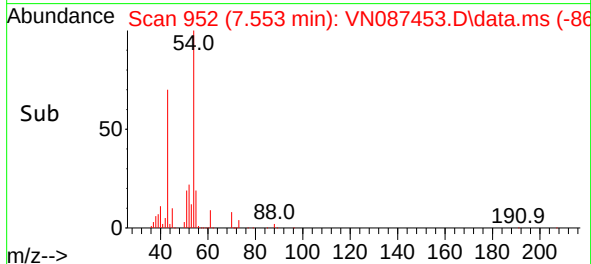
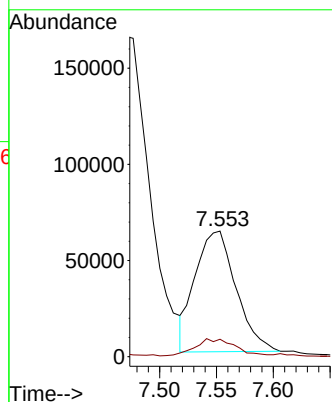
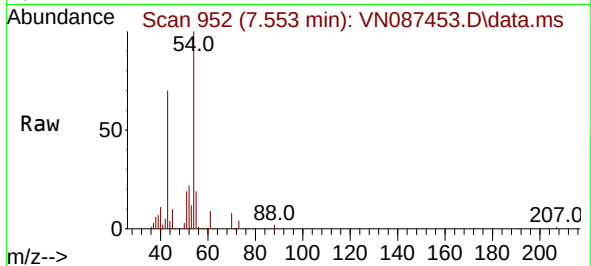




#43  
Ethyl Acetate  
Concen: 18.706 ug/l  
RT: 7.553 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

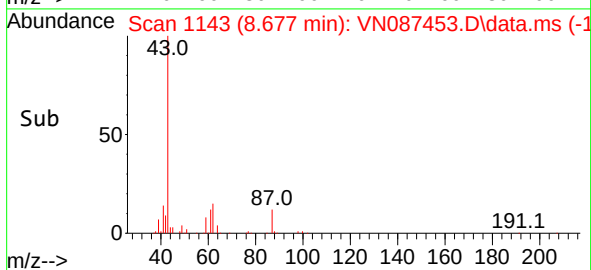
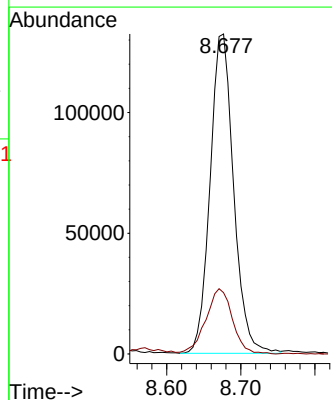
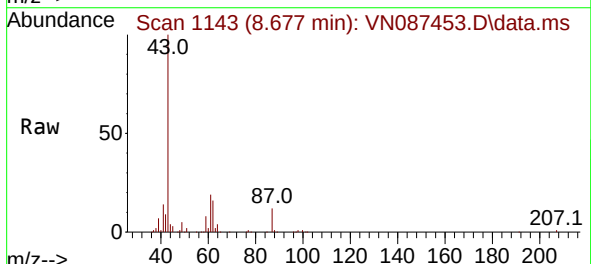
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

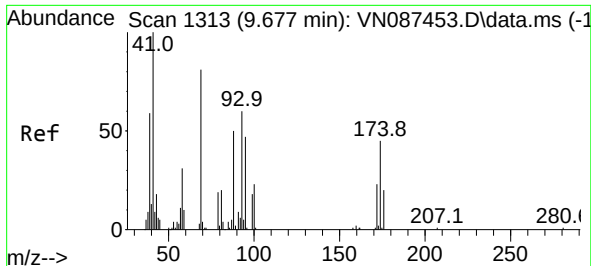
Tgt Ion: 43 Resp: 157155  
Ion Ratio Lower Upper  
43 100  
45 15.1 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 20.169 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 291509  
Ion Ratio Lower Upper  
43 100  
61 23.3 18.6 28.0

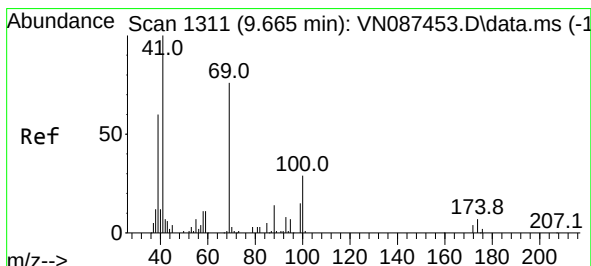
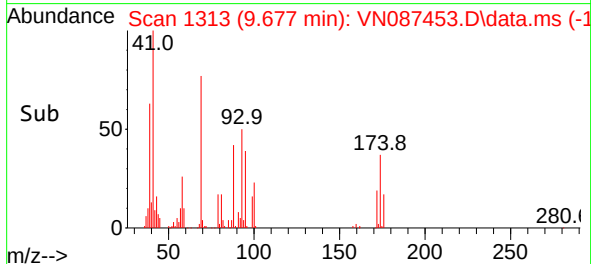
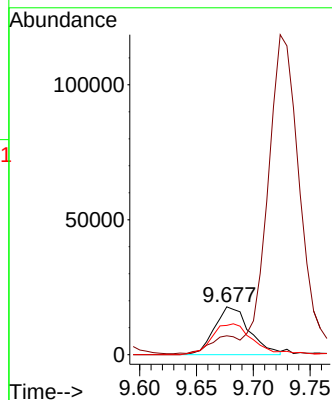
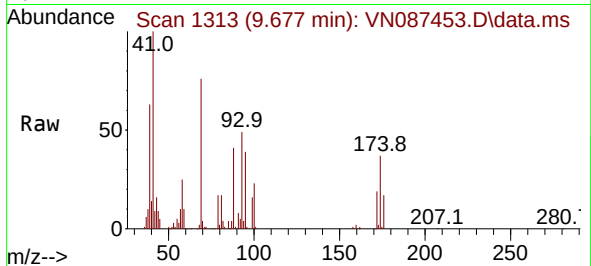




#45  
1,4-Dioxane  
Concen: 411.437 ug/l  
RT: 9.677 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

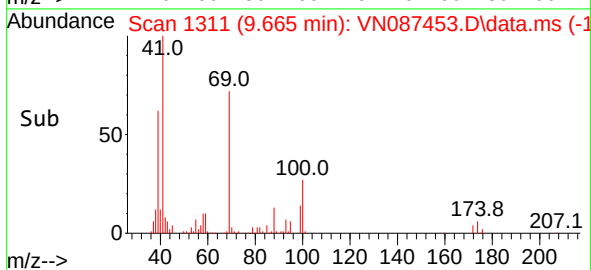
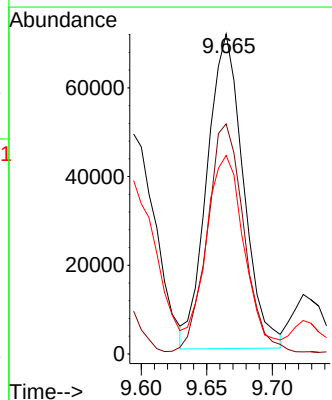
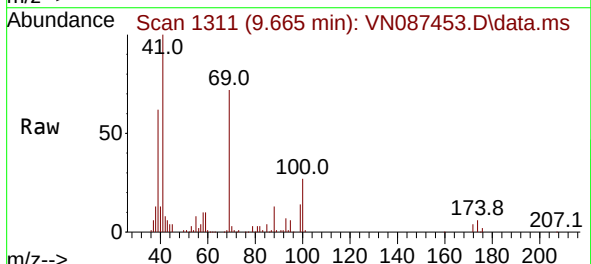
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

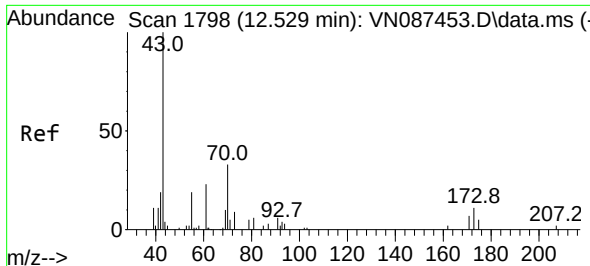
Tgt Ion: 88 Resp: 37910  
Ion Ratio Lower Upper  
88 100  
43 30.1 24.1 36.1  
58 71.5 57.2 85.8



#46  
Methyl methacrylate  
Concen: 20.024 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 41 Resp: 136612  
Ion Ratio Lower Upper  
41 100  
69 74.3 37.1 111.5  
39 61.4 30.7 92.1

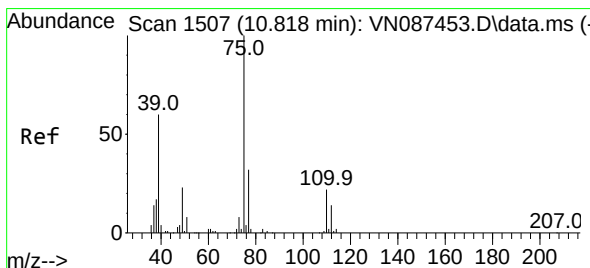
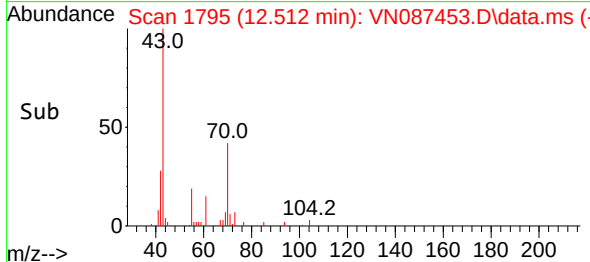
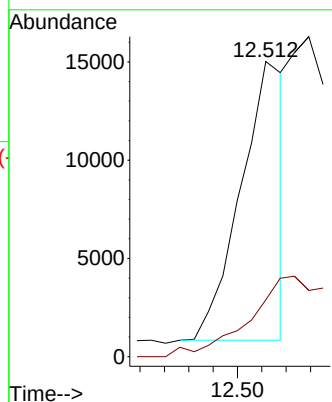
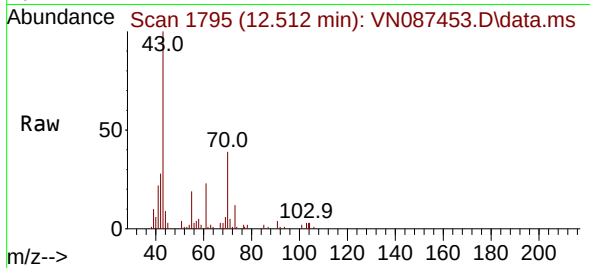




#47  
n-amy1 Acetate  
Concen: 2.415 ug/l  
RT: 12.512 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

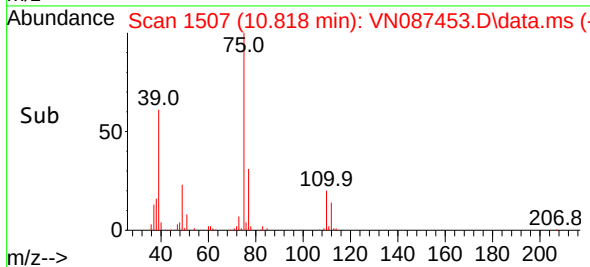
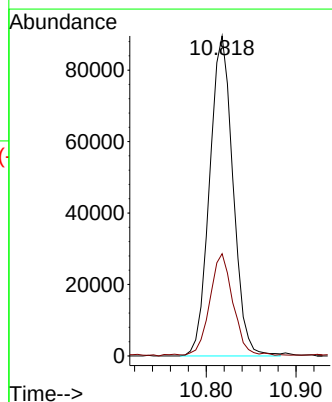
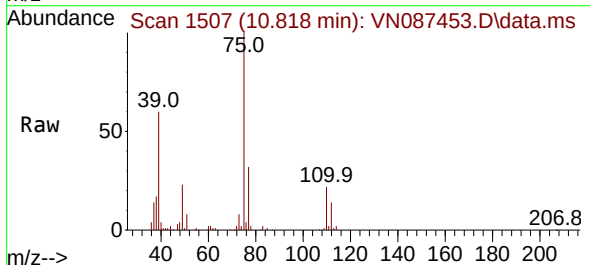
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

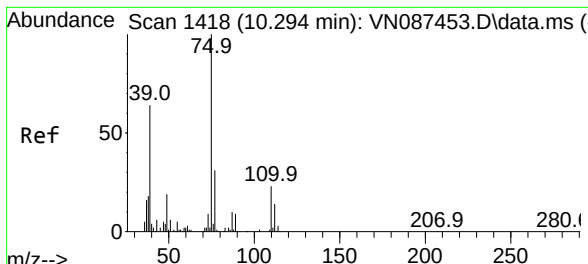
Tgt Ion: 43 Resp: 17553  
Ion Ratio Lower Upper  
43 100  
55 46.9 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 19.732 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 162191  
Ion Ratio Lower Upper  
75 100  
77 31.6 25.3 37.9

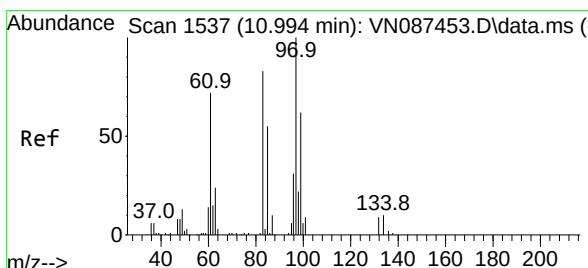
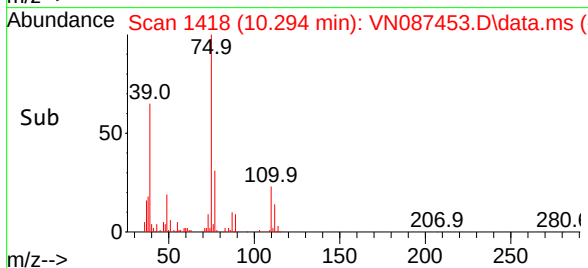
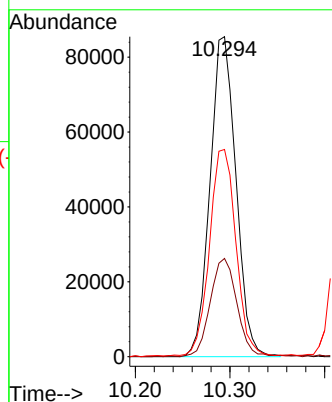
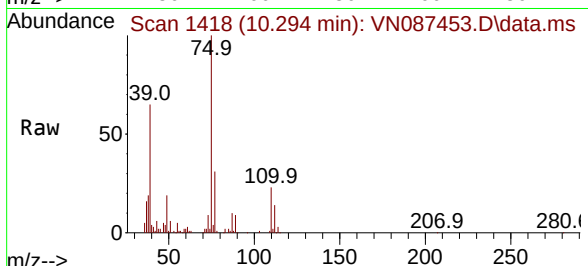




#49  
 cis-1,3-Dichloropropene  
 Concen: 19.641 ug/l  
 RT: 10.294 min Scan# 1418  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

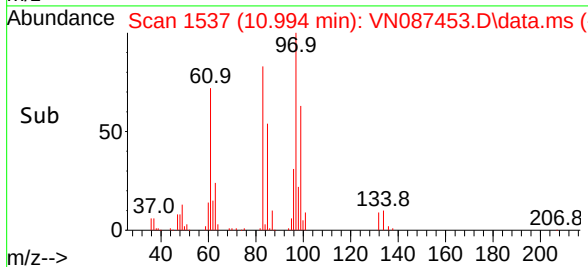
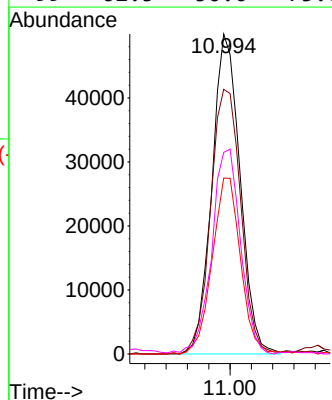
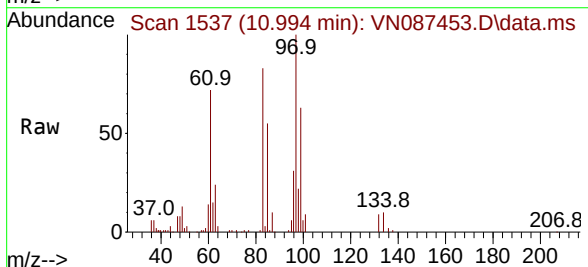
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

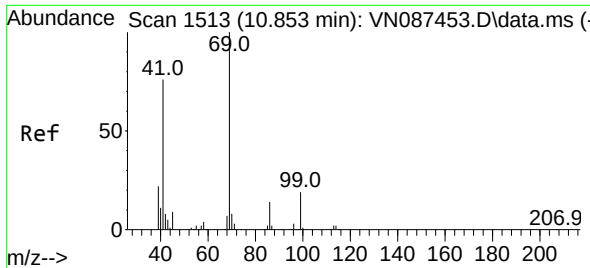
Tgt Ion: 75 Resp: 162479  
 Ion Ratio Lower Upper  
 75 100  
 77 30.7 24.6 36.8  
 39 64.4 51.5 77.3



#50  
 1,1,2-Trichloroethane  
 Concen: 19.993 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion: 97 Resp: 91845  
 Ion Ratio Lower Upper  
 97 100  
 83 82.7 66.2 99.2  
 85 54.9 43.9 65.9  
 99 62.5 50.0 75.0

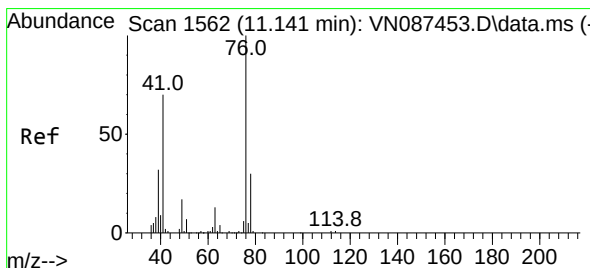
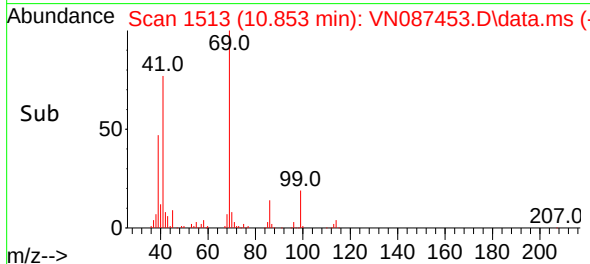
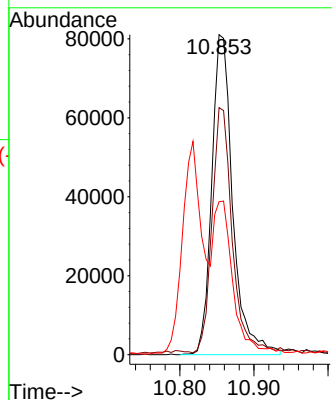
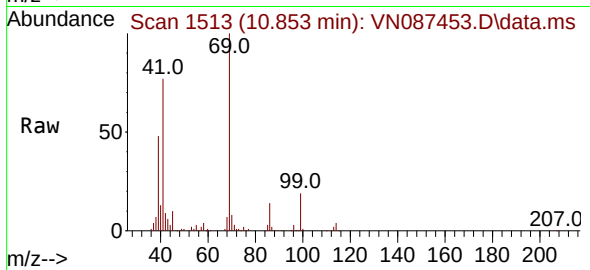




#51  
Ethyl methacrylate  
Concen: 19.738 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

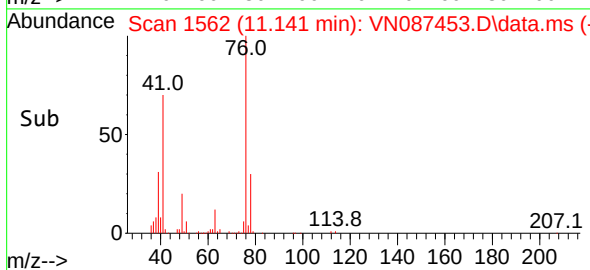
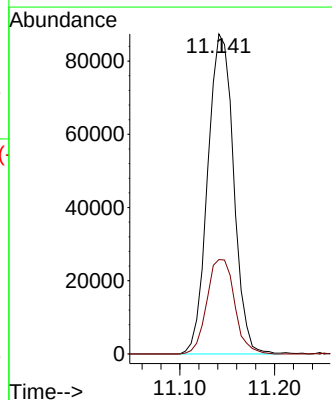
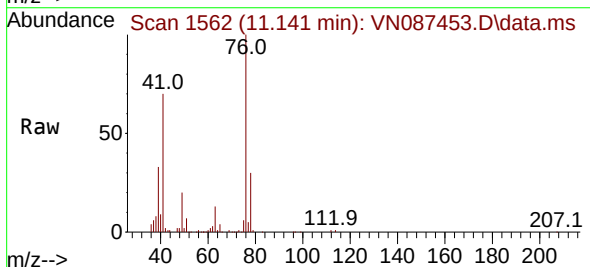
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MSVOA\_N  
ClientSampleId :  
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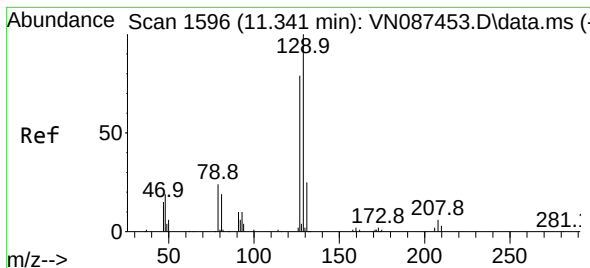
Tgt Ion: 69 Resp: 159690  
Ion Ratio Lower Upper  
69 100  
41 76.1 38.0 114.1  
39 46.3 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 20.044 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 165895  
Ion Ratio Lower Upper  
76 100  
78 31.5 0.0 63.0

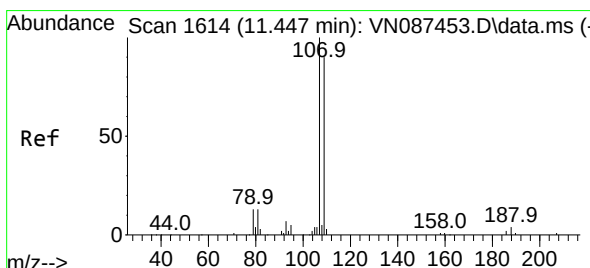
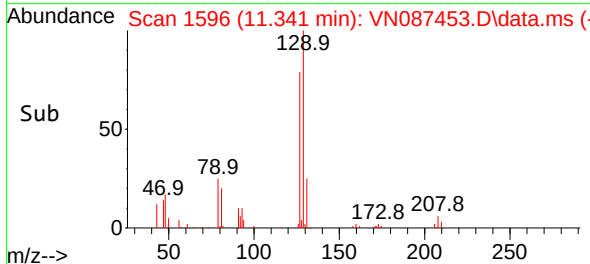
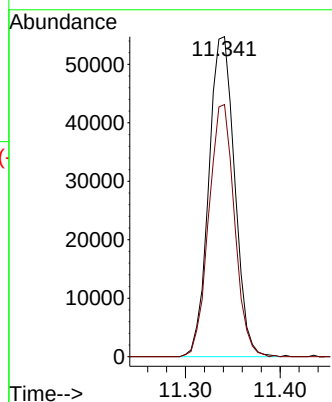
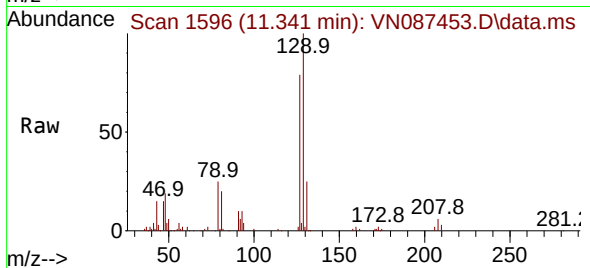




#53  
Dibromochloromethane  
Concen: 19.563 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

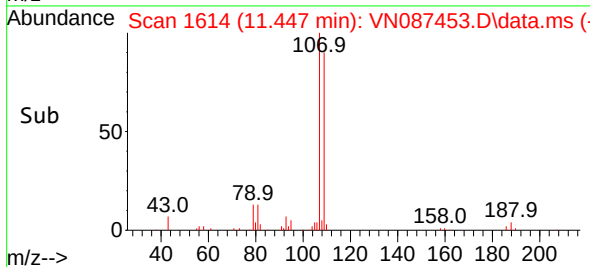
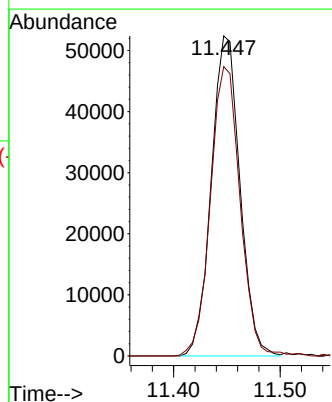
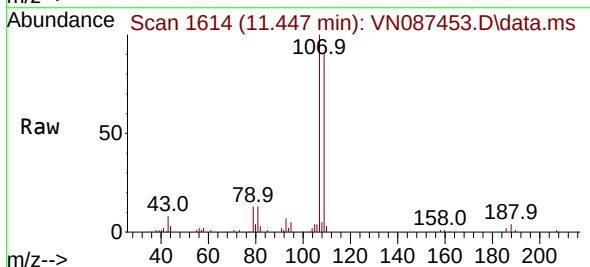
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:129 Resp: 103790  
Ion Ratio Lower Upper  
129 100  
127 78.2 39.1 117.3

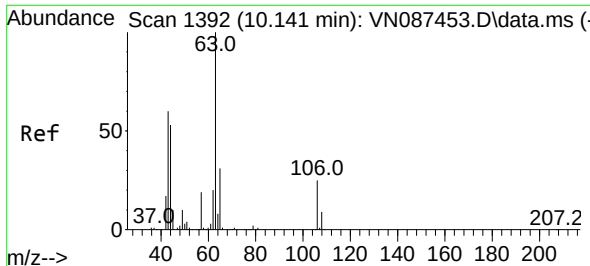


#54  
1,2-Dibromoethane  
Concen: 20.073 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:107 Resp: 97894  
Ion Ratio Lower Upper  
107 100  
109 92.8 74.2 111.4



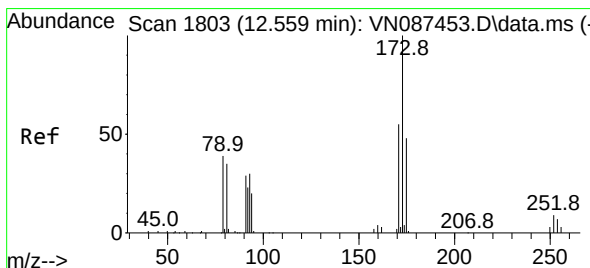
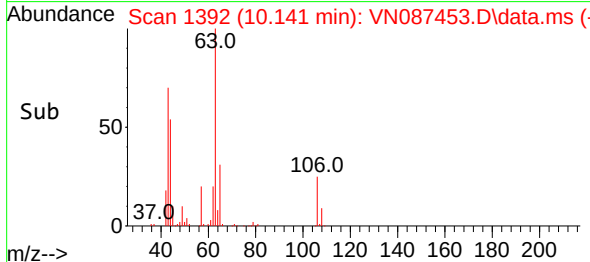
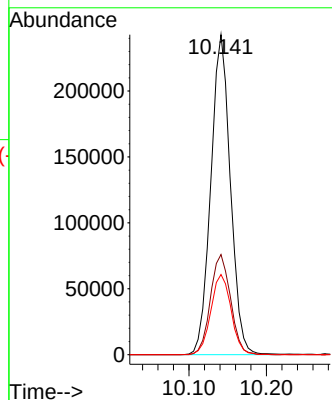
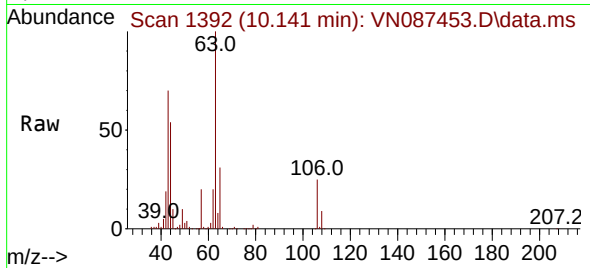




#55  
2-Chloroethyl vinyl ether  
Concen: 100.225 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

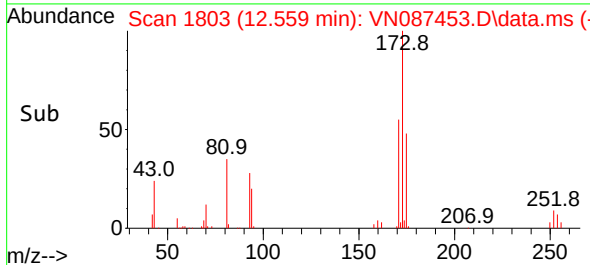
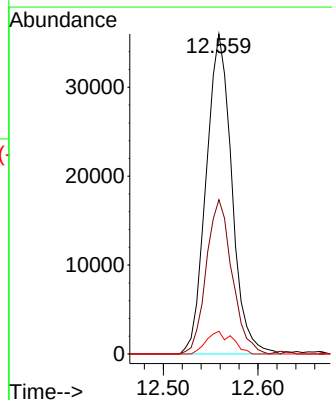
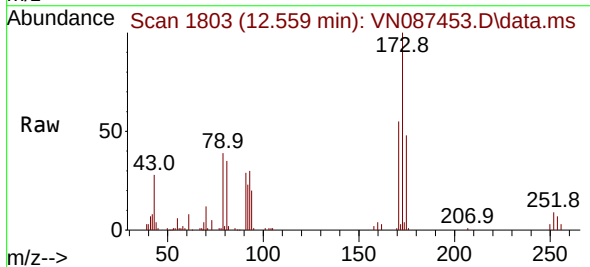
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ClientSampleId :  
VSTDICCC020

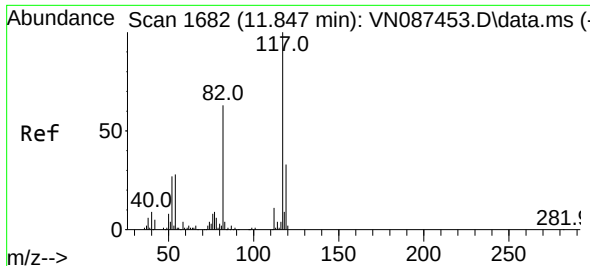
Tgt Ion: 63 Resp: 426876  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 25.9 20.7 31.1



#56  
Bromoform  
Concen: 19.250 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 173 Resp: 67550  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.8 58.2  
254 4.9 3.9 5.9

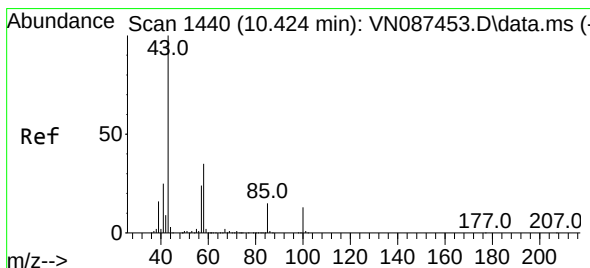
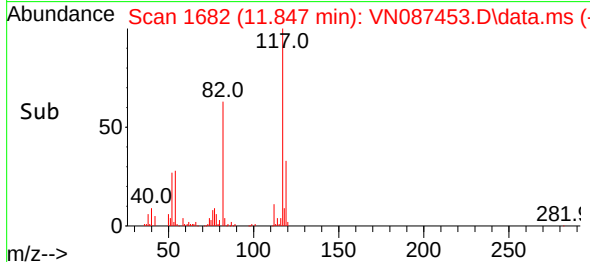
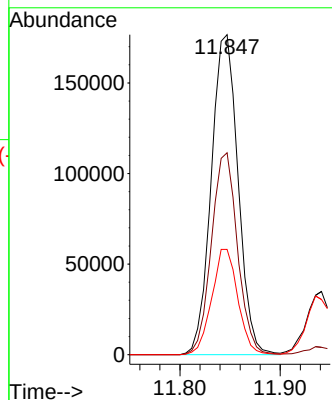
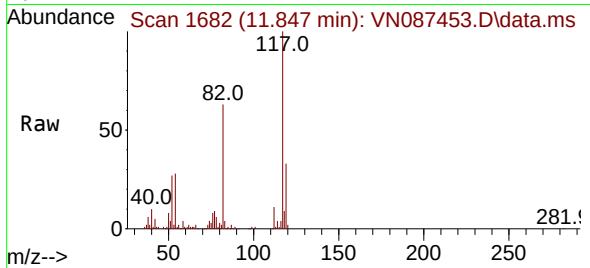




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

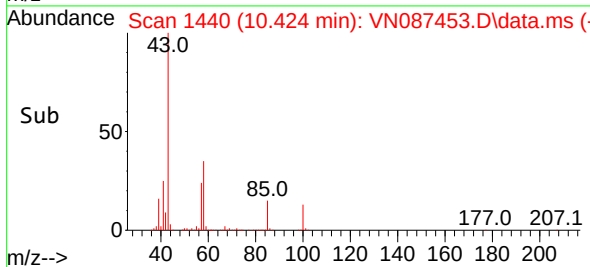
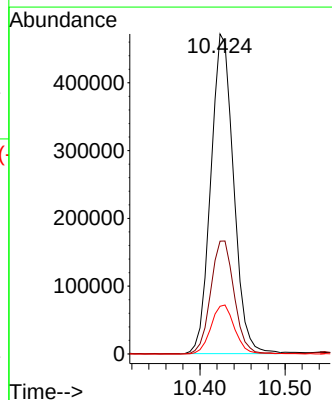
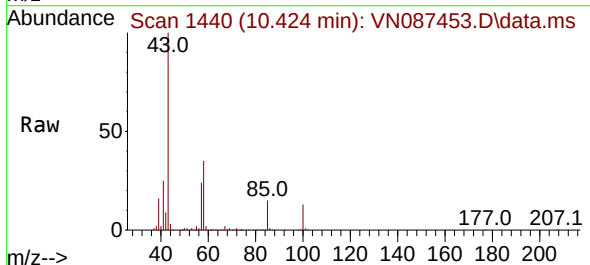
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

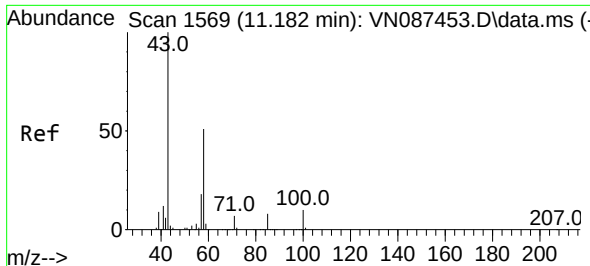
Tgt Ion:117 Resp: 327914  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.2 73.8  
119 32.1 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 103.897 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 876419  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.0 43.6  
85 15.9 12.7 19.1

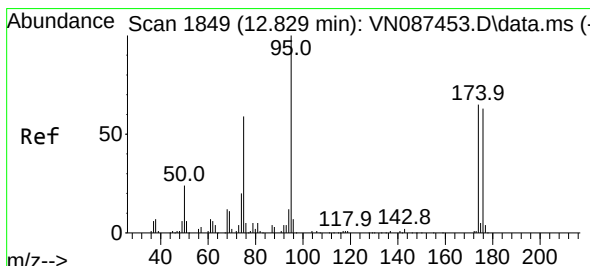
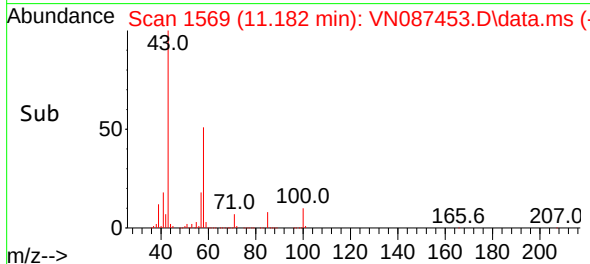
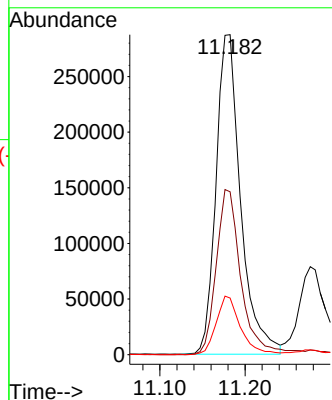
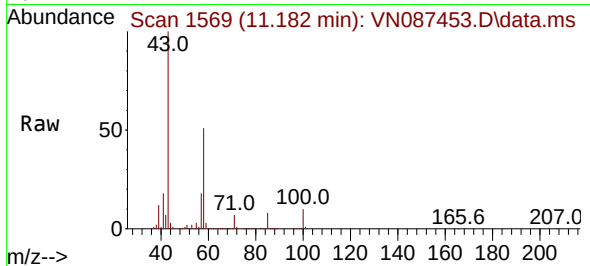




#59  
2-Hexanone  
Concen: 100.543 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

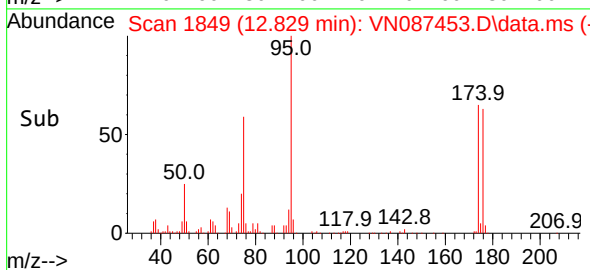
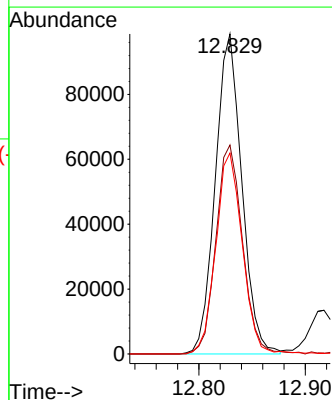
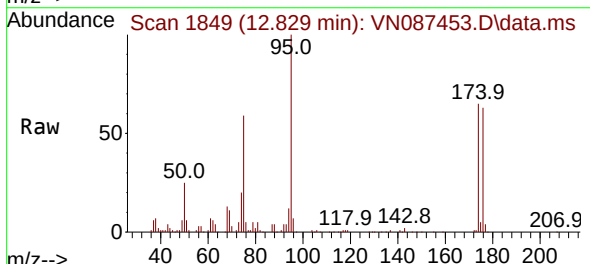
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

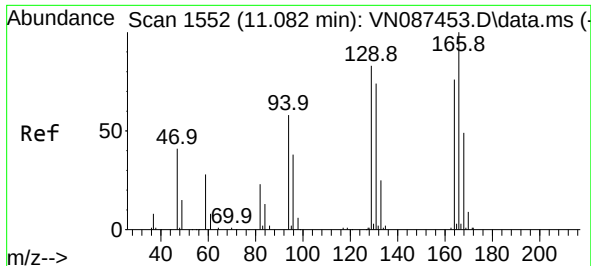
Tgt Ion: 43 Resp: 576264  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.2 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 30.201 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 95 Resp: 170429  
Ion Ratio Lower Upper  
95 100  
174 65.4 52.3 78.5  
176 62.3 49.8 74.8

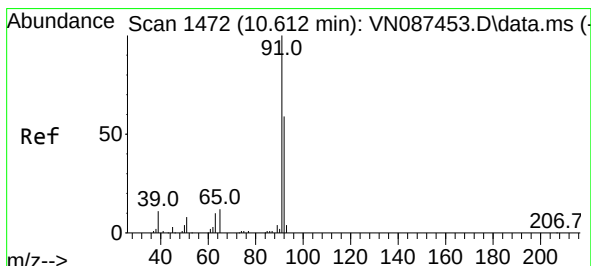
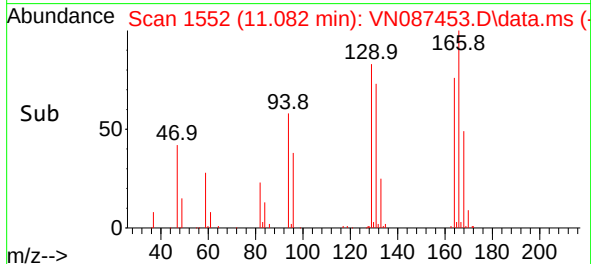
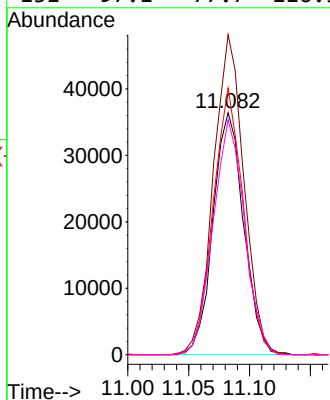
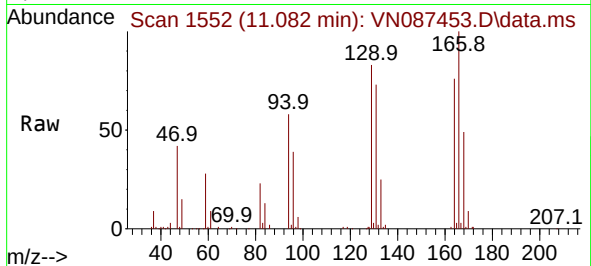




#61  
Tetrachloroethene  
Concen: 19.992 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

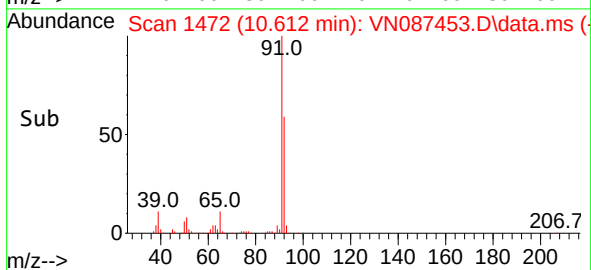
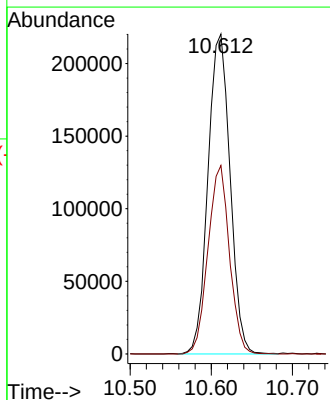
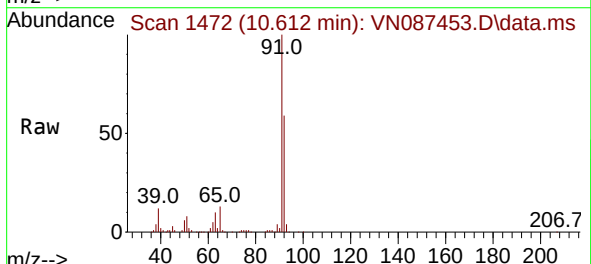
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MSVOA\_N  
ClientSampleId :  
VSTDICCC020

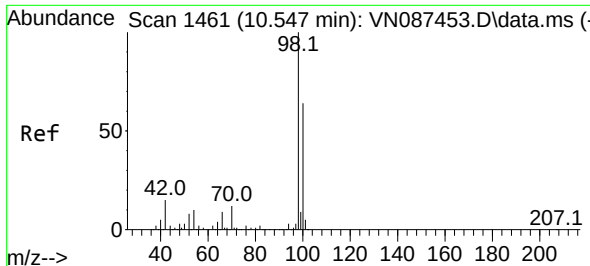
Tgt Ion:164 Resp: 63867  
Ion Ratio Lower Upper  
164 100  
166 131.7 105.4 158.0  
129 109.6 87.7 131.5  
131 97.1 77.7 116.5



#62  
Toluene  
Concen: 20.573 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 416382  
Ion Ratio Lower Upper  
91 100  
92 57.2 45.8 68.6

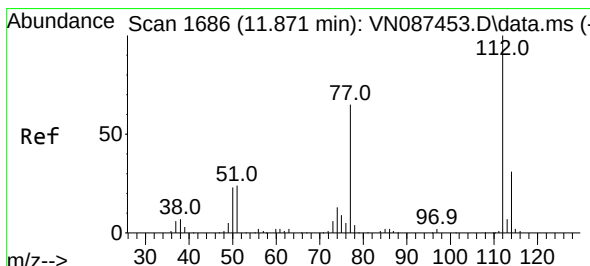
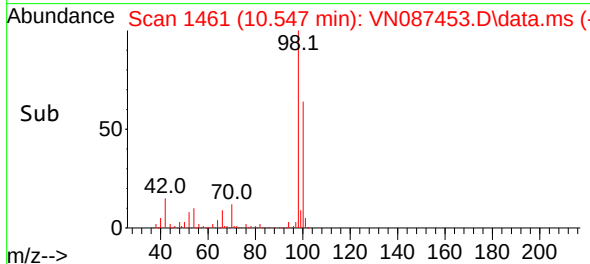
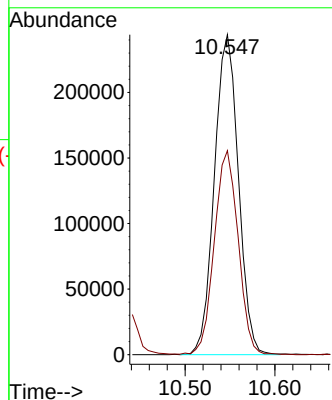
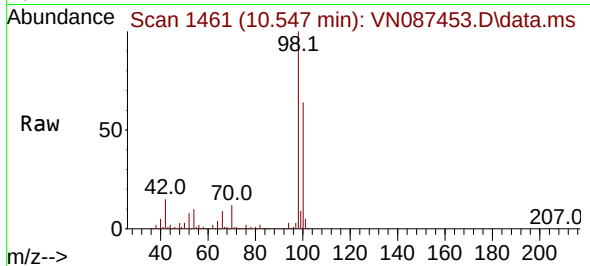




#63  
Toluene-d8  
Concen: 30.032 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

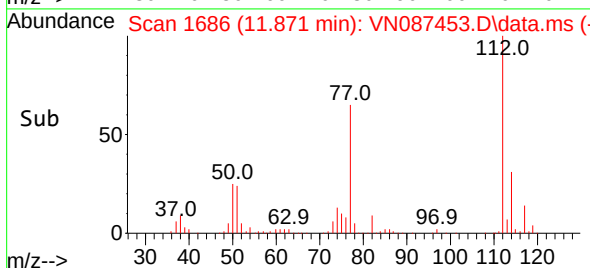
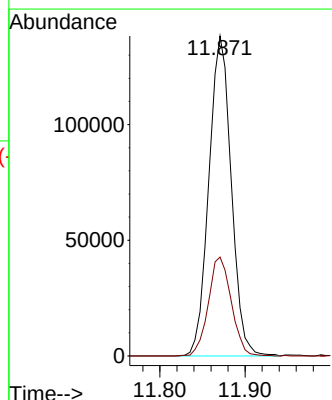
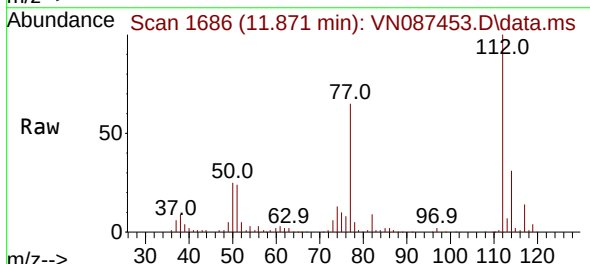
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

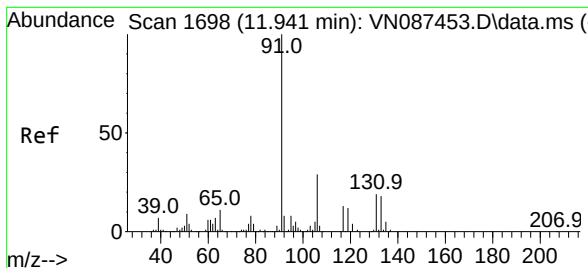
Tgt Ion: 98 Resp: 453121  
Ion Ratio Lower Upper  
98 100  
100 63.1 50.5 75.7



#64  
Chlorobenzene  
Concen: 20.321 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 112 Resp: 252716  
Ion Ratio Lower Upper  
112 100  
114 30.9 24.7 37.1

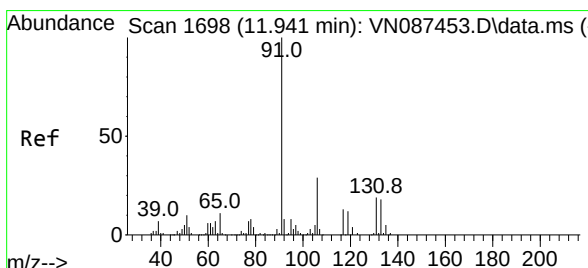
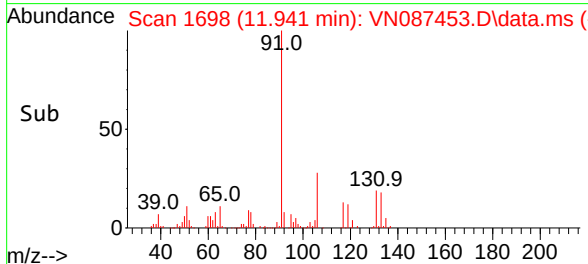
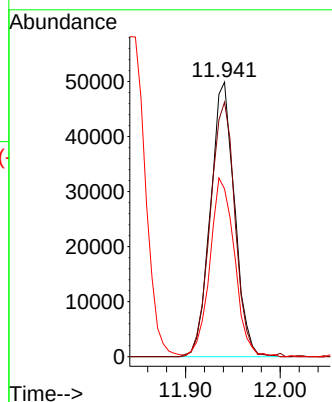
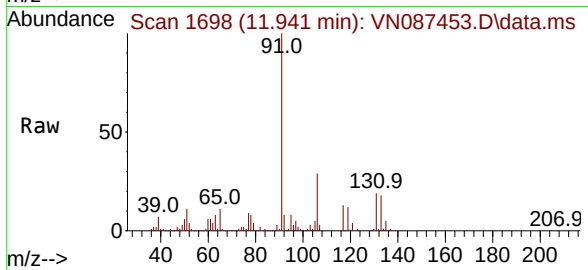




#65  
1,1,1,2-Tetrachloroethane  
Concen: 20.216 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

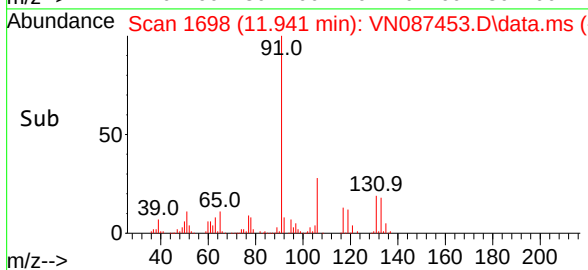
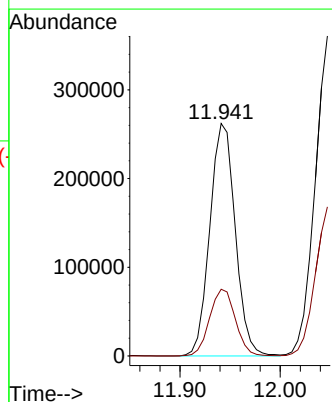
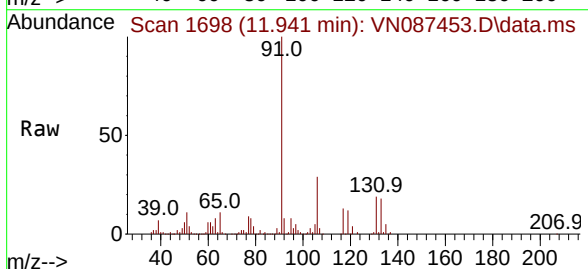
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

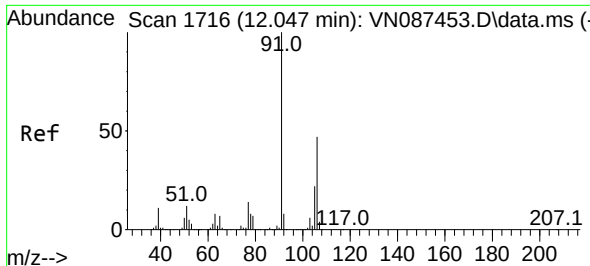
Tgt Ion:131 Resp: 88390  
Ion Ratio Lower Upper  
131 100  
133 94.9 0.0 189.8  
119 66.6 0.0 133.2



#66  
Ethyl Benzene  
Concen: 20.497 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 462372  
Ion Ratio Lower Upper  
91 100  
106 28.6 22.9 34.3

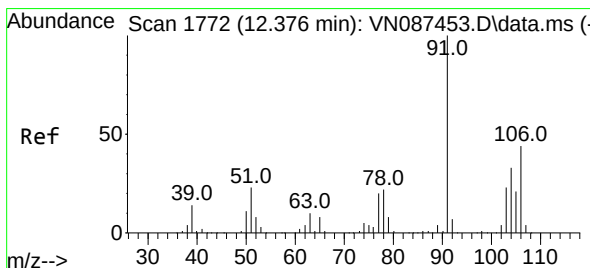
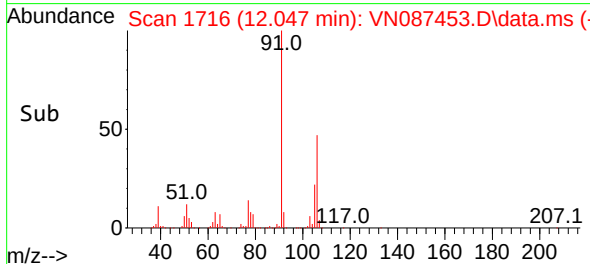
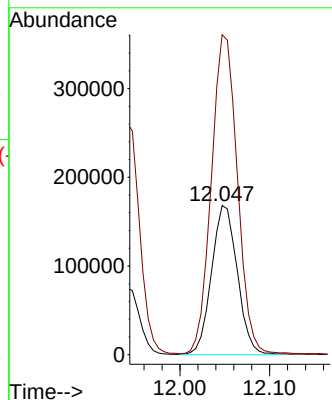
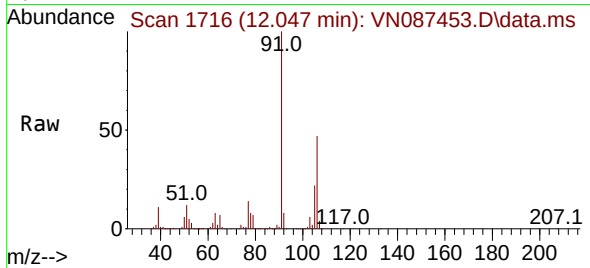




#67  
m/p-Xylenes  
Concen: 40.573 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

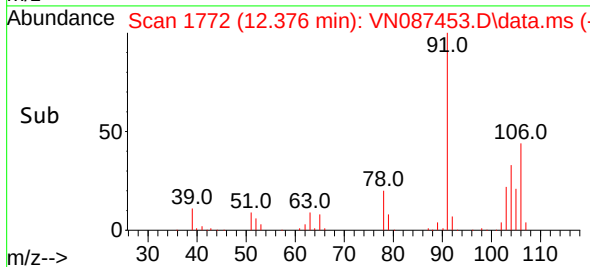
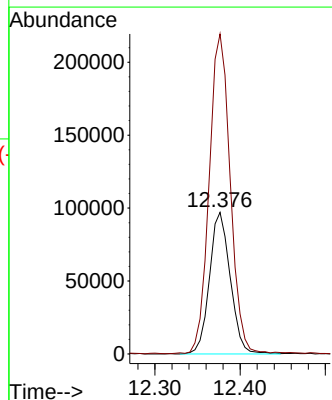
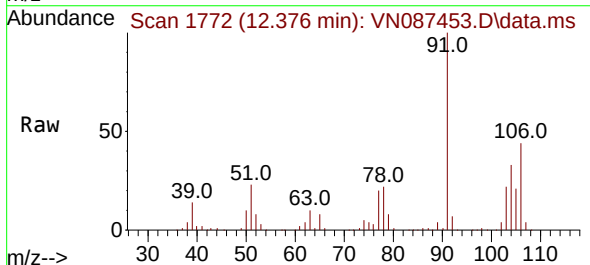
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

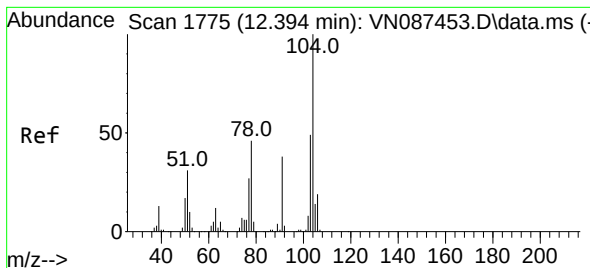
Tgt Ion:106 Resp: 335952  
Ion Ratio Lower Upper  
106 100  
91 217.7 174.2 261.2



#68  
o-Xylene  
Concen: 20.228 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:106 Resp: 164778  
Ion Ratio Lower Upper  
106 100  
91 229.0 114.5 343.5





#69

Styrene

Concen: 20.353 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

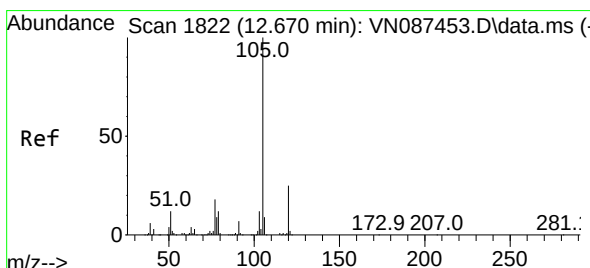
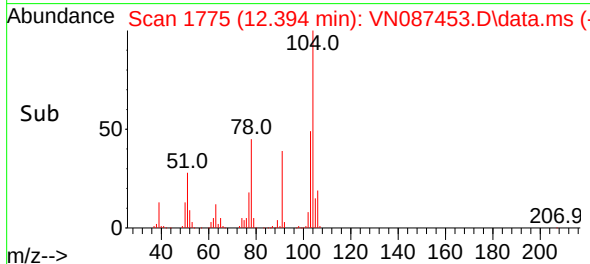
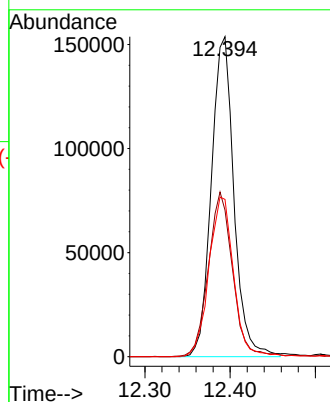
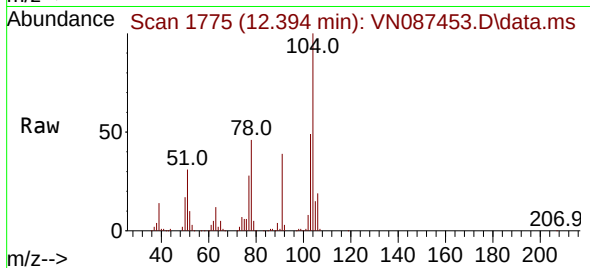
Tgt Ion:104 Resp: 283102

Ion Ratio Lower Upper

104 100

78 54.8 43.8 65.8

103 53.9 43.1 64.7



#70

Isopropylbenzene

Concen: 20.453 ug/l

RT: 12.670 min Scan# 1822

Delta R.T. 0.000 min

Lab File: VN087453.D

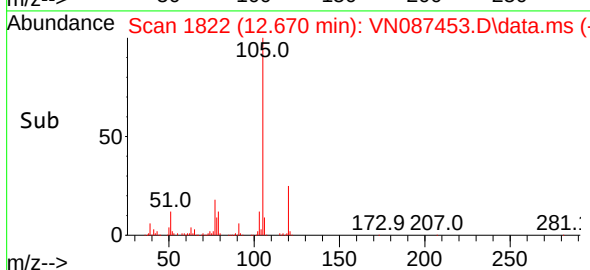
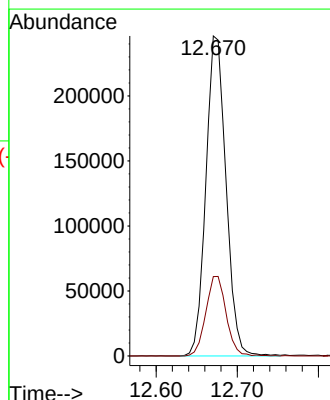
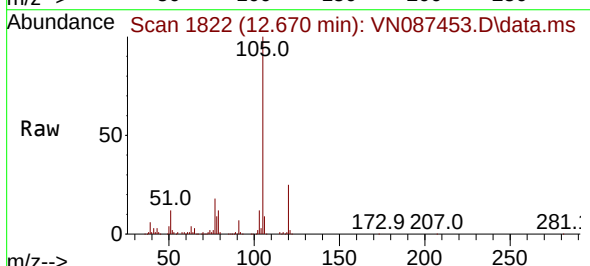
Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 423292

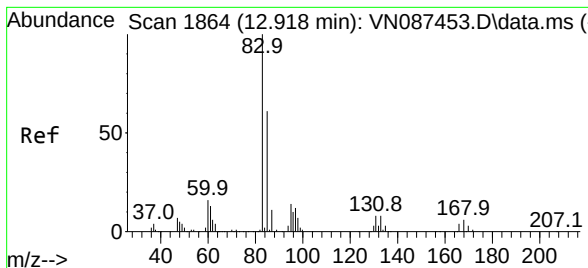
Ion Ratio Lower Upper

105 100

120 25.0 17.5 32.5



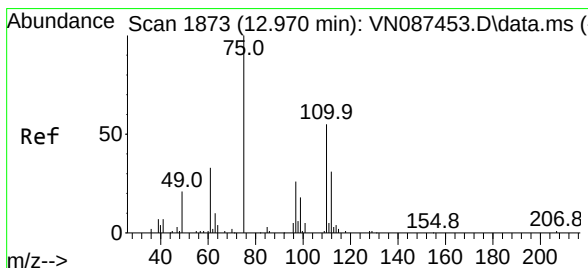
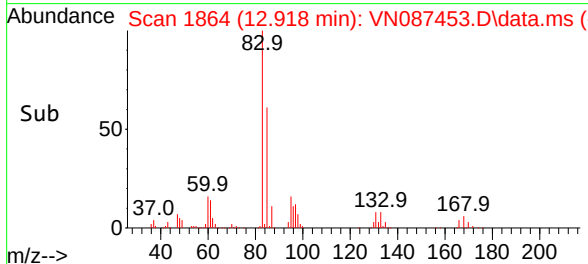
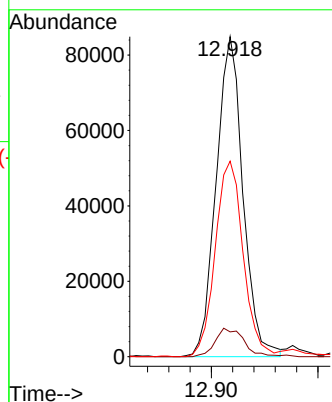
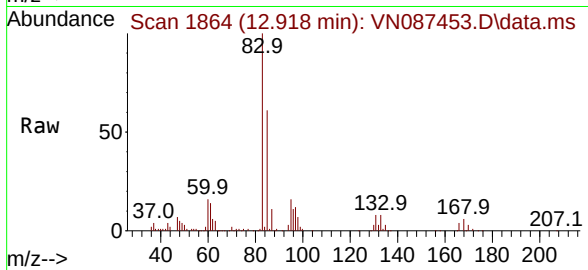




#71  
1,1,2,2-Tetrachloroethane  
Concen: 20.920 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

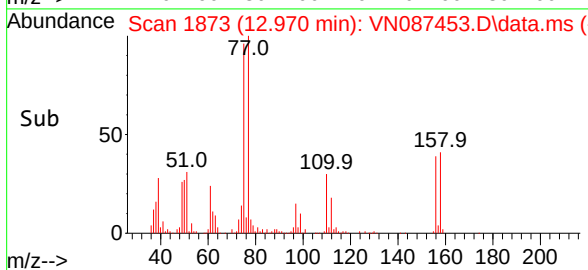
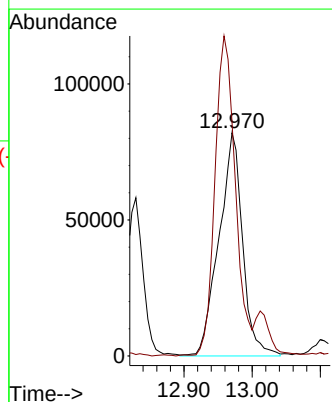
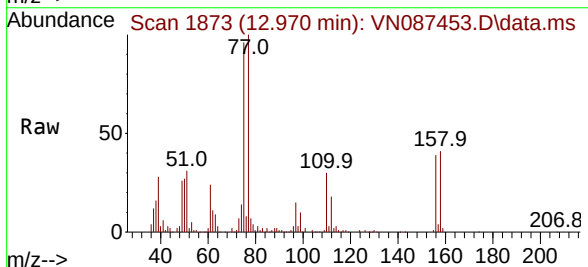
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MSVOA\_N  
ClientSampleId :  
VSTDICCC020

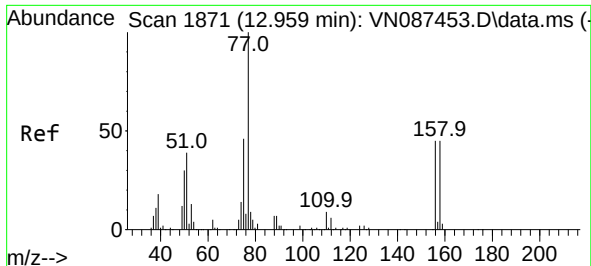
Tgt Ion: 83 Resp: 148347  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 63.4 31.7 95.1



#72  
1,2,3-Trichloropropane  
Concen: 27.161 ug/l  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 197975  
Ion Ratio Lower Upper  
75 100  
77 123.0 0.0 385.0

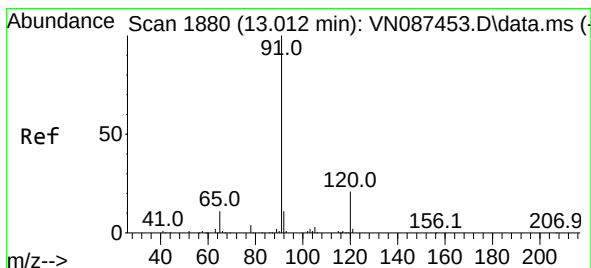
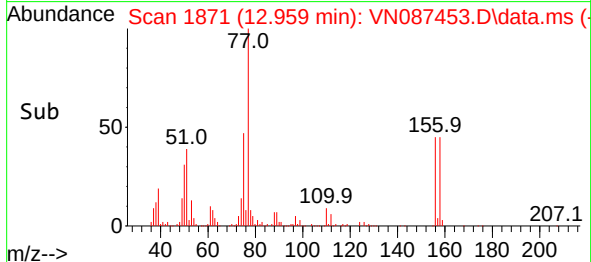
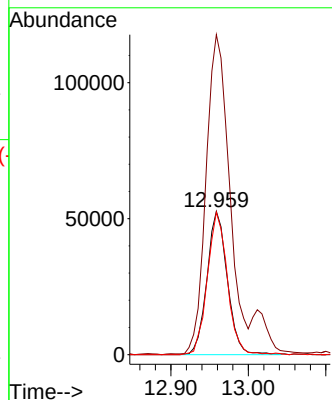
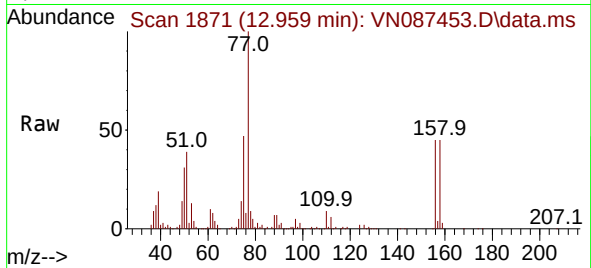




#73  
Bromobenzene  
Concen: 20.043 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

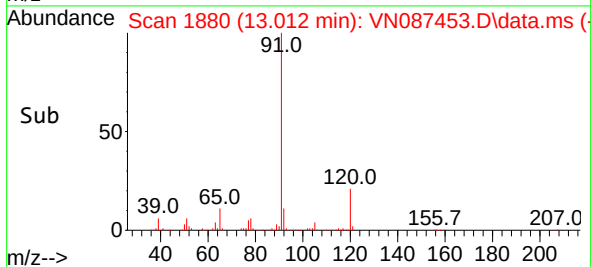
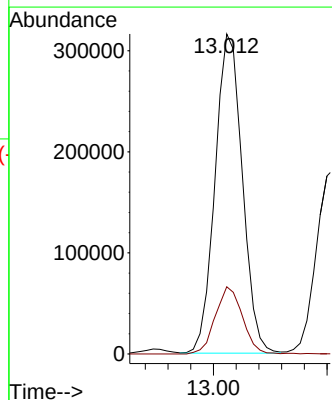
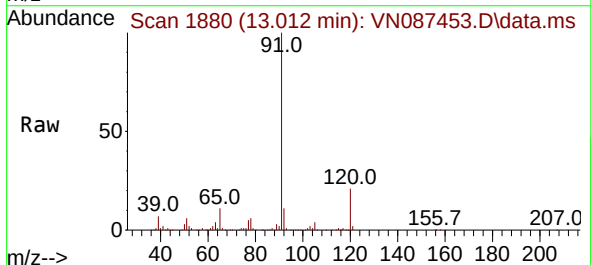
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

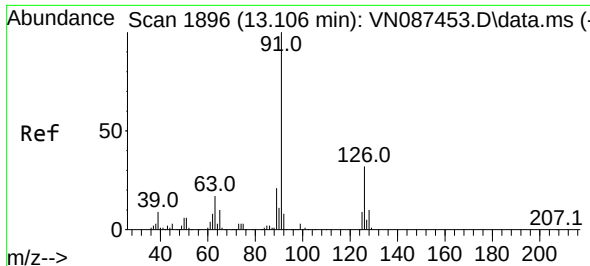
Tgt Ion:156 Resp: 96161  
Ion Ratio Lower Upper  
156 100  
77 253.3 0.0 506.6  
158 96.8 0.0 193.6



#74  
n-propylbenzene  
Concen: 20.382 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 526811  
Ion Ratio Lower Upper  
91 100  
120 20.9 0.0 41.8

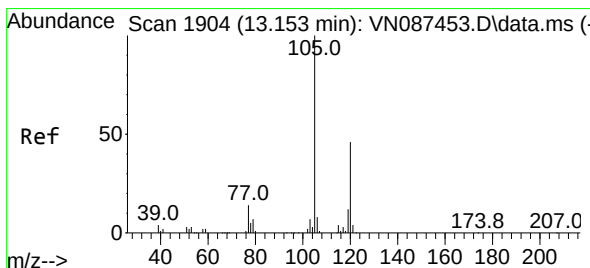
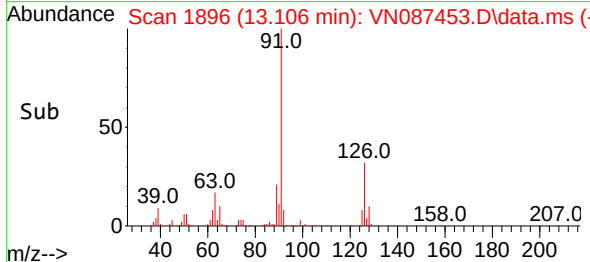
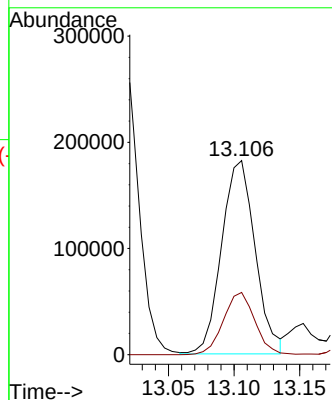
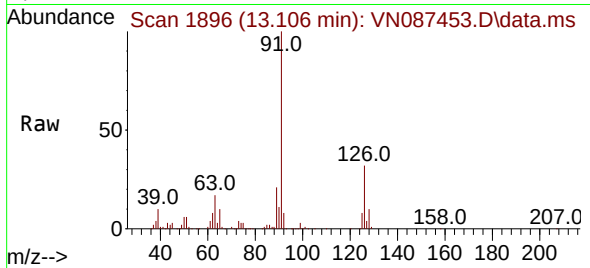




#75  
2-Chlorotoluene  
Concen: 20.409 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

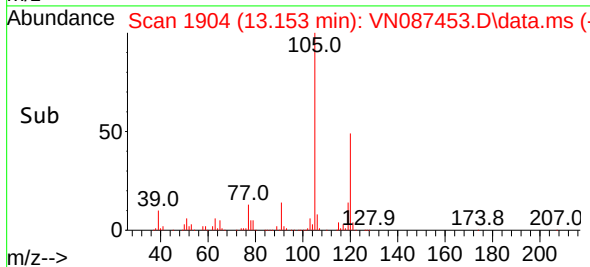
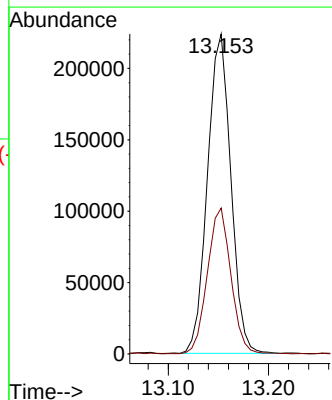
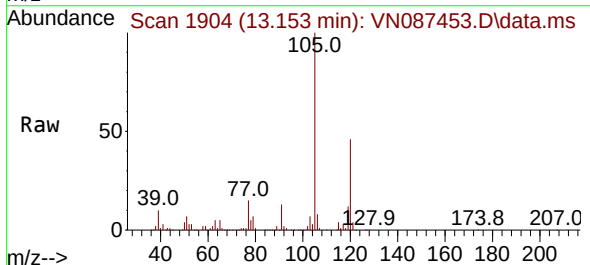
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

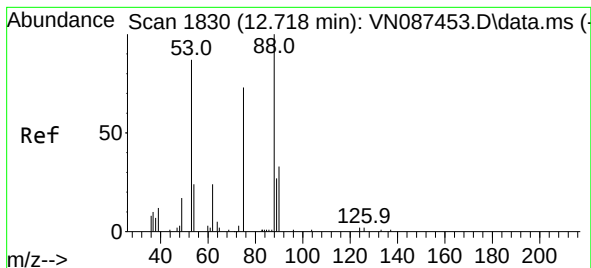
Tgt Ion: 91 Resp: 324478  
Ion Ratio Lower Upper  
91 100  
126 30.2 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 20.488 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 105 Resp: 363042  
Ion Ratio Lower Upper  
105 100  
120 45.6 0.0 91.2

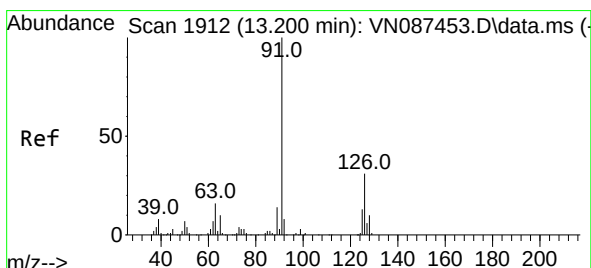
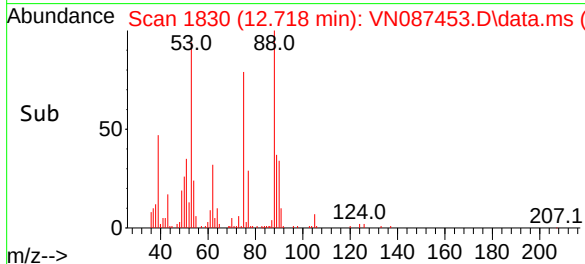
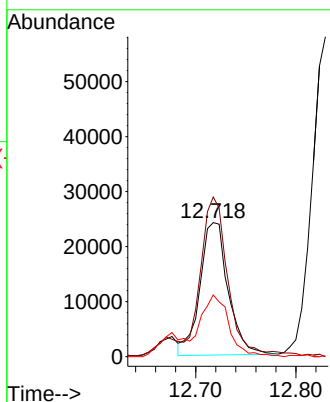
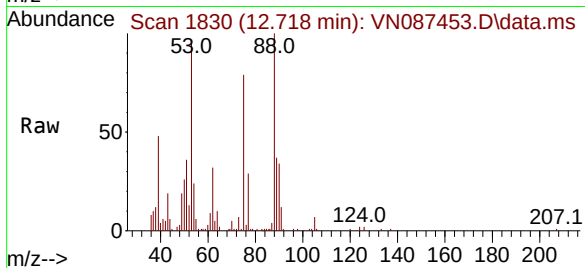




#77  
t-1,4-Dichloro-2-butene  
Concen: 18.843 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

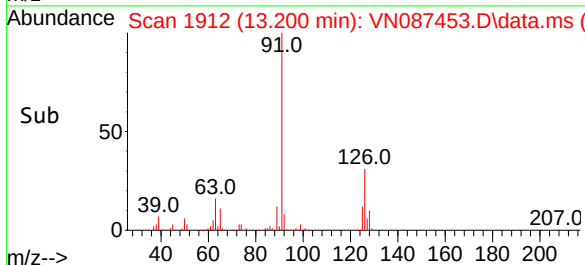
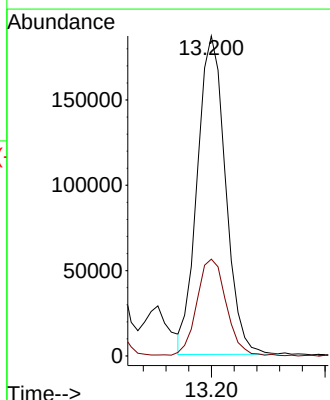
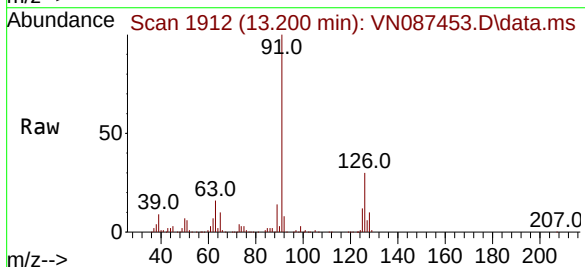
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

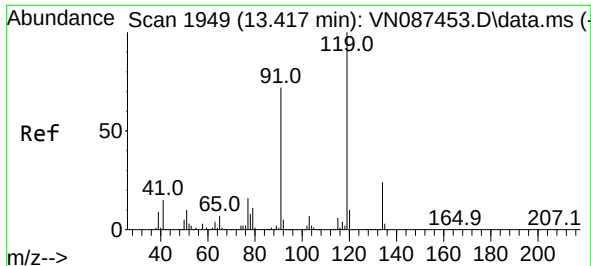
Tgt Ion: 75 Resp: 47119  
Ion Ratio Lower Upper  
75 100  
53 117.9 59.0 176.8  
89 44.3 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 20.005 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 322316  
Ion Ratio Lower Upper  
91 100  
126 31.6 0.0 63.2

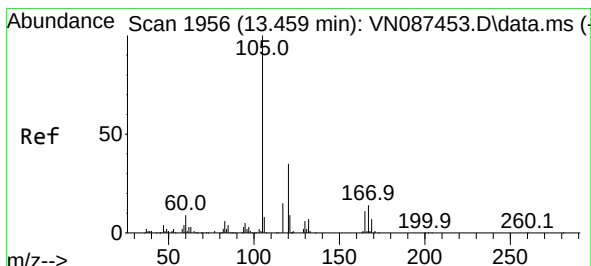
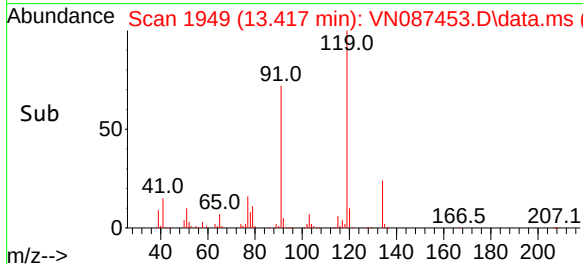
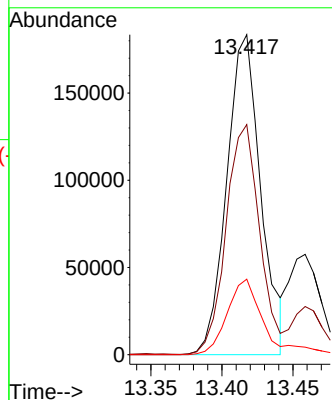
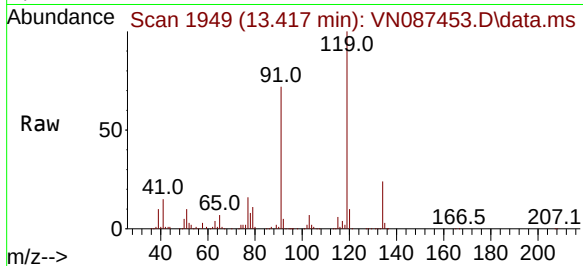




#79  
tert-butylbenzene  
Concen: 20.462 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

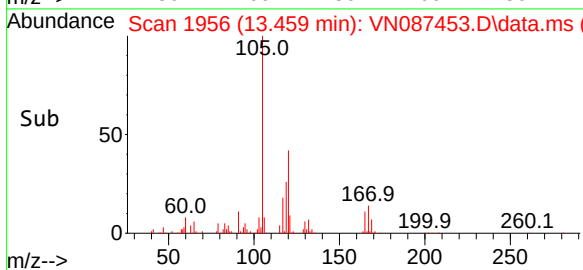
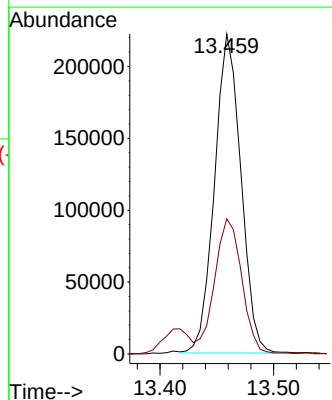
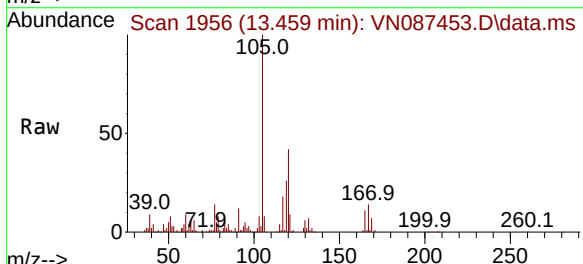
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

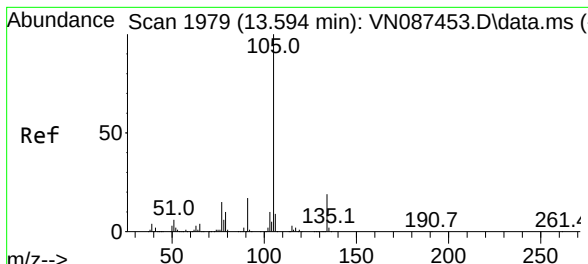
Tgt Ion:119 Resp: 305702  
Ion Ratio Lower Upper  
119 100  
91 70.8 0.0 141.6  
134 22.8 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 20.238 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 358349  
Ion Ratio Lower Upper  
105 100  
120 43.6 0.0 87.2

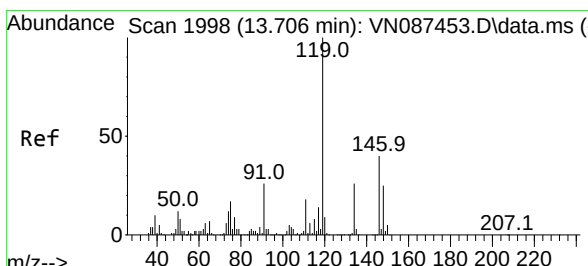
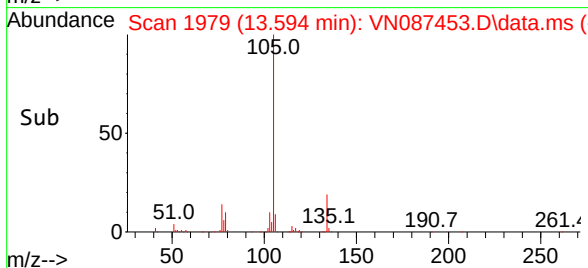
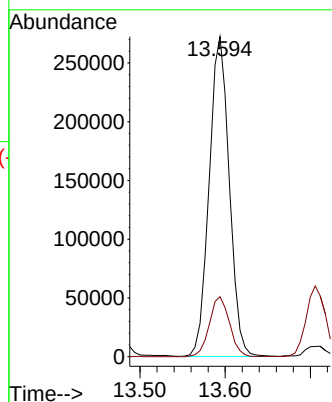
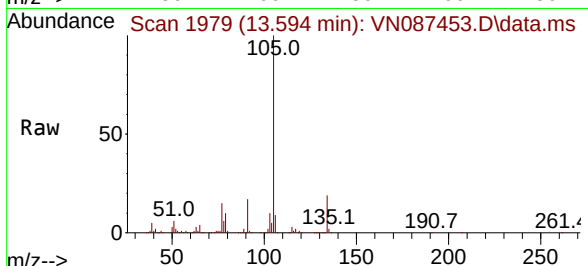




#81  
 sec-Butylbenzene  
 Concen: 20.577 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

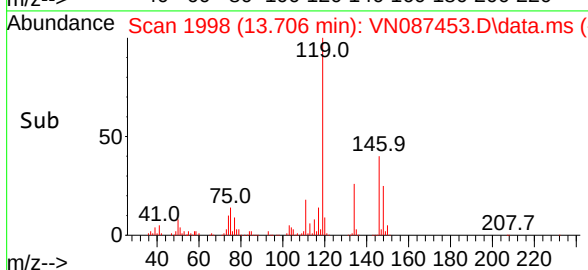
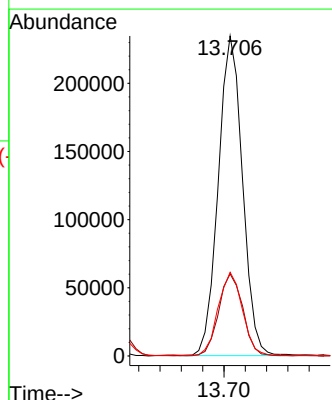
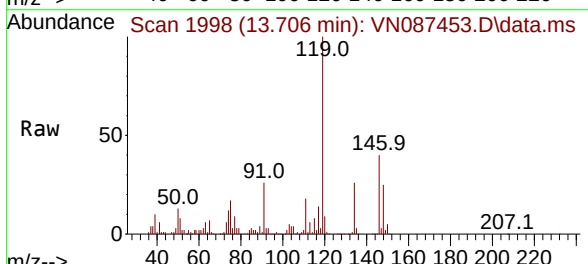
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

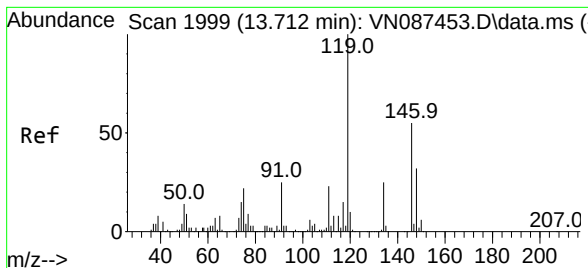
Tgt Ion:105 Resp: 447541  
 Ion Ratio Lower Upper  
 105 100  
 134 18.8 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 20.486 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion:119 Resp: 369955  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 0.0 51.4  
 91 26.0 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 20.412 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

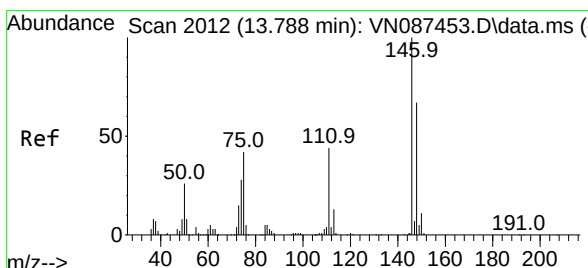
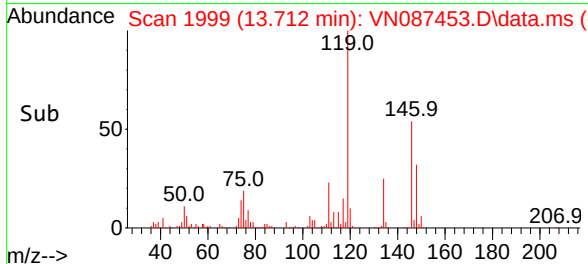
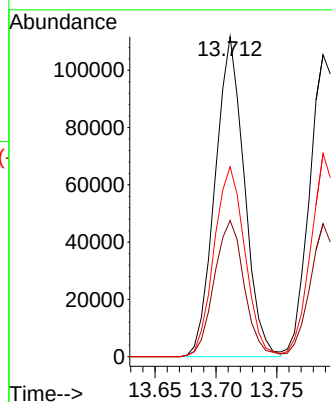
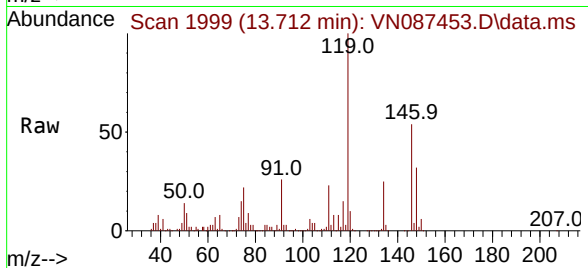
Tgt Ion:146 Resp: 186482

Ion Ratio Lower Upper

146 100

111 43.7 21.9 65.5

148 62.6 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 20.538 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

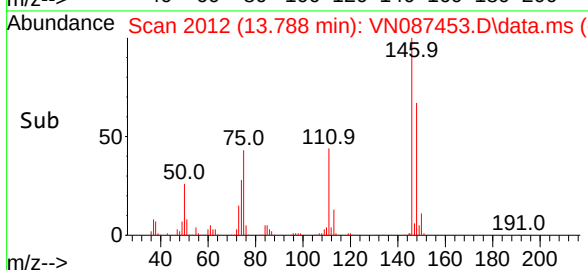
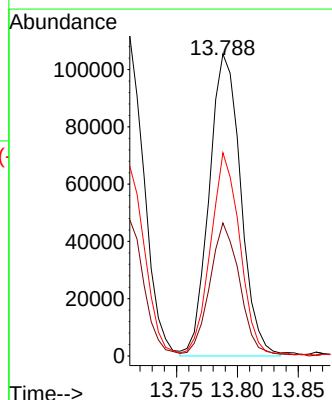
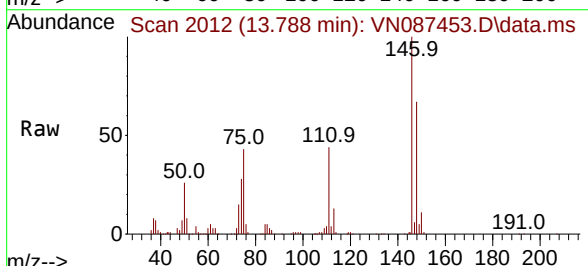
Tgt Ion:146 Resp: 190232

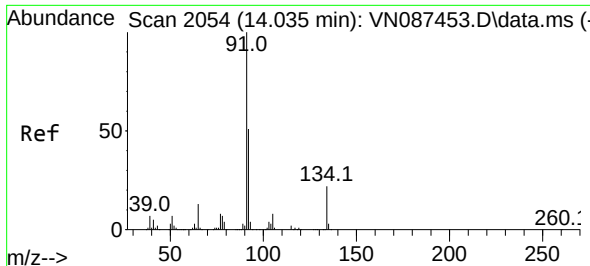
Ion Ratio Lower Upper

146 100

111 42.1 21.1 63.1

148 62.9 31.4 94.3

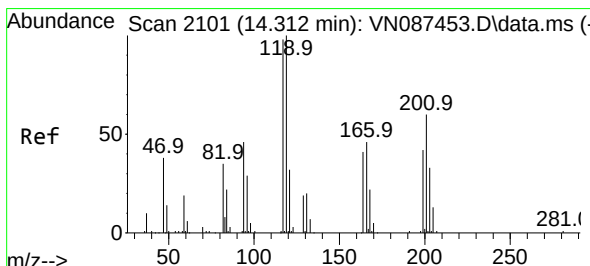
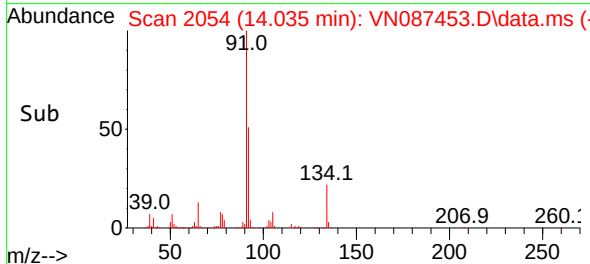
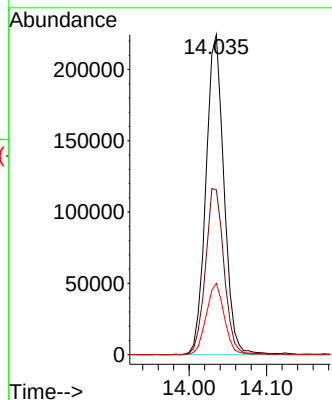
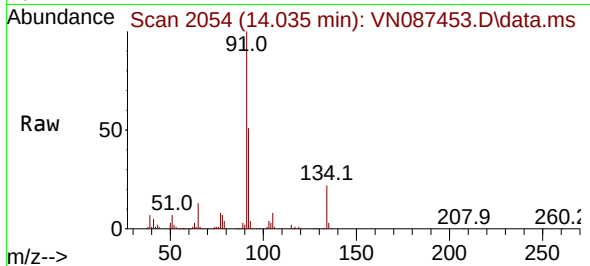




#85  
n-Butylbenzene  
Concen: 20.569 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

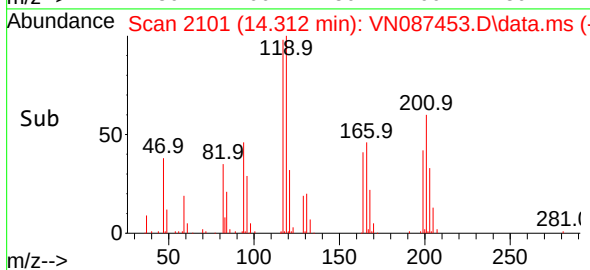
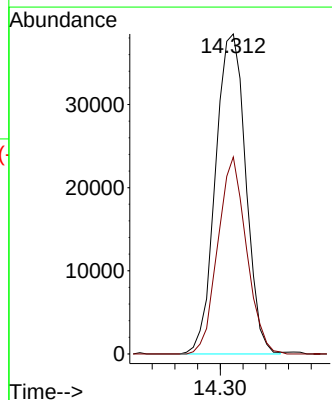
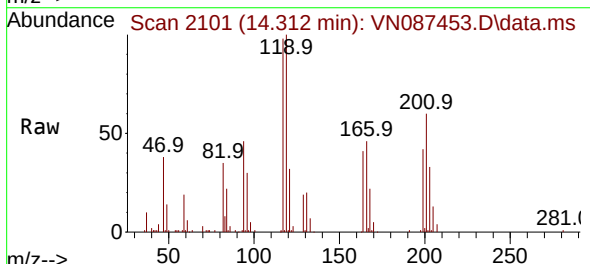
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 91 Resp: 363428  
Ion Ratio Lower Upper  
91 100  
92 53.3 0.0 106.6  
134 22.2 0.0 44.4

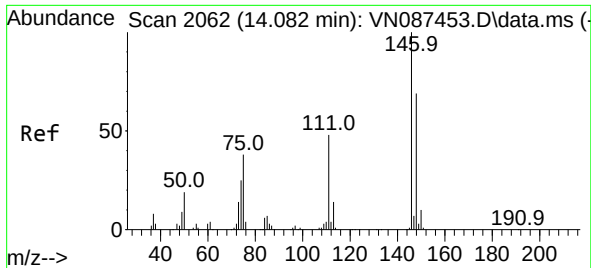


#86  
Hexachloroethane  
Concen: 20.189 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 117 Resp: 71198  
Ion Ratio Lower Upper  
117 100  
201 58.3 29.1 87.4



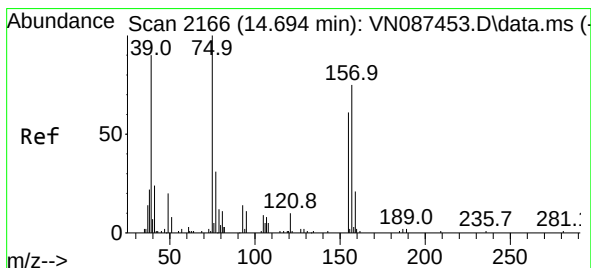
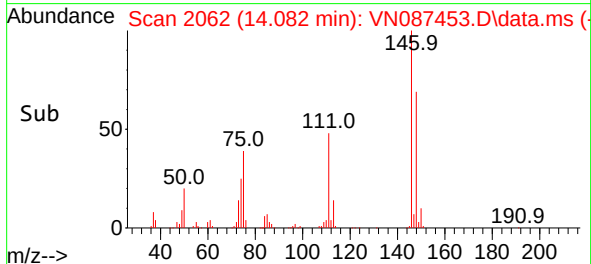
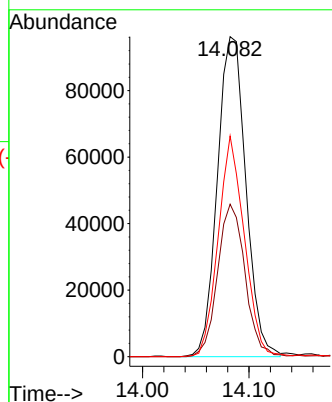
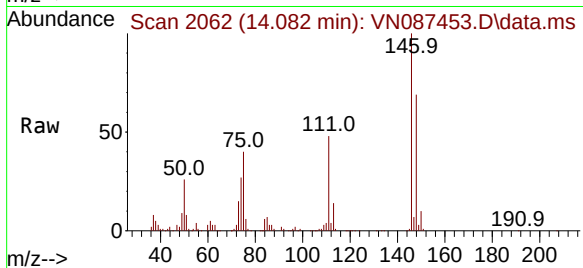




#87  
1,2-Dichlorobenzene  
Concen: 20.539 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

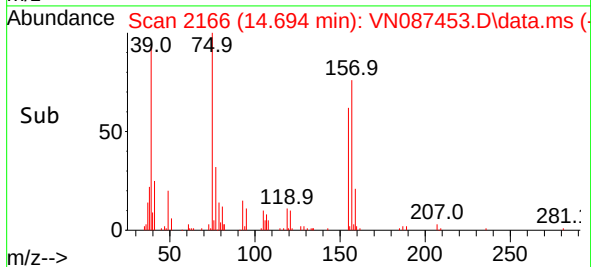
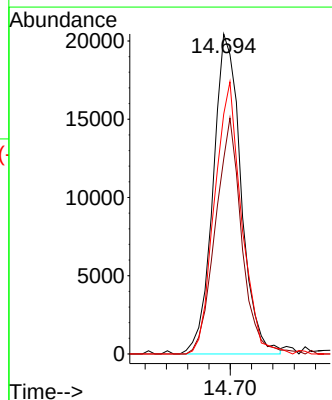
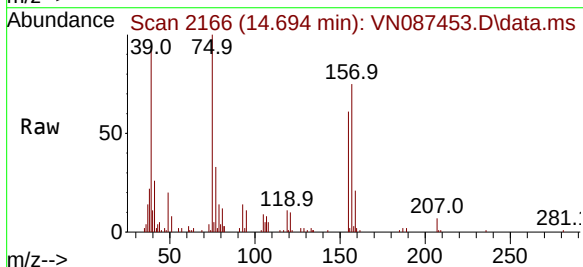
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

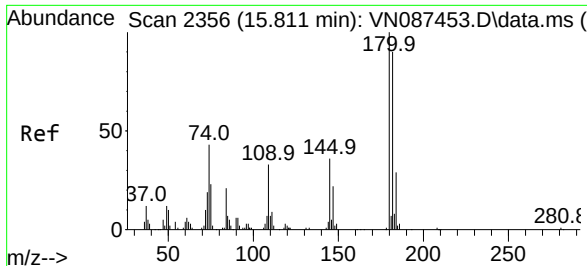
Tgt Ion:146 Resp: 179117  
Ion Ratio Lower Upper  
146 100  
111 45.8 22.9 68.7  
148 63.1 31.6 94.7



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 20.672 ug/l  
RT: 14.694 min Scan# 2166  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 37135  
Ion Ratio Lower Upper  
75 100  
155 69.6 55.7 83.5  
157 82.2 65.8 98.6

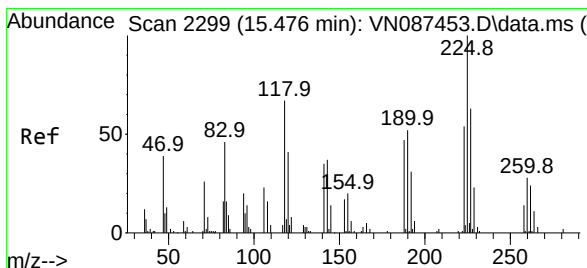
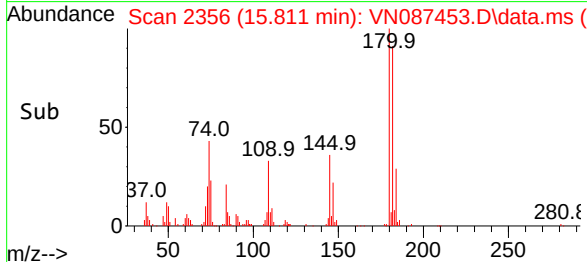
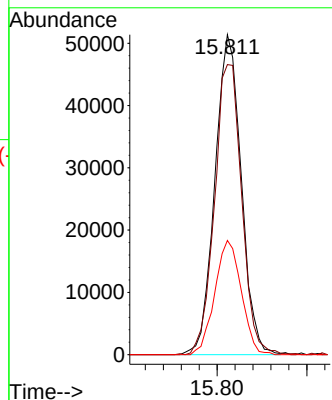
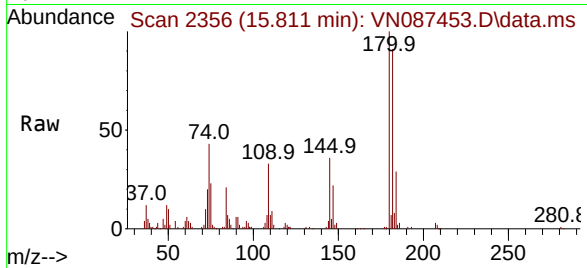




#89  
1,2,4-Trichlorobenzene  
Concen: 20.037 ug/l  
RT: 15.811 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

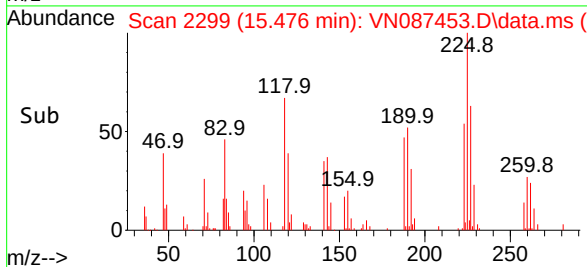
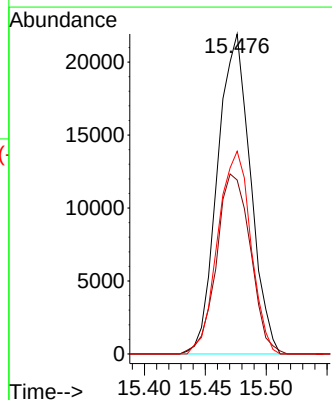
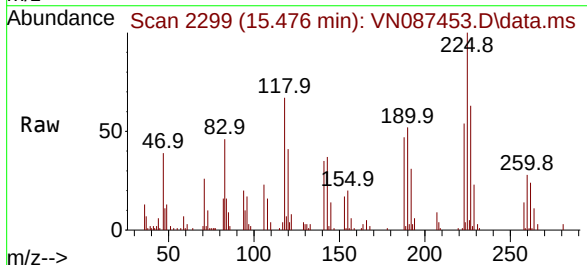
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

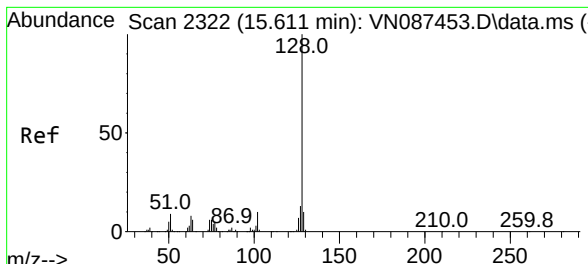
Tgt Ion:180 Resp: 104426  
Ion Ratio Lower Upper  
180 100  
182 93.7 75.0 112.4  
145 35.8 28.6 43.0



#90  
Hexachlorobutadiene  
Concen: 20.349 ug/l  
RT: 15.476 min Scan# 2299  
Delta R.T. 0.000 min  
Lab File: VN087453.D  
Acq: 05 Aug 2025 13:58

Tgt Ion:225 Resp: 41238  
Ion Ratio Lower Upper  
225 100  
223 58.0 0.0 116.0  
227 63.5 0.0 127.0



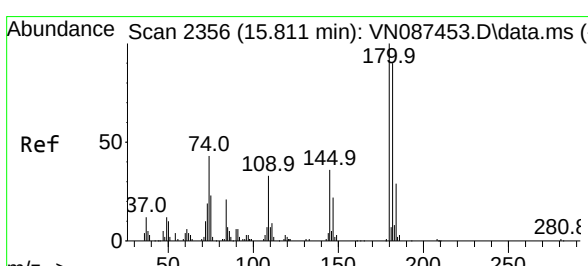
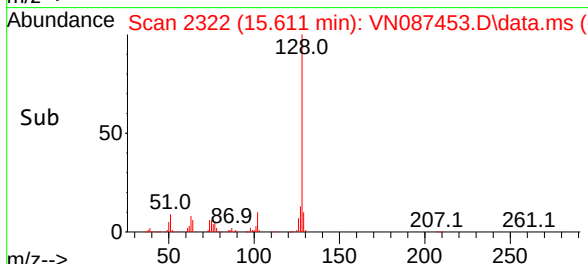
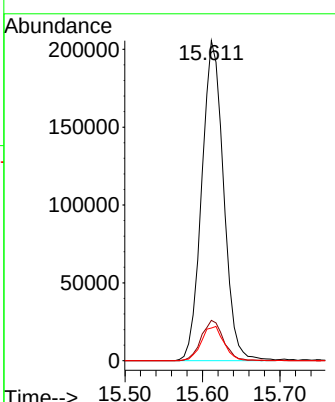
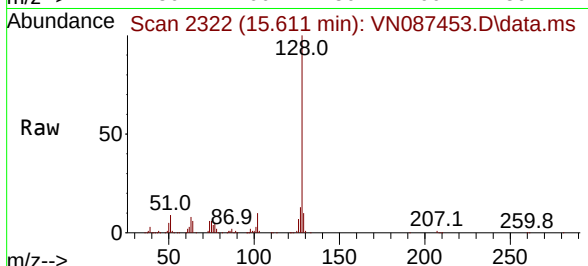


#91  
 Naphthalene  
 Concen: 20.241 ug/l  
 RT: 15.611 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Tgt Ion:128 Resp: 402240

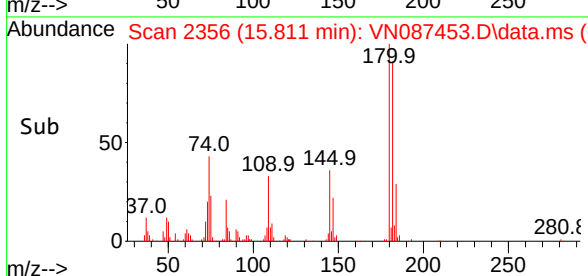
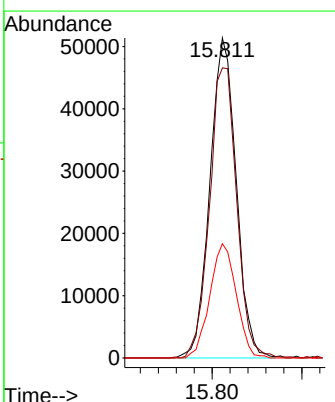
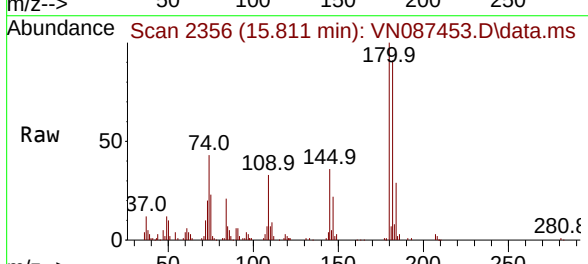
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.8  | 10.2  | 15.4  |
| 129 | 11.1  | 8.9   | 13.3  |



#92  
 1,2,3-Trichlorobenzene  
 Concen: 20.037 ug/l  
 RT: 15.811 min Scan# 2356  
 Delta R.T. 0.000 min  
 Lab File: VN087453.D  
 Acq: 05 Aug 2025 13:58

Tgt Ion:180 Resp: 104426

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 93.7  | 0.0   | 187.4 |
| 145 | 35.8  | 0.0   | 71.6  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087454.D  
 Acq On : 05 Aug 2025 14:19  
 Operator : JC\MD  
 Sample : VSTDIC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

Quant Time: Aug 06 01:28:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 76249               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 418905              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 385657              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 211654              | 30.095  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.333% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 201264              | 30.325  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.067% |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 534559              | 30.124  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 100.400% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 234078              | 47.020  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 229410              | 44.915  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.542          | 62   | 242082              | 44.687  | ug/l   | 93       |
| 5) Bromomethane              | 2.977          | 94   | 136035              | 46.393  | ug/l   | 84       |
| 6) Chloroethane              | 3.136          | 64   | 153939              | 44.067  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 344998              | 44.251  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.959          | 74   | 147110              | 45.292  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 176341              | 44.354  | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 182951              | 43.809  | ug/l   | 94       |
| 11) Methyl Iodide            | 4.577          | 142  | 154678              | 47.274  | ug/l   | 99       |
| 12) Methyl Acetate           | 5.012          | 43   | 351071              | 45.556  | ug/l   | 98       |
| 13) Acrolein                 | 4.177          | 56   | 262498              | 223.074 | ug/l   | 96       |
| 14) Acrylonitrile            | 5.706          | 53   | 757874              | 225.213 | ug/l   | 100      |
| 15) Acetone                  | 4.424          | 58   | 212947              | 221.472 | ug/l   | 95       |
| 16) Carbon Disulfide         | 4.700          | 76   | 576164              | 44.477  | ug/l   | 98       |
| 17) Allyl chloride           | 5.012          | 41   | 392451              | 46.106  | ug/l   | 97       |
| 18) Methylene Chloride       | 5.265          | 84   | 239778              | 44.610  | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 219724              | 44.245  | ug/l   | 98       |
| 20) Diisopropyl ether        | 6.659          | 45   | 877578              | 45.278  | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 453264              | 45.221  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 273116              | 44.697  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 323387              | 226.154 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 859723              | 45.179  | ug/l   | 99       |
| 25) Chloroform               | 7.947          | 83   | 475045              | 45.405  | ug/l   | 98       |
| 26) Cyclohexane              | 8.241          | 56   | 361178              | 45.006  | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 310679              | 45.472  | ug/l   | 97       |
| 30) 2-Butanone               | 7.471          | 43   | 1165660             | 231.454 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 402451              | 45.671  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 398348              | 45.714  | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 330997              | 45.723  | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 984335              | 45.639  | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.765          | 41   | 260104              | 47.860  | ug/l   | 99       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 393795              | 45.169  | ug/l   | 98       |
| 37) Trichloroethene          | 9.335          | 130  | 217082              | 45.693  | ug/l   | 95       |
| 38) Methylcyclohexane        | 9.582          | 83   | 357253              | 45.072  | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 249627              | 45.142  | ug/l   | 97       |
| 40) Dibromomethane           | 9.688          | 93   | 187857              | 45.278  | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 391953              | 45.463  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.589          | 43   | 3796699             | 228.920 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087454.D  
 Acq On : 05 Aug 2025 14:19  
 Operator : JC\MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

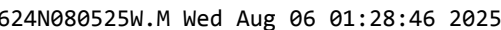
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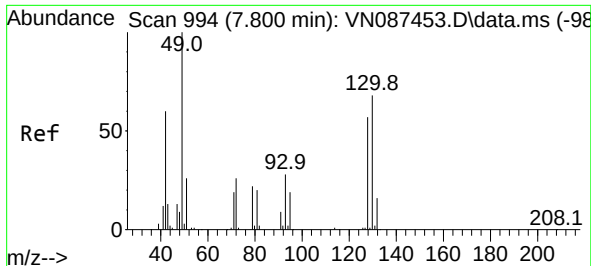
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 436753   | 45.558  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 755567   | 45.813  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 98035    | 932.433 | ug/l   | 97       |
| 46) Methyl methacrylate       | 9.665  | 41   | 351323   | 45.128  | ug/l   | 98       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 431587   | 46.014  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 439121   | 46.521  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 240010   | 45.786  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 435415   | 47.164  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 433869   | 45.941  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.335 | 129  | 280542   | 46.341  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 254243   | 45.688  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 1118997  | 230.244 | ug/l   | 100      |
| 56) Bromoform                 | 12.559 | 173  | 186820   | 46.656  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 2290380  | 230.864 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 1620747  | 240.439 | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 173500   | 46.177  | ug/l   | 93       |
| 62) Toluene                   | 10.612 | 91   | 1085878  | 45.620  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 662306   | 45.283  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 233942   | 45.493  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 1215937  | 45.832  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.047 | 106  | 902756   | 92.702  | ug/l   | 97       |
| 68) o-Xylene                  | 12.376 | 106  | 437515   | 45.667  | ug/l   | 99       |
| 69) Styrene                   | 12.388 | 104  | 759493   | 46.428  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 1111500  | 45.666  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 379527   | 45.508  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 525215   | 61.267  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 255773   | 45.330  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 1391658  | 45.781  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 853763   | 45.659  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 961117   | 46.118  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 141496   | 48.111  | ug/l   | 93       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 875292   | 46.192  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.418 | 119  | 813723   | 46.311  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 971243   | 46.640  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 1188558  | 46.465  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 982310   | 46.251  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 499720   | 46.509  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 507658   | 46.603  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 972192   | 46.785  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 192686   | 46.458  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 482093   | 47.005  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 95570    | 45.236  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 279770   | 45.643  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 106360   | 44.624  | ug/l   | 97       |
| 91) Naphthalene               | 15.611 | 128  | 1076915  | 46.078  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 279770   | 45.643  | ug/l   | 99       |

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

Quant Time: Aug 06 01:28:33 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration

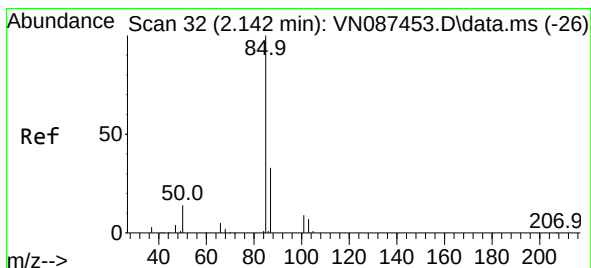
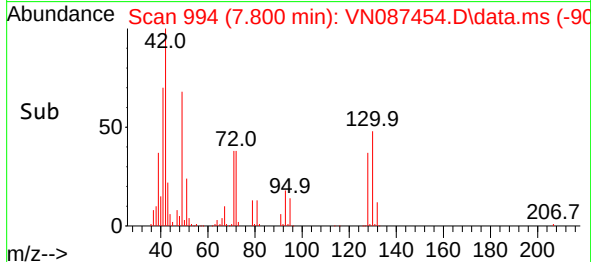
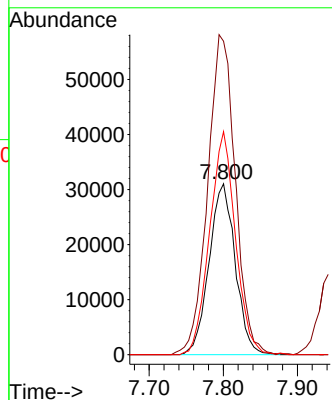
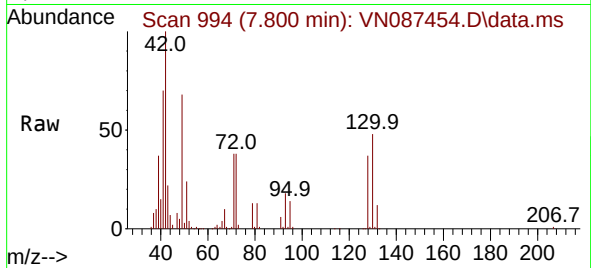




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

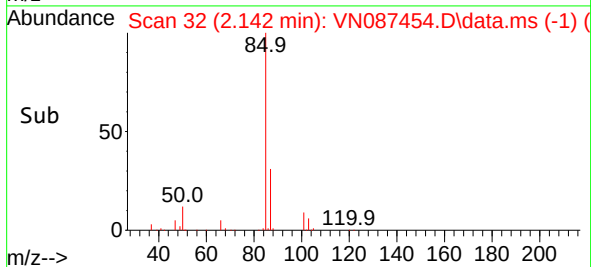
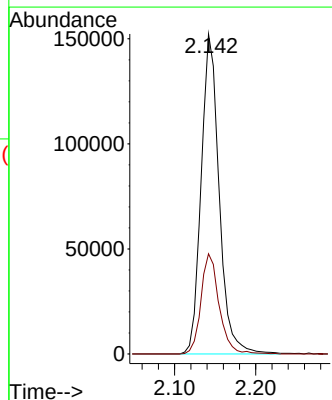
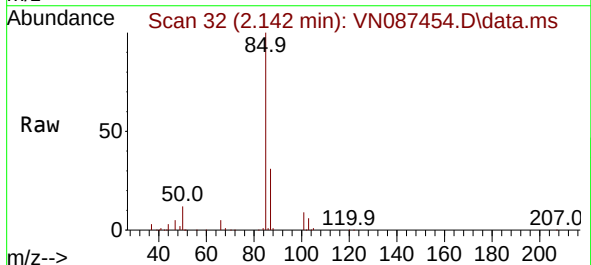
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

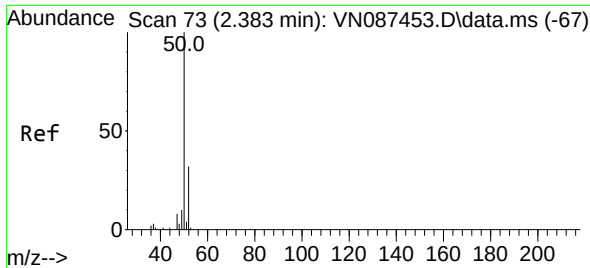
Tgt Ion:128 Resp: 76249  
Ion Ratio Lower Upper  
128 100  
49 197.4 0.0 494.8  
130 128.9 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 47.020 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 85 Resp: 234078  
Ion Ratio Lower Upper  
85 100  
87 31.3 16.4 49.2

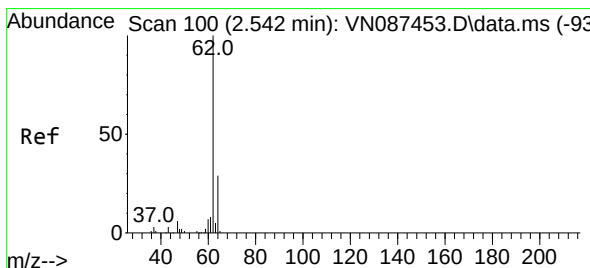
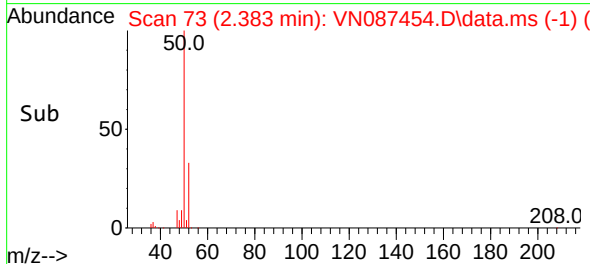
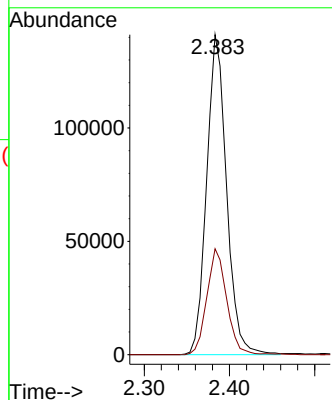
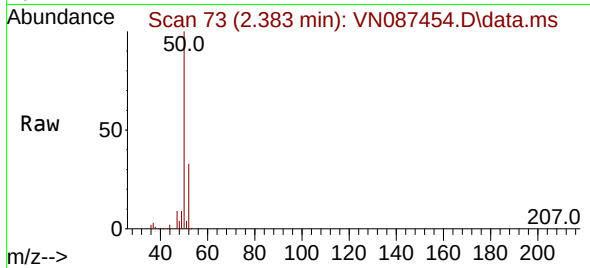




#3  
Chloromethane  
Concen: 44.915 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

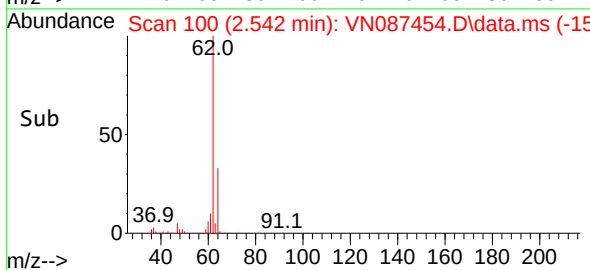
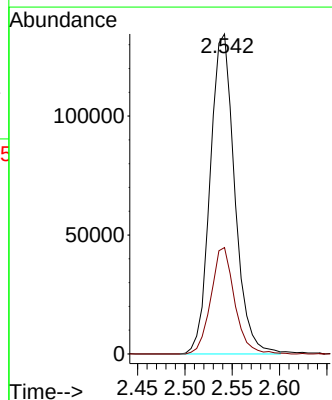
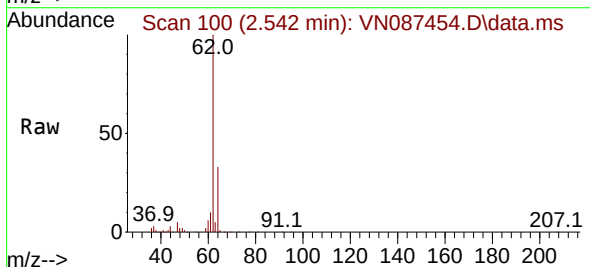
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

Tgt Ion: 50 Resp: 229410  
Ion Ratio Lower Upper  
50 100  
52 33.1 25.8 38.6

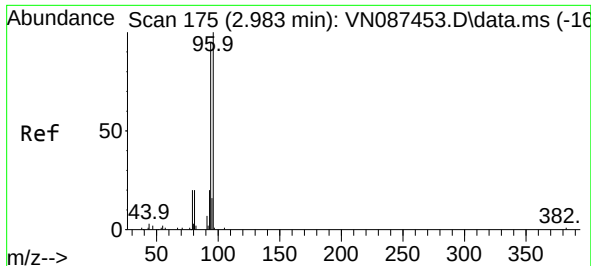


#4  
Vinyl Chloride  
Concen: 44.687 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 62 Resp: 242082  
Ion Ratio Lower Upper  
62 100  
64 33.3 23.4 35.2



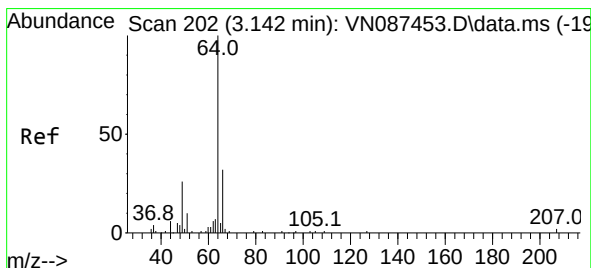
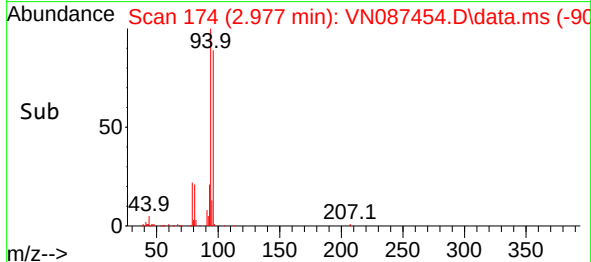
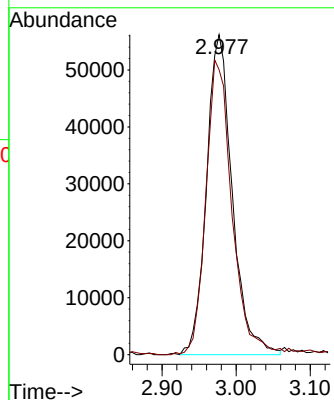
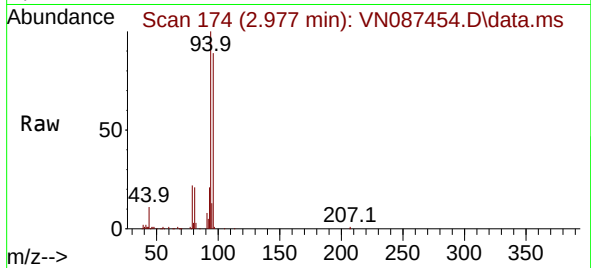




#5  
Bromomethane  
Concen: 46.393 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

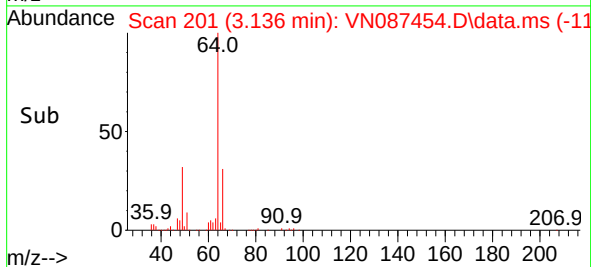
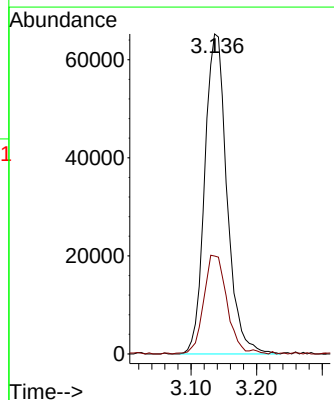
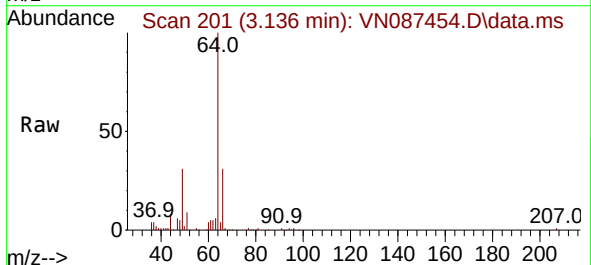
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

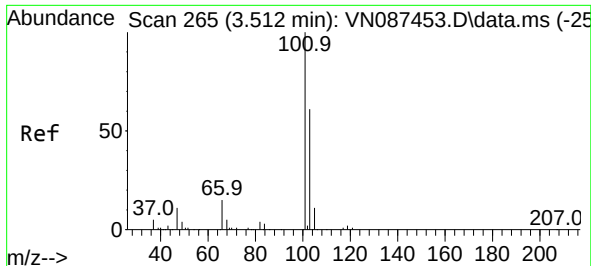
Tgt Ion: 94 Resp: 136035  
Ion Ratio Lower Upper  
94 100  
96 88.7 84.2 126.4



#6  
Chloroethane  
Concen: 44.067 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 64 Resp: 153939  
Ion Ratio Lower Upper  
64 100  
66 30.3 25.4 38.0

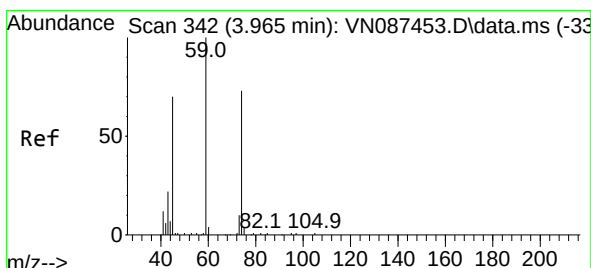
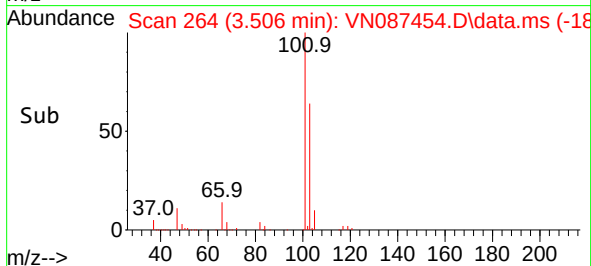
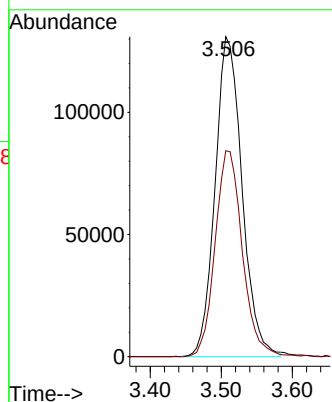
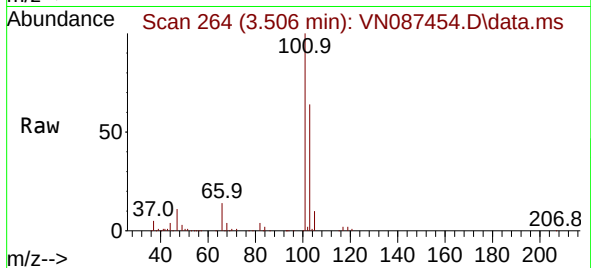




#7  
Trichlorofluoromethane  
Concen: 44.251 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

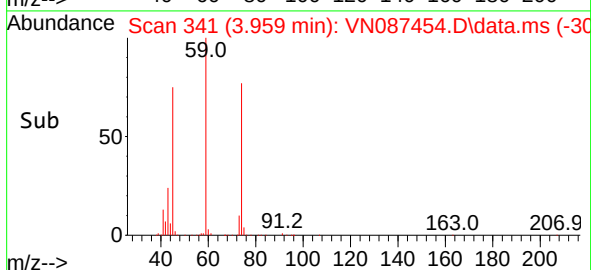
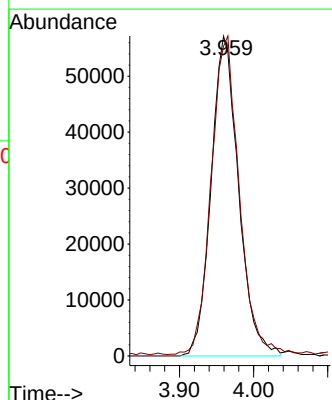
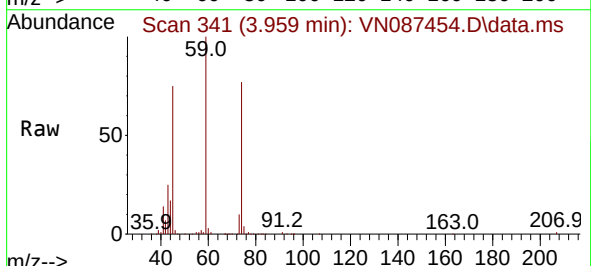
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

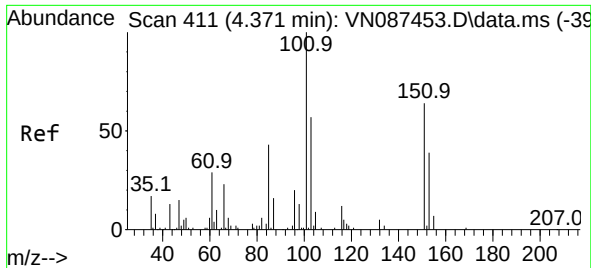
Tgt Ion:101 Resp: 344998  
Ion Ratio Lower Upper  
101 100  
103 64.3 49.2 73.8



#8  
Diethyl Ether  
Concen: 45.292 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 74 Resp: 147110  
Ion Ratio Lower Upper  
74 100  
45 99.5 20.1 180.9

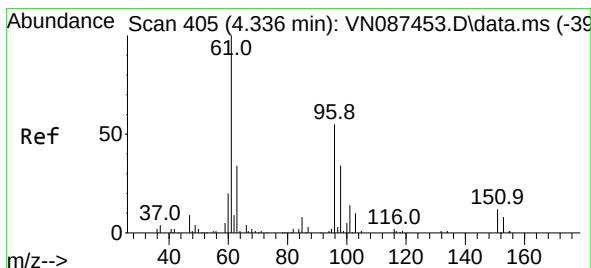
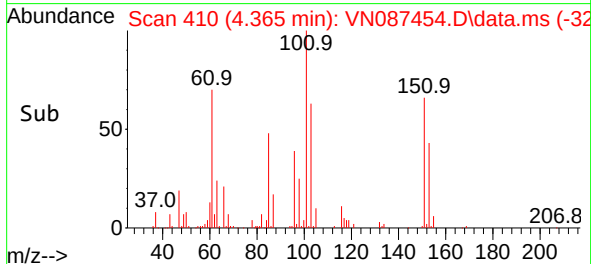
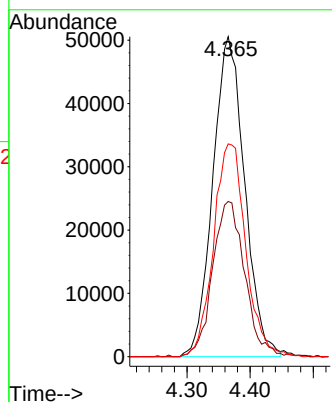
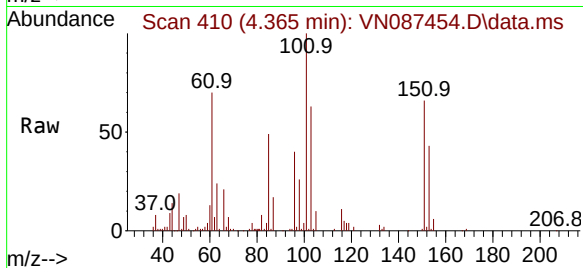




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 44.354 ug/l  
 RT: 4.365 min Scan# 411  
 Delta R.T. -0.006 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

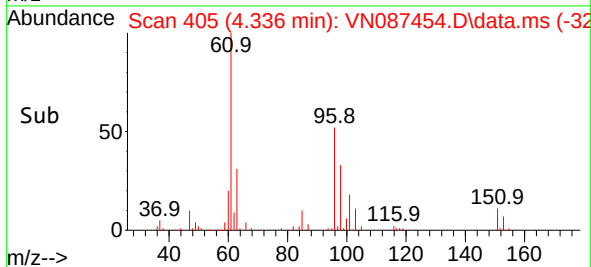
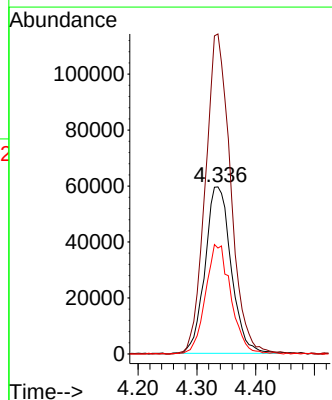
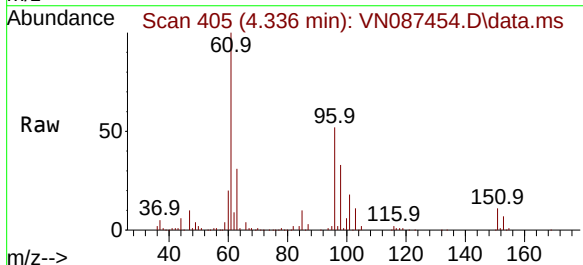
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 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

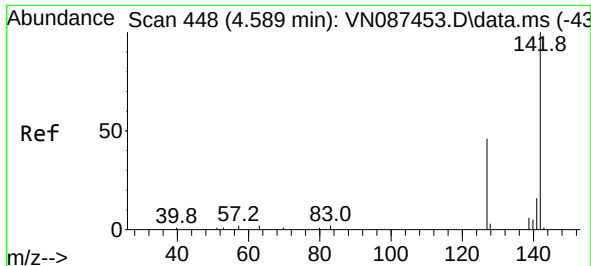
Tgt Ion:101 Resp: 176341  
 Ion Ratio Lower Upper  
 101 100  
 85 48.9 0.0 57.0  
 151 67.5 0.0 134.2



#10  
 1,1-Dichloroethene  
 Concen: 43.809 ug/l  
 RT: 4.336 min Scan# 405  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Tgt Ion: 96 Resp: 182951  
 Ion Ratio Lower Upper  
 96 100  
 61 191.2 144.2 216.4  
 98 63.4 49.7 74.5

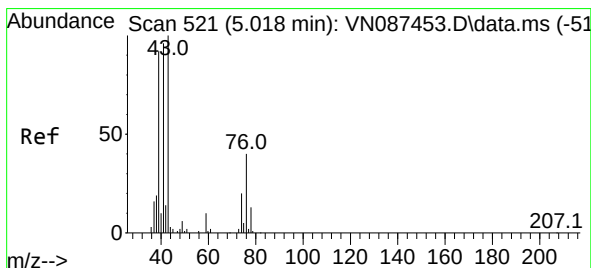
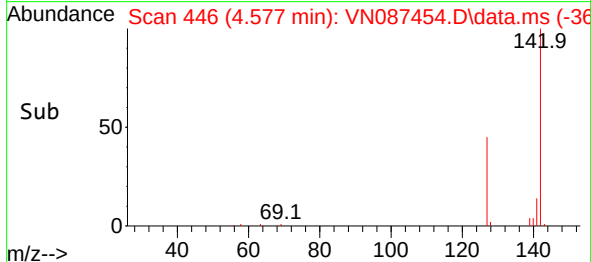
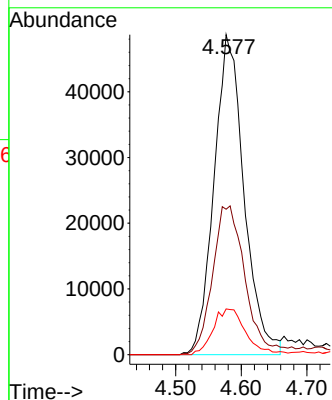
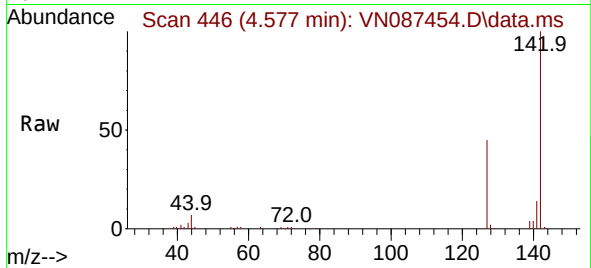




#11  
Methyl Iodide  
Concen: 47.274 ug/l  
RT: 4.577 min Scan# 44  
Delta R.T. -0.012 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

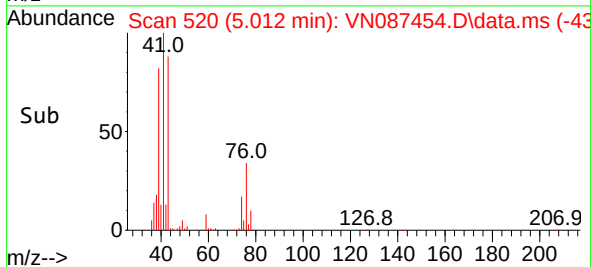
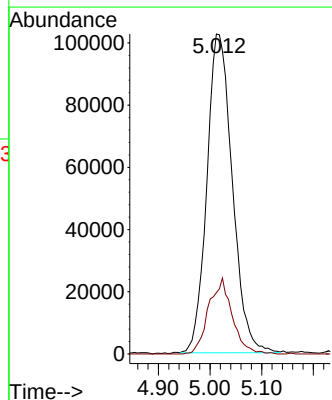
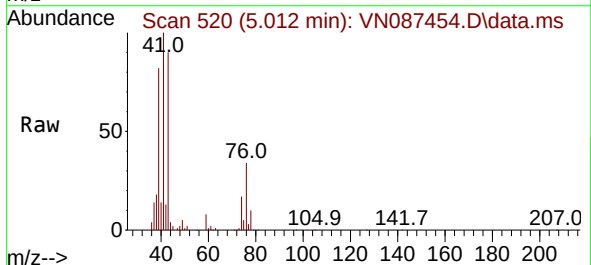
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

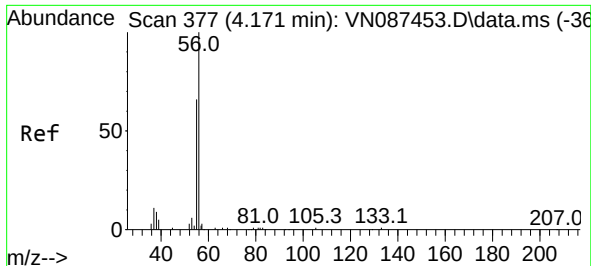
Tgt Ion:142 Resp: 154678  
Ion Ratio Lower Upper  
142 100  
127 45.2 22.9 68.7  
141 14.1 7.7 23.1



#12  
Methyl Acetate  
Concen: 45.556 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 351071  
Ion Ratio Lower Upper  
43 100  
74 19.2 16.0 24.0

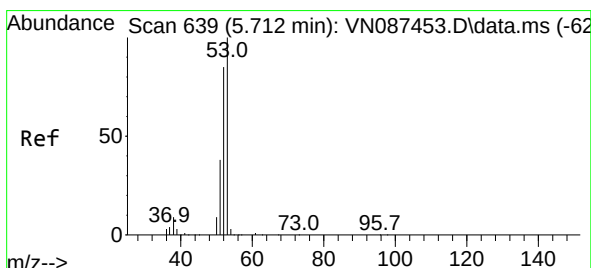
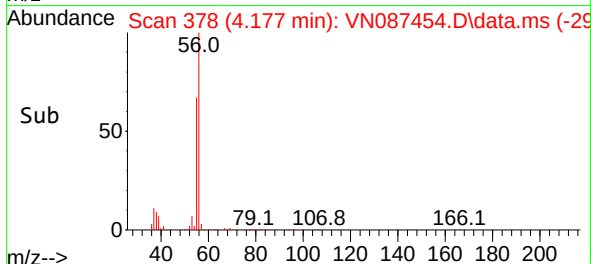
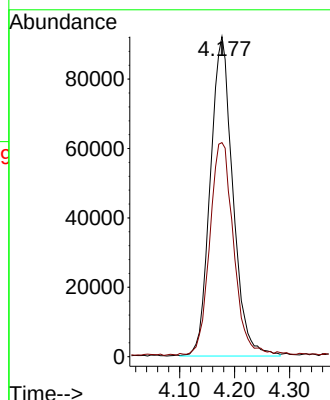
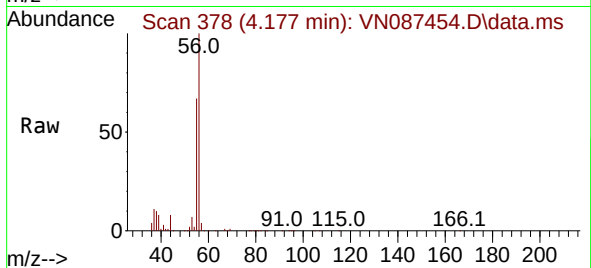




#13  
Acrolein  
Concen: 223.074 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

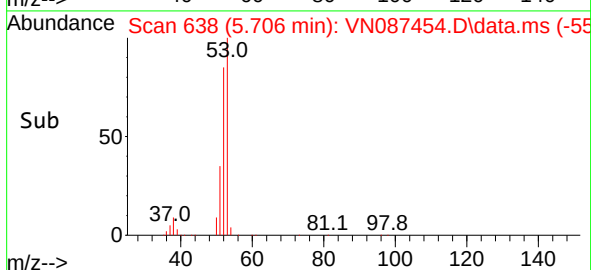
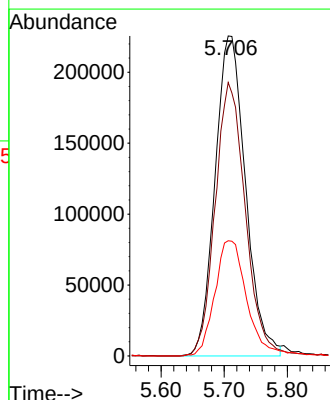
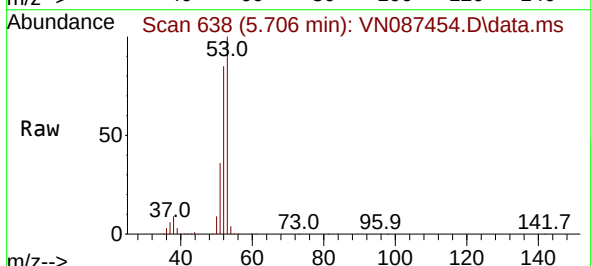
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

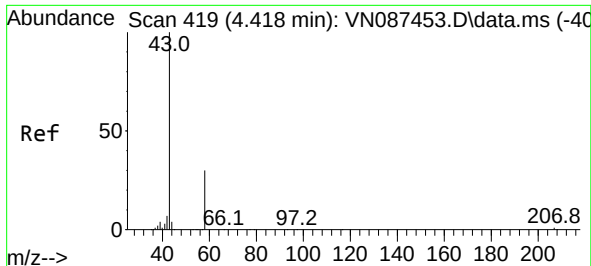
Tgt Ion: 56 Resp: 262498  
Ion Ratio Lower Upper  
56 100  
55 68.0 57.4 86.0



#14  
Acrylonitrile  
Concen: 225.213 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 53 Resp: 757874  
Ion Ratio Lower Upper  
53 100  
52 84.5 42.4 127.2  
51 37.4 18.5 55.5

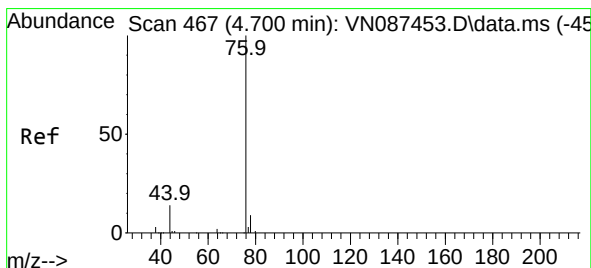
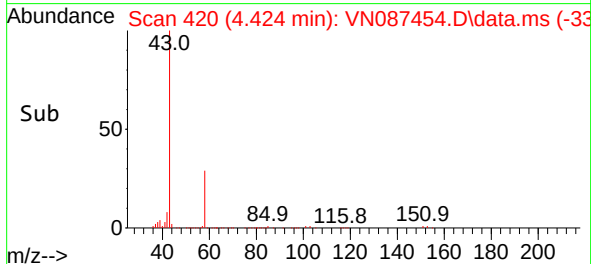
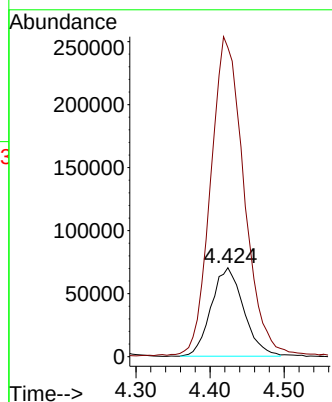
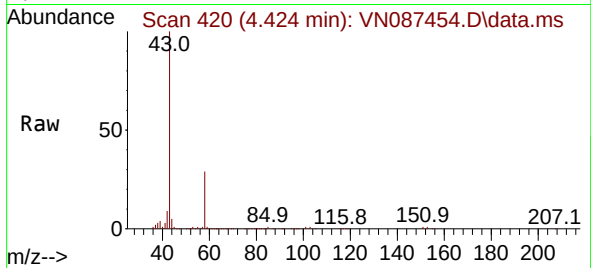




#15  
Acetone  
Concen: 221.472 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

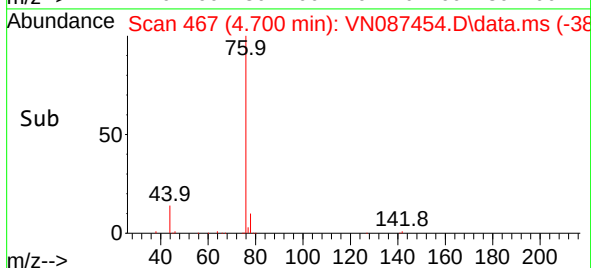
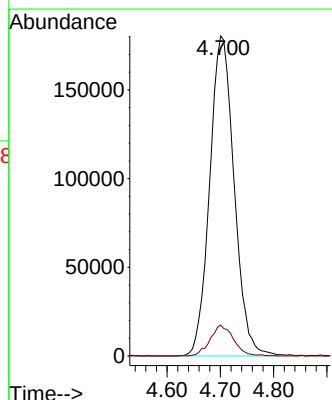
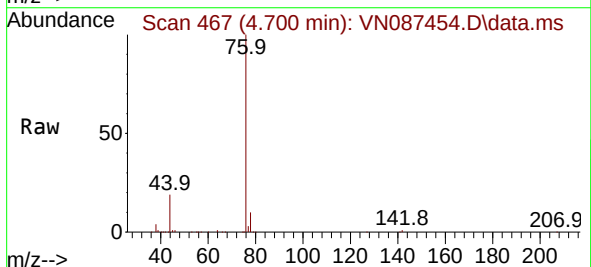
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

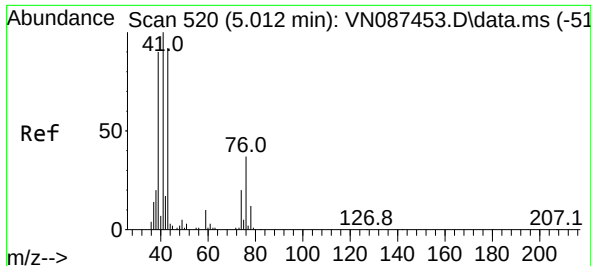
Tgt Ion: 58 Resp: 212947  
Ion Ratio Lower Upper  
58 100  
43 345.9 268.9 403.3



#16  
Carbon Disulfide  
Concen: 44.477 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 76 Resp: 576164  
Ion Ratio Lower Upper  
76 100  
78 9.7 7.1 10.7

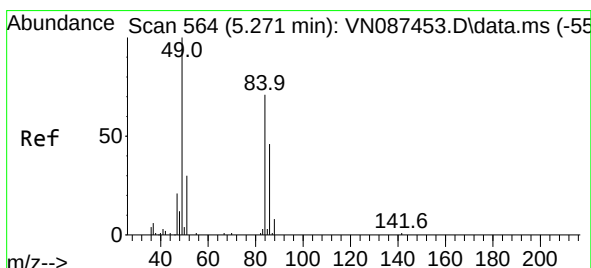
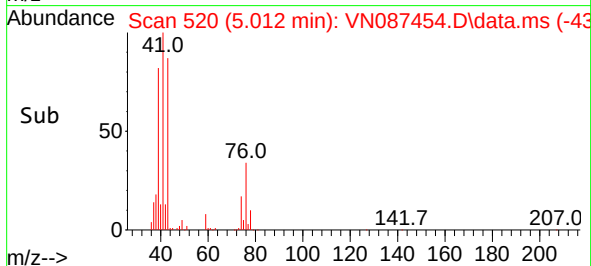
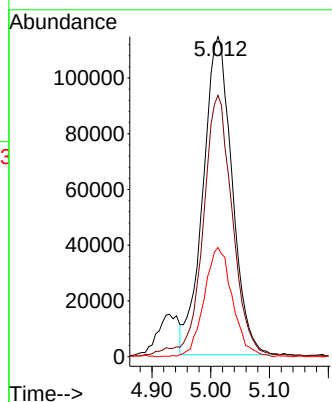
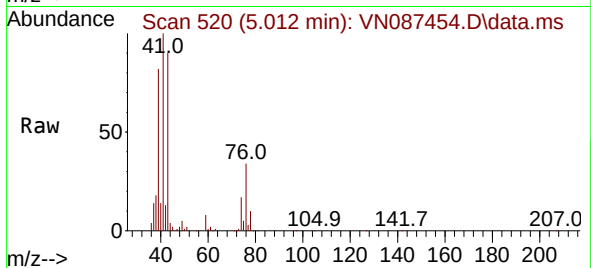




#17  
 Allyl chloride  
 Concen: 46.106 ug/l  
 RT: 5.012 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

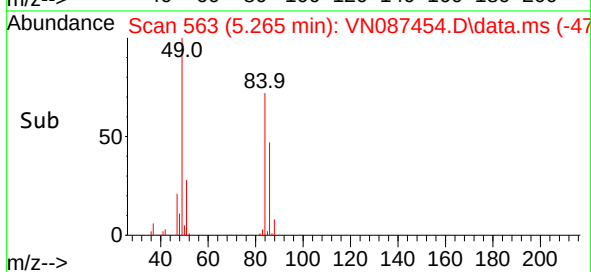
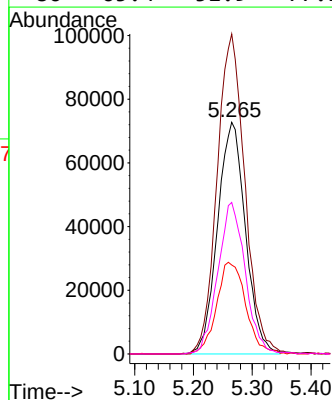
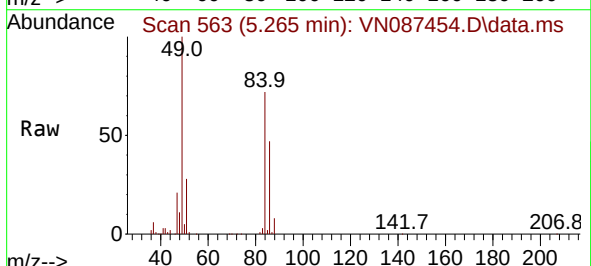
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

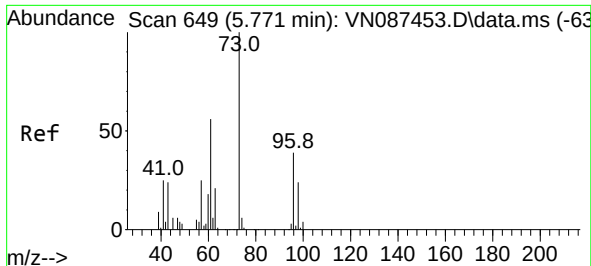
Tgt Ion: 41 Resp: 392451  
 Ion Ratio Lower Upper  
 41 100  
 39 81.6 42.4 127.2  
 76 34.1 16.9 50.6



#18  
 Methylene Chloride  
 Concen: 44.610 ug/l  
 RT: 5.265 min Scan# 563  
 Delta R.T. -0.006 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Tgt Ion: 84 Resp: 239778  
 Ion Ratio Lower Upper  
 84 100  
 49 138.1 112.9 169.3  
 51 38.4 33.8 50.8  
 86 65.4 51.9 77.9

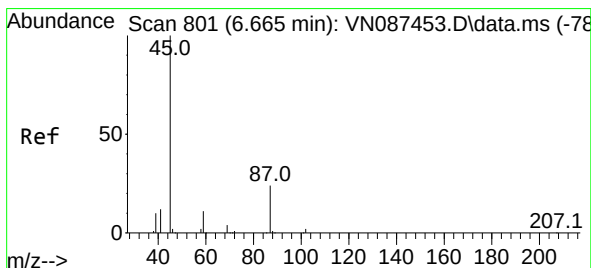
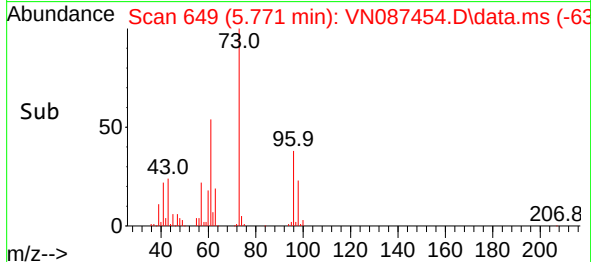
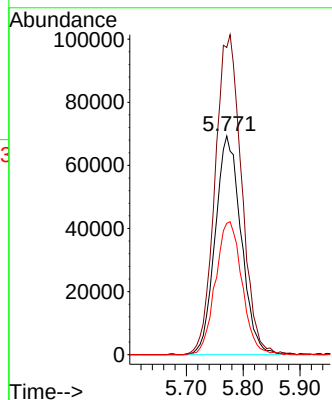
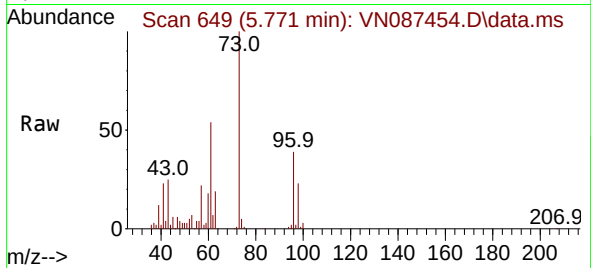




#19  
trans-1,2-Dichloroethene  
Concen: 44.245 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

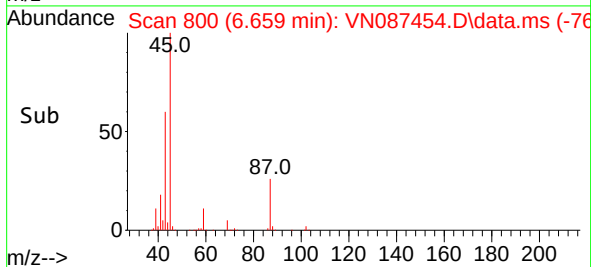
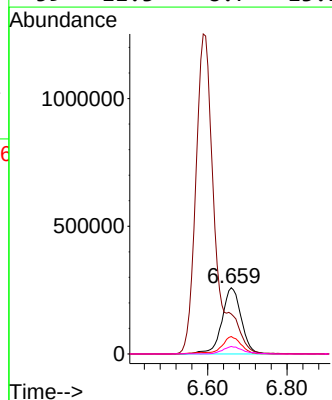
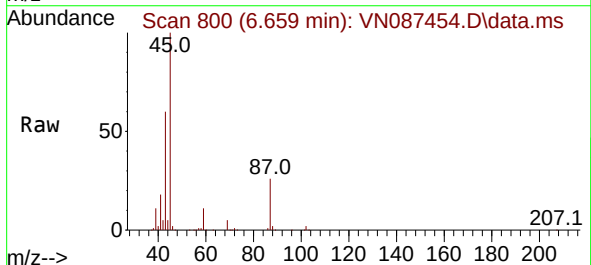
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 96 Resp: 219724  
Ion Ratio Lower Upper  
96 100  
61 140.4 114.2 171.4  
98 60.1 48.7 73.1

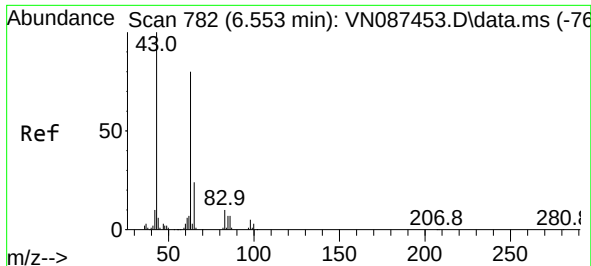


#20  
Diisopropyl ether  
Concen: 45.278 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 45 Resp: 877578  
Ion Ratio Lower Upper  
45 100  
43 59.5 44.7 67.1  
87 26.2 20.2 30.2  
59 11.3 8.7 13.1



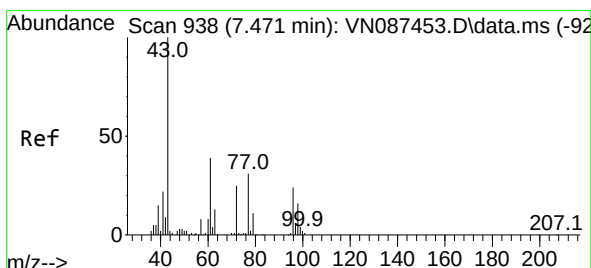
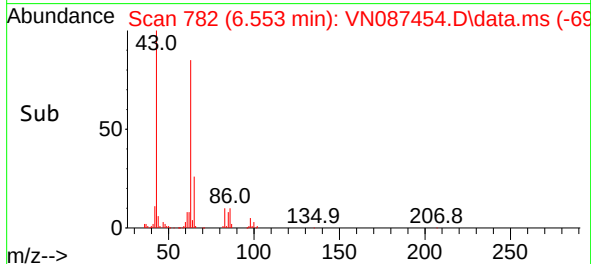
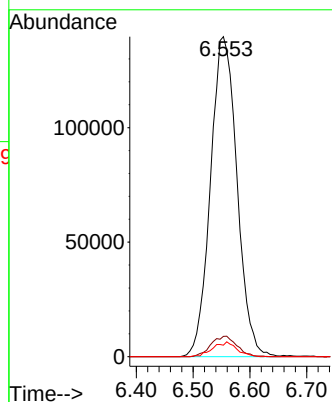
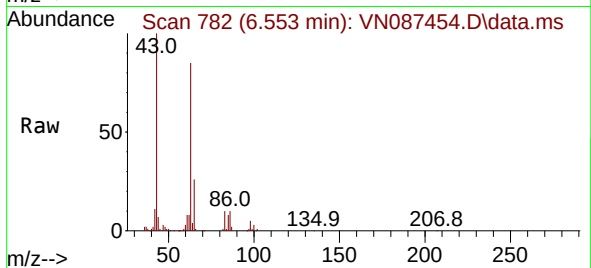




#21  
1,1-Dichloroethane  
Concen: 45.221 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

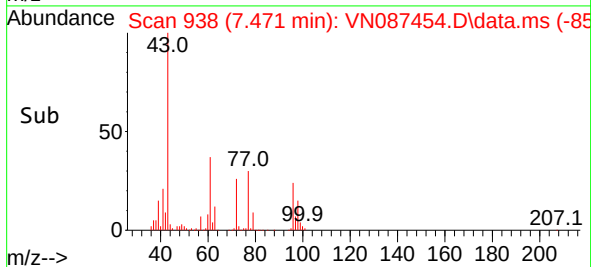
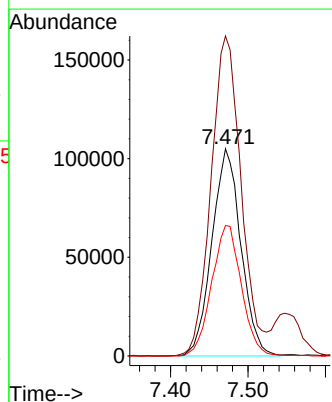
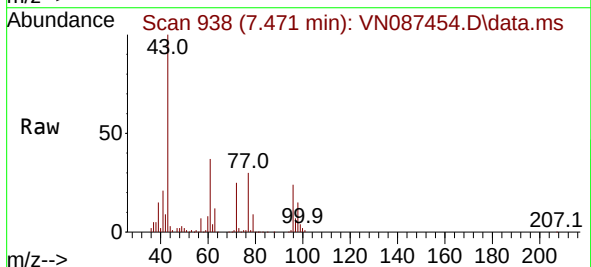
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

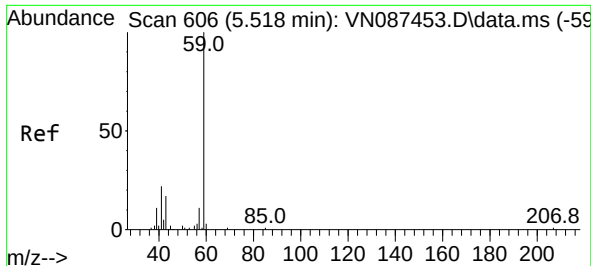
Tgt Ion: 63 Resp: 453264  
Ion Ratio Lower Upper  
63 100  
98 6.3 3.0 9.0  
100 3.6 1.9 5.7



#22  
cis-1,2-Dichloroethene  
Concen: 44.697 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 96 Resp: 273116  
Ion Ratio Lower Upper  
96 100  
61 160.2 126.6 190.0  
98 64.4 50.9 76.3

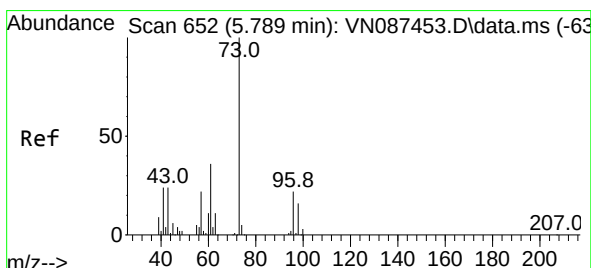
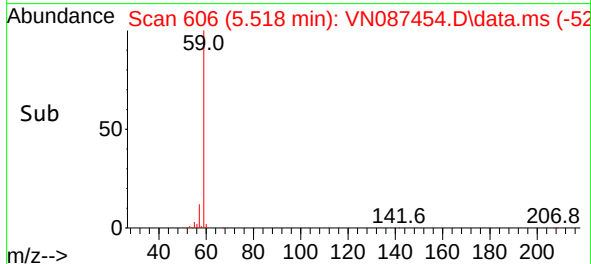
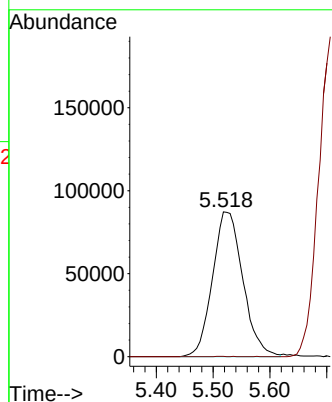
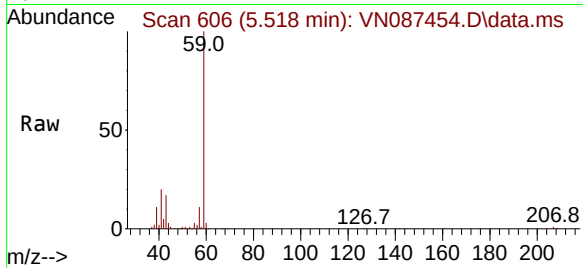




#23  
tert-Butyl Alcohol  
Concen: 226.154 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

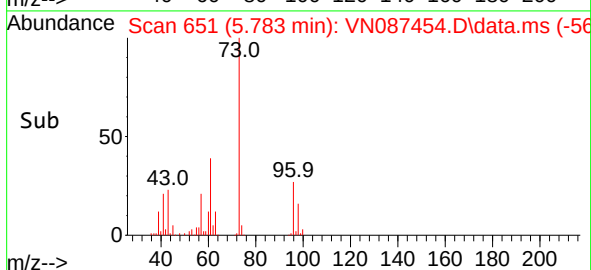
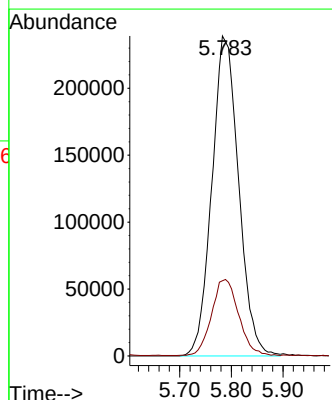
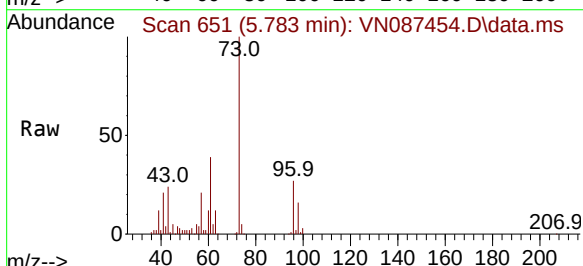
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

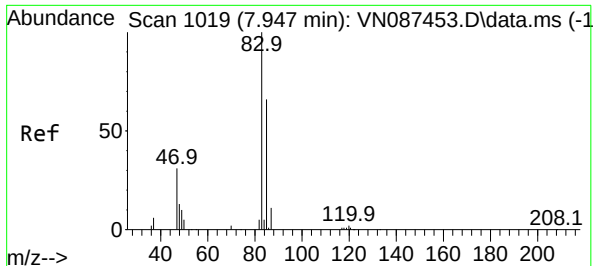
Tgt Ion: 59 Resp: 323387  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0#



#24  
Methyl tert-Butyl Ether  
Concen: 45.179 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 73 Resp: 859723  
Ion Ratio Lower Upper  
73 100  
43 24.2 19.9 29.9





#25

Chloroform

Concen: 45.405 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

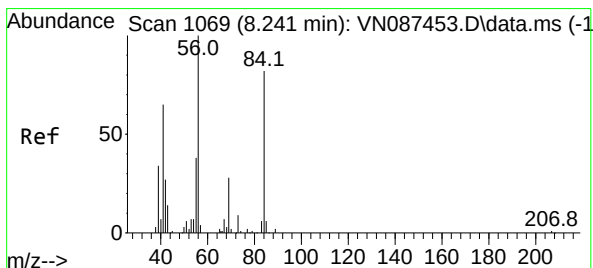
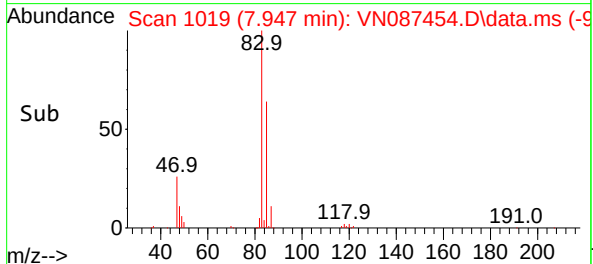
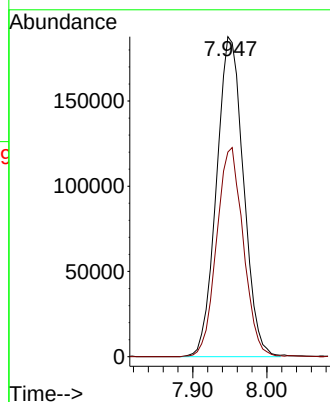
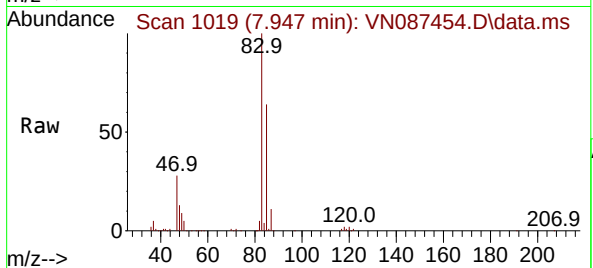
VSTDIC050

Tgt Ion: 83 Resp: 475045

Ion Ratio Lower Upper

83 100

85 64.0 52.6 78.8



#26

Cyclohexane

Concen: 45.006 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

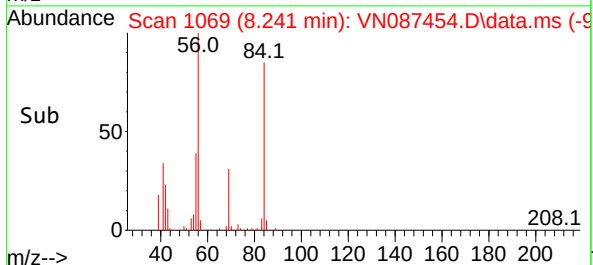
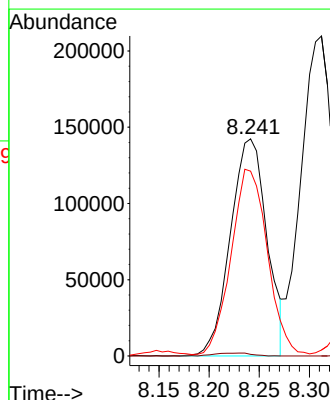
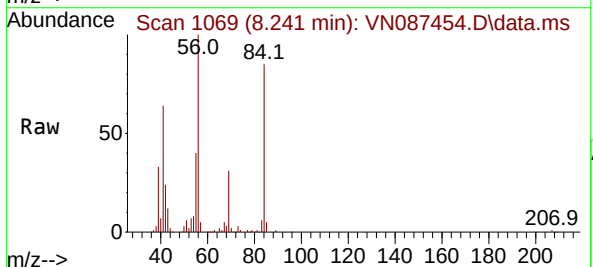
Tgt Ion: 56 Resp: 361178

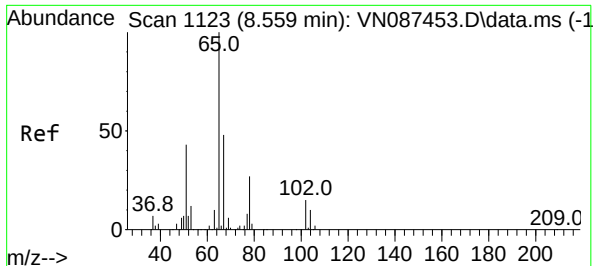
Ion Ratio Lower Upper

56 100

89 1.3 2.3 3.5#

84 86.2 67.0 100.4

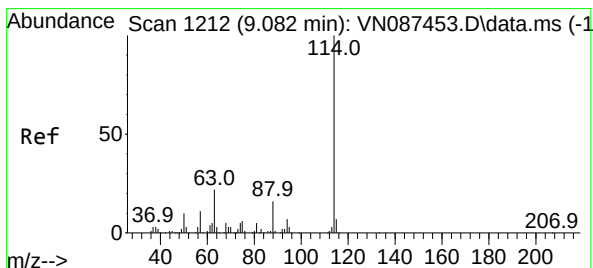
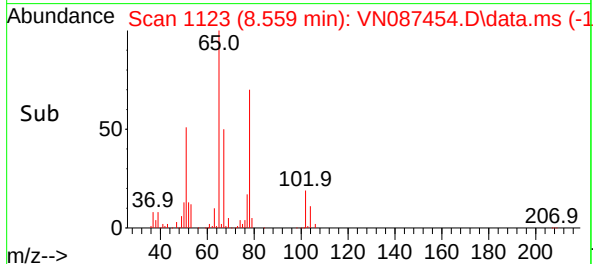
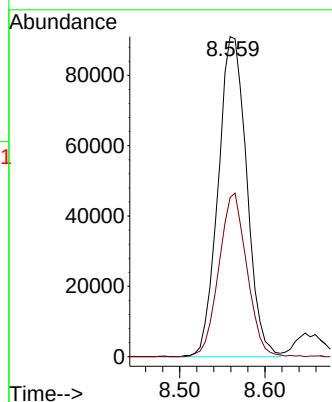
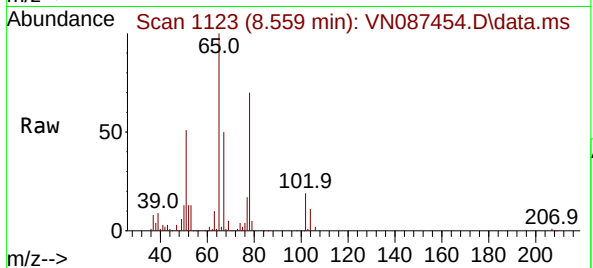




#27  
 1,2-Dichloroethane-d4  
 Concen: 30.095 ug/l  
 RT: 8.559 min Scan# 1123  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

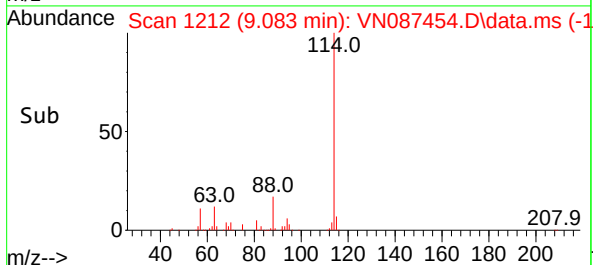
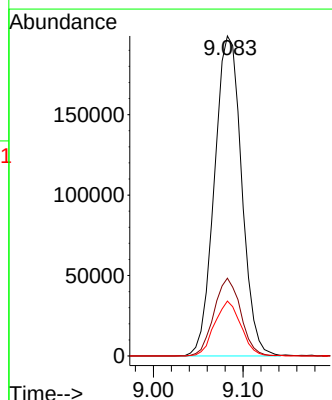
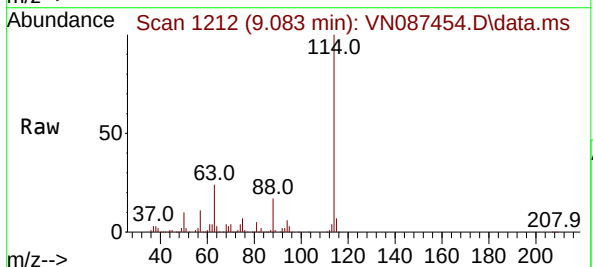
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

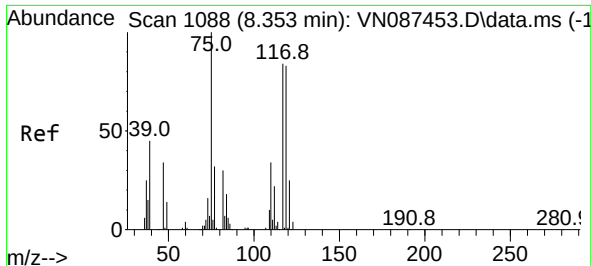
Tgt Ion: 65 Resp: 211654  
 Ion Ratio Lower Upper  
 65 100  
 67 50.0 40.8 61.2



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 9.083 min Scan# 1212  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Tgt Ion: 114 Resp: 418905  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 18.9 28.3  
 88 16.6 13.1 19.7





#29

1,1-Dichloropropene

Concen: 45.472 ug/l

RT: 8.353 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

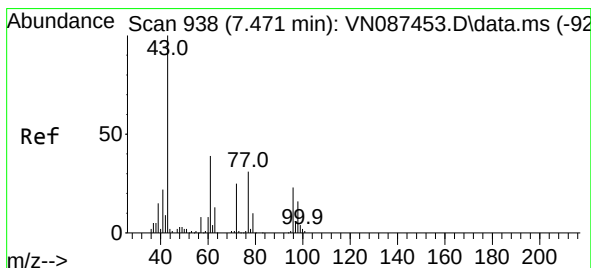
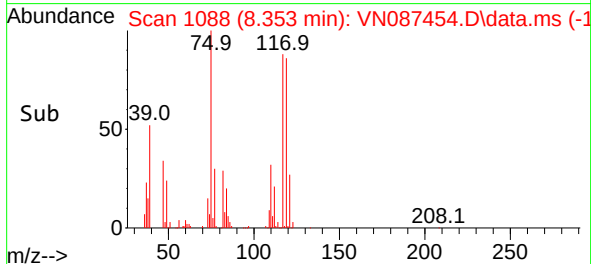
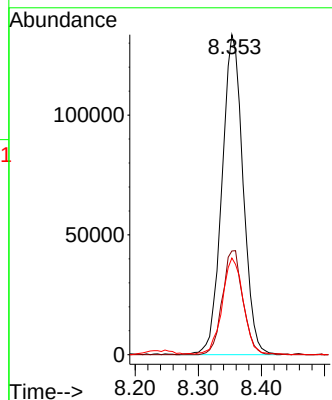
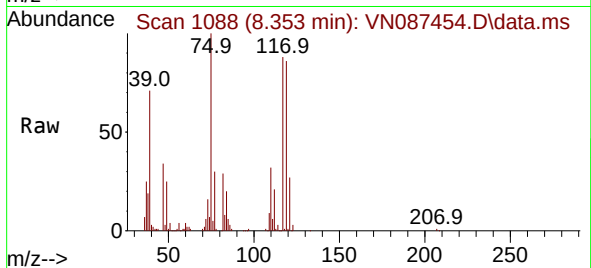
Tgt Ion: 75 Resp: 310679

Ion Ratio Lower Upper

75 100

110 31.5 0.0 65.8

77 30.3 0.0 63.6



#30

2-Butanone

Concen: 231.454 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

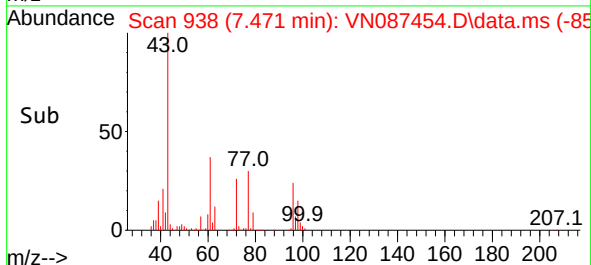
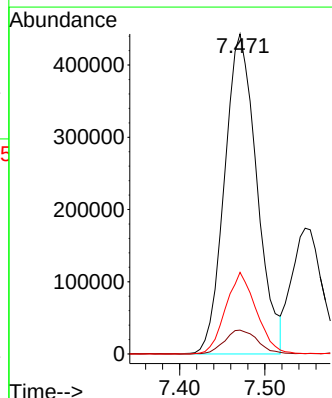
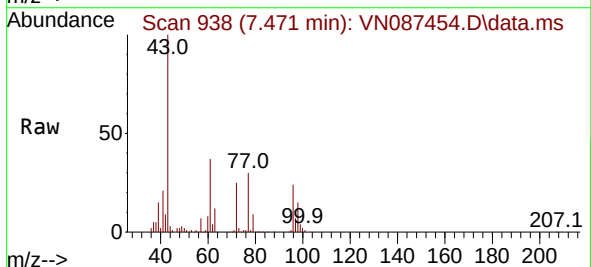
Tgt Ion: 43 Resp: 1165660

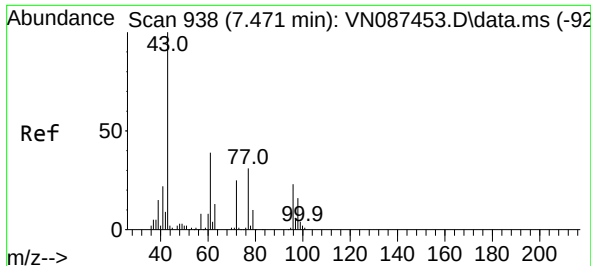
Ion Ratio Lower Upper

43 100

57 7.8 6.6 9.8

72 24.2 19.7 29.5

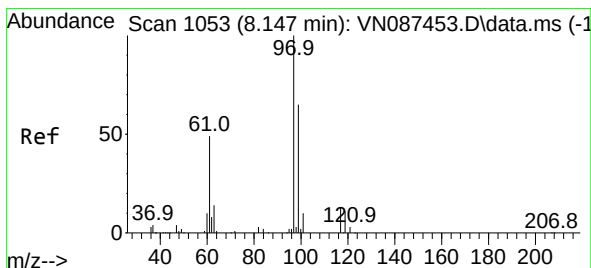
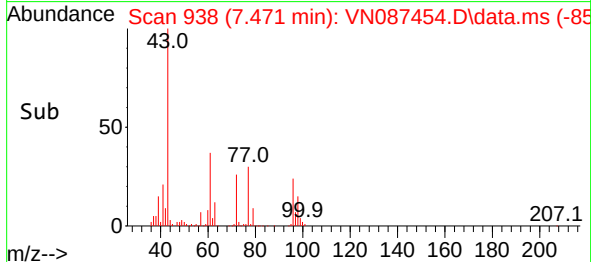
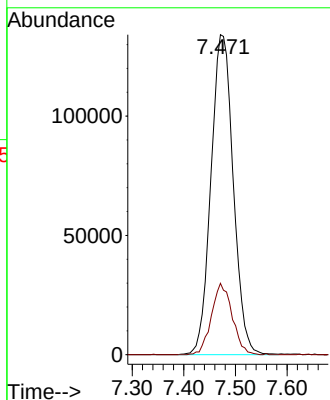
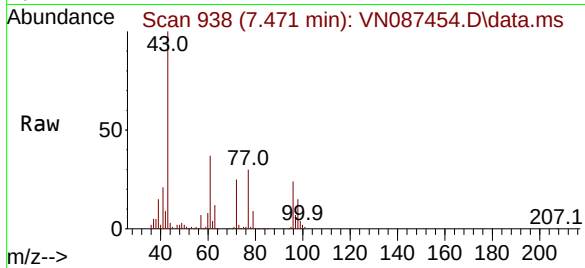




#31  
2,2-Dichloropropane  
Concen: 45.671 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

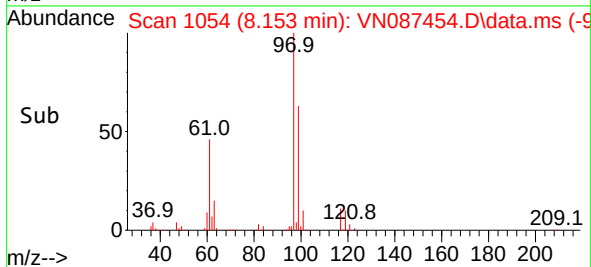
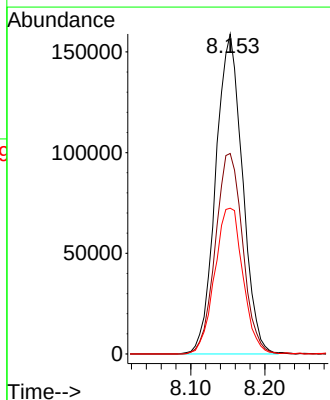
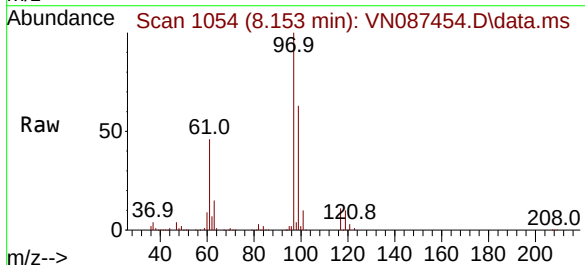
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

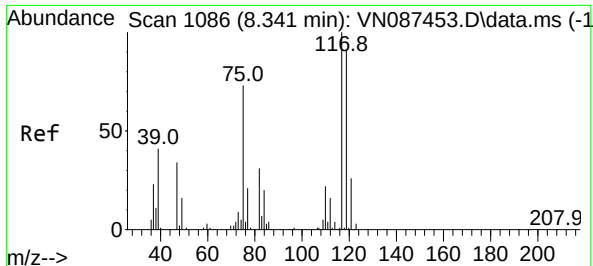
Tgt Ion: 77 Resp: 402451  
Ion Ratio Lower Upper  
77 100  
97 20.7 16.7 25.1



#32  
1,1,1-Trichloroethane  
Concen: 45.714 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 97 Resp: 398348  
Ion Ratio Lower Upper  
97 100  
99 63.9 53.0 79.6  
61 48.1 40.6 61.0

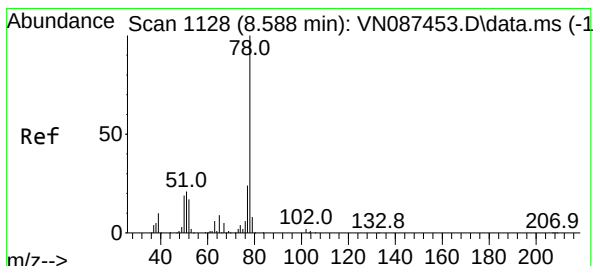
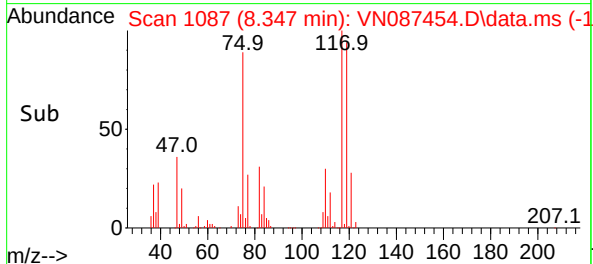
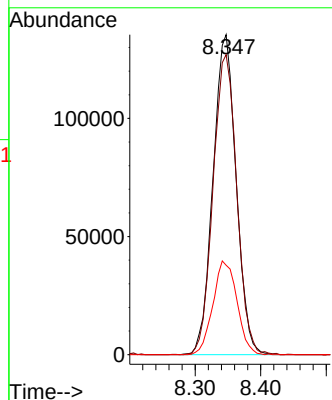
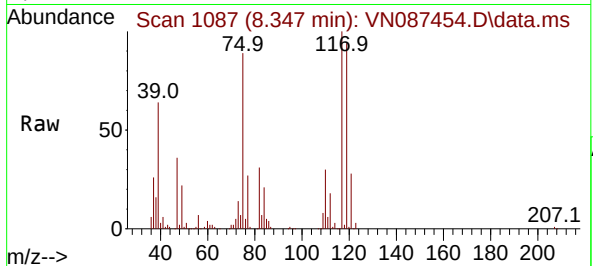




#33  
Carbon Tetrachloride  
Concen: 45.723 ug/l  
RT: 8.347 min Scan# 1086  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

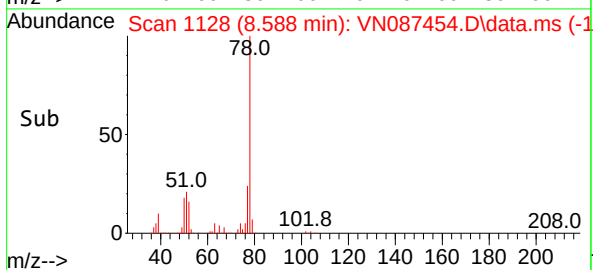
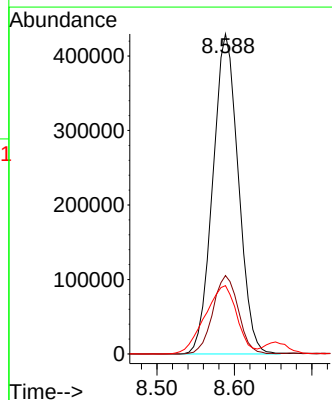
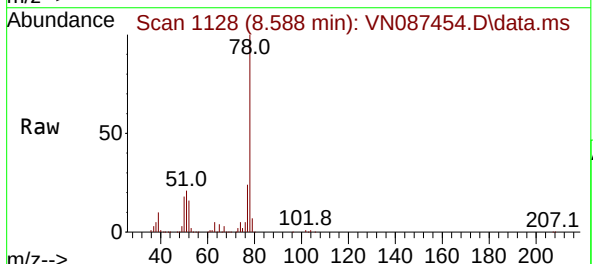
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

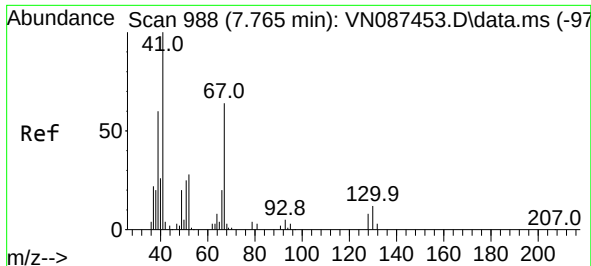
Tgt Ion:117 Resp: 330997  
Ion Ratio Lower Upper  
117 100  
119 93.8 73.4 110.0  
121 27.9 21.1 31.7



#34  
Benzene  
Concen: 45.639 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 78 Resp: 984335  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 20.6 16.9 25.3

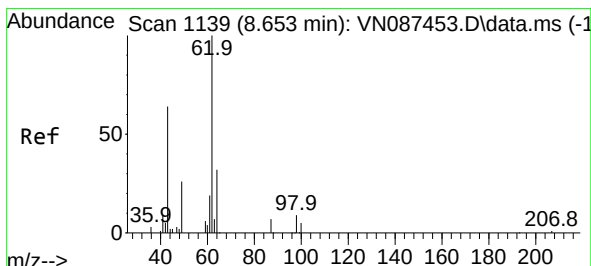
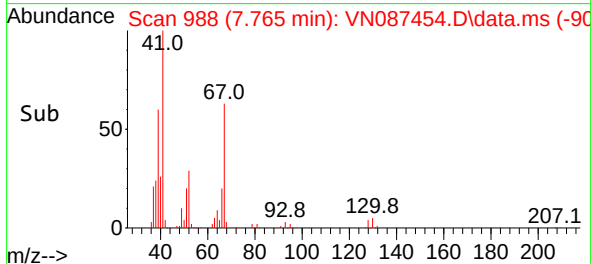
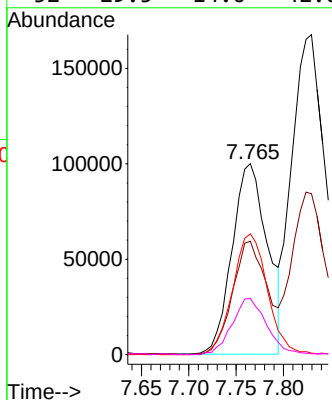
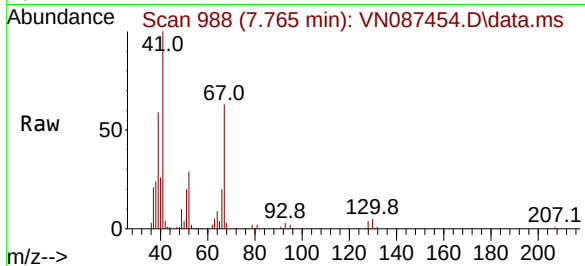




#35  
Methacrylonitrile  
Concen: 47.860 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

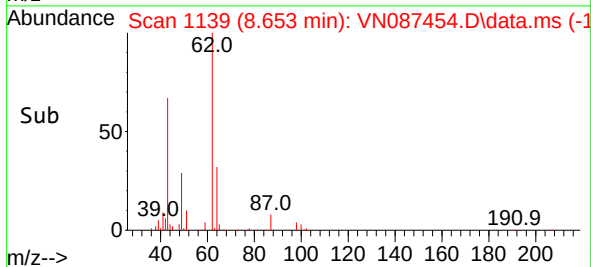
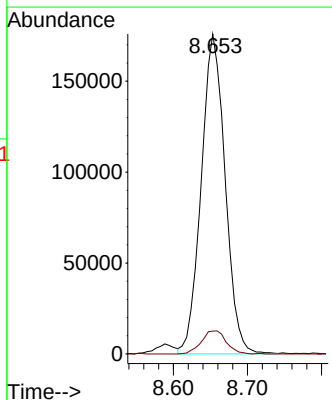
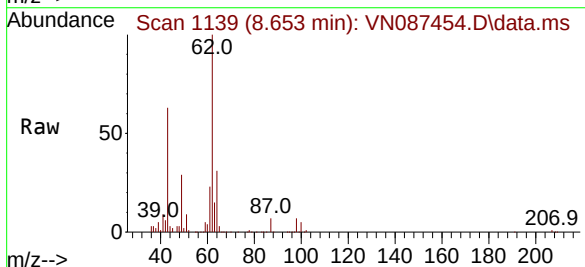
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 260104 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 59.2  | 30.1  | 90.5   |
| 67       | 63.4  | 32.0  | 96.2   |
| 52       | 29.5  | 14.0  | 42.0   |

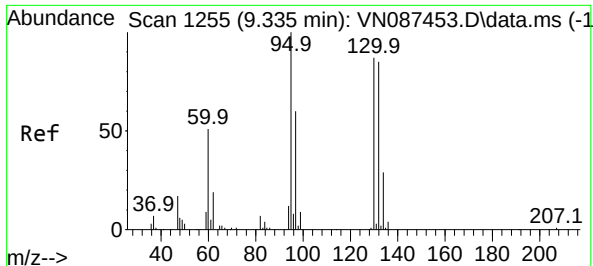


#36  
1,2-Dichloroethane  
Concen: 45.169 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 393795 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 7.5   | 6.6   | 9.8    |



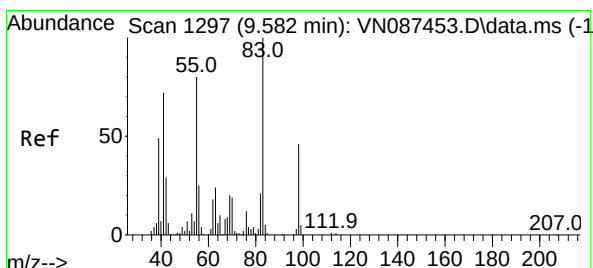
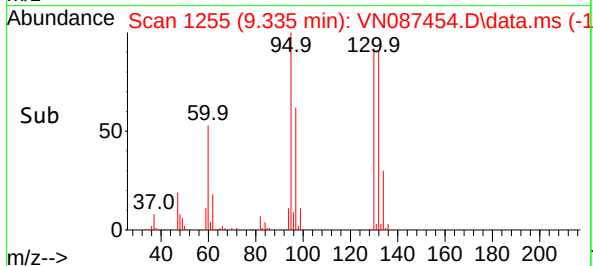
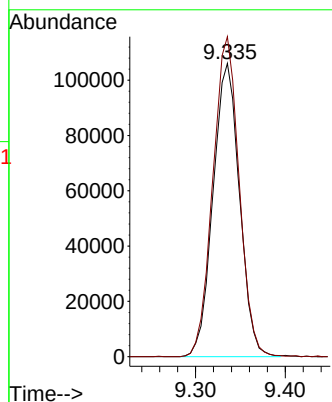
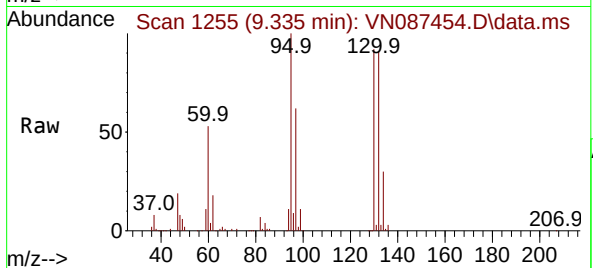




#37  
 Trichloroethene  
 Concen: 45.693 ug/l  
 RT: 9.335 min Scan# 1255  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

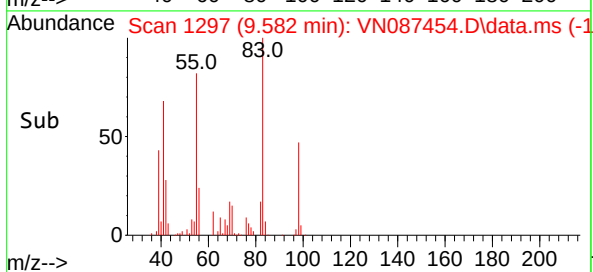
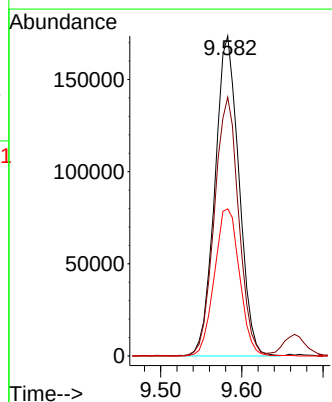
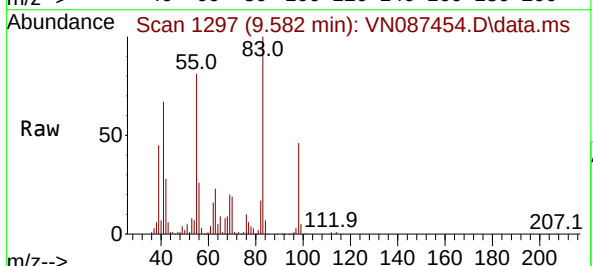
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

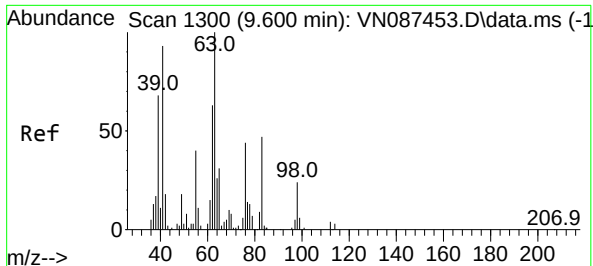
Tgt Ion:130 Resp: 217082  
 Ion Ratio Lower Upper  
 130 100  
 95 109.1 91.4 137.2



#38  
 Methylcyclohexane  
 Concen: 45.072 ug/l  
 RT: 9.582 min Scan# 1297  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Tgt Ion: 83 Resp: 357253  
 Ion Ratio Lower Upper  
 83 100  
 55 81.7 41.2 123.6  
 98 48.1 23.3 69.9

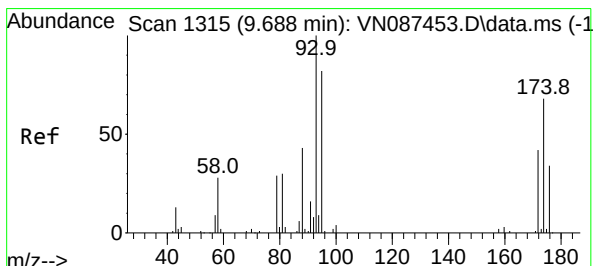
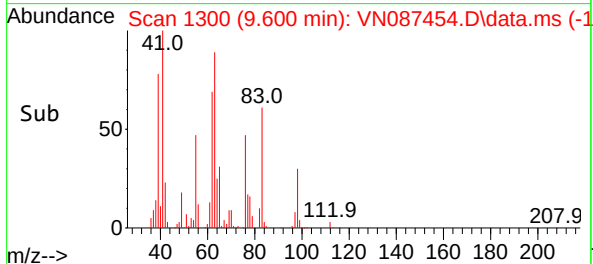
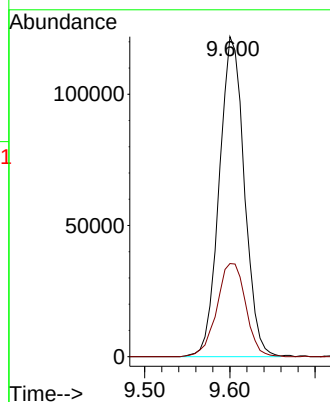
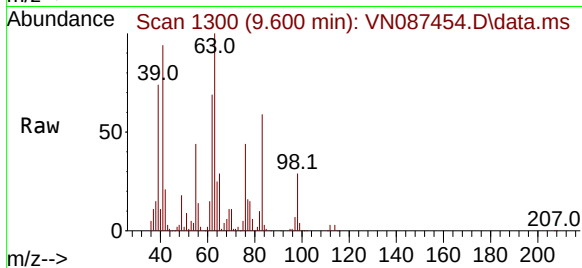




#39  
1,2-Dichloropropane  
Concen: 45.142 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

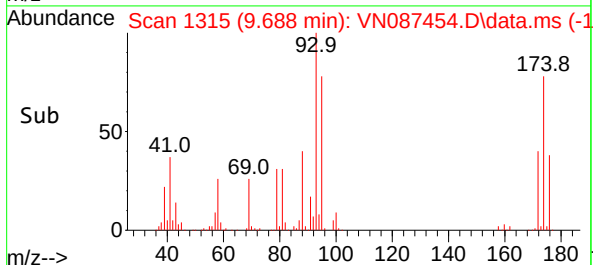
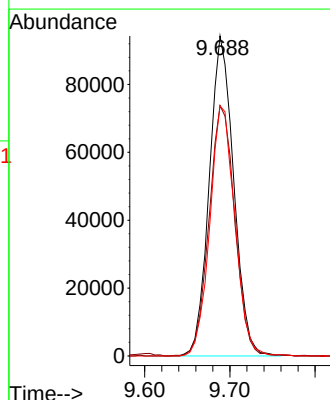
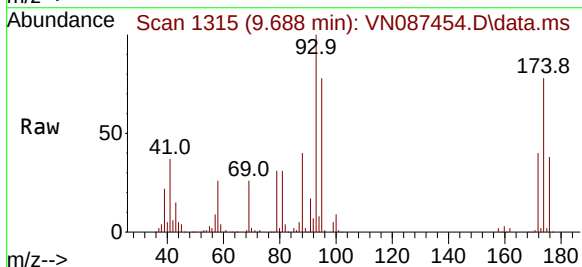
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

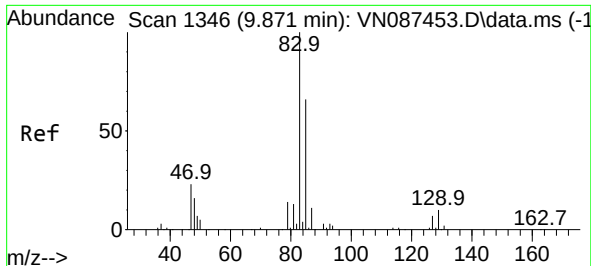
Tgt Ion: 63 Resp: 249627  
Ion Ratio Lower Upper  
63 100  
65 29.1 24.6 36.8



#40  
Dibromomethane  
Concen: 45.278 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 93 Resp: 187857  
Ion Ratio Lower Upper  
93 100  
95 82.1 0.0 161.6  
174 79.8 0.0 151.4

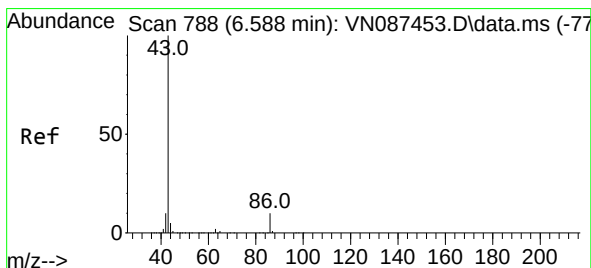
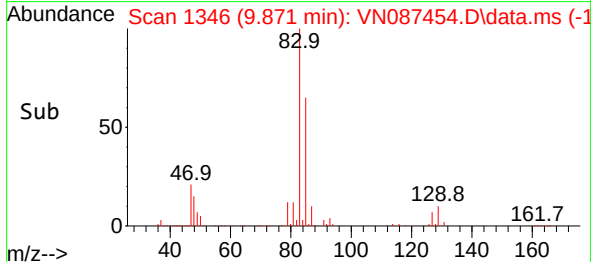
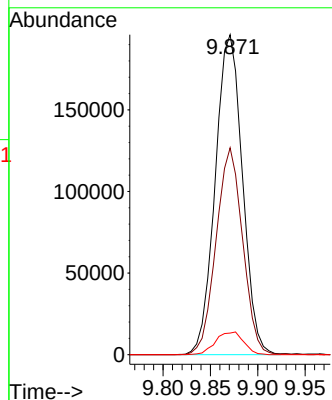
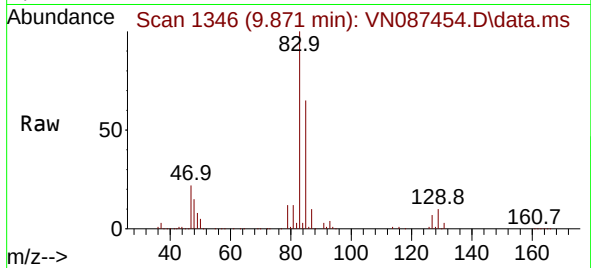




#41  
Bromodichloromethane  
Concen: 45.463 ug/l  
RT: 9.871 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

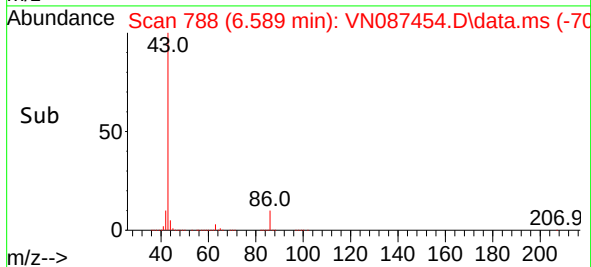
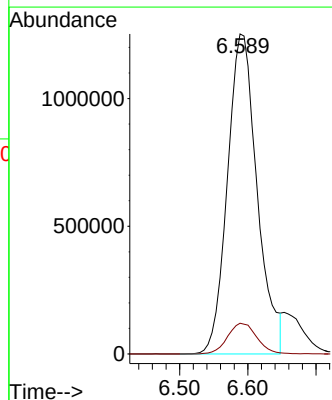
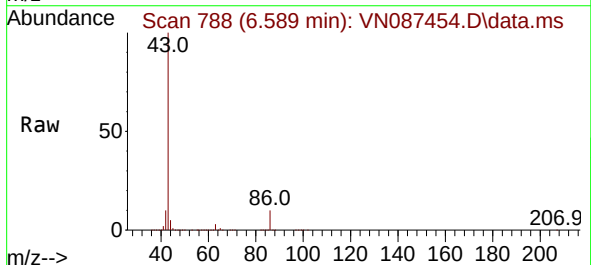
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

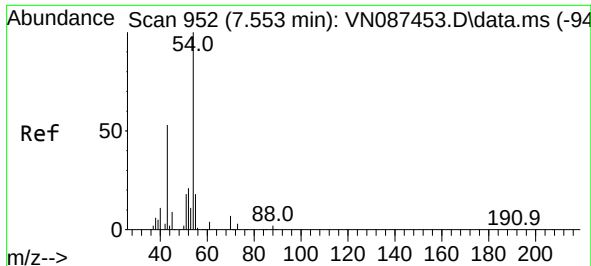
Tgt Ion: 83 Resp: 391953  
Ion Ratio Lower Upper  
83 100  
85 64.6 52.9 79.3  
127 6.8 5.8 8.6



#42  
Vinyl Acetate  
Concen: 228.920 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 3796699  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9

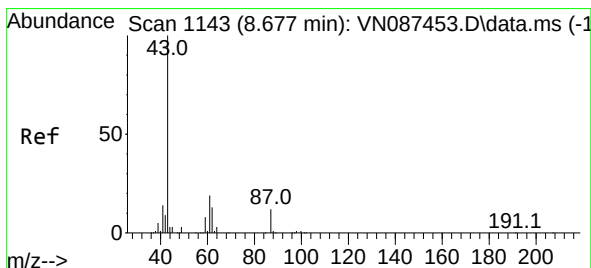
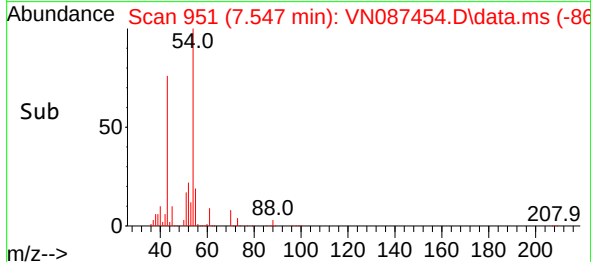
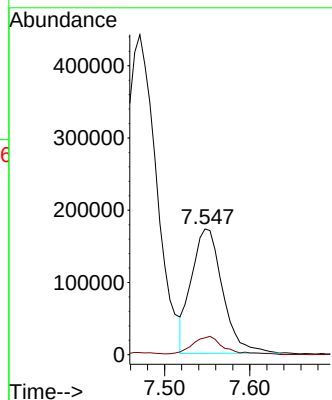
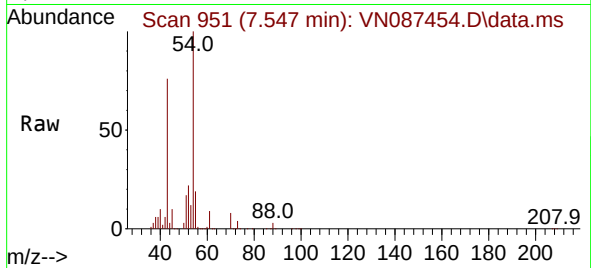




#43  
Ethyl Acetate  
Concen: 45.558 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

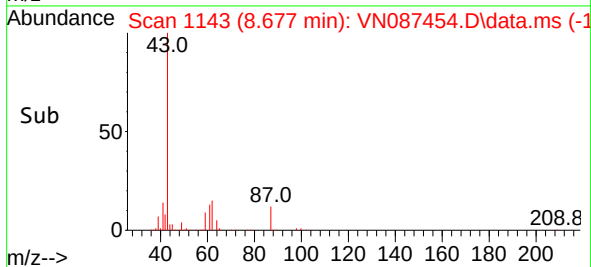
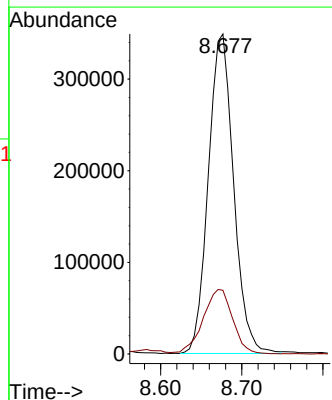
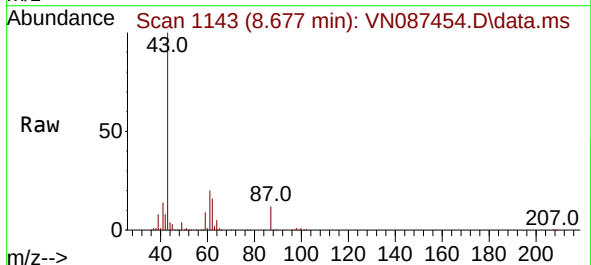
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

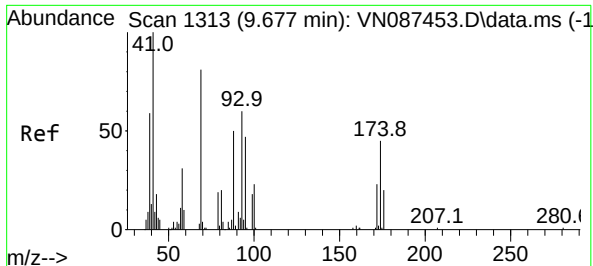
Tgt Ion: 43 Resp: 436753  
Ion Ratio Lower Upper  
43 100  
45 12.4 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 45.813 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 755567  
Ion Ratio Lower Upper  
43 100  
61 23.6 18.6 28.0

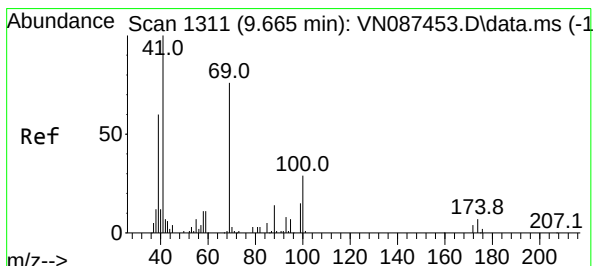
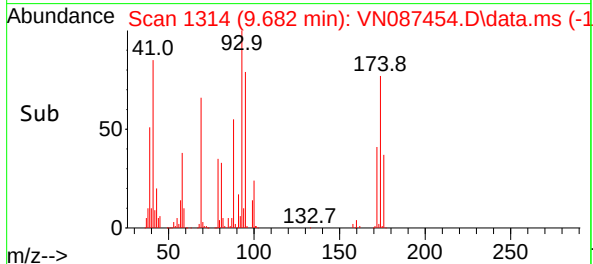
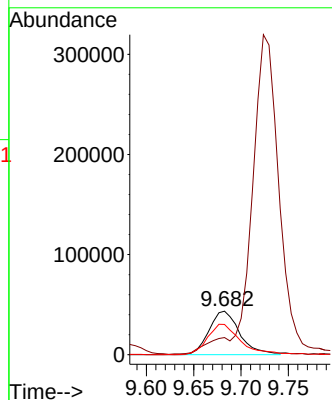
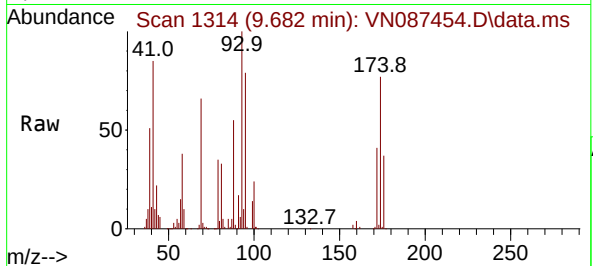




#45  
1,4-Dioxane  
Concen: 932.433 ug/l  
RT: 9.682 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

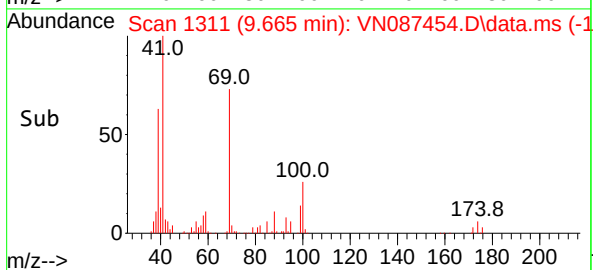
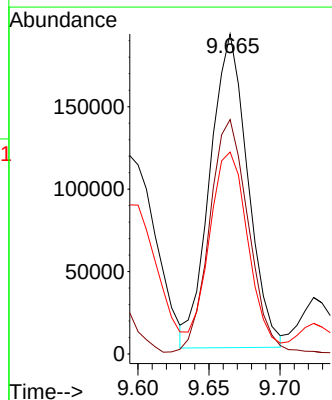
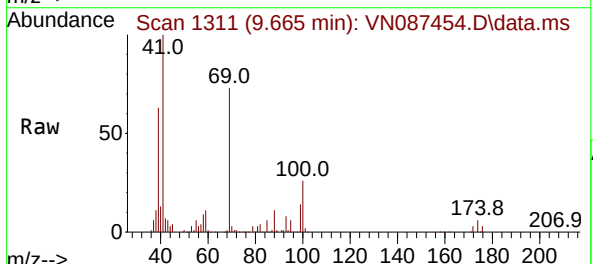
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

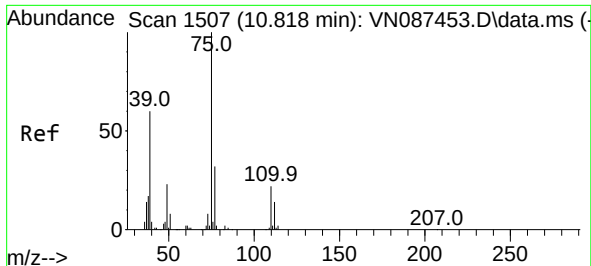
Tgt Ion: 88 Resp: 98035  
Ion Ratio Lower Upper  
88 100  
43 31.4 24.1 36.1  
58 74.1 57.2 85.8



#46  
Methyl methacrylate  
Concen: 45.128 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 41 Resp: 351323  
Ion Ratio Lower Upper  
41 100  
69 76.2 37.1 111.5  
39 63.3 30.7 92.1





#48

t-1,3-Dichloropropene

Concen: 46.014 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

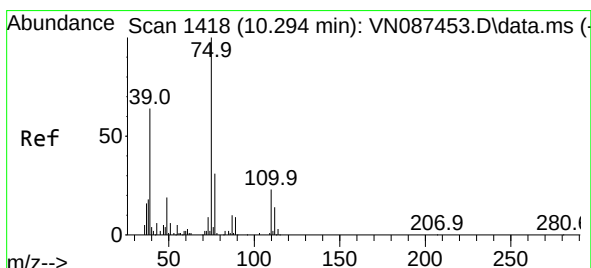
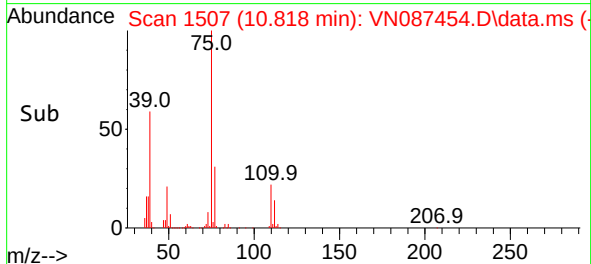
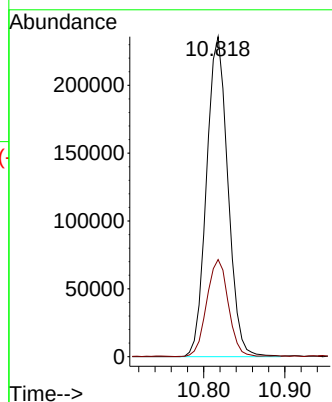
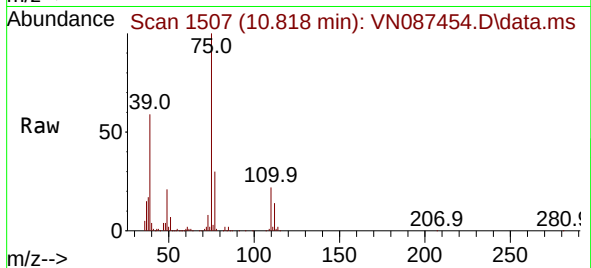
VSTDIC050

Tgt Ion: 75 Resp: 431587

Ion Ratio Lower Upper

75 100

77 30.3 25.3 37.9



#49

cis-1,3-Dichloropropene

Concen: 46.521 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

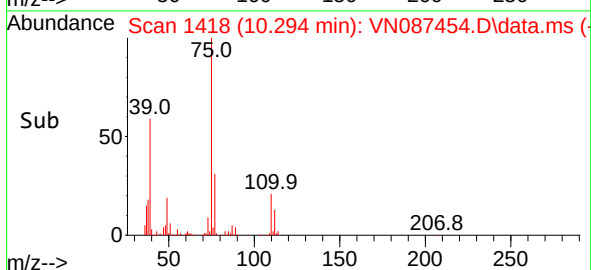
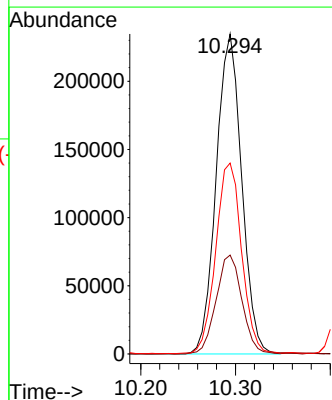
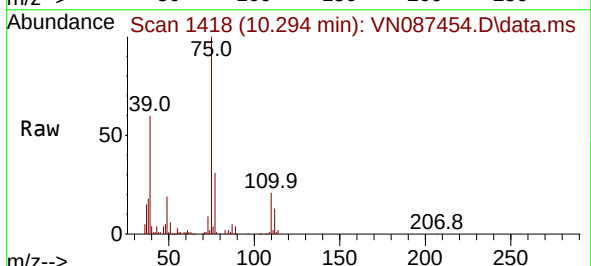
Tgt Ion: 75 Resp: 439121

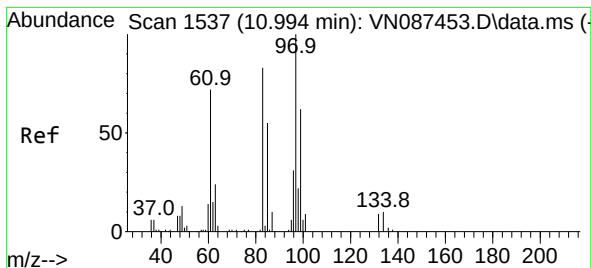
Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

39 59.4 51.5 77.3



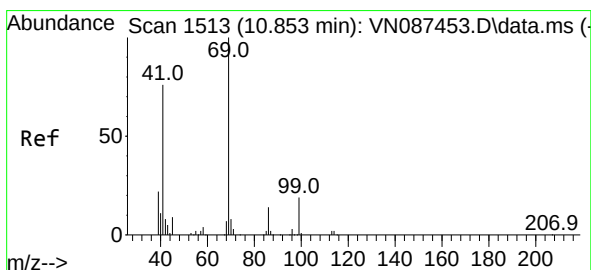
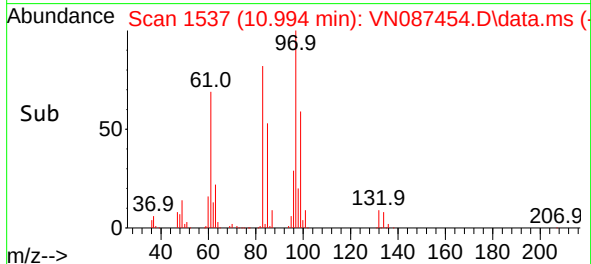
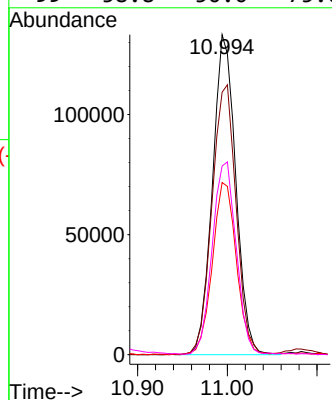
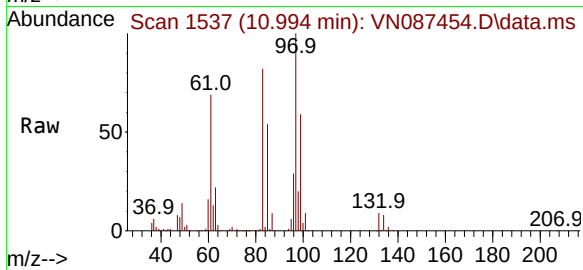


#50  
1,1,2-Trichloroethane  
Concen: 45.786 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

Tgt Ion: 97 Resp: 240010

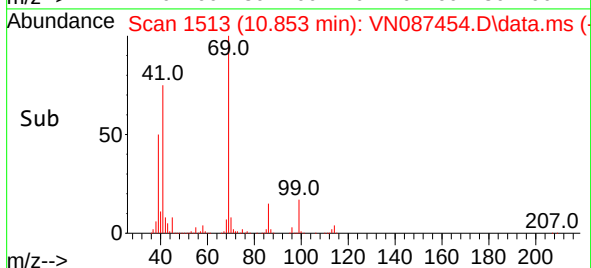
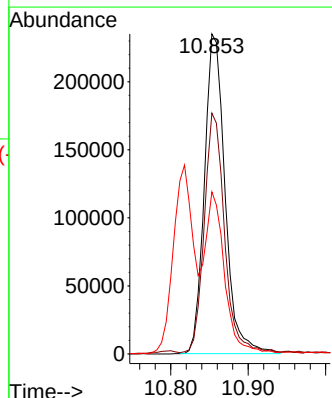
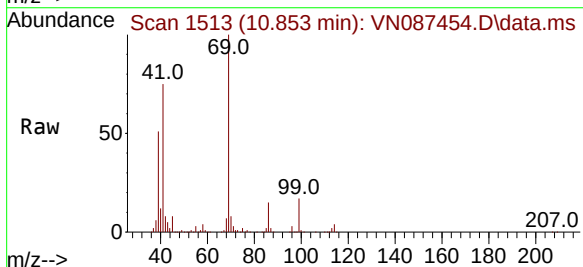
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 82.0  | 66.2  | 99.2  |
| 85  | 53.7  | 43.9  | 65.9  |
| 99  | 58.8  | 50.0  | 75.0  |

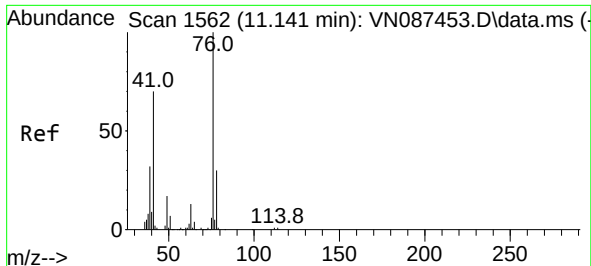


#51  
Ethyl methacrylate  
Concen: 47.164 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 69 Resp: 435415

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 74.9  | 38.0  | 114.1 |
| 39  | 50.1  | 23.2  | 69.5  |





#52

1,3-Dichloropropane

Concen: 45.941 ug/l

RT: 11.141 min Scan# 1562

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

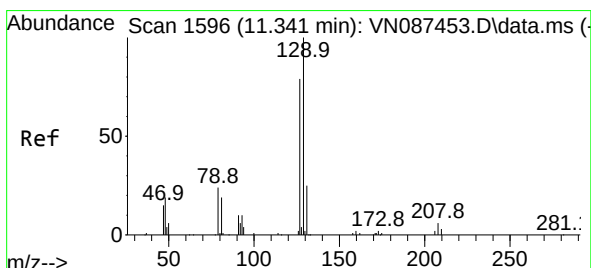
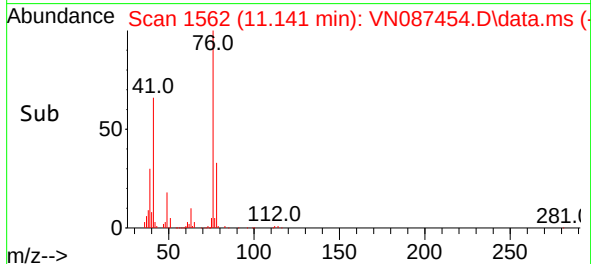
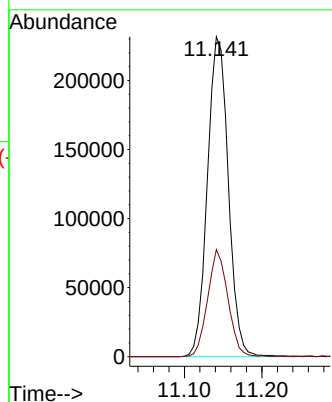
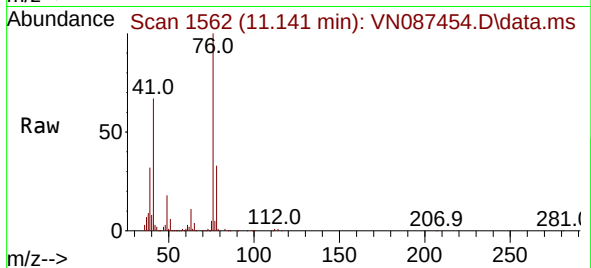
VSTDICC050

Tgt Ion: 76 Resp: 433869

Ion Ratio Lower Upper

76 100

78 32.3 0.0 63.0



#53

Dibromochloromethane

Concen: 46.341 ug/l

RT: 11.335 min Scan# 1595

Delta R.T. -0.006 min

Lab File: VN087454.D

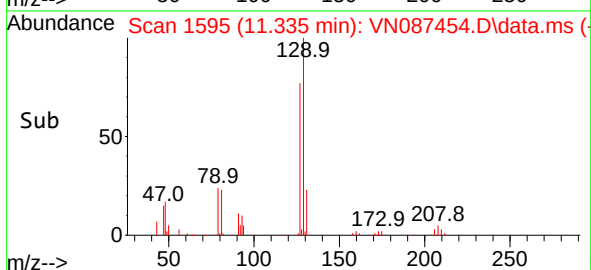
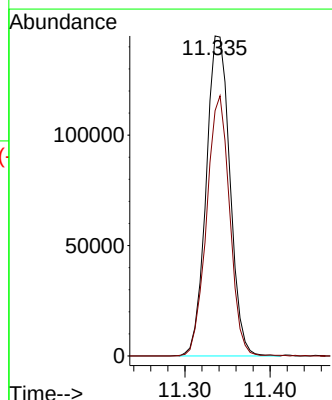
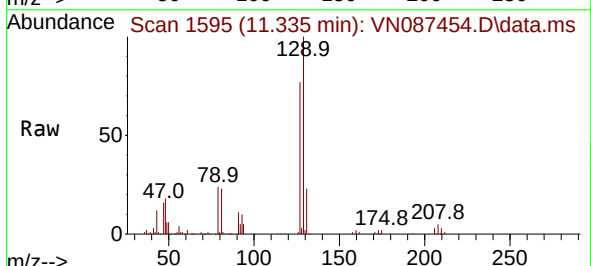
Acq: 05 Aug 2025 14:19

Tgt Ion: 129 Resp: 280542

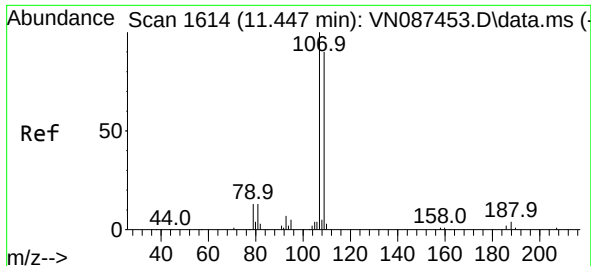
Ion Ratio Lower Upper

129 100

127 78.5 39.1 117.3



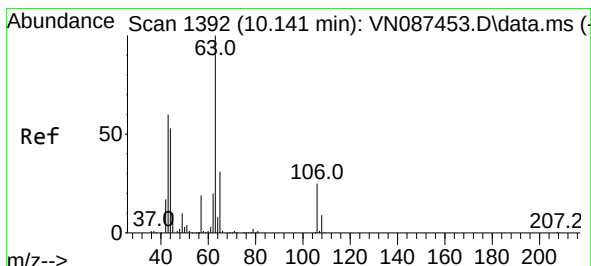
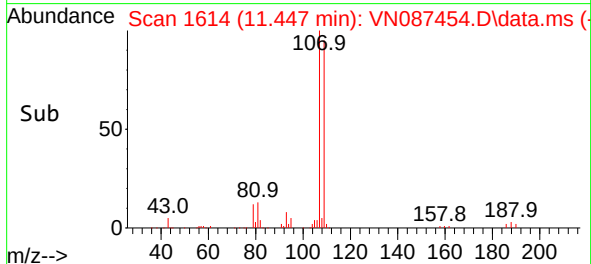
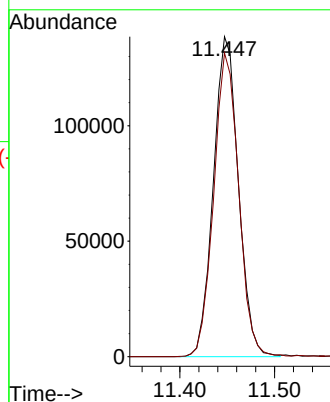
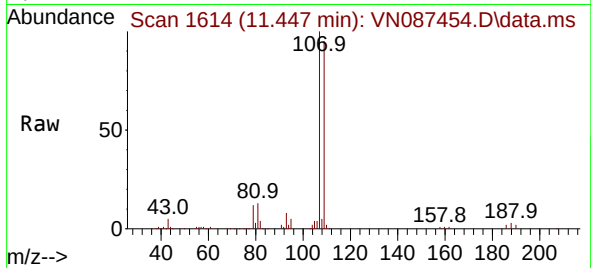




#54  
1,2-Dibromoethane  
Concen: 45.688 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

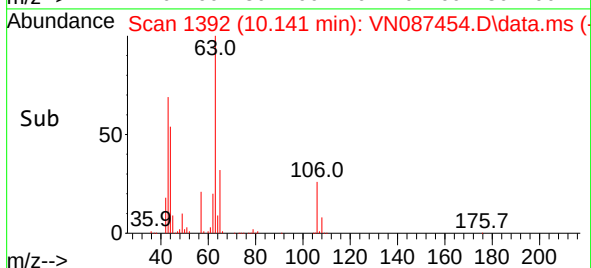
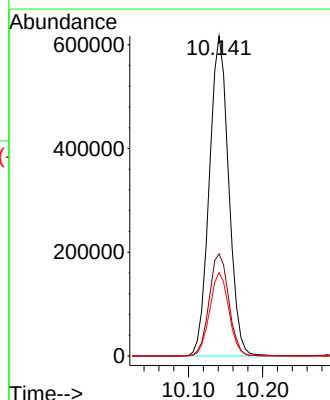
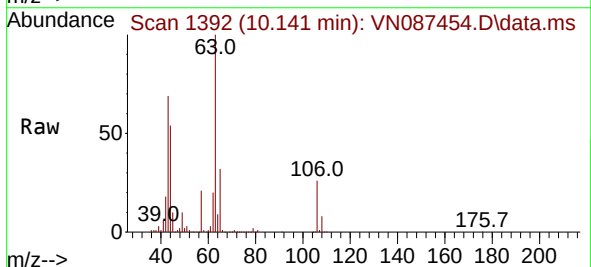
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

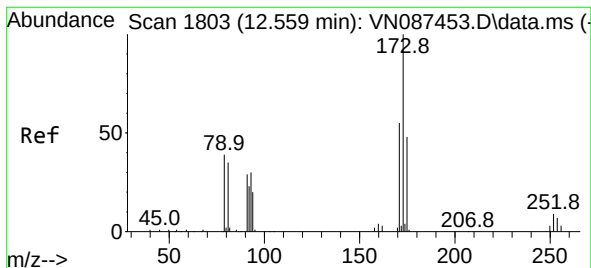
Tgt Ion:107 Resp: 254243  
Ion Ratio Lower Upper  
107 100  
109 94.8 74.2 111.4



#55  
2-Chloroethyl vinyl ether  
Concen: 230.244 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 63 Resp: 1118997  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 25.7 20.7 31.1

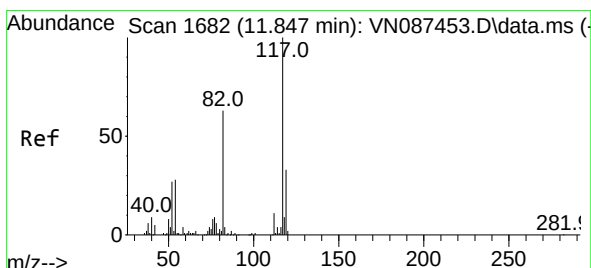
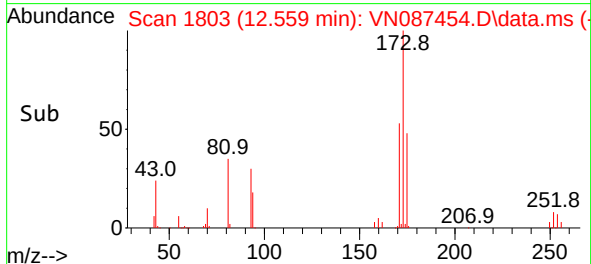
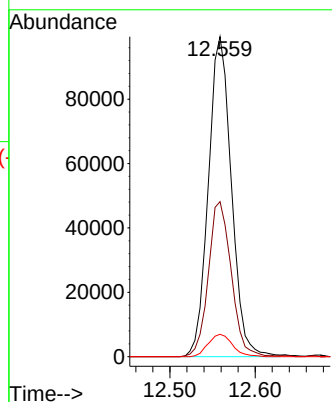
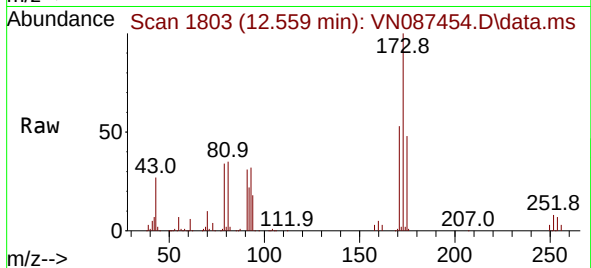




#56  
Bromoform  
Concen: 46.656 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

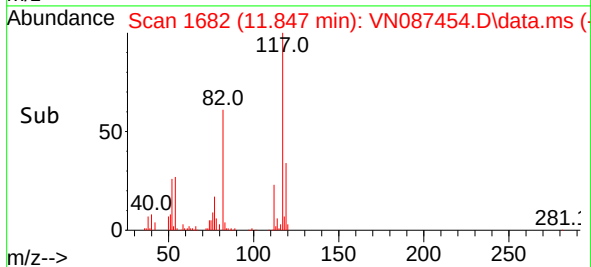
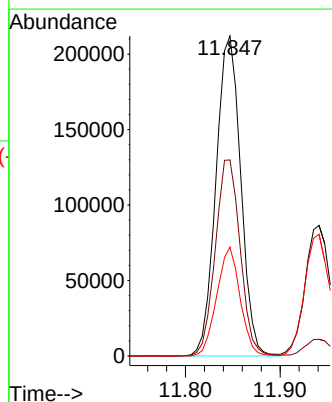
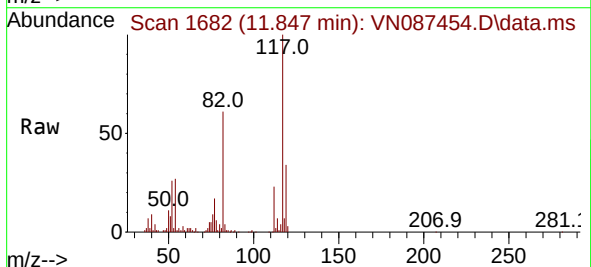
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

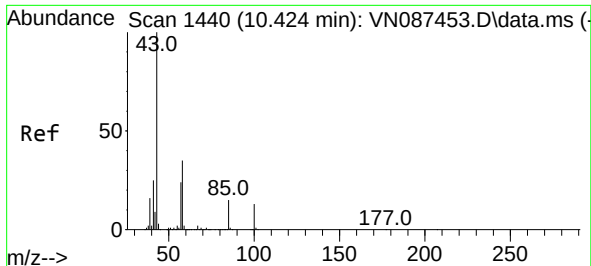
Tgt Ion:173 Resp: 186820  
Ion Ratio Lower Upper  
173 100  
175 48.1 38.8 58.2  
254 7.4 3.9 5.9#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:117 Resp: 385657  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.2 73.8  
119 32.2 25.7 38.5

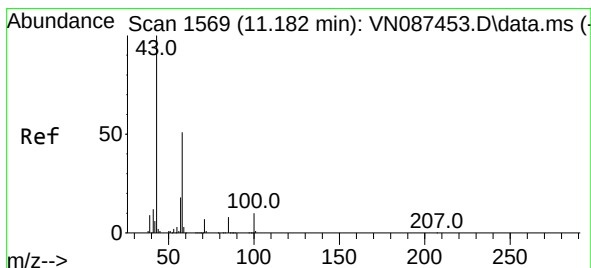
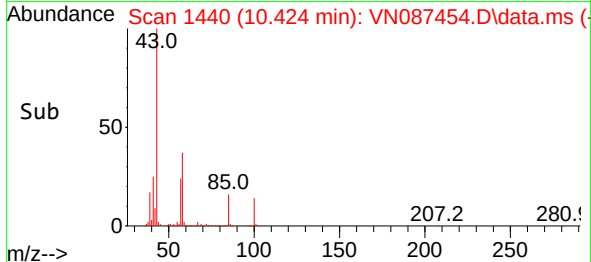
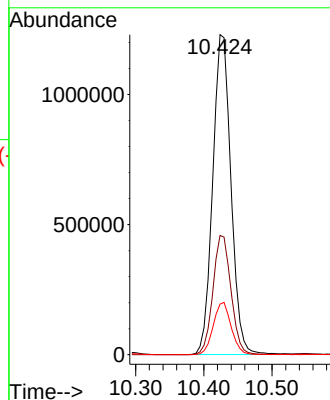
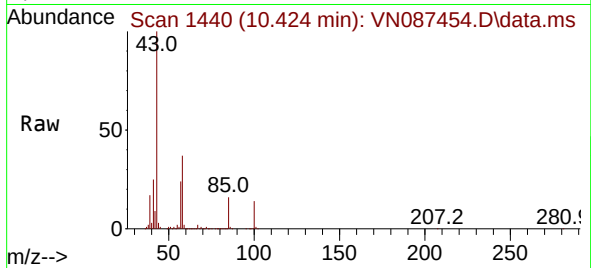




#58  
4-Methyl-2-Pentanone  
Concen: 230.864 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

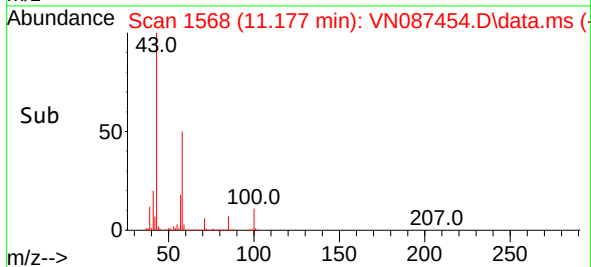
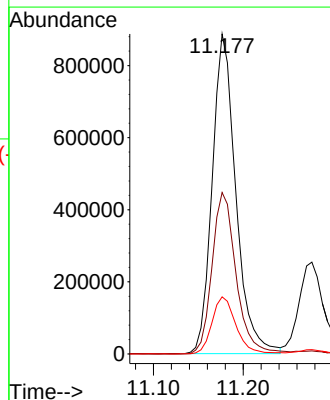
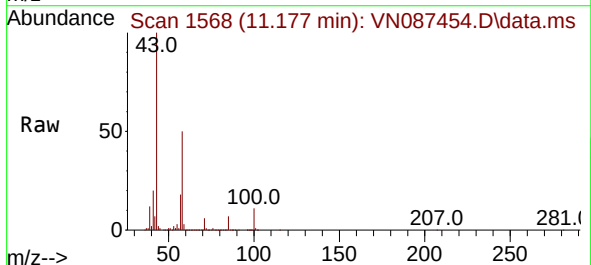
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

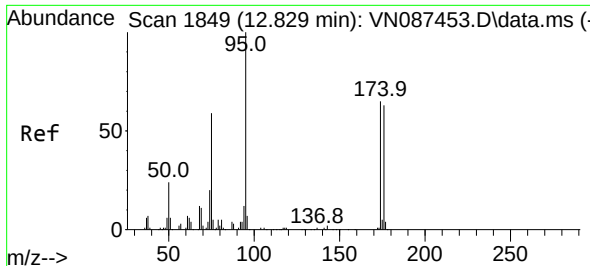
Tgt Ion: 43 Resp: 2290380  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.0 43.6  
85 16.1 12.7 19.1



#59  
2-Hexanone  
Concen: 240.439 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 1620747  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.1 14.6 21.8

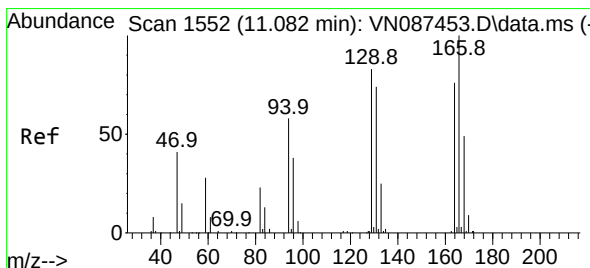
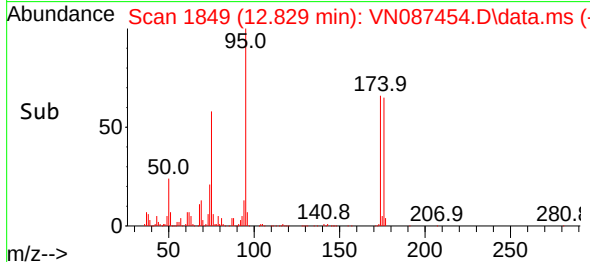
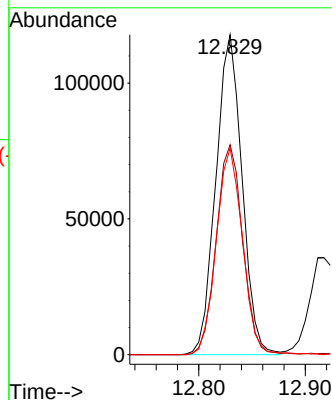
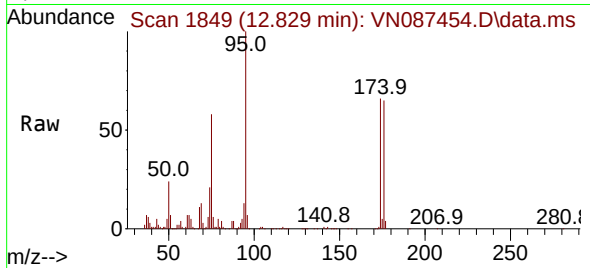




#60  
4-Bromofluorobenzene  
Concen: 30.325 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

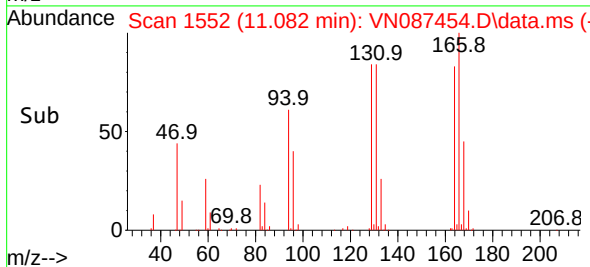
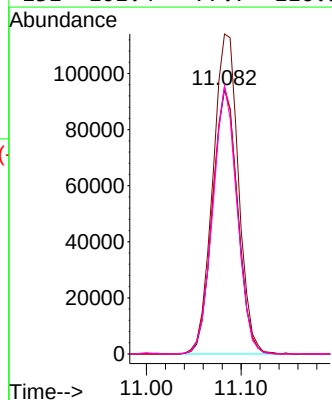
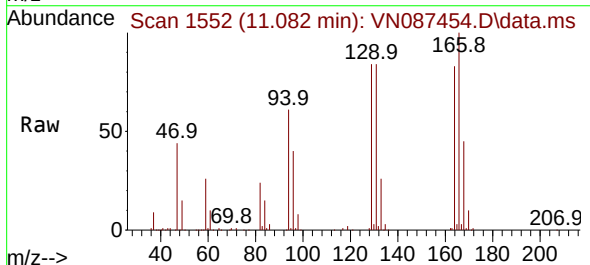
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

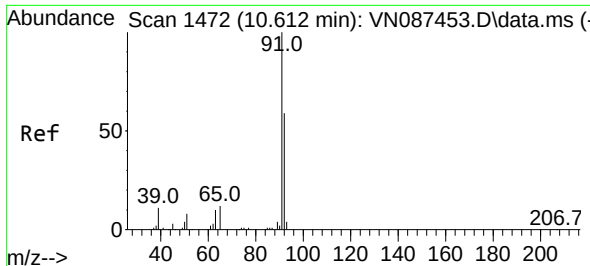
Tgt Ion: 95 Resp: 201264  
Ion Ratio Lower Upper  
95 100  
174 66.0 52.3 78.5  
176 64.6 49.8 74.8



#61  
Tetrachloroethene  
Concen: 46.177 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:164 Resp: 173500  
Ion Ratio Lower Upper  
164 100  
166 121.2 105.4 158.0  
129 101.5 87.7 131.5  
131 101.4 77.7 116.5

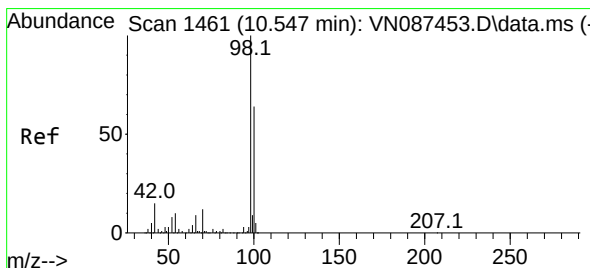
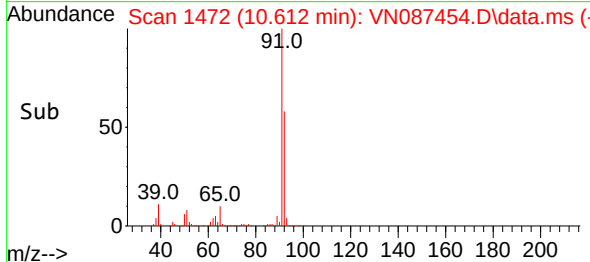
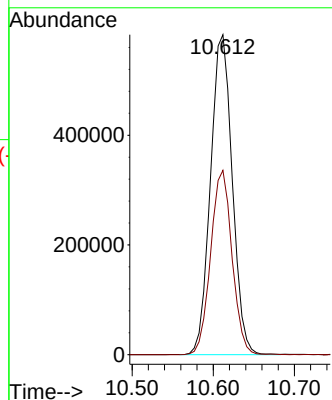
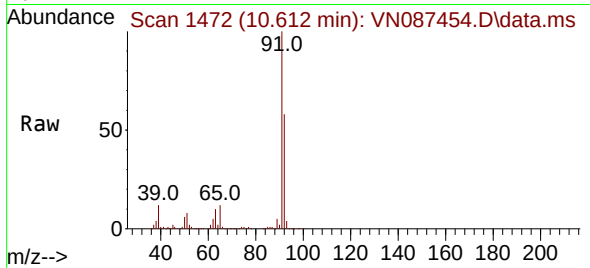




#62  
Toluene  
Concen: 45.620 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

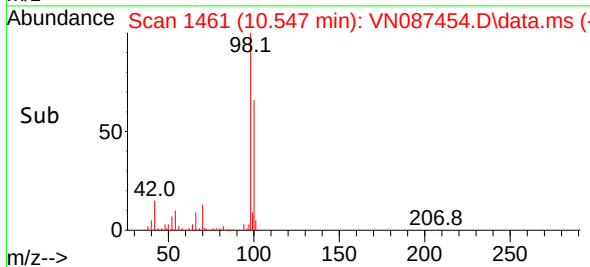
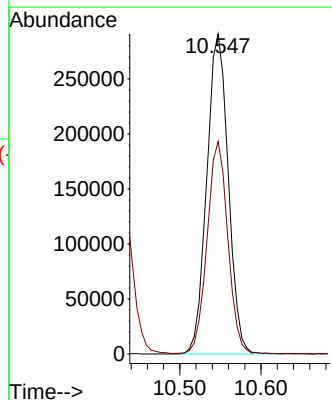
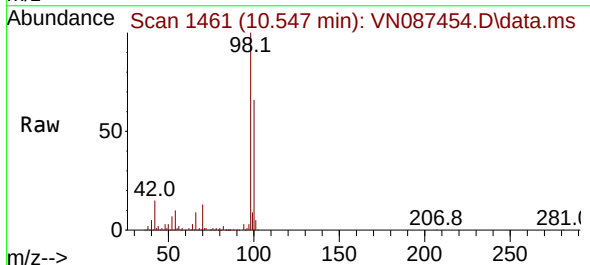
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

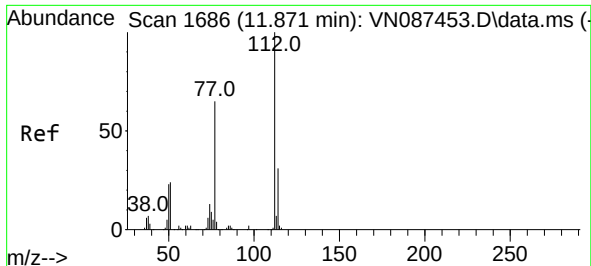
Tgt Ion: 91 Resp: 1085878  
Ion Ratio Lower Upper  
91 100  
92 56.5 45.8 68.6



#63  
Toluene-d8  
Concen: 30.124 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 98 Resp: 534559  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.5 75.7

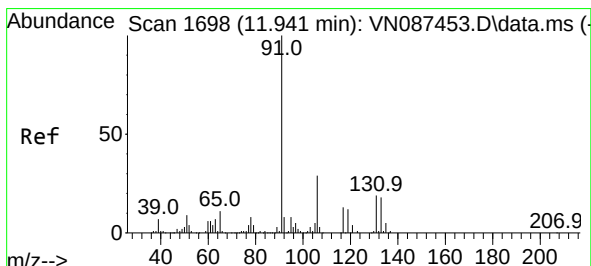
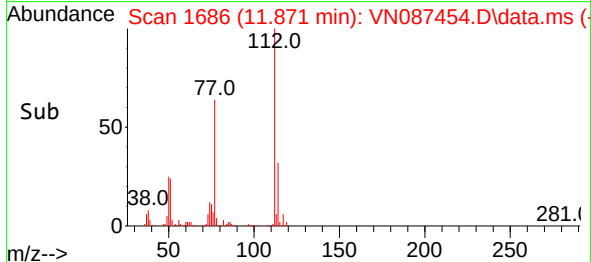
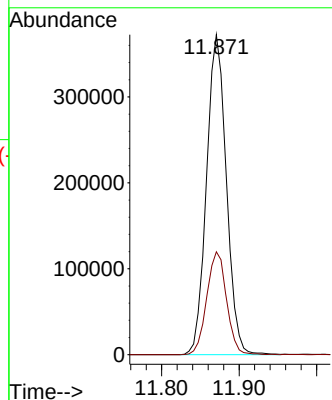
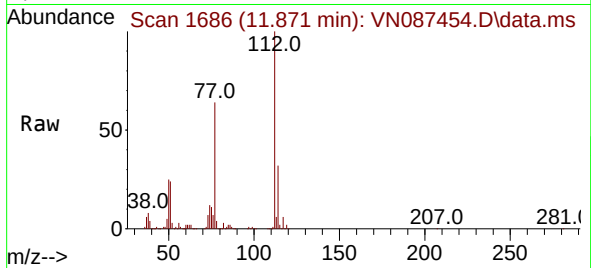




#64  
Chlorobenzene  
Concen: 45.283 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

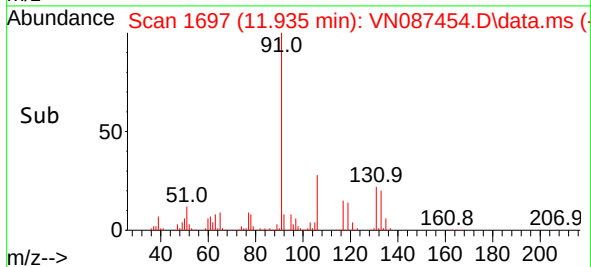
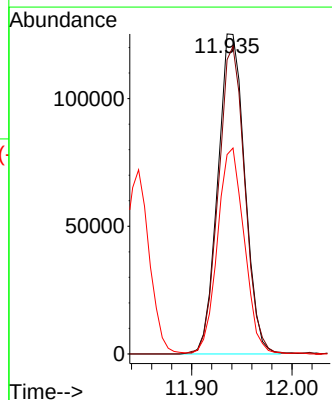
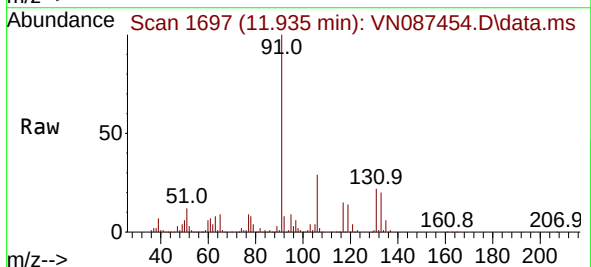
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

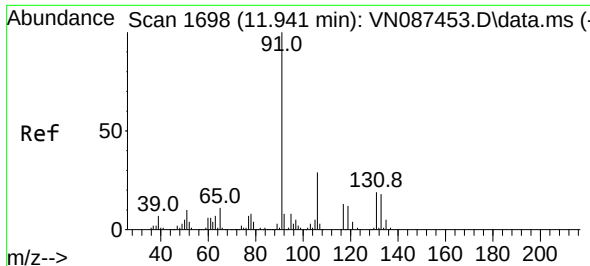
Tgt Ion:112 Resp: 662306  
Ion Ratio Lower Upper  
112 100  
114 32.1 24.7 37.1



#65  
1,1,1,2-Tetrachloroethane  
Concen: 45.493 ug/l  
RT: 11.935 min Scan# 1697  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:131 Resp: 233942  
Ion Ratio Lower Upper  
131 100  
133 94.4 0.0 189.8  
119 63.8 0.0 133.2

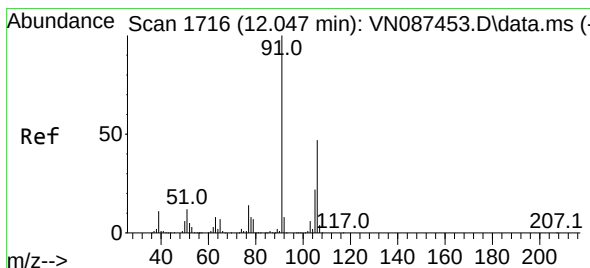
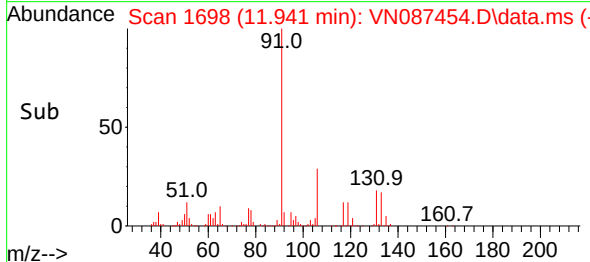
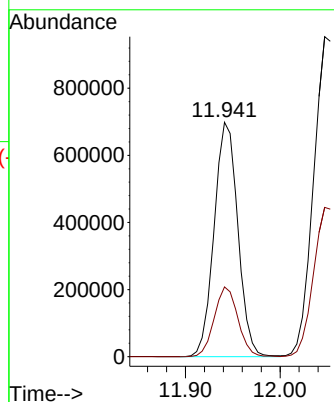
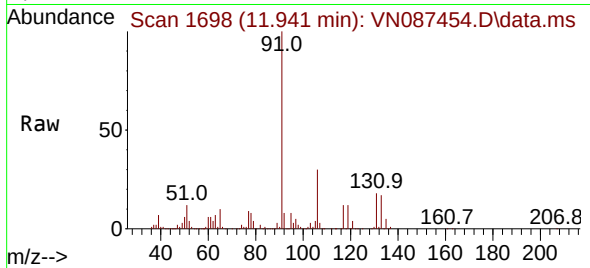




#66  
Ethyl Benzene  
Concen: 45.832 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

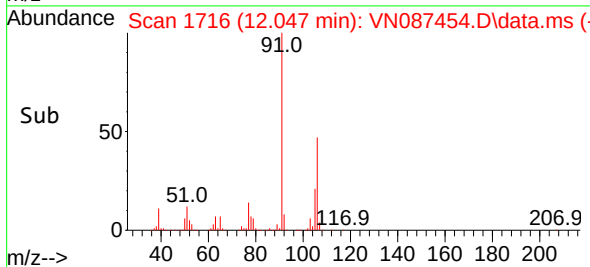
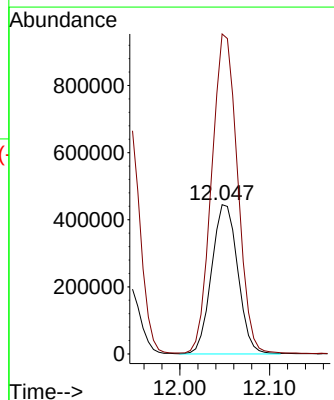
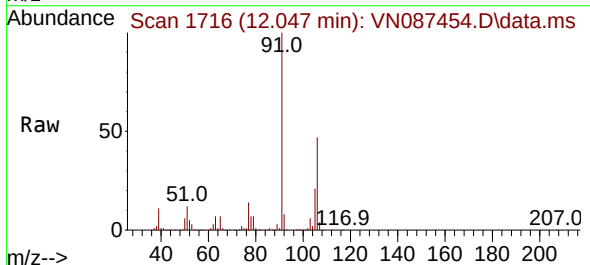
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

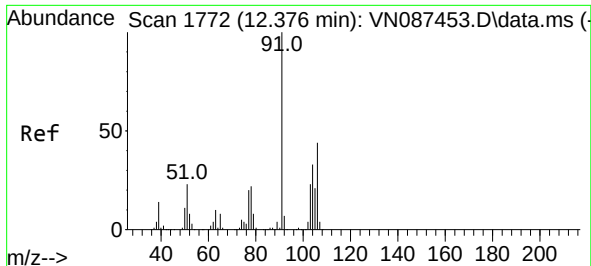
Tgt Ion: 91 Resp: 1215937  
Ion Ratio Lower Upper  
91 100  
106 29.8 22.9 34.3



#67  
m/p-Xylenes  
Concen: 92.702 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:106 Resp: 902756  
Ion Ratio Lower Upper  
106 100  
91 212.6 174.2 261.2

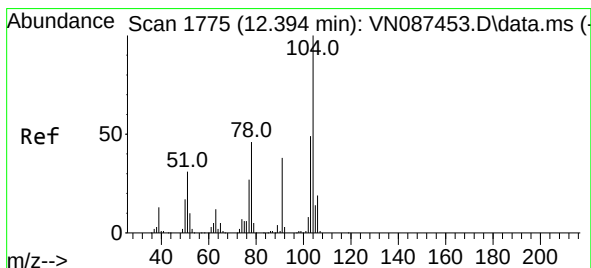
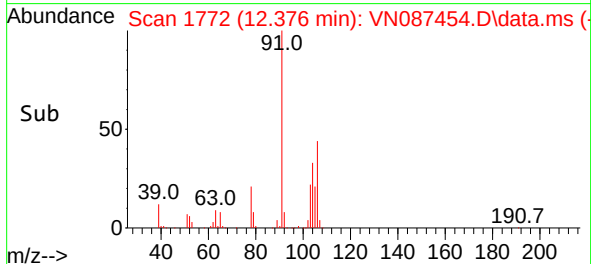
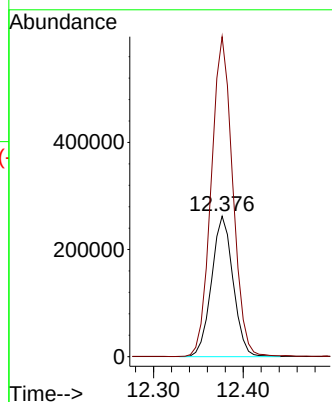
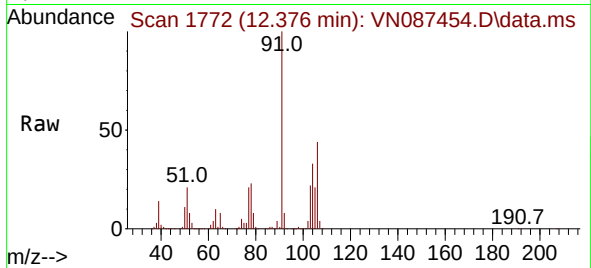




#68  
o-Xylene  
Concen: 45.667 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

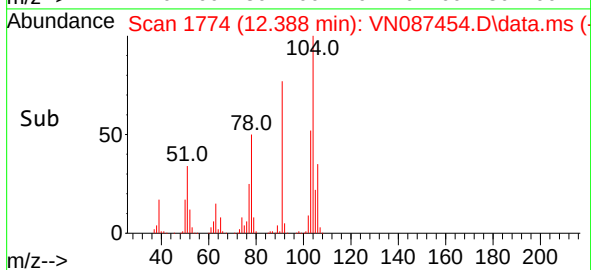
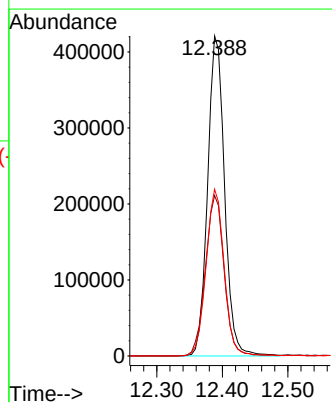
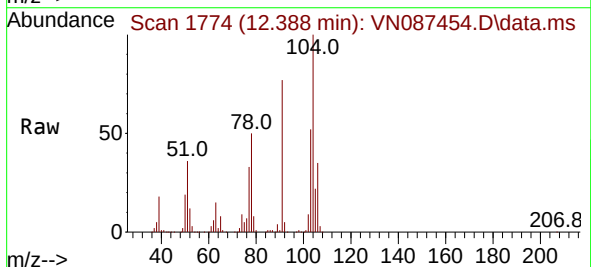
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:106 Resp: 437515  
Ion Ratio Lower Upper  
106 100  
91 227.1 114.5 343.5

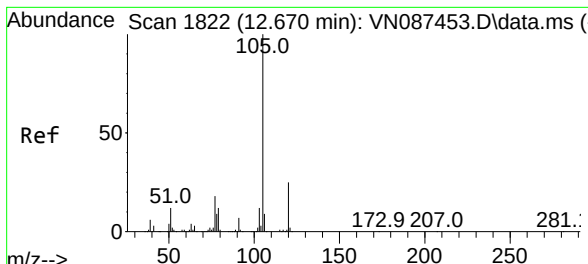


#69  
Styrene  
Concen: 46.428 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:104 Resp: 759493  
Ion Ratio Lower Upper  
104 100  
78 55.1 43.8 65.8  
103 55.3 43.1 64.7



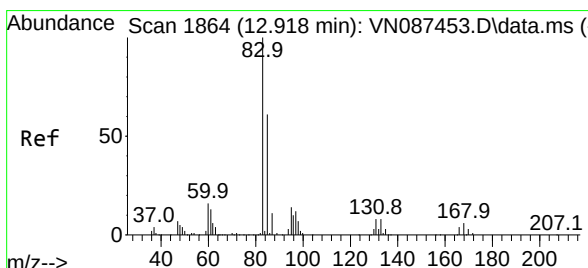
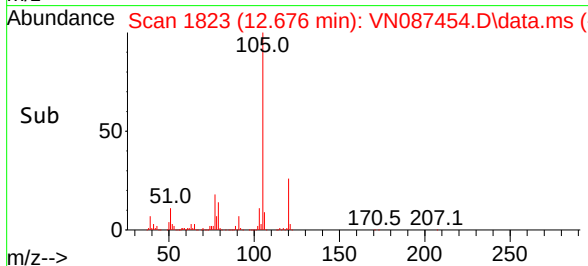
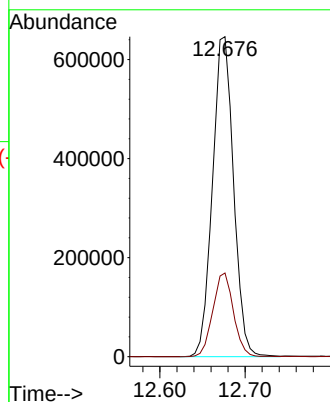
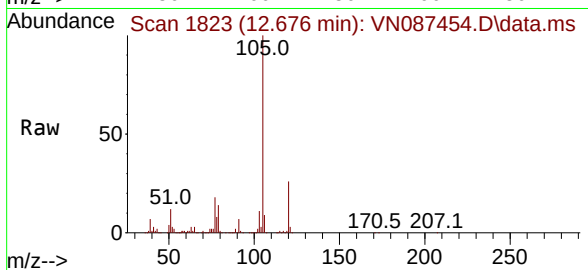




#70  
Isopropylbenzene  
Concen: 45.666 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

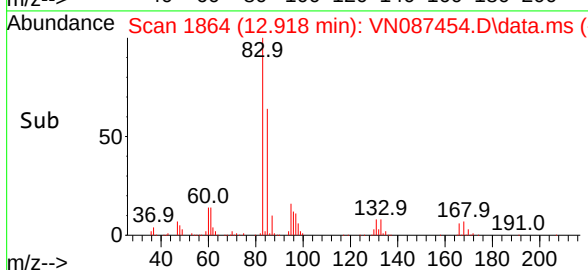
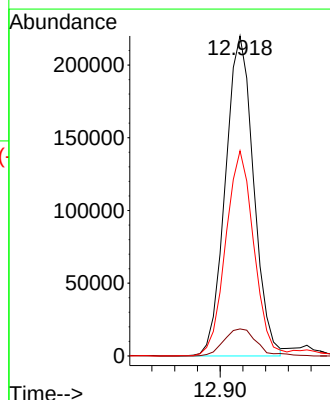
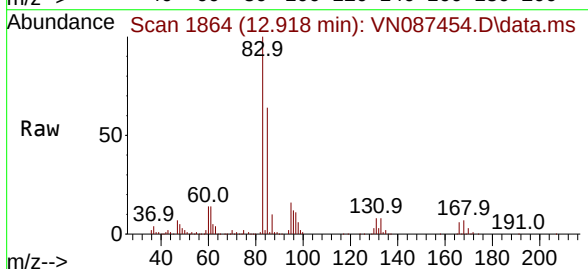
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

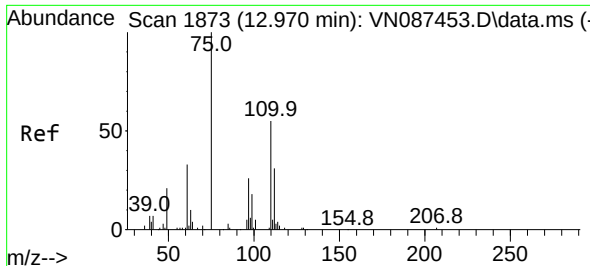
Tgt Ion:105 Resp: 1111500  
Ion Ratio Lower Upper  
105 100  
120 25.5 17.5 32.5



#71  
1,1,2,2-Tetrachloroethane  
Concen: 45.508 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 83 Resp: 379527  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 64.0 31.7 95.1

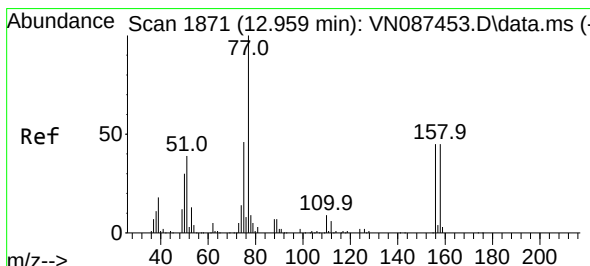
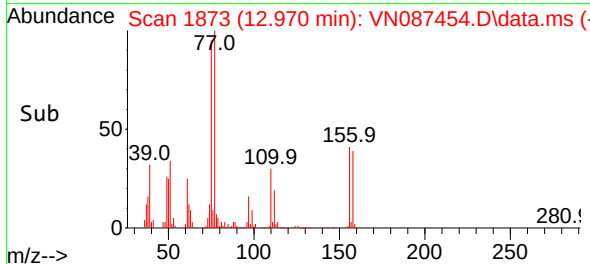
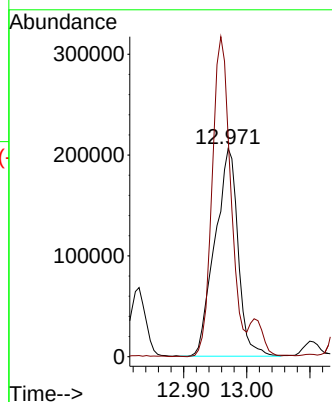
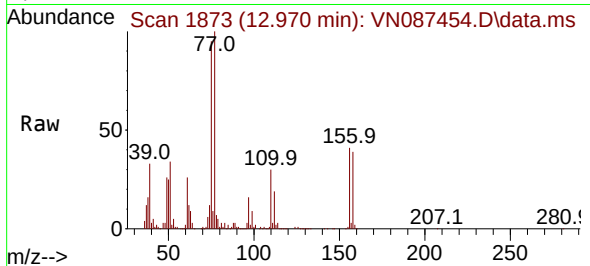




#72  
1,2,3-Trichloropropane  
Concen: 61.267 ug/l  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

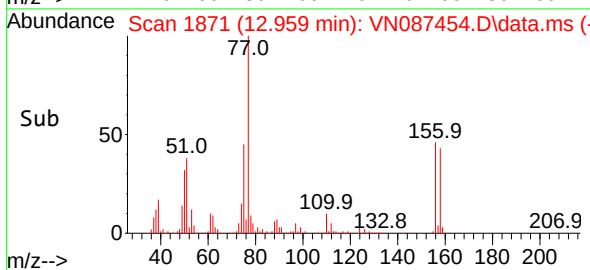
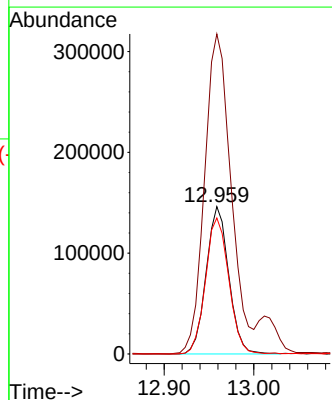
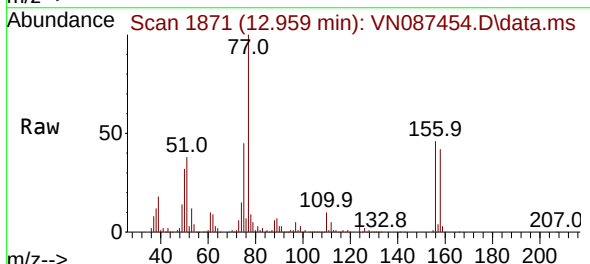
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

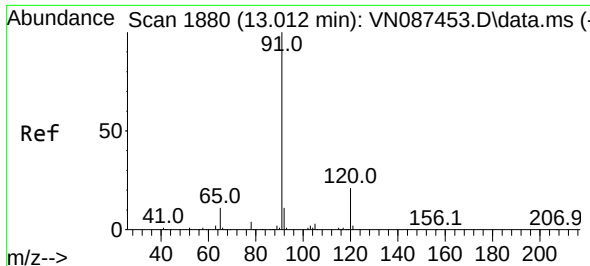
Tgt Ion: 75 Resp: 525215  
Ion Ratio Lower Upper  
75 100  
77 123.6 0.0 385.0



#73  
Bromobenzene  
Concen: 45.330 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion:156 Resp: 255773  
Ion Ratio Lower Upper  
156 100  
77 253.9 0.0 506.6  
158 94.9 0.0 193.6

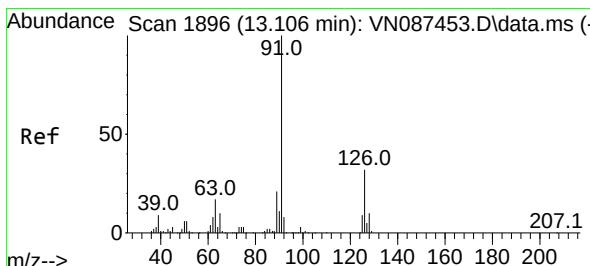
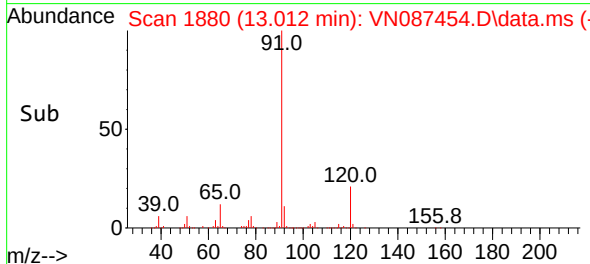
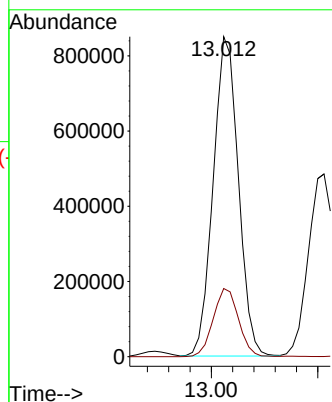
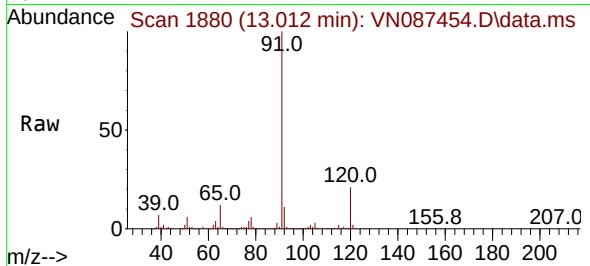




#74  
n-propylbenzene  
Concen: 45.781 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

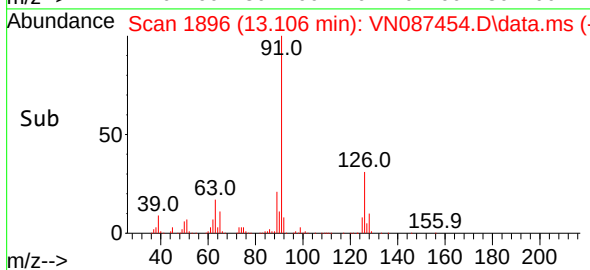
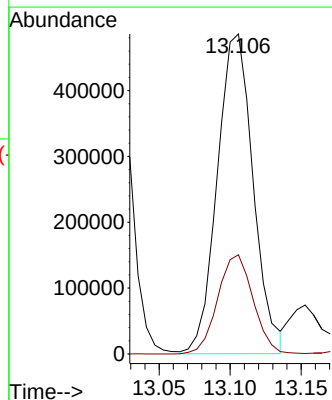
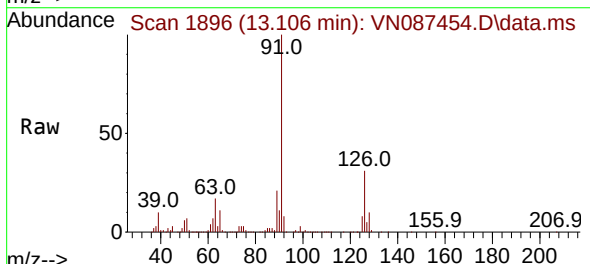
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

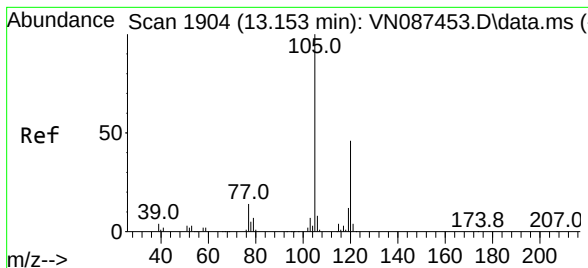
Tgt Ion: 91 Resp: 1391658  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 41.8



#75  
2-Chlorotoluene  
Concen: 45.659 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 853763  
Ion Ratio Lower Upper  
91 100  
126 30.6 0.0 60.4

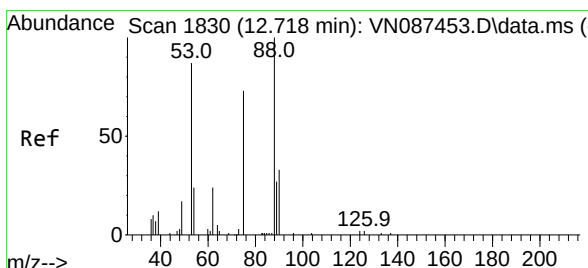
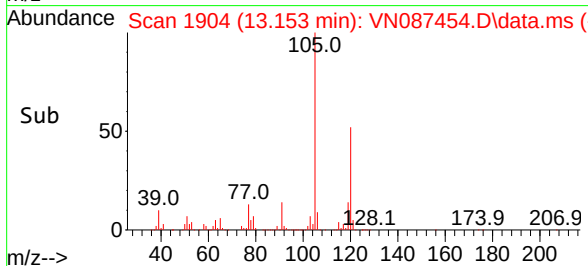
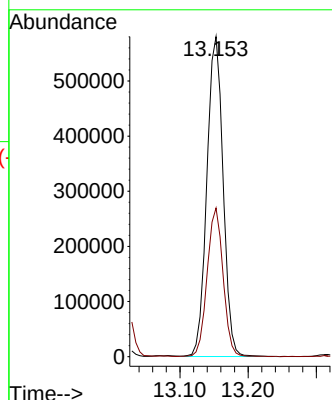
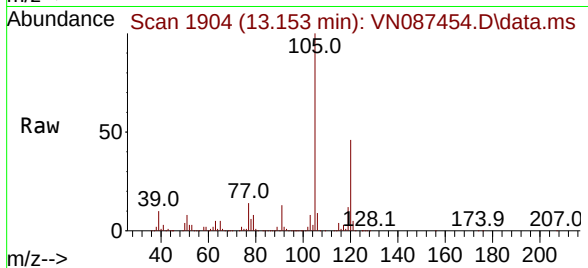




#76  
1,3,5-Trimethylbenzene  
Concen: 46.118 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

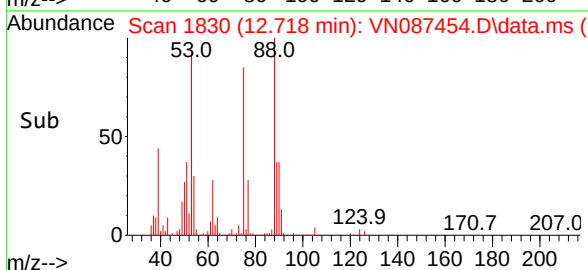
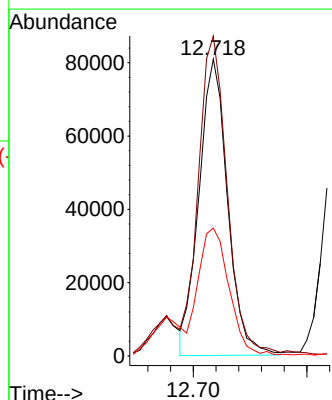
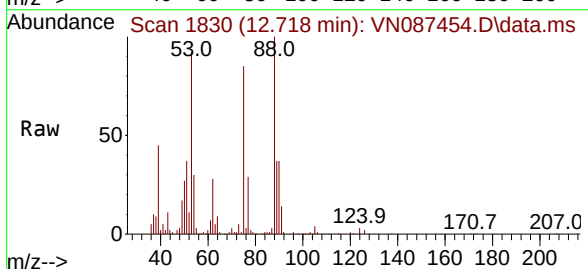
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

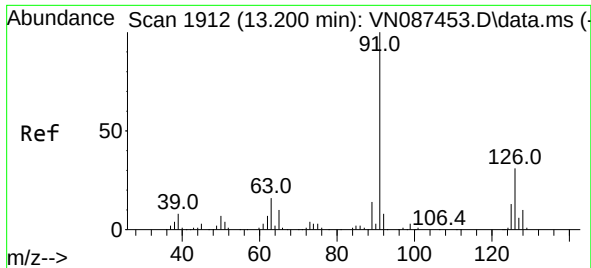
Tgt Ion:105 Resp: 961117  
Ion Ratio Lower Upper  
105 100  
120 45.8 0.0 91.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 48.111 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 75 Resp: 141496  
Ion Ratio Lower Upper  
75 100  
53 107.7 59.0 176.8  
89 43.0 22.1 66.5

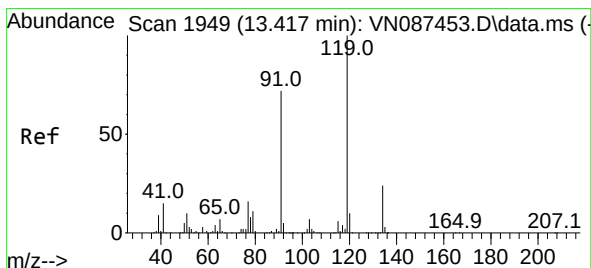
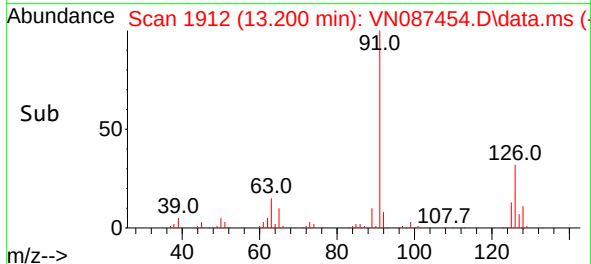
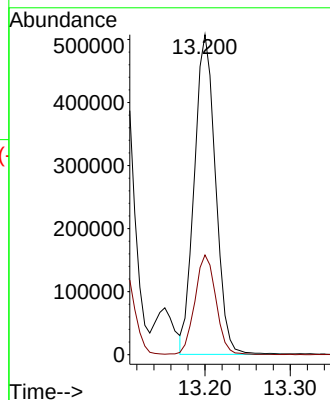
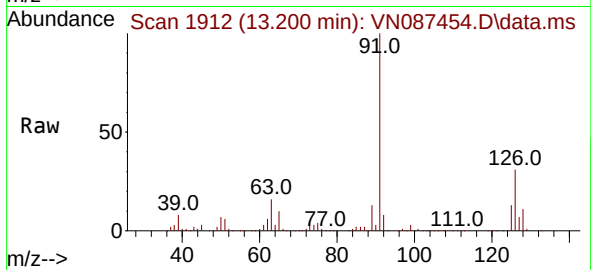




#78  
4-Chlorotoluene  
Concen: 46.192 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

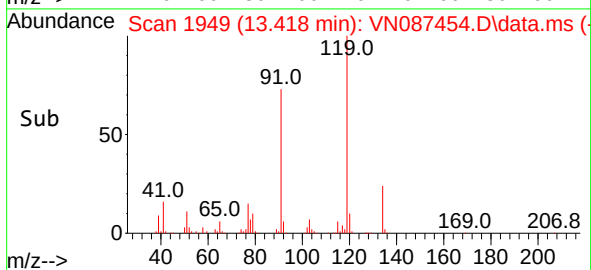
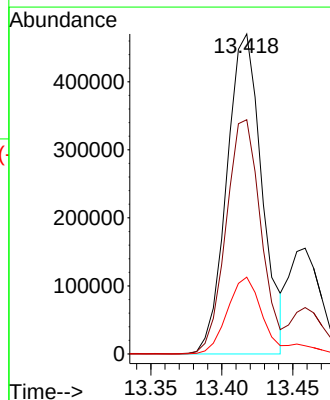
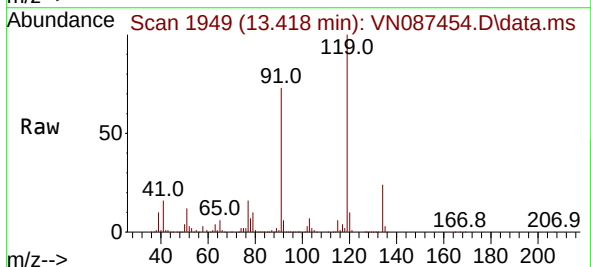
Instrument :  
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ClientSampleId :  
VSTDICC050

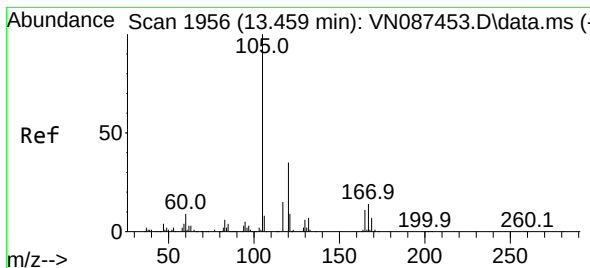
Tgt Ion: 91 Resp: 875292  
Ion Ratio Lower Upper  
91 100  
126 31.1 0.0 63.2



#79  
tert-butylbenzene  
Concen: 46.311 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 119 Resp: 813723  
Ion Ratio Lower Upper  
119 100  
91 72.0 0.0 141.6  
134 23.1 0.0 45.6





#80

1,2,4-Trimethylbenzene

Concen: 46.640 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

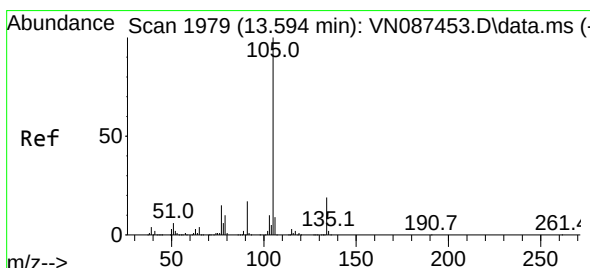
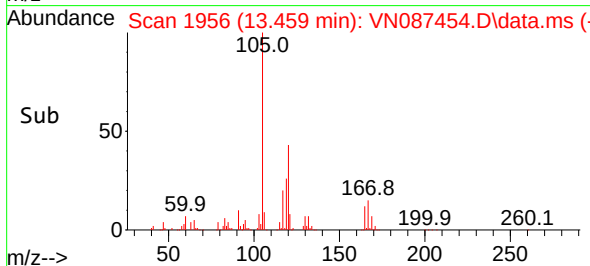
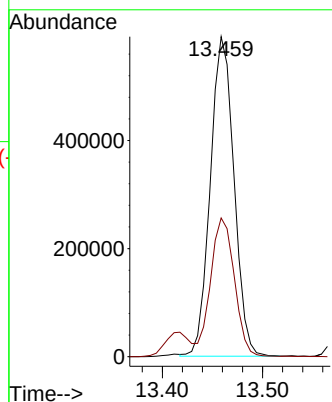
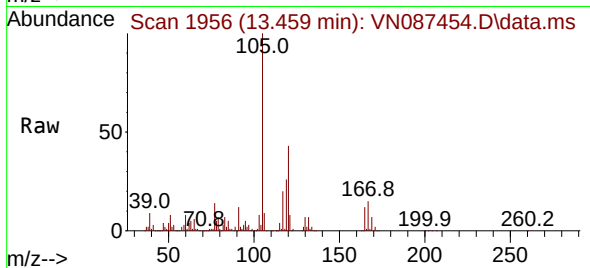
VSTDIC050

Tgt Ion:105 Resp: 971243

Ion Ratio Lower Upper

105 100

120 43.9 0.0 87.2



#81

sec-Butylbenzene

Concen: 46.465 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN087454.D

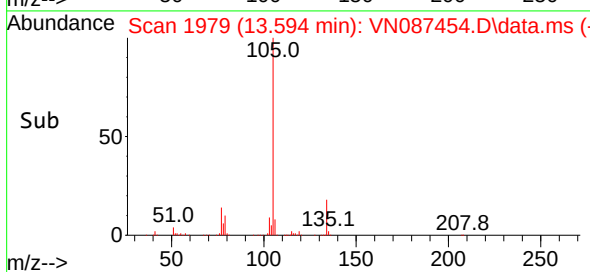
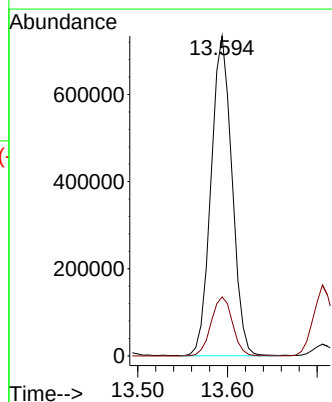
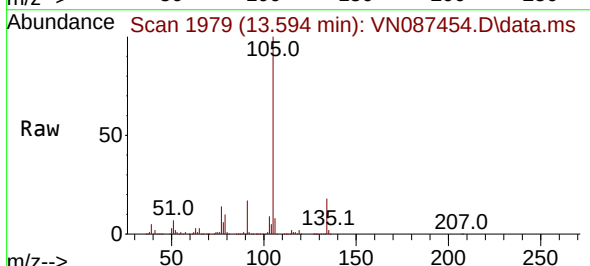
Acq: 05 Aug 2025 14:19

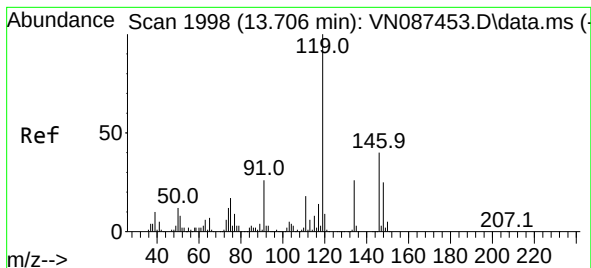
Tgt Ion:105 Resp: 1188558

Ion Ratio Lower Upper

105 100

134 18.8 0.0 37.6





#82

p-Isopropyltoluene

Concen: 46.251 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

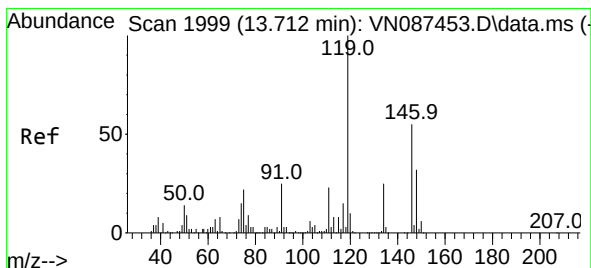
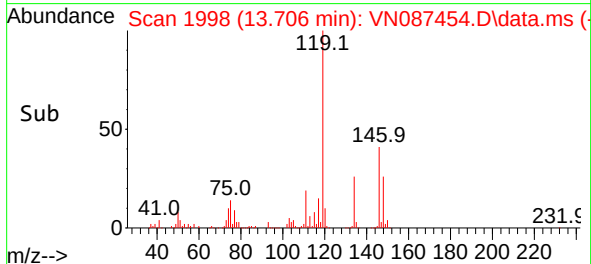
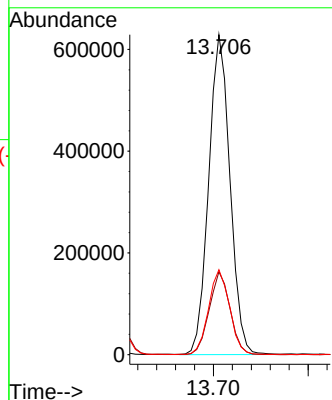
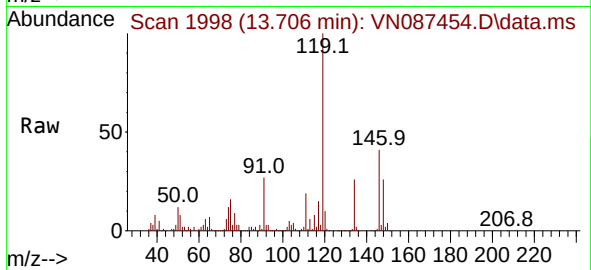
Tgt Ion:119 Resp: 982310

Ion Ratio Lower Upper

119 100

134 25.3 0.0 51.4

91 26.1 0.0 52.0



#83

1,3-Dichlorobenzene

Concen: 46.509 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

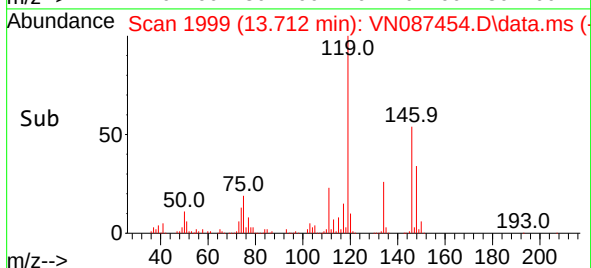
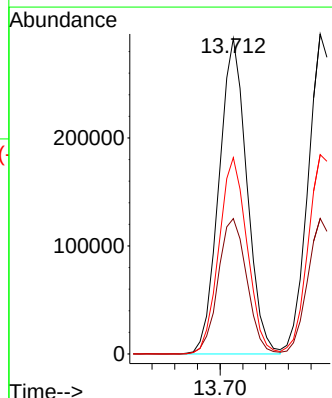
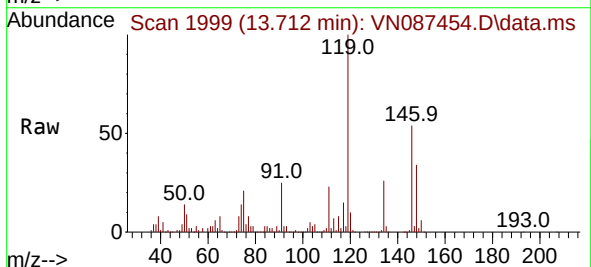
Tgt Ion:146 Resp: 499720

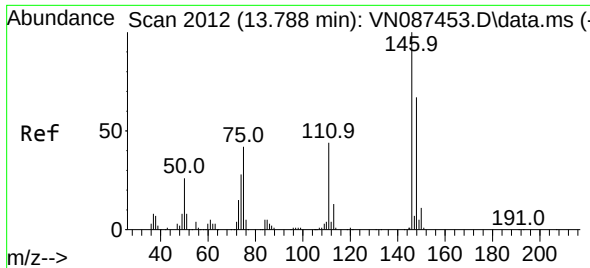
Ion Ratio Lower Upper

146 100

111 44.0 21.9 65.5

148 62.7 31.3 93.9

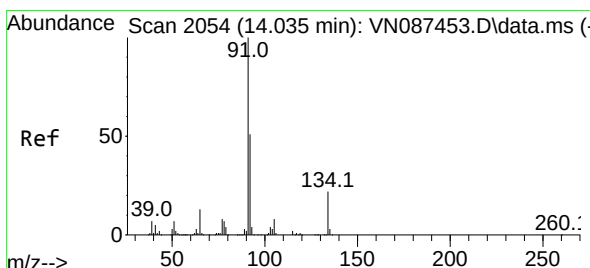
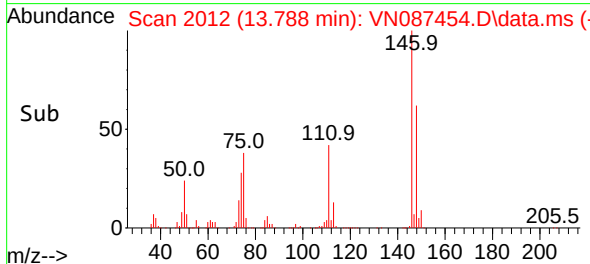
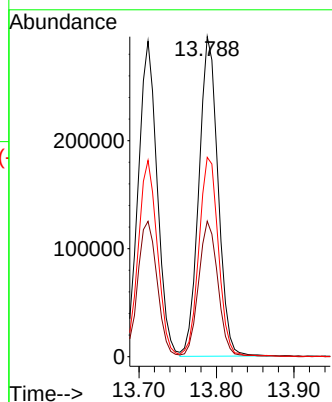
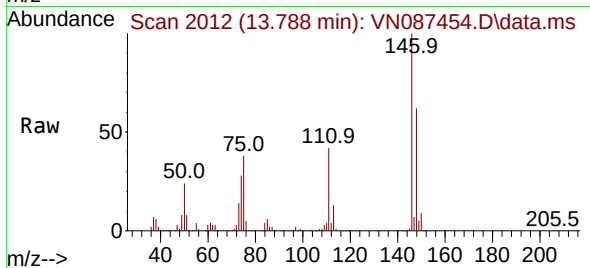




#84  
1,4-Dichlorobenzene  
Concen: 46.603 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

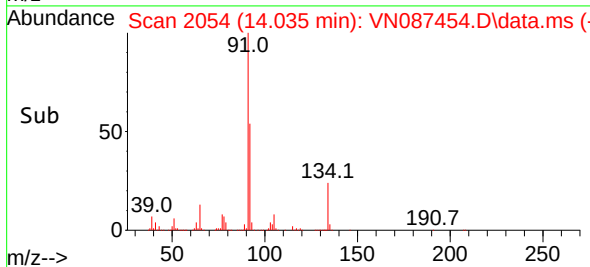
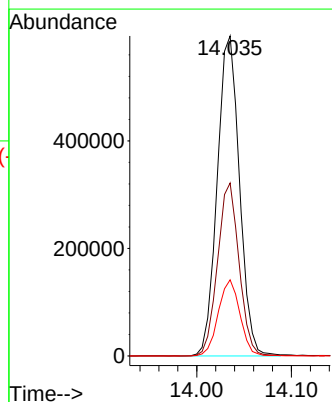
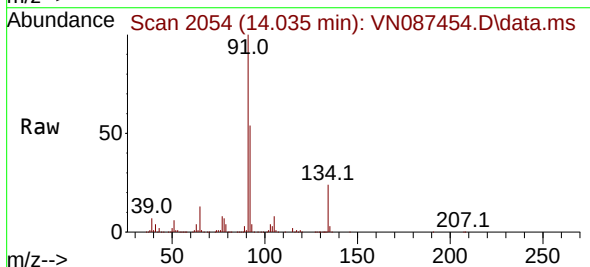
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050

Tgt Ion:146 Resp: 507658  
Ion Ratio Lower Upper  
146 100  
111 42.8 21.1 63.1  
148 63.3 31.4 94.3

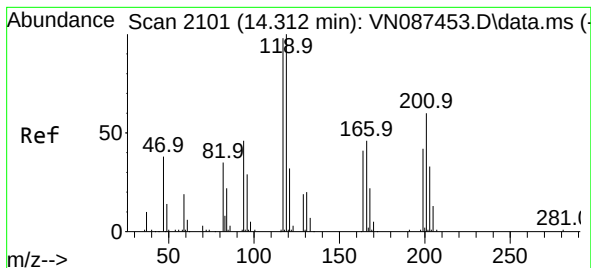


#85  
n-Butylbenzene  
Concen: 46.785 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087454.D  
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 972192  
Ion Ratio Lower Upper  
91 100  
92 52.4 0.0 106.6  
134 23.2 0.0 44.4







#86

Hexachloroethane

Concen: 46.458 ug/l

RT: 14.312 min Scan# 2101

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

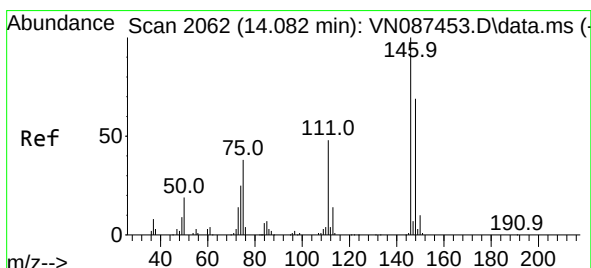
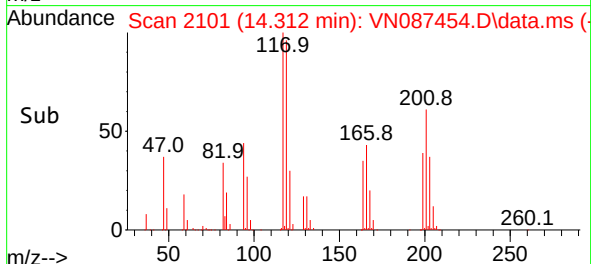
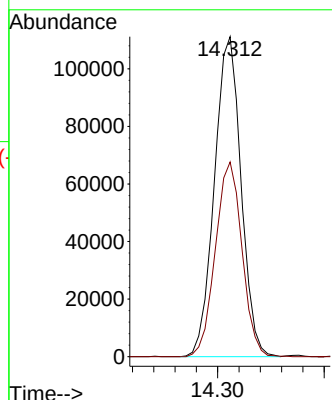
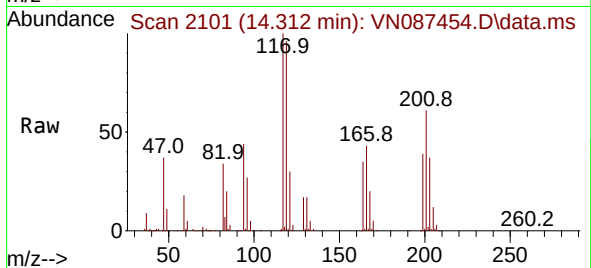
VSTDIC050

Tgt Ion:117 Resp: 192686

Ion Ratio Lower Upper

117 100

201 60.7 29.1 87.4



#87

1,2-Dichlorobenzene

Concen: 47.005 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

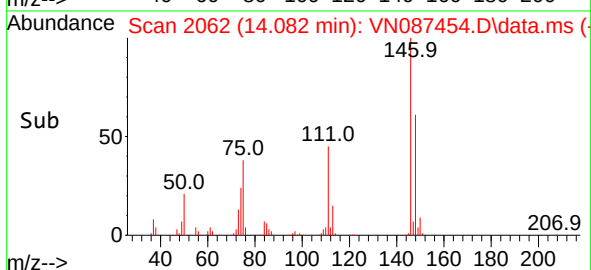
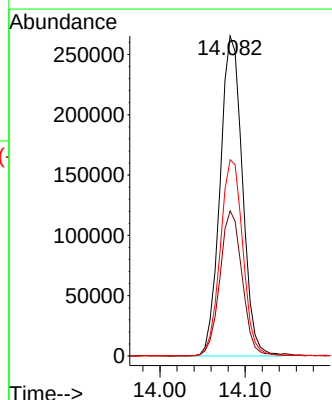
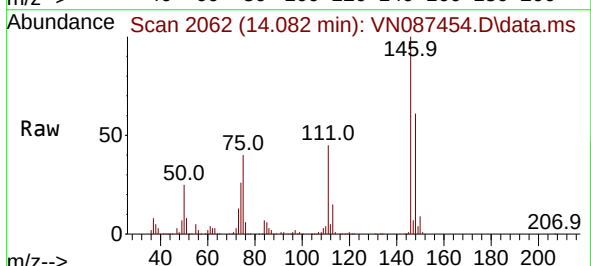
Tgt Ion:146 Resp: 482093

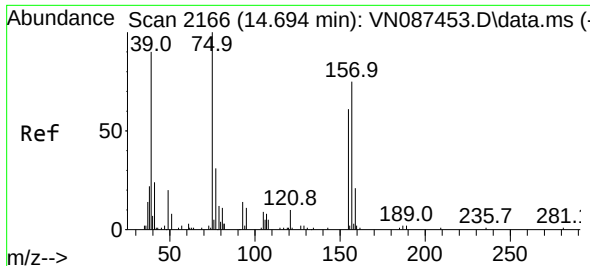
Ion Ratio Lower Upper

146 100

111 45.2 22.9 68.7

148 62.4 31.6 94.7

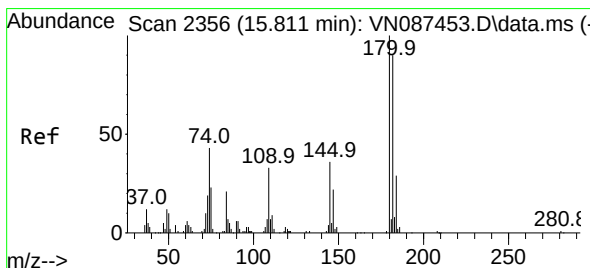
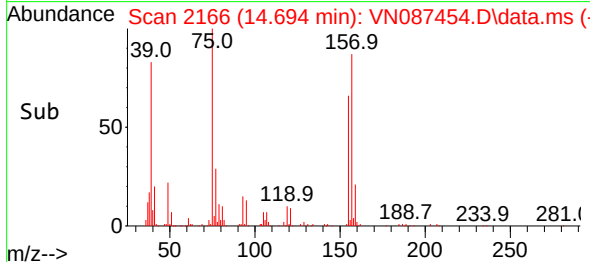
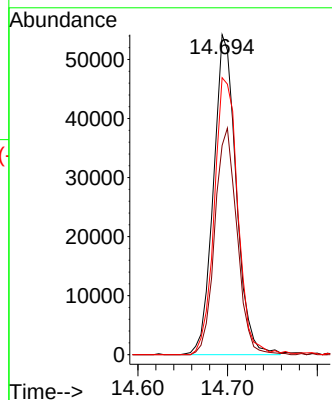
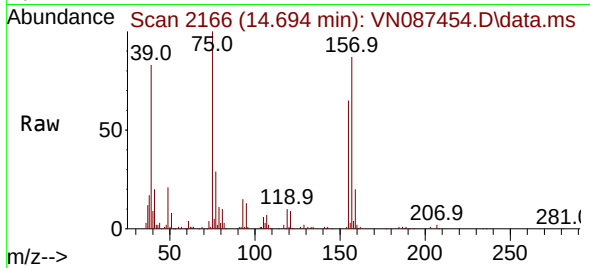




#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 45.236 ug/l  
 RT: 14.694 min Scan# 2166  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

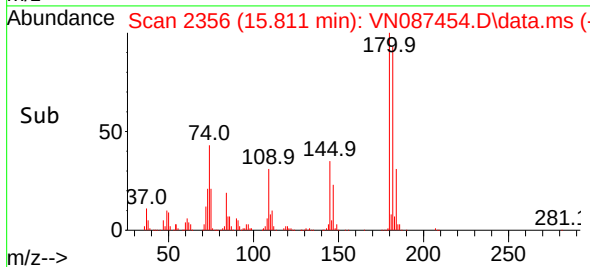
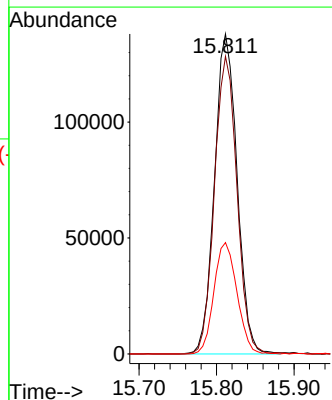
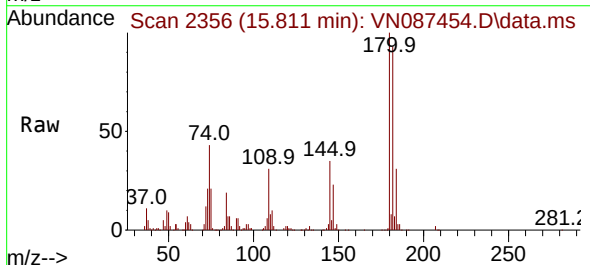
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050

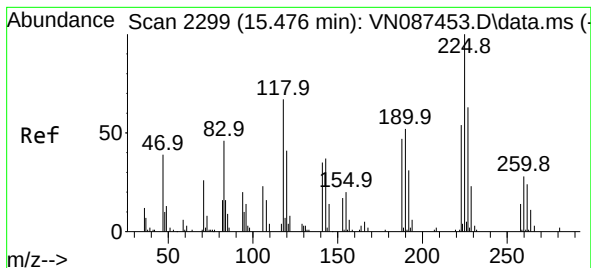
Tgt Ion: 75 Resp: 95570  
 Ion Ratio Lower Upper  
 75 100  
 155 69.0 55.7 83.5  
 157 89.7 65.8 98.6



#89  
 1,2,4-Trichlorobenzene  
 Concen: 45.643 ug/l  
 RT: 15.811 min Scan# 2356  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Tgt Ion: 180 Resp: 279770  
 Ion Ratio Lower Upper  
 180 100  
 182 92.5 75.0 112.4  
 145 35.5 28.6 43.0





#90

Hexachlorobutadiene

Concen: 44.624 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

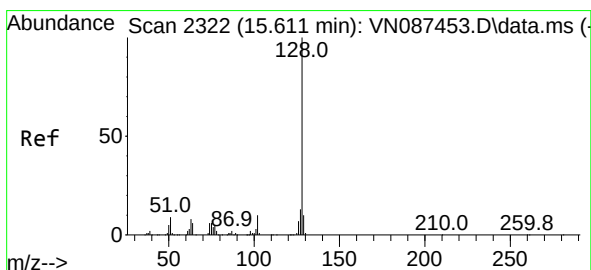
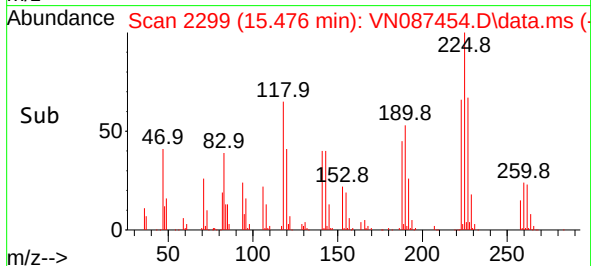
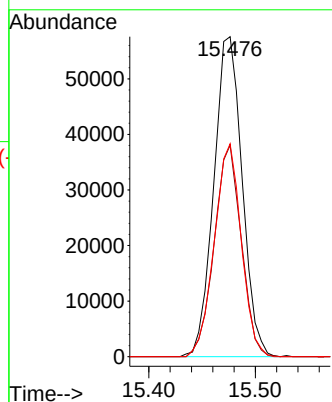
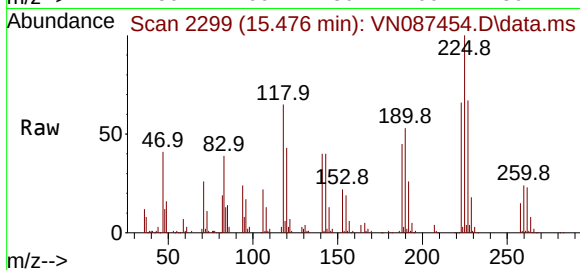
Tgt Ion:225 Resp: 106360

Ion Ratio Lower Upper

225 100

223 63.0 0.0 116.0

227 63.2 0.0 127.0



#91

Naphthalene

Concen: 46.078 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

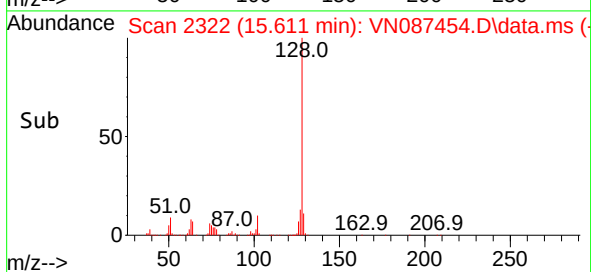
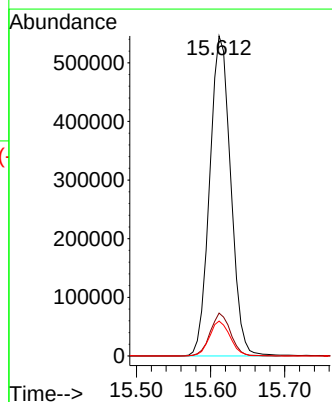
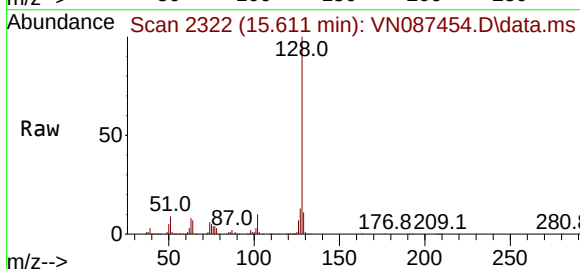
Tgt Ion:128 Resp: 1076915

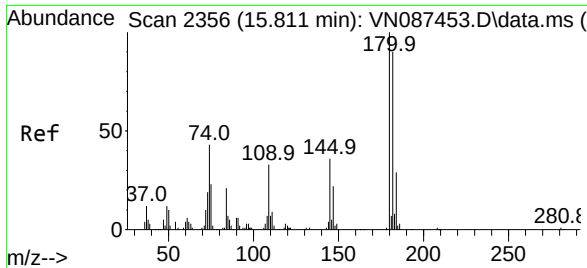
Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

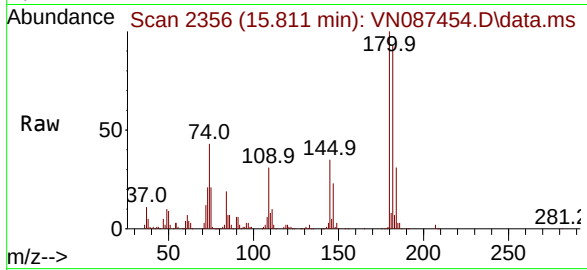
129 10.7 8.9 13.3



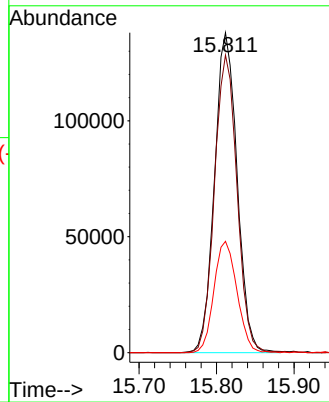
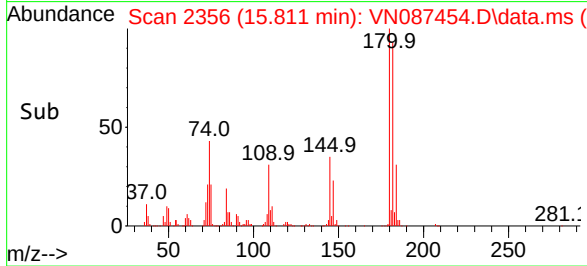


#92  
 1,2,3-Trichlorobenzene  
 Concen: 45.643 ug/l  
 RT: 15.811 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN087454.D  
 Acq: 05 Aug 2025 14:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC050



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 279770 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 92.5  | 0.0   | 187.4  |
| 145       | 35.5  | 0.0   | 71.6   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087455.D  
 Acq On : 05 Aug 2025 14:40  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Aug 06 01:29:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.794  | 128   | 70635    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 389326   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 359656   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 191012   | 29.319   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 97.733%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 186862   | 30.190   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 100.633% |
| 63) Toluene-d8               | 10.547 | 98    | 498338   | 30.114   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 100.367% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 473762   | 102.730  | ug/l   | 97       |
| 3) Chloromethane             | 2.383  | 50    | 466952   | 98.689   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.536  | 62    | 508879   | 101.402  | ug/l   | 97       |
| 5) Bromomethane              | 2.959  | 94    | 287163   | 105.716  | ug/l   | 87       |
| 6) Chloroethane              | 3.130  | 64    | 325044   | 100.444  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.506  | 101   | 716379   | 99.189   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959  | 74    | 295673   | 98.265   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365  | 101   | 359828   | 97.700   | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.330  | 96    | 380598   | 98.381   | ug/l   | 98       |
| 11) Methyl Iodide            | 4.577  | 142   | 380217   | 125.440  | ug/l   | 91       |
| 12) Methyl Acetate           | 5.012  | 43    | 736494   | 103.164  | ug/l   | 97       |
| 13) Acrolein                 | 4.171  | 56    | 549240   | 503.847  | ug/l   | 99       |
| 14) Acrylonitrile            | 5.706  | 53    | 1571651  | 504.158  | ug/l   | 100      |
| 15) Acetone                  | 4.424  | 58    | 418923   | 470.323  | ug/l   | 93       |
| 16) Carbon Disulfide         | 4.700  | 76    | 1199576  | 99.962   | ug/l   | 100      |
| 17) Allyl chloride           | 5.012  | 41    | 801152   | 101.602  | ug/l   | 95       |
| 18) Methylene Chloride       | 5.265  | 84    | 494371   | 99.285   | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 453658   | 98.611   | ug/l   | 93       |
| 20) Diisopropyl ether        | 6.659  | 45    | 1832338  | 102.051  | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 929854   | 100.142  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.477  | 96    | 565755   | 99.948   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530  | 59    | 656761   | 495.796  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.788  | 73    | 1772627  | 100.557  | ug/l   | 99       |
| 25) Chloroform               | 7.947  | 83    | 966531   | 99.723   | ug/l   | 100      |
| 26) Cyclohexane              | 8.241  | 56    | 754564   | 101.498  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 642951   | 101.253  | ug/l   | 98       |
| 30) 2-Butanone               | 7.471  | 43    | 2366356  | 505.563  | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.477  | 77    | 825382   | 100.781  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97    | 825110   | 101.882  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 683314   | 101.563  | ug/l   | 97       |
| 34) Benzene                  | 8.588  | 78    | 2050407  | 102.292  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.765  | 41    | 495672   | 98.134   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 812745   | 100.306  | ug/l   | 100      |
| 37) Trichloroethene          | 9.335  | 130   | 446892   | 101.212  | ug/l   | 94       |
| 38) Methylcyclohexane        | 9.582  | 83    | 747573   | 101.482  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 518393   | 100.868  | ug/l   | 95       |
| 40) Dibromomethane           | 9.688  | 93    | 386489   | 100.231  | ug/l   | 96       |
| 41) Bromodichloromethane     | 9.871  | 83    | 808690   | 100.928  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.588  | 43    | 7820160  | 507.335  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087455.D  
 Acq On : 05 Aug 2025 14:40  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

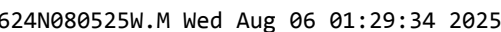
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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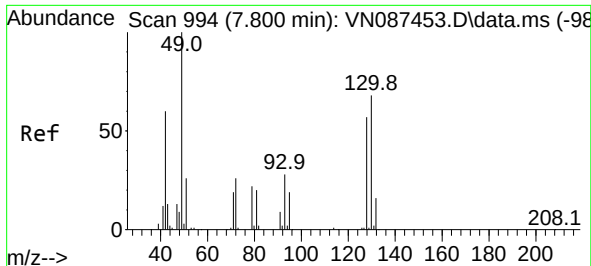
Quant Time: Aug 06 01:29:23 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 907628   | 101.868  | ug/l   | 97       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 1558470  | 101.675  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 194002   | 1985.385 | ug/l   | 96       |
| 46) Methyl methacrylate       | 9.665  | 41   | 732745   | 101.273  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.488 | 43   | 992295   | 128.748  | ug/l # | 60       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 908224   | 104.188  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 903230   | 102.958  | ug/l   | 97       |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 500440   | 102.720  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 926992   | 108.040  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 892266   | 101.657  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.341 | 129  | 590310   | 104.918  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 537806   | 103.987  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 2236990  | 495.251  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 402717   | 108.214  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 4678202  | 505.641  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 3365074  | 535.301  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 347945   | 99.301   | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 2222660  | 100.129  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.870 | 112  | 1377291  | 100.975  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 486095   | 101.362  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 2510073  | 101.451  | ug/l   | 97       |
| 67) m/p-Xylenes               | 12.047 | 106  | 1841924  | 202.817  | ug/l   | 99       |
| 68) o-Xylene                  | 12.376 | 106  | 906317   | 101.440  | ug/l   | 100      |
| 69) Styrene                   | 12.388 | 104  | 1585501  | 103.928  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 2334192  | 102.833  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 784278   | 100.840  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 1100704  | 137.681  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 540169   | 102.653  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 2895579  | 102.142  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 1757134  | 100.765  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 1972967  | 101.515  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 312541   | 113.952  | ug/l   | 92       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 1813669  | 102.633  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 1672735  | 102.082  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 1998320  | 102.898  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 2416128  | 101.283  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 2001765  | 101.064  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.711 | 146  | 1015919  | 101.387  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1028636  | 101.255  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 1987536  | 102.562  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.311 | 117  | 399888   | 103.386  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 976220   | 102.064  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 199216   | 101.112  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 582952   | 101.981  | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 212184   | 95.460   | ug/l   | 95       |
| 91) Naphthalene               | 15.611 | 128  | 2259551  | 103.669  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 582952   | 101.981  | ug/l   | 100      |

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

Quant Time: Aug 06 01:29:23 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration

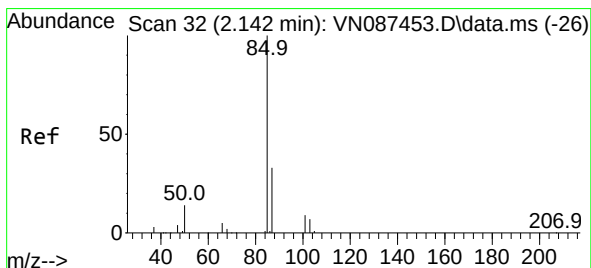
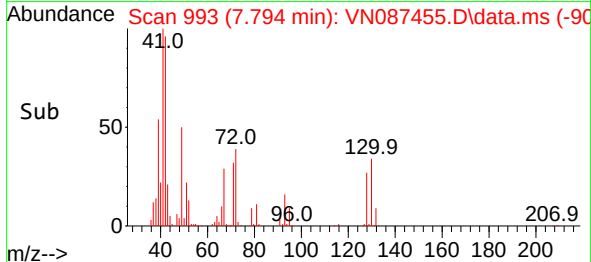
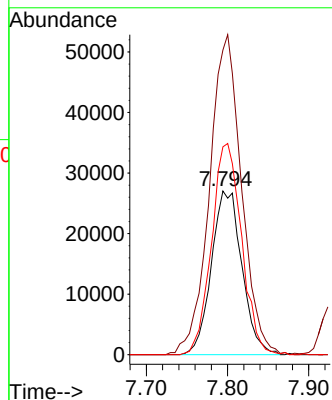
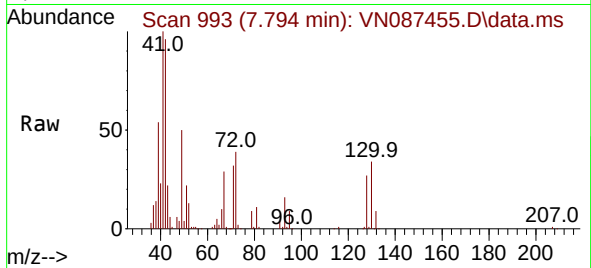




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

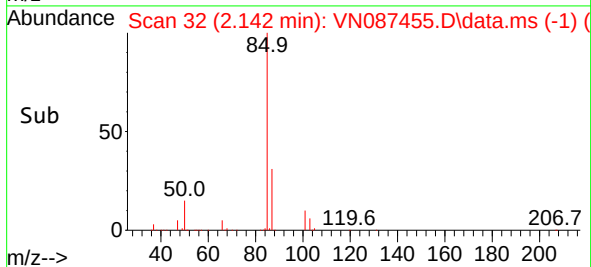
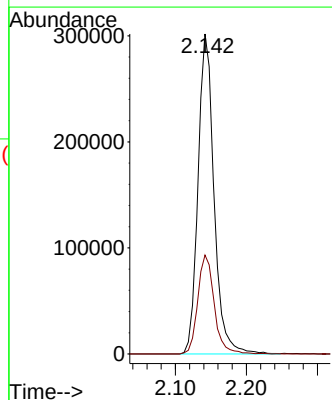
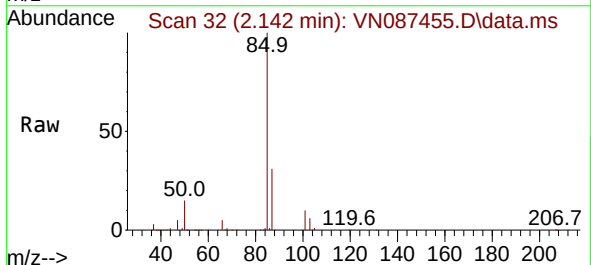
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:128 Resp: 70635  
Ion Ratio Lower Upper  
128 100  
49 205.4 0.0 494.8  
130 126.8 0.0 321.5

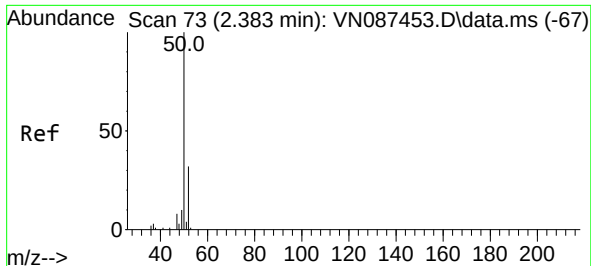


#2  
Dichlorodifluoromethane  
Concen: 102.730 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 85 Resp: 473762  
Ion Ratio Lower Upper  
85 100  
87 30.9 16.4 49.2



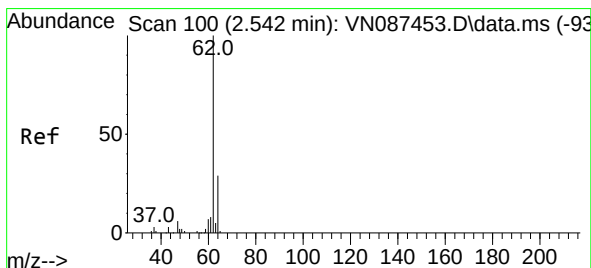
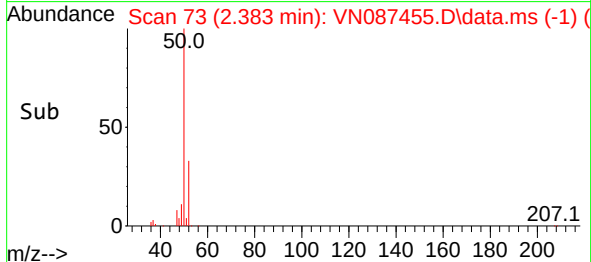
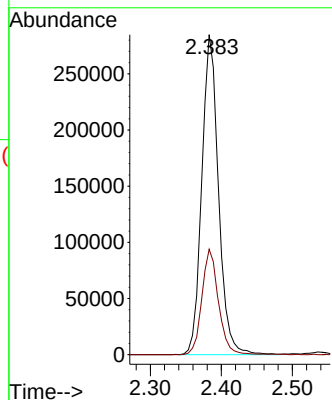
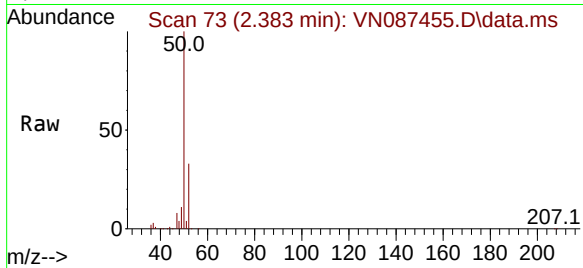




#3  
Chloromethane  
Concen: 98.689 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

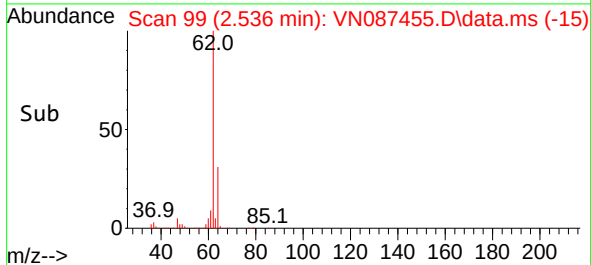
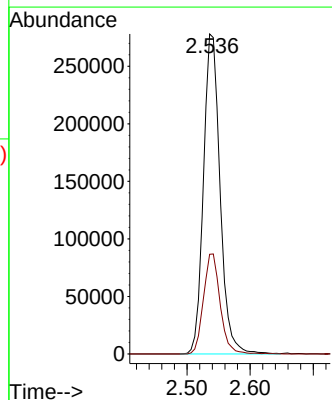
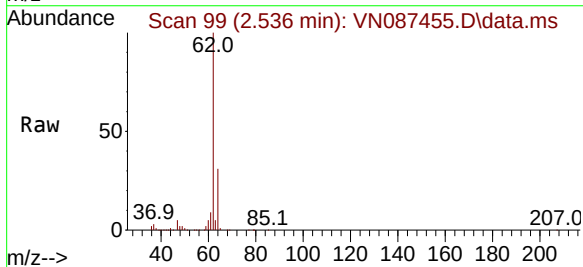
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

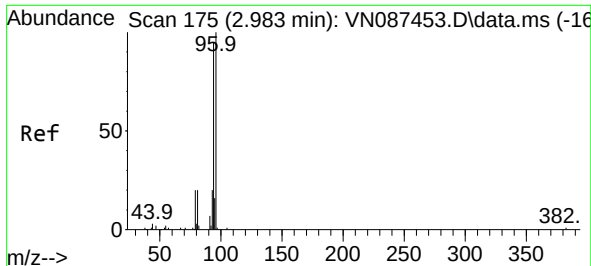
Tgt Ion: 50 Resp: 466952  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.8 38.6



#4  
Vinyl Chloride  
Concen: 101.402 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 62 Resp: 508879  
Ion Ratio Lower Upper  
62 100  
64 31.2 23.4 35.2

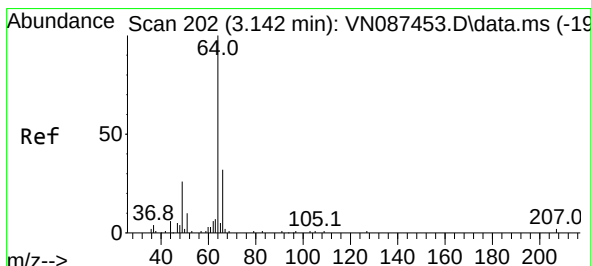
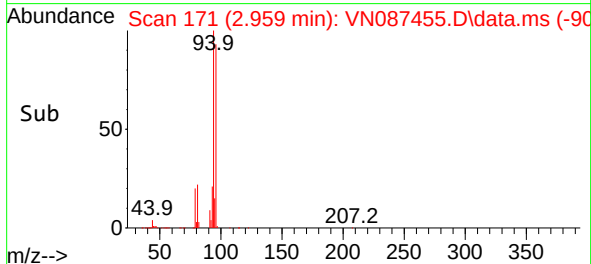
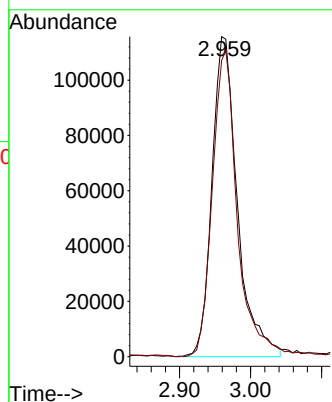
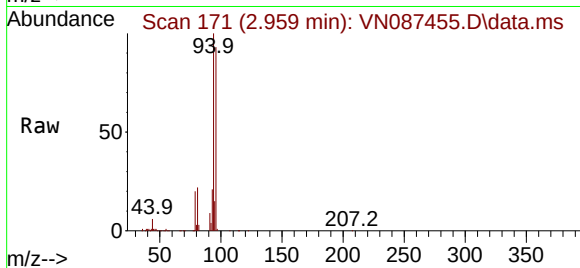




#5  
Bromomethane  
Concen: 105.716 ug/l  
RT: 2.959 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

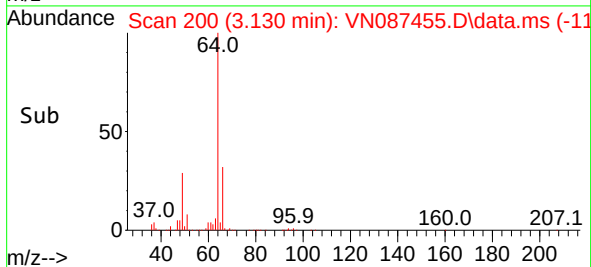
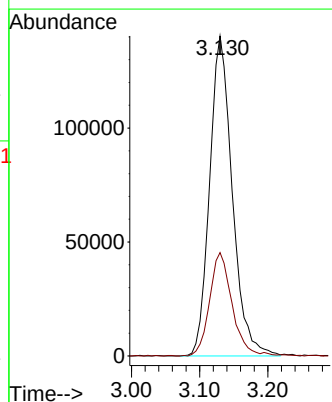
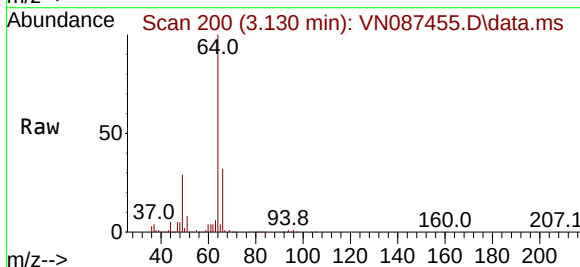
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

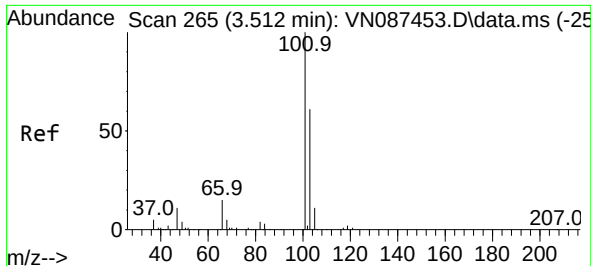
Tgt Ion: 94 Resp: 287163  
Ion Ratio Lower Upper  
94 100  
96 92.3 84.2 126.4



#6  
Chloroethane  
Concen: 100.444 ug/l  
RT: 3.130 min Scan# 200  
Delta R.T. -0.012 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 64 Resp: 325044  
Ion Ratio Lower Upper  
64 100  
66 32.3 25.4 38.0

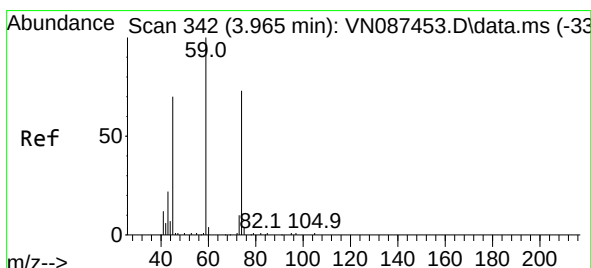
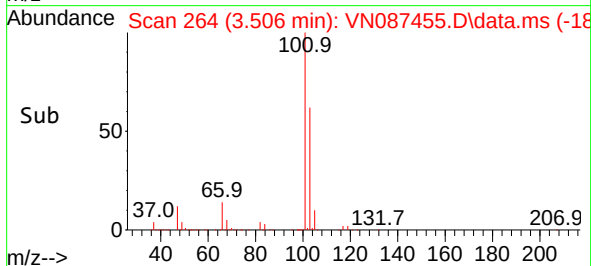
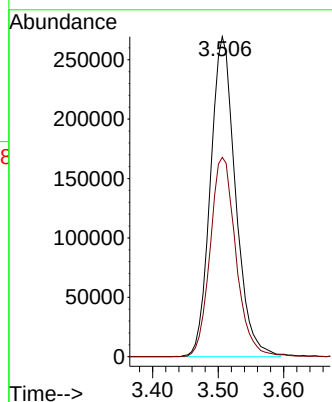
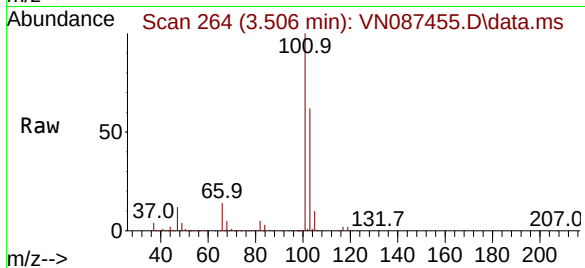




#7  
Trichlorofluoromethane  
Concen: 99.189 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

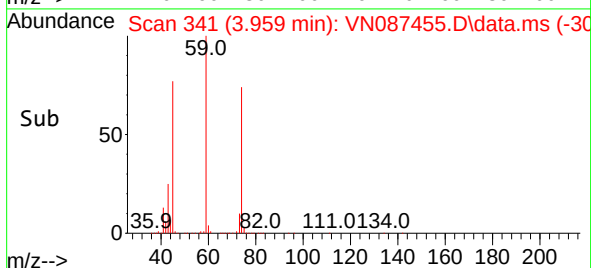
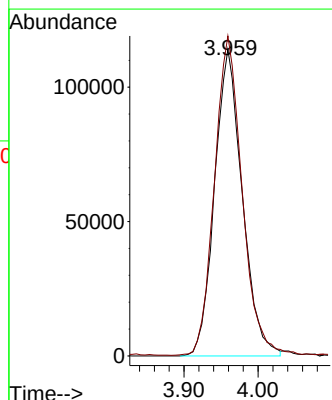
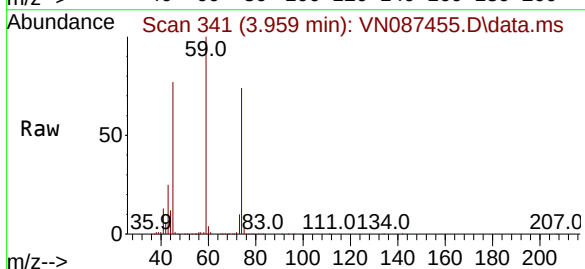
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

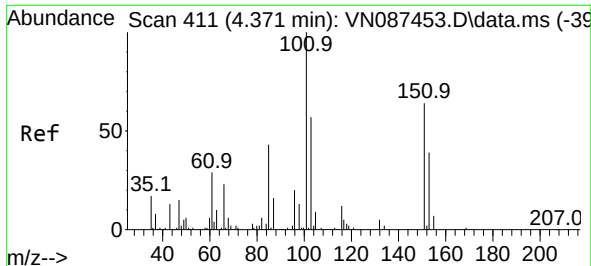
Tgt Ion:101 Resp: 716379  
Ion Ratio Lower Upper  
101 100  
103 62.2 49.2 73.8



#8  
Diethyl Ether  
Concen: 98.265 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 74 Resp: 295673  
Ion Ratio Lower Upper  
74 100  
45 103.8 20.1 180.9

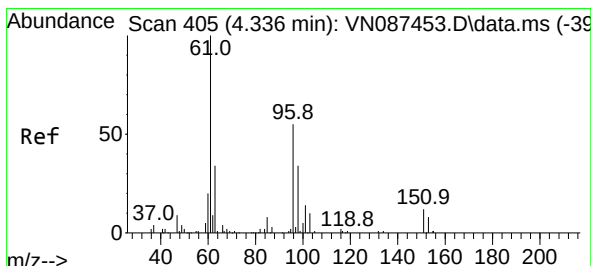
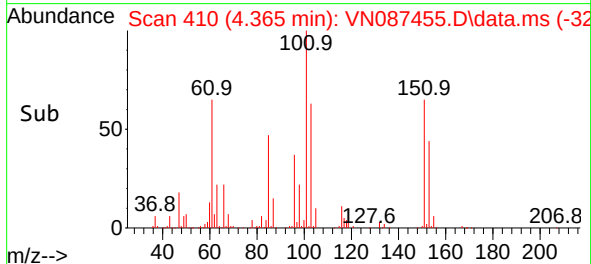
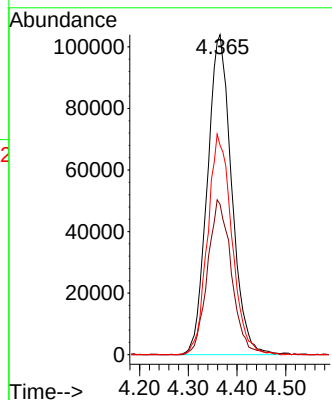
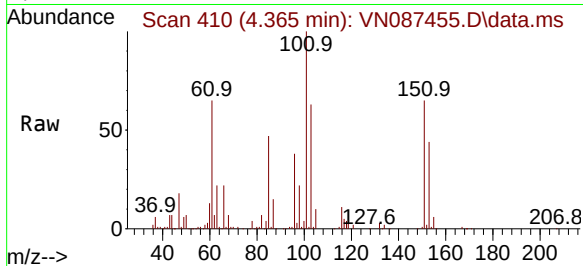




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 97.700 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

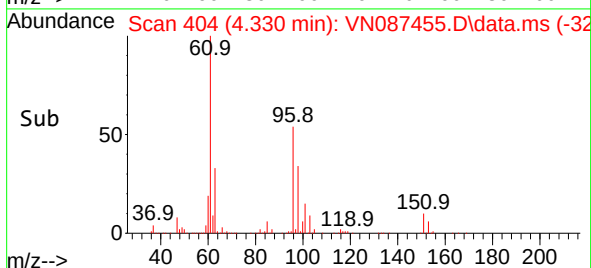
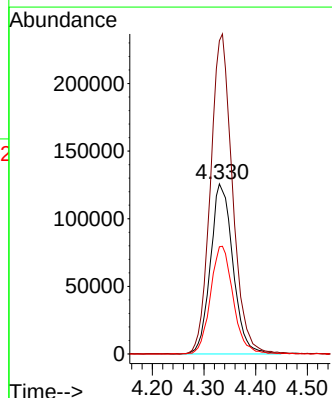
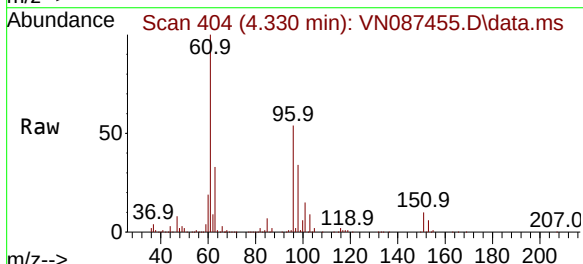
Instrument :  
MSVOA\_N  
ClientSampleId :  
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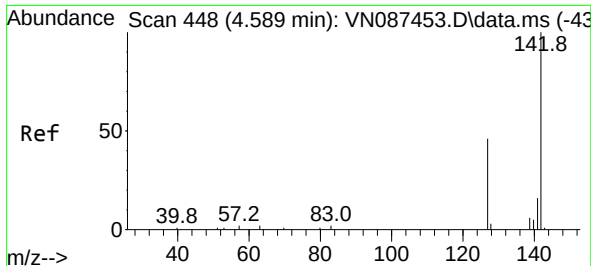
Tgt Ion:101 Resp: 359828  
Ion Ratio Lower Upper  
101 100  
85 47.7 0.0 57.0  
151 69.0 0.0 134.2



#10  
1,1-Dichloroethene  
Concen: 98.381 ug/l  
RT: 4.330 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 96 Resp: 380598  
Ion Ratio Lower Upper  
96 100  
61 184.2 144.2 216.4  
98 63.0 49.7 74.5

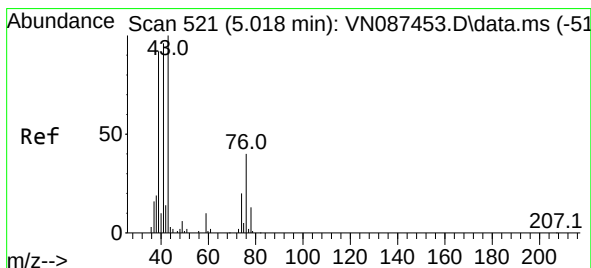
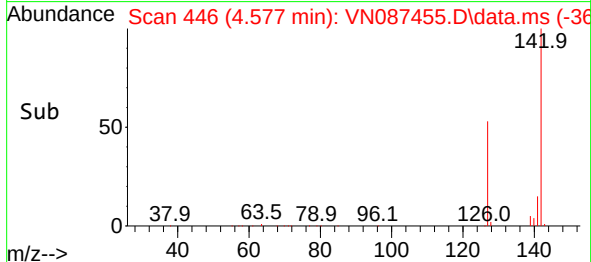
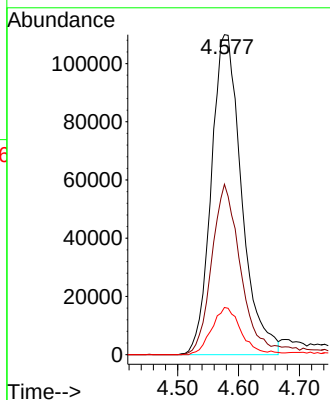
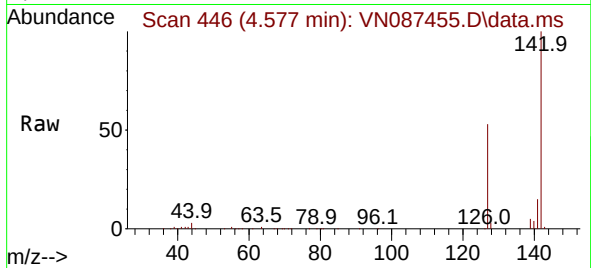




#11  
Methyl Iodide  
Concen: 125.440 ug/l  
RT: 4.577 min Scan# 44  
Delta R.T. -0.012 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

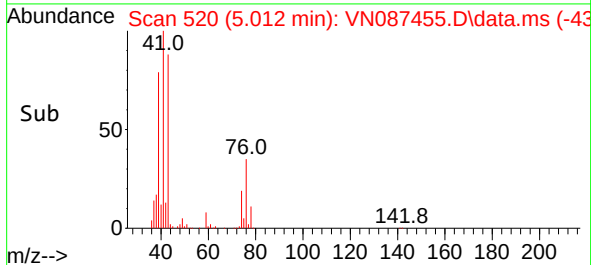
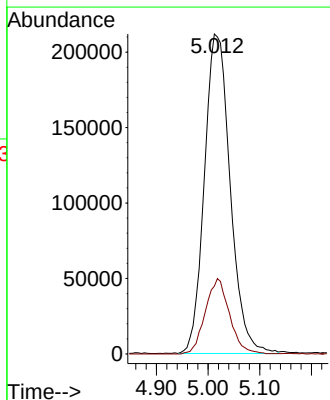
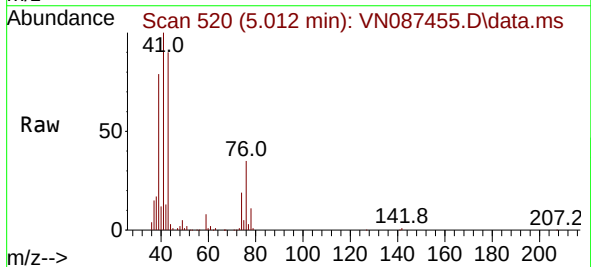
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ClientSampleId :  
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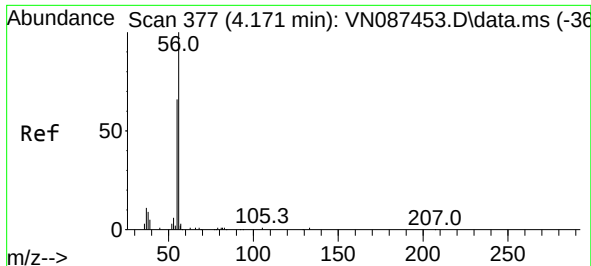
Tgt Ion:142 Resp: 380217  
Ion Ratio Lower Upper  
142 100  
127 53.0 22.9 68.7  
141 14.7 7.7 23.1



#12  
Methyl Acetate  
Concen: 103.164 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 736494  
Ion Ratio Lower Upper  
43 100  
74 21.2 16.0 24.0

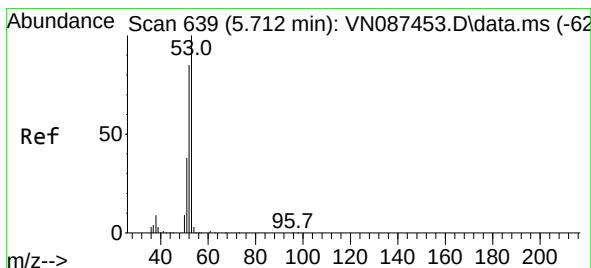
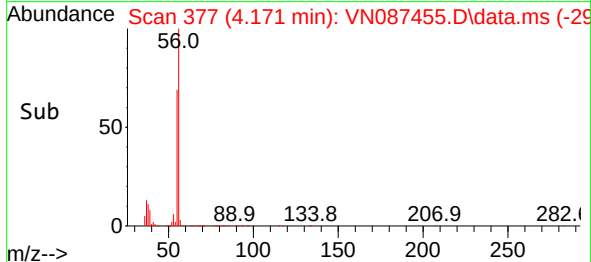
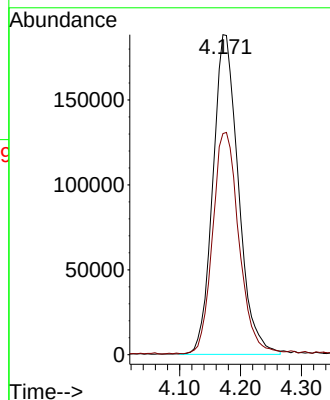
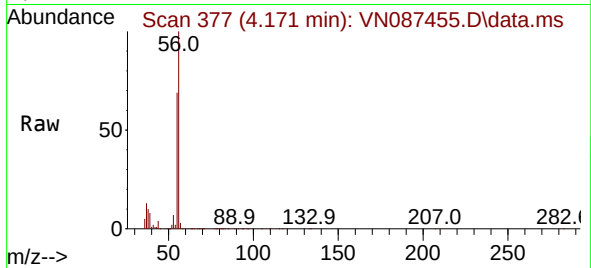




#13  
Acrolein  
Concen: 503.847 ug/l  
RT: 4.171 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

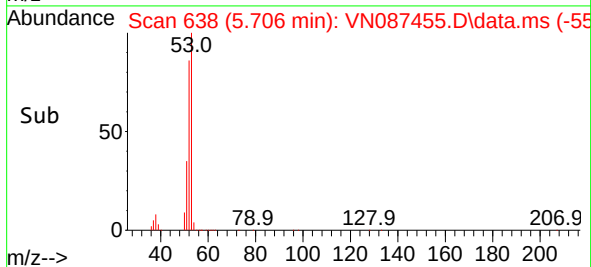
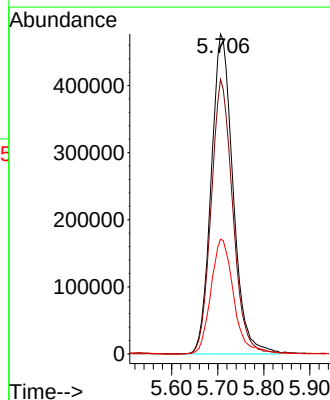
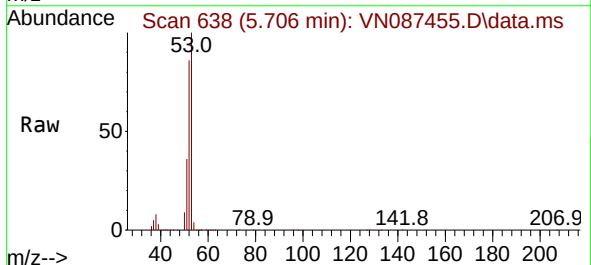
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

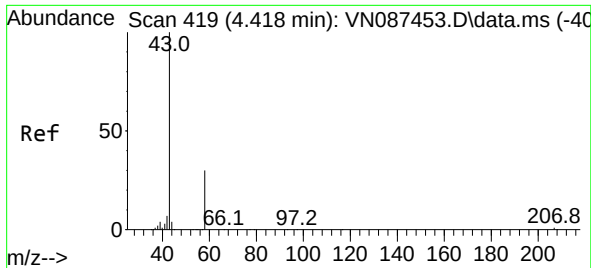
Tgt Ion: 56 Resp: 549240  
Ion Ratio Lower Upper  
56 100  
55 71.1 57.4 86.0



#14  
Acrylonitrile  
Concen: 504.158 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 53 Resp: 1571651  
Ion Ratio Lower Upper  
53 100  
52 84.6 42.4 127.2  
51 37.5 18.5 55.5

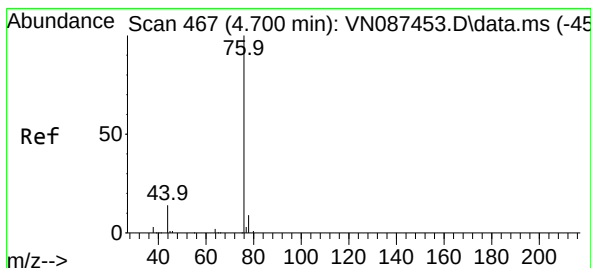
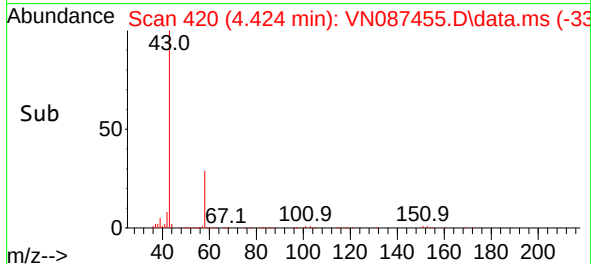
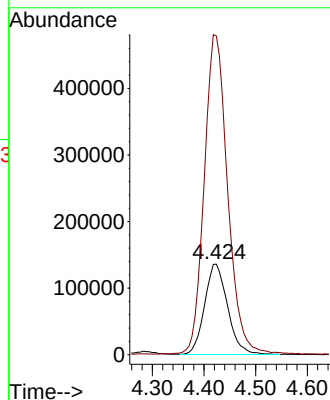
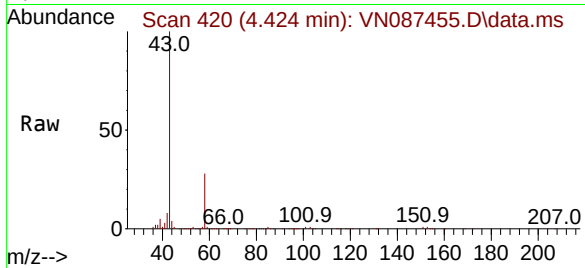




#15  
Acetone  
Concen: 470.323 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

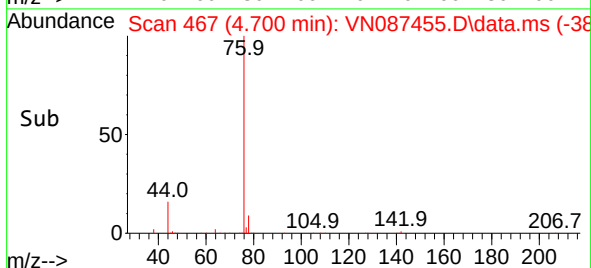
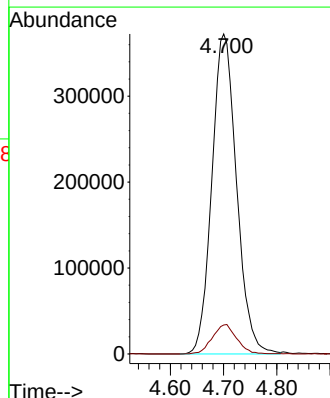
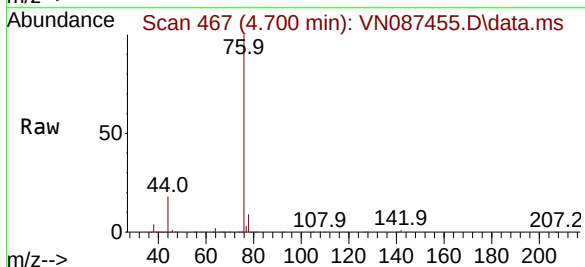
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

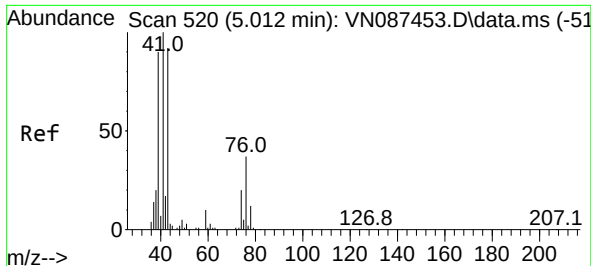
Tgt Ion: 58 Resp: 418923  
Ion Ratio Lower Upper  
58 100  
43 351.4 268.9 403.3



#16  
Carbon Disulfide  
Concen: 99.962 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 76 Resp: 1199576  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 101.602 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

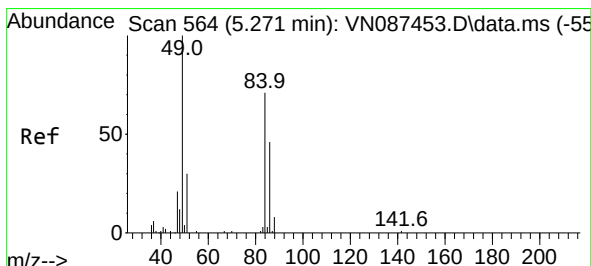
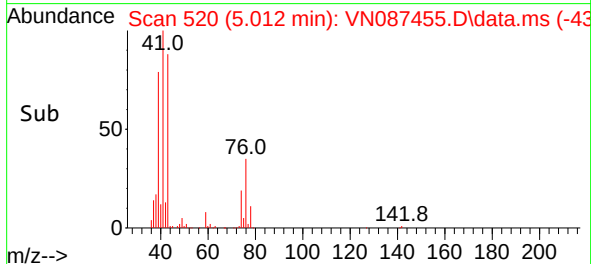
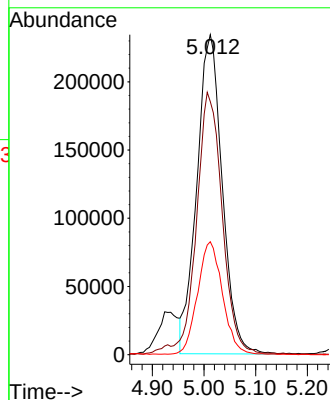
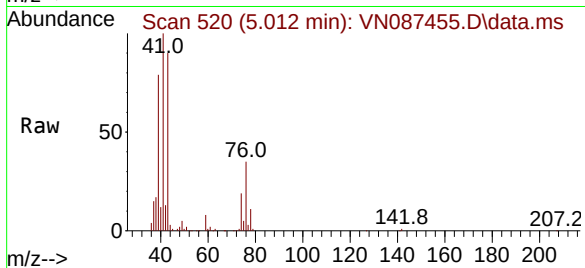
Tgt Ion: 41 Resp: 801152

Ion Ratio Lower Upper

41 100

39 79.0 42.4 127.2

76 35.3 16.9 50.6



#18

Methylene Chloride

Concen: 99.285 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 84 Resp: 494371

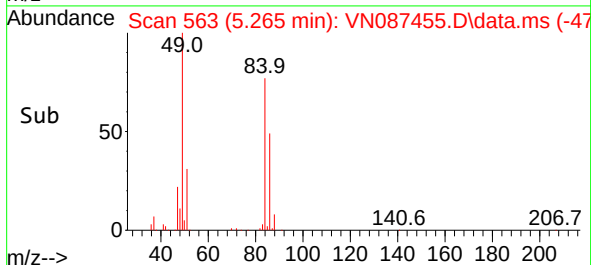
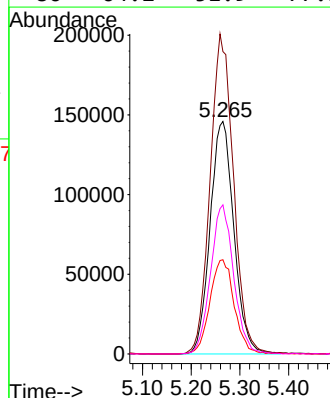
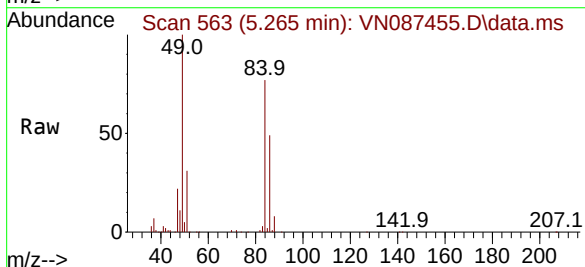
Ion Ratio Lower Upper

84 100

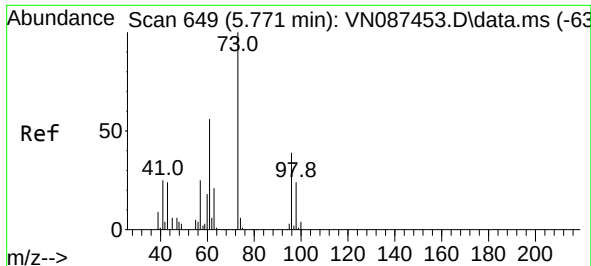
49 130.1 112.9 169.3

51 40.4 33.8 50.8

86 64.2 51.9 77.9



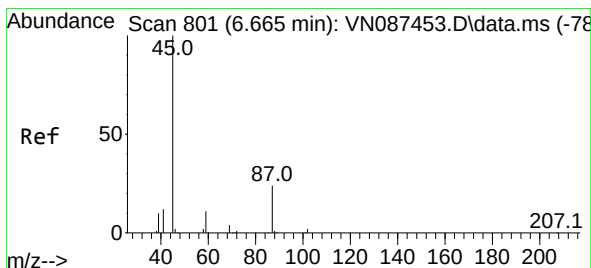
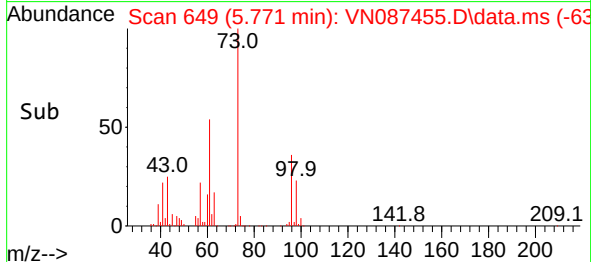
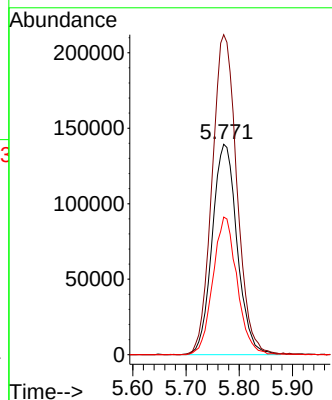
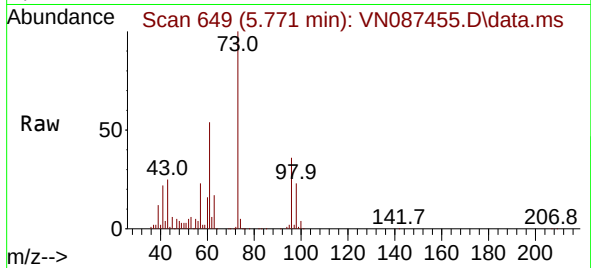




#19  
trans-1,2-Dichloroethene  
Concen: 98.611 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

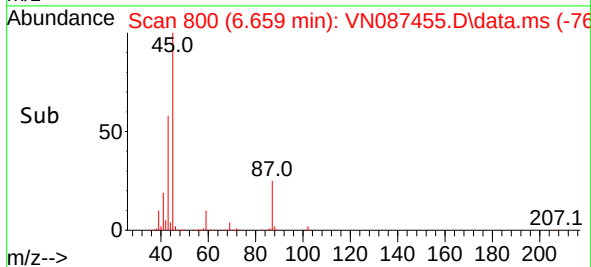
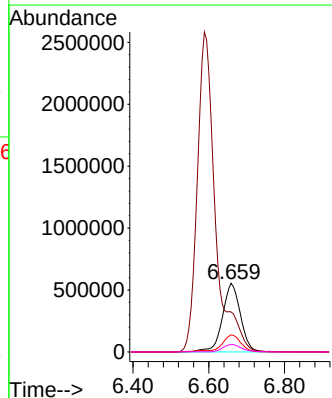
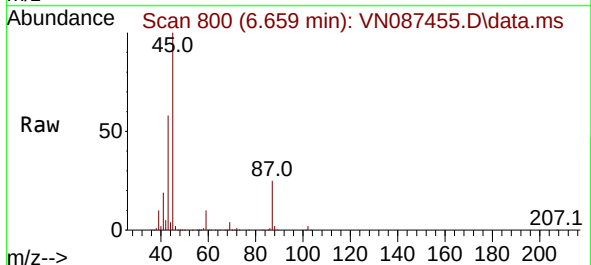
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

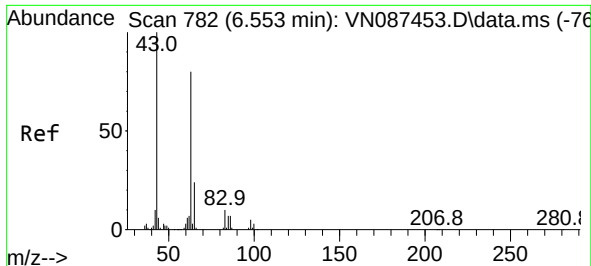
Tgt Ion: 96 Resp: 453658  
Ion Ratio Lower Upper  
96 100  
61 152.1 114.2 171.4  
98 65.4 48.7 73.1



#20  
Diisopropyl ether  
Concen: 102.051 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 45 Resp: 1832338  
Ion Ratio Lower Upper  
45 100  
43 57.9 44.7 67.1  
87 24.8 20.2 30.2  
59 10.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 100.142 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

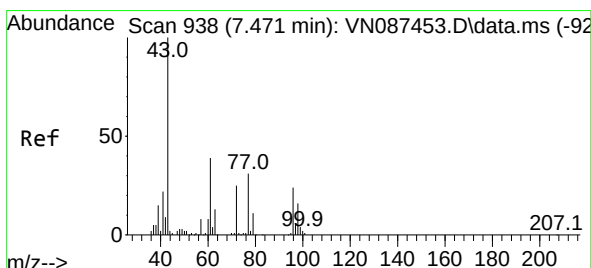
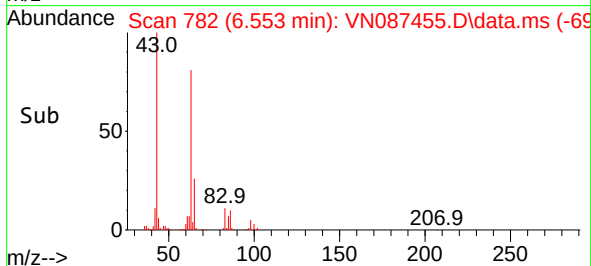
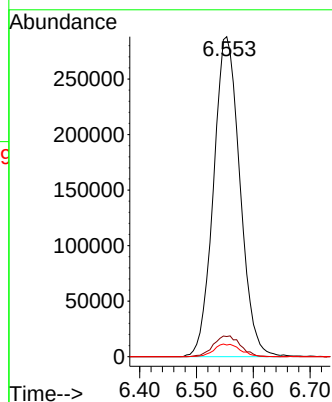
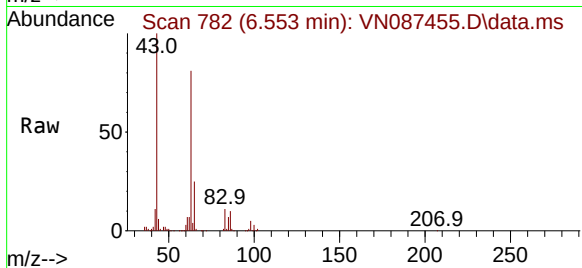
Tgt Ion: 63 Resp: 929854

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

100 3.7 1.9 5.7



#22

cis-1,2-Dichloroethene

Concen: 99.948 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

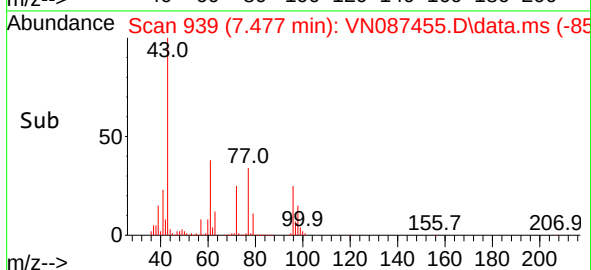
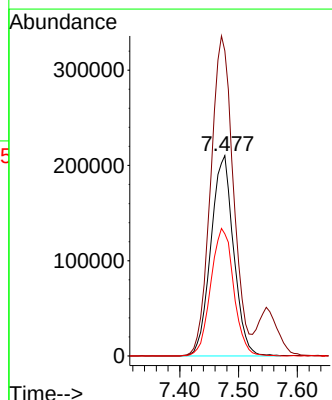
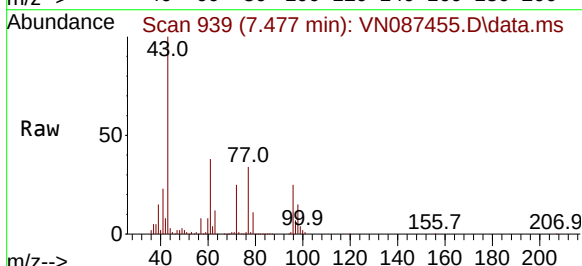
Tgt Ion: 96 Resp: 565755

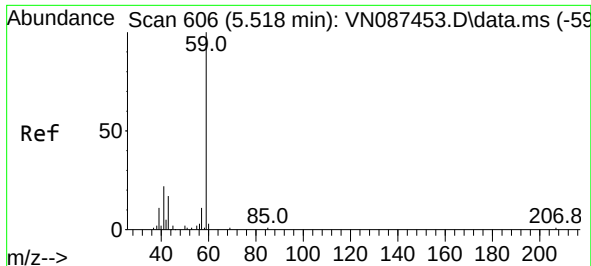
Ion Ratio Lower Upper

96 100

61 159.8 126.6 190.0

98 64.1 50.9 76.3

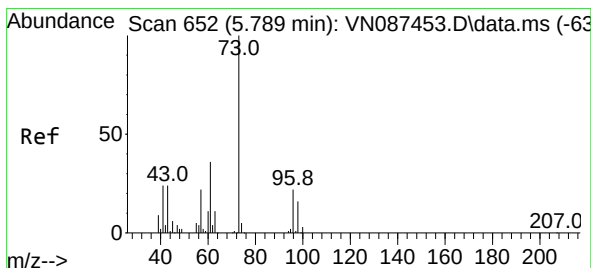
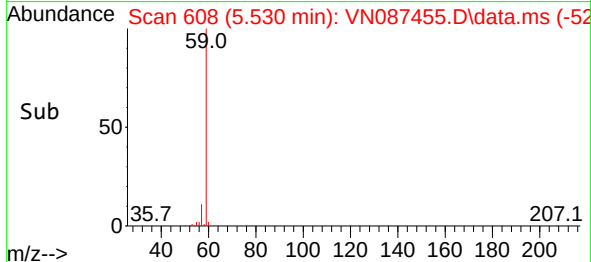
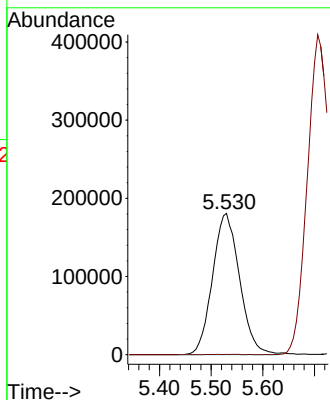
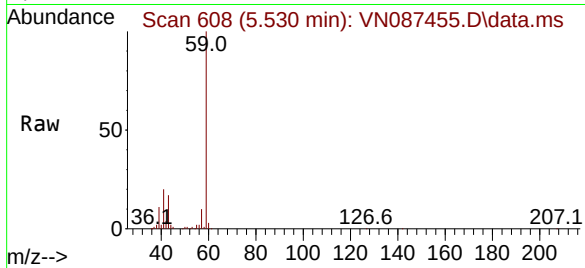




#23  
tert-Butyl Alcohol  
Concen: 495.796 ug/l  
RT: 5.530 min Scan# 606  
Delta R.T. 0.012 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

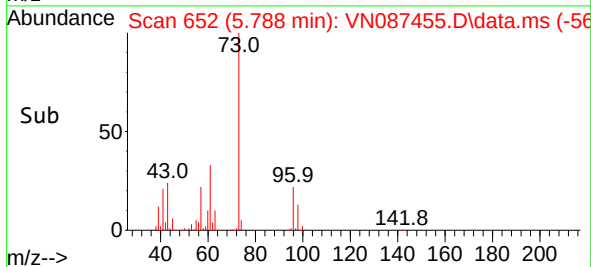
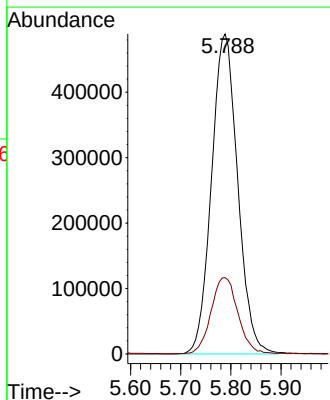
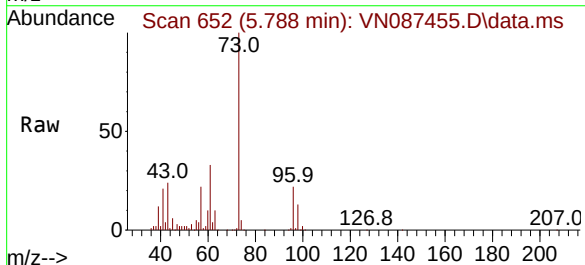
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

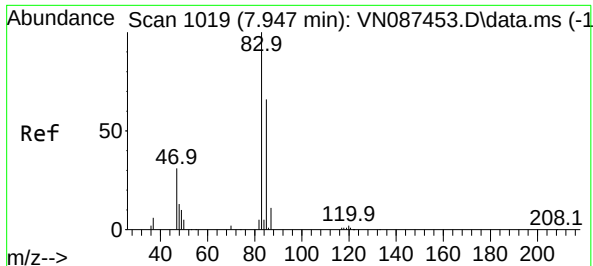
Tgt Ion: 59 Resp: 656761  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0#



#24  
Methyl tert-Butyl Ether  
Concen: 100.557 ug/l  
RT: 5.788 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 73 Resp: 1772627  
Ion Ratio Lower Upper  
73 100  
43 24.4 19.9 29.9

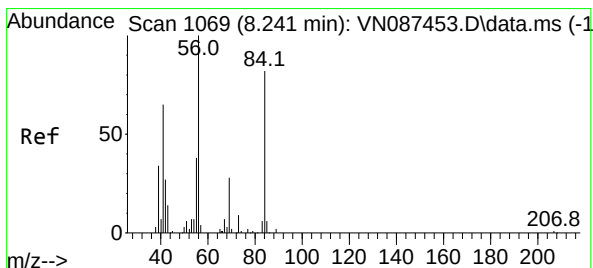
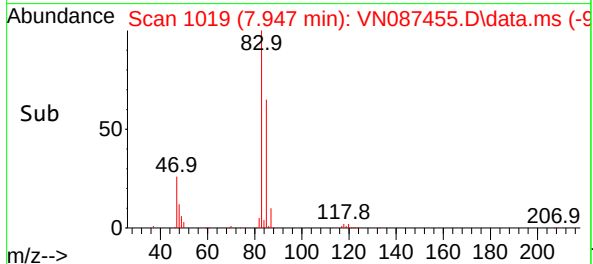
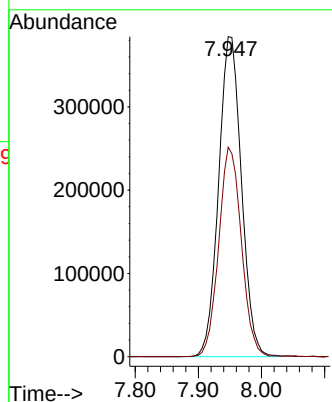
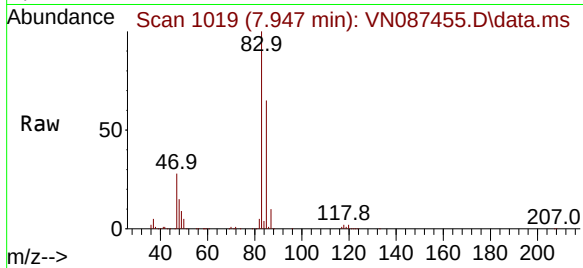




#25  
Chloroform  
Concen: 99.723 ug/l  
RT: 7.947 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

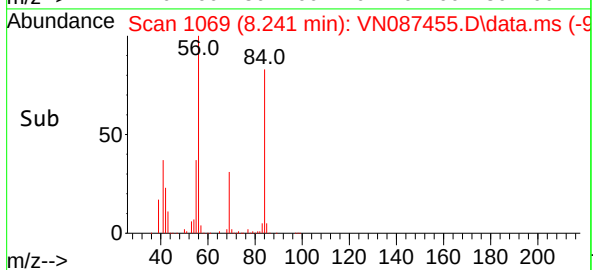
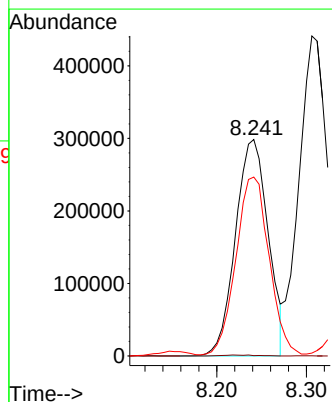
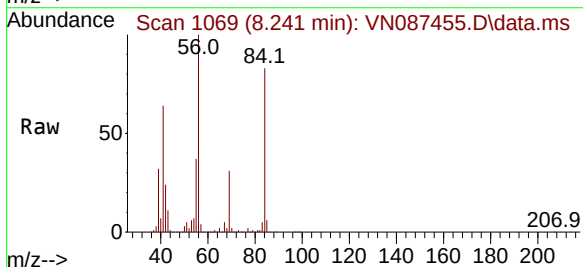
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MSVOA\_N  
ClientSampleId :  
VSTDIC100

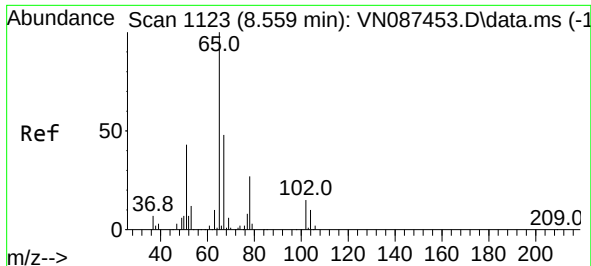
Tgt Ion: 83 Resp: 966531  
Ion Ratio Lower Upper  
83 100  
85 65.5 52.6 78.8



#26  
Cyclohexane  
Concen: 101.498 ug/l  
RT: 8.241 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 56 Resp: 754564  
Ion Ratio Lower Upper  
56 100  
89 0.2 2.3 3.5#  
84 84.5 67.0 100.4

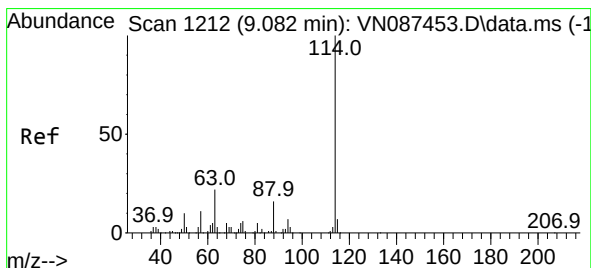
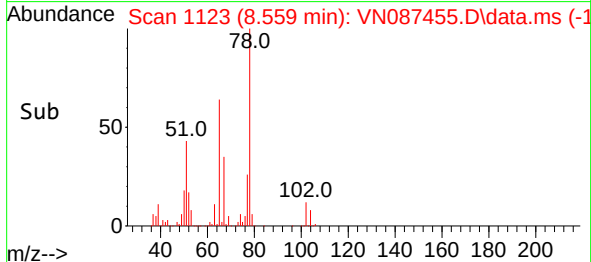
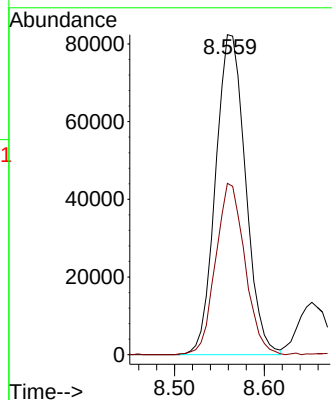
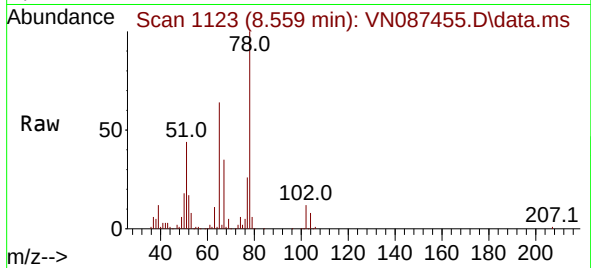




#27  
 1,2-Dichloroethane-d4  
 Concen: 29.319 ug/l  
 RT: 8.559 min Scan# 1123  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

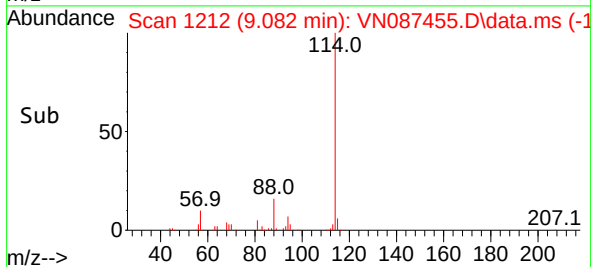
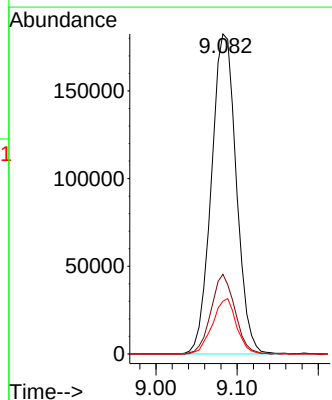
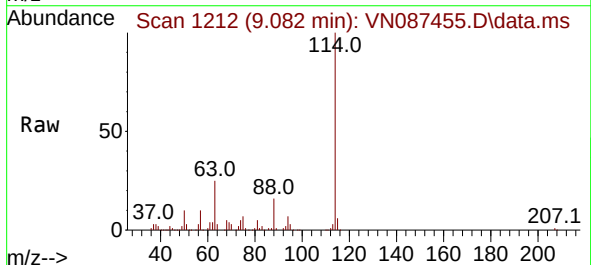
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

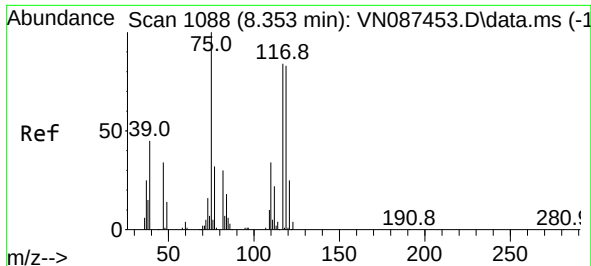
Tgt Ion: 65 Resp: 191012  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 40.8 61.2



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 9.082 min Scan# 1212  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

Tgt Ion: 114 Resp: 389326  
 Ion Ratio Lower Upper  
 114 100  
 63 23.8 18.9 28.3  
 88 16.6 13.1 19.7

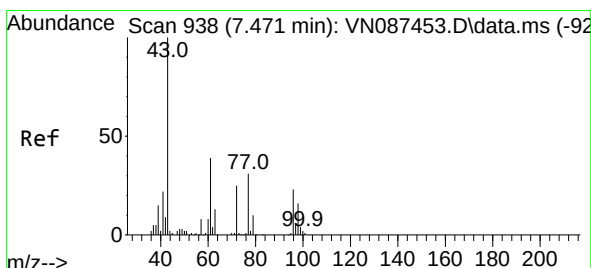
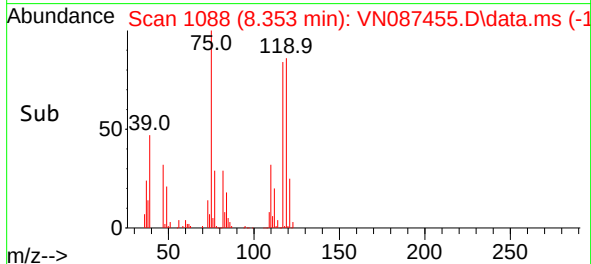
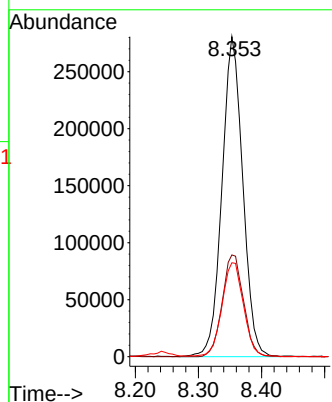
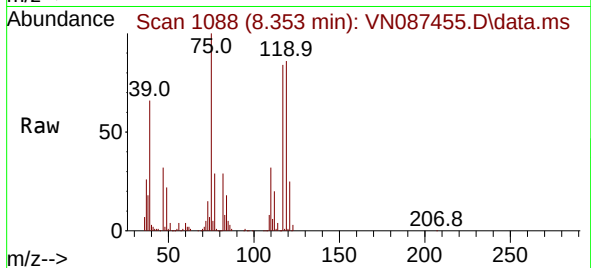




#29  
1,1-Dichloropropene  
Concen: 101.253 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

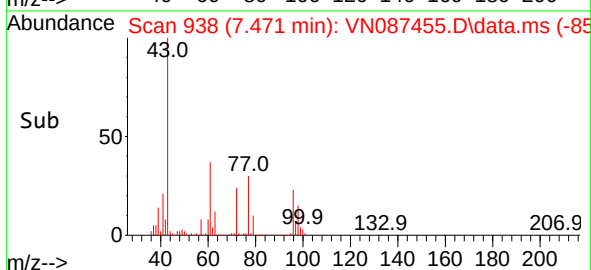
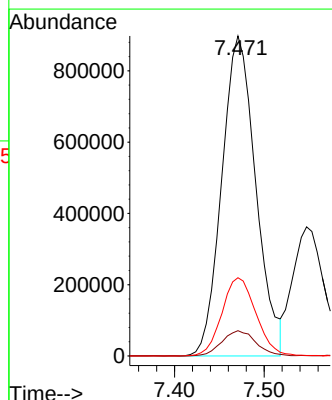
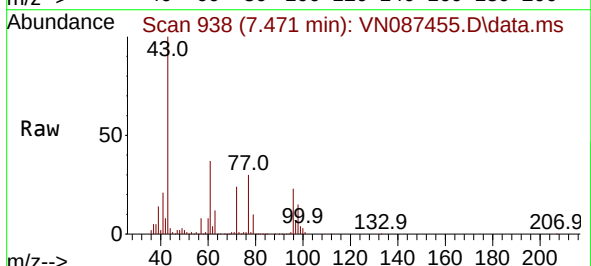
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

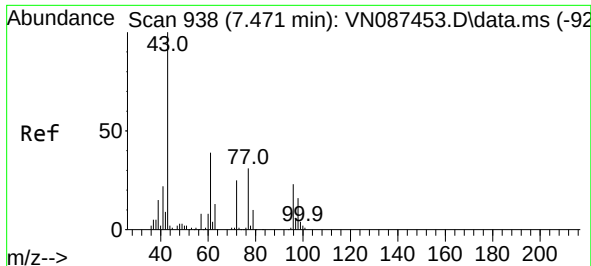
Tgt Ion: 75 Resp: 642951  
Ion Ratio Lower Upper  
75 100  
110 32.4 0.0 65.8  
77 30.5 0.0 63.6



#30  
2-Butanone  
Concen: 505.563 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 2366356  
Ion Ratio Lower Upper  
43 100  
57 7.9 6.6 9.8  
72 24.5 19.7 29.5

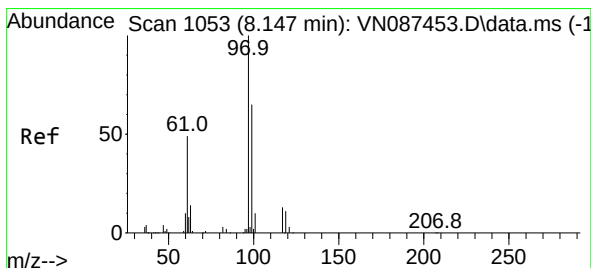
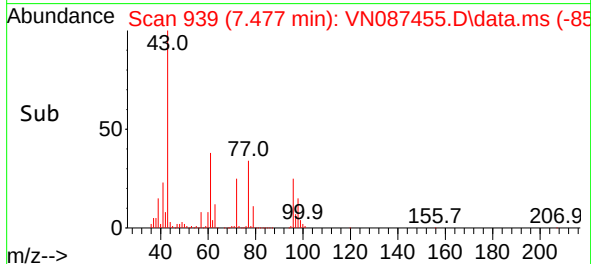
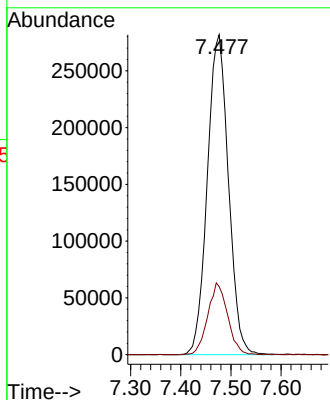
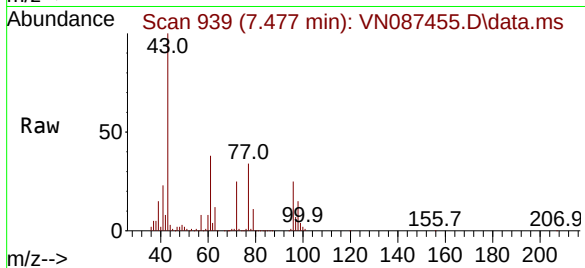




#31  
2,2-Dichloropropane  
Concen: 100.781 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

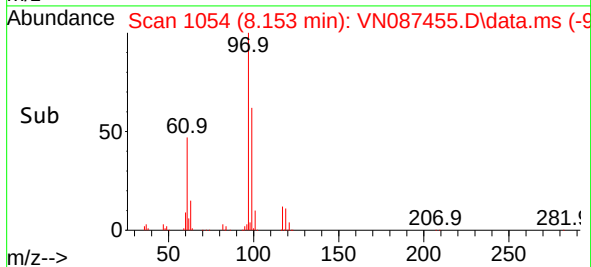
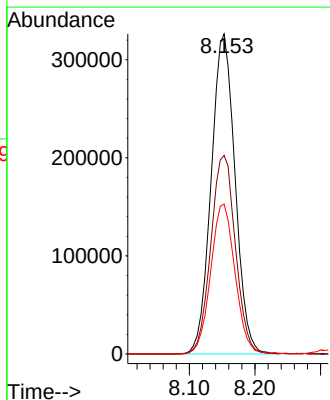
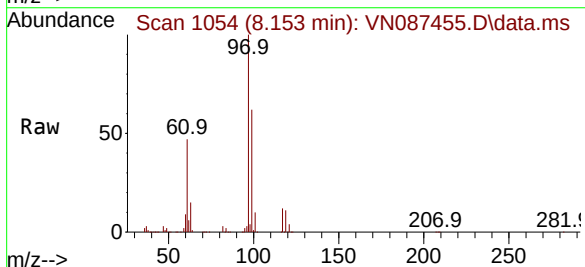
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

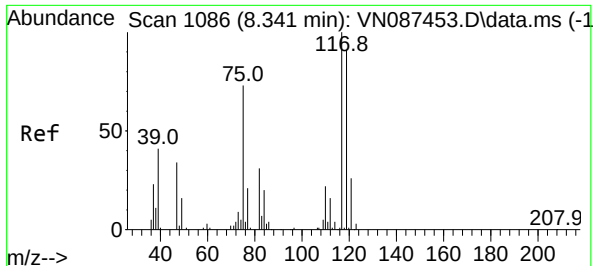
Tgt Ion: 77 Resp: 825382  
Ion Ratio Lower Upper  
77 100  
97 21.0 16.7 25.1



#32  
1,1,1-Trichloroethane  
Concen: 101.882 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 825110  
Ion Ratio Lower Upper  
97 100  
99 63.8 53.0 79.6  
61 47.6 40.6 61.0

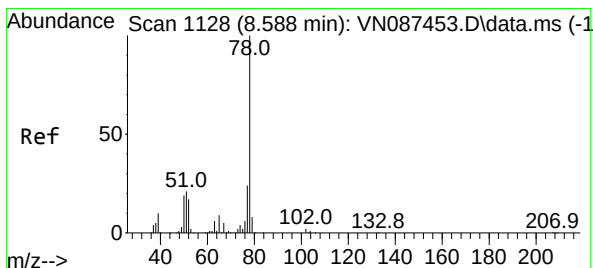
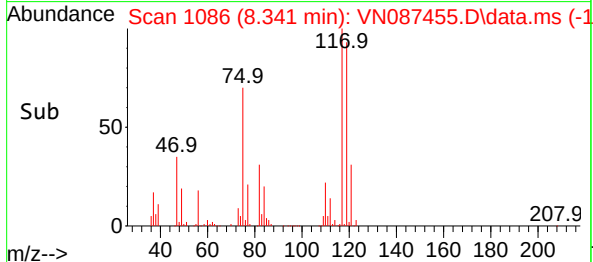
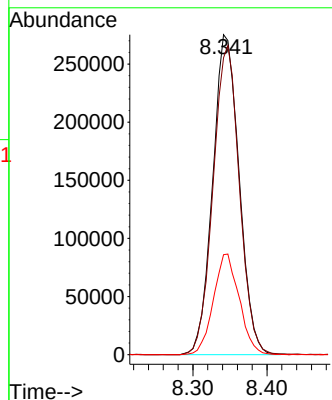
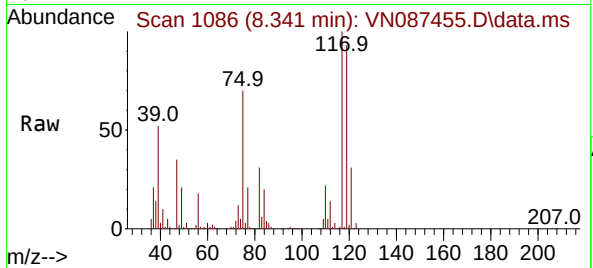




#33  
Carbon Tetrachloride  
Concen: 101.563 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

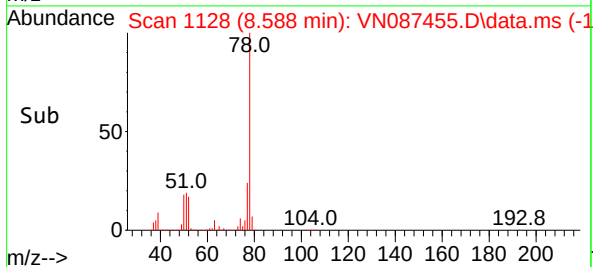
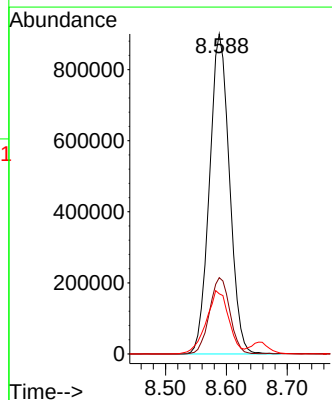
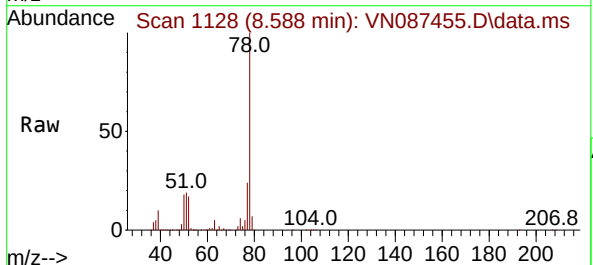
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tgt Ion:117 Resp: 683314  
Ion Ratio Lower Upper  
117 100  
119 92.8 73.4 110.0  
121 31.2 21.1 31.7

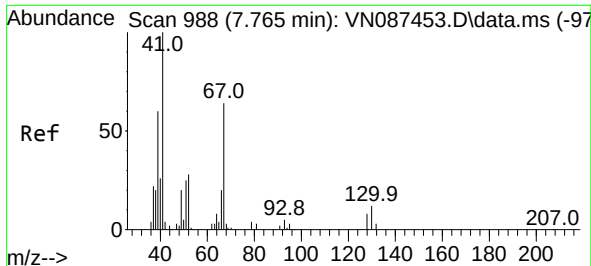


#34  
Benzene  
Concen: 102.292 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 78 Resp: 2050407  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.2 28.8  
51 18.7 16.9 25.3



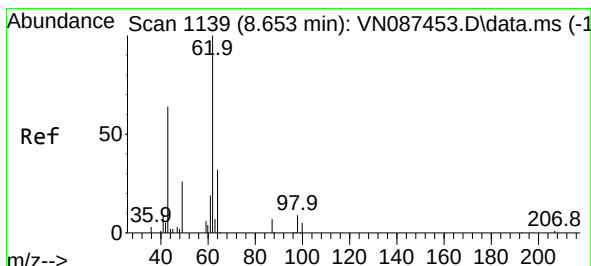
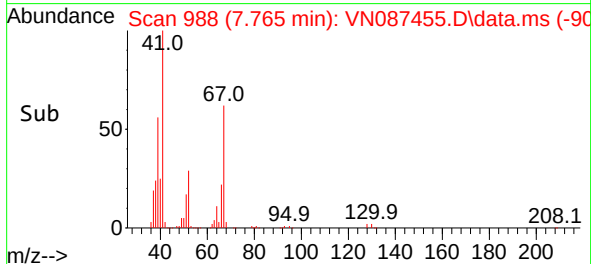
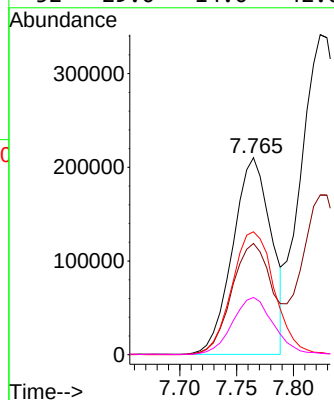
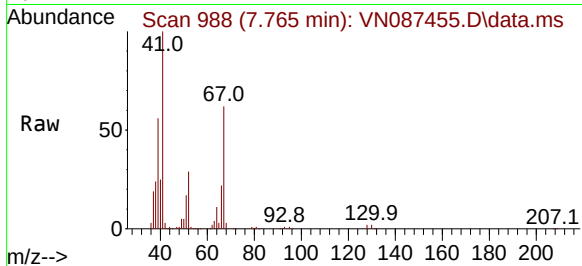




#35  
Methacrylonitrile  
Concen: 98.134 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

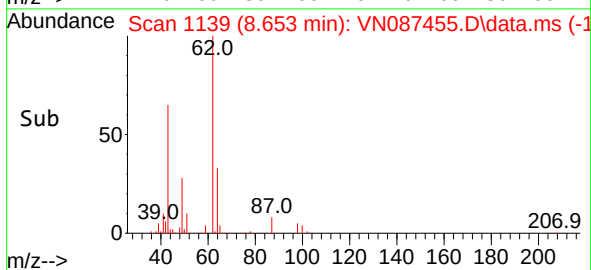
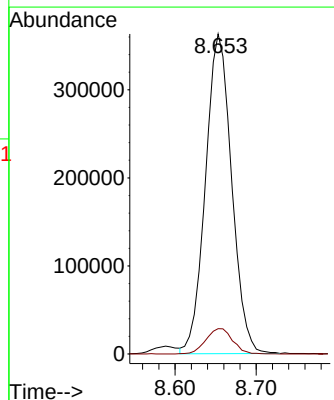
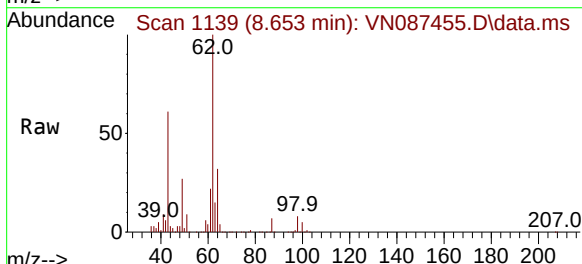
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

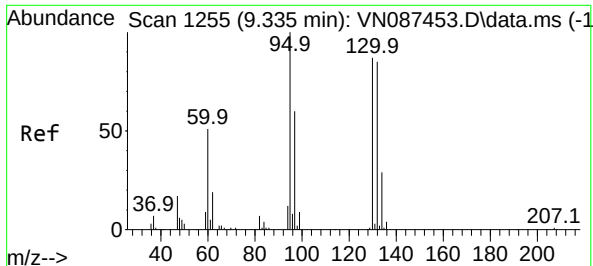
Tgt Ion: 41 Resp: 495672  
Ion Ratio Lower Upper  
41 100  
39 56.4 30.1 90.5  
67 62.5 32.0 96.2  
52 29.0 14.0 42.0



#36  
1,2-Dichloroethane  
Concen: 100.306 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 62 Resp: 812745  
Ion Ratio Lower Upper  
62 100  
98 8.1 6.6 9.8

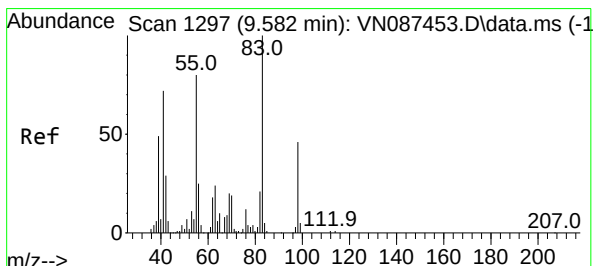
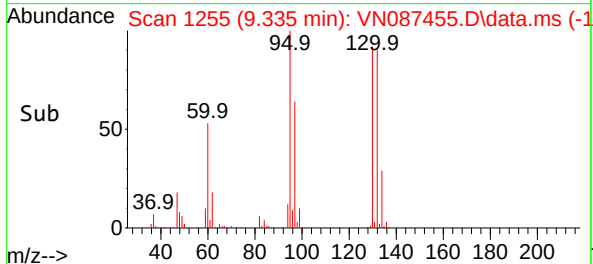
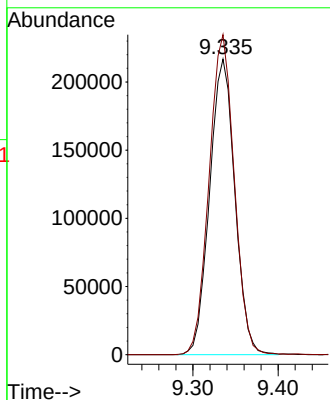
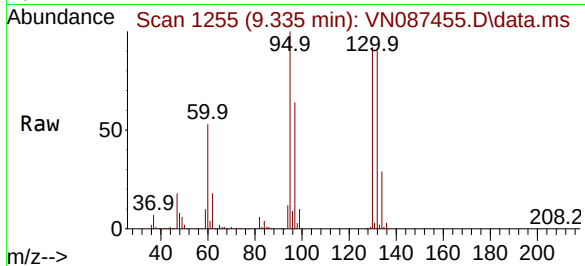




#37  
Trichloroethene  
Concen: 101.212 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

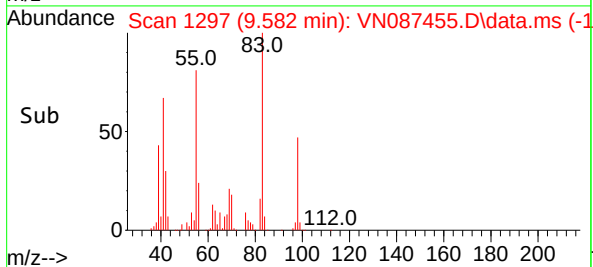
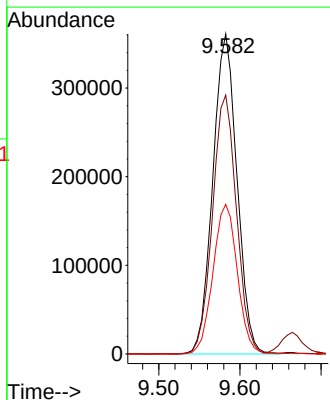
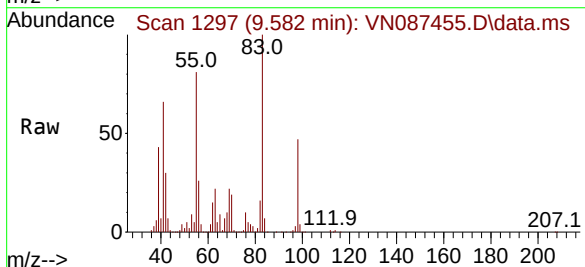
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

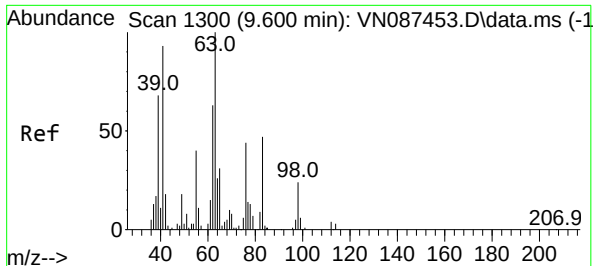
Tgt Ion:130 Resp: 446892  
Ion Ratio Lower Upper  
130 100  
95 108.1 91.4 137.2



#38  
Methylcyclohexane  
Concen: 101.482 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 83 Resp: 747573  
Ion Ratio Lower Upper  
83 100  
55 80.4 41.2 123.6  
98 47.0 23.3 69.9





#39

1,2-Dichloropropane

Concen: 100.868 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

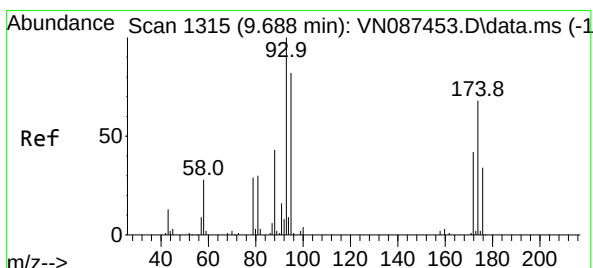
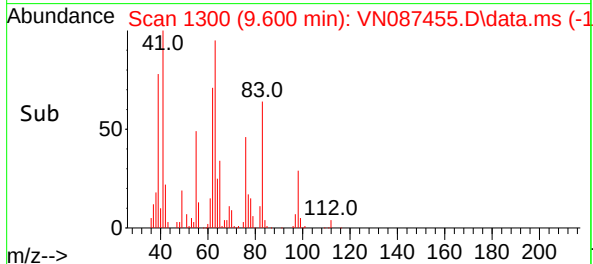
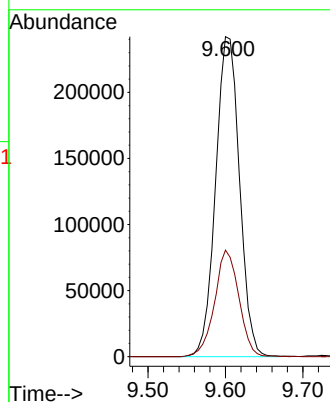
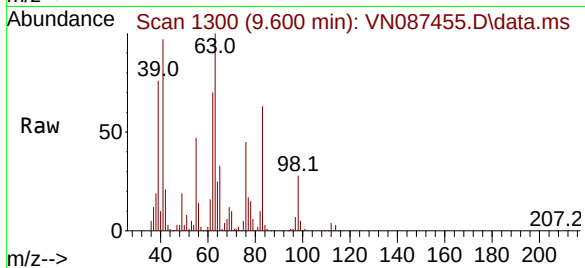
VSTDICC100

Tgt Ion: 63 Resp: 518393

Ion Ratio Lower Upper

63 100

65 33.3 24.6 36.8



#40

Dibromomethane

Concen: 100.231 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

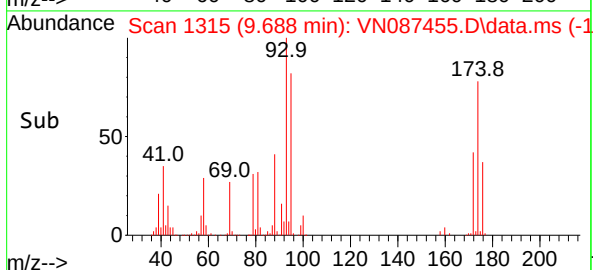
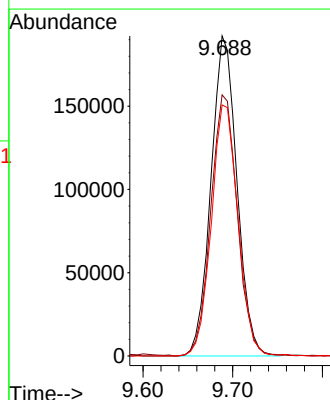
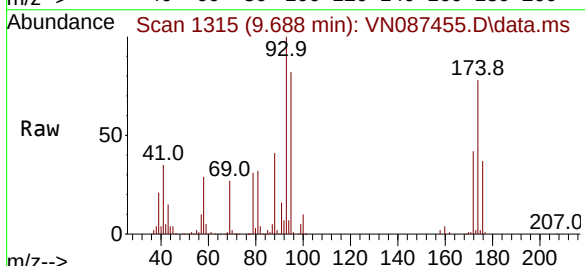
Tgt Ion: 93 Resp: 386489

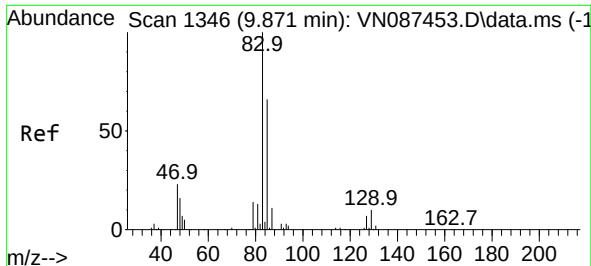
Ion Ratio Lower Upper

93 100

95 83.5 0.0 161.6

174 80.4 0.0 151.4

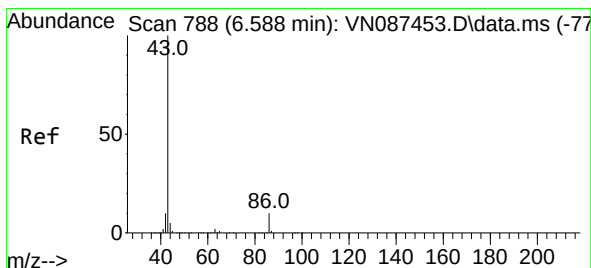
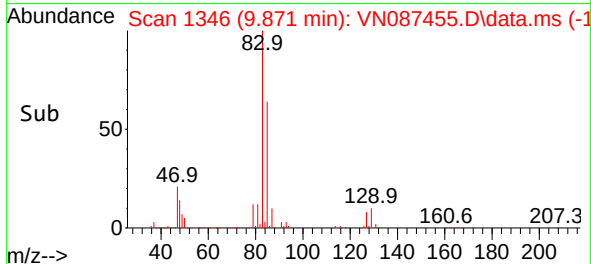
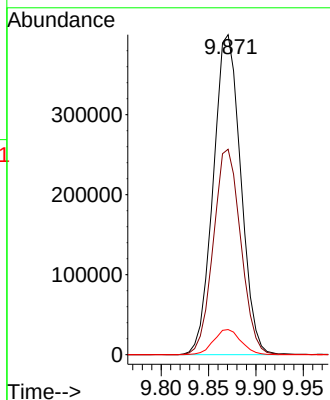
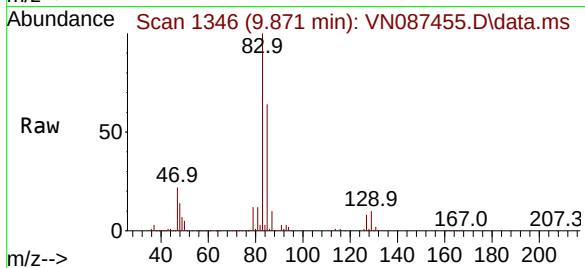




#41  
Bromodichloromethane  
Concen: 100.928 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

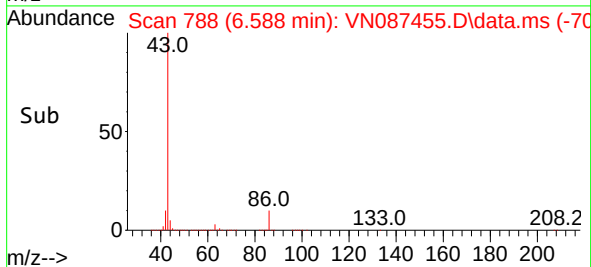
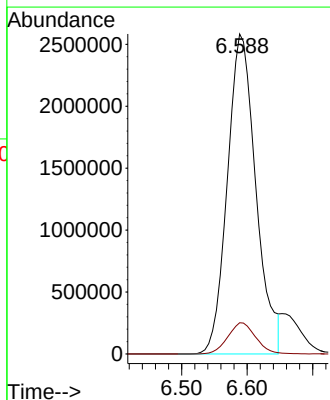
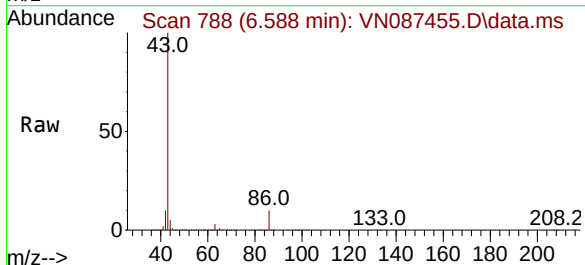
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

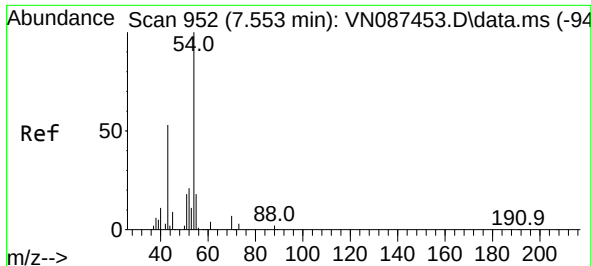
Tgt Ion: 83 Resp: 808690  
Ion Ratio Lower Upper  
83 100  
85 64.2 52.9 79.3  
127 7.9 5.8 8.6



#42  
Vinyl Acetate  
Concen: 507.335 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 7820160  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.3 10.9

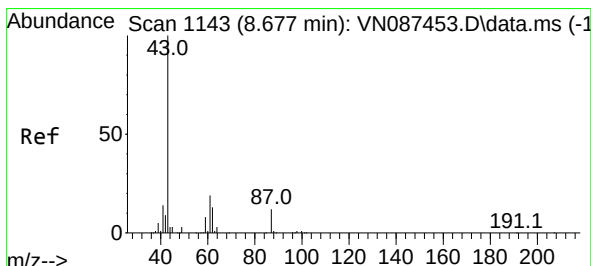
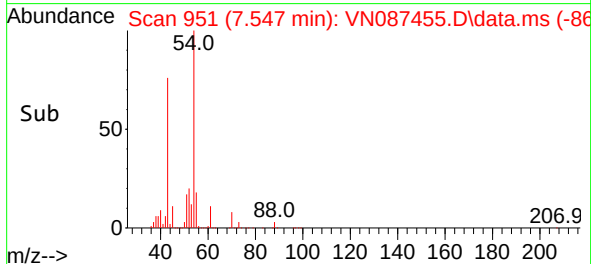
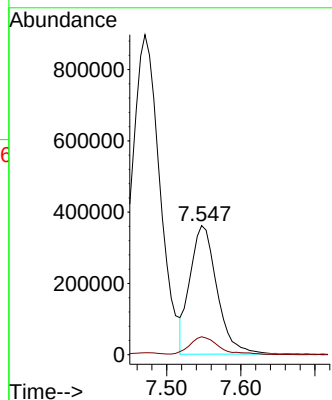
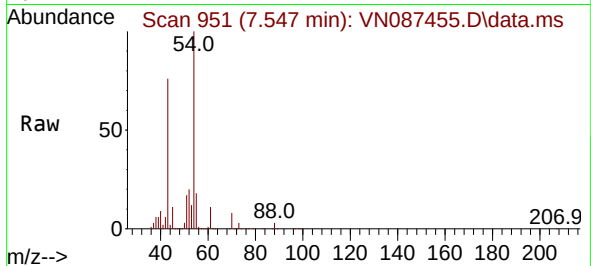




#43  
Ethyl Acetate  
Concen: 101.868 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

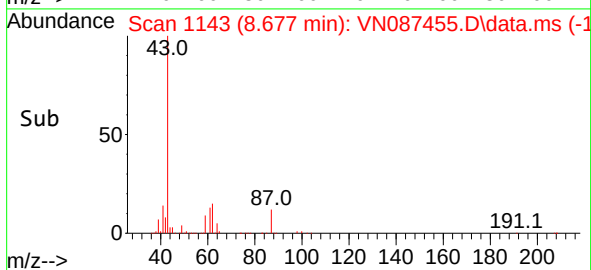
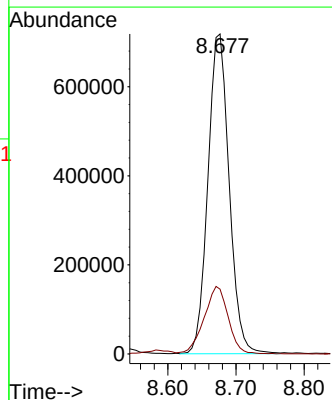
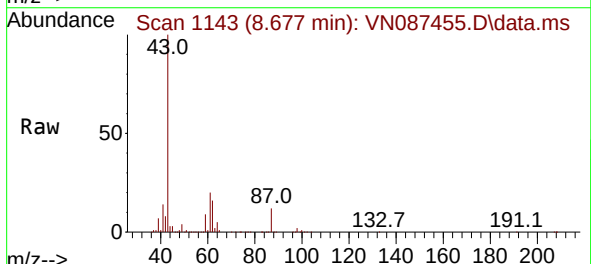
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

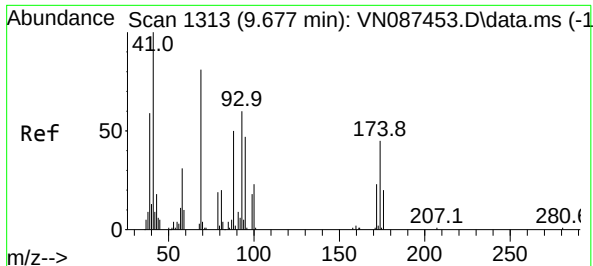
Tgt Ion: 43 Resp: 907628  
Ion Ratio Lower Upper  
43 100  
45 15.2 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 101.675 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 1558470  
Ion Ratio Lower Upper  
43 100  
61 24.0 18.6 28.0





#45

1,4-Dioxane

Concen: 1985.385 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

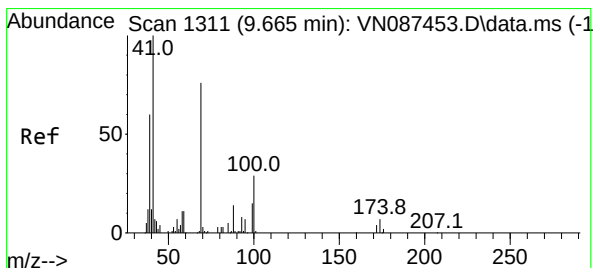
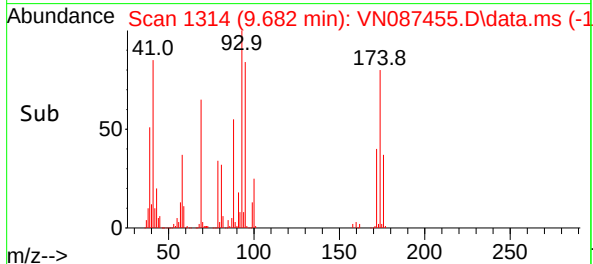
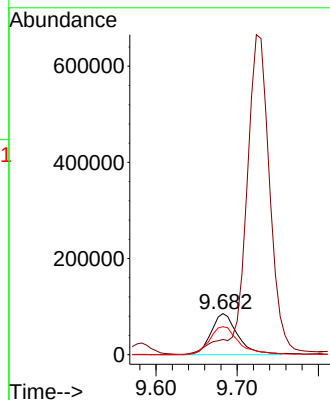
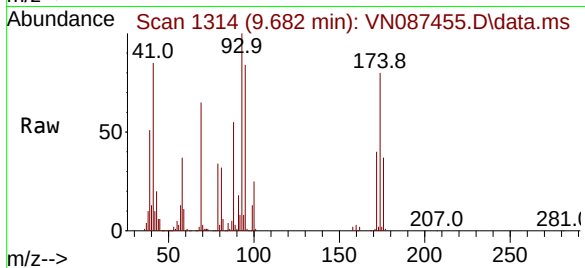
Tgt Ion: 88 Resp: 194002

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

58 75.8 57.2 85.8



#46

Methyl methacrylate

Concen: 101.273 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

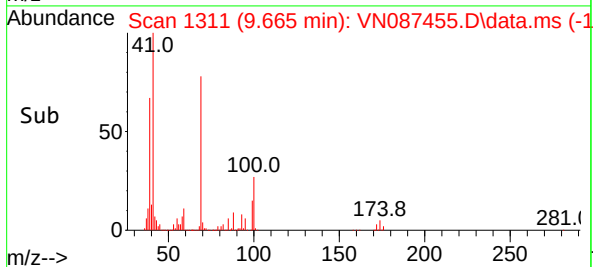
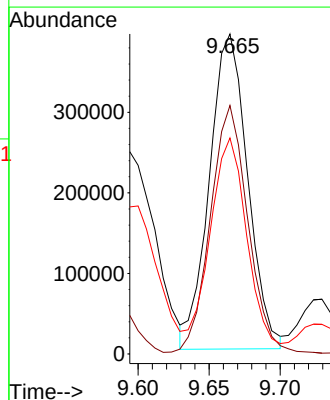
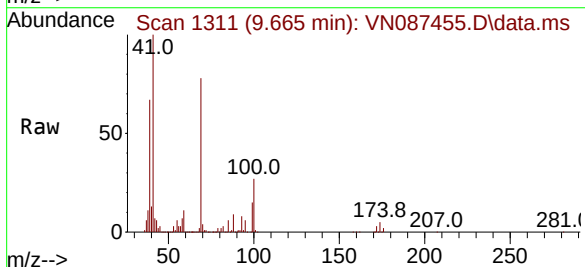
Tgt Ion: 41 Resp: 732745

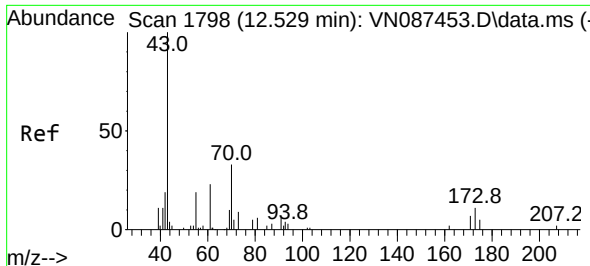
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 68.0 30.7 92.1

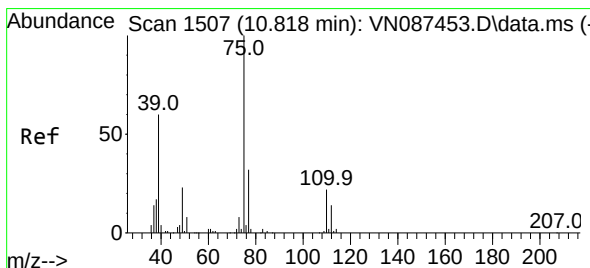
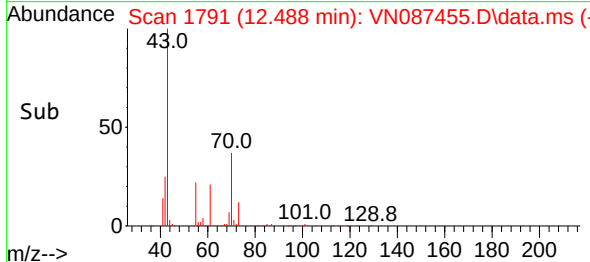
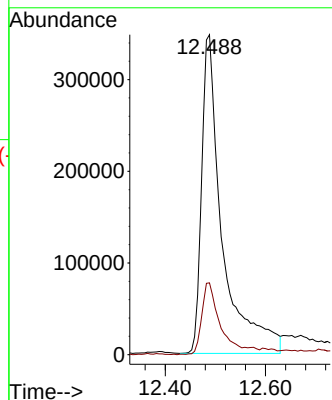
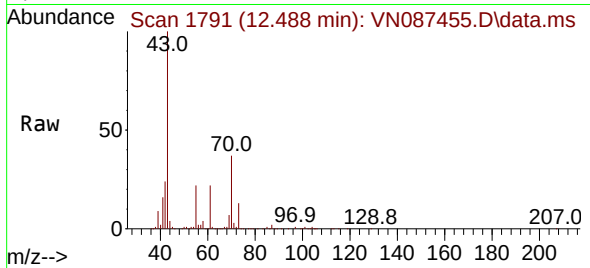




#47  
n-amy1 Acetate  
Concen: 128.748 ug/l  
RT: 12.488 min Scan# 11  
Delta R.T. -0.041 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

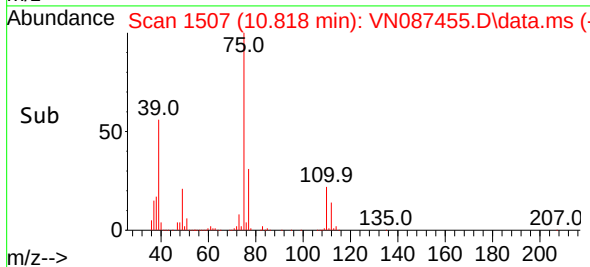
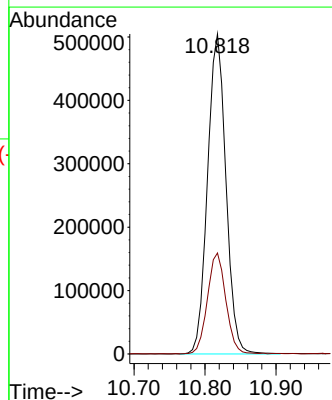
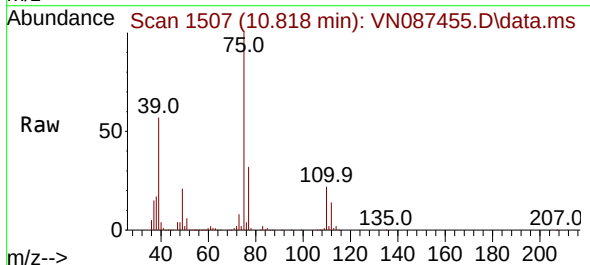
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MSVOA\_N  
ClientSampleId :  
VSTDICC100

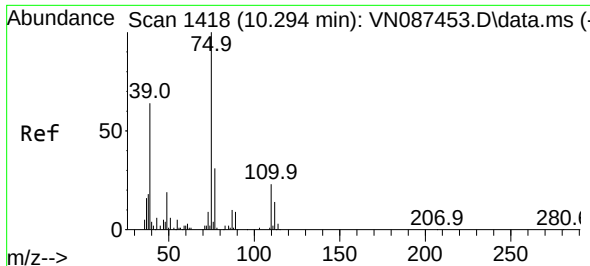
Tgt Ion: 43 Resp: 992295  
Ion Ratio Lower Upper  
43 100  
55 19.3 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 104.188 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 908224  
Ion Ratio Lower Upper  
75 100  
77 31.5 25.3 37.9

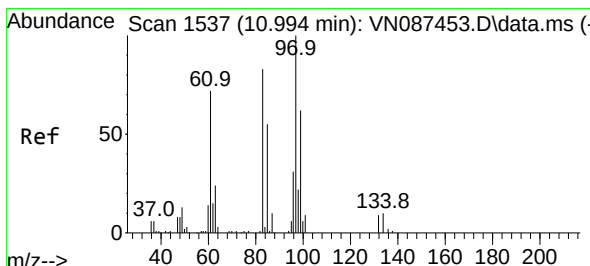
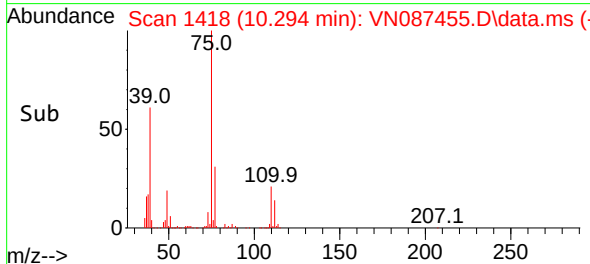
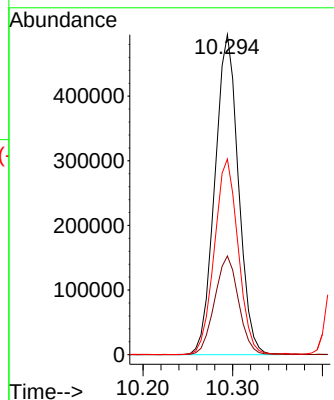
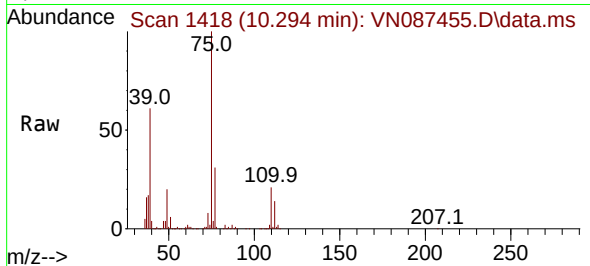




#49  
 cis-1,3-Dichloropropene  
 Concen: 102.958 ug/l  
 RT: 10.294 min Scan# 1418  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

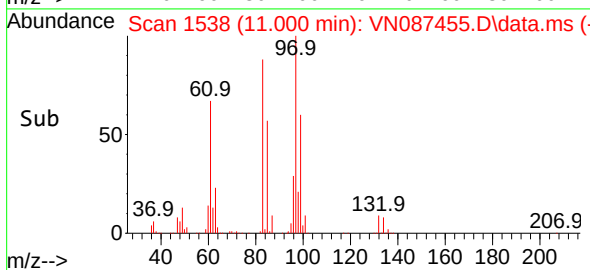
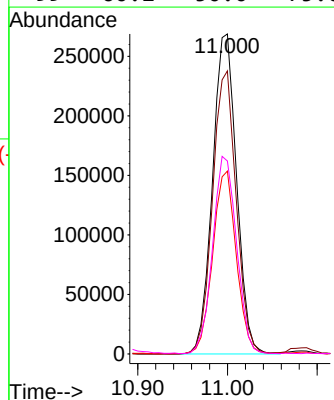
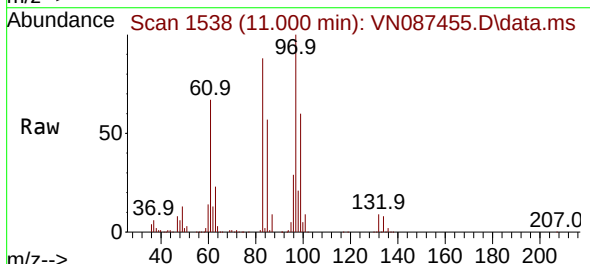
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

Tgt Ion: 75 Resp: 903230  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 24.6 36.8  
 39 61.1 51.5 77.3

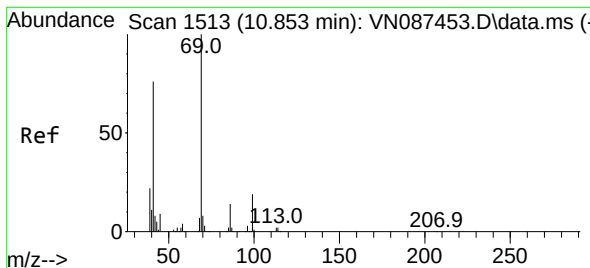


#50  
 1,1,2-Trichloroethane  
 Concen: 102.720 ug/l  
 RT: 11.000 min Scan# 1538  
 Delta R.T. 0.006 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 500440  
 Ion Ratio Lower Upper  
 97 100  
 83 88.4 66.2 99.2  
 85 57.1 43.9 65.9  
 99 60.2 50.0 75.0



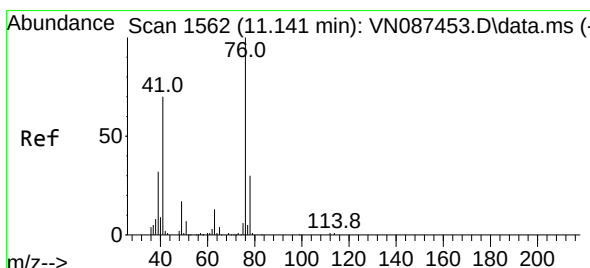
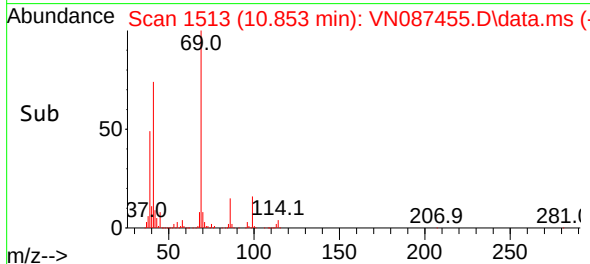
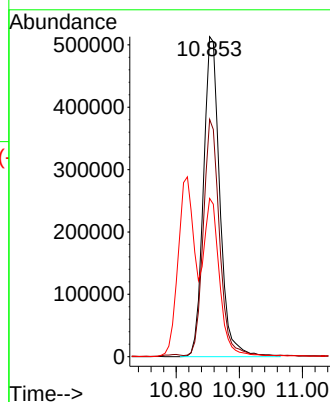
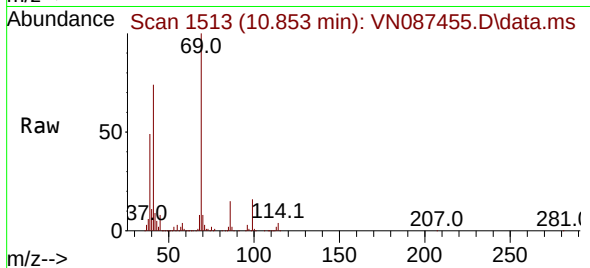




#51  
Ethyl methacrylate  
Concen: 108.040 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

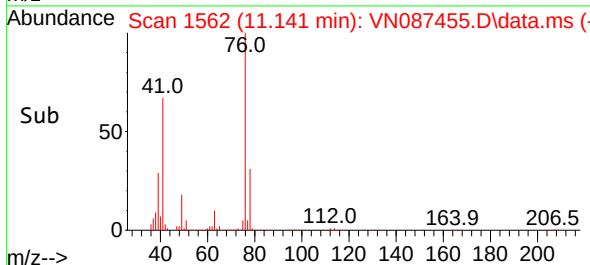
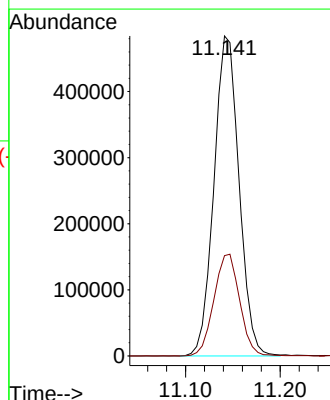
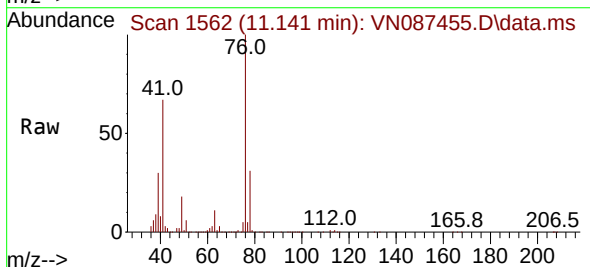
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

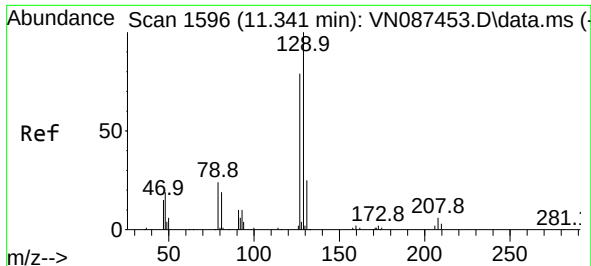
Tgt Ion: 69 Resp: 926992  
Ion Ratio Lower Upper  
69 100  
41 73.7 38.0 114.1  
39 49.1 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 101.657 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 76 Resp: 892266  
Ion Ratio Lower Upper  
76 100  
78 32.6 0.0 63.0

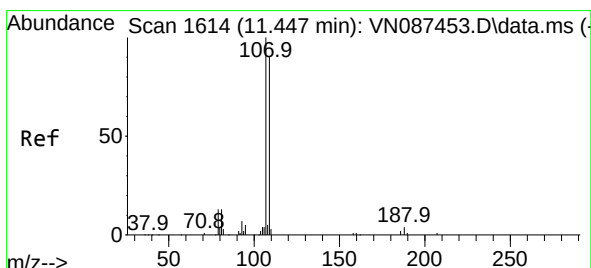
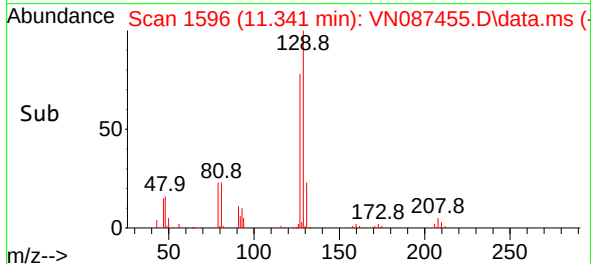
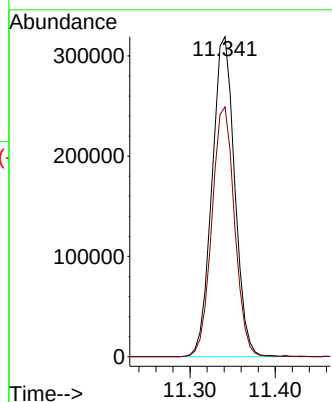
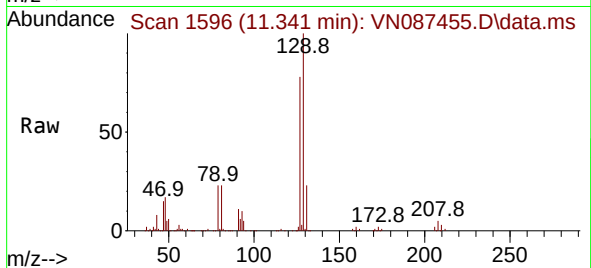




#53  
Dibromochloromethane  
Concen: 104.918 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

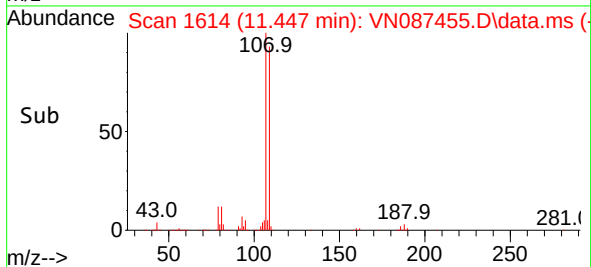
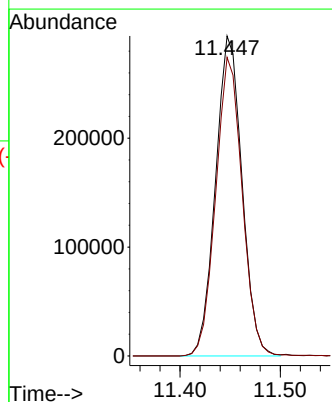
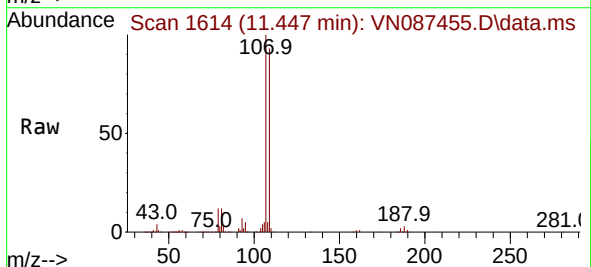
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

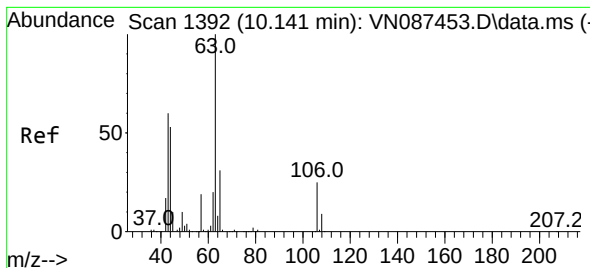
Tgt Ion:129 Resp: 590310  
Ion Ratio Lower Upper  
129 100  
127 78.0 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 103.987 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:107 Resp: 537806  
Ion Ratio Lower Upper  
107 100  
109 93.3 74.2 111.4

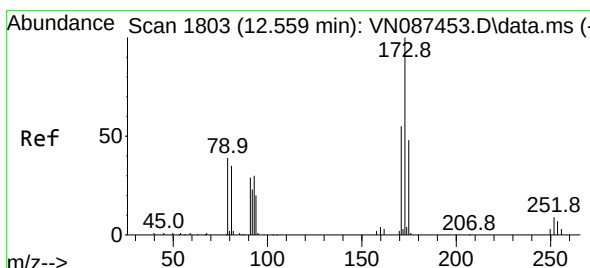
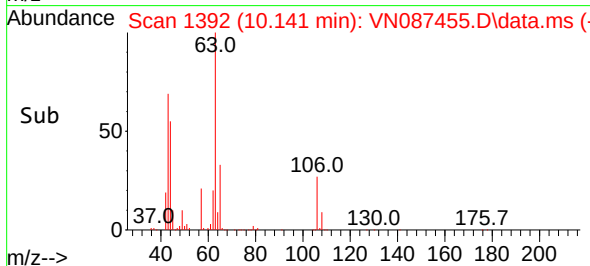
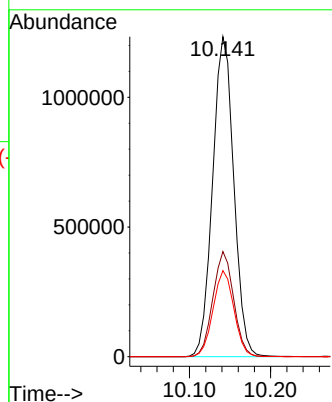
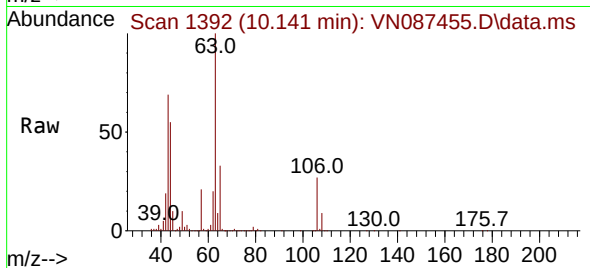




#55  
2-Chloroethyl vinyl ether  
Concen: 495.251 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

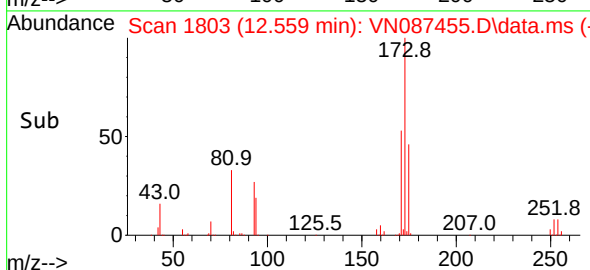
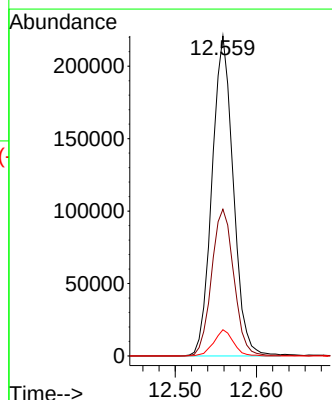
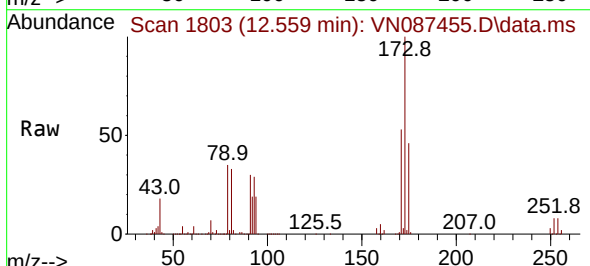
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

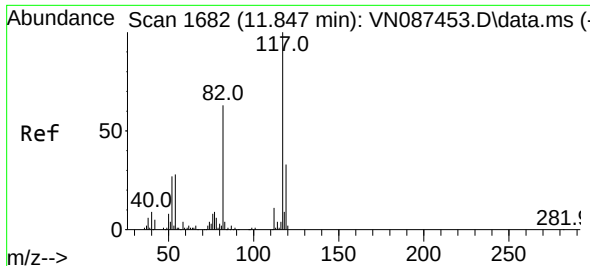
Tgt Ion: 63 Resp: 2236990  
Ion Ratio Lower Upper  
63 100  
65 32.2 25.7 38.5  
106 26.5 20.7 31.1



#56  
Bromoform  
Concen: 108.214 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 173 Resp: 402717  
Ion Ratio Lower Upper  
173 100  
175 47.8 38.8 58.2  
254 7.6 3.9 5.9#

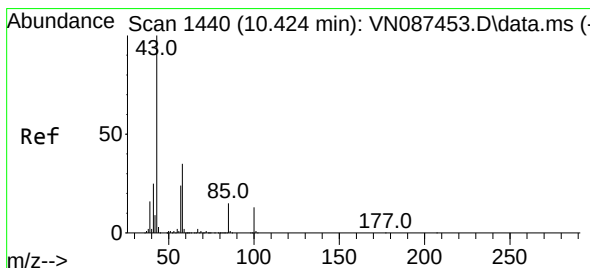
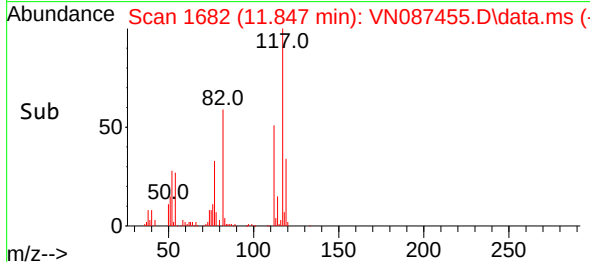
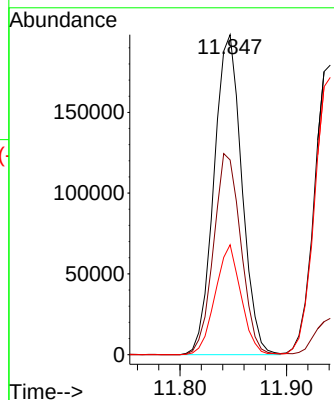
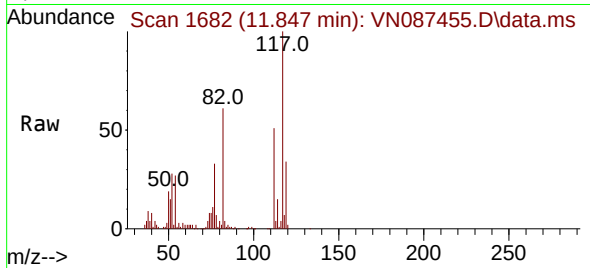




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1182  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

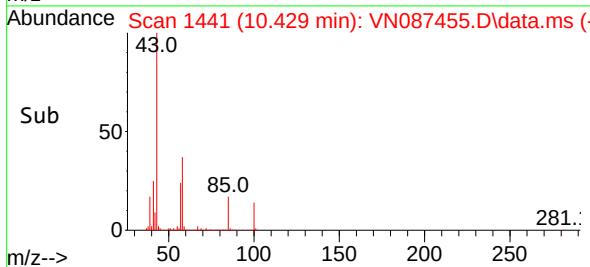
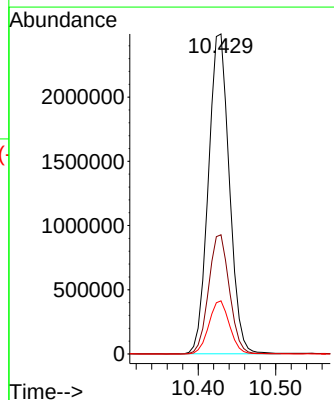
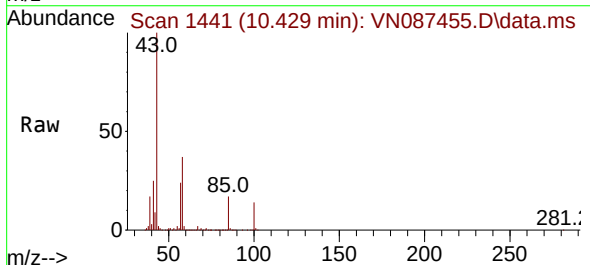
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

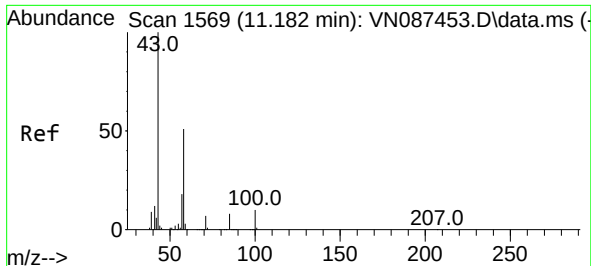
Tgt Ion:117 Resp: 359656  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.2 73.8  
119 31.8 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 505.641 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 4678202  
Ion Ratio Lower Upper  
43 100  
58 37.1 29.0 43.6  
85 16.4 12.7 19.1

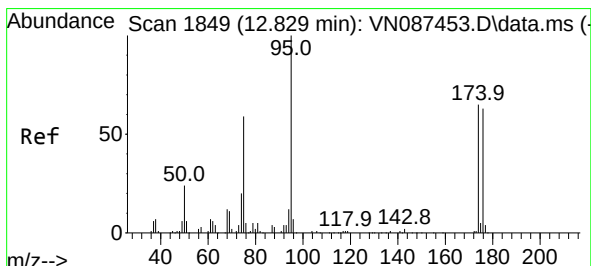
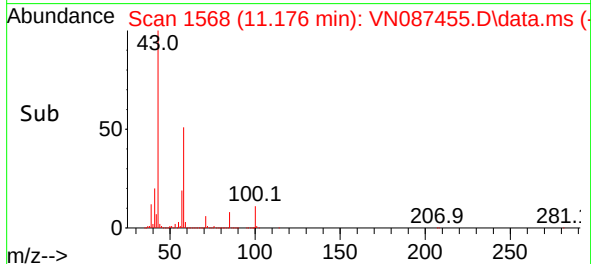
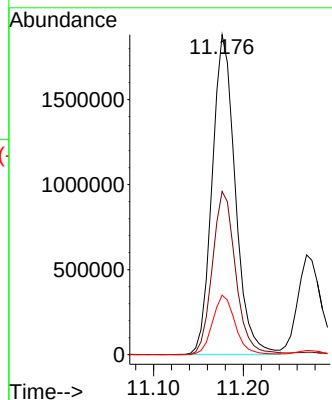
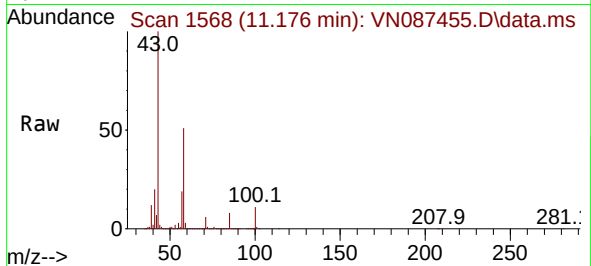




#59  
2-Hexanone  
Concen: 535.301 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

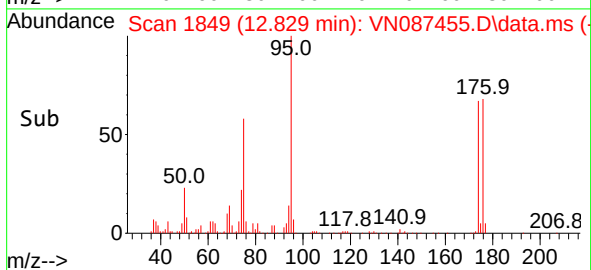
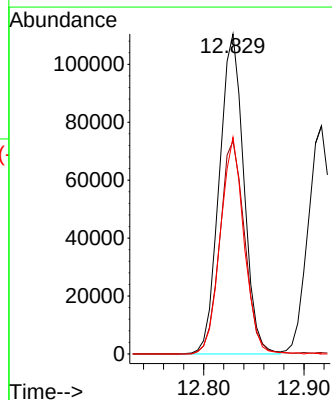
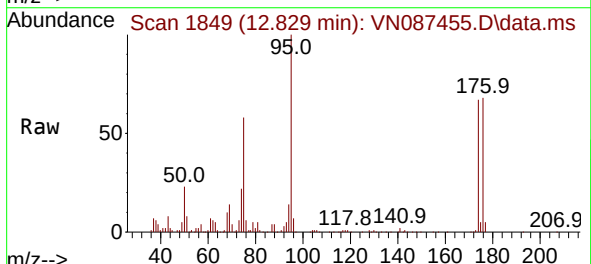
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

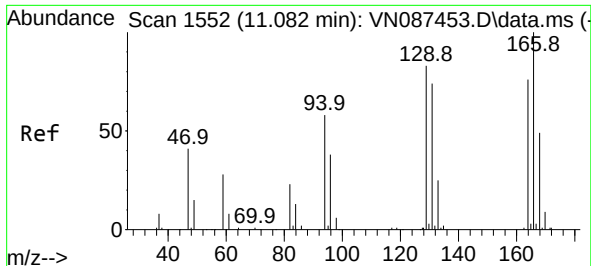
Tgt Ion: 43 Resp: 3365074  
Ion Ratio Lower Upper  
43 100  
58 51.4 41.0 61.6  
57 18.2 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 30.190 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 95 Resp: 186862  
Ion Ratio Lower Upper  
95 100  
174 67.7 52.3 78.5  
176 65.7 49.8 74.8

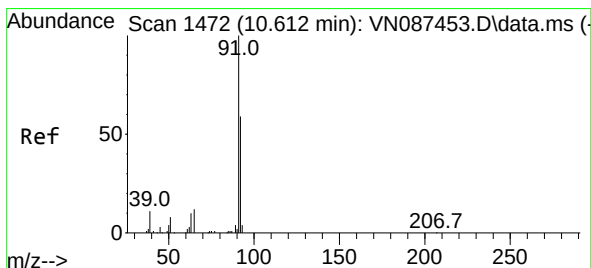
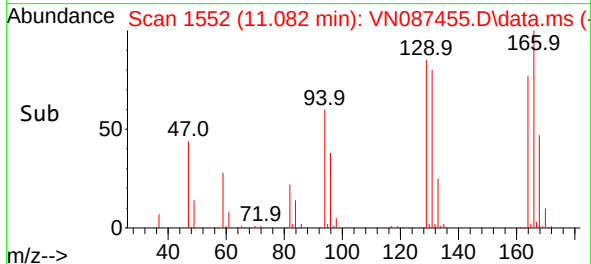
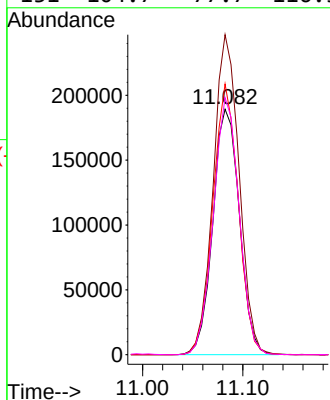
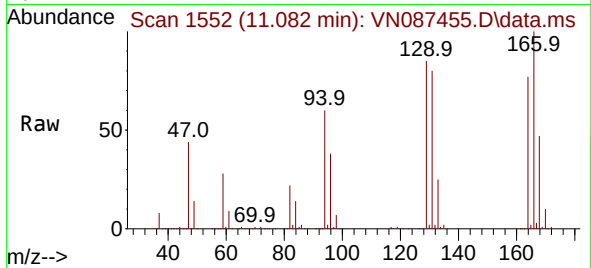




#61  
Tetrachloroethene  
Concen: 99.301 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

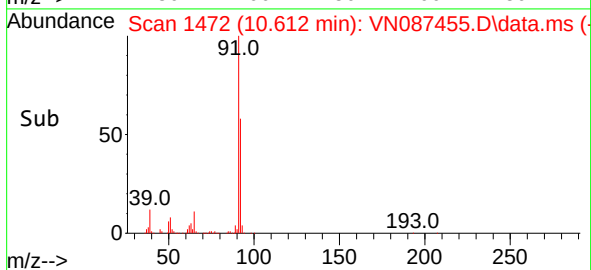
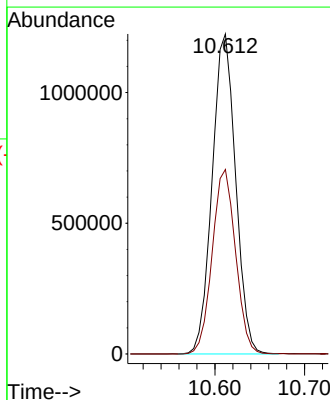
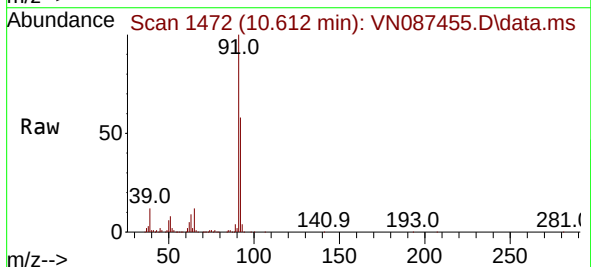
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

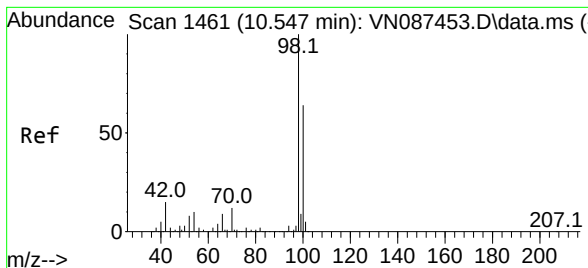
Tgt Ion:164 Resp: 347945  
Ion Ratio Lower Upper  
164 100  
166 130.3 105.4 158.0  
129 110.2 87.7 131.5  
131 104.7 77.7 116.5



#62  
Toluene  
Concen: 100.129 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2222660  
Ion Ratio Lower Upper  
91 100  
92 57.3 45.8 68.6





#63

Toluene-d8

Concen: 30.114 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

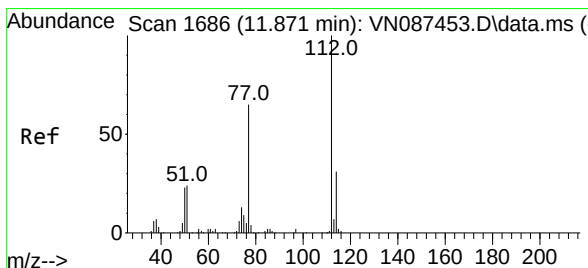
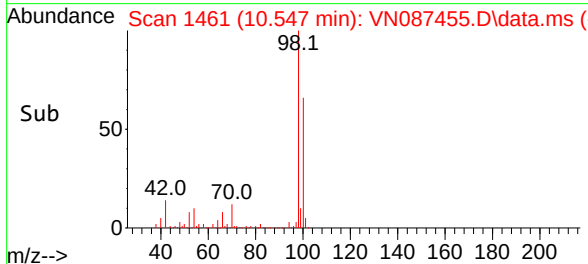
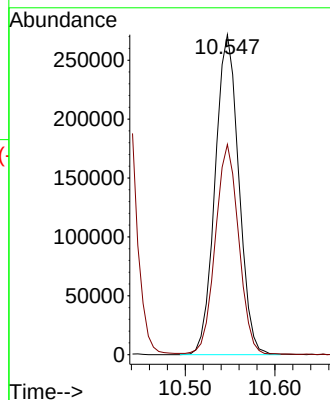
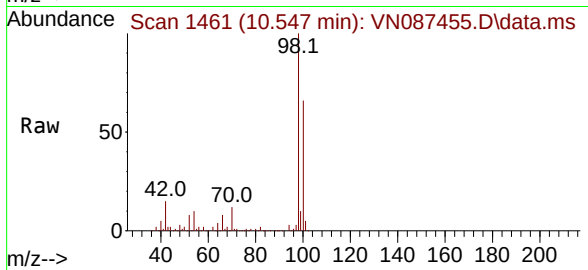
VSTDIC100

Tgt Ion: 98 Resp: 498338

Ion Ratio Lower Upper

98 100

100 64.2 50.5 75.7



#64

Chlorobenzene

Concen: 100.975 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN087455.D

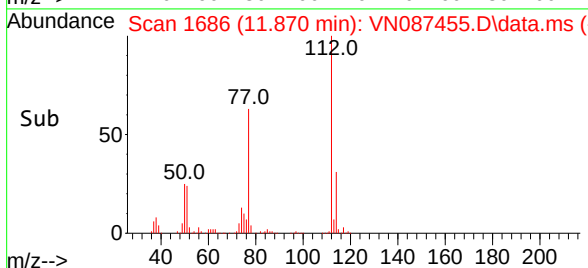
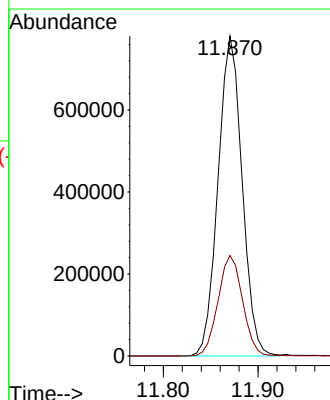
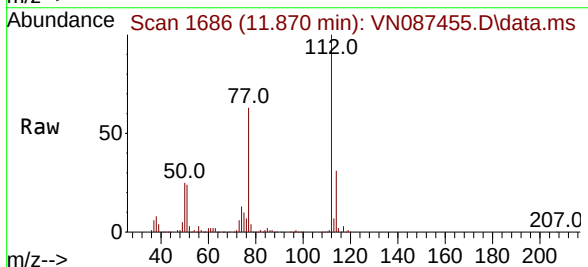
Acq: 05 Aug 2025 14:40

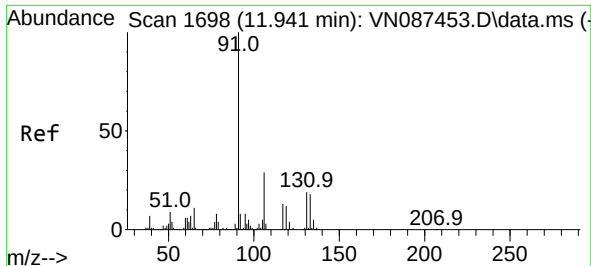
Tgt Ion: 112 Resp: 1377291

Ion Ratio Lower Upper

112 100

114 31.4 24.7 37.1

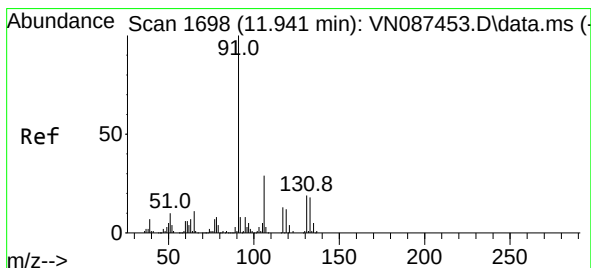
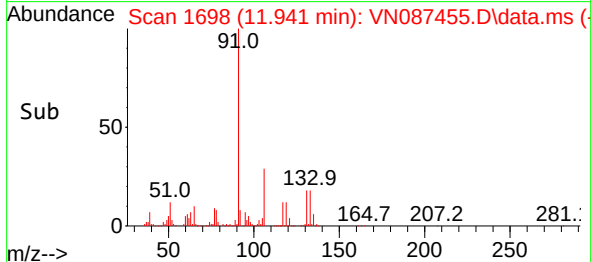
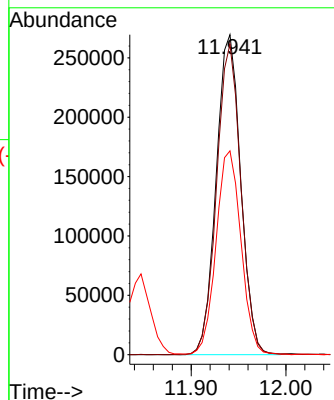
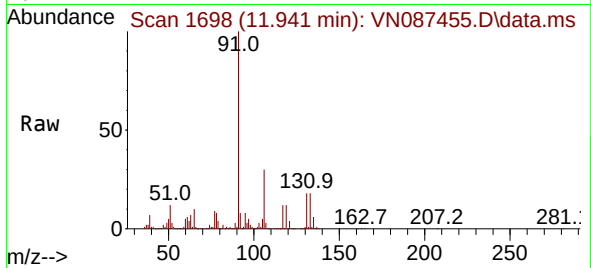




#65  
1,1,1,2-Tetrachloroethane  
Concen: 101.362 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

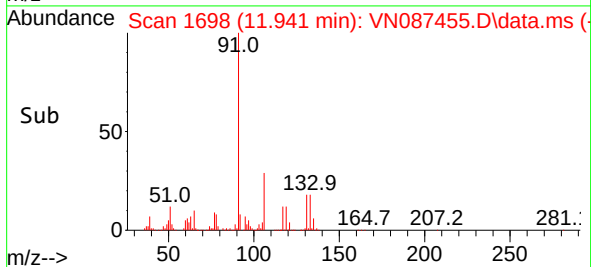
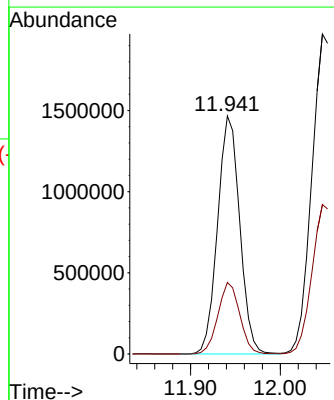
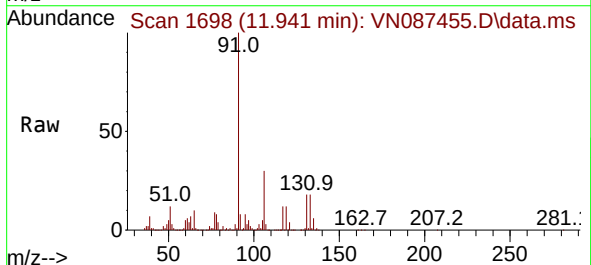
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tgt Ion:131 Resp: 486095  
Ion Ratio Lower Upper  
131 100  
133 95.9 0.0 189.8  
119 64.8 0.0 133.2

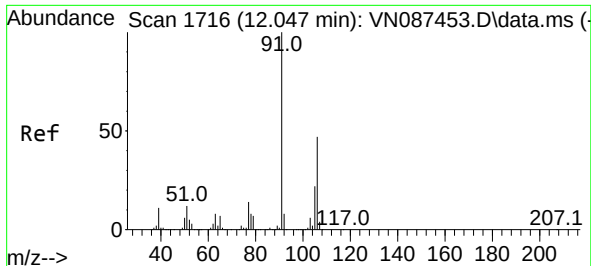


#66  
Ethyl Benzene  
Concen: 101.451 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2510073  
Ion Ratio Lower Upper  
91 100  
106 30.0 22.9 34.3



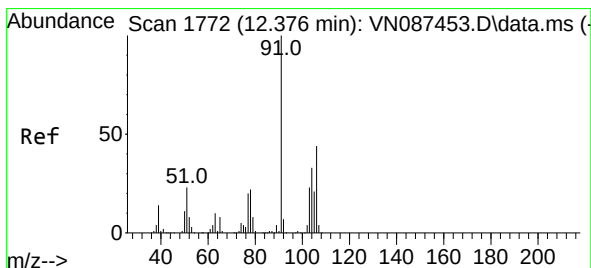
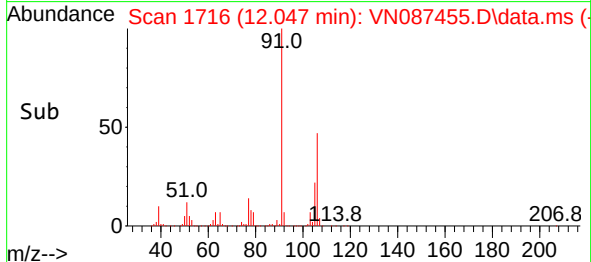
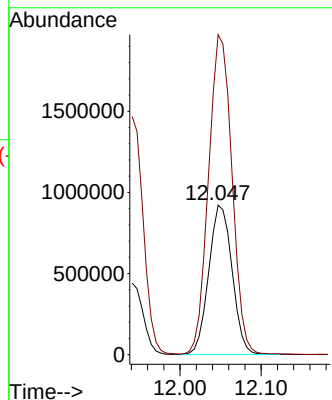
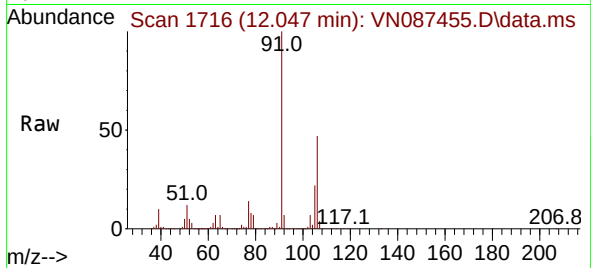




#67  
m/p-Xylenes  
Concen: 202.817 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

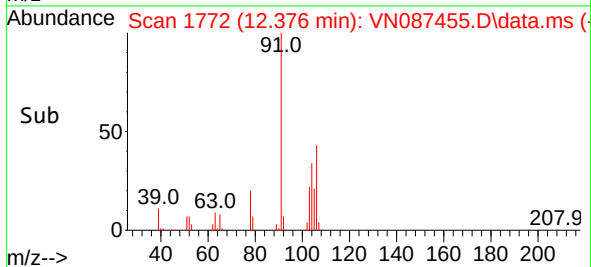
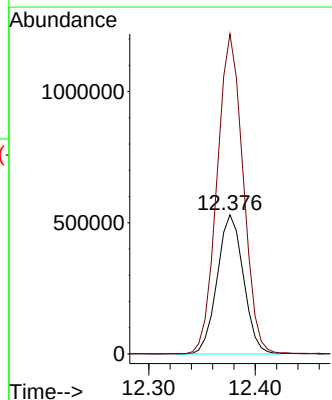
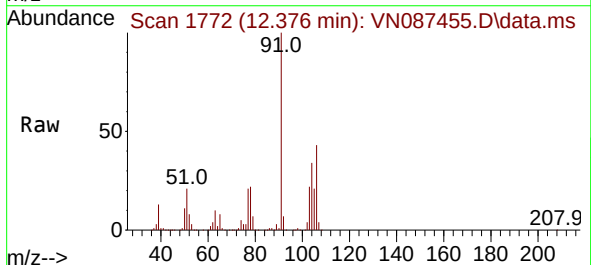
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

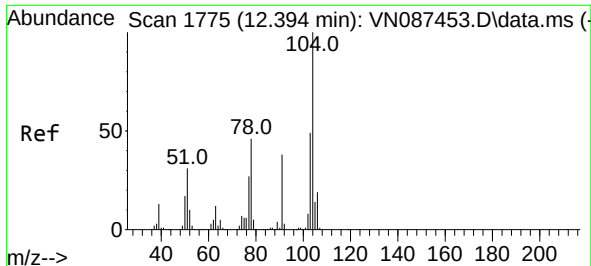
Tgt Ion:106 Resp: 1841924  
Ion Ratio Lower Upper  
106 100  
91 215.5 174.2 261.2



#68  
o-Xylene  
Concen: 101.440 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:106 Resp: 906317  
Ion Ratio Lower Upper  
106 100  
91 228.8 114.5 343.5

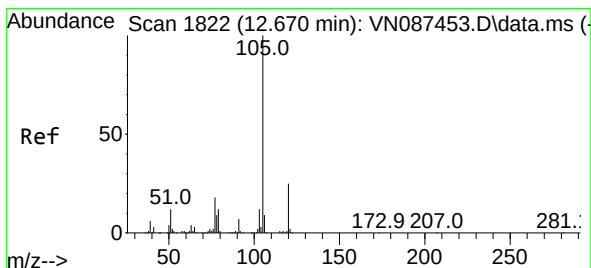
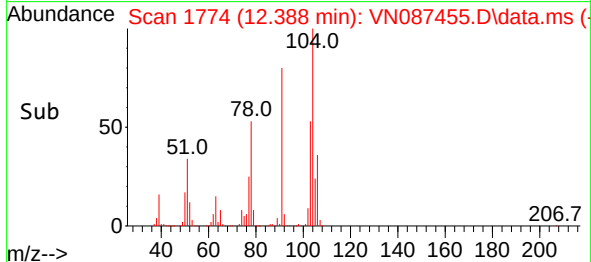
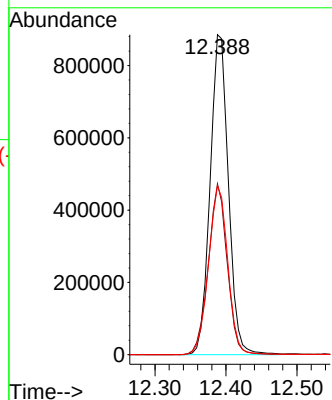
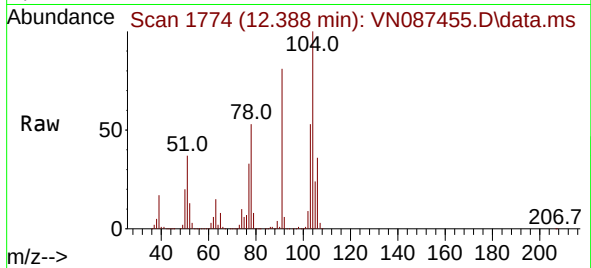




#69  
Styrene  
Concen: 103.928 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

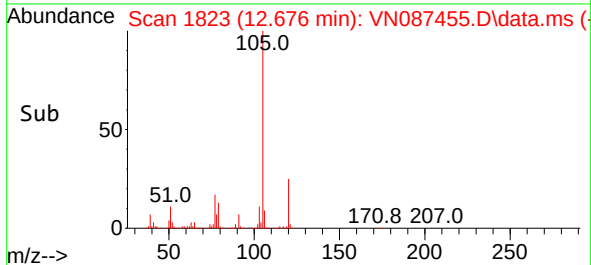
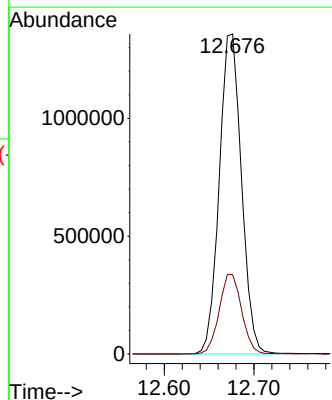
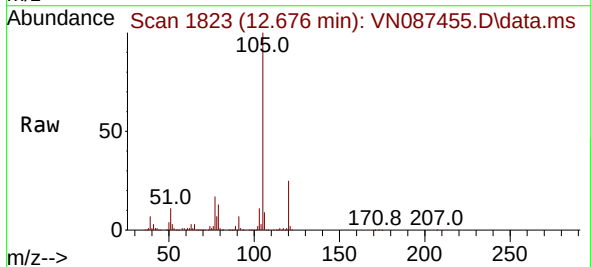
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

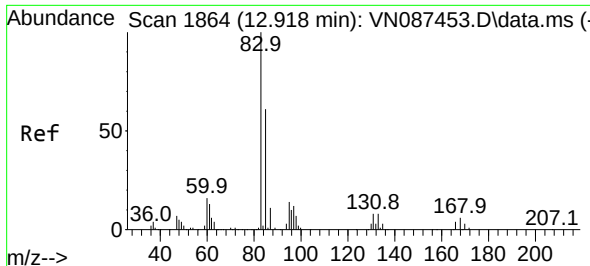
Tgt Ion:104 Resp: 1585501  
Ion Ratio Lower Upper  
104 100  
78 55.1 43.8 65.8  
103 55.4 43.1 64.7



#70  
Isopropylbenzene  
Concen: 102.833 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 2334192  
Ion Ratio Lower Upper  
105 100  
120 25.2 17.5 32.5

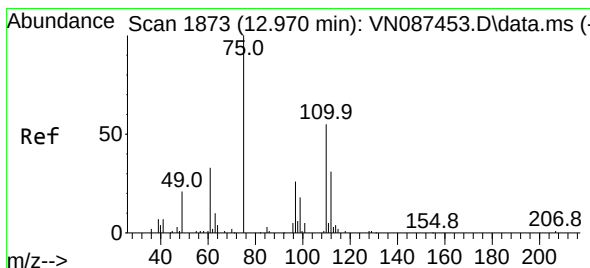
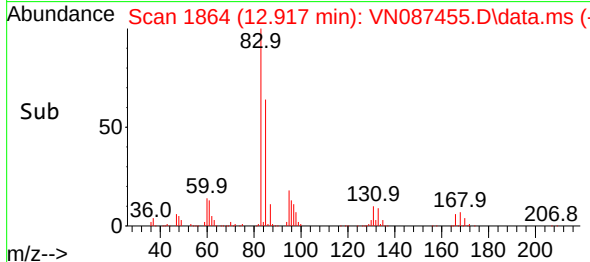
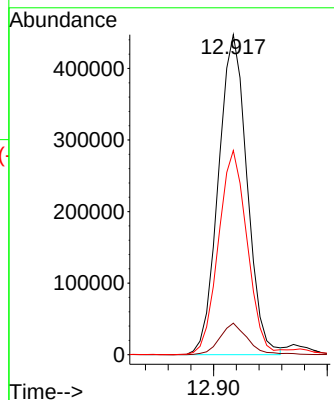
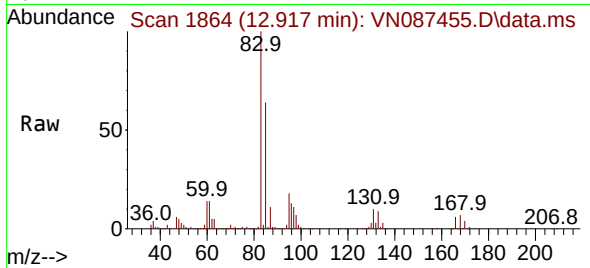




#71  
 1,1,2-Tetrachloroethane  
 Concen: 100.840 ug/l  
 RT: 12.917 min Scan# 1864  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

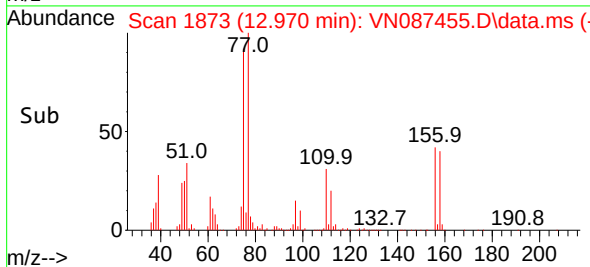
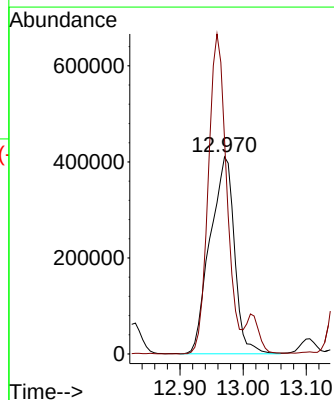
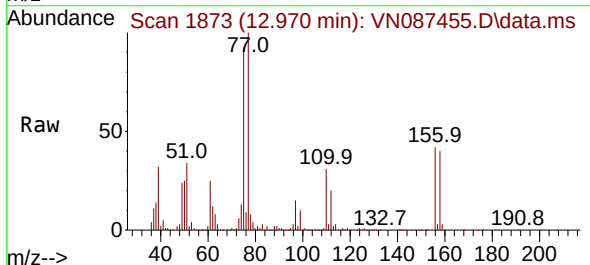
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

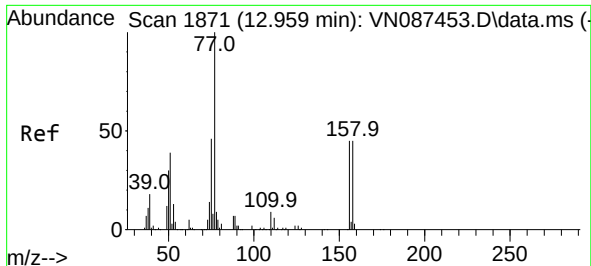
Tgt Ion: 83 Resp: 784278  
 Ion Ratio Lower Upper  
 83 100  
 131 9.3 4.8 14.3  
 85 63.8 31.7 95.1



#72  
 1,2,3-Trichloropropane  
 Concen: 137.681 ug/l  
 RT: 12.970 min Scan# 1873  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 1100704  
 Ion Ratio Lower Upper  
 75 100  
 77 122.6 0.0 385.0

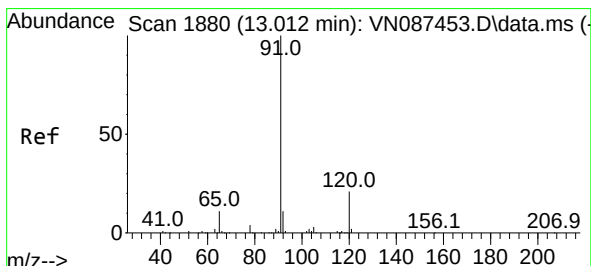
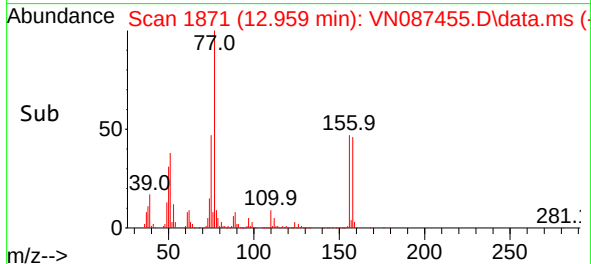
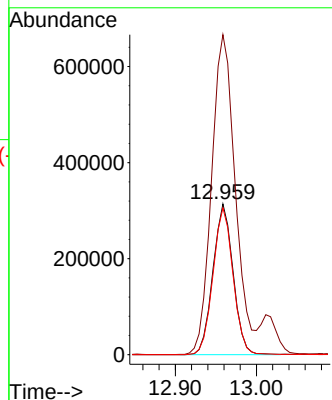
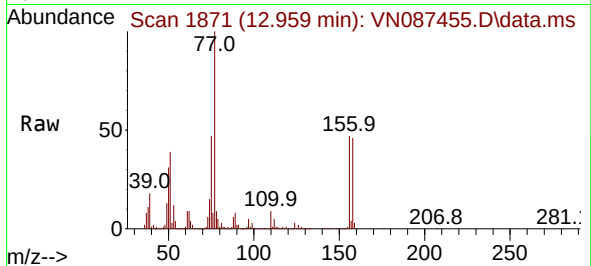




#73  
Bromobenzene  
Concen: 102.653 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

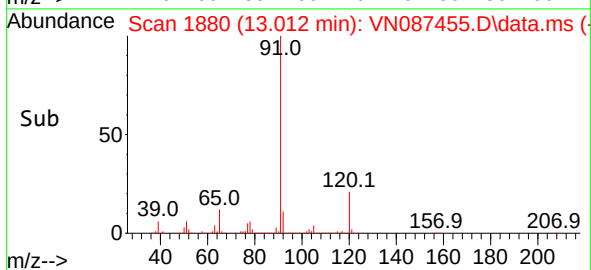
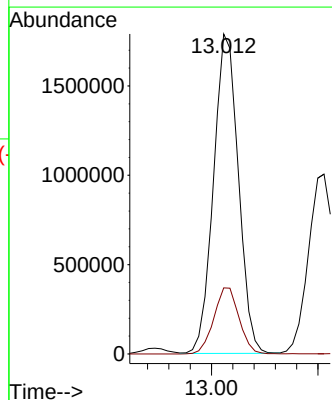
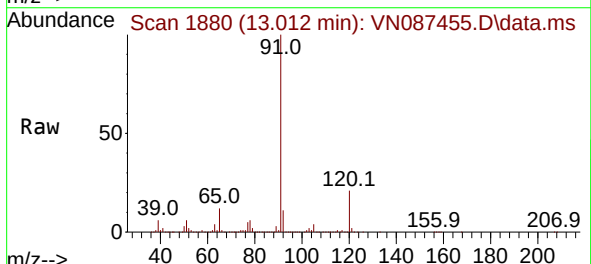
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

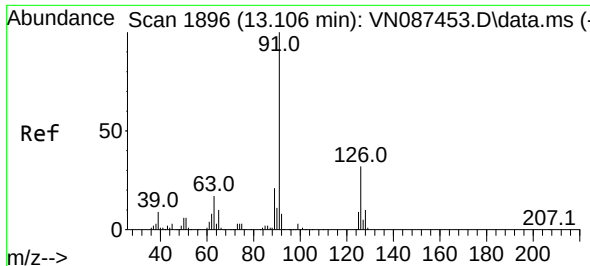
Tgt Ion:156 Resp: 540169  
Ion Ratio Lower Upper  
156 100  
77 249.8 0.0 506.6  
158 97.2 0.0 193.6



#74  
n-propylbenzene  
Concen: 102.142 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2895579  
Ion Ratio Lower Upper  
91 100  
120 21.0 0.0 41.8

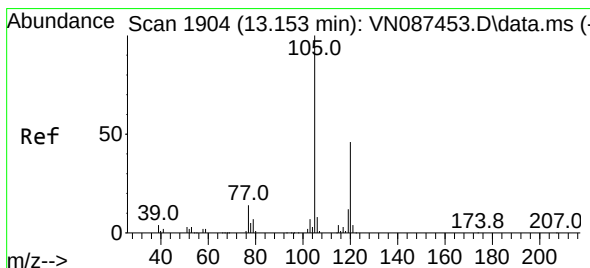
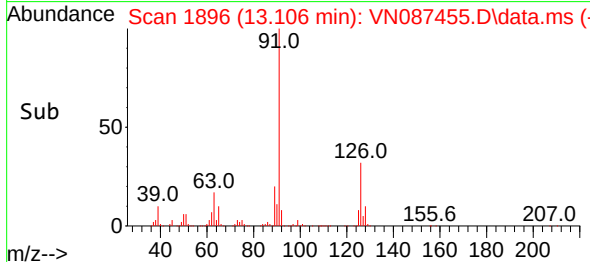
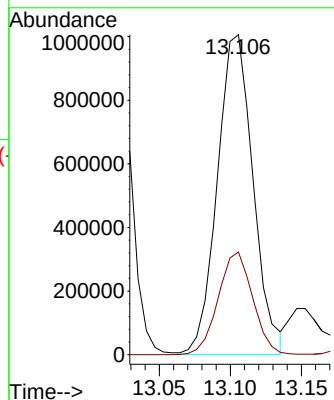
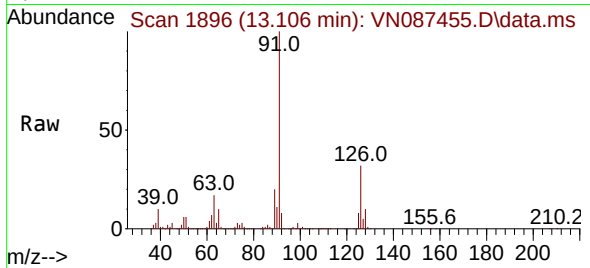




#75  
2-Chlorotoluene  
Concen: 100.765 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

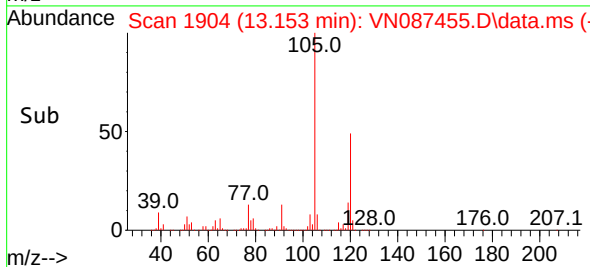
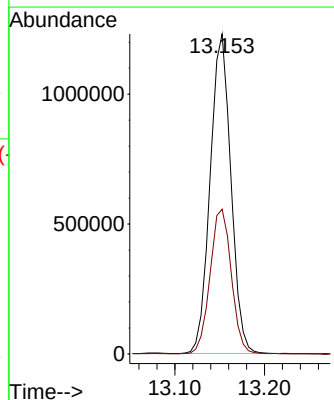
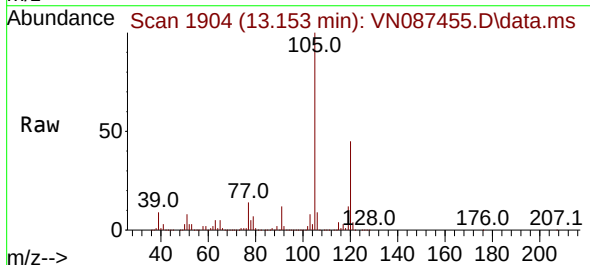
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

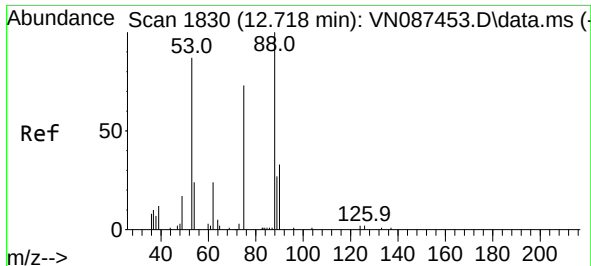
Tgt Ion: 91 Resp: 1757134  
Ion Ratio Lower Upper  
91 100  
126 31.1 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 101.515 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 105 Resp: 1972967  
Ion Ratio Lower Upper  
105 100  
120 46.6 0.0 91.2

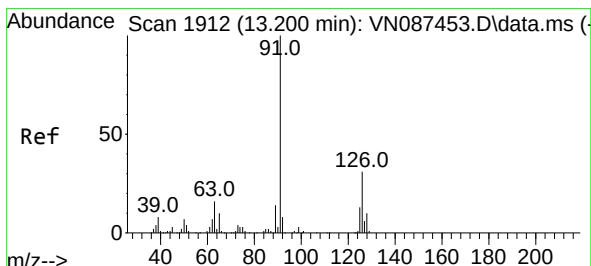
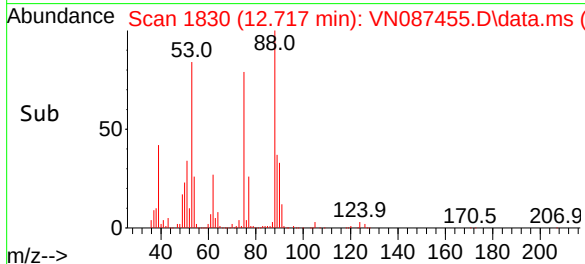
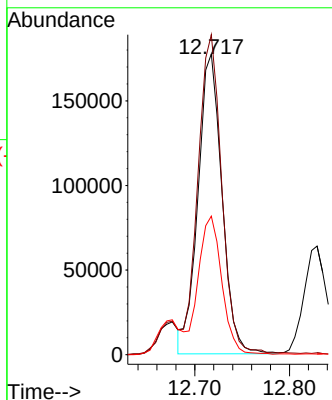
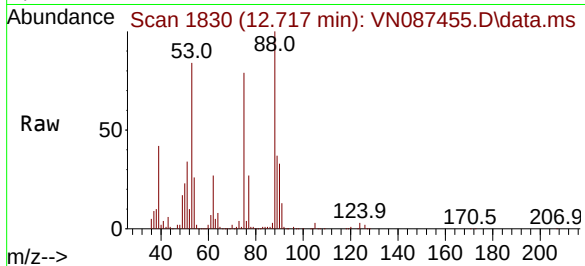




#77  
t-1,4-Dichloro-2-butene  
Concen: 113.952 ug/l  
RT: 12.717 min Scan# 1830  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

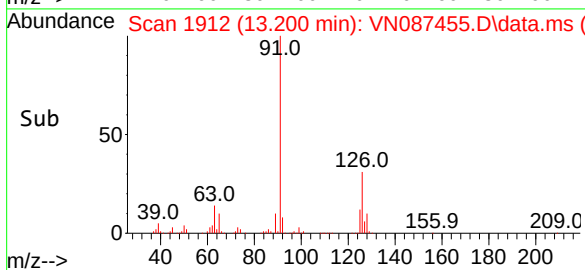
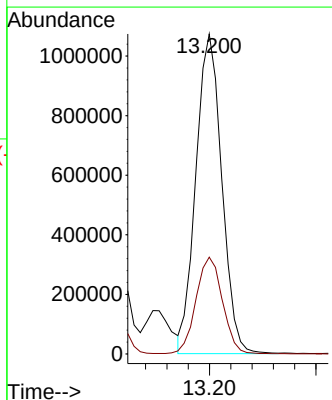
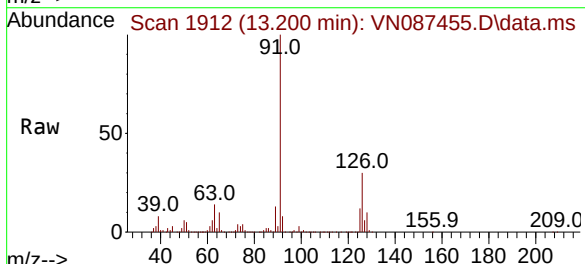
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

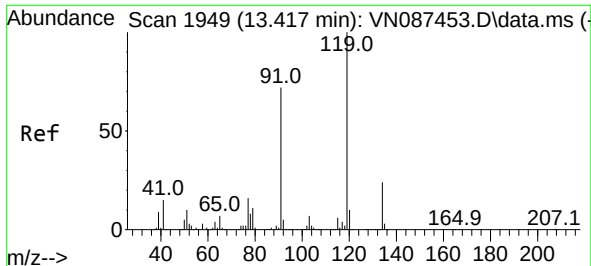
Tgt Ion: 75 Resp: 312541  
Ion Ratio Lower Upper  
75 100  
53 106.4 59.0 176.8  
89 46.1 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 102.633 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 1813669  
Ion Ratio Lower Upper  
91 100  
126 30.7 0.0 63.2

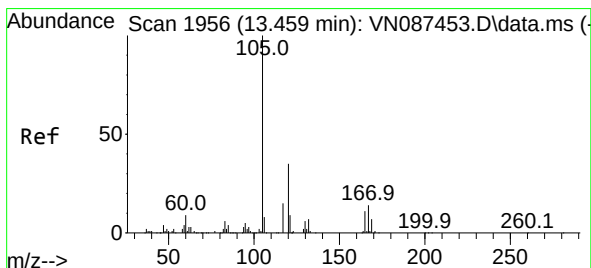
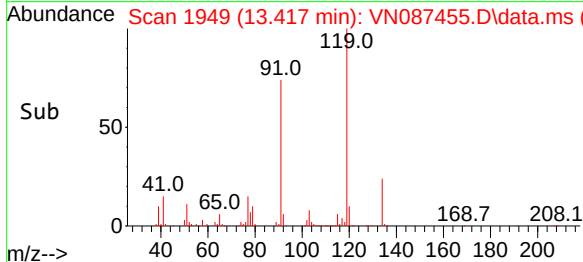
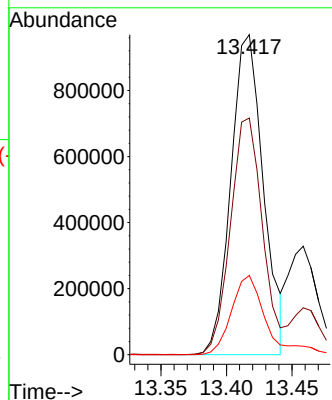
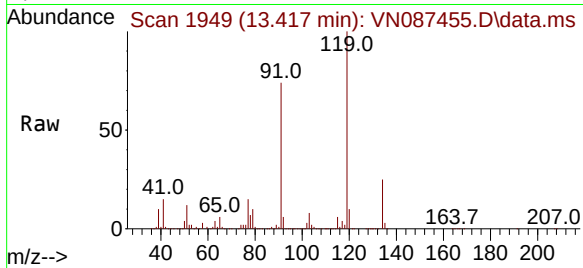




#79  
tert-butylbenzene  
Concen: 102.082 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

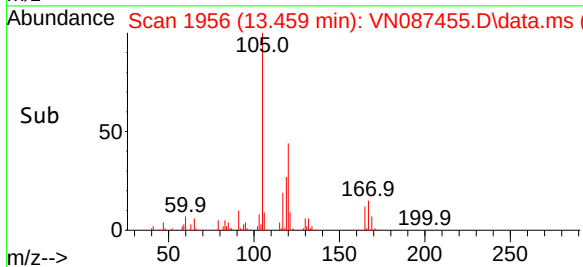
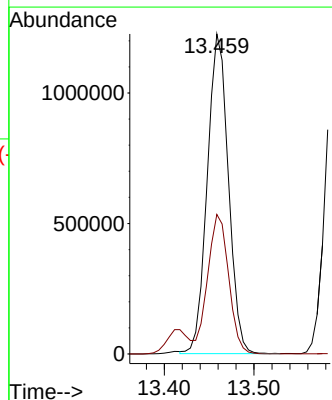
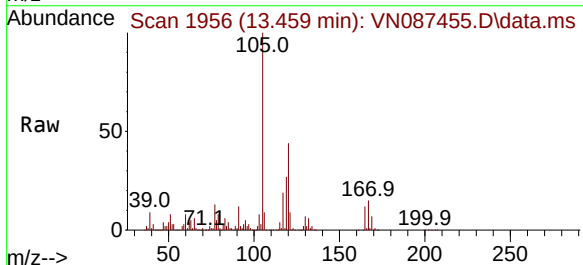
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

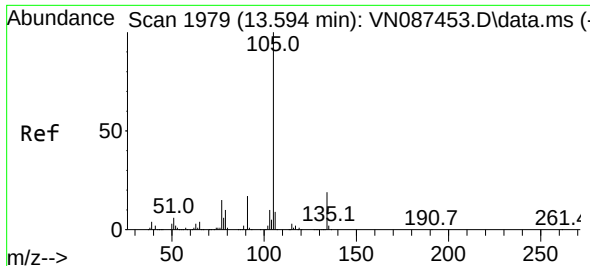
Tgt Ion:119 Resp: 1672735  
Ion Ratio Lower Upper  
119 100  
91 72.5 0.0 141.6  
134 24.2 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 102.898 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 1998320  
Ion Ratio Lower Upper  
105 100  
120 43.8 0.0 87.2

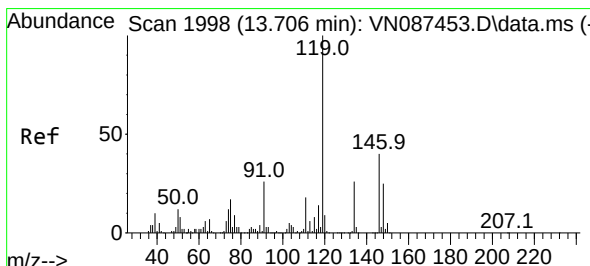
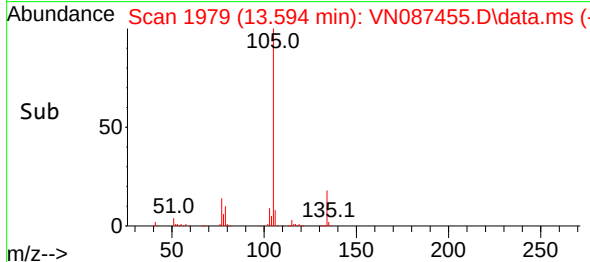
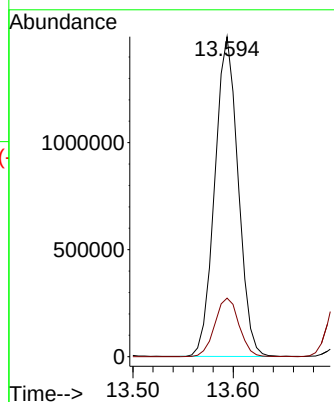
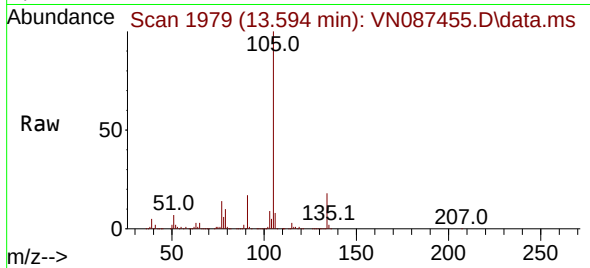




#81  
 sec-Butylbenzene  
 Concen: 101.283 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

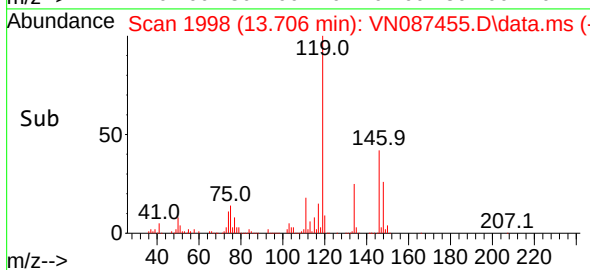
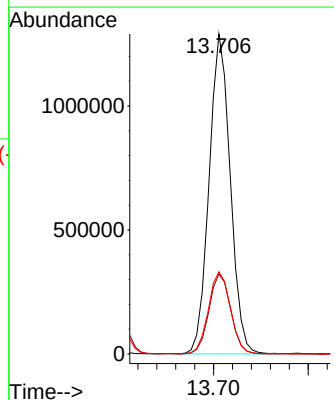
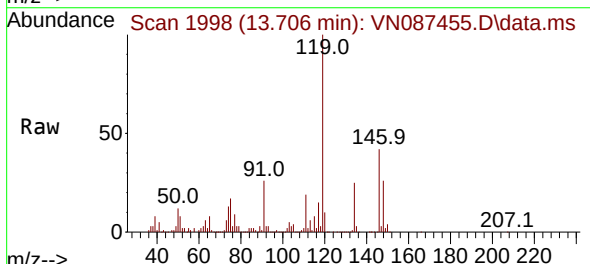
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

Tgt Ion:105 Resp: 2416128  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 0.0 37.6

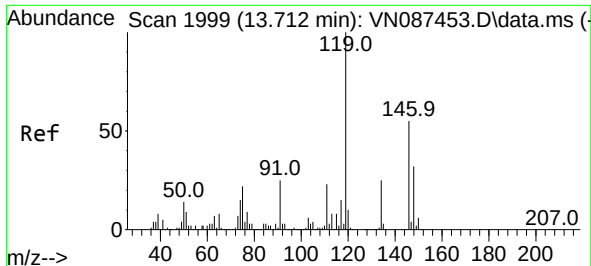


#82  
 p-Isopropyltoluene  
 Concen: 101.064 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

Tgt Ion:119 Resp: 2001765  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 0.0 51.4  
 91 26.5 0.0 52.0



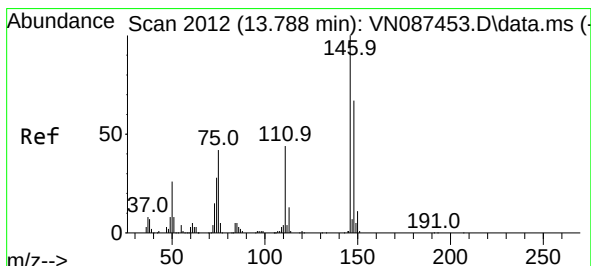
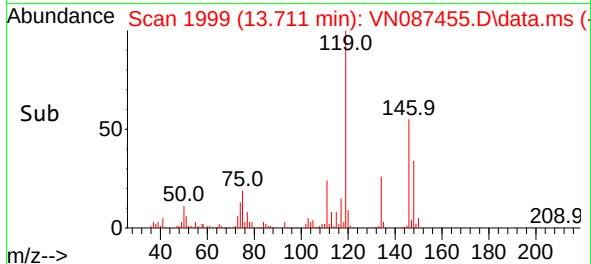
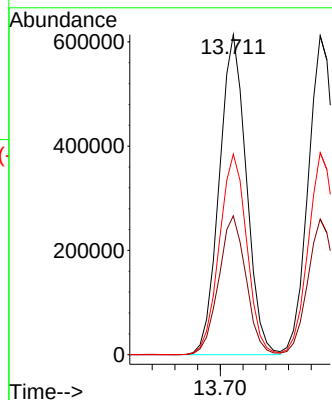
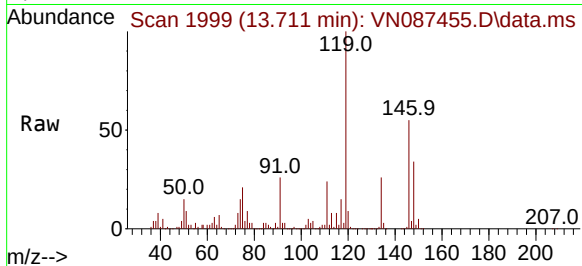




#83  
 1,3-Dichlorobenzene  
 Concen: 101.387 ug/l  
 RT: 13.711 min Scan# 1999  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

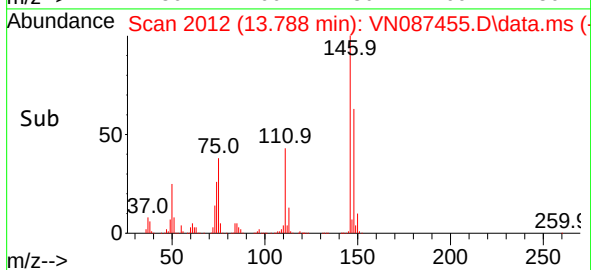
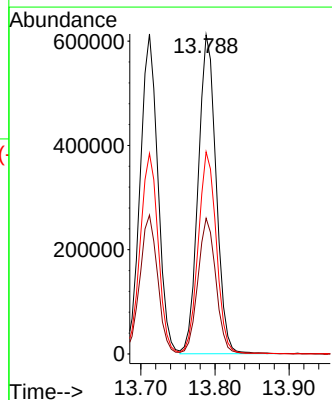
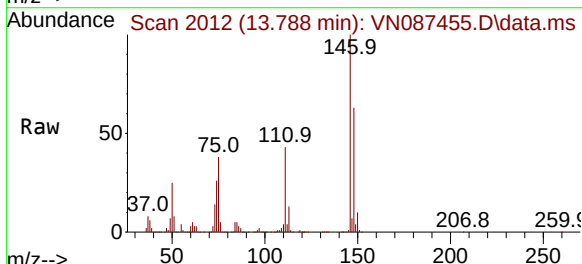
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

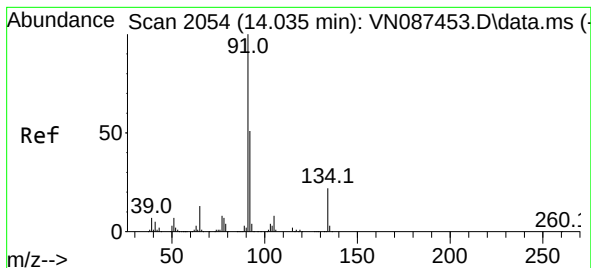
Tgt Ion:146 Resp: 1015919  
 Ion Ratio Lower Upper  
 146 100  
 111 43.8 21.9 65.5  
 148 63.7 31.3 93.9



#84  
 1,4-Dichlorobenzene  
 Concen: 101.255 ug/l  
 RT: 13.788 min Scan# 1212  
 Delta R.T. -0.000 min  
 Lab File: VN087455.D  
 Acq: 05 Aug 2025 14:40

Tgt Ion:146 Resp: 1028636  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 21.1 63.1  
 148 63.9 31.4 94.3





#85

n-Butylbenzene

Concen: 102.562 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

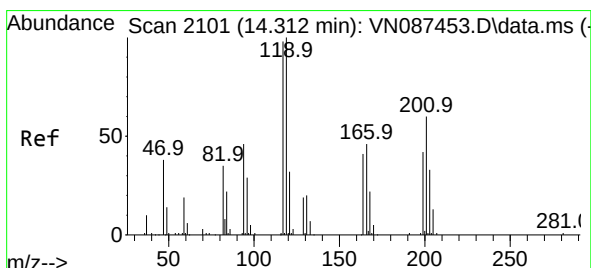
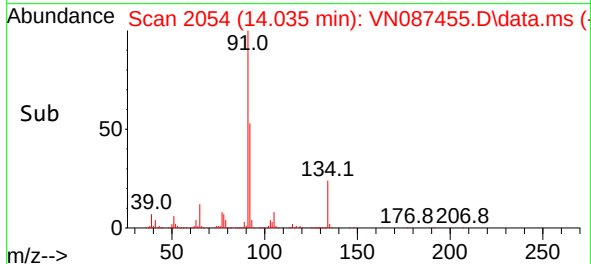
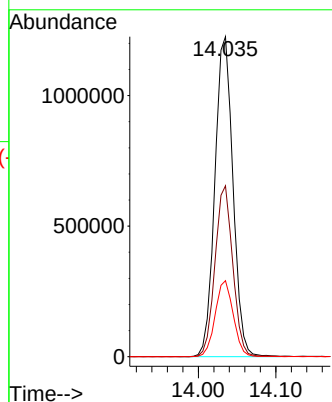
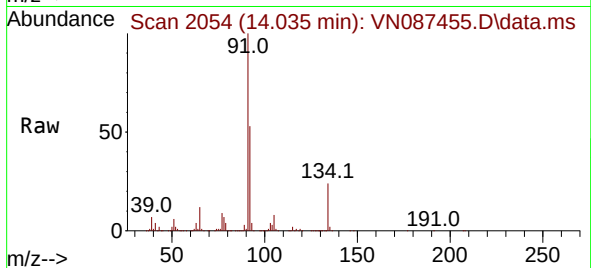
MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1987536

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 52.6  | 0.0   | 106.6 |
| 134 | 23.8  | 0.0   | 44.4  |



#86

Hexachloroethane

Concen: 103.386 ug/l

RT: 14.311 min Scan# 2101

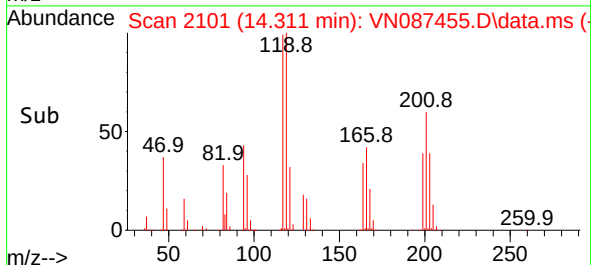
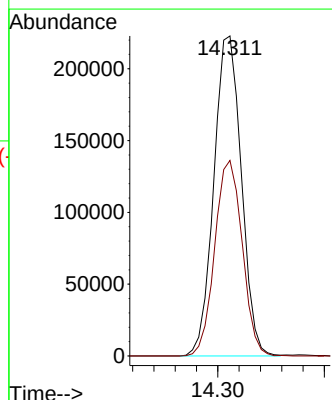
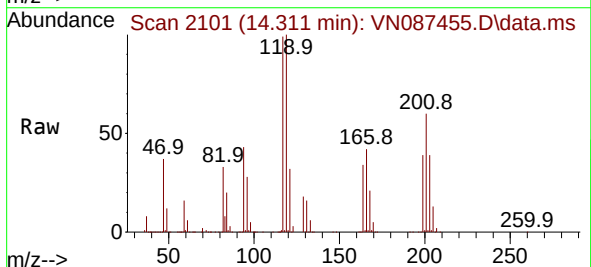
Delta R.T. -0.000 min

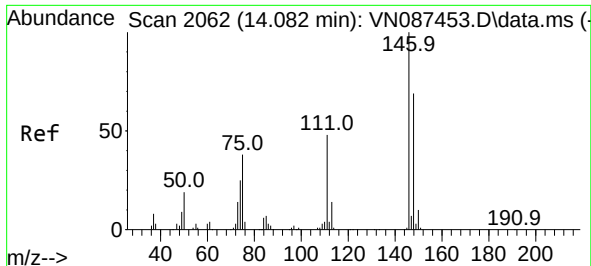
Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 117 Resp: 399888

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 60.9  | 29.1  | 87.4  |

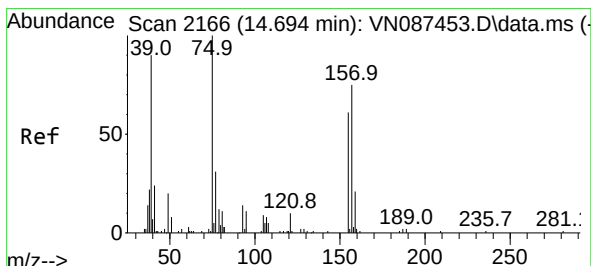
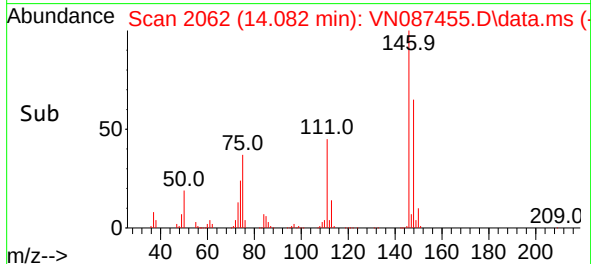
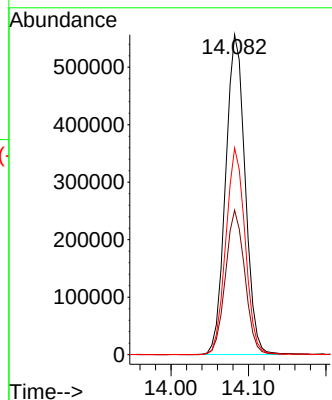
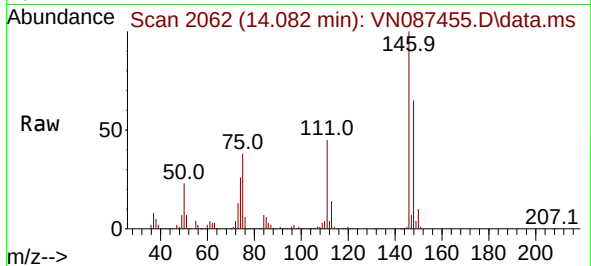




#87  
1,2-Dichlorobenzene  
Concen: 102.064 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

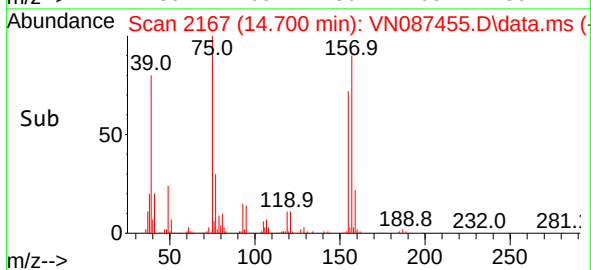
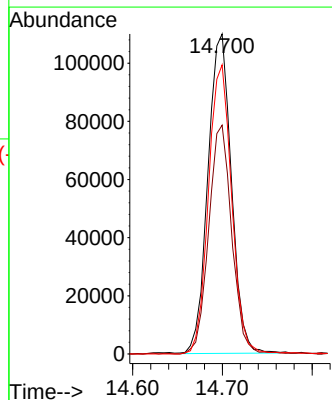
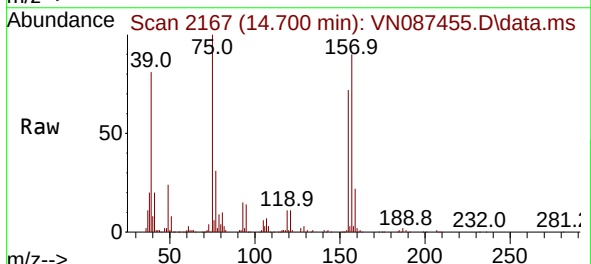
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

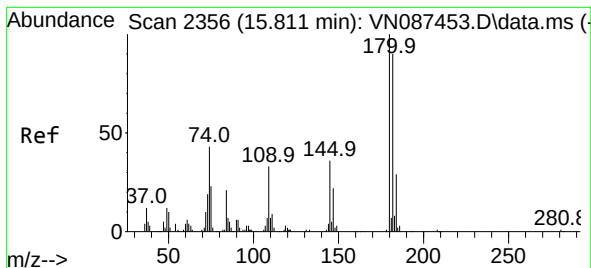
Tgt Ion:146 Resp: 976220  
Ion Ratio Lower Upper  
146 100  
111 44.9 22.9 68.7  
148 63.9 31.6 94.7



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 101.112 ug/l  
RT: 14.700 min Scan# 2167  
Delta R.T. 0.006 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 199216  
Ion Ratio Lower Upper  
75 100  
155 70.5 55.7 83.5  
157 89.9 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 101.981 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

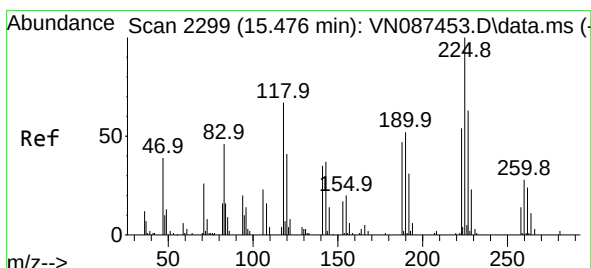
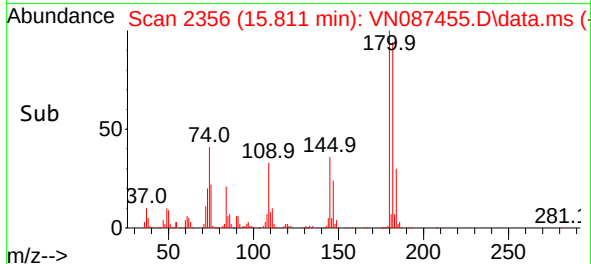
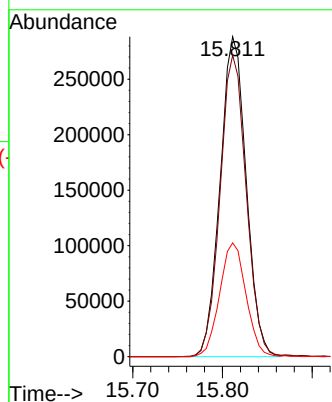
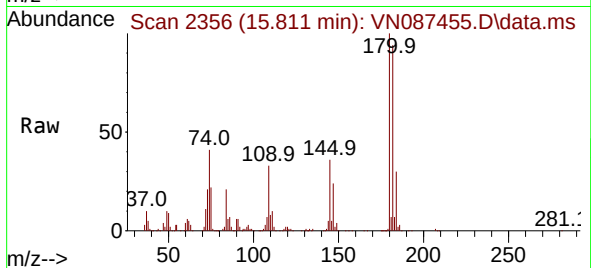
Tgt Ion:180 Resp: 582952

Ion Ratio Lower Upper

180 100

182 94.3 75.0 112.4

145 35.9 28.6 43.0



#90

Hexachlorobutadiene

Concen: 95.460 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

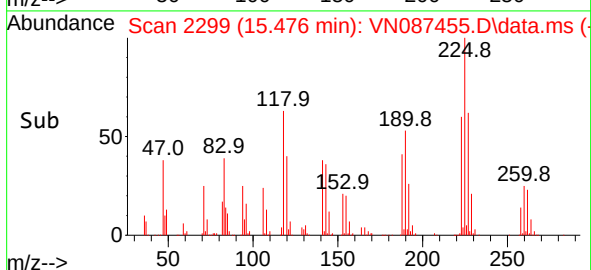
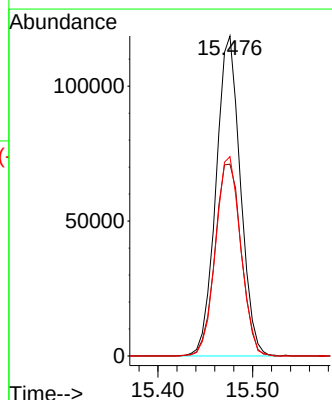
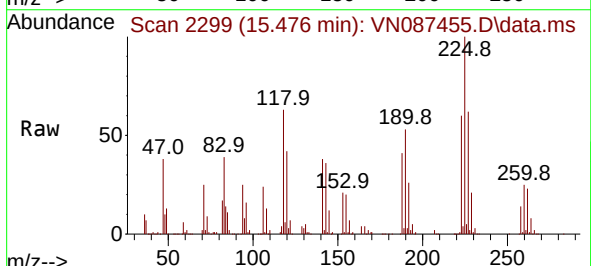
Tgt Ion:225 Resp: 212184

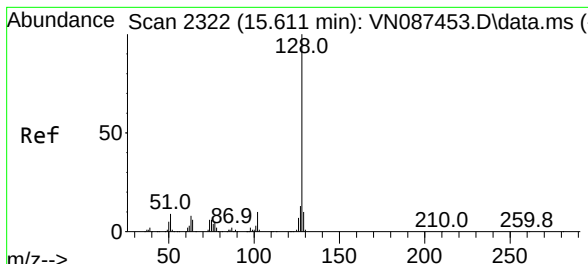
Ion Ratio Lower Upper

225 100

223 64.5 0.0 116.0

227 64.1 0.0 127.0

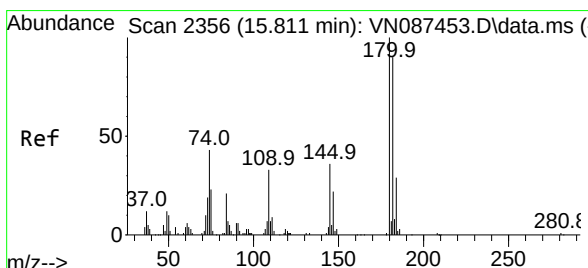
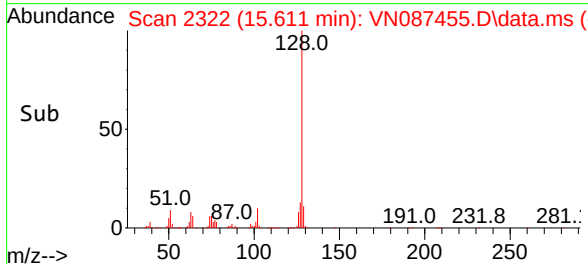
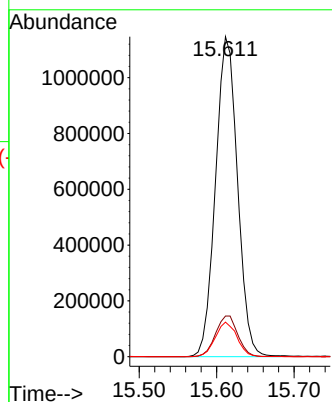
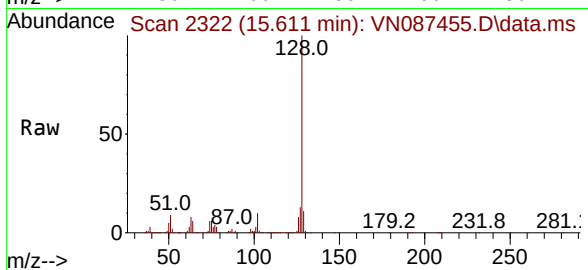




#91  
Naphthalene  
Concen: 103.669 ug/l  
RT: 15.611 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

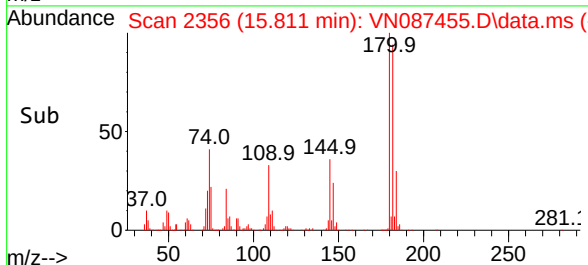
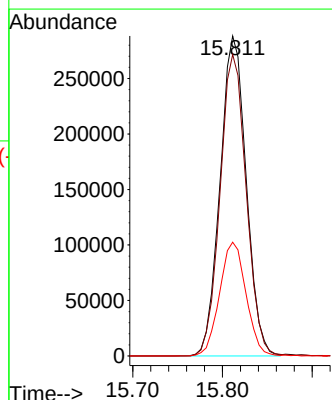
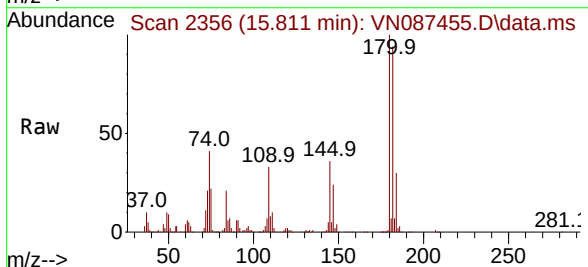
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC100

Tgt Ion:128 Resp: 2259551  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.4  
129 10.7 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 101.981 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087455.D  
Acq: 05 Aug 2025 14:40

Tgt Ion:180 Resp: 582952  
Ion Ratio Lower Upper  
180 100  
182 94.3 0.0 187.4  
145 35.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087456.D  
 Acq On : 05 Aug 2025 15:01  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.800  | 128   | 69078    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 387583   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 364557   | 30.000   | ug/l   | 0.00     |
|                              |        |       |          |          |        |          |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565  | 65    | 189674   | 29.770   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 99.233%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 185190   | 29.518   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 98.400%  |
| 63) Toluene-d8               | 10.547 | 98    | 486934   | 29.029   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 96.767%  |
|                              |        |       |          |          |        |          |
| Target Compounds             |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 723378   | 160.391  | ug/l   | 98       |
| 3) Chloromethane             | 2.383  | 50    | 725628   | 156.816  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.542  | 62    | 763252   | 155.517  | ug/l   | 98       |
| 5) Bromomethane              | 2.948  | 94    | 445899   | 167.854  | ug/l   | 88       |
| 6) Chloroethane              | 3.124  | 64    | 492727   | 155.693  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506  | 101   | 1085005  | 153.614  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.959  | 74    | 454480   | 154.449  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359  | 101   | 551904   | 153.229  | ug/l   | 90       |
| 10) 1,1-Dichloroethene       | 4.330  | 96    | 595776   | 157.473  | ug/l   | 97       |
| 11) Methyl Iodide            | 4.577  | 142   | 615618   | 207.681  | ug/l   | 96       |
| 12) Methyl Acetate           | 5.012  | 43    | 1117123  | 160.008  | ug/l   | 96       |
| 13) Acrolein                 | 4.171  | 56    | 885350   | 830.485  | ug/l   | 100      |
| 14) Acrylonitrile            | 5.706  | 53    | 2386034  | 782.650  | ug/l   | 99       |
| 15) Acetone                  | 4.424  | 58    | 624281   | 716.676  | ug/l   | 93       |
| 16) Carbon Disulfide         | 4.700  | 76    | 1818928  | 154.990  | ug/l   | 99       |
| 17) Allyl chloride           | 5.006  | 41    | 1219550  | 158.149  | ug/l   | 96       |
| 18) Methylene Chloride       | 5.259  | 84    | 741791   | 152.333  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 697274   | 154.982  | ug/l   | 97       |
| 20) Diisopropyl ether        | 6.659  | 45    | 2747446  | 156.466  | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 1407817  | 155.035  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 860976   | 155.531  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530  | 59    | 986070   | 761.173  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 2719481  | 157.748  | ug/l   | 98       |
| 25) Chloroform               | 7.947  | 83    | 1478128  | 155.945  | ug/l   | 97       |
| 26) Cyclohexane              | 8.235  | 56    | 1125305  | 154.779  | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 964808   | 152.623  | ug/l   | 98       |
| 30) 2-Butanone               | 7.471  | 43    | 3513639  | 754.051  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 1224801  | 150.224  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97    | 1249167  | 154.937  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.347  | 117   | 1036608  | 154.768  | ug/l   | 94       |
| 34) Benzene                  | 8.588  | 78    | 3070072  | 153.850  | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.765  | 41    | 743083   | 147.778  | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 1229451  | 152.417  | ug/l   | 99       |
| 37) Trichloroethene          | 9.335  | 130   | 671378   | 152.738  | ug/l   | 95       |
| 38) Methylcyclohexane        | 9.582  | 83    | 1115098  | 152.053  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 775438   | 151.562  | ug/l   | 98       |
| 40) Dibromomethane           | 9.688  | 93    | 586203   | 152.708  | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871  | 83    | 1228566  | 154.020  | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.588  | 43    | 11742175 | 765.203  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087456.D  
 Acq On : 05 Aug 2025 15:01  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

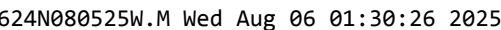
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 01:24:35 2025  
 Response via : Initial Calibration

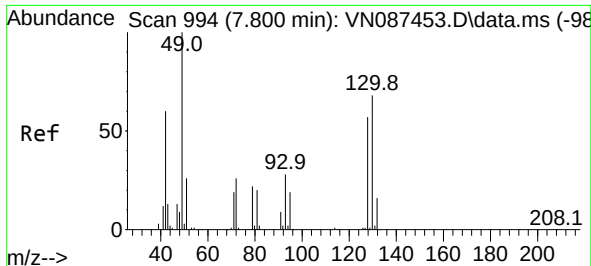
| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 1387131  | 156.385  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 2332673  | 152.869  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 293747   | 3019.679 | ug/l # | 93       |
| 46) Methyl methacrylate       | 9.665  | 41   | 1134360  | 157.486  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.482 | 43   | 1594700  | 207.839  | ug/l # | 59       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 1360863  | 156.815  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 1364130  | 156.195  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 751367   | 154.919  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 1388488  | 162.554  | ug/l   | 99       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 1349103  | 154.396  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.341 | 129  | 890655   | 159.011  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 801234   | 155.619  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 3422234  | 761.062  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 604236   | 163.094  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 6842960  | 729.674  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.176 | 43   | 4970555  | 780.064  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 527237   | 148.447  | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 3345117  | 148.669  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.870 | 112  | 2069135  | 149.658  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 721459   | 148.418  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 3762645  | 150.033  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.053 | 106  | 2745929  | 298.294  | ug/l   | 98       |
| 68) o-Xylene                  | 12.376 | 106  | 1358102  | 149.962  | ug/l   | 99       |
| 69) Styrene                   | 12.388 | 104  | 2382097  | 154.045  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 3492470  | 151.792  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 1145045  | 145.247  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 1617046  | 199.549  | ug/l   | 54       |
| 73) Bromobenzene              | 12.959 | 156  | 798843   | 149.771  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 4261831  | 148.316  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 2596357  | 146.890  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 2914301  | 147.934  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 466370   | 167.752  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 2683008  | 149.787  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 2427930  | 146.177  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 2936296  | 149.164  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 3544404  | 146.583  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 2934141  | 146.146  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 1508514  | 148.523  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1521926  | 147.799  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 2920119  | 148.660  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 595863   | 151.982  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 1446749  | 149.224  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 299287   | 149.861  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 317783   | 141.046  | ug/l   | 96       |
| 91) Naphthalene               | 15.611 | 128  | 3431814  | 155.335  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 893366   | 154.184  | ug/l   | 99       |

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

Quant Time: Aug 06 01:30:14 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 01:24:35 2025  
Response via : Initial Calibration



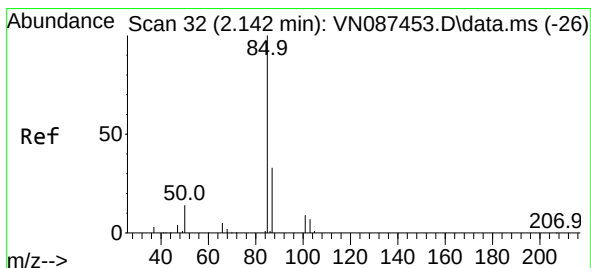
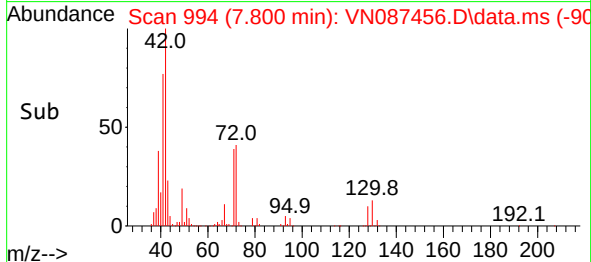
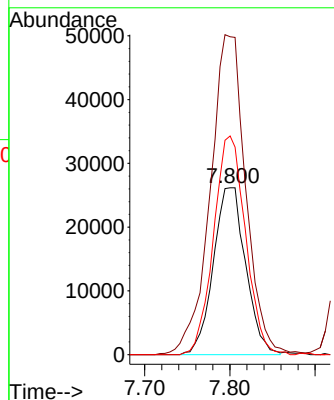
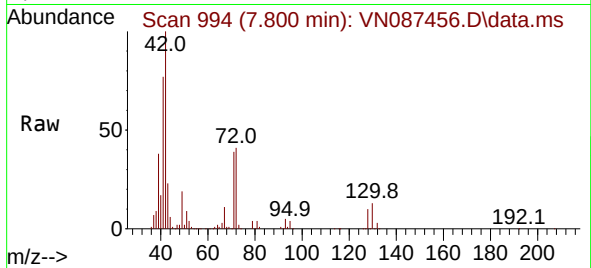




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

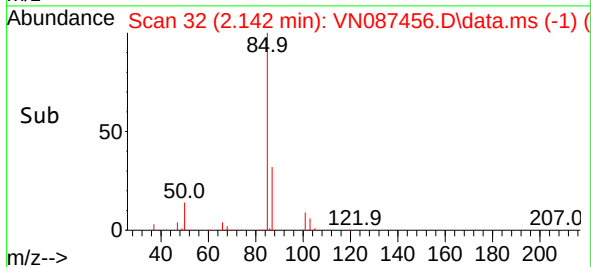
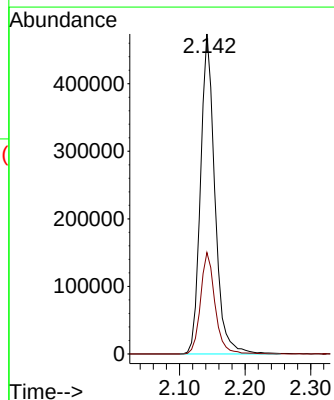
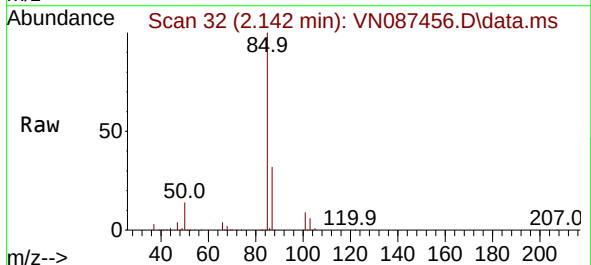
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MSVOA\_N  
ClientSampleId :  
VSTDIC150

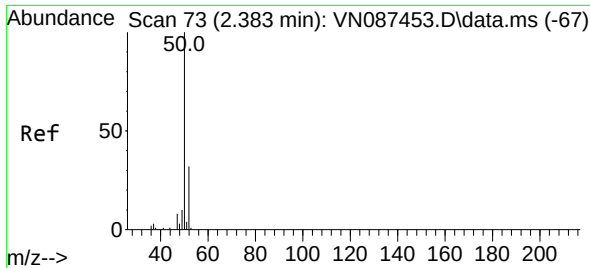
Tgt Ion:128 Resp: 69078  
Ion Ratio Lower Upper  
128 100  
49 210.7 0.0 494.8  
130 129.4 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 160.391 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 85 Resp: 723378  
Ion Ratio Lower Upper  
85 100  
87 31.7 16.4 49.2

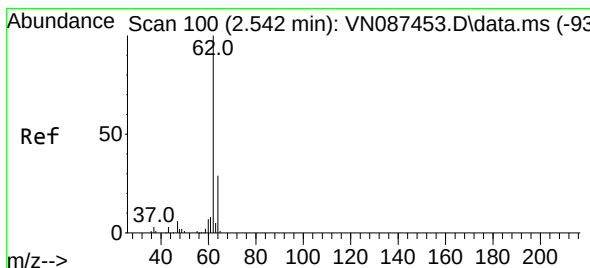
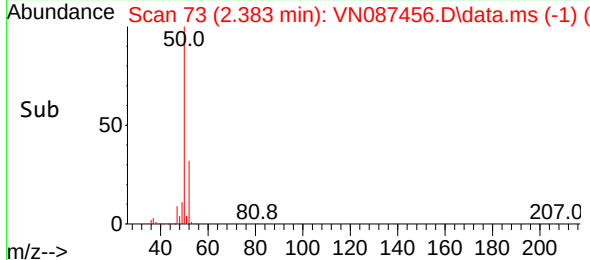
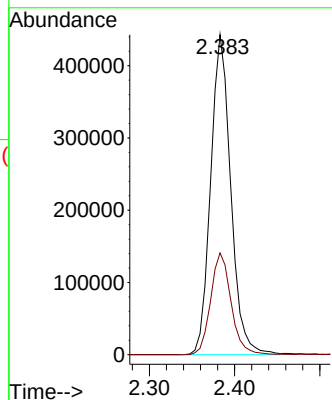
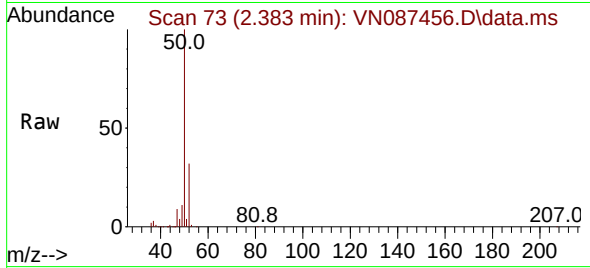




#3  
Chloromethane  
Concen: 156.816 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

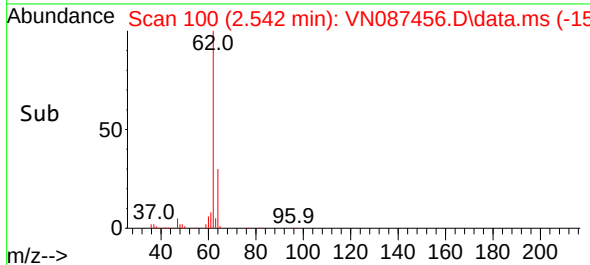
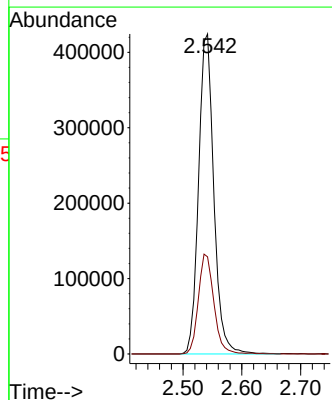
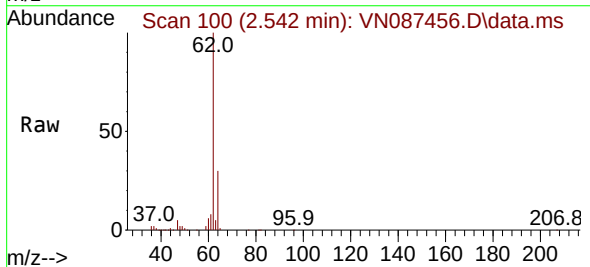
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ClientSampleId :  
VSTDICC150

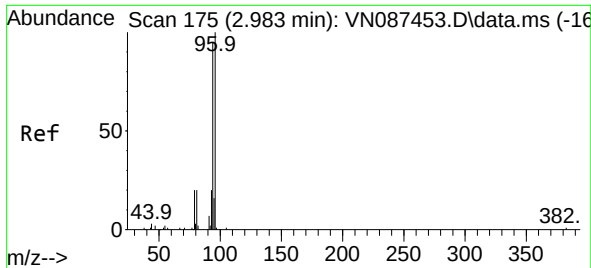
Tgt Ion: 50 Resp: 725628  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.8 38.6



#4  
Vinyl Chloride  
Concen: 155.517 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 62 Resp: 763252  
Ion Ratio Lower Upper  
62 100  
64 30.3 23.4 35.2

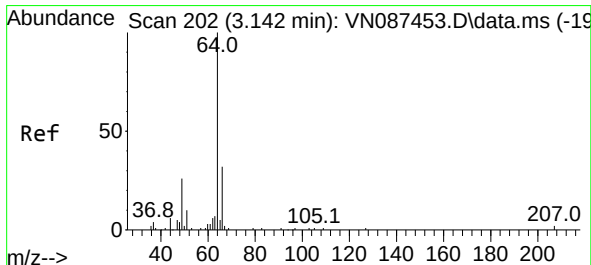
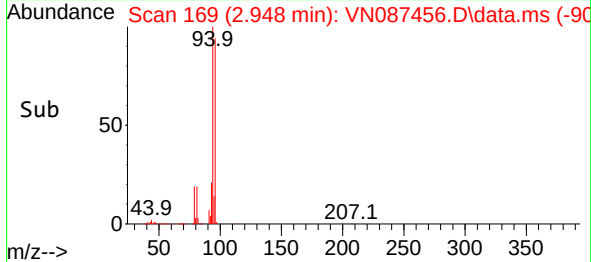
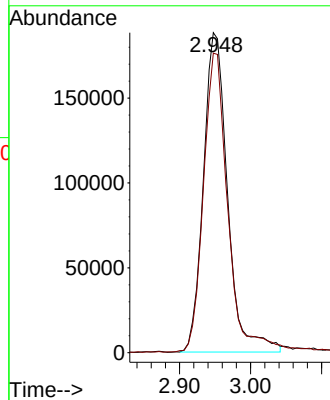
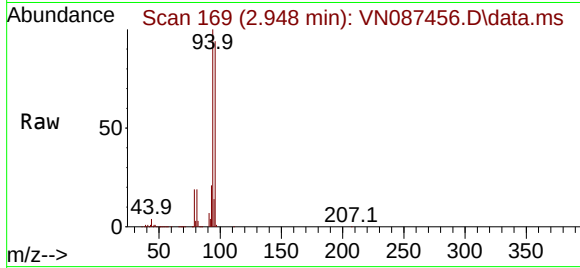




#5  
Bromomethane  
Concen: 167.854 ug/l  
RT: 2.948 min Scan# 11  
Delta R.T. -0.035 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

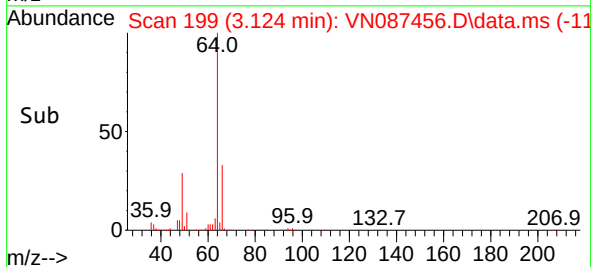
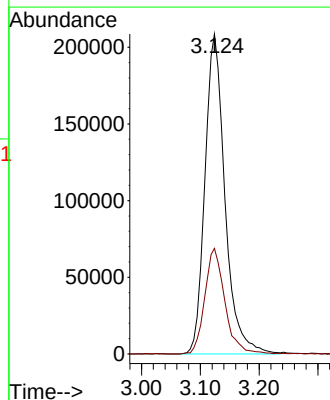
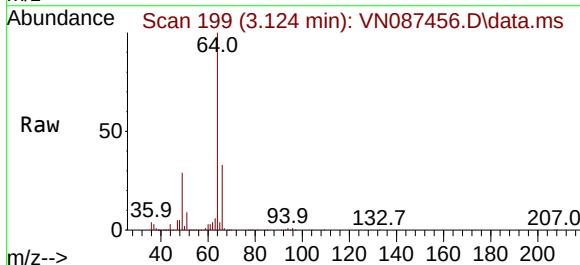
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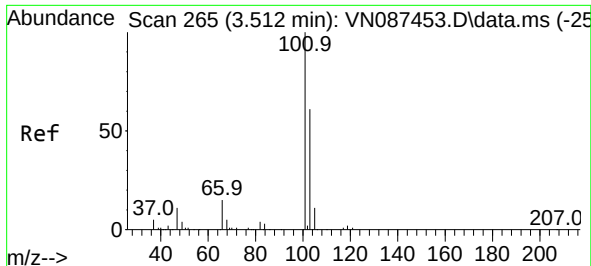
Tgt Ion: 94 Resp: 445899  
Ion Ratio Lower Upper  
94 100  
96 93.1 84.2 126.4



#6  
Chloroethane  
Concen: 155.693 ug/l  
RT: 3.124 min Scan# 199  
Delta R.T. -0.018 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 64 Resp: 492727  
Ion Ratio Lower Upper  
64 100  
66 33.0 25.4 38.0

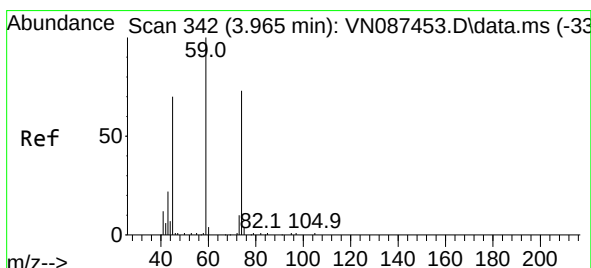
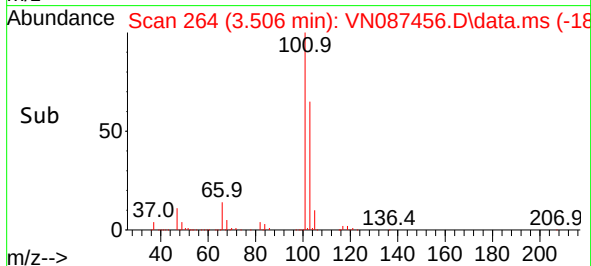
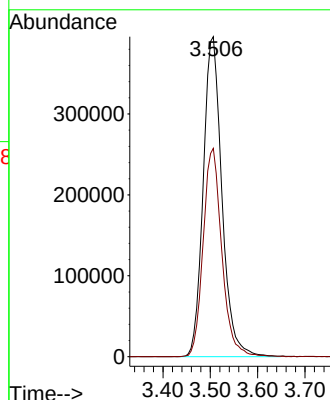
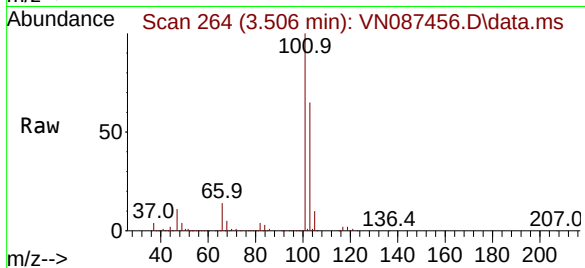




#7  
Trichlorofluoromethane  
Concen: 153.614 ug/l  
RT: 3.506 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

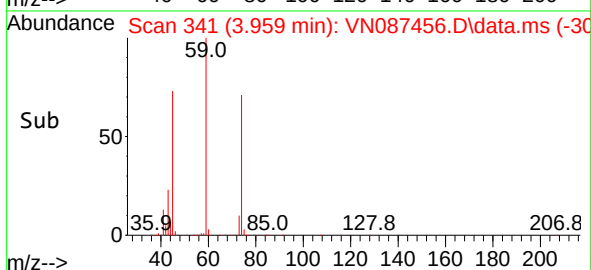
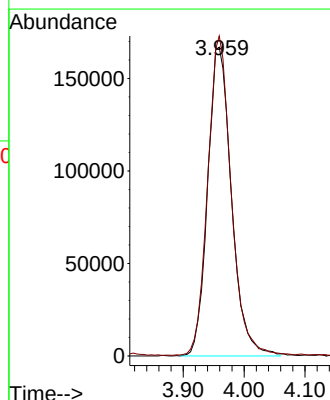
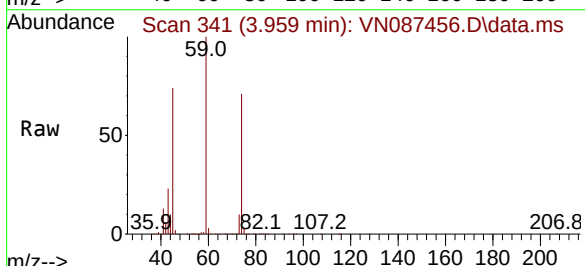
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

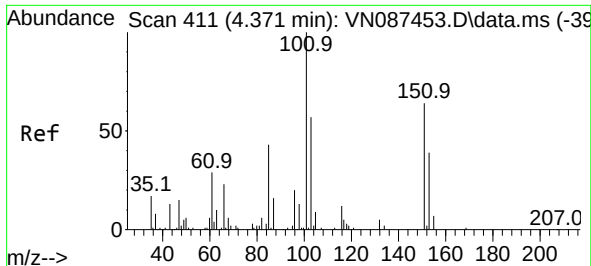
Tgt Ion:101 Resp: 1085005  
Ion Ratio Lower Upper  
101 100  
103 65.1 49.2 73.8



#8  
Diethyl Ether  
Concen: 154.449 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 74 Resp: 454480  
Ion Ratio Lower Upper  
74 100  
45 101.8 20.1 180.9

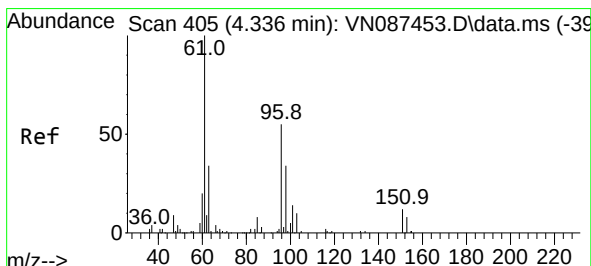
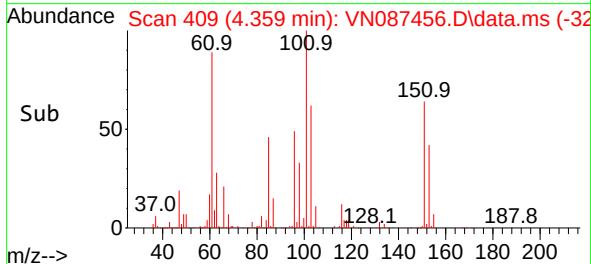
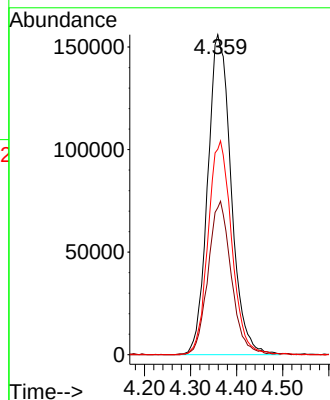
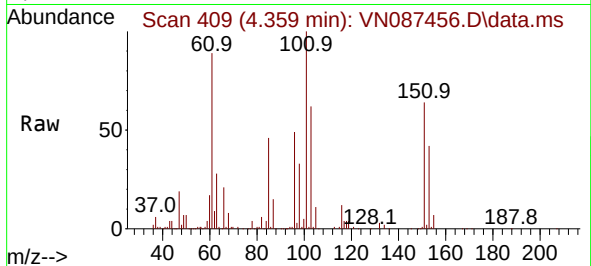




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 153.229 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. -0.012 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

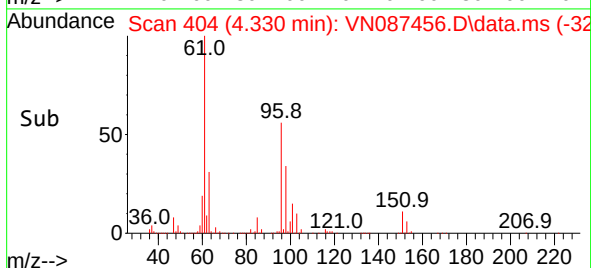
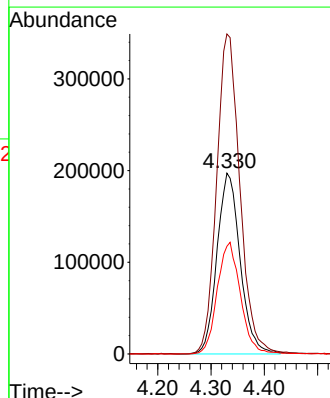
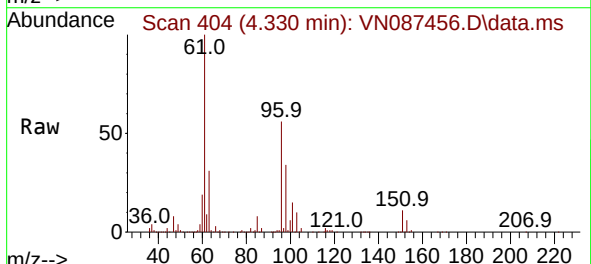
Instrument :  
MSVOA\_N  
ClientSampleId :  
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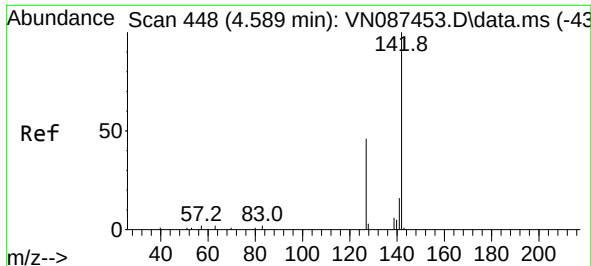
Tgt Ion:101 Resp: 551904  
Ion Ratio Lower Upper  
101 100  
85 46.6 0.0 57.0  
151 67.1 0.0 134.2



#10  
1,1-Dichloroethene  
Concen: 157.473 ug/l  
RT: 4.330 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 96 Resp: 595776  
Ion Ratio Lower Upper  
96 100  
61 177.0 144.2 216.4  
98 59.5 49.7 74.5

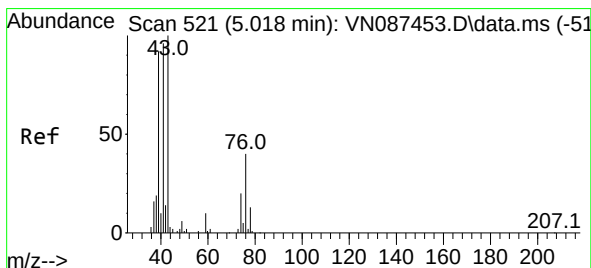
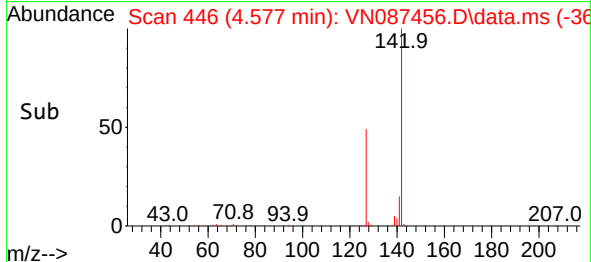
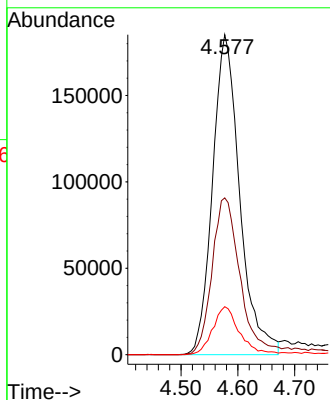
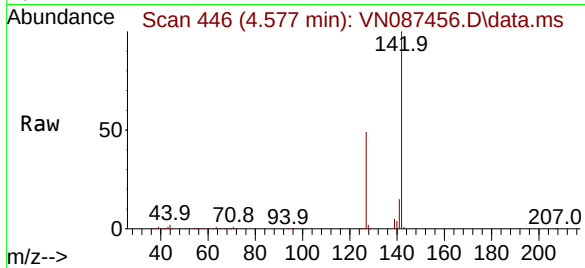




#11  
Methyl Iodide  
Concen: 207.681 ug/l  
RT: 4.577 min Scan# 44  
Delta R.T. -0.012 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

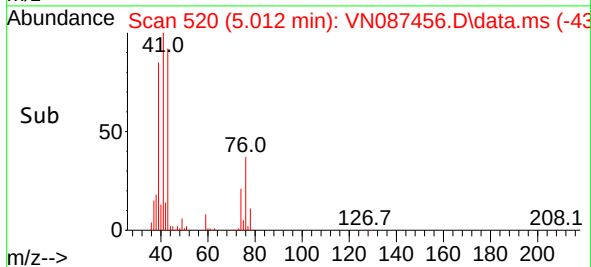
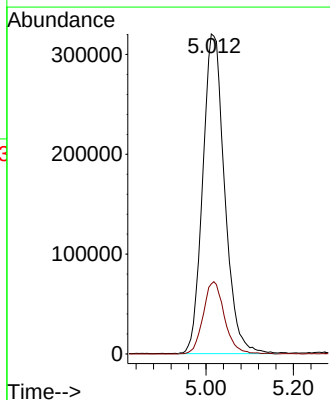
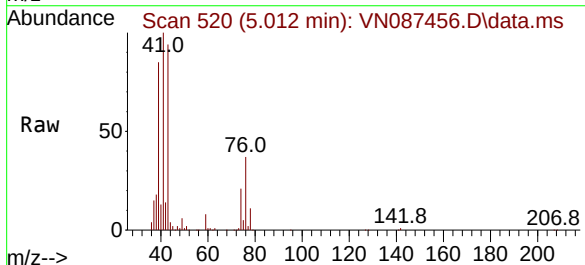
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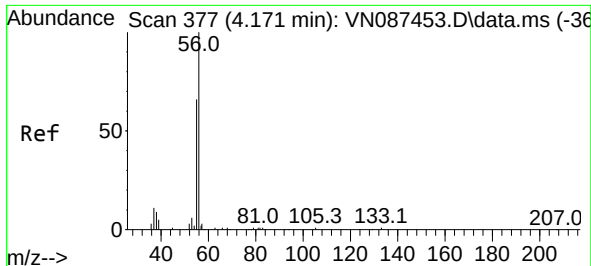
Tgt Ion:142 Resp: 615618  
Ion Ratio Lower Upper  
142 100  
127 48.8 22.9 68.7  
141 15.0 7.7 23.1



#12  
Methyl Acetate  
Concen: 160.008 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 1117123  
Ion Ratio Lower Upper  
43 100  
74 21.9 16.0 24.0

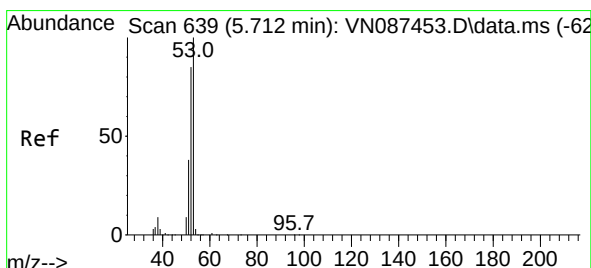
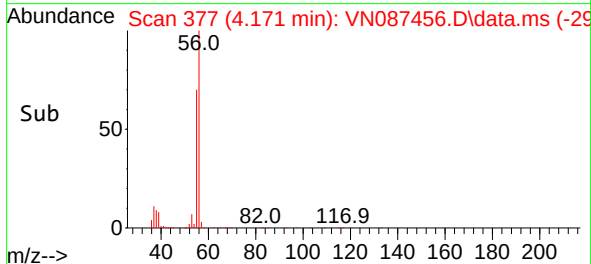
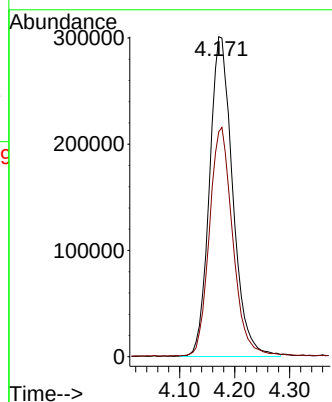
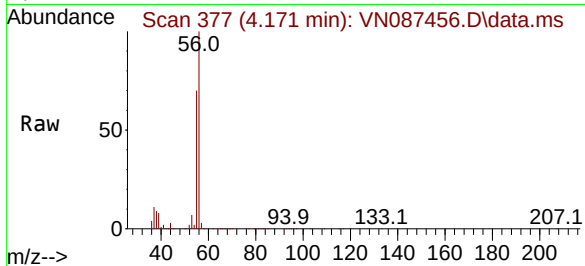




#13  
Acrolein  
Concen: 830.485 ug/l  
RT: 4.171 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

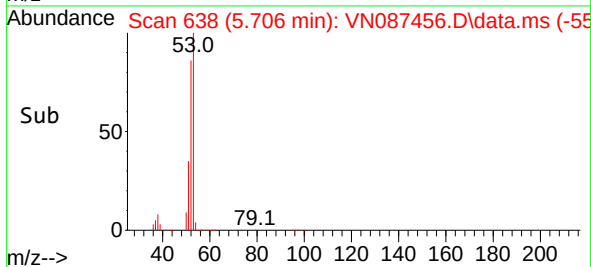
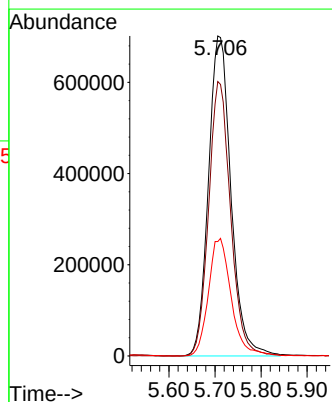
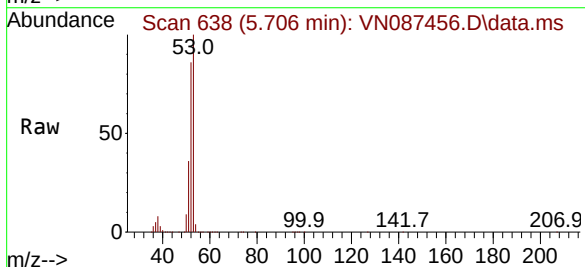
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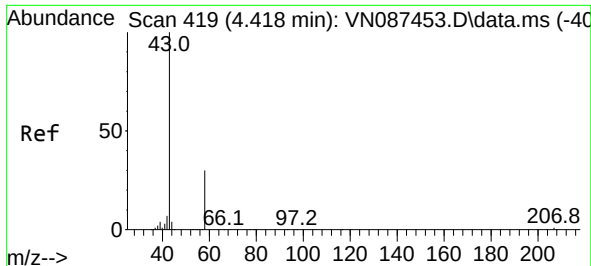
Tgt Ion: 56 Resp: 885350  
Ion Ratio Lower Upper  
56 100  
55 71.5 57.4 86.0



#14  
Acrylonitrile  
Concen: 782.650 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 53 Resp: 2386034  
Ion Ratio Lower Upper  
53 100  
52 83.1 42.4 127.2  
51 37.2 18.5 55.5

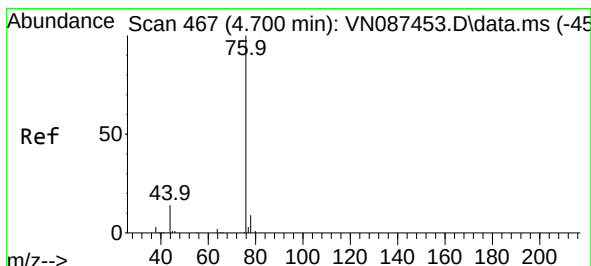
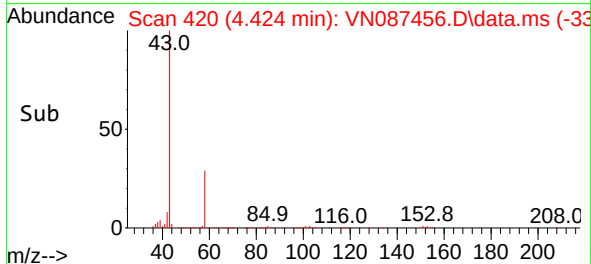
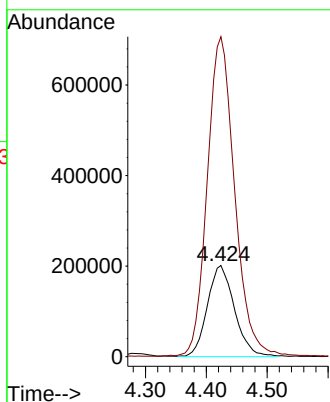
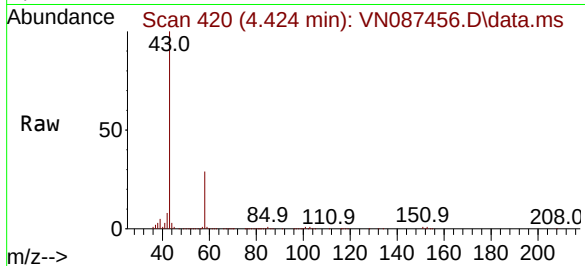




#15  
Acetone  
Concen: 716.676 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

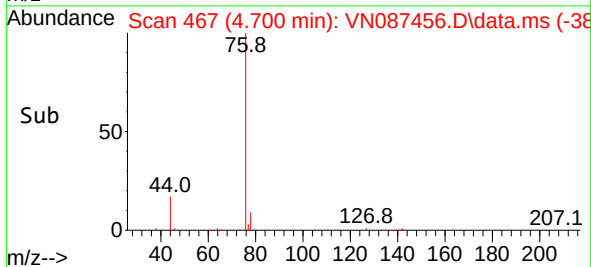
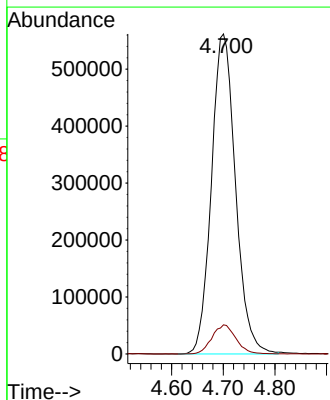
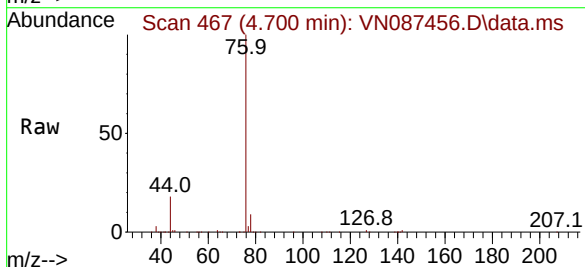
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

Tgt Ion: 58 Resp: 624281  
Ion Ratio Lower Upper  
58 100  
43 350.8 268.9 403.3

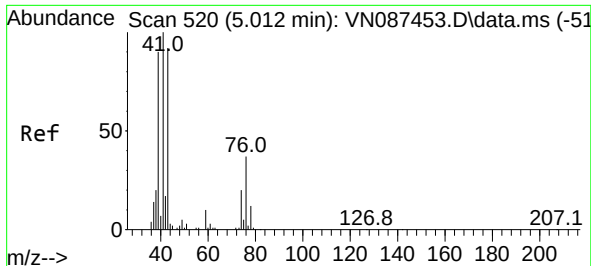


#16  
Carbon Disulfide  
Concen: 154.990 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 76 Resp: 1818928  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7



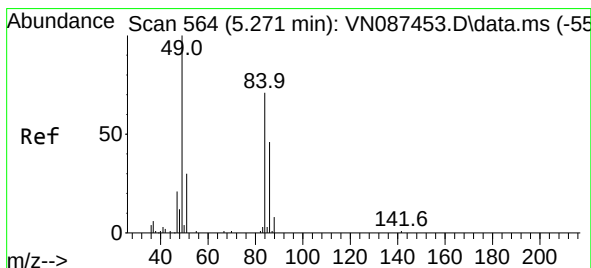
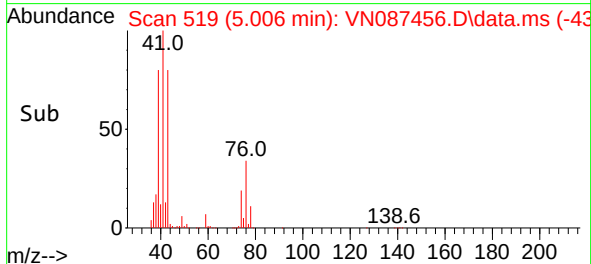
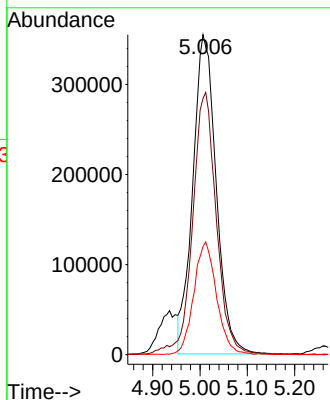
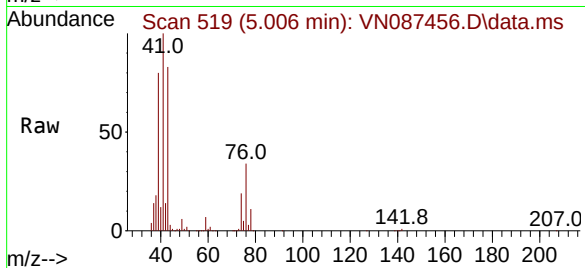




#17  
 Allyl chloride  
 Concen: 158.149 ug/l  
 RT: 5.006 min Scan# 51  
 Delta R.T. -0.006 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

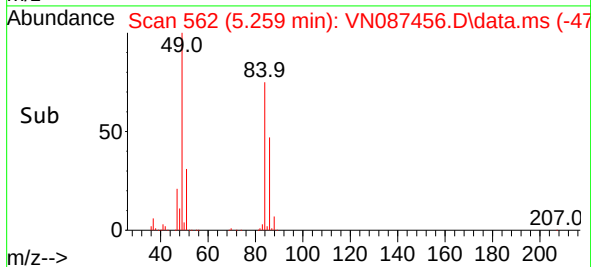
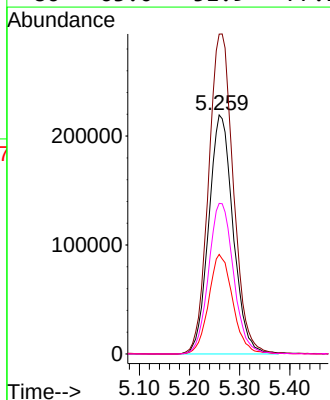
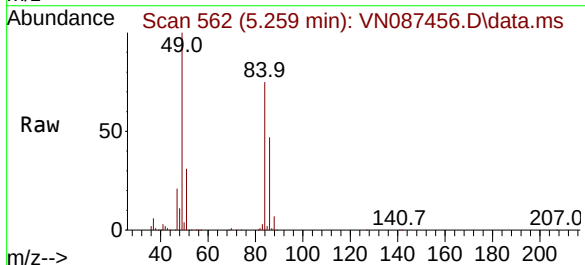
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

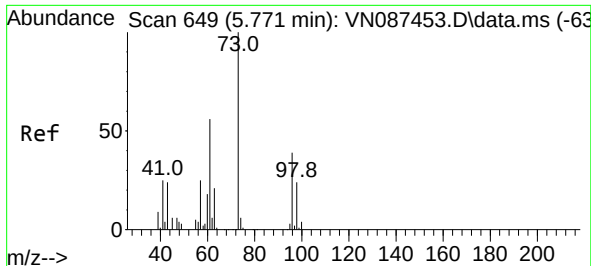
Tgt Ion: 41 Resp: 1219550  
 Ion Ratio Lower Upper  
 41 100  
 39 80.0 42.4 127.2  
 76 33.8 16.9 50.6



#18  
 Methylene Chloride  
 Concen: 152.333 ug/l  
 RT: 5.259 min Scan# 562  
 Delta R.T. -0.012 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Tgt Ion: 84 Resp: 741791  
 Ion Ratio Lower Upper  
 84 100  
 49 133.8 112.9 169.3  
 51 41.6 33.8 50.8  
 86 63.0 51.9 77.9

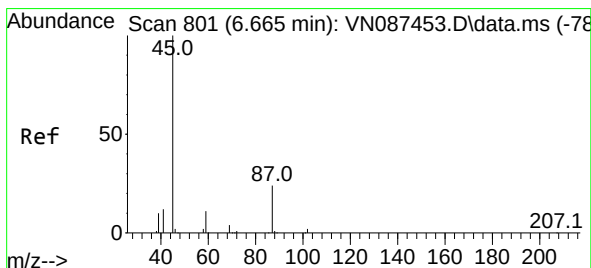
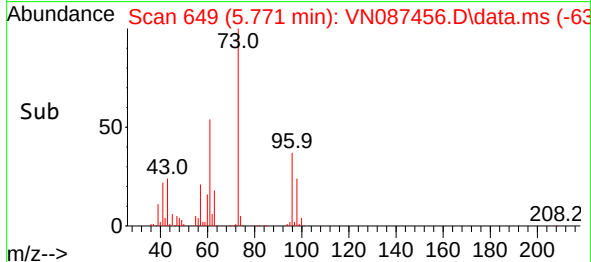
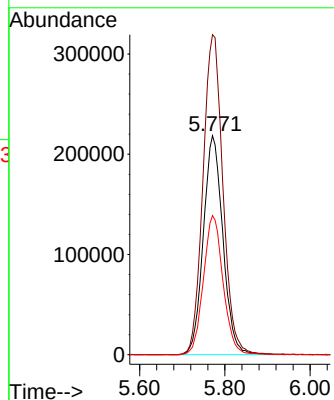
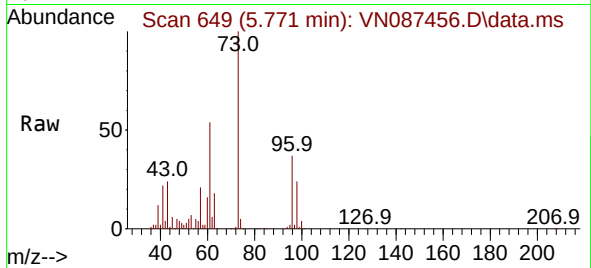




#19  
trans-1,2-Dichloroethene  
Concen: 154.982 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

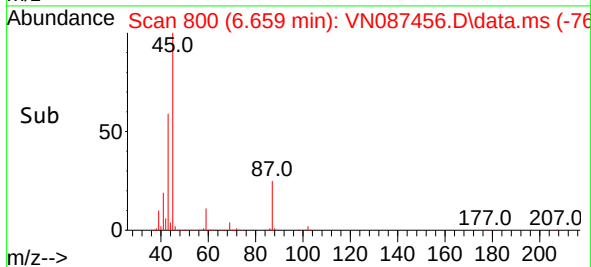
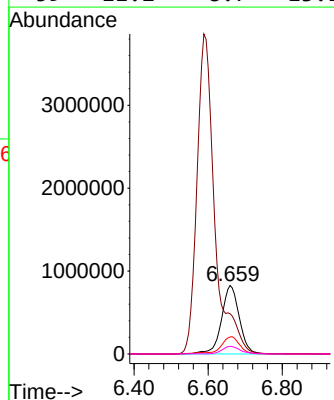
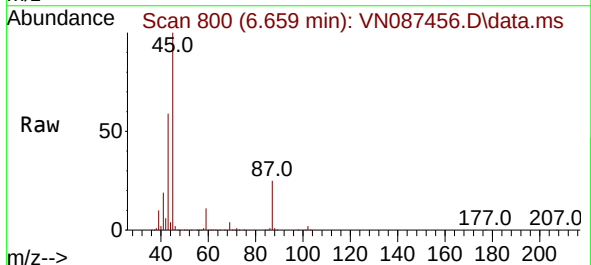
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

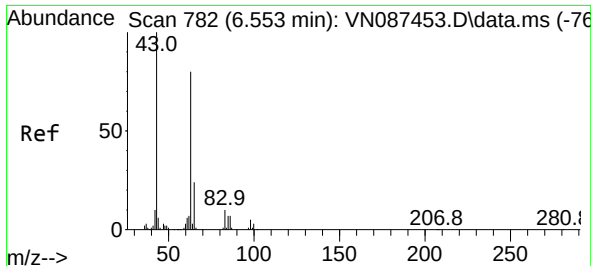
Tgt Ion: 96 Resp: 697274  
Ion Ratio Lower Upper  
96 100  
61 145.9 114.2 171.4  
98 63.5 48.7 73.1



#20  
Diisopropyl ether  
Concen: 156.466 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 45 Resp: 2747446  
Ion Ratio Lower Upper  
45 100  
43 58.3 44.7 67.1  
87 24.8 20.2 30.2  
59 11.2 8.7 13.1





#21

1,1-Dichloroethane

Concen: 155.035 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

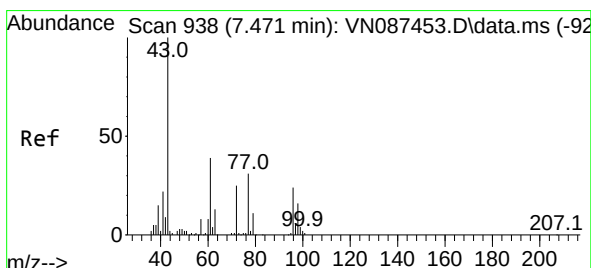
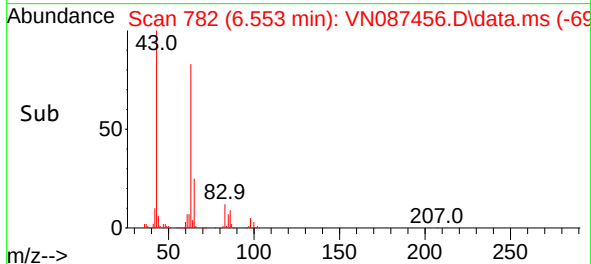
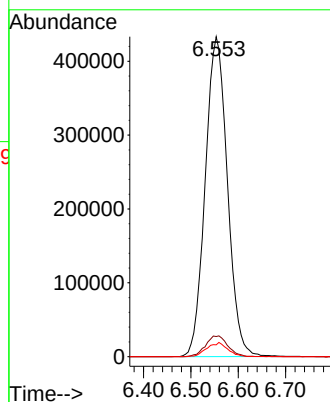
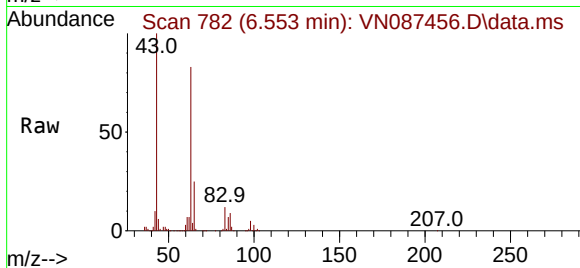
MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 1407817

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 6.3   | 3.0   | 9.0   |
| 100 | 3.7   | 1.9   | 5.7   |



#22

cis-1,2-Dichloroethene

Concen: 155.531 ug/l

RT: 7.471 min Scan# 938

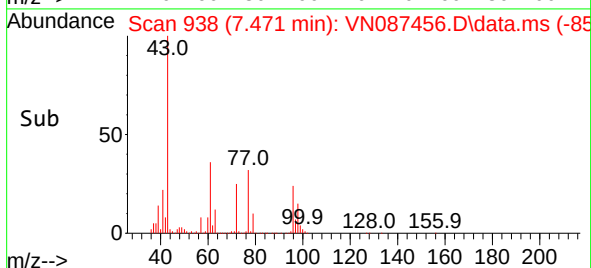
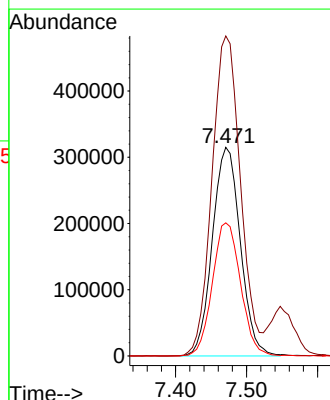
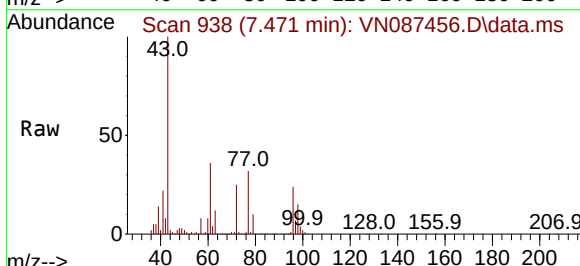
Delta R.T. -0.000 min

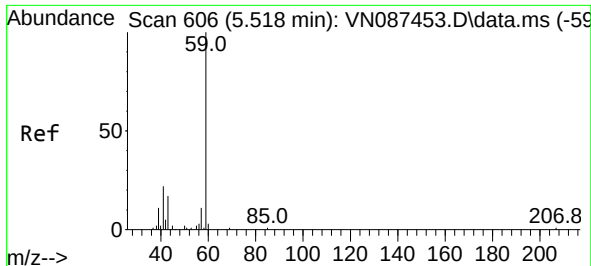
Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 96 Resp: 860976

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 157.1 | 126.6 | 190.0 |
| 98  | 64.2  | 50.9  | 76.3  |

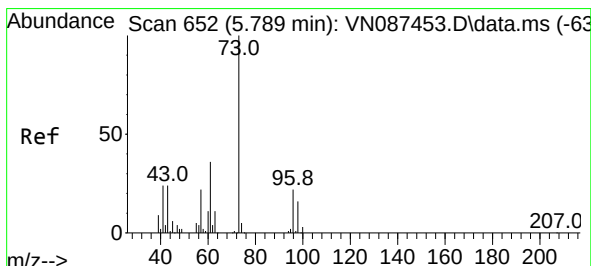
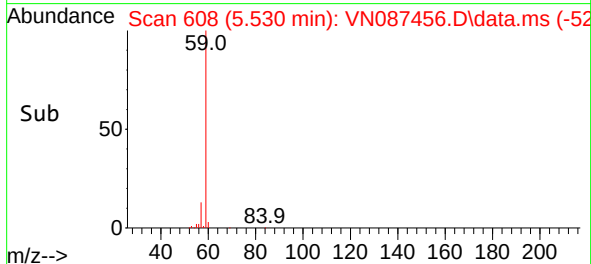
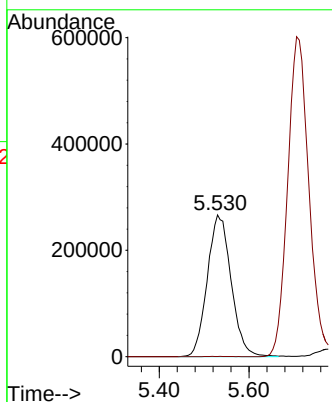
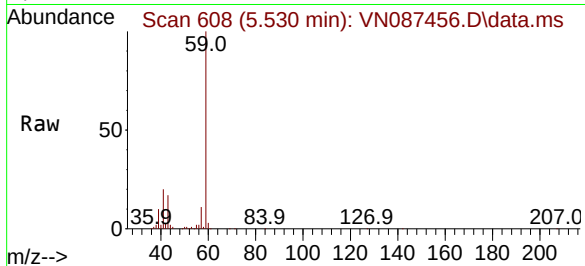




#23  
tert-Butyl Alcohol  
Concen: 761.173 ug/l  
RT: 5.530 min Scan# 606  
Delta R.T. 0.012 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

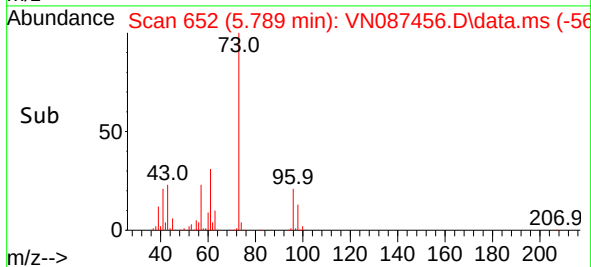
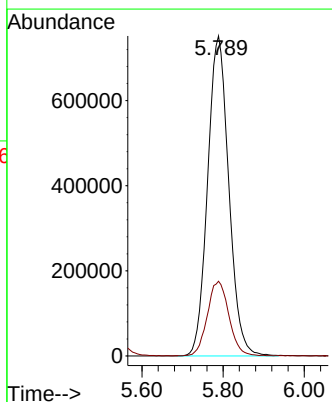
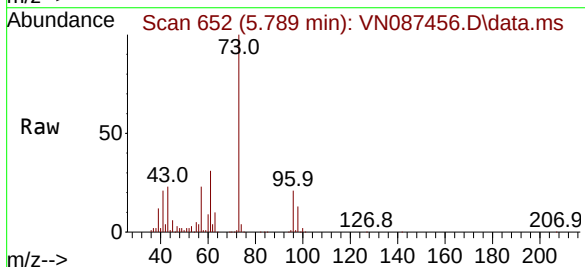
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

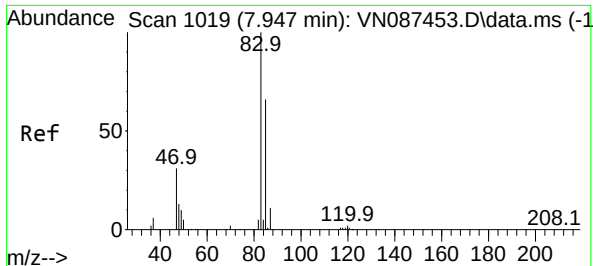
Tgt Ion: 59 Resp: 986070  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0#



#24  
Methyl tert-Butyl Ether  
Concen: 157.748 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 73 Resp: 2719481  
Ion Ratio Lower Upper  
73 100  
43 23.7 19.9 29.9

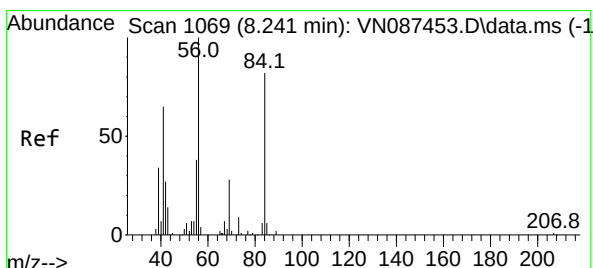
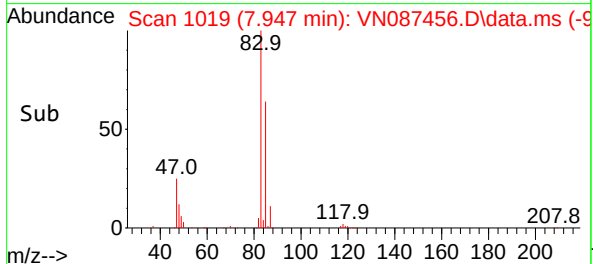
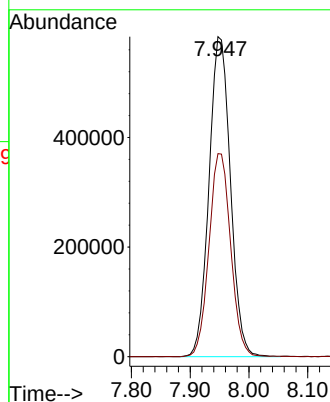
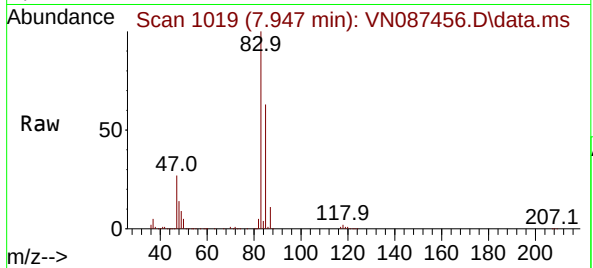




#25  
Chloroform  
Concen: 155.945 ug/l  
RT: 7.947 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

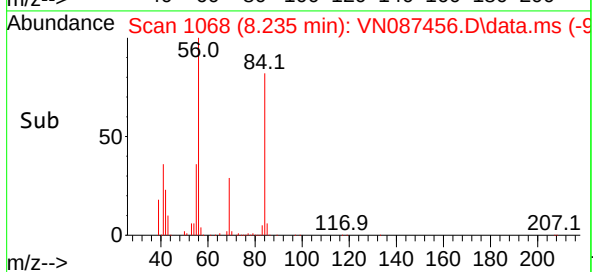
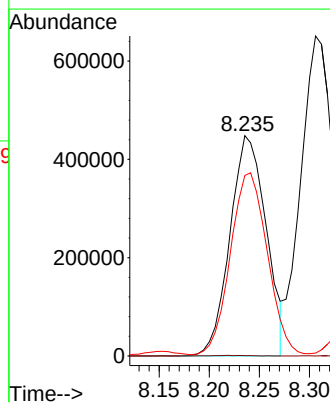
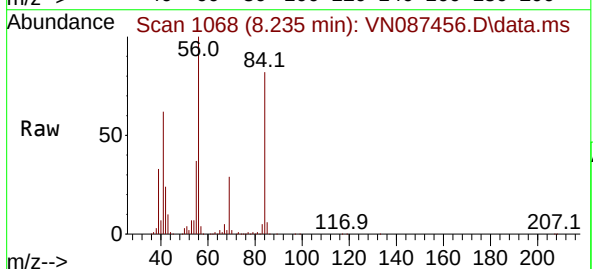
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

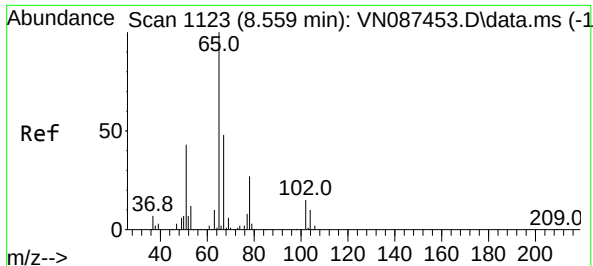
Tgt Ion: 83 Resp: 1478128  
Ion Ratio Lower Upper  
83 100  
85 63.4 52.6 78.8



#26  
Cyclohexane  
Concen: 154.779 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 56 Resp: 1125305  
Ion Ratio Lower Upper  
56 100  
89 0.0 2.3 3.5#  
84 85.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 29.770 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

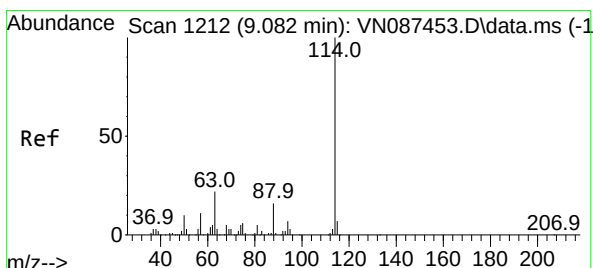
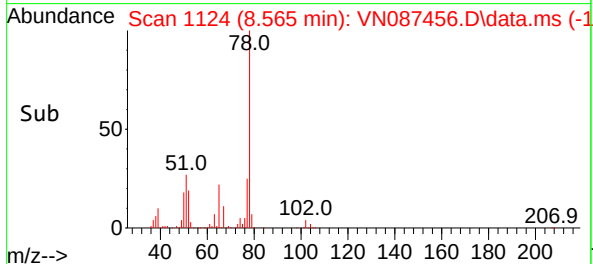
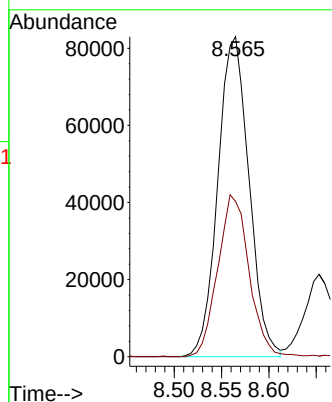
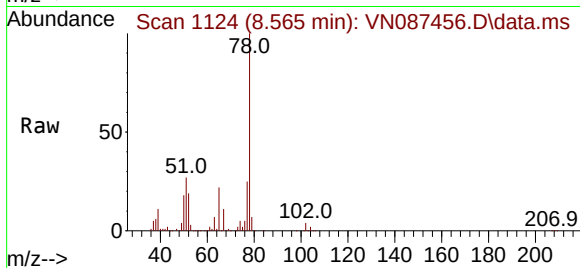
VSTDIC150

Tgt Ion: 65 Resp: 189674

Ion Ratio Lower Upper

65 100

67 50.9 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

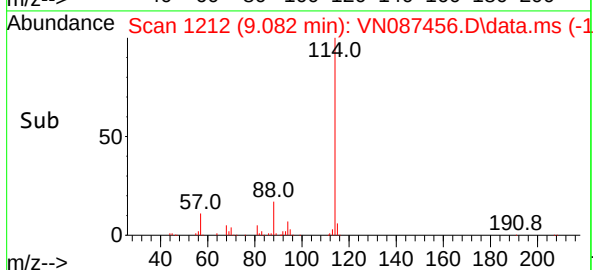
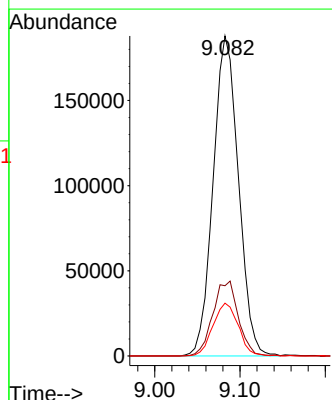
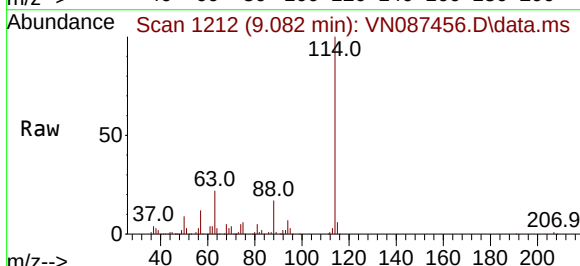
Tgt Ion: 114 Resp: 387583

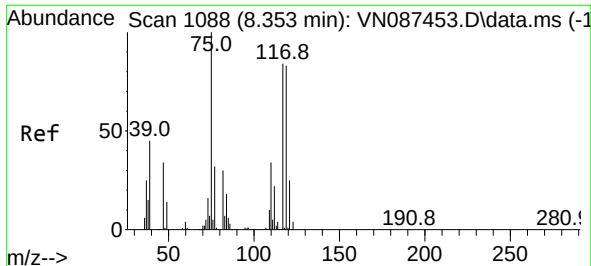
Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.5 13.1 19.7





#29

1,1-Dichloropropene

Concen: 152.623 ug/l

RT: 8.353 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

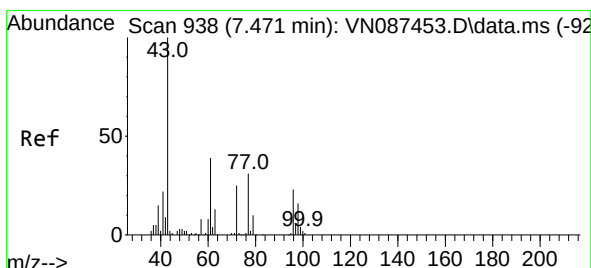
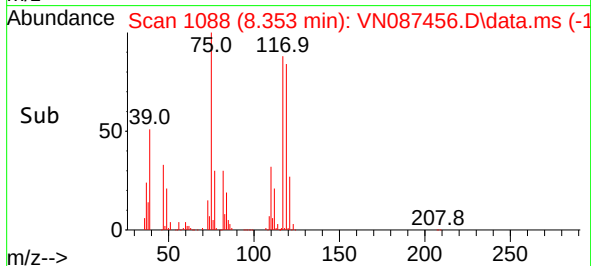
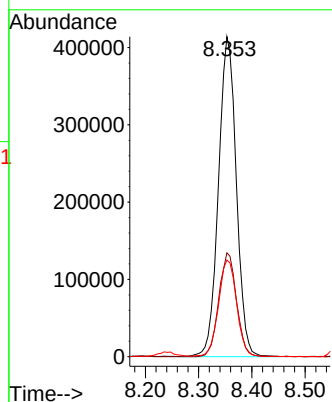
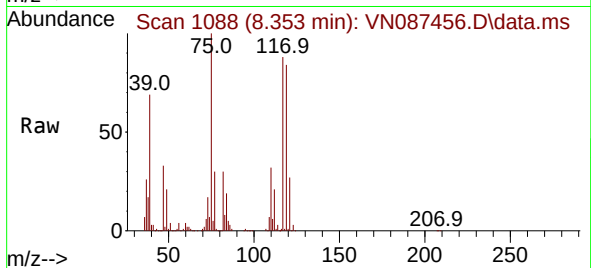
Tgt Ion: 75 Resp: 964808

Ion Ratio Lower Upper

75 100

110 32.1 0.0 65.8

77 30.3 0.0 63.6



#30

2-Butanone

Concen: 754.051 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

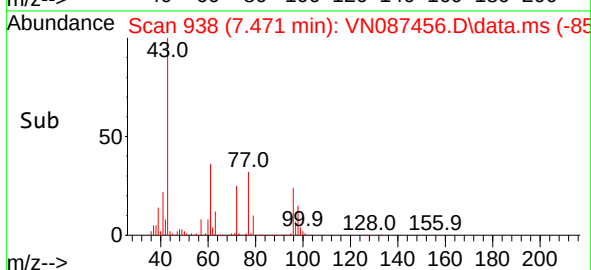
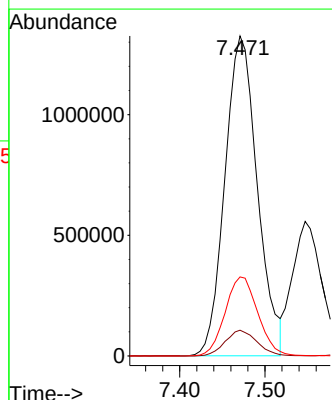
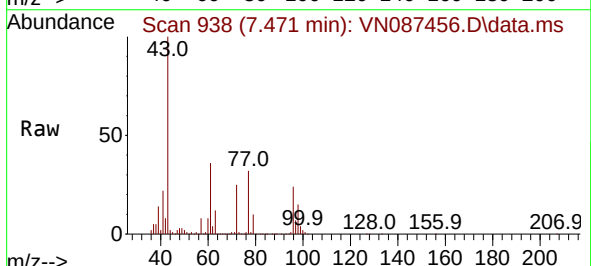
Tgt Ion: 43 Resp: 3513639

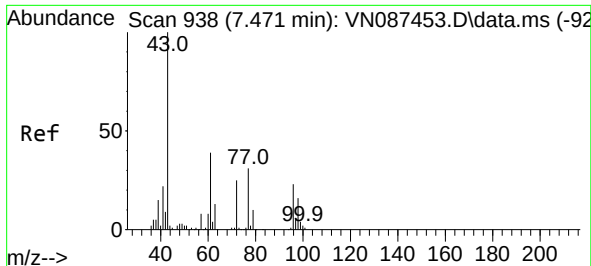
Ion Ratio Lower Upper

43 100

57 7.9 6.6 9.8

72 24.9 19.7 29.5





#31

2,2-Dichloropropane

Concen: 150.224 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

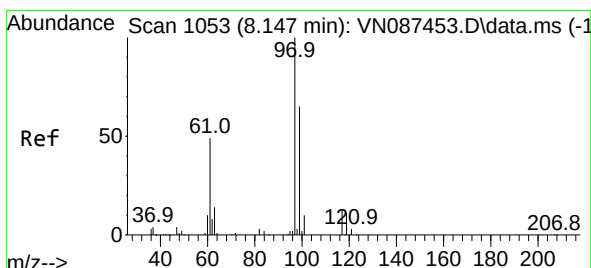
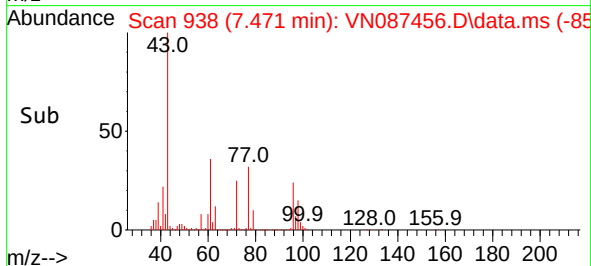
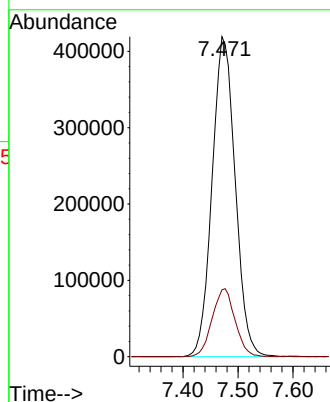
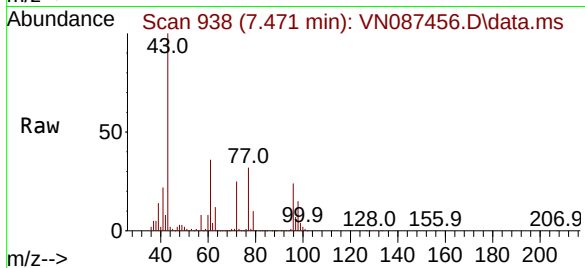
VSTDIC150

Tgt Ion: 77 Resp: 1224801

Ion Ratio Lower Upper

77 100

97 21.0 16.7 25.1



#32

1,1,1-Trichloroethane

Concen: 154.937 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

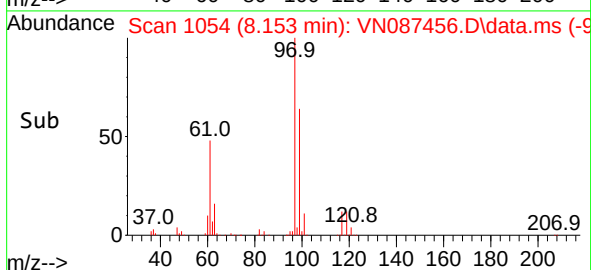
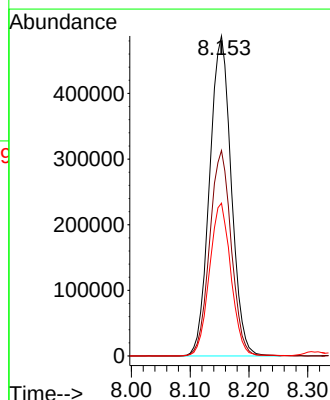
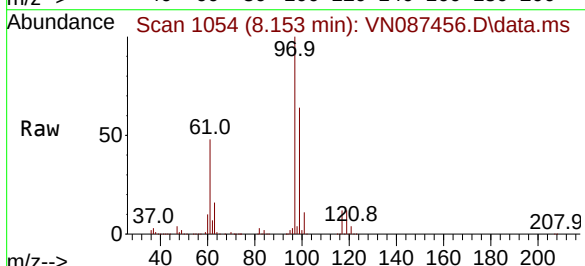
Tgt Ion: 97 Resp: 1249167

Ion Ratio Lower Upper

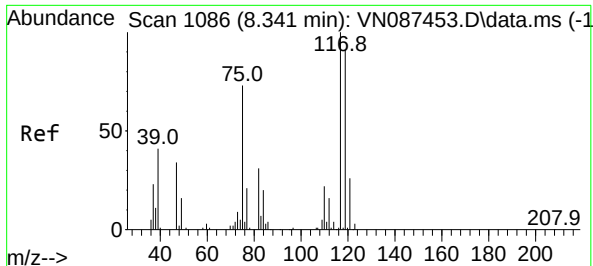
97 100

99 64.0 53.0 79.6

61 47.3 40.6 61.0



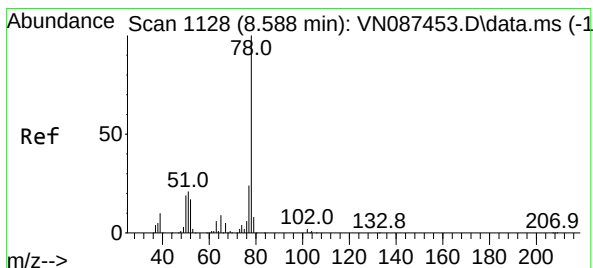
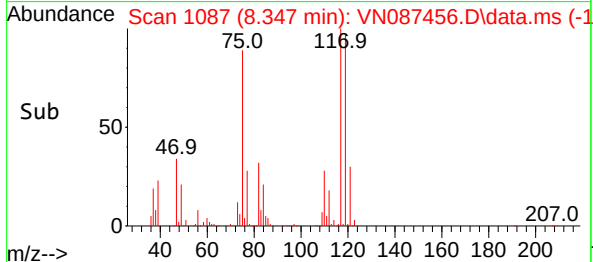
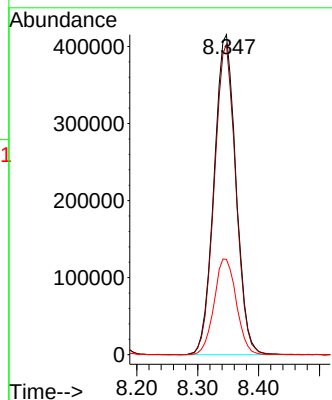
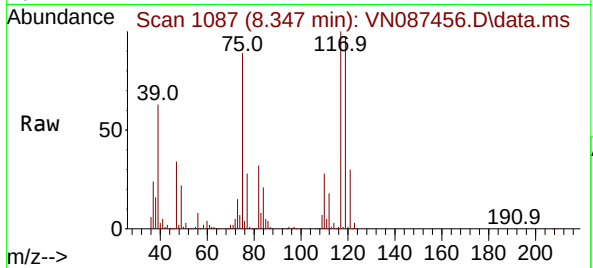




#33  
Carbon Tetrachloride  
Concen: 154.768 ug/l  
RT: 8.347 min Scan# 1086  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

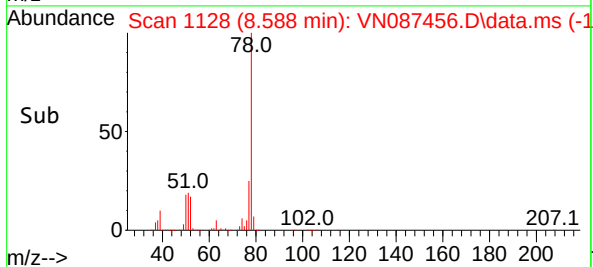
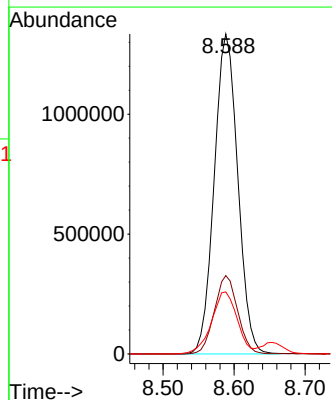
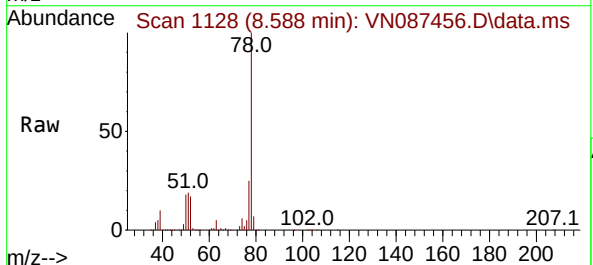
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

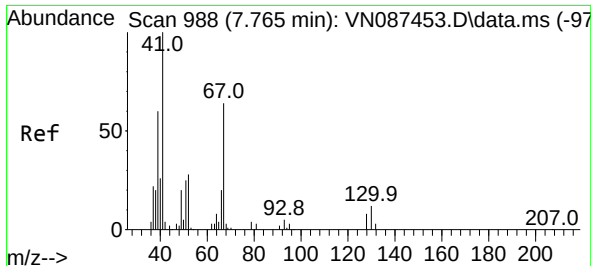
Tgt Ion:117 Resp: 1036608  
Ion Ratio Lower Upper  
117 100  
119 97.0 73.4 110.0  
121 29.8 21.1 31.7



#34  
Benzene  
Concen: 153.850 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 78 Resp: 3070072  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 19.3 16.9 25.3

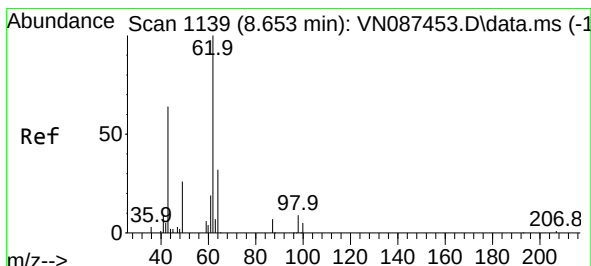
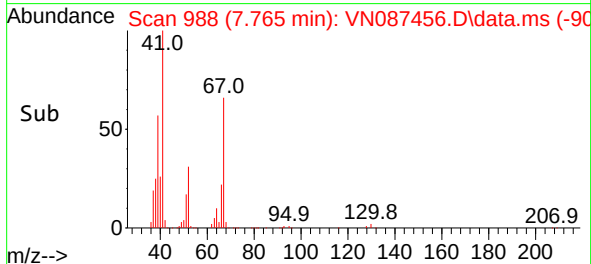
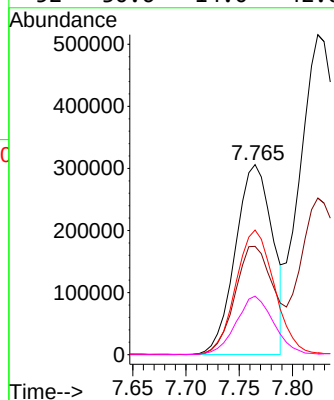
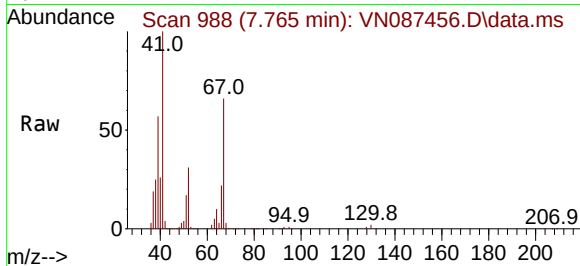




#35  
Methacrylonitrile  
Concen: 147.778 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

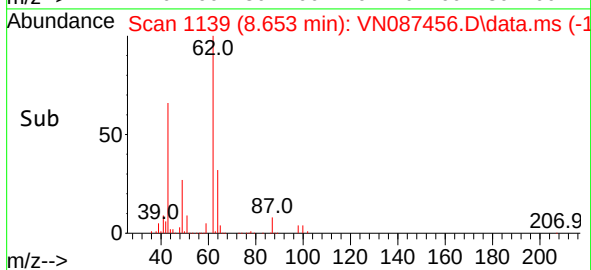
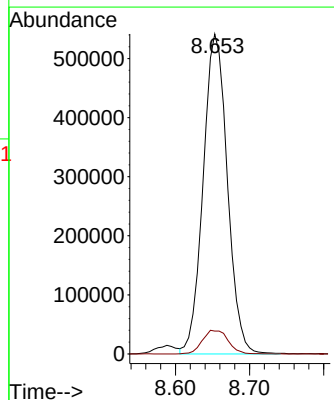
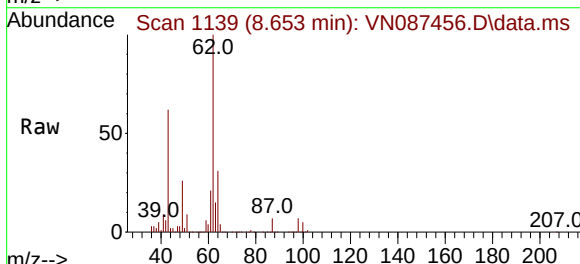
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

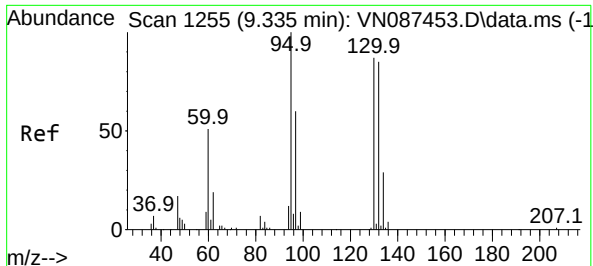
Tgt Ion: 41 Resp: 743083  
Ion Ratio Lower Upper  
41 100  
39 57.0 30.1 90.5  
67 65.6 32.0 96.2  
52 30.6 14.0 42.0



#36  
1,2-Dichloroethane  
Concen: 152.417 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 62 Resp: 1229451  
Ion Ratio Lower Upper  
62 100  
98 7.9 6.6 9.8

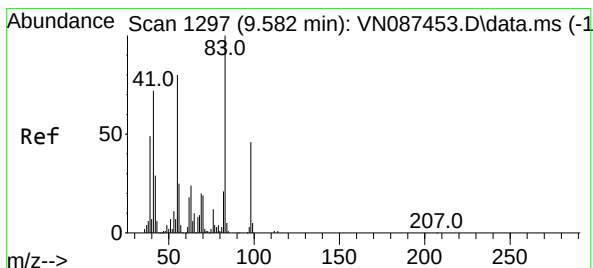
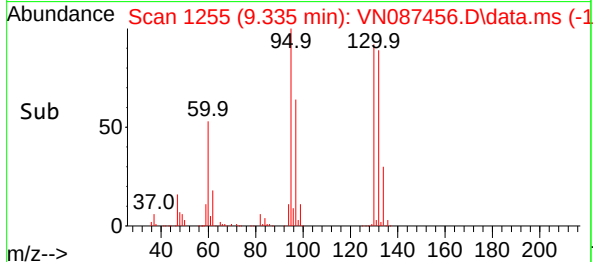
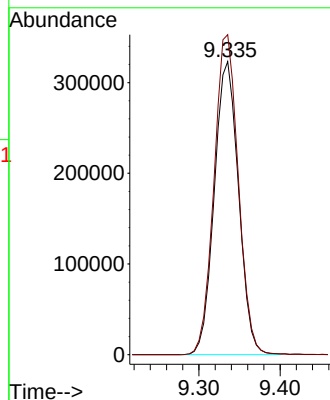
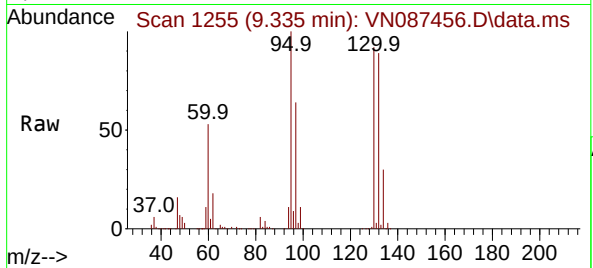




#37  
Trichloroethene  
Concen: 152.738 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

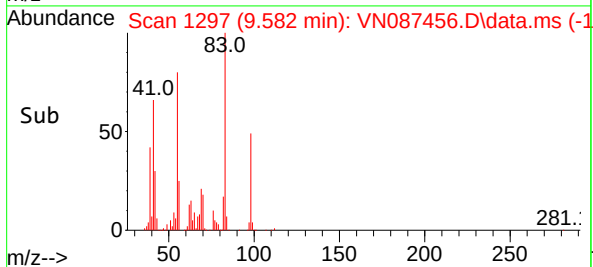
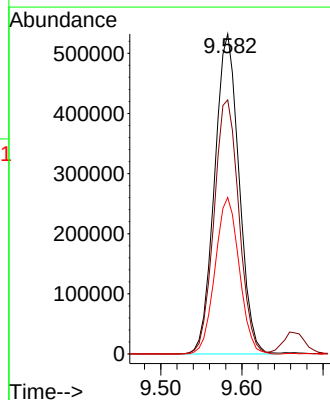
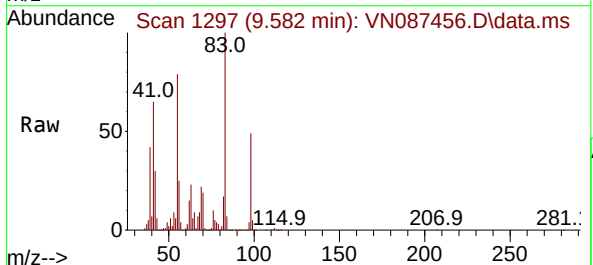
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

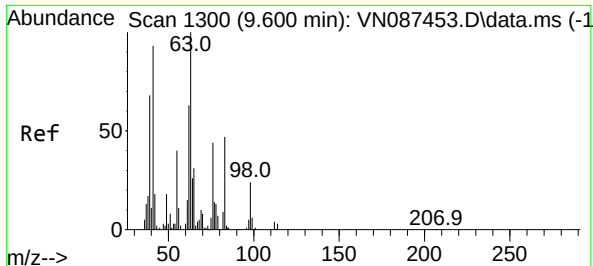
Tgt Ion:130 Resp: 671378  
Ion Ratio Lower Upper  
130 100  
95 109.1 91.4 137.2



#38  
Methylcyclohexane  
Concen: 152.053 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 83 Resp: 1115098  
Ion Ratio Lower Upper  
83 100  
55 80.9 41.2 123.6  
98 48.3 23.3 69.9





#39

1,2-Dichloropropane

Concen: 151.562 ug/l

RT: 9.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

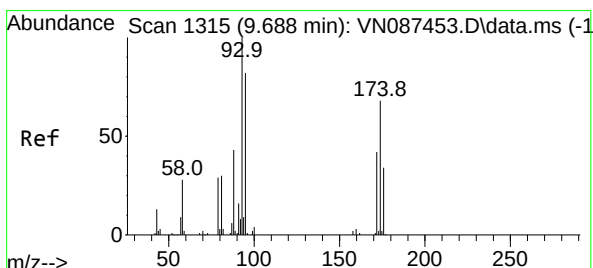
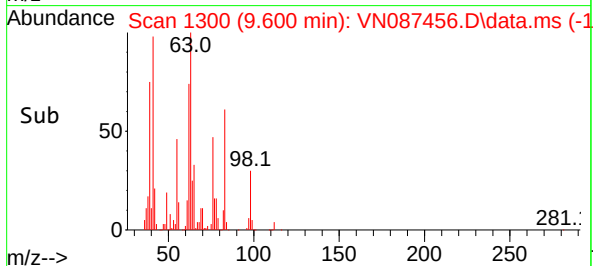
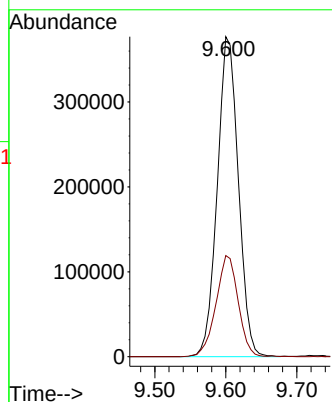
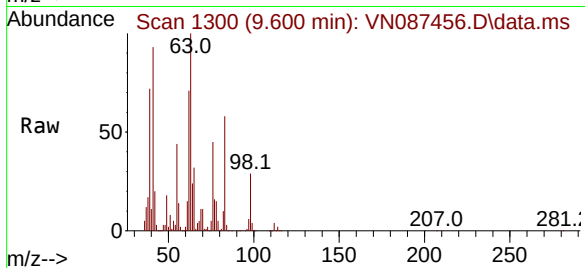
VSTDIC150

Tgt Ion: 63 Resp: 775438

Ion Ratio Lower Upper

63 100

65 31.6 24.6 36.8



#40

Dibromomethane

Concen: 152.708 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

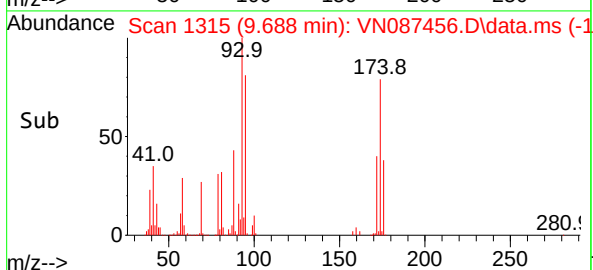
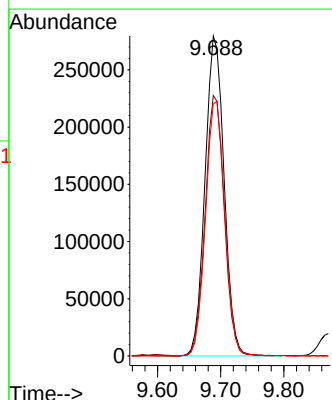
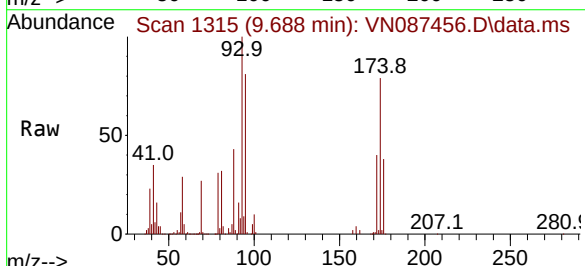
Tgt Ion: 93 Resp: 586203

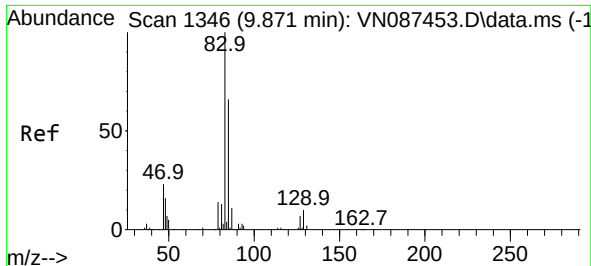
Ion Ratio Lower Upper

93 100

95 81.8 0.0 161.6

174 80.6 0.0 151.4

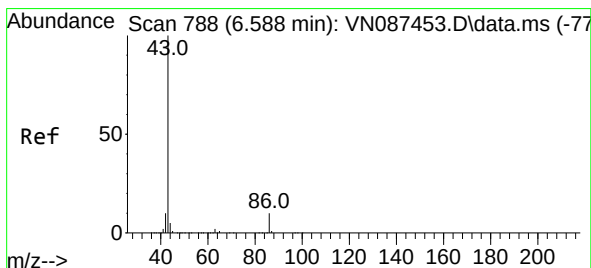
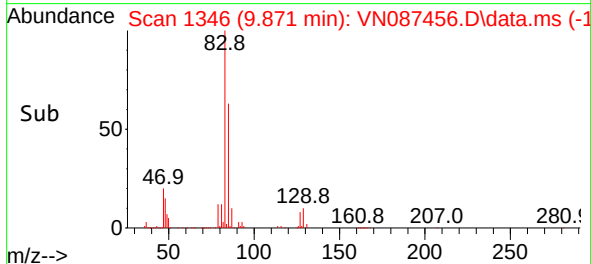
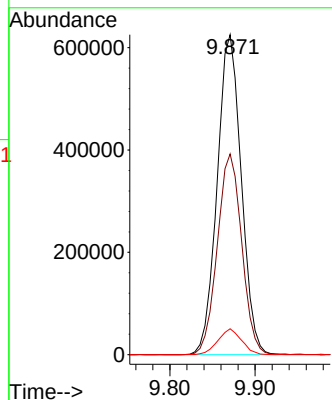
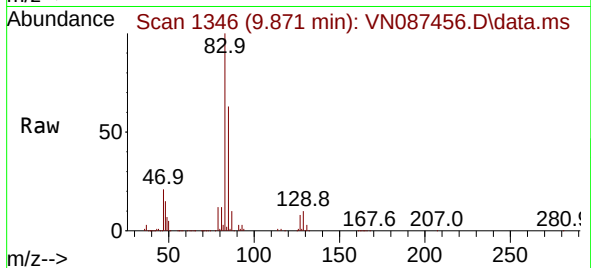




#41  
Bromodichloromethane  
Concen: 154.020 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

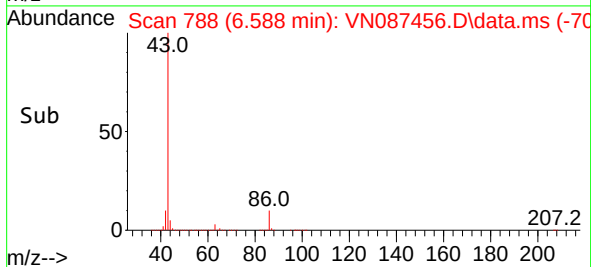
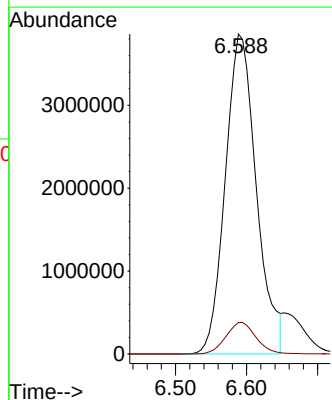
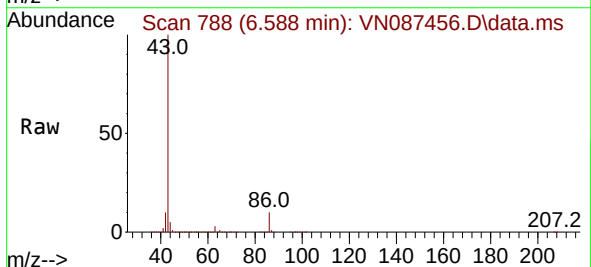
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

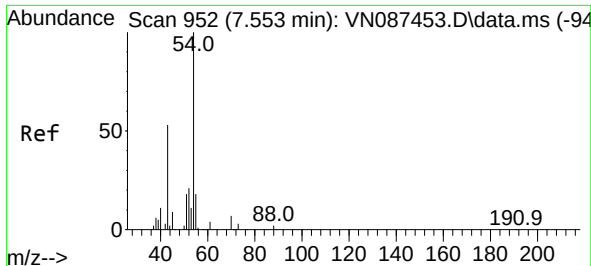
Tgt Ion: 83 Resp: 1228566  
Ion Ratio Lower Upper  
83 100  
85 62.7 52.9 79.3  
127 8.1 5.8 8.6



#42  
Vinyl Acetate  
Concen: 765.203 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 11742175  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.3 10.9

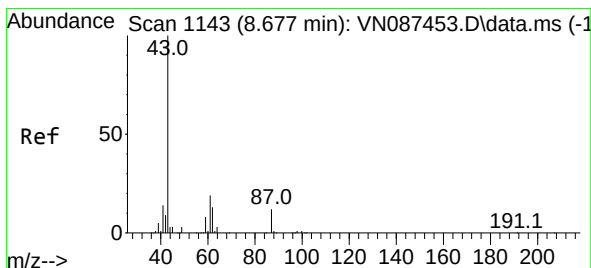
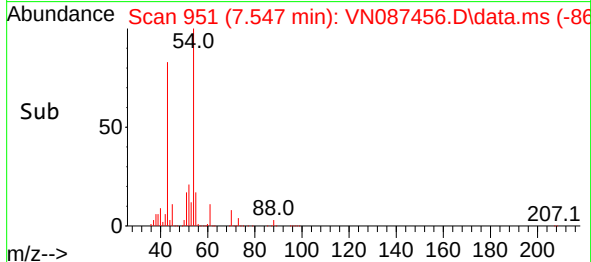
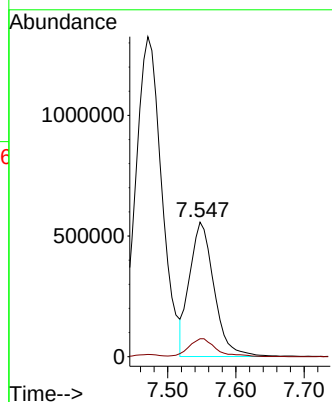
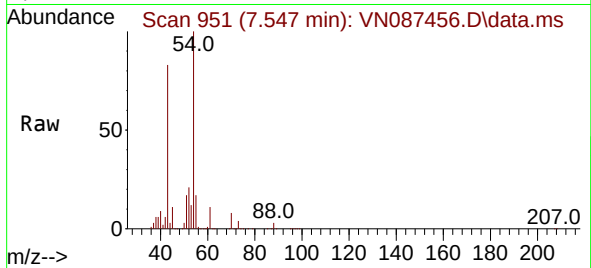




#43  
Ethyl Acetate  
Concen: 156.385 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

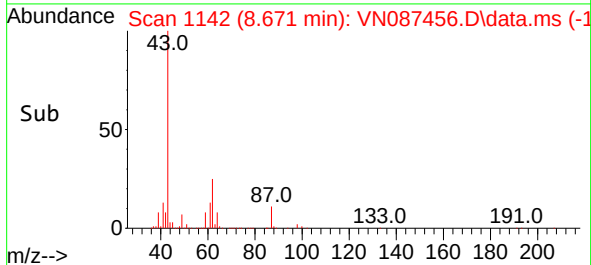
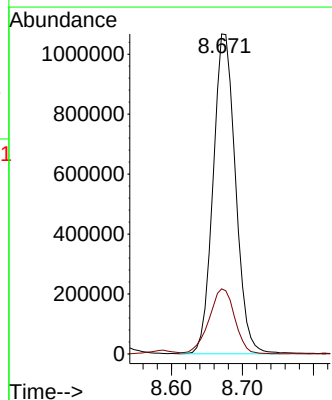
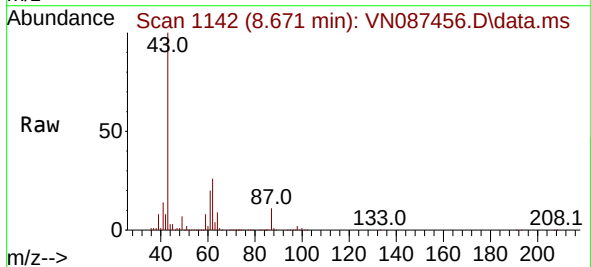
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

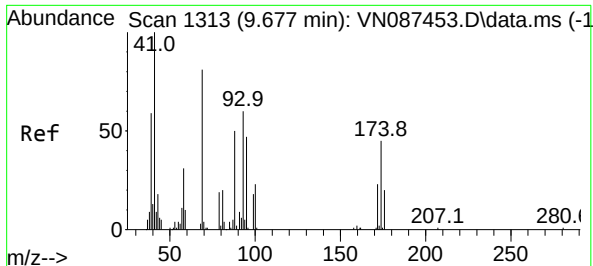
Tgt Ion: 43 Resp: 1387131  
Ion Ratio Lower Upper  
43 100  
45 14.7 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 152.869 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 2332673  
Ion Ratio Lower Upper  
43 100  
61 23.6 18.6 28.0





#45

1,4-Dioxane

Concen: 3019.679 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

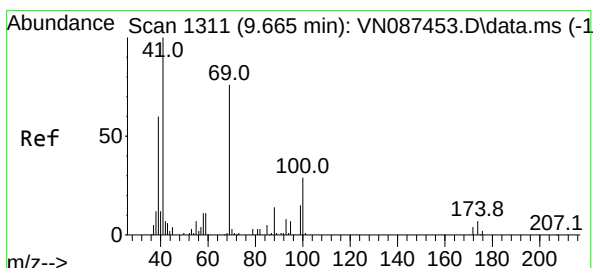
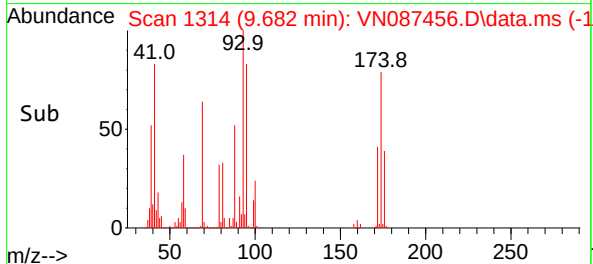
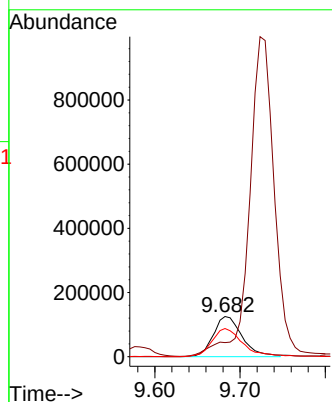
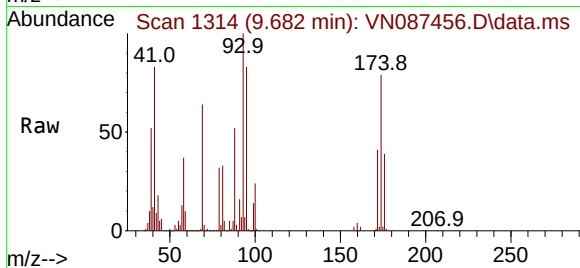
Tgt Ion: 88 Resp: 293747

Ion Ratio Lower Upper

88 100

43 23.1 24.1 36.1#

58 75.8 57.2 85.8



#46

Methyl methacrylate

Concen: 157.486 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

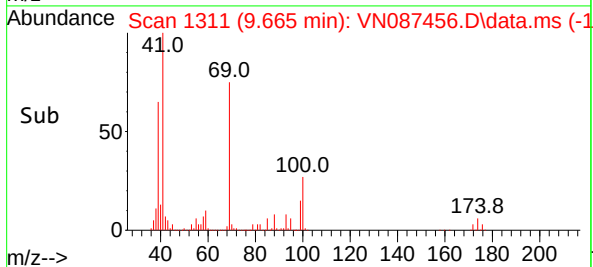
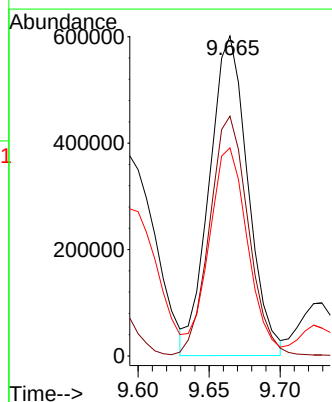
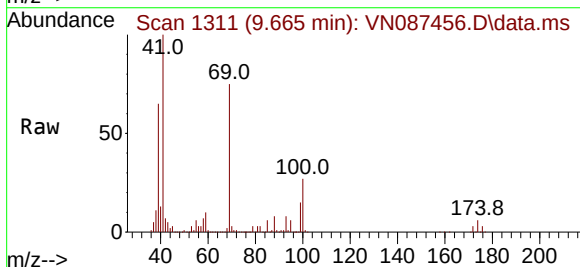
Tgt Ion: 41 Resp: 1134360

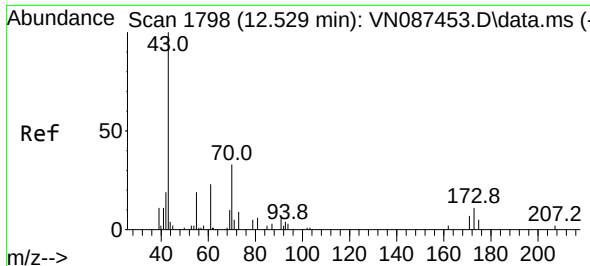
Ion Ratio Lower Upper

41 100

69 77.5 37.1 111.5

39 65.4 30.7 92.1

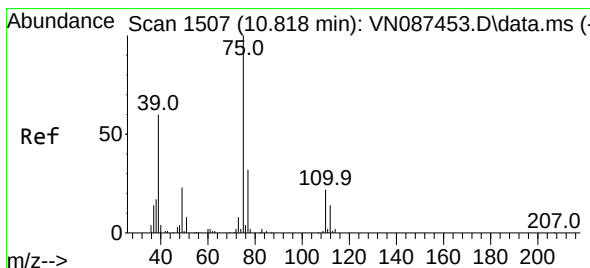
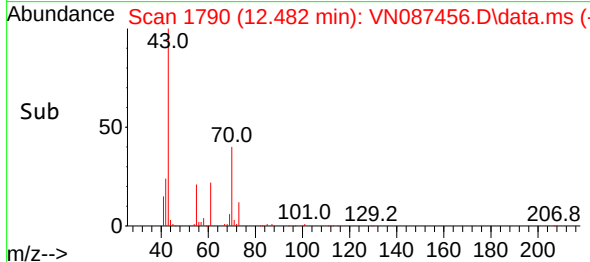
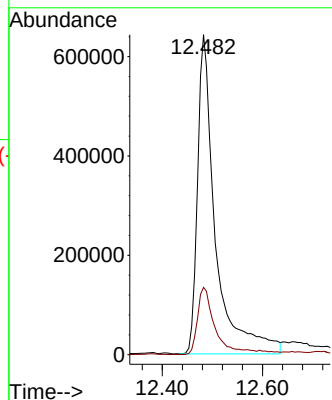
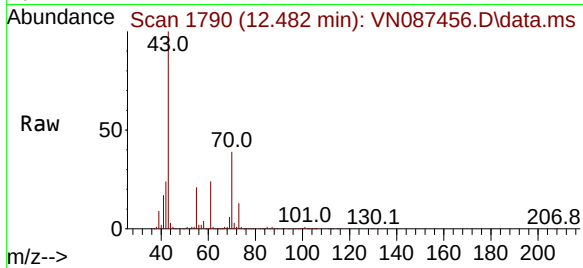




#47  
n-amy1 Acetate  
Concen: 207.839 ug/l  
RT: 12.482 min Scan# 11  
Delta R.T. -0.047 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

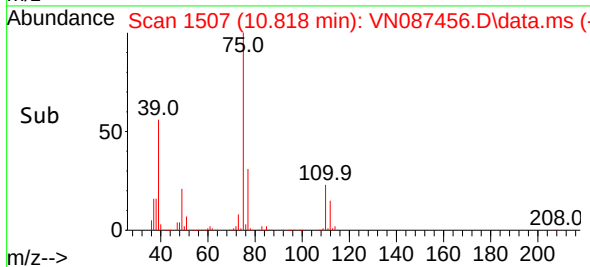
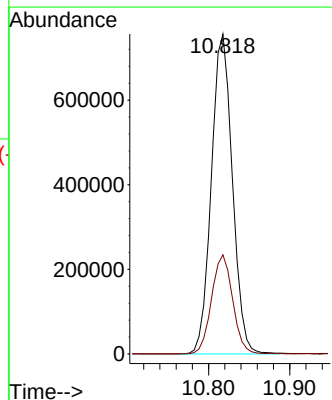
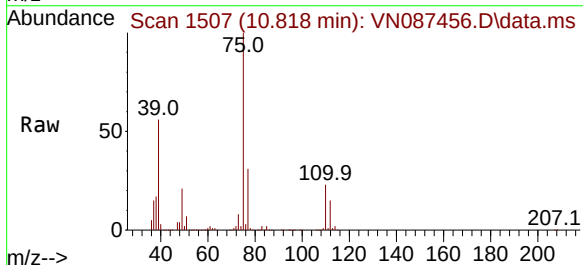
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

Tgt Ion: 43 Resp: 1594700  
Ion Ratio Lower Upper  
43 100  
55 19.6 4.6 6.8#

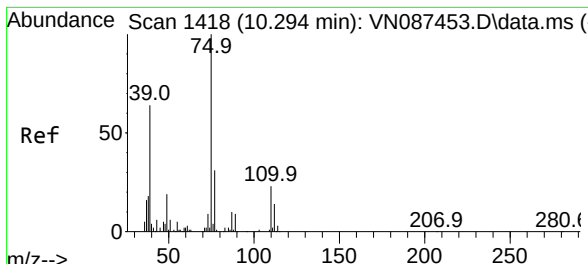


#48  
t-1,3-Dichloropropene  
Concen: 156.815 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 75 Resp: 1360863  
Ion Ratio Lower Upper  
75 100  
77 30.9 25.3 37.9





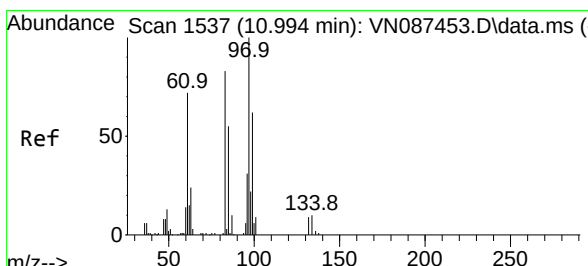
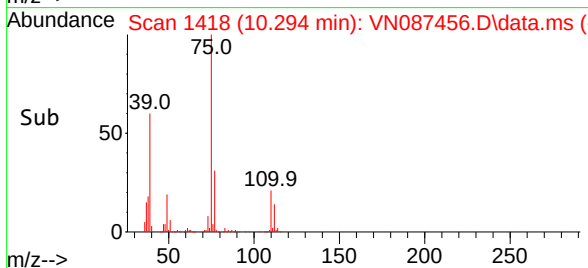
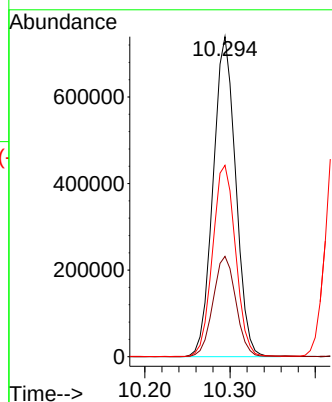
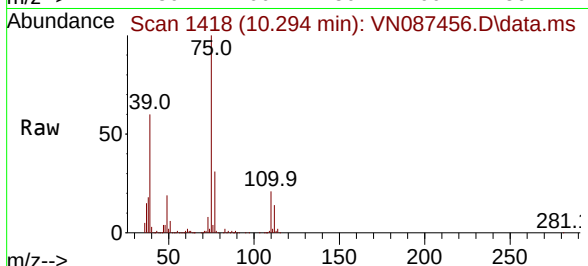


#49  
 cis-1,3-Dichloropropene  
 Concen: 156.195 ug/l  
 RT: 10.294 min Scan# 1418  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

Tgt Ion: 75 Resp: 1364130  

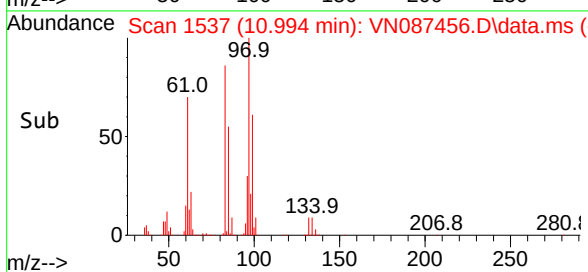
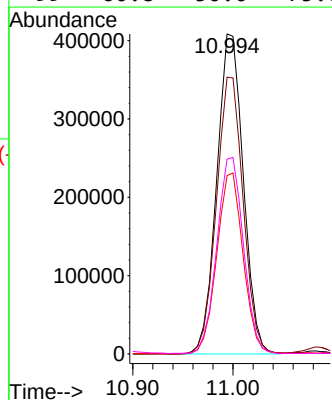
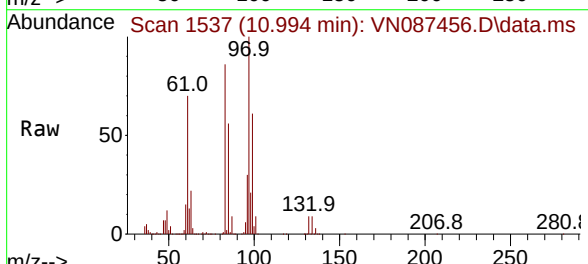
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 31.3  | 24.6  | 36.8  |
| 39  | 59.7  | 51.5  | 77.3  |

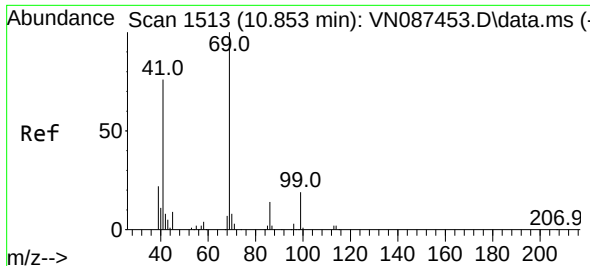


#50  
 1,1,2-Trichloroethane  
 Concen: 154.919 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Tgt Ion: 97 Resp: 751367  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.5  | 66.2  | 99.2  |
| 85  | 55.7  | 43.9  | 65.9  |
| 99  | 60.8  | 50.0  | 75.0  |

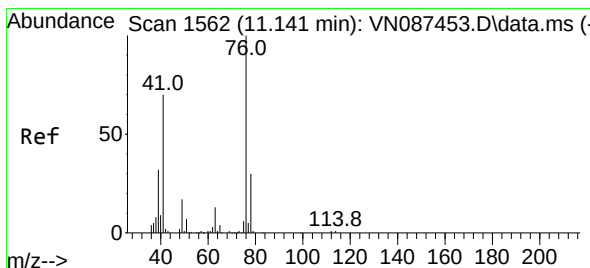
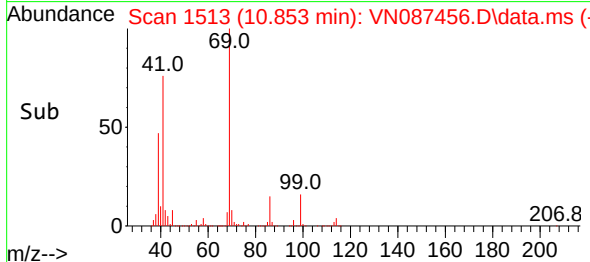
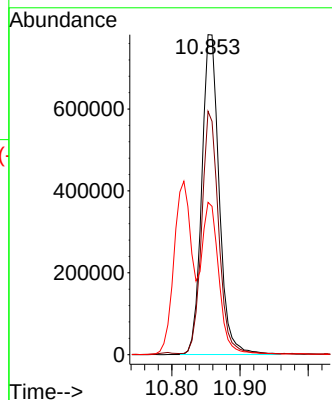
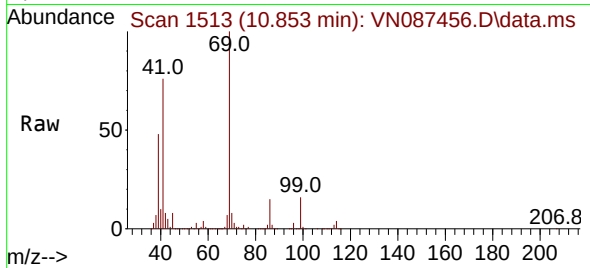




#51  
Ethyl methacrylate  
Concen: 162.554 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

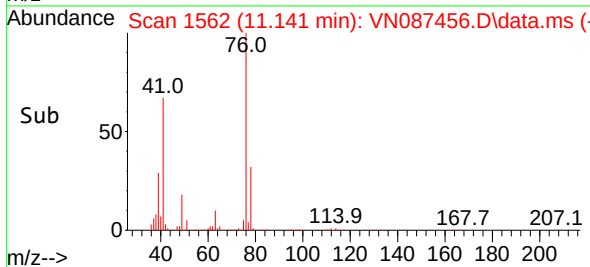
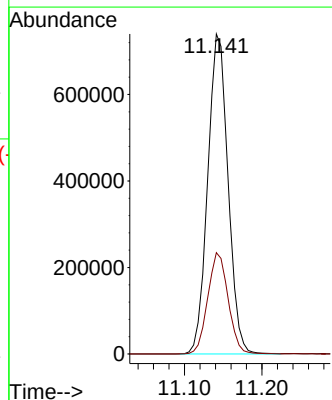
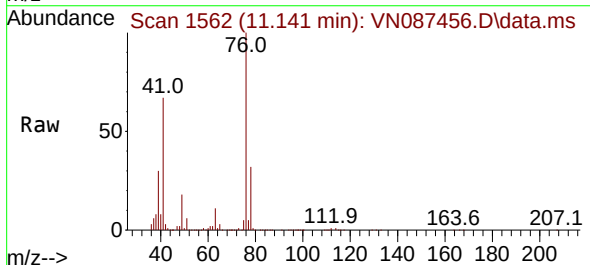
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

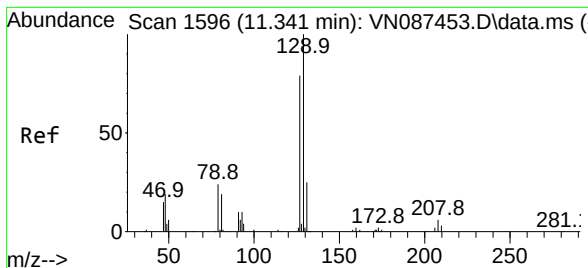
Tgt Ion: 69 Resp: 1388488  
Ion Ratio Lower Upper  
69 100  
41 75.8 38.0 114.1  
39 47.4 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 154.396 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 76 Resp: 1349103  
Ion Ratio Lower Upper  
76 100  
78 31.8 0.0 63.0

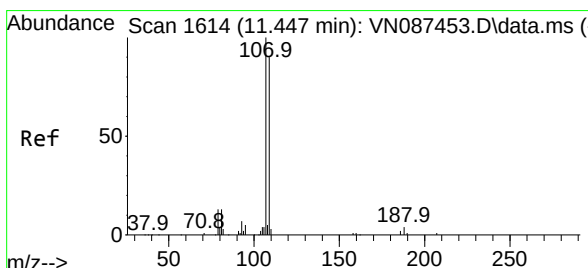
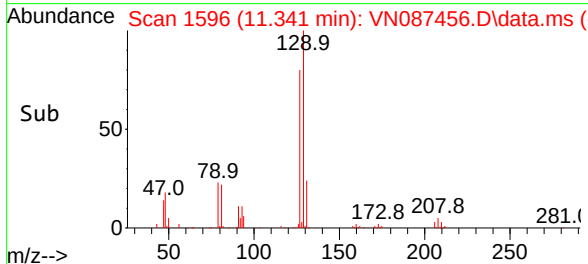
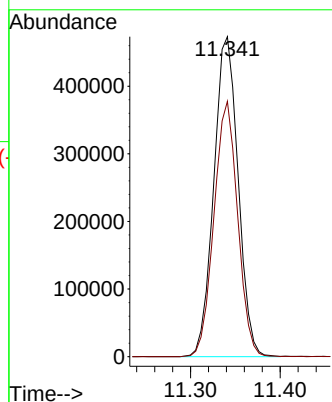
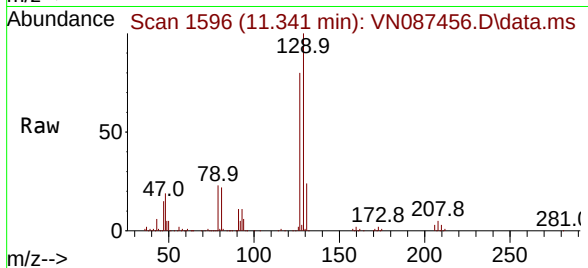




#53  
Dibromochloromethane  
Concen: 159.011 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

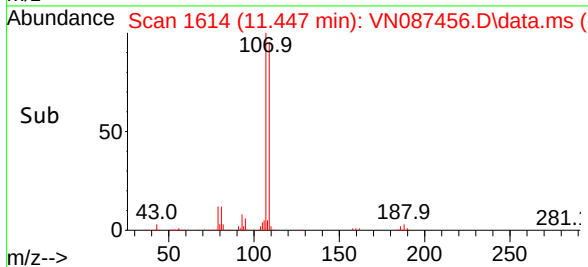
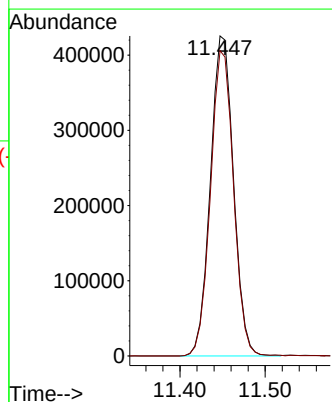
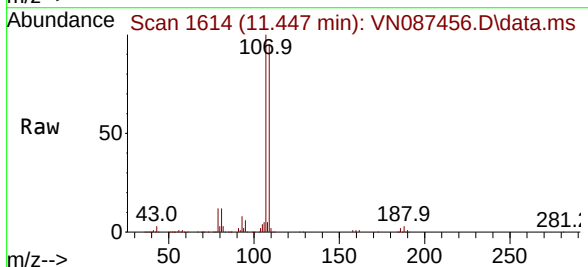
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

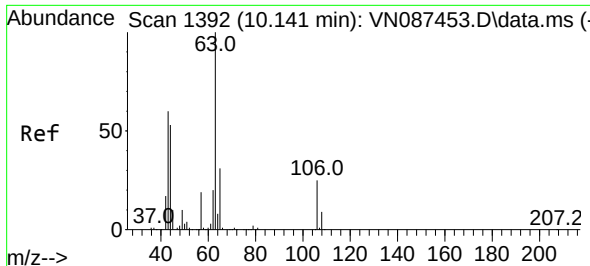
Tgt Ion:129 Resp: 890655  
Ion Ratio Lower Upper  
129 100  
127 77.7 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 155.619 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:107 Resp: 801234  
Ion Ratio Lower Upper  
107 100  
109 94.8 74.2 111.4

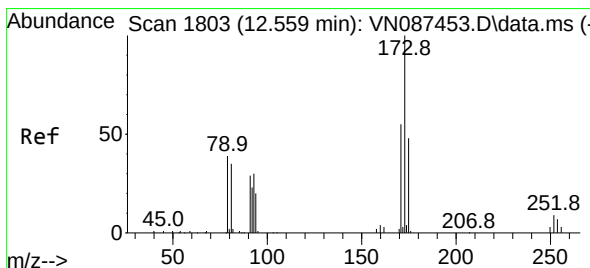
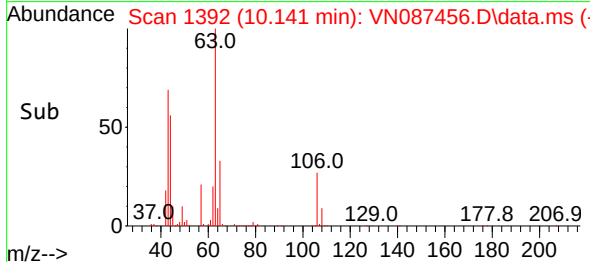
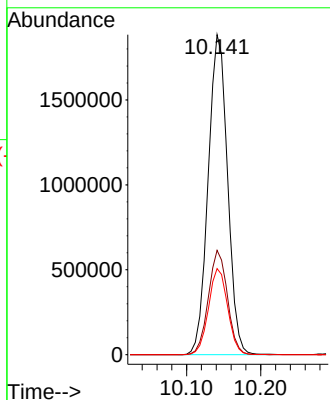
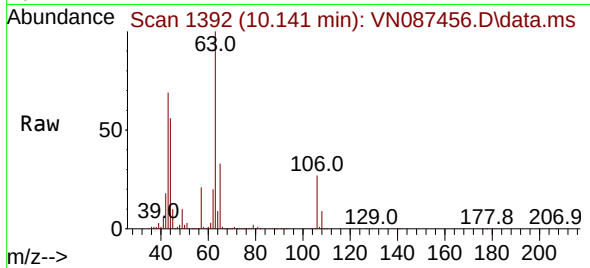




#55  
2-Chloroethyl vinyl ether  
Concen: 761.062 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

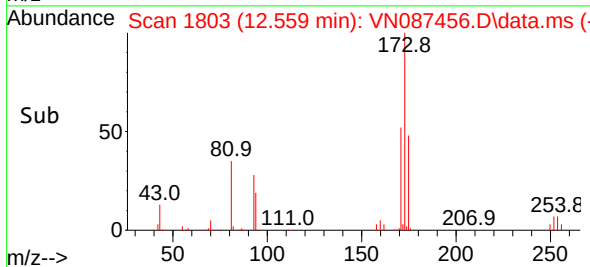
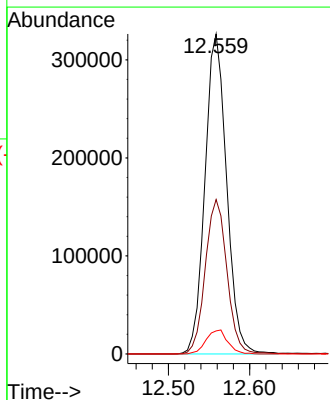
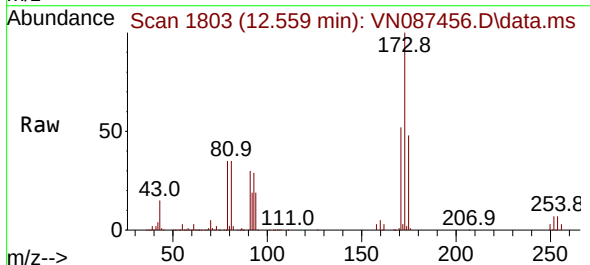
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

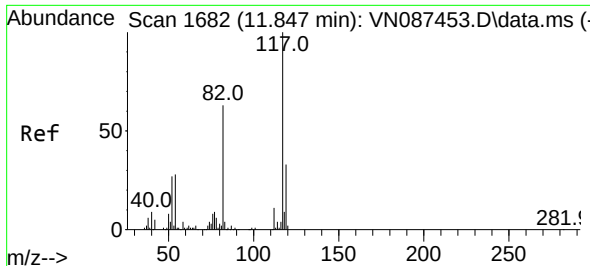
Tgt Ion: 63 Resp: 3422234  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 26.6 20.7 31.1



#56  
Bromoform  
Concen: 163.094 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:173 Resp: 604236  
Ion Ratio Lower Upper  
173 100  
175 48.3 38.8 58.2  
254 7.5 3.9 5.9#

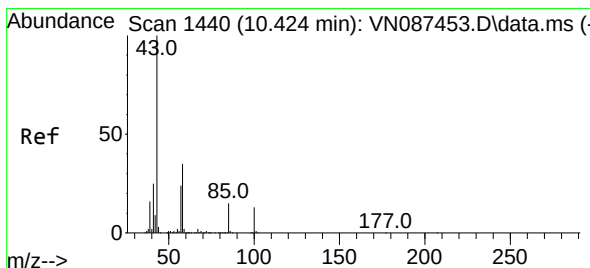
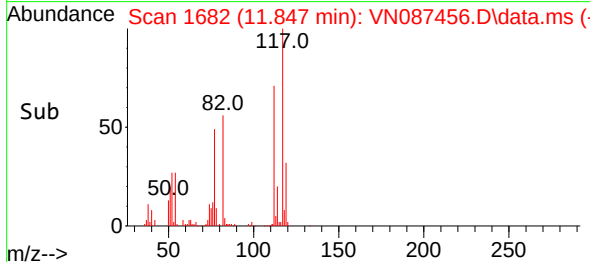
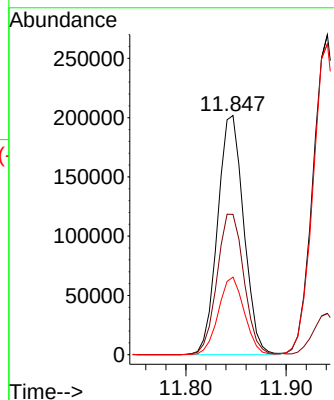
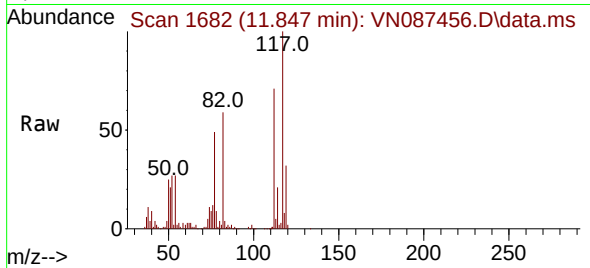




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1182  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

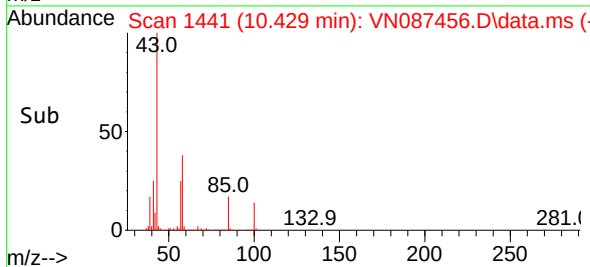
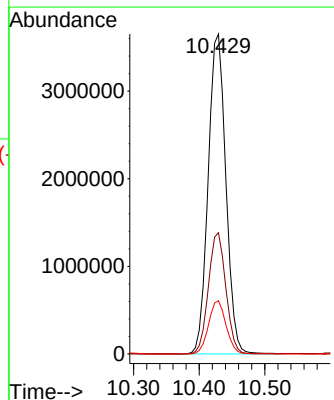
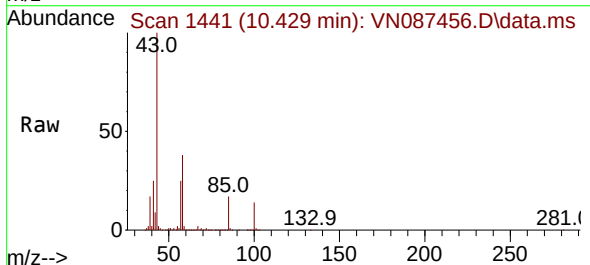
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

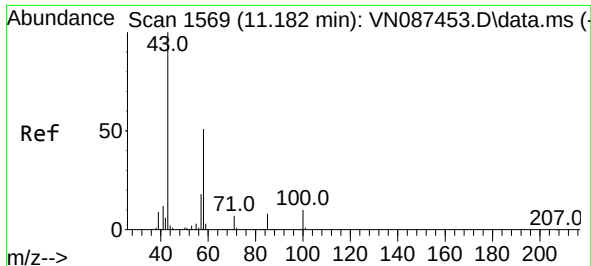
Tgt Ion:117 Resp: 364557  
Ion Ratio Lower Upper  
117 100  
82 60.7 49.2 73.8  
119 32.1 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 729.674 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 6842960  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.0 43.6  
85 16.5 12.7 19.1

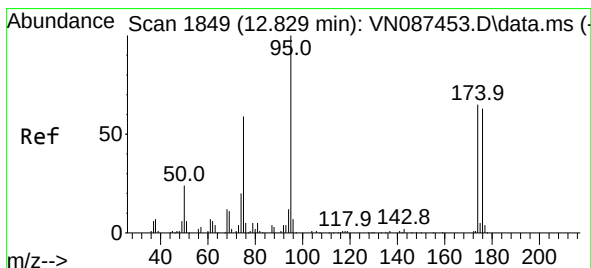
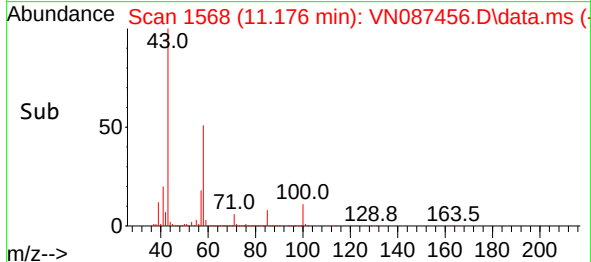
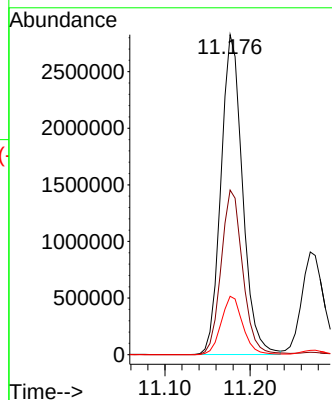
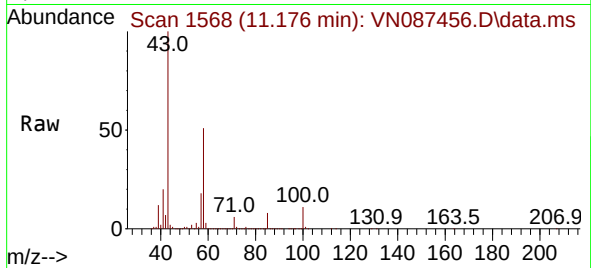




#59  
2-Hexanone  
Concen: 780.064 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

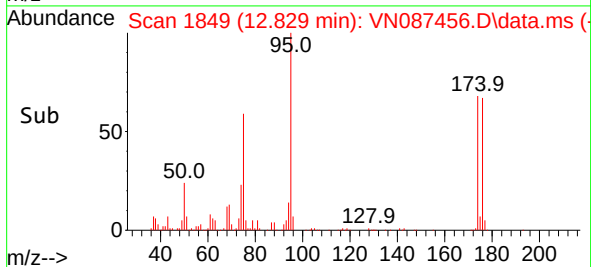
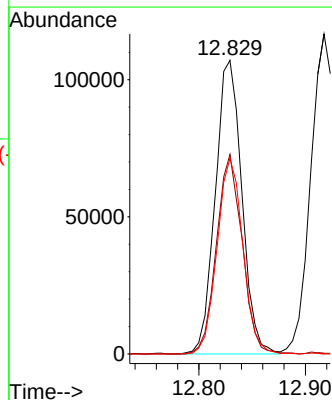
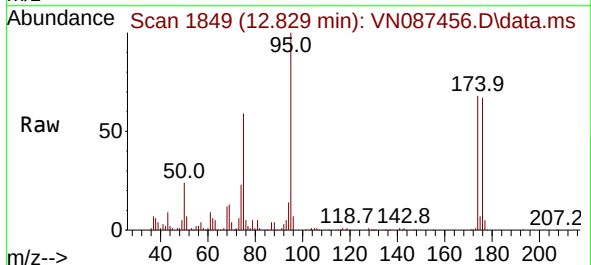
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

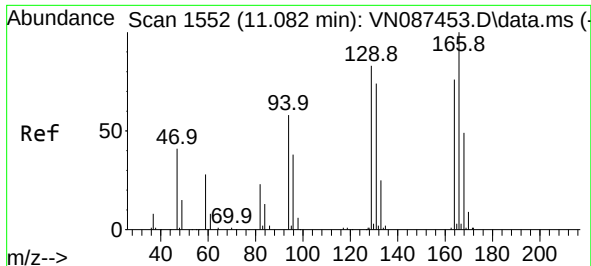
Tgt Ion: 43 Resp: 4970555  
Ion Ratio Lower Upper  
43 100  
58 51.6 41.0 61.6  
57 18.2 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 29.518 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 95 Resp: 185190  
Ion Ratio Lower Upper  
95 100  
174 65.4 52.3 78.5  
176 64.2 49.8 74.8

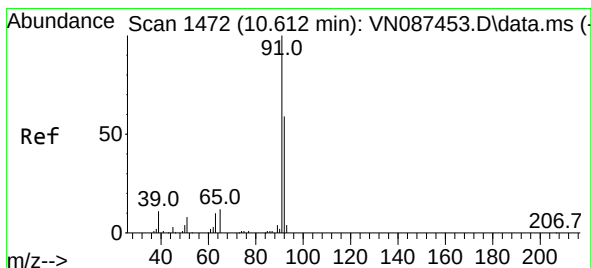
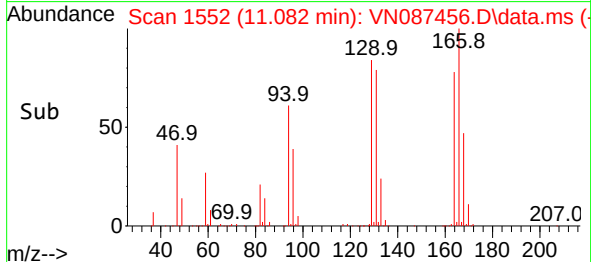
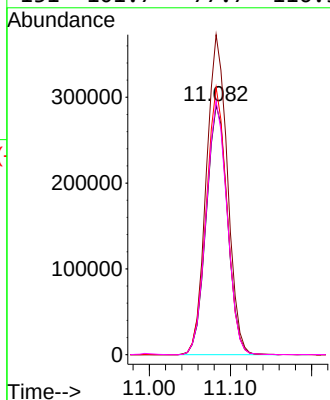
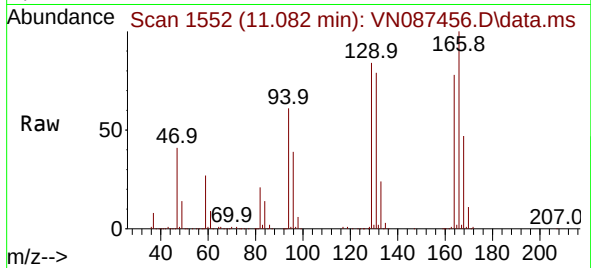




#61  
Tetrachloroethene  
Concen: 148.447 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

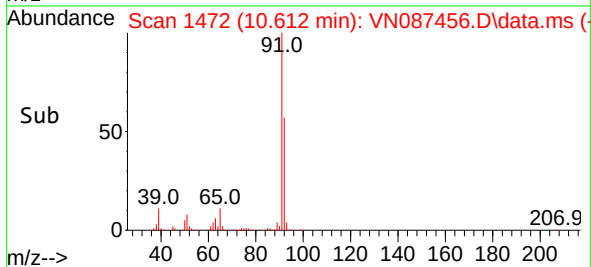
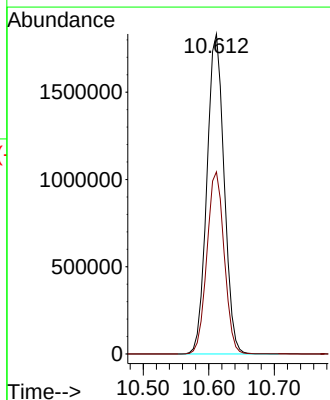
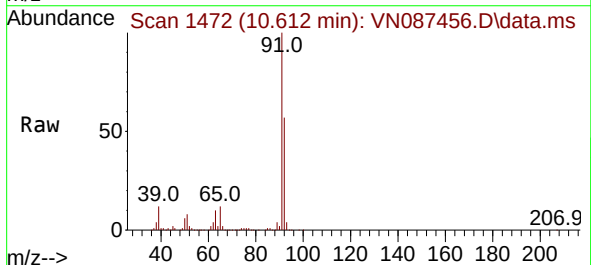
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

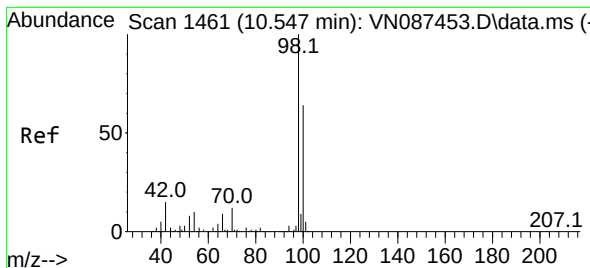
Tgt Ion:164 Resp: 527237  
Ion Ratio Lower Upper  
164 100  
166 128.4 105.4 158.0  
129 107.2 87.7 131.5  
131 101.7 77.7 116.5



#62  
Toluene  
Concen: 148.669 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 3345117  
Ion Ratio Lower Upper  
91 100  
92 57.1 45.8 68.6





#63

Toluene-d8

Concen: 29.029 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA\_N

ClientSampleId :

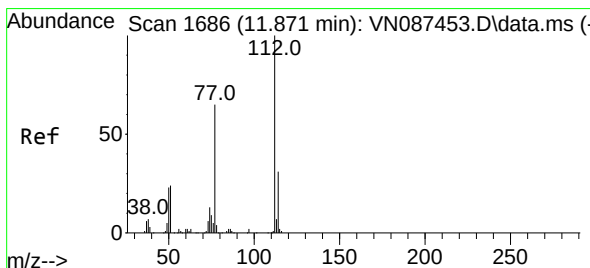
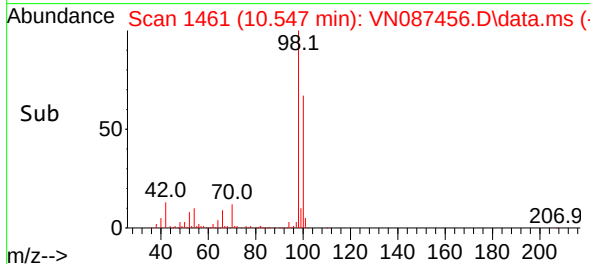
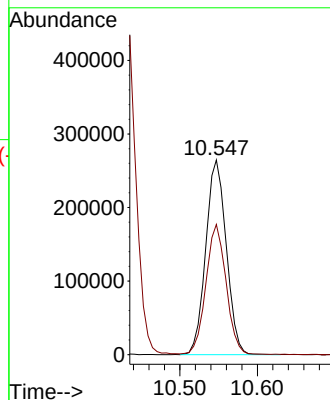
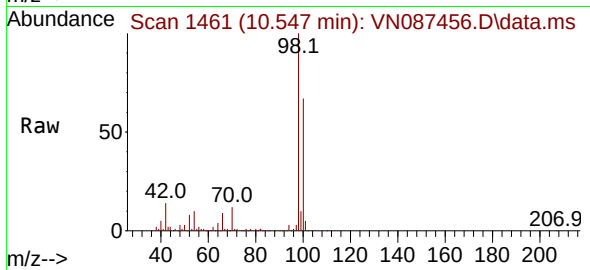
VSTDIC150

Tgt Ion: 98 Resp: 486934

Ion Ratio Lower Upper

98 100

100 66.0 50.5 75.7



#64

Chlorobenzene

Concen: 149.658 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN087456.D

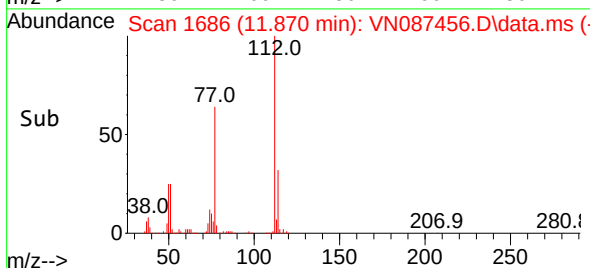
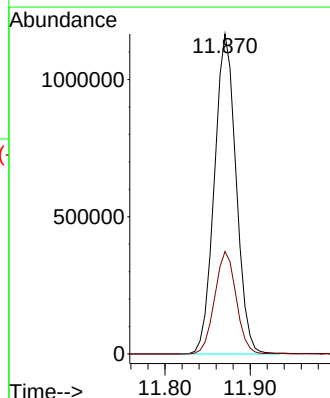
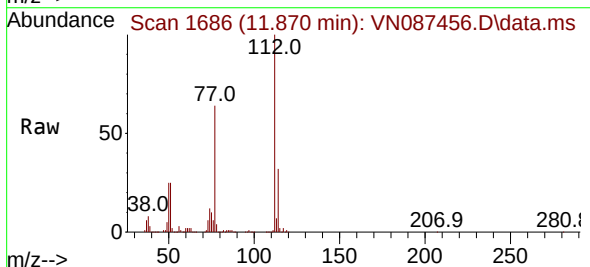
Acq: 05 Aug 2025 15:01

Tgt Ion: 112 Resp: 2069135

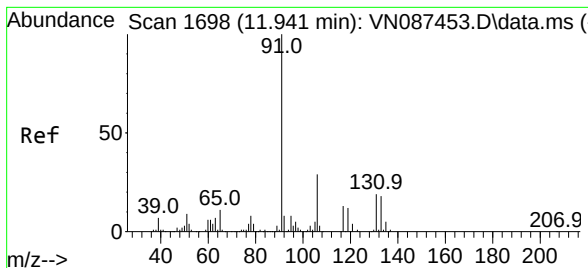
Ion Ratio Lower Upper

112 100

114 32.0 24.7 37.1



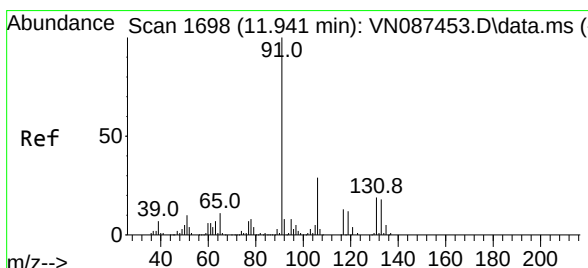
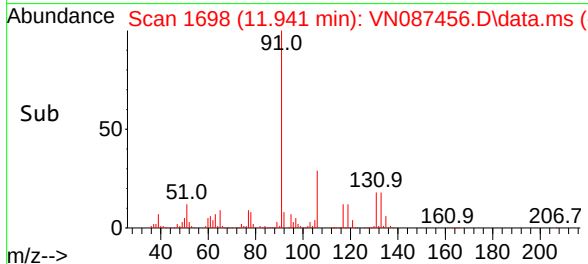
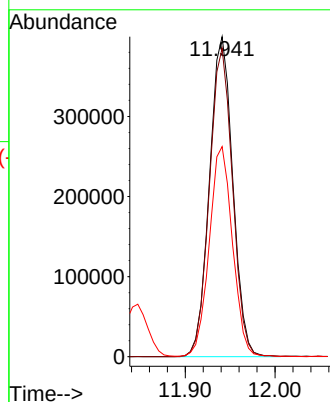
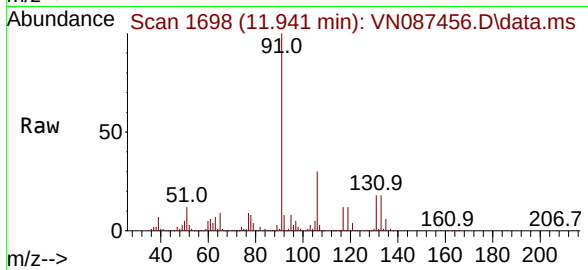




#65  
1,1,1,2-Tetrachloroethane  
Concen: 148.418 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

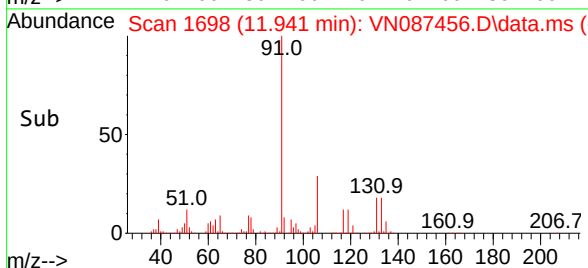
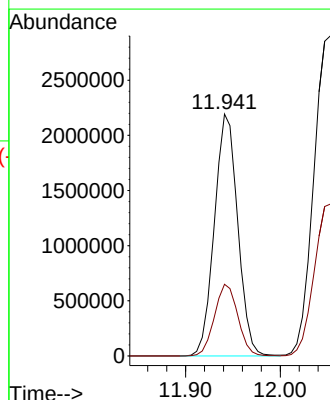
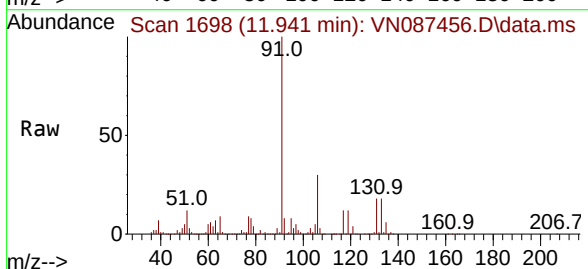
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

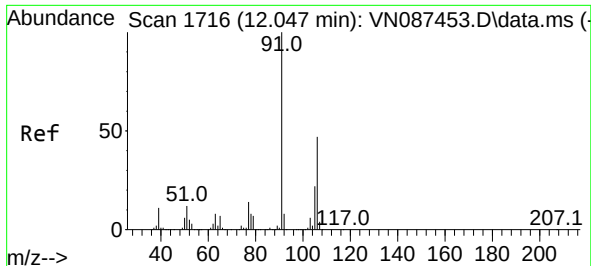
Tgt Ion:131 Resp: 721459  
Ion Ratio Lower Upper  
131 100  
133 95.6 0.0 189.8  
119 65.5 0.0 133.2



#66  
Ethyl Benzene  
Concen: 150.033 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 3762645  
Ion Ratio Lower Upper  
91 100  
106 29.6 22.9 34.3

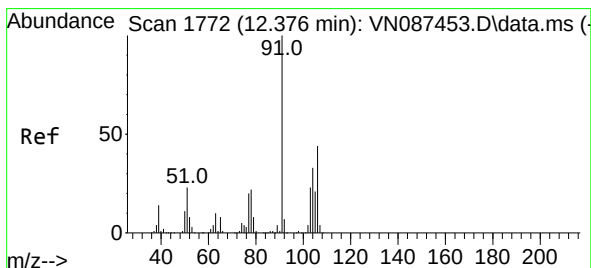
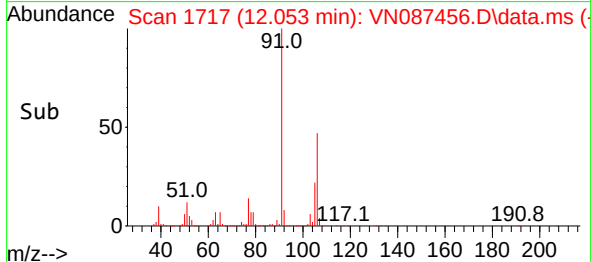
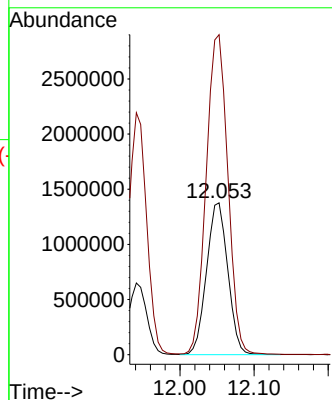
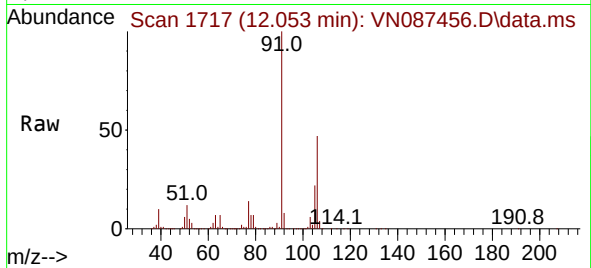




#67  
m/p-Xylenes  
Concen: 298.294 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

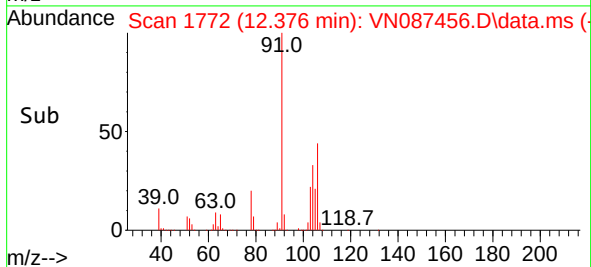
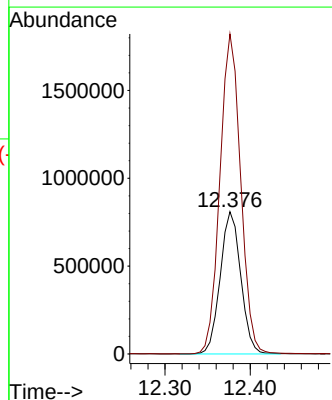
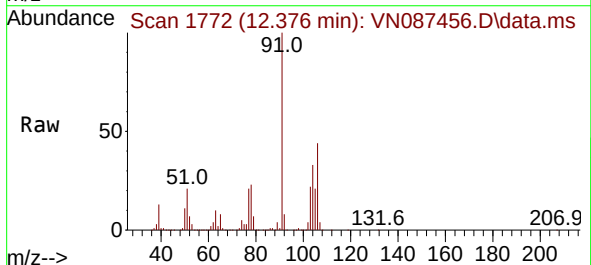
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

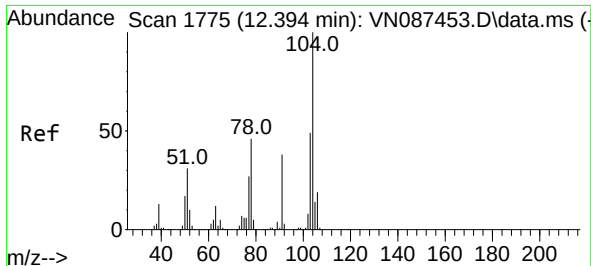
Tgt Ion:106 Resp: 2745929  
Ion Ratio Lower Upper  
106 100  
91 214.5 174.2 261.2



#68  
o-Xylene  
Concen: 149.962 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:106 Resp: 1358102  
Ion Ratio Lower Upper  
106 100  
91 227.2 114.5 343.5

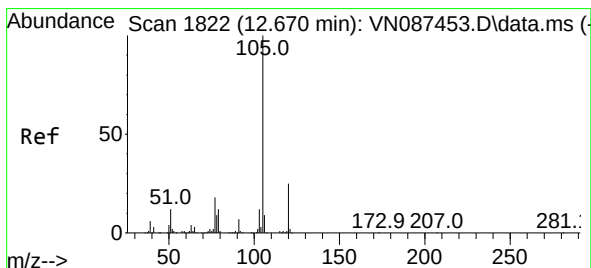
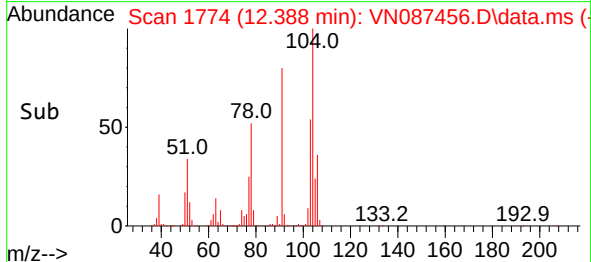
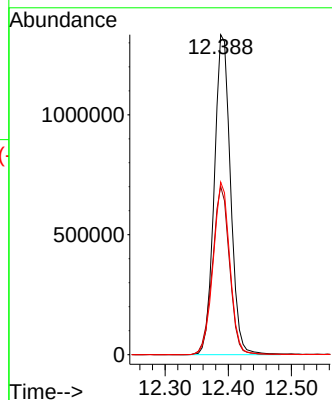
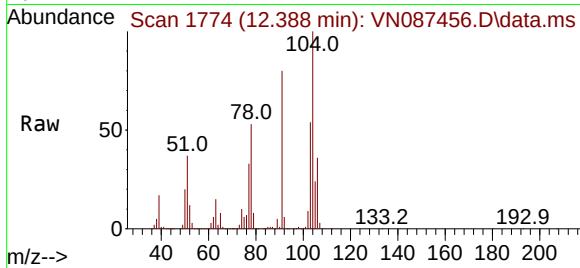




#69  
Styrene  
Concen: 154.045 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

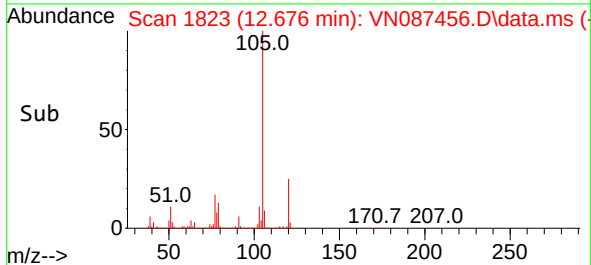
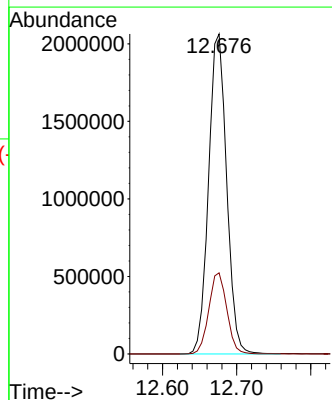
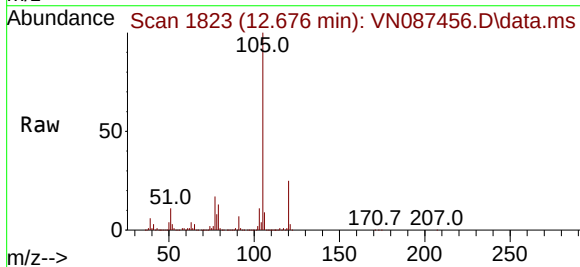
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

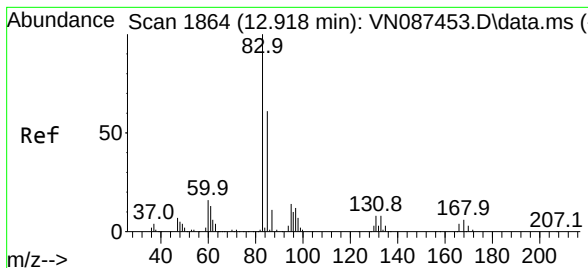
Tgt Ion:104 Resp: 2382097  
Ion Ratio Lower Upper  
104 100  
78 55.0 43.8 65.8  
103 55.6 43.1 64.7



#70  
Isopropylbenzene  
Concen: 151.792 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:105 Resp: 3492470  
Ion Ratio Lower Upper  
105 100  
120 25.3 17.5 32.5

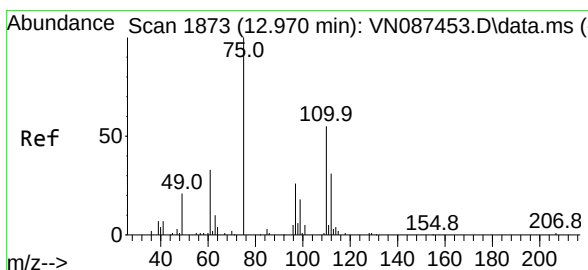
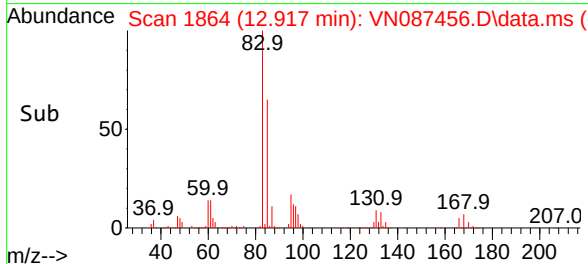
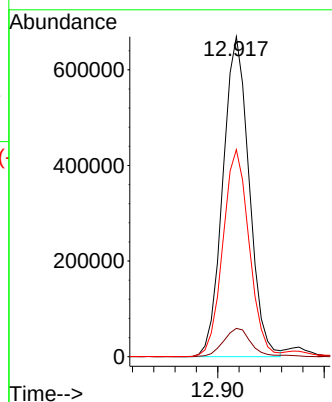
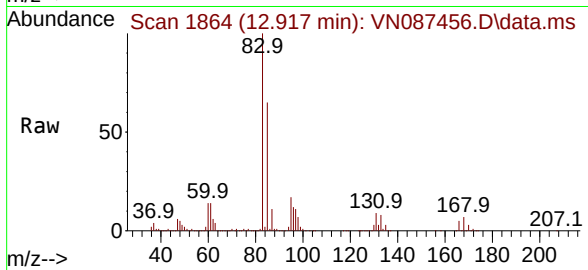




#71  
1,1,2,2-Tetrachloroethane  
Concen: 145.247 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

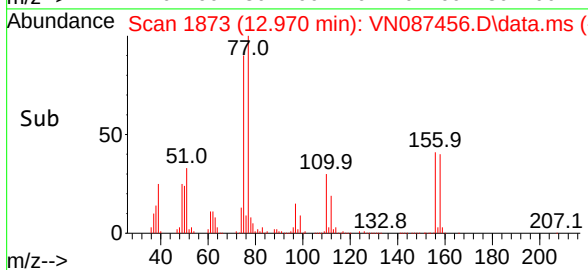
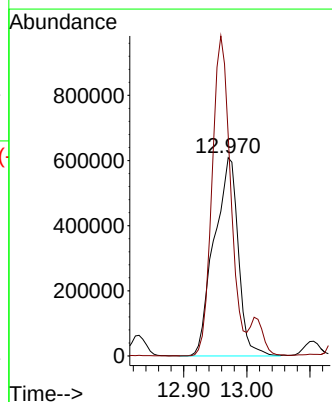
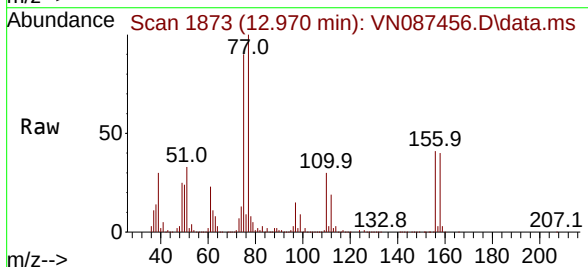
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

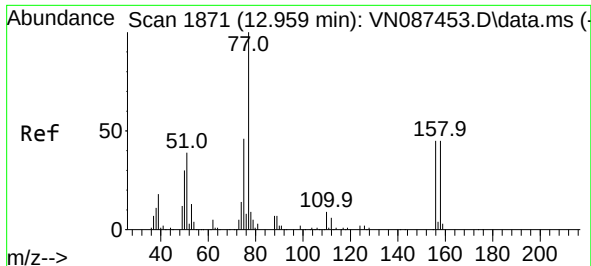
Tgt Ion: 83 Resp: 1145045  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 64.7 31.7 95.1



#72  
1,2,3-Trichloropropane  
Concen: 199.549 ug/l  
RT: 12.970 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 75 Resp: 1617046  
Ion Ratio Lower Upper  
75 100  
77 123.9 0.0 385.0

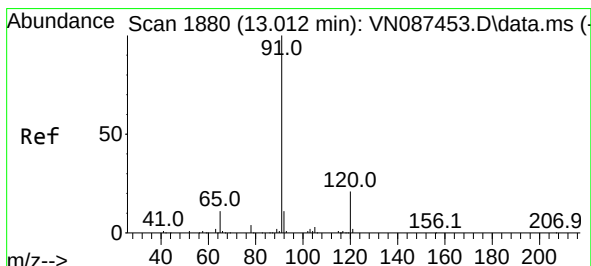
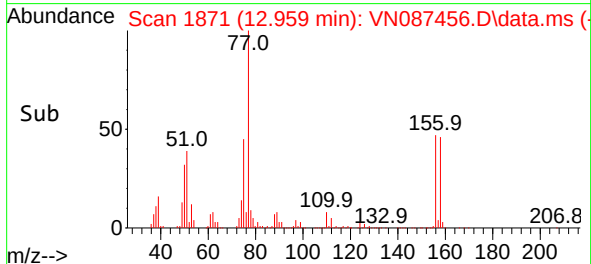
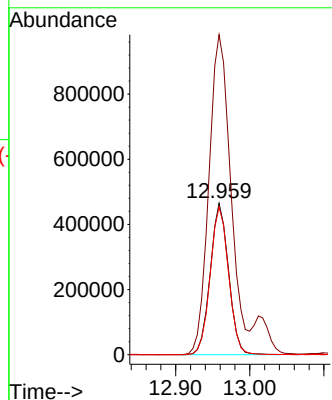
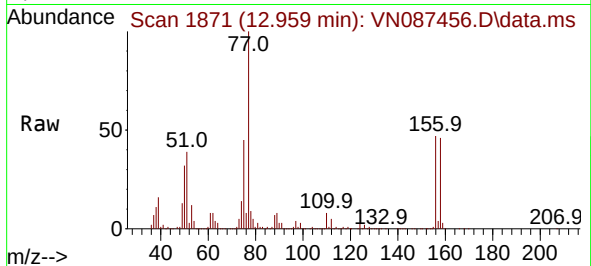




#73  
Bromobenzene  
Concen: 149.771 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

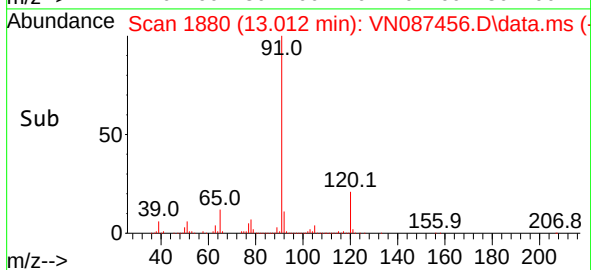
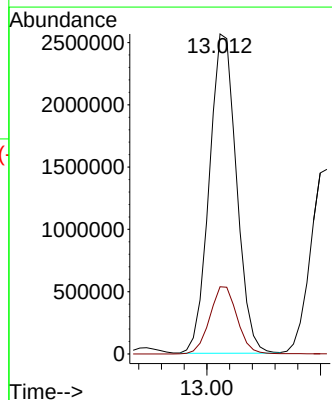
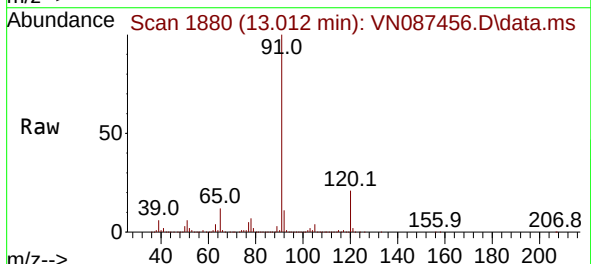
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

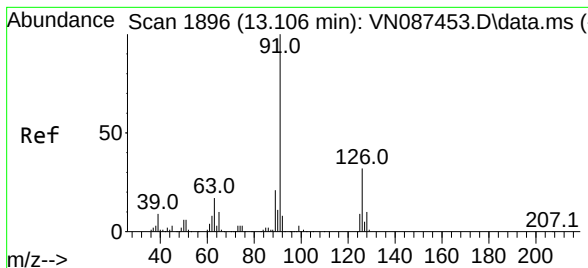
Tgt Ion:156 Resp: 798843  
Ion Ratio Lower Upper  
156 100  
77 250.8 0.0 506.6  
158 97.8 0.0 193.6



#74  
n-propylbenzene  
Concen: 148.316 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 4261831  
Ion Ratio Lower Upper  
91 100  
120 21.1 0.0 41.8

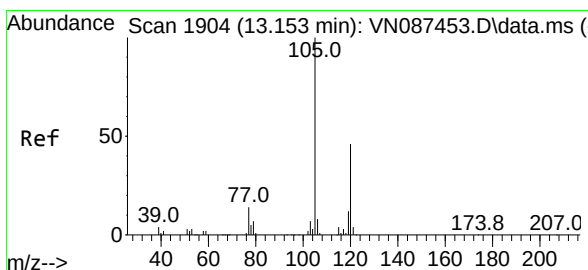
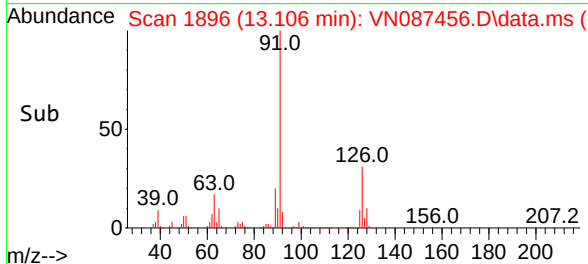
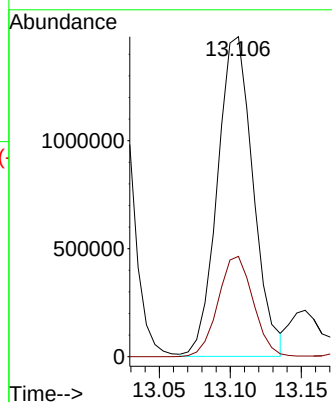
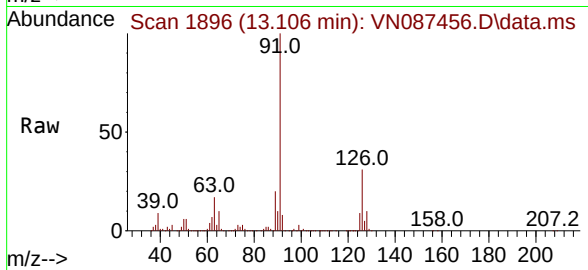




#75  
2-Chlorotoluene  
Concen: 146.890 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

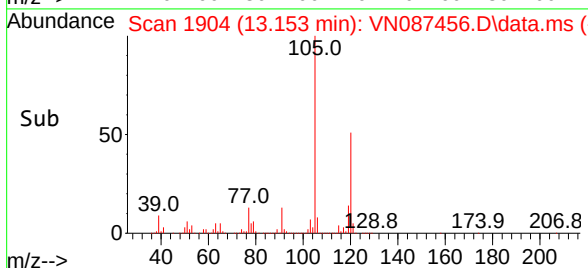
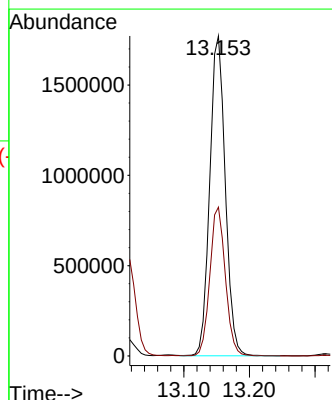
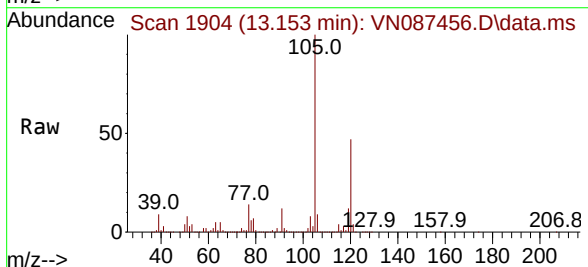
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

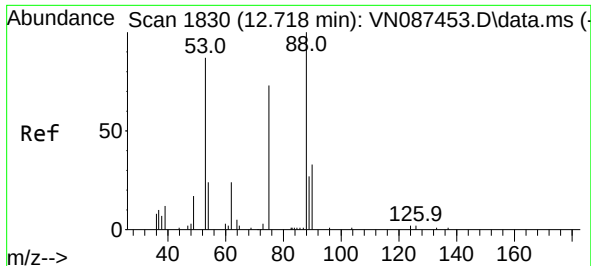
Tgt Ion: 91 Resp: 2596357  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 147.934 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 105 Resp: 2914301  
Ion Ratio Lower Upper  
105 100  
120 46.5 0.0 91.2

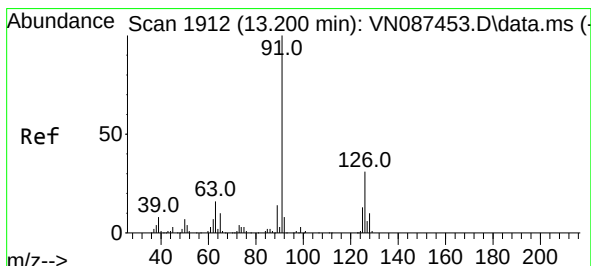
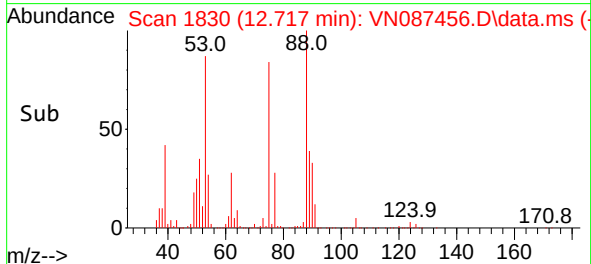
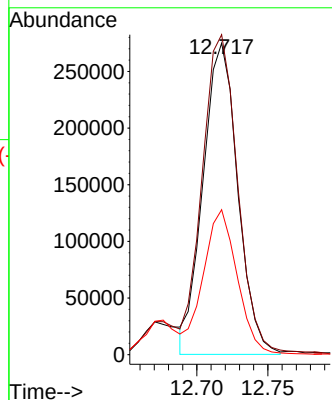
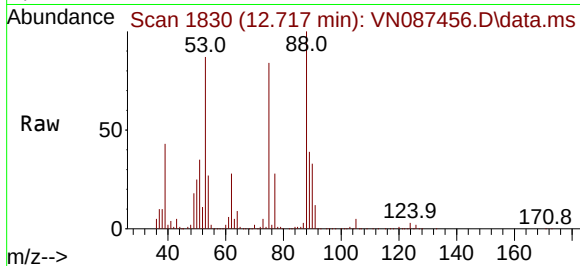




#77  
t-1,4-Dichloro-2-butene  
Concen: 167.752 ug/l  
RT: 12.717 min Scan# 1830  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

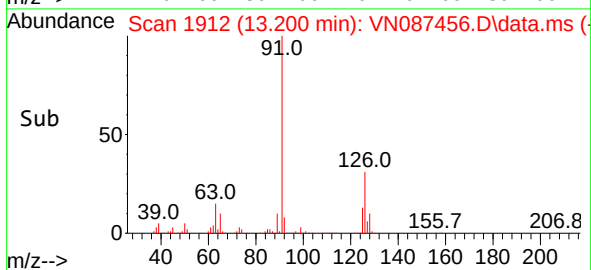
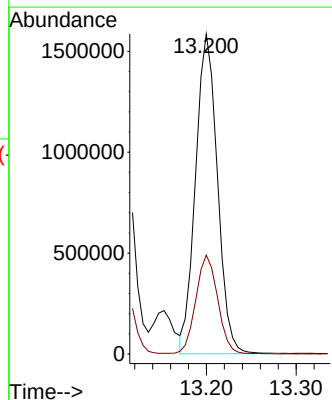
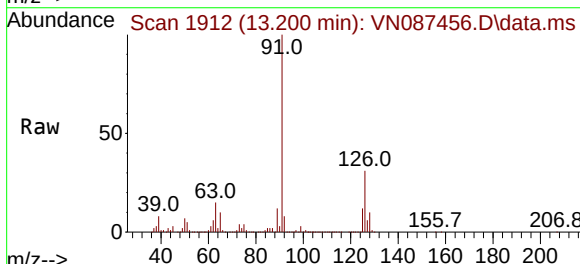
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

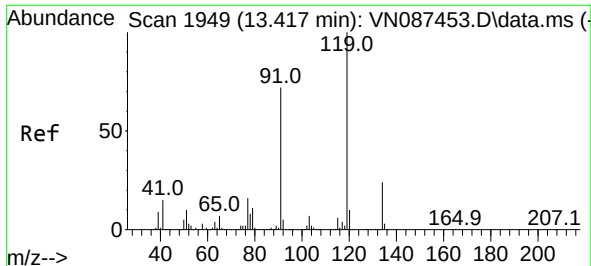
Tgt Ion: 75 Resp: 466370  
Ion Ratio Lower Upper  
75 100  
53 102.1 59.0 176.8  
89 46.4 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 149.787 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 2683008  
Ion Ratio Lower Upper  
91 100  
126 31.0 0.0 63.2

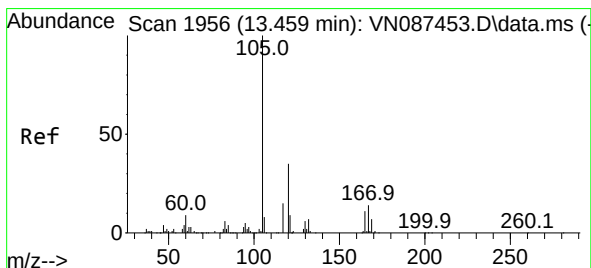
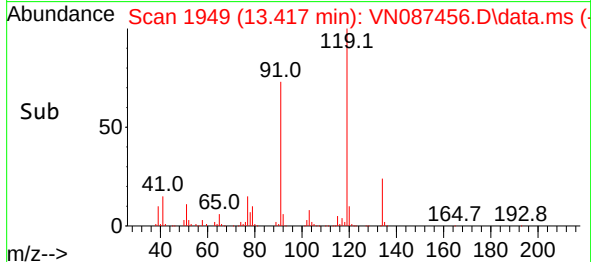
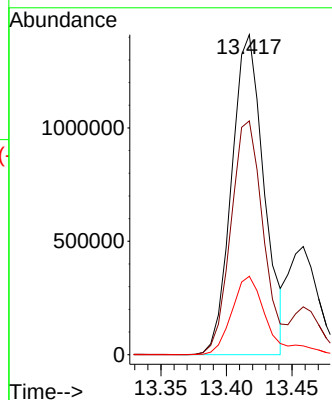
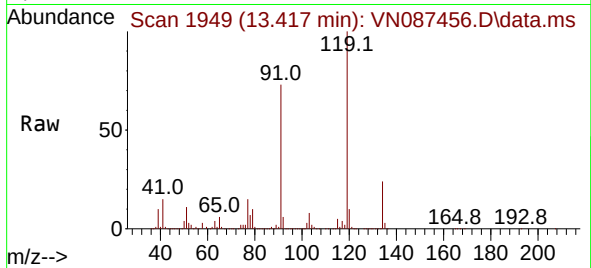




#79  
tert-butylbenzene  
Concen: 146.177 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

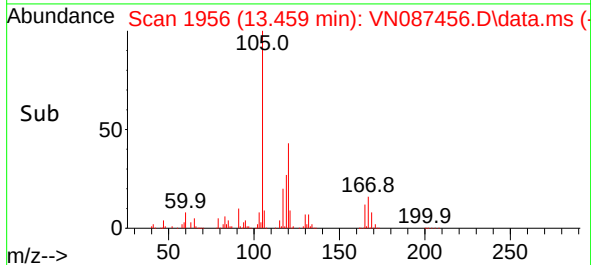
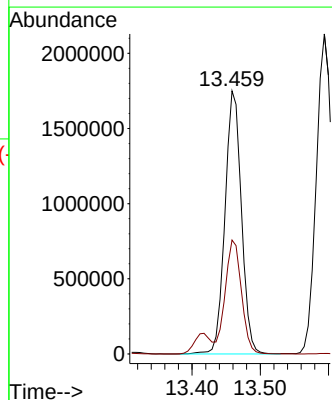
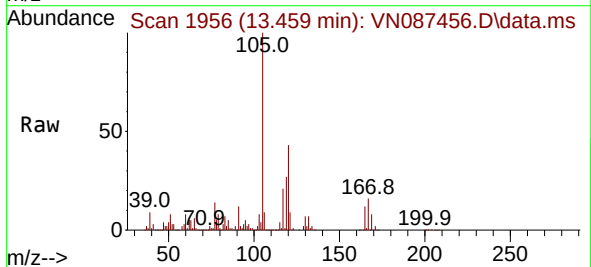
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

Tgt Ion:119 Resp: 2427930  
Ion Ratio Lower Upper  
119 100  
91 74.1 0.0 141.6  
134 24.6 0.0 45.6

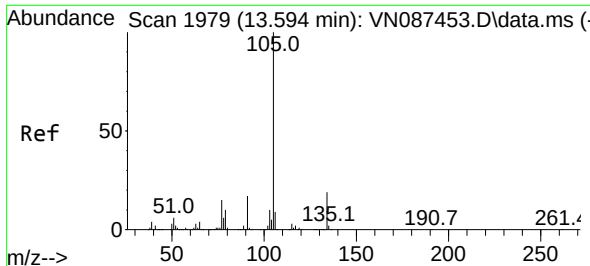


#80  
1,2,4-Trimethylbenzene  
Concen: 149.164 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion:105 Resp: 2936296  
Ion Ratio Lower Upper  
105 100  
120 43.2 0.0 87.2



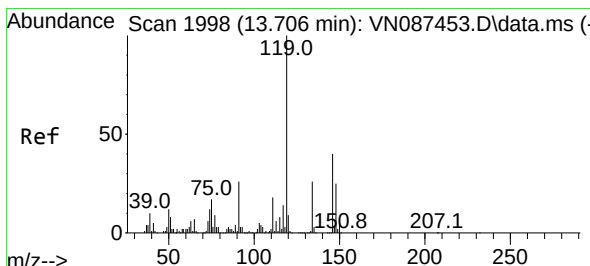
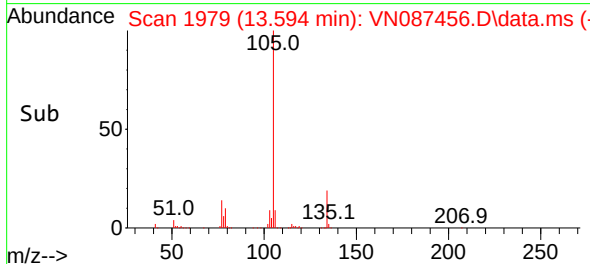
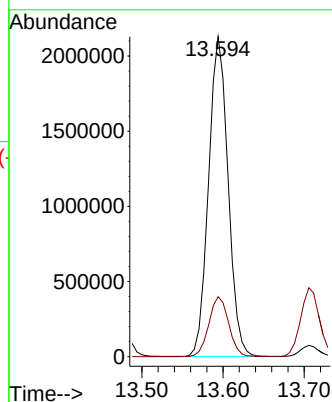
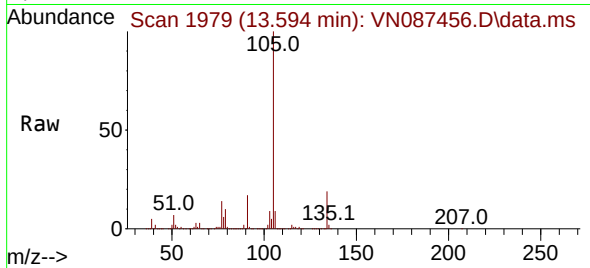




#81  
 sec-Butylbenzene  
 Concen: 146.583 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

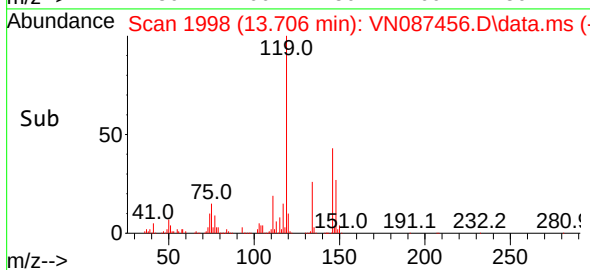
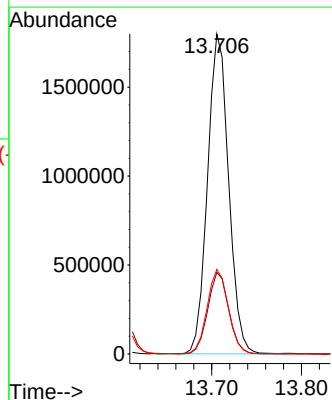
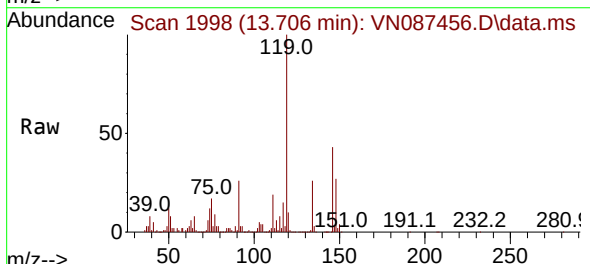
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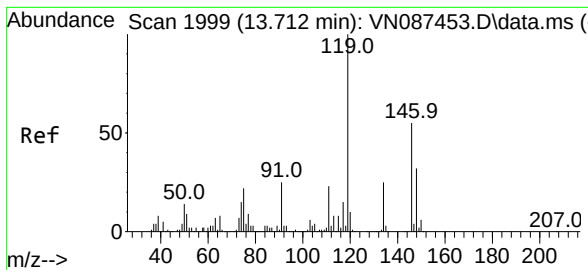
Tgt Ion:105 Resp: 3544404  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 146.146 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Tgt Ion:119 Resp: 2934141  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 0.0 51.4  
 91 26.4 0.0 52.0



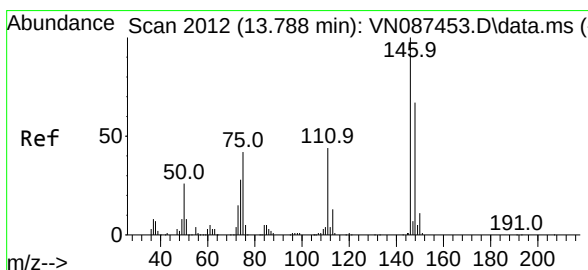
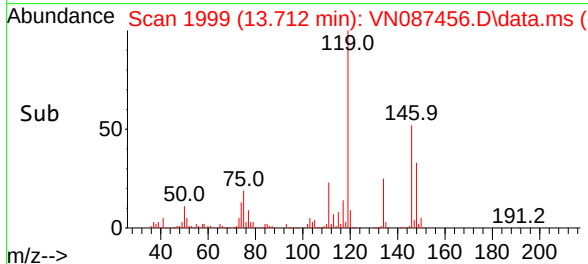
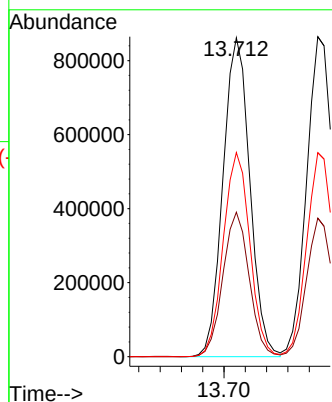
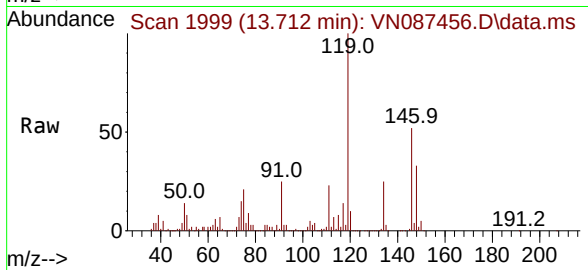


#83  
 1,3-Dichlorobenzene  
 Concen: 148.523 ug/l  
 RT: 13.712 min Scan# 1999  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

Tgt Ion:146 Resp: 1508514  

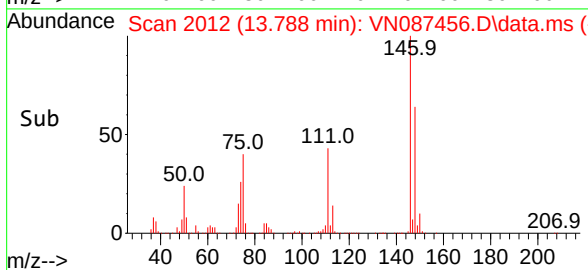
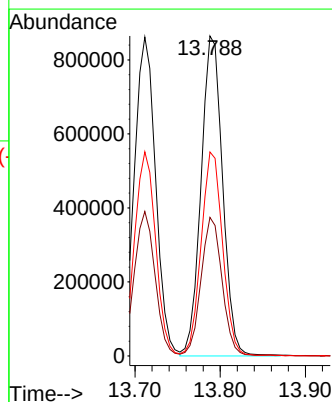
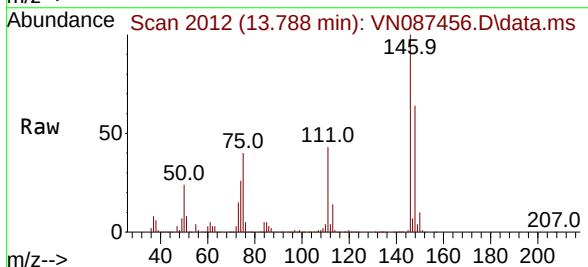
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 44.4  | 21.9  | 65.5  |
| 148 | 63.3  | 31.3  | 93.9  |

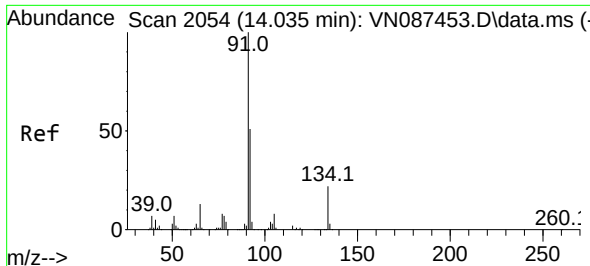


#84  
 1,4-Dichlorobenzene  
 Concen: 147.799 ug/l  
 RT: 13.788 min Scan# 2012  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Tgt Ion:146 Resp: 1521926  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 42.0  | 21.1  | 63.1  |
| 148 | 62.9  | 31.4  | 94.3  |

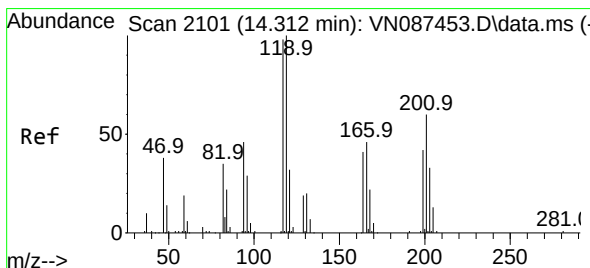
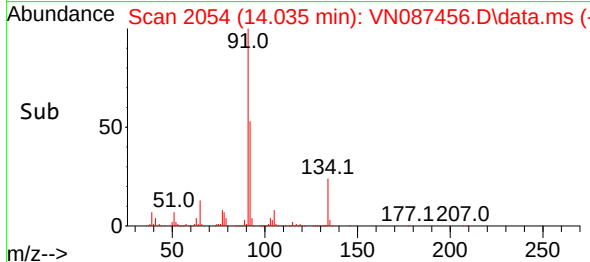
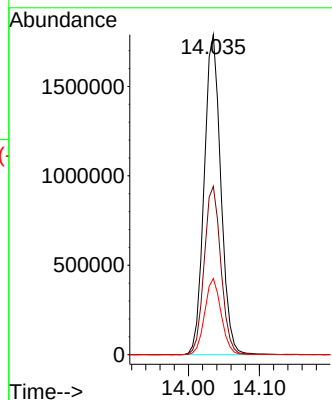
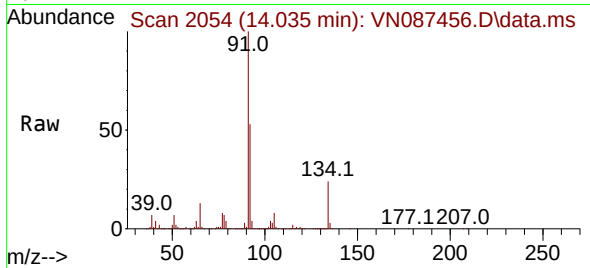




#85  
n-Butylbenzene  
Concen: 148.660 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

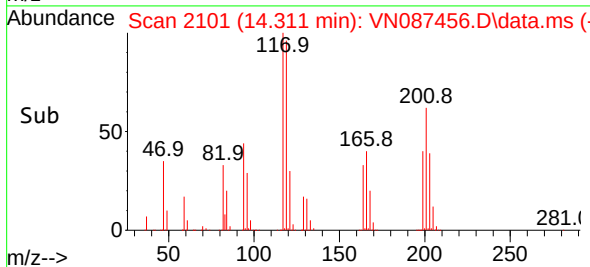
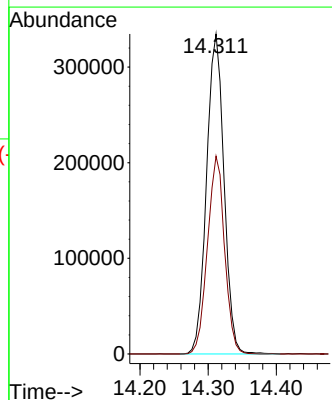
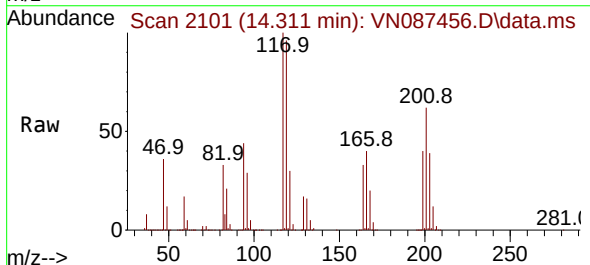
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

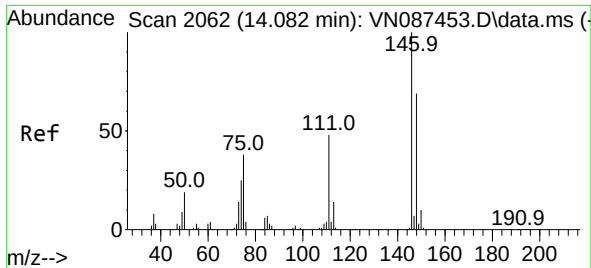
Tgt Ion: 91 Resp: 2920119  
Ion Ratio Lower Upper  
91 100  
92 52.9 0.0 106.6  
134 23.6 0.0 44.4



#86  
Hexachloroethane  
Concen: 151.982 ug/l  
RT: 14.311 min Scan# 2101  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 117 Resp: 595863  
Ion Ratio Lower Upper  
117 100  
201 60.6 29.1 87.4

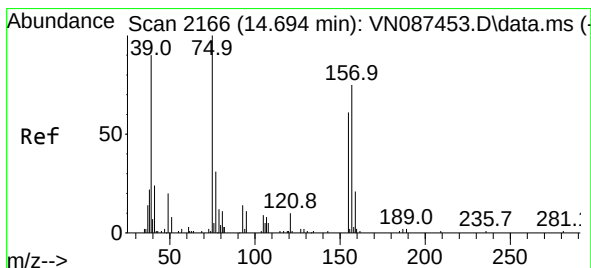
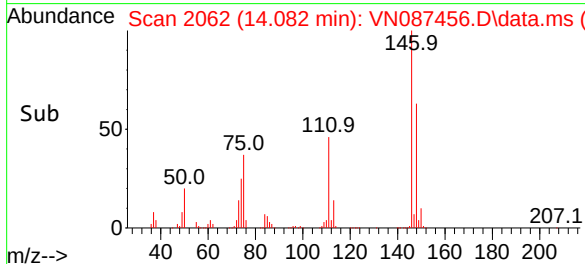
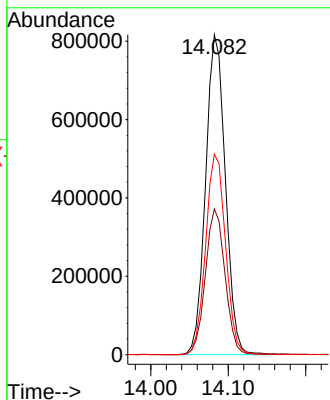
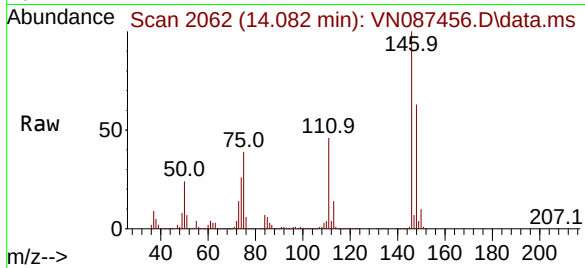




#87  
1,2-Dichlorobenzene  
Concen: 149.224 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. -0.000 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

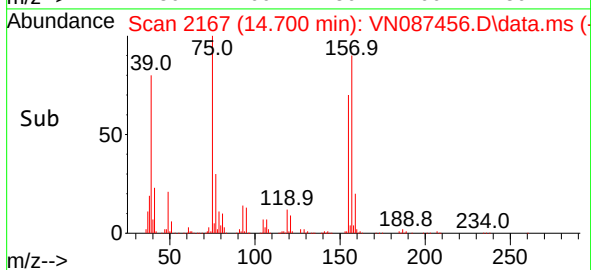
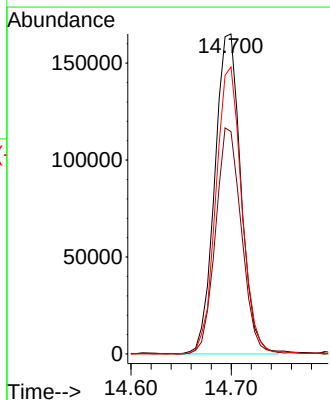
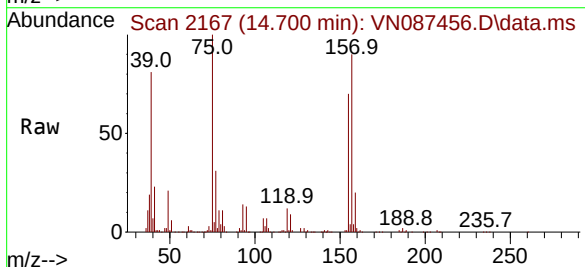
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC150

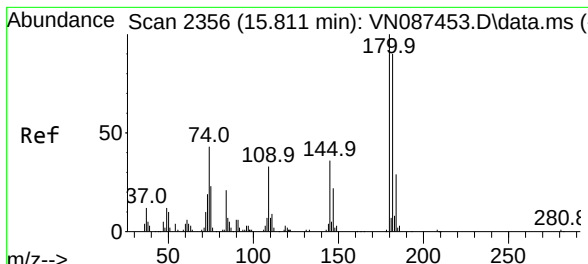
Tgt Ion:146 Resp: 1446749  
Ion Ratio Lower Upper  
146 100  
111 45.3 22.9 68.7  
148 63.3 31.6 94.7



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 149.861 ug/l  
RT: 14.700 min Scan# 2167  
Delta R.T. 0.006 min  
Lab File: VN087456.D  
Acq: 05 Aug 2025 15:01

Tgt Ion: 75 Resp: 299287  
Ion Ratio Lower Upper  
75 100  
155 69.9 55.7 83.5  
157 88.5 65.8 98.6

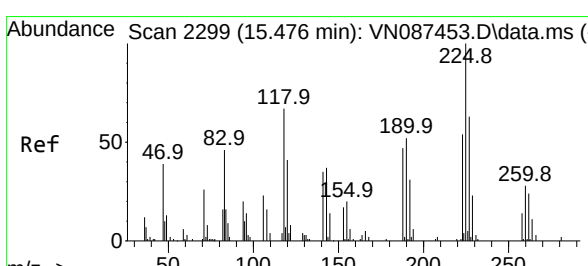
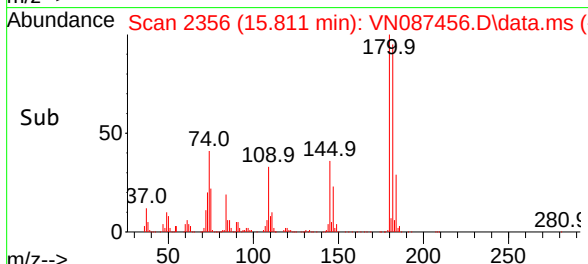
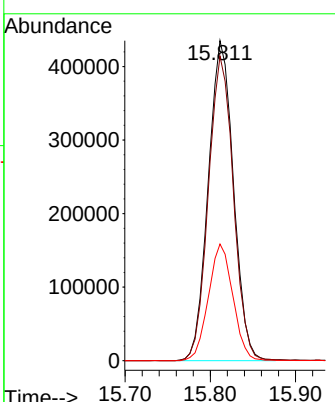
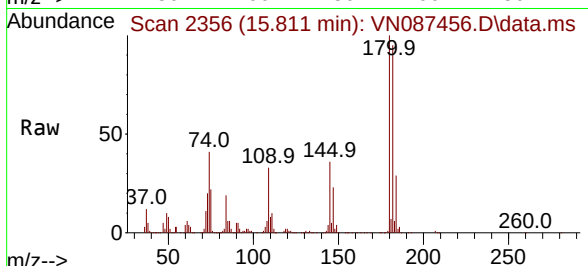




#89  
 1,2,4-Trichlorobenzene  
 Concen: 154.184 ug/l  
 RT: 15.811 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

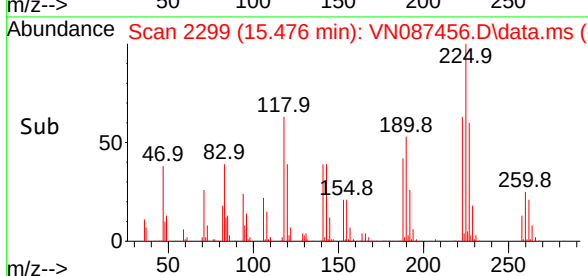
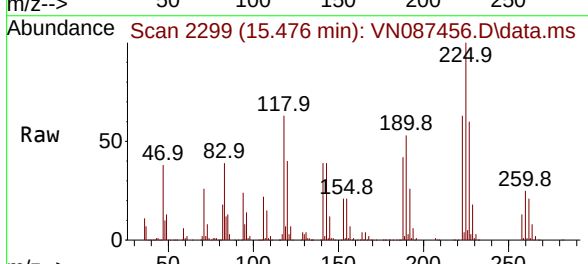
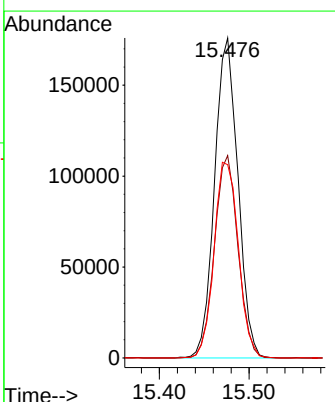
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

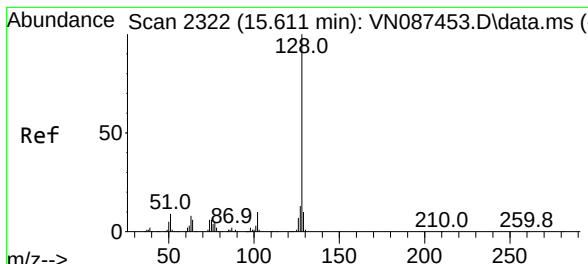
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 893366 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.5  | 75.0  | 112.4  |
| 145       | 35.4  | 28.6  | 43.0   |



#90  
 Hexachlorobutadiene  
 Concen: 141.046 ug/l  
 RT: 15.476 min Scan# 2299  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 317783 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.8  | 0.0   | 116.0  |
| 227       | 63.9  | 0.0   | 127.0  |



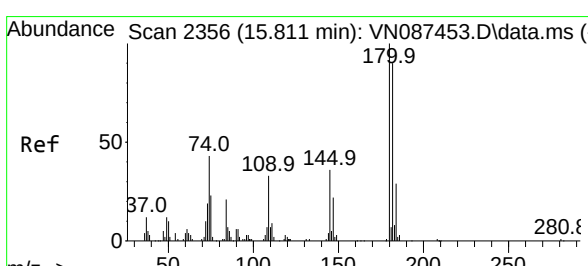
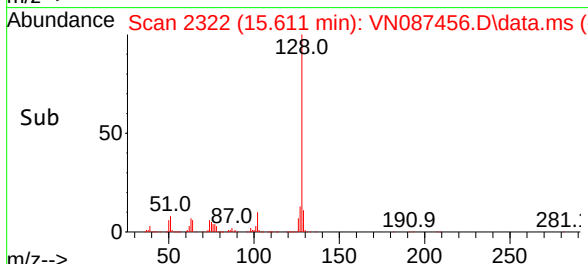
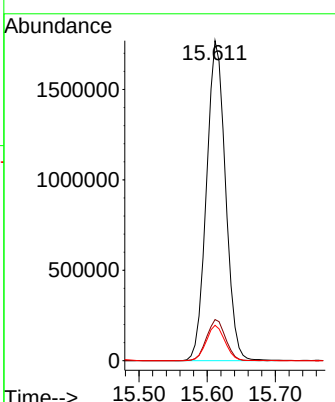
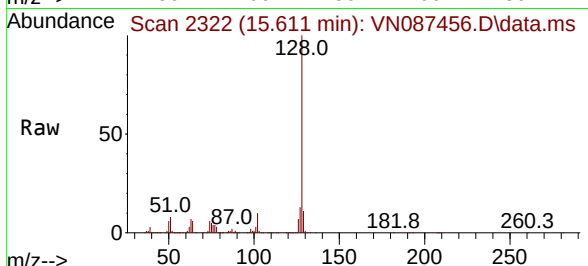


#91  
 Naphthalene  
 Concen: 155.335 ug/l  
 RT: 15.611 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

Tgt Ion:128 Resp: 3431814

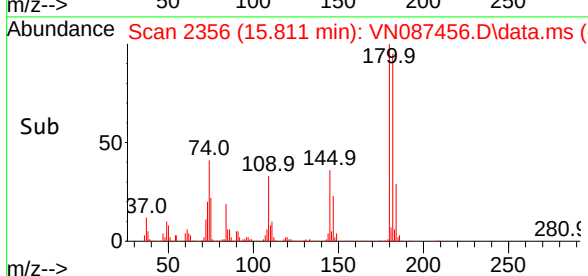
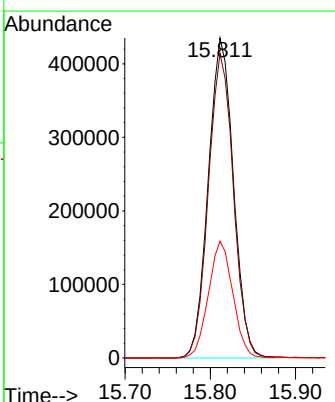
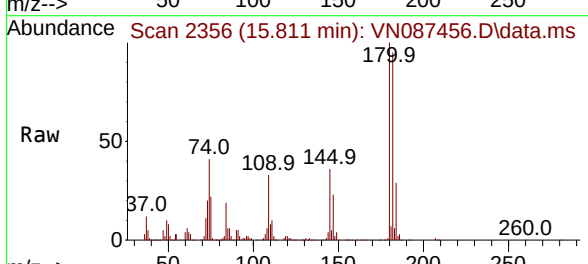
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.9  | 10.2  | 15.4  |
| 129 | 10.9  | 8.9   | 13.3  |



#92  
 1,2,3-Trichlorobenzene  
 Concen: 154.184 ug/l  
 RT: 15.811 min Scan# 2356  
 Delta R.T. -0.000 min  
 Lab File: VN087456.D  
 Acq: 05 Aug 2025 15:01

Tgt Ion:180 Resp: 893366

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.5  | 0.0   | 187.4 |
| 145 | 35.4  | 0.0   | 71.6  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 71823               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 404390              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 367577              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 202347              | 30.545  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 101.800% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 192410              | 30.417  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.400% |         |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 513267              | 30.347  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 101.167% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 87746               | 18.712  | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 85826               | 17.839  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.542          | 62   | 97923               | 19.190  | ug/l   | 92       |
| 5) Bromomethane              | 2.983          | 94   | 53929               | 19.525  | ug/l   | 85       |
| 6) Chloroethane              | 3.142          | 64   | 59300               | 18.022  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 133795              | 18.219  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.959          | 74   | 56065               | 18.325  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 68759               | 18.360  | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 71378               | 18.145  | ug/l   | 90       |
| 11) Methyl Iodide            | 4.583          | 142  | 48013               | 15.501  | ug/l   | 96       |
| 12) Methyl Acetate           | 5.018          | 43   | 133791              | 18.431  | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 114938              | 103.668 | ug/l   | 98       |
| 14) Acrylonitrile            | 5.712          | 53   | 287956              | 90.843  | ug/l   | 98       |
| 15) Acetone                  | 4.424          | 58   | 88879               | 98.134  | ug/l   | 96       |
| 16) Carbon Disulfide         | 4.706          | 76   | 219977              | 18.028  | ug/l   | 99       |
| 17) Allyl chloride           | 5.018          | 41   | 149799              | 18.683  | ug/l   | 88       |
| 18) Methylene Chloride       | 5.265          | 84   | 93115               | 18.387  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 5.765          | 96   | 83760               | 17.906  | ug/l   | 96       |
| 20) Diisopropyl ether        | 6.659          | 45   | 327254              | 17.917  | ug/l   | 99       |
| 21) 1,1-Dichloroethane       | 6.559          | 63   | 171210              | 18.134  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 103737              | 18.023  | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 128000              | 95.030  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 324724              | 18.116  | ug/l   | 98       |
| 25) Chloroform               | 7.953          | 83   | 177598              | 18.021  | ug/l   | 94       |
| 26) Cyclohexane              | 8.241          | 56   | 135890              | 17.977  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 117565              | 17.825  | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 435716              | 89.621  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 158483              | 18.630  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 151313              | 17.988  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 124231              | 17.777  | ug/l   | 93       |
| 34) Benzene                  | 8.588          | 78   | 376019              | 18.060  | ug/l   | 95       |
| 35) Methacrylonitrile        | 7.765          | 41   | 95290               | 18.163  | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 150784              | 17.918  | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 82742               | 18.041  | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.582          | 83   | 136830              | 17.882  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 94981               | 17.793  | ug/l   | 96       |
| 40) Dibromomethane           | 9.688          | 93   | 69241               | 17.288  | ug/l   | 93       |
| 41) Bromodichloromethane     | 9.871          | 83   | 146339              | 17.583  | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.589          | 43   | 1423556             | 88.913  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080525\  
 Data File : VN087458.D  
 Acq On : 05 Aug 2025 15:43  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

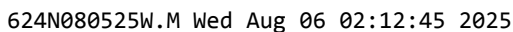
Quant Time: Aug 06 02:12:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

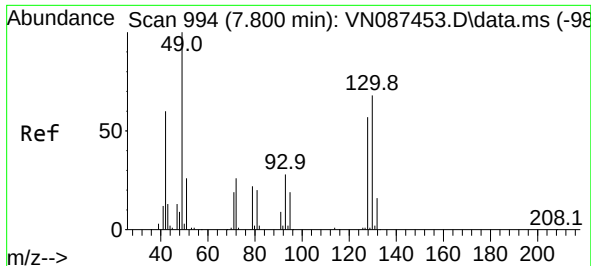
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 171684   | 18.279  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 278498   | 17.492  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.677  | 88   | 38322    | 377.572 | ug/l   | 98       |
| 46) Methyl methacrylate       | 9.665  | 41   | 127548   | 16.972  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.523 | 43   | 28620    | 3.254   | ug/l # | 66       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 157686   | 17.415  | ug/l   | 96       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 162308   | 17.812  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 90030    | 17.791  | ug/l   | 93       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 153822   | 17.260  | ug/l   | 95       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 161040   | 17.664  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.335 | 129  | 101996   | 17.453  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 93933    | 17.486  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 443163   | 94.458  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 65682    | 16.992  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 848509   | 89.734  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.182 | 43   | 570046   | 88.726  | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 64788    | 18.092  | ug/l   | 96       |
| 62) Toluene                   | 10.612 | 91   | 405628   | 17.879  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 248284   | 17.811  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 85480    | 17.440  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 452435   | 17.892  | ug/l   | 100      |
| 67) m/p-Xylenes               | 12.053 | 106  | 323616   | 34.866  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 159060   | 17.419  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 269120   | 17.260  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.676 | 105  | 412806   | 17.794  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 140546   | 17.682  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 192129   | 25.946  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 91029    | 16.926  | ug/l   | 96       |
| 74) n-propylbenzene           | 13.012 | 91   | 521263   | 17.991  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 315743   | 17.717  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 356748   | 17.960  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.723 | 75   | 47247    | 16.855  | ug/l   | 90       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 327647   | 18.142  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 299129   | 17.861  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 358425   | 18.058  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 447713   | 18.364  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 367898   | 18.174  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 187078   | 18.268  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 188698   | 18.174  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 370033   | 18.683  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 69621    | 17.612  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 178646   | 18.275  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 35995    | 17.876  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 107490   | 18.399  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 42365    | 18.649  | ug/l   | 95       |
| 91) Naphthalene               | 15.611 | 128  | 404839   | 18.174  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 107490   | 18.399  | ug/l   | 99       |

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



Quant Time: Aug 06 02:12:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

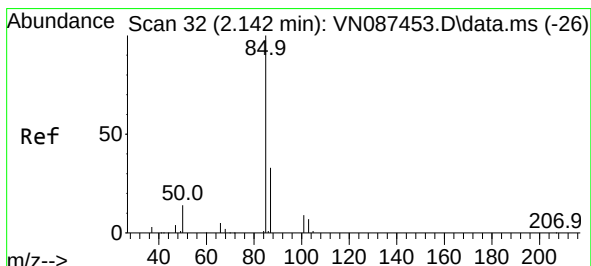
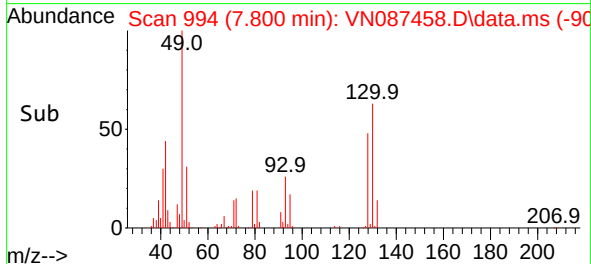
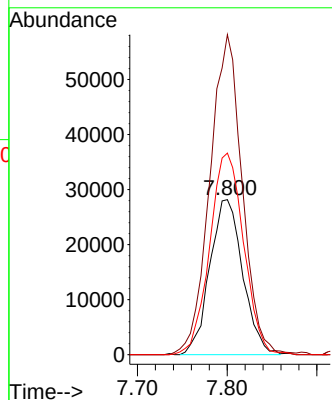
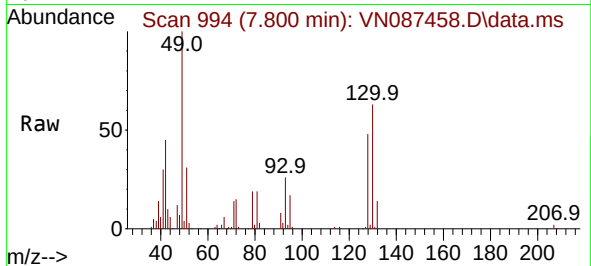




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

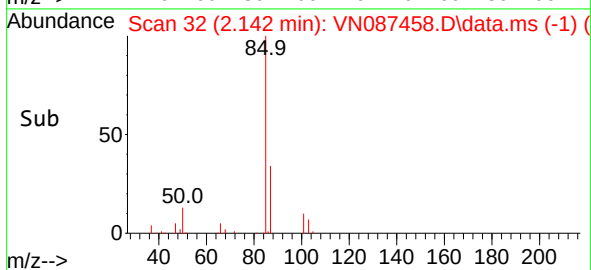
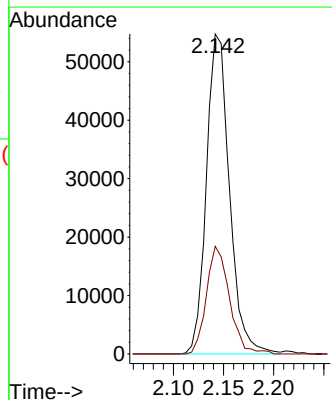
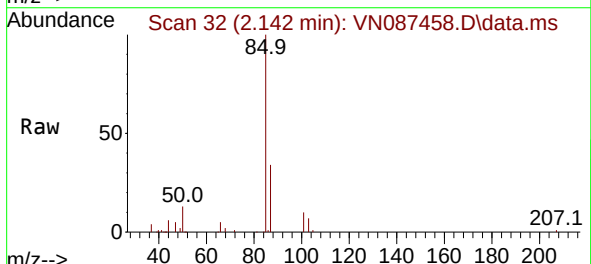
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

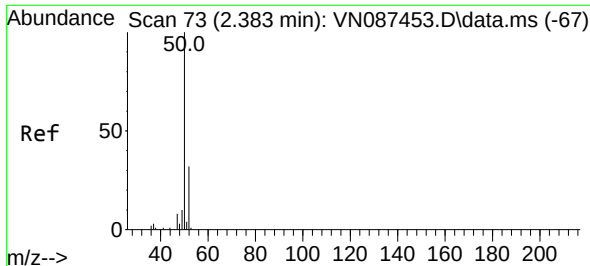
Tgt Ion:128 Resp: 71823  
Ion Ratio Lower Upper  
128 100  
49 202.5 0.0 494.8  
130 134.5 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 18.712 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 85 Resp: 87746  
Ion Ratio Lower Upper  
85 100  
87 33.7 16.4 49.2

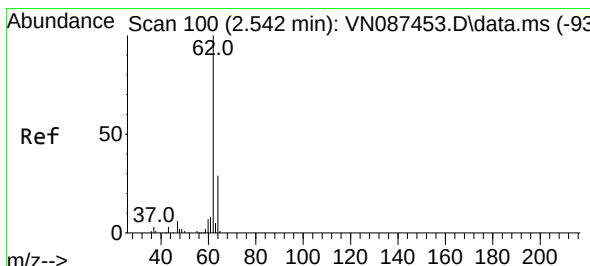
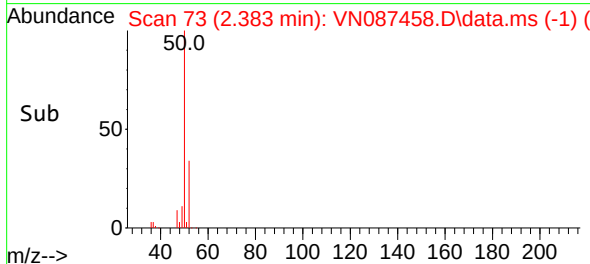
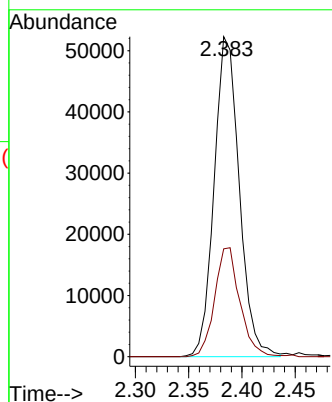
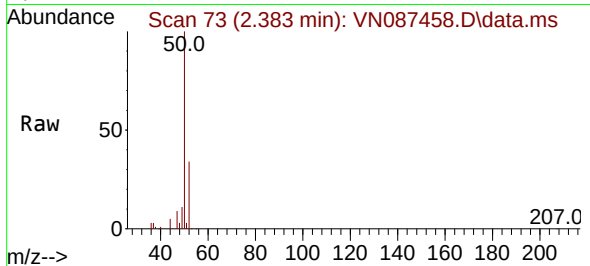




#3  
Chloromethane  
Concen: 17.839 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

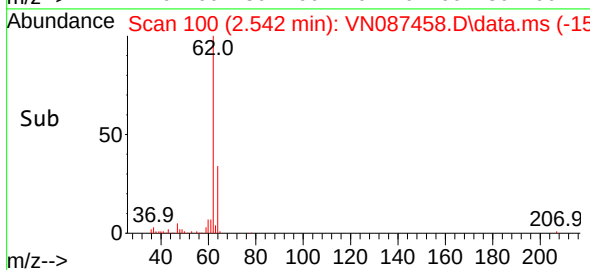
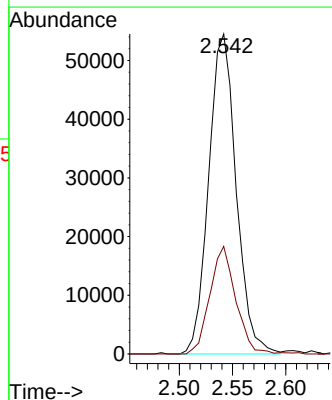
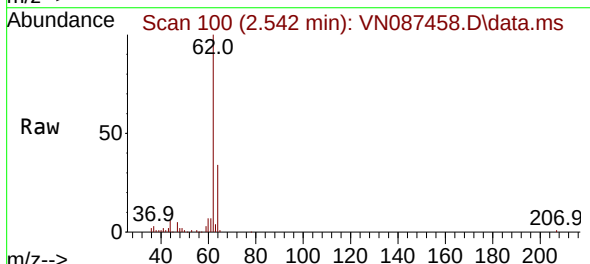
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

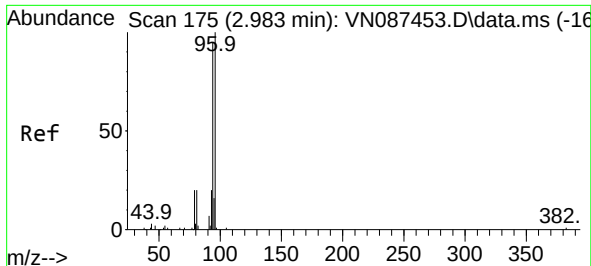
Tgt Ion: 50 Resp: 85826  
Ion Ratio Lower Upper  
50 100  
52 33.7 25.8 38.6



#4  
Vinyl Chloride  
Concen: 19.190 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 62 Resp: 97923  
Ion Ratio Lower Upper  
62 100  
64 33.6 23.4 35.2

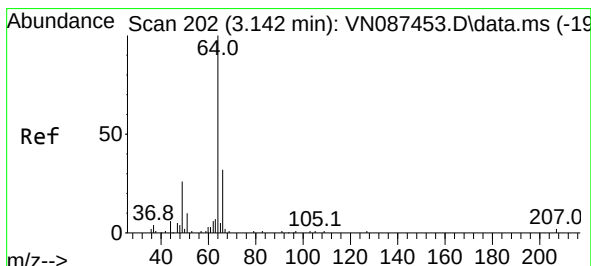
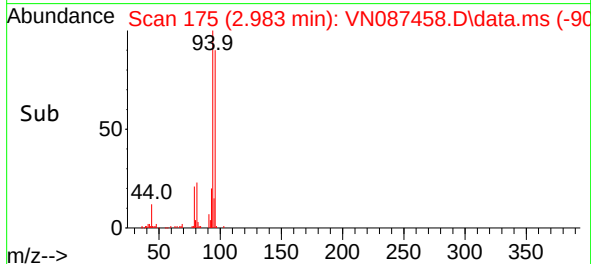
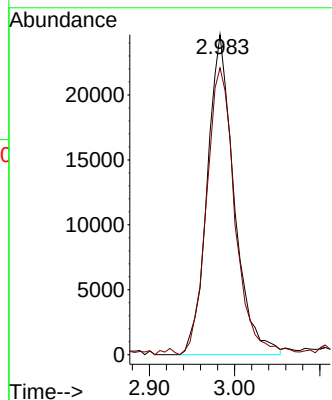
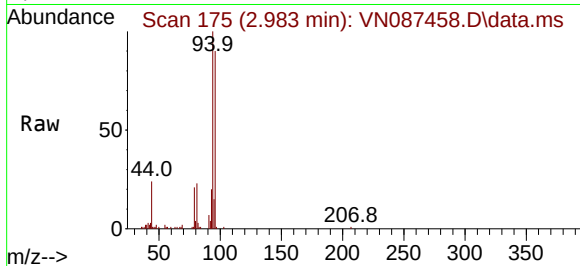




#5  
Bromomethane  
Concen: 19.525 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

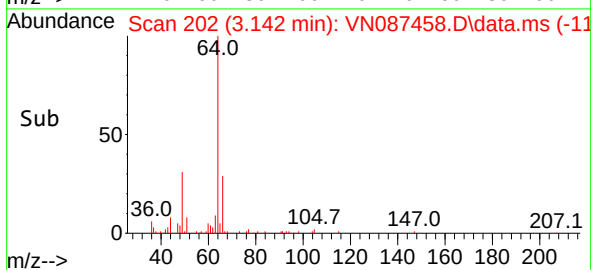
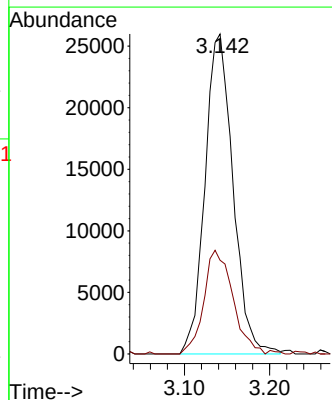
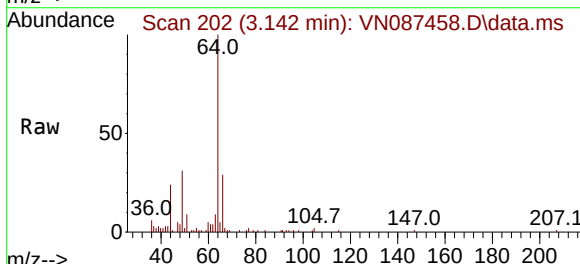
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

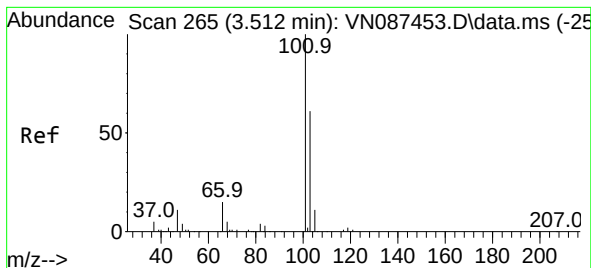
Tgt Ion: 94 Resp: 53929  
Ion Ratio Lower Upper  
94 100  
96 89.6 84.2 126.4



#6  
Chloroethane  
Concen: 18.022 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 64 Resp: 59300  
Ion Ratio Lower Upper  
64 100  
66 29.5 25.4 38.0





#7

Trichlorofluoromethane

Concen: 18.219 ug/l

RT: 3.506 min Scan# 2

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

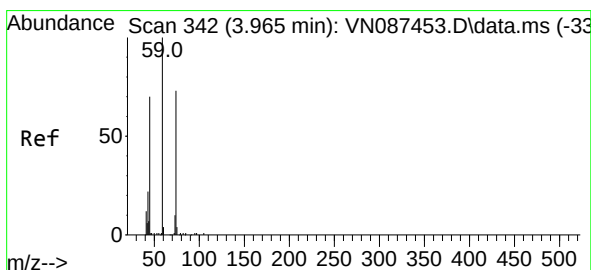
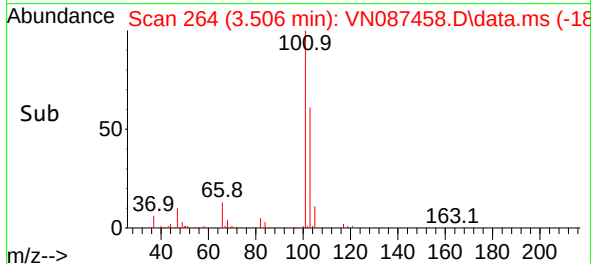
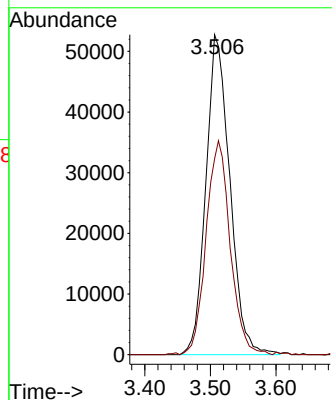
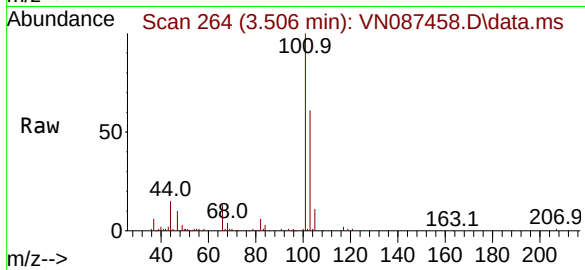
ICVVN080525

Tgt Ion:101 Resp: 133795

Ion Ratio Lower Upper

101 100

103 61.2 49.2 73.8



#8

Diethyl Ether

Concen: 18.325 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.006 min

Lab File: VN087458.D

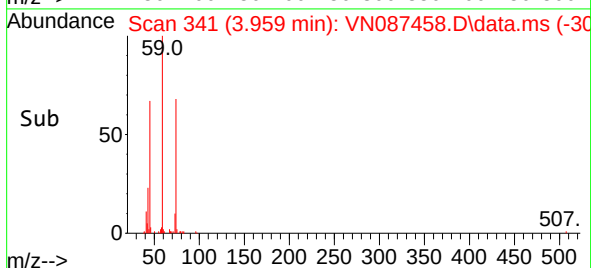
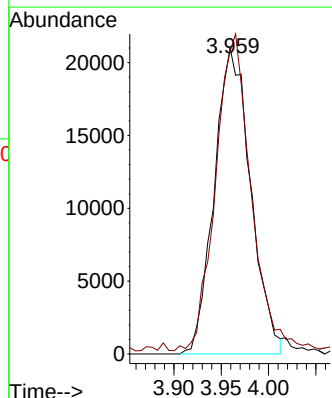
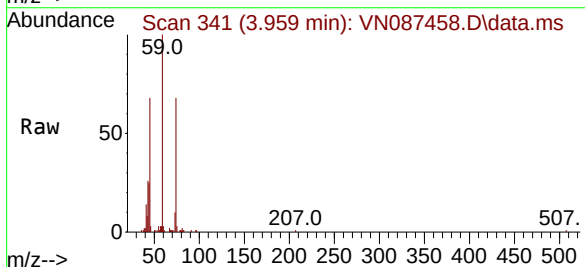
Acq: 05 Aug 2025 15:43

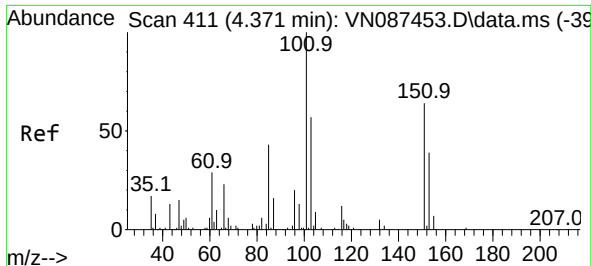
Tgt Ion: 74 Resp: 56065

Ion Ratio Lower Upper

74 100

45 100.5 20.1 180.9

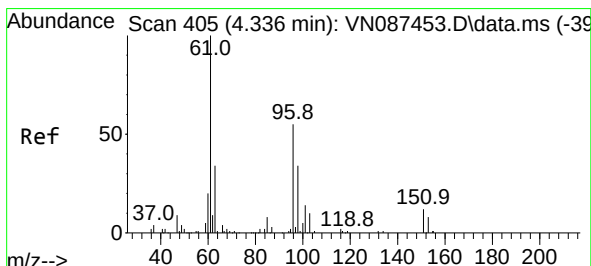
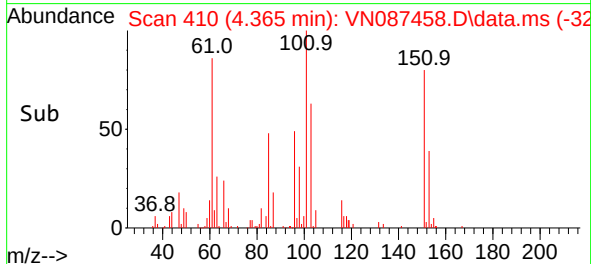
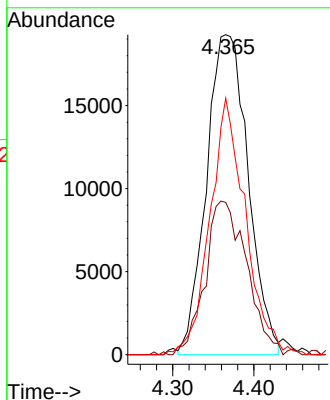
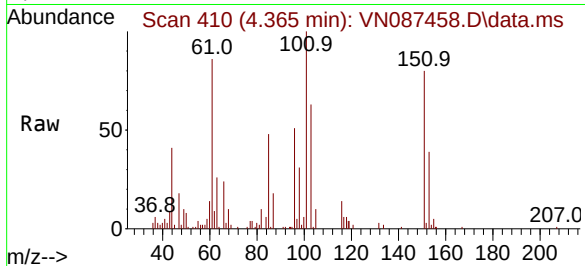




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 18.360 ug/l  
 RT: 4.365 min Scan# 411  
 Delta R.T. -0.006 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

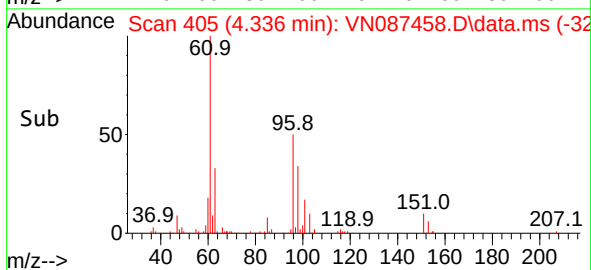
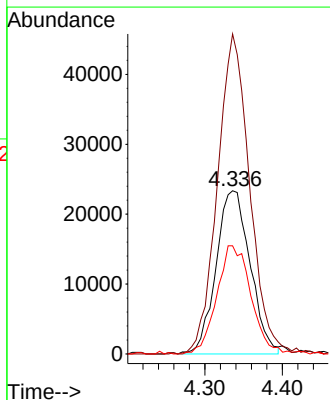
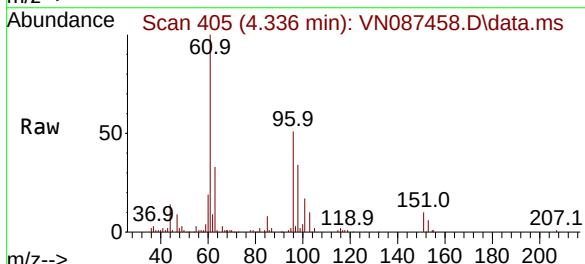
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 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

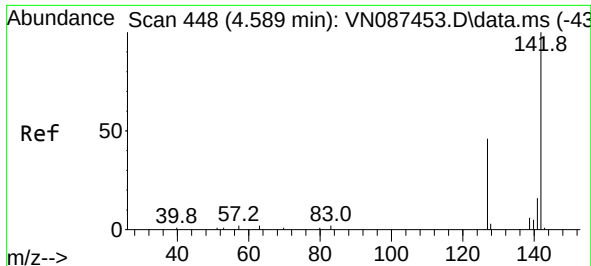
Tgt Ion:101 Resp: 68759  
 Ion Ratio Lower Upper  
 101 100  
 85 47.8 0.0 57.0  
 151 68.0 0.0 134.2



#10  
 1,1-Dichloroethene  
 Concen: 18.145 ug/l  
 RT: 4.336 min Scan# 405  
 Delta R.T. 0.000 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

Tgt Ion: 96 Resp: 71378  
 Ion Ratio Lower Upper  
 96 100  
 61 196.0 144.2 216.4  
 98 66.3 49.7 74.5

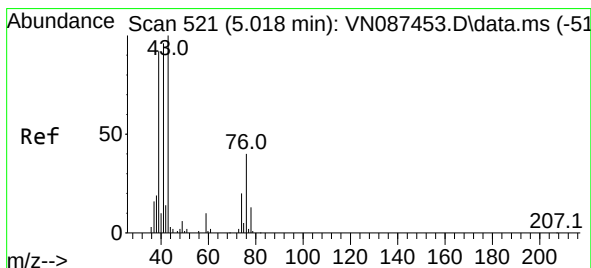
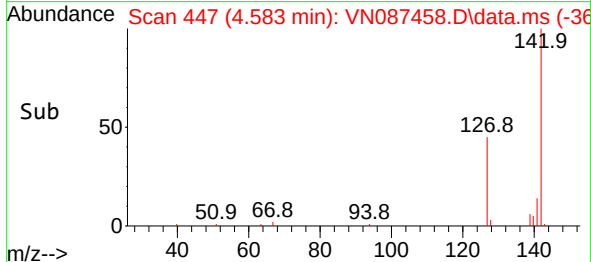
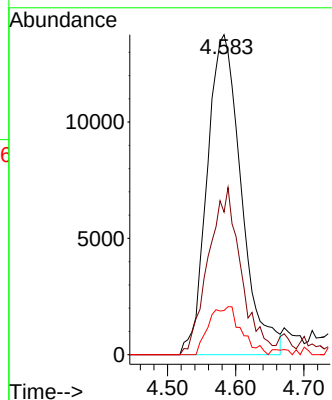
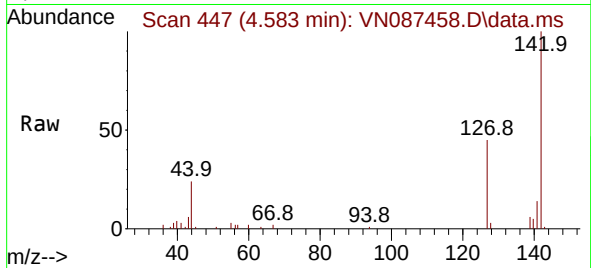




#11  
Methyl Iodide  
Concen: 15.501 ug/l  
RT: 4.583 min Scan# 448  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

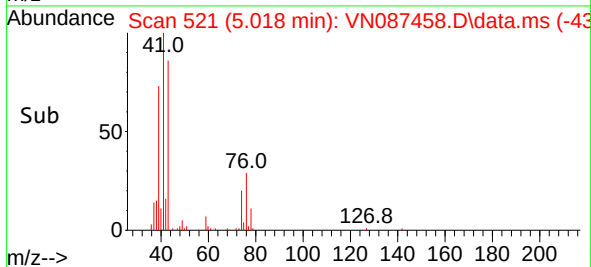
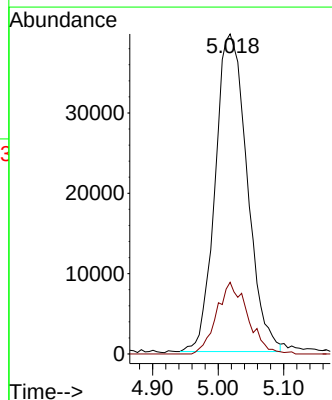
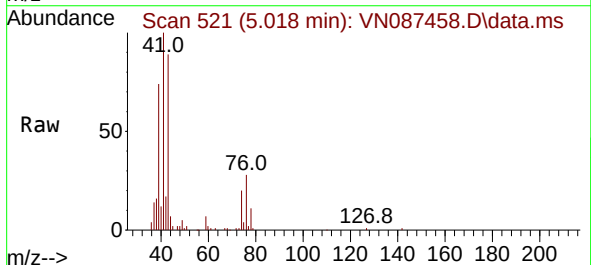
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MSVOA\_N  
ClientSampleId :  
ICVVN080525

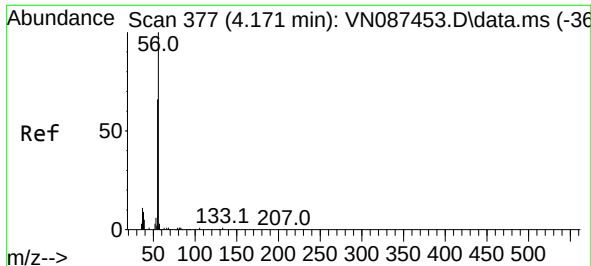
Tgt Ion:142 Resp: 48013  
Ion Ratio Lower Upper  
142 100  
127 43.1 22.9 68.7  
141 13.5 7.7 23.1



#12  
Methyl Acetate  
Concen: 18.431 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 133791  
Ion Ratio Lower Upper  
43 100  
74 22.5 16.0 24.0





#13

Acrolein

Concen: 103.668 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

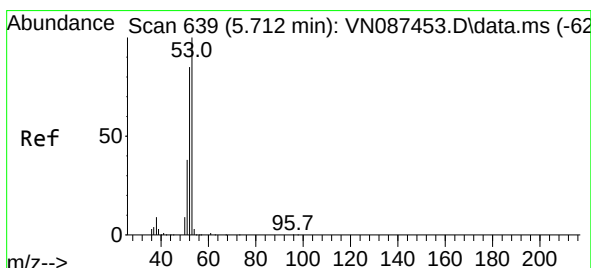
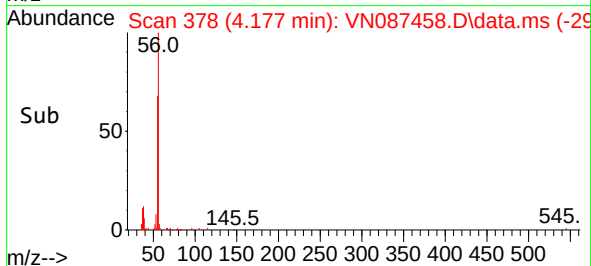
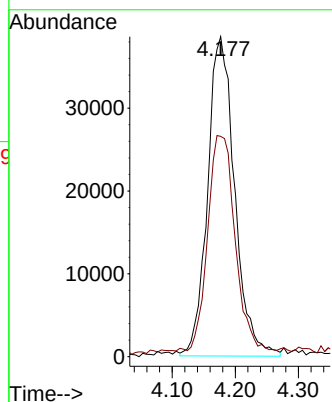
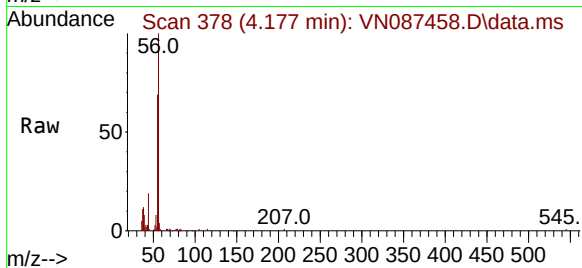
ICVVN080525

Tgt Ion: 56 Resp: 114938

Ion Ratio Lower Upper

56 100

55 70.2 57.4 86.0



#14

Acrylonitrile

Concen: 90.843 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

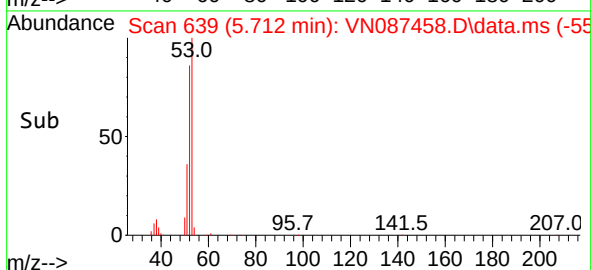
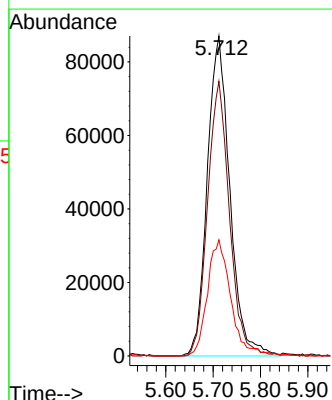
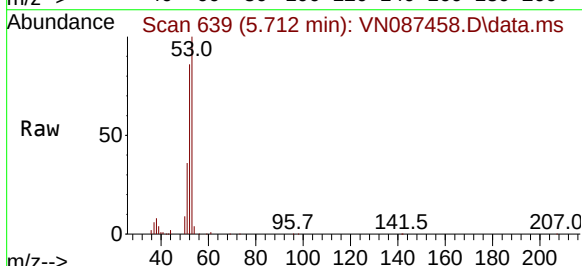
Tgt Ion: 53 Resp: 287956

Ion Ratio Lower Upper

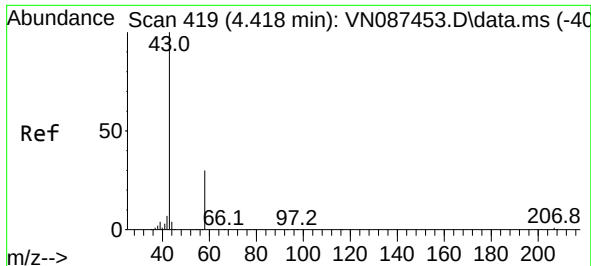
53 100

52 82.7 42.4 127.2

51 36.7 18.5 55.5



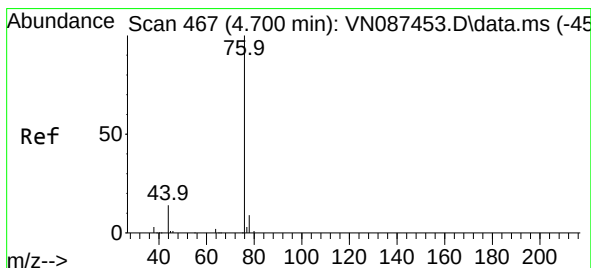
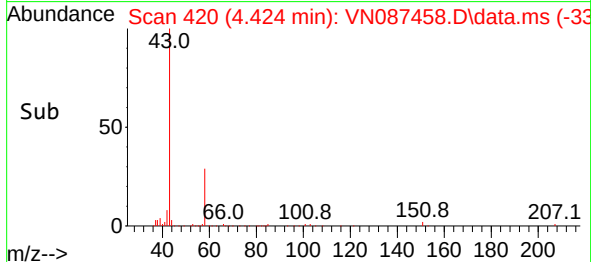
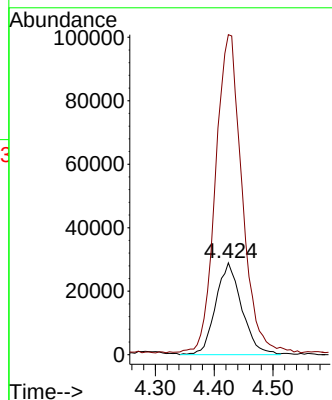
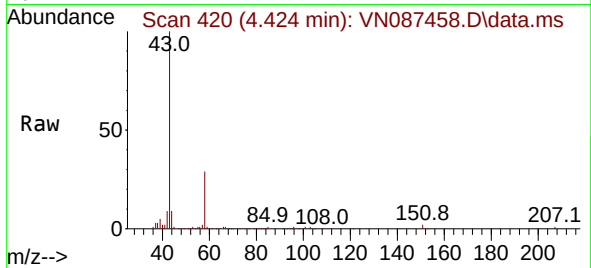




#15  
Acetone  
Concen: 98.134 ug/l  
RT: 4.424 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

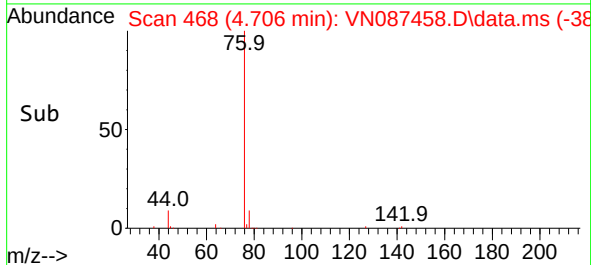
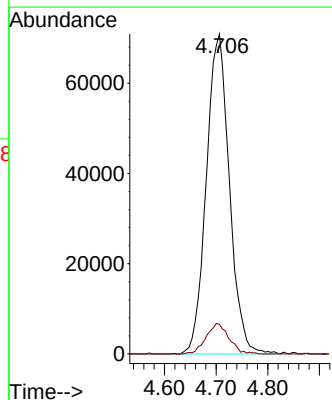
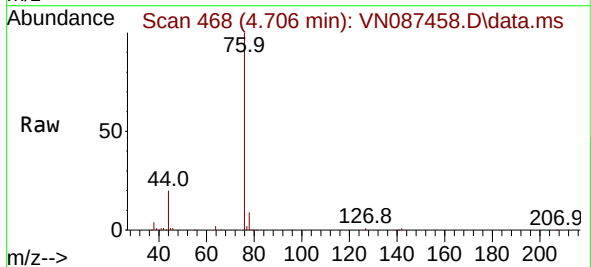
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MSVOA\_N  
ClientSampleId :  
ICVVN080525

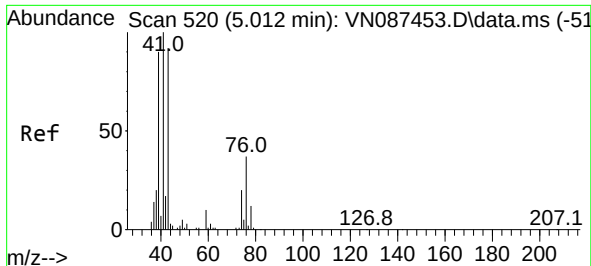
Tgt Ion: 58 Resp: 88879  
Ion Ratio Lower Upper  
58 100  
43 345.4 268.9 403.3



#16  
Carbon Disulfide  
Concen: 18.028 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 219977  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7

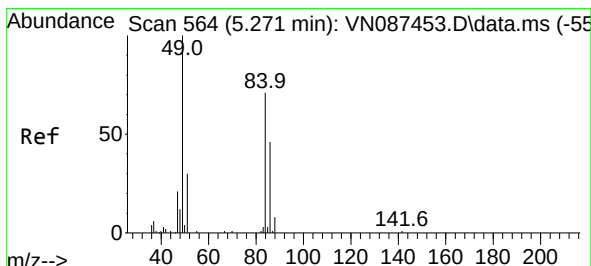
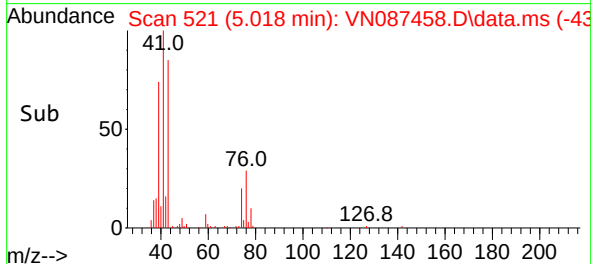
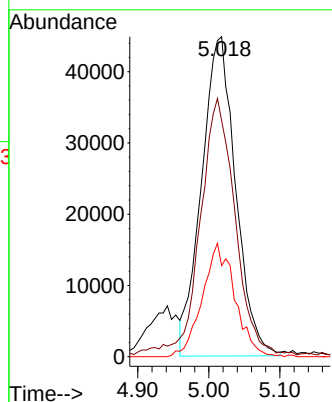
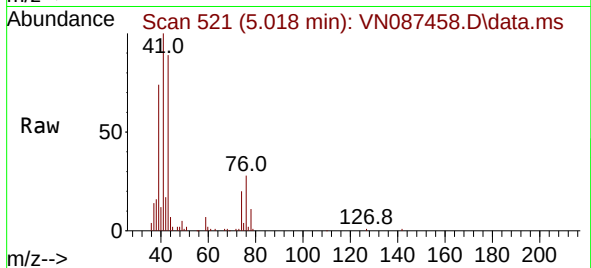




#17  
Allyl chloride  
Concen: 18.683 ug/l  
RT: 5.018 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

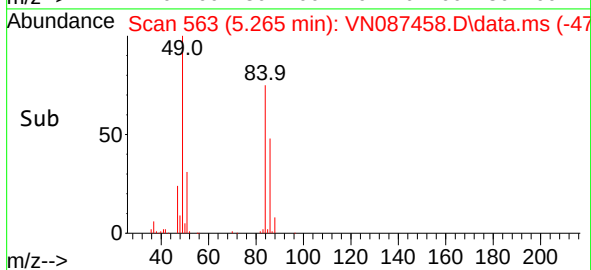
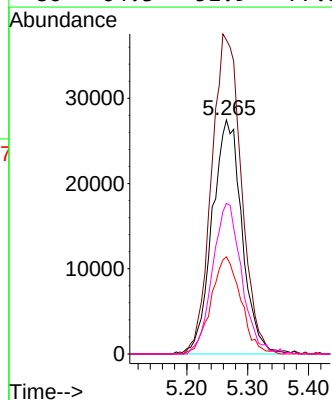
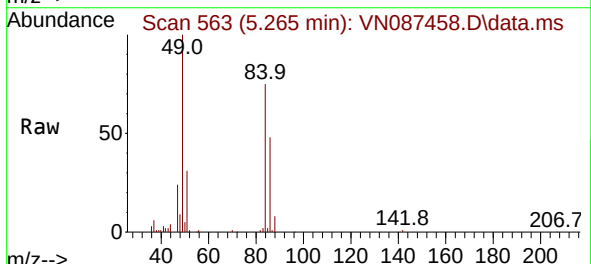
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

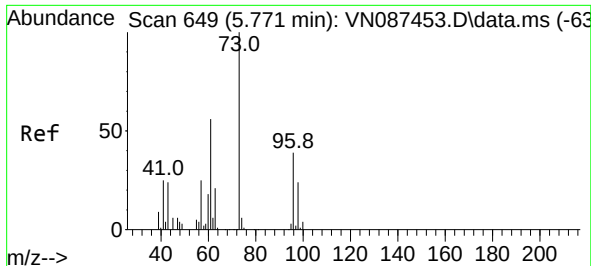
Tgt Ion: 41 Resp: 149799  
Ion Ratio Lower Upper  
41 100  
39 73.4 42.4 127.2  
76 28.3 16.9 50.6



#18  
Methylene Chloride  
Concen: 18.387 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 84 Resp: 93115  
Ion Ratio Lower Upper  
84 100  
49 133.2 112.9 169.3  
51 41.5 33.8 50.8  
86 64.3 51.9 77.9

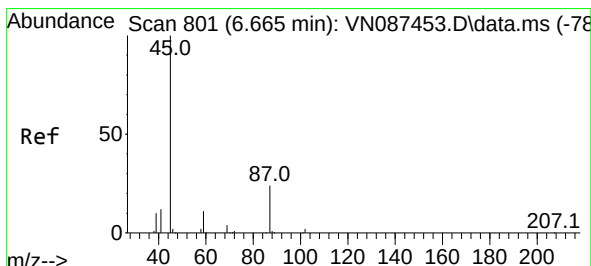
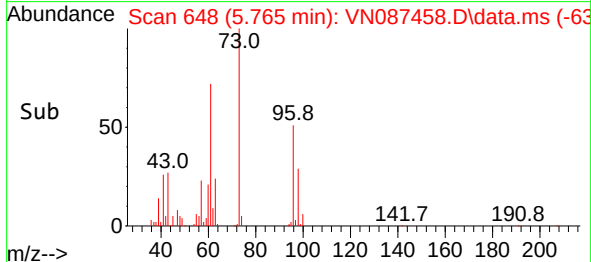
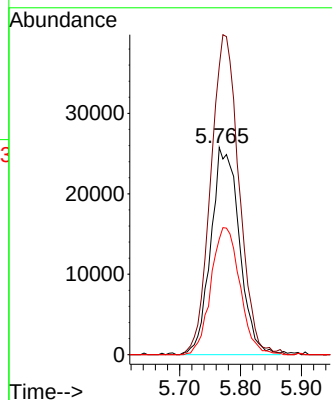
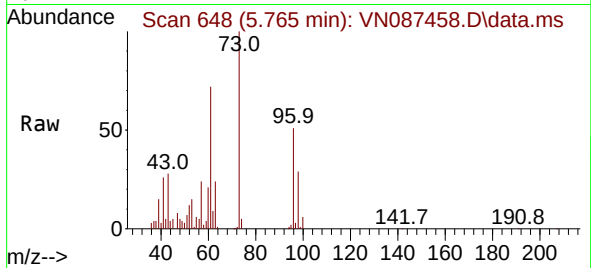




#19  
trans-1,2-Dichloroethene  
Concen: 17.906 ug/l  
RT: 5.765 min Scan# 649  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

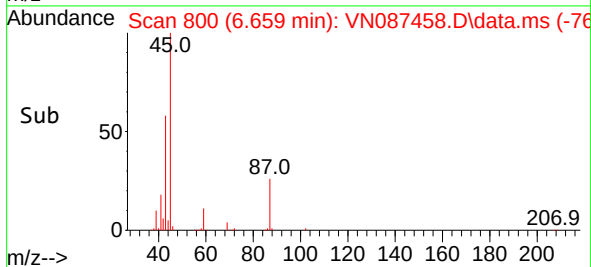
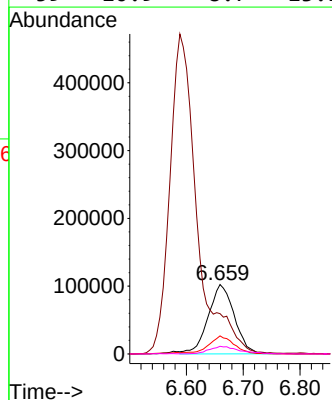
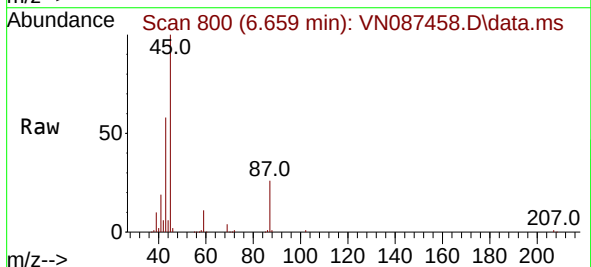
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICV080525

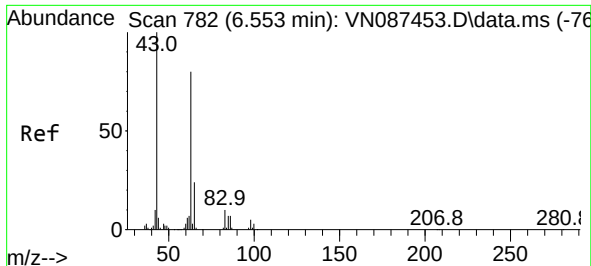
Tgt Ion: 96 Resp: 83760  
Ion Ratio Lower Upper  
96 100  
61 139.1 114.2 171.4  
98 55.8 48.7 73.1



#20  
Diisopropyl ether  
Concen: 17.917 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 45 Resp: 327254  
Ion Ratio Lower Upper  
45 100  
43 57.1 44.7 67.1  
87 25.8 20.2 30.2  
59 10.9 8.7 13.1

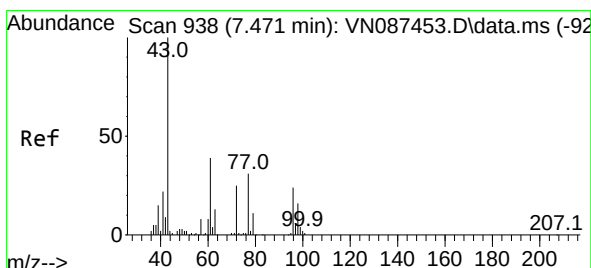
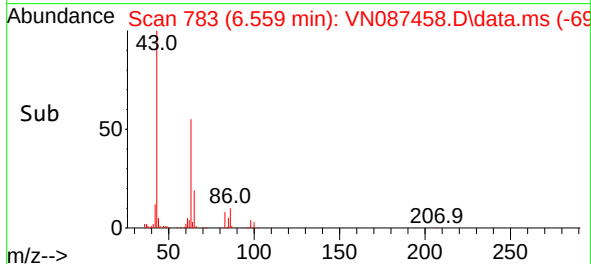
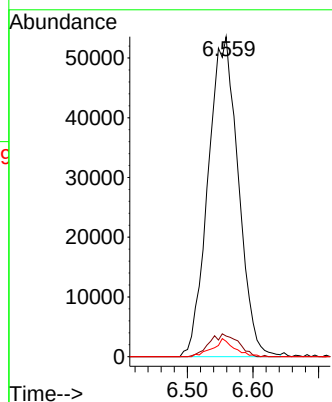
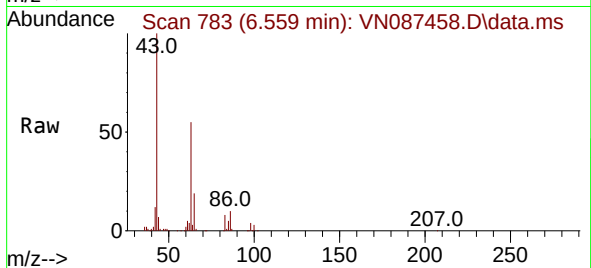




#21  
1,1-Dichloroethane  
Concen: 18.134 ug/l  
RT: 6.559 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

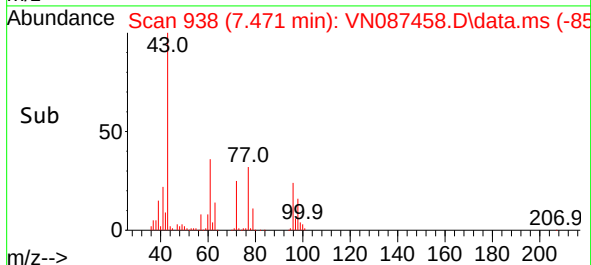
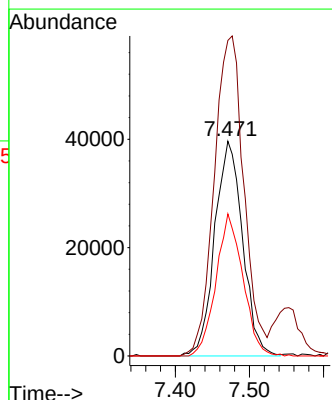
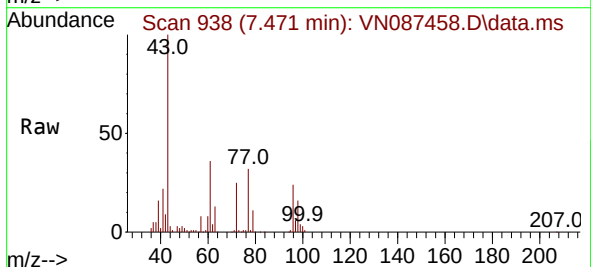
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

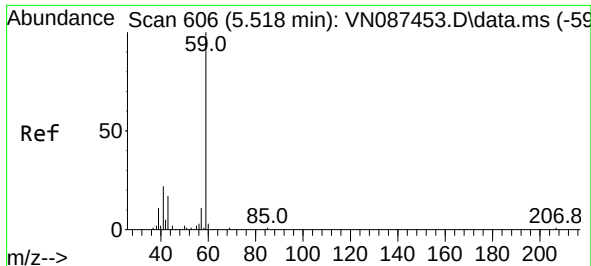
Tgt Ion: 63 Resp: 171210  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.0 9.0  
100 4.8 1.9 5.7



#22  
cis-1,2-Dichloroethene  
Concen: 18.023 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 96 Resp: 103737  
Ion Ratio Lower Upper  
96 100  
61 158.5 126.6 190.0  
98 63.7 50.9 76.3

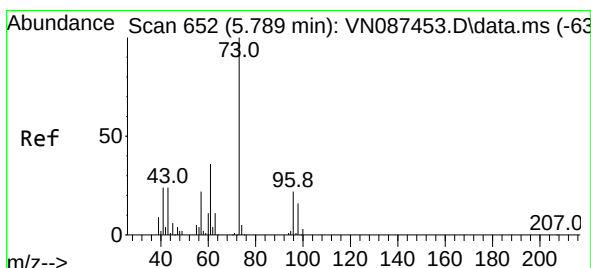
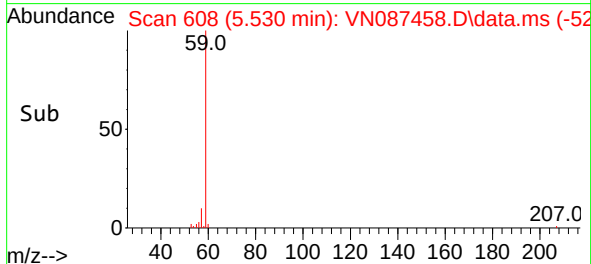
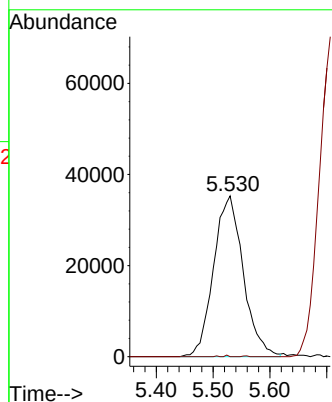
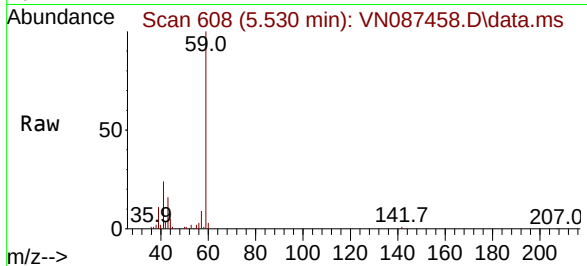




#23  
tert-Butyl Alcohol  
Concen: 95.030 ug/l  
RT: 5.530 min Scan# 606  
Delta R.T. 0.012 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

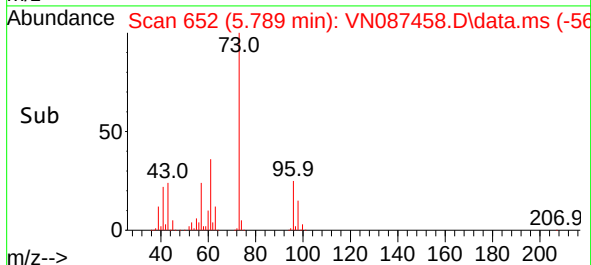
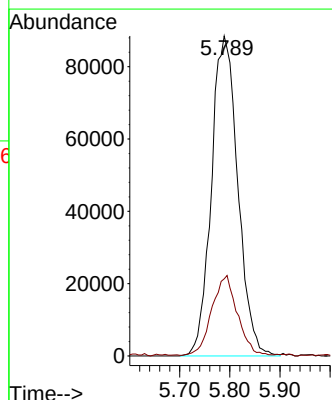
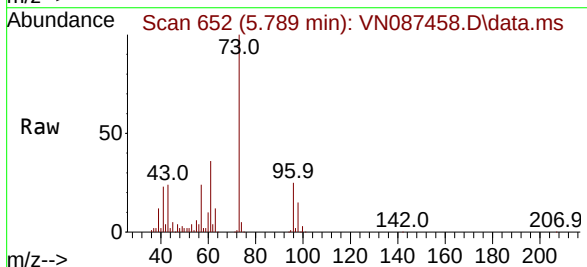
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

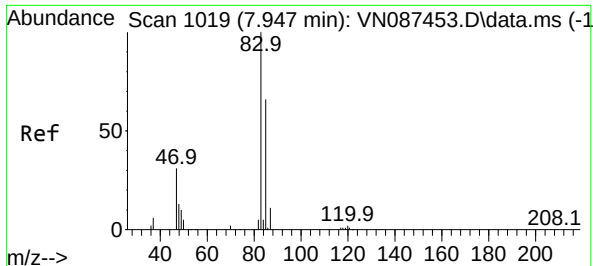
Tgt Ion: 59 Resp: 128000  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0#



#24  
Methyl tert-Butyl Ether  
Concen: 18.116 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 73 Resp: 324724  
Ion Ratio Lower Upper  
73 100  
43 24.0 19.9 29.9





#25

Chloroform

Concen: 18.021 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

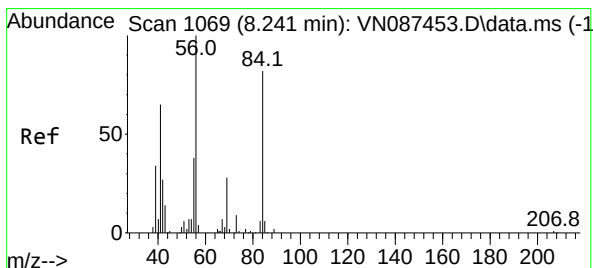
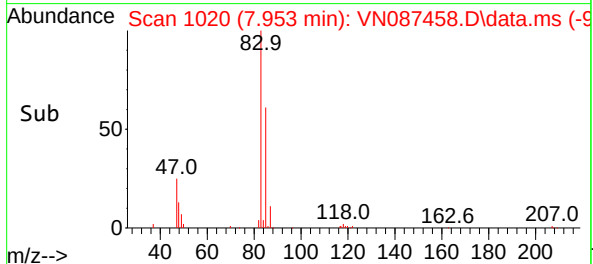
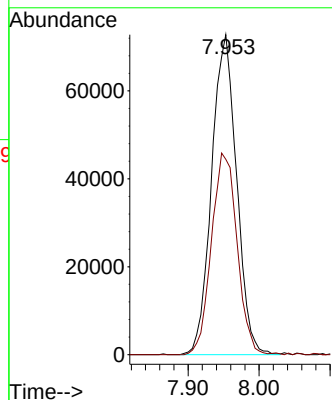
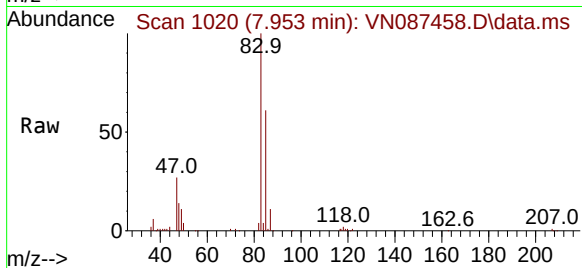
ICVVN080525

Tgt Ion: 83 Resp: 177598

Ion Ratio Lower Upper

83 100

85 61.1 52.6 78.8



#26

Cyclohexane

Concen: 17.977 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

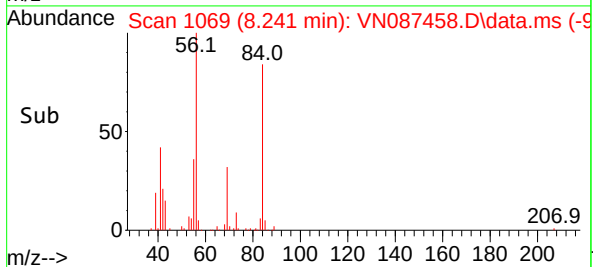
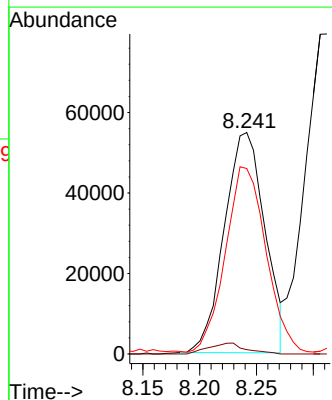
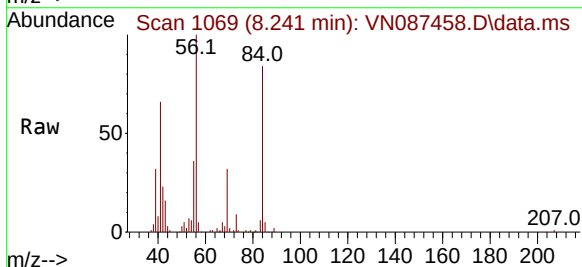
Tgt Ion: 56 Resp: 135890

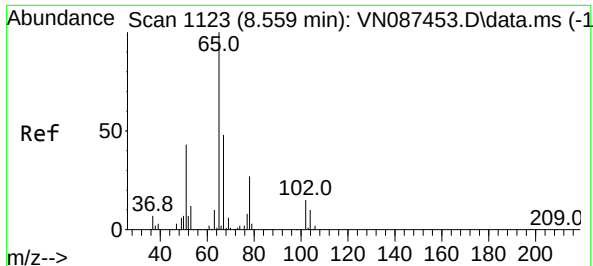
Ion Ratio Lower Upper

56 100

89 4.5 2.3 3.5#

84 84.6 67.0 100.4

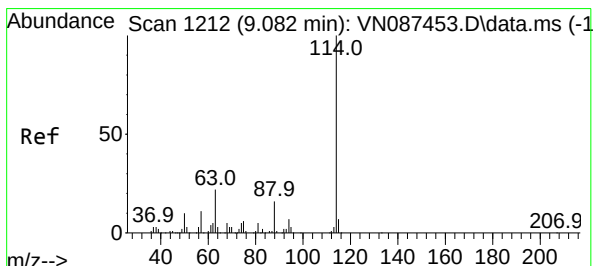
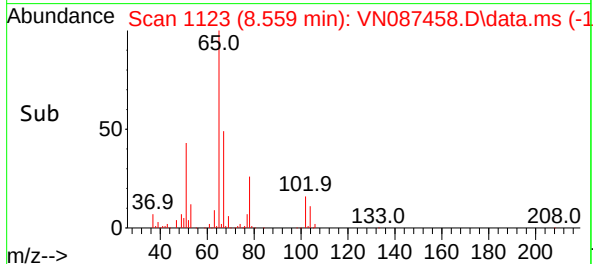
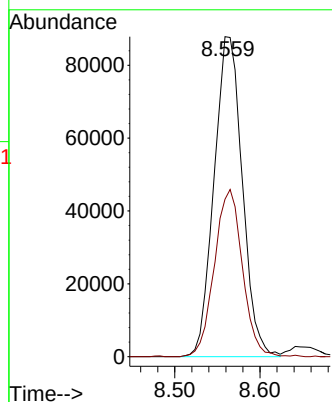
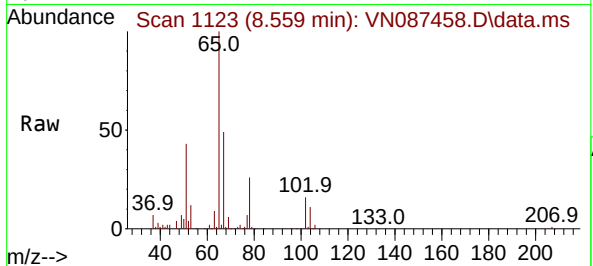




#27  
1,2-Dichloroethane-d4  
Concen: 30.545 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

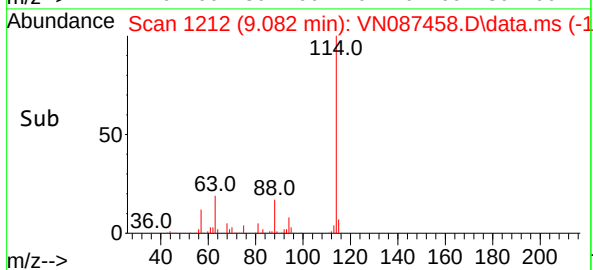
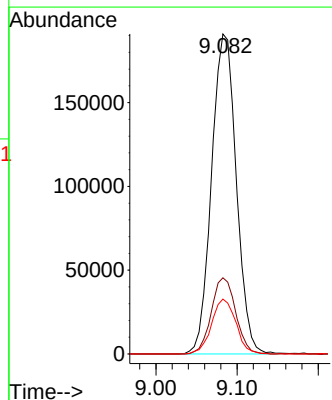
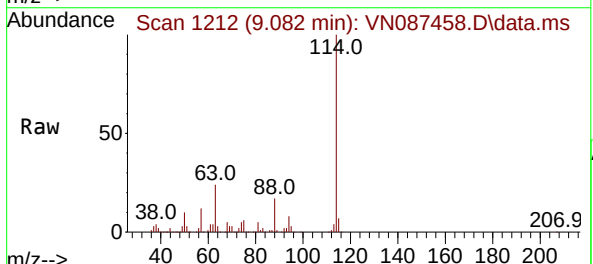
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ClientSampleId :  
ICVVN080525

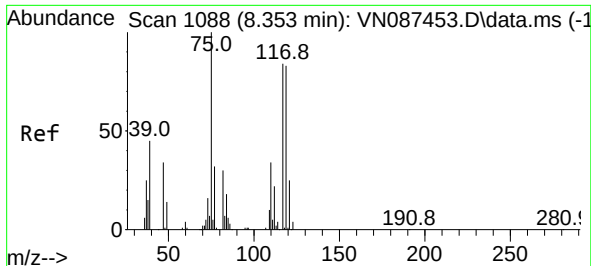
Tgt Ion: 65 Resp: 202347  
Ion Ratio Lower Upper  
65 100  
67 51.8 40.8 61.2



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 114 Resp: 404390  
Ion Ratio Lower Upper  
114 100  
63 23.5 18.9 28.3  
88 16.8 13.1 19.7

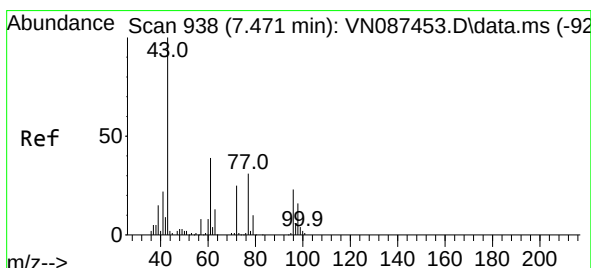
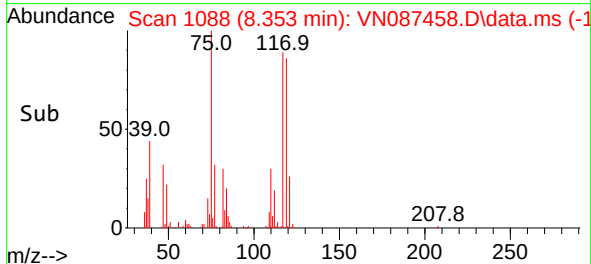
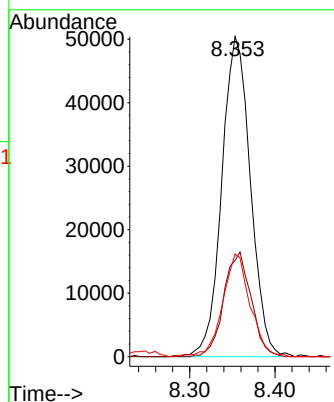
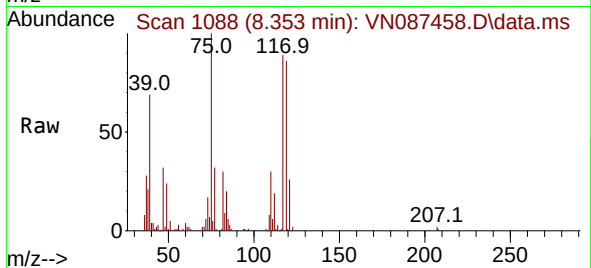




#29  
1,1-Dichloropropene  
Concen: 17.825 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

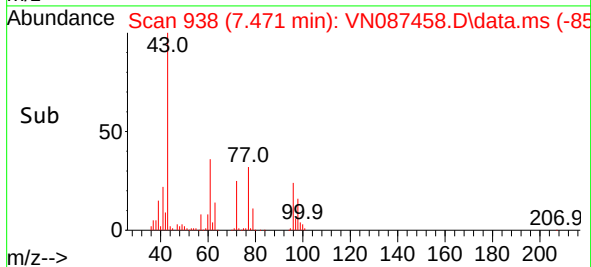
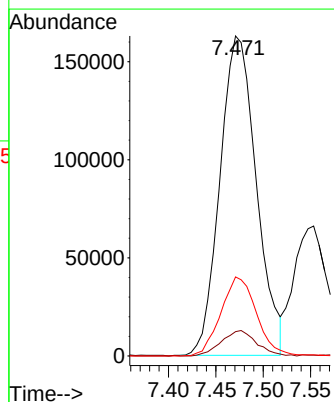
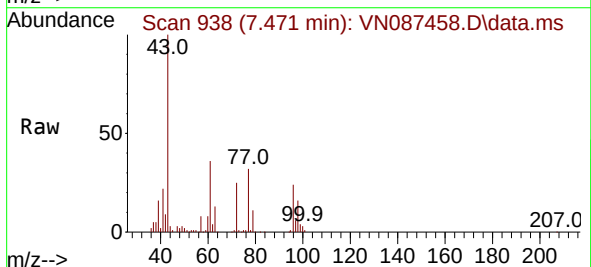
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVFN080525

Tgt Ion: 75 Resp: 117565  
Ion Ratio Lower Upper  
75 100  
110 31.3 0.0 65.8  
77 31.0 0.0 63.6

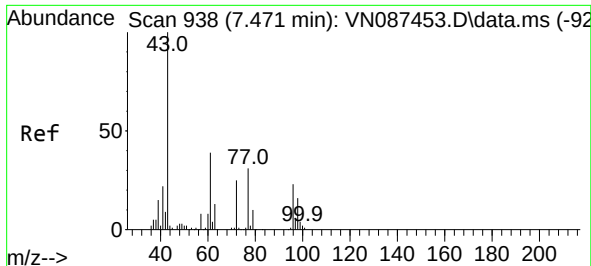


#30  
2-Butanone  
Concen: 89.621 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 435716  
Ion Ratio Lower Upper  
43 100  
57 7.7 6.6 9.8  
72 24.2 19.7 29.5



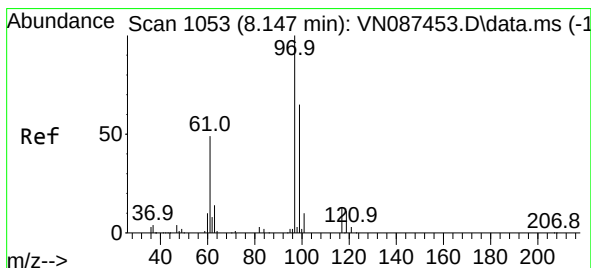
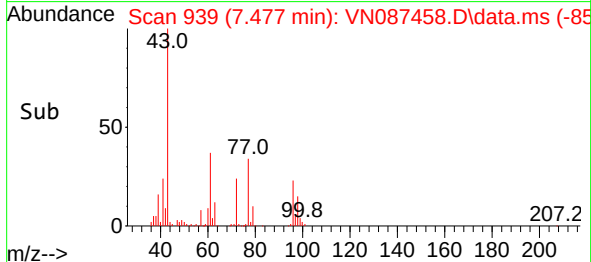
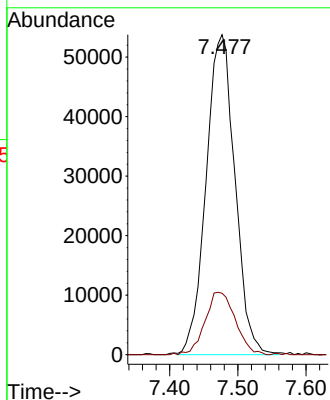
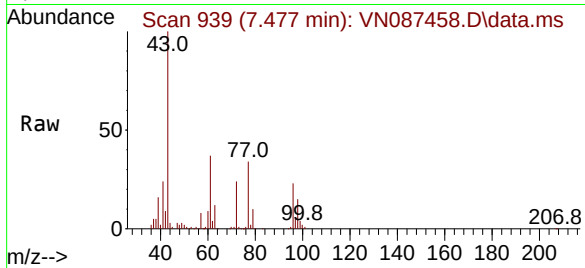




#31  
2,2-Dichloropropane  
Concen: 18.630 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

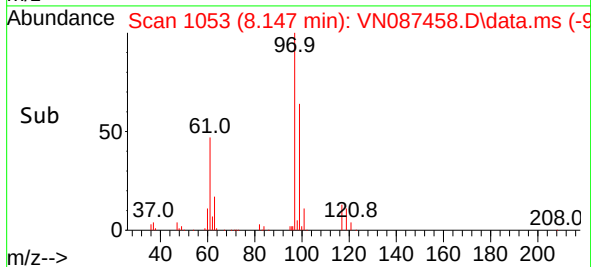
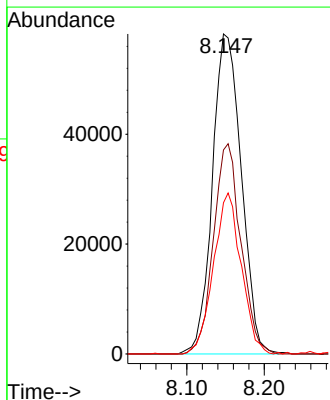
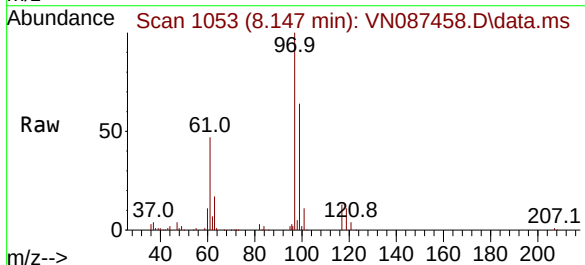
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

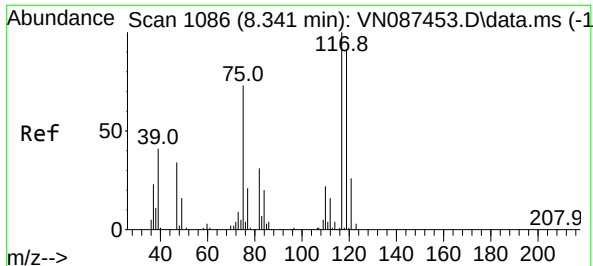
Tgt Ion: 77 Resp: 158483  
Ion Ratio Lower Upper  
77 100  
97 20.2 16.7 25.1



#32  
1,1,1-Trichloroethane  
Concen: 17.988 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 97 Resp: 151313  
Ion Ratio Lower Upper  
97 100  
99 62.5 53.0 79.6  
61 48.3 40.6 61.0

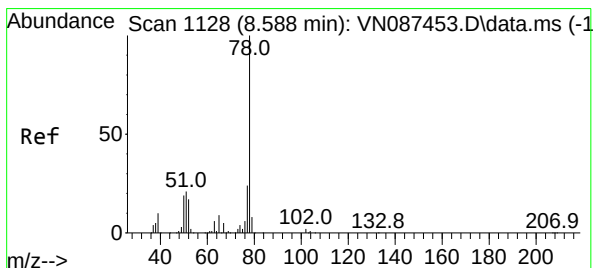
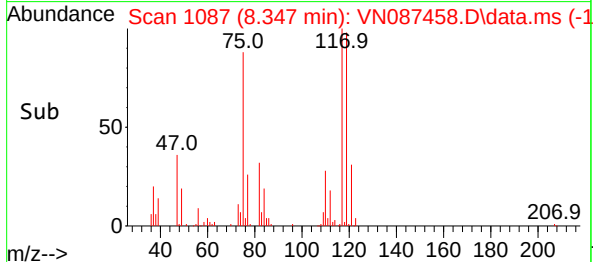
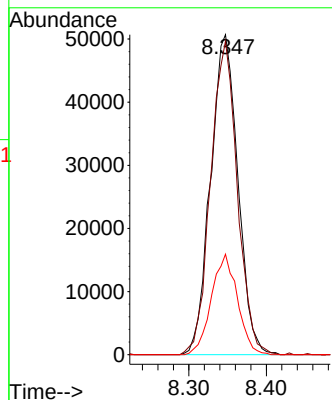
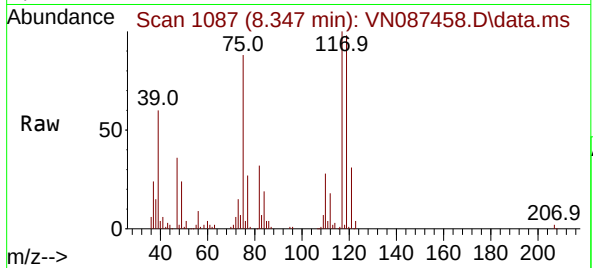




#33  
Carbon Tetrachloride  
Concen: 17.777 ug/l  
RT: 8.347 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

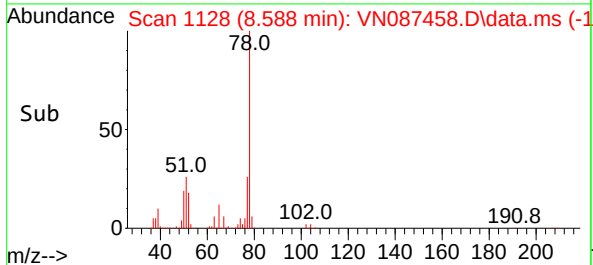
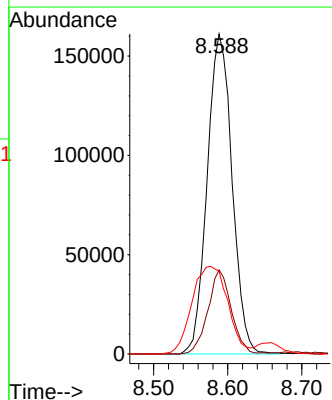
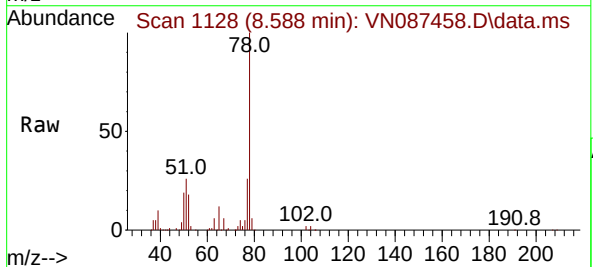
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

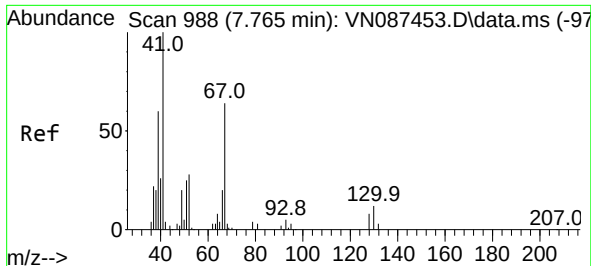
Tgt Ion:117 Resp: 124231  
Ion Ratio Lower Upper  
117 100  
119 97.9 73.4 110.0  
121 31.4 21.1 31.7



#34  
Benzene  
Concen: 18.060 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 78 Resp: 376019  
Ion Ratio Lower Upper  
78 100  
77 26.3 19.2 28.8  
51 23.8 16.9 25.3

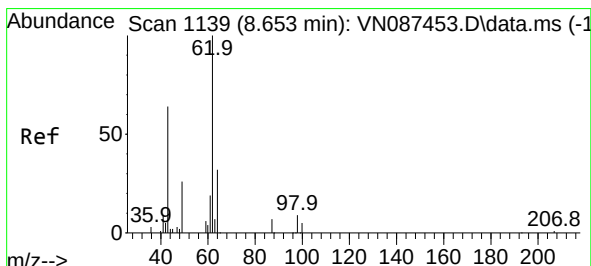
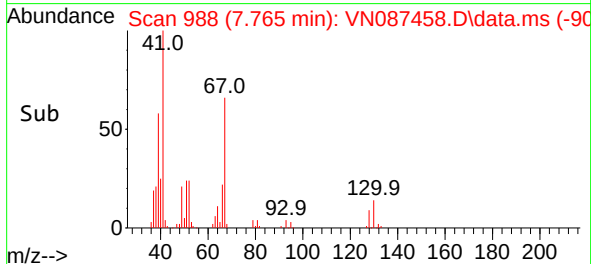
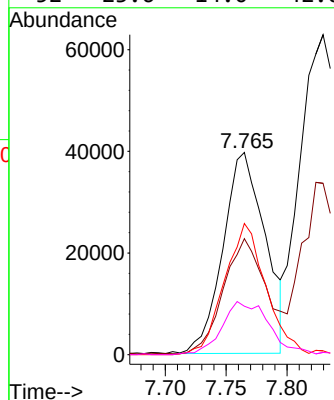
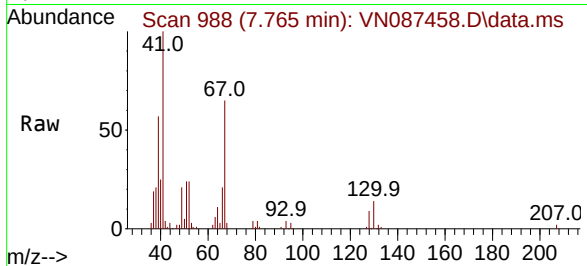




#35  
Methacrylonitrile  
Concen: 18.163 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

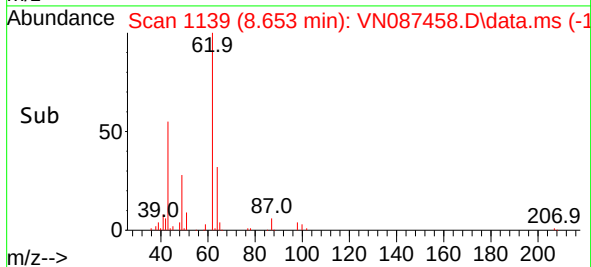
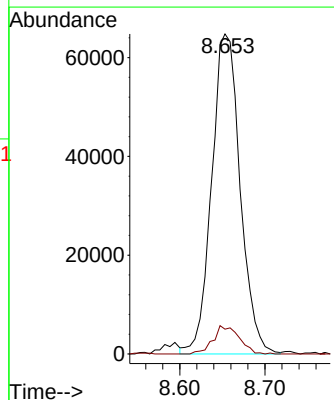
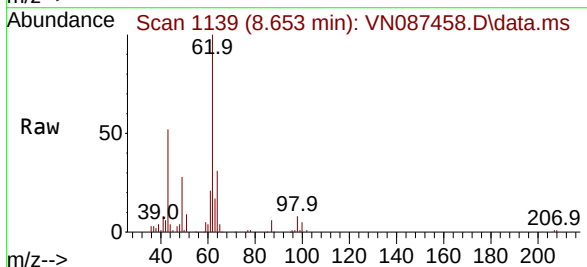
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

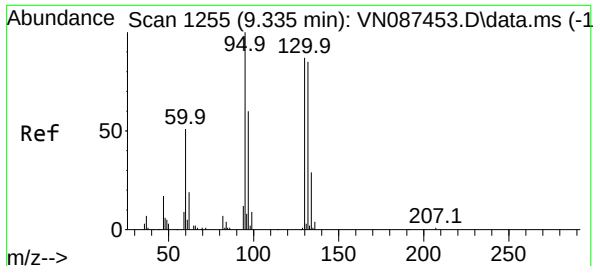
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 95290 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 57.4  | 30.1  | 90.5  |
| 67       | 65.1  | 32.0  | 96.2  |
| 52       | 23.6  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 17.918 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 150784 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.0   | 6.6   | 9.8    |





#37

Trichloroethene

Concen: 18.041 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

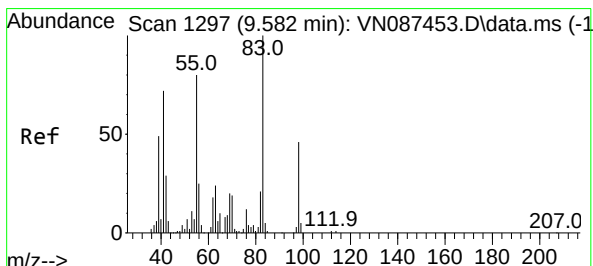
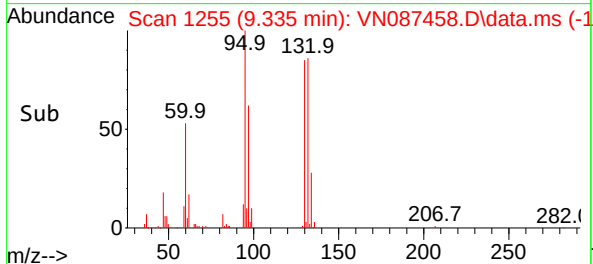
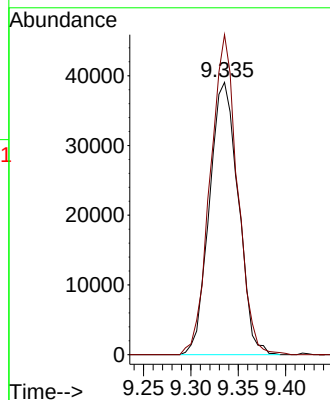
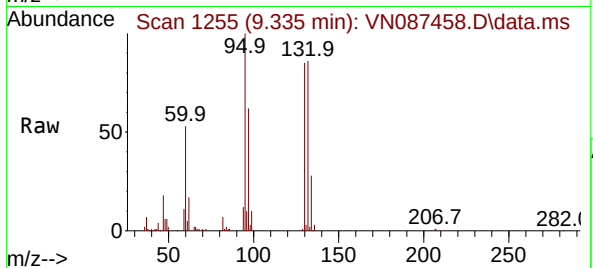
ICVVN080525

Tgt Ion:130 Resp: 82742

Ion Ratio Lower Upper

130 100

95 117.5 91.4 137.2



#38

Methylcyclohexane

Concen: 17.882 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

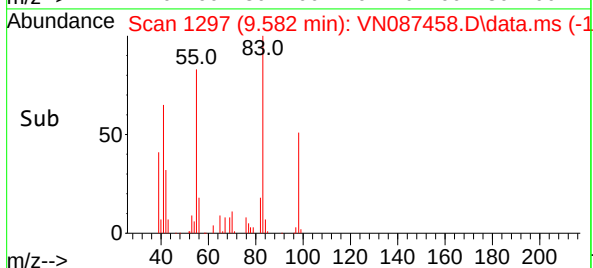
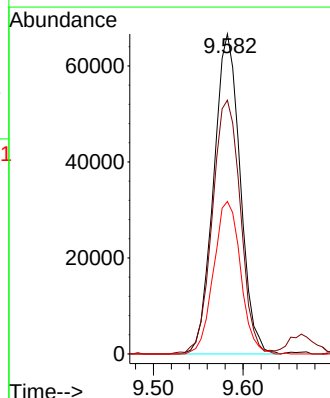
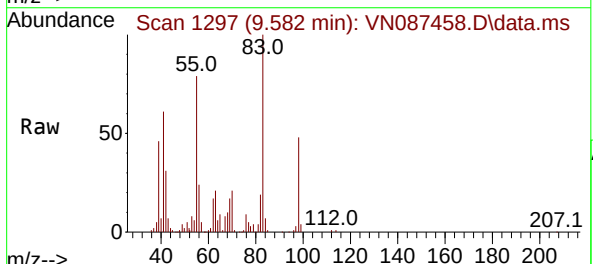
Tgt Ion: 83 Resp: 136830

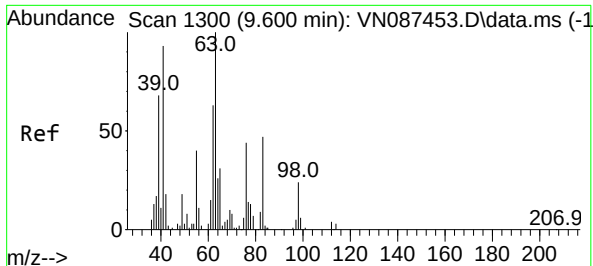
Ion Ratio Lower Upper

83 100

55 83.4 41.2 123.6

98 48.5 23.3 69.9

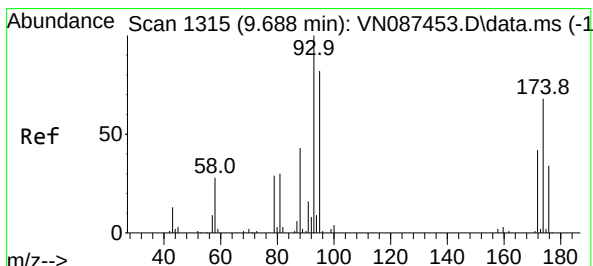
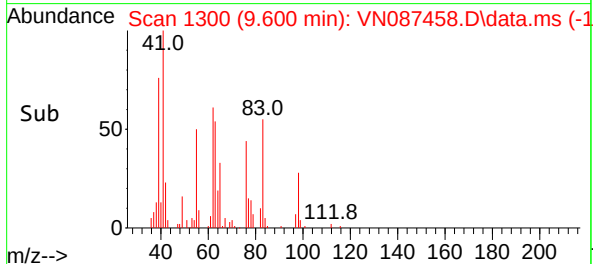
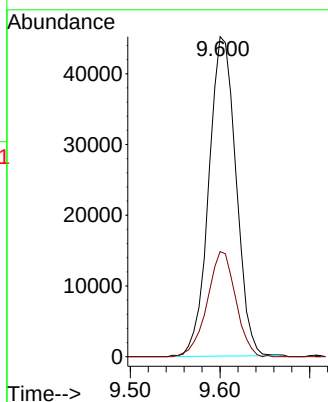
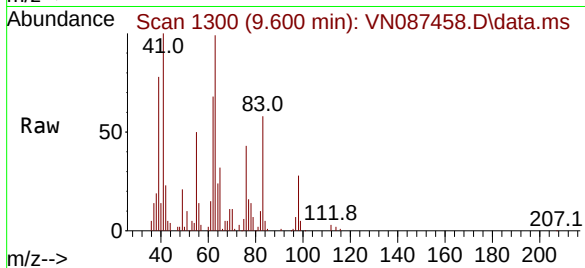




#39  
1,2-Dichloropropane  
Concen: 17.793 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

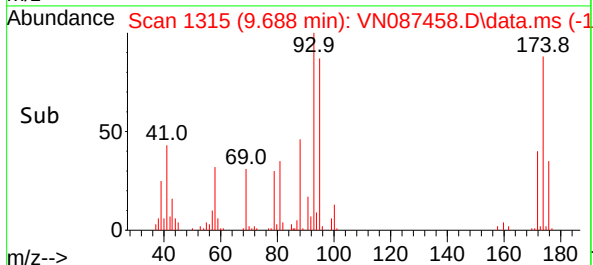
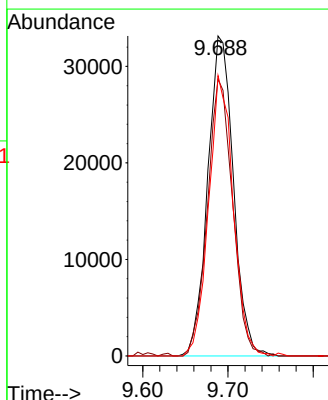
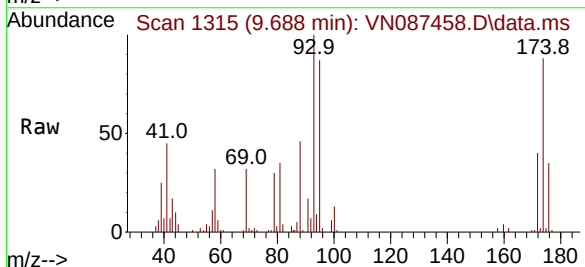
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

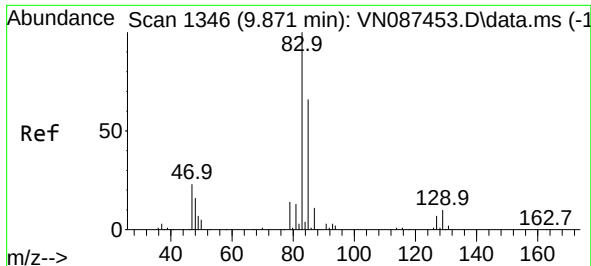
Tgt Ion: 63 Resp: 94981  
Ion Ratio Lower Upper  
63 100  
65 33.0 24.6 36.8



#40  
Dibromomethane  
Concen: 17.288 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 93 Resp: 69241  
Ion Ratio Lower Upper  
93 100  
95 84.9 0.0 161.6  
174 84.1 0.0 151.4

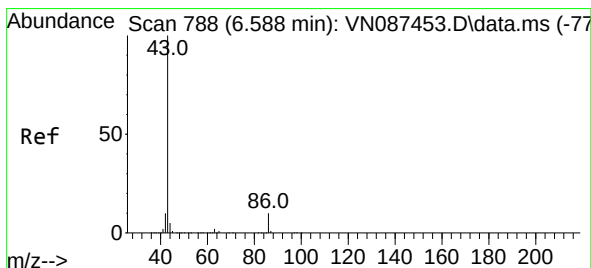
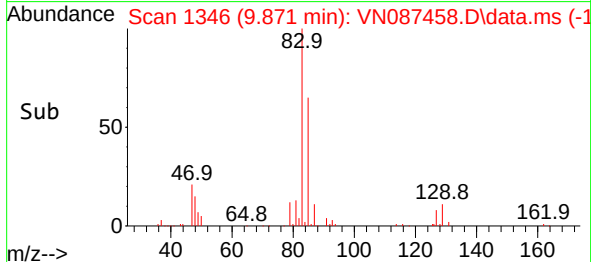
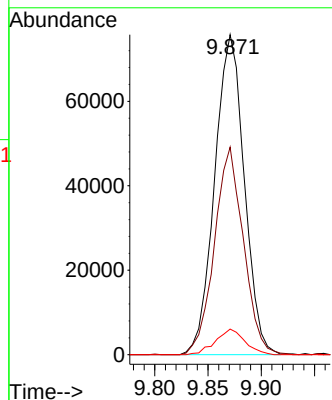
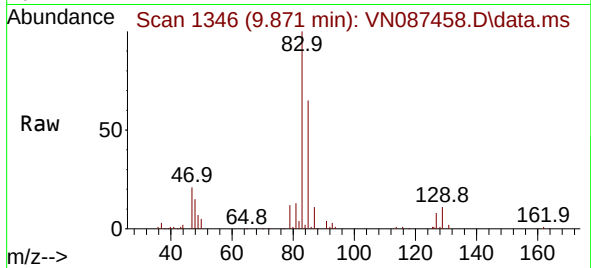




#41  
Bromodichloromethane  
Concen: 17.583 ug/l  
RT: 9.871 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

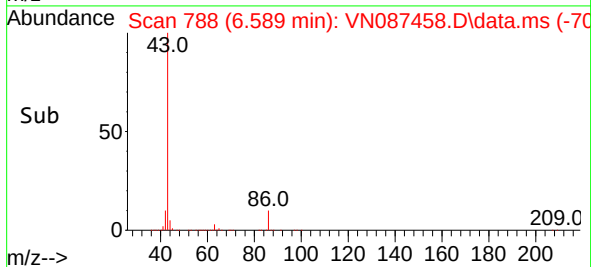
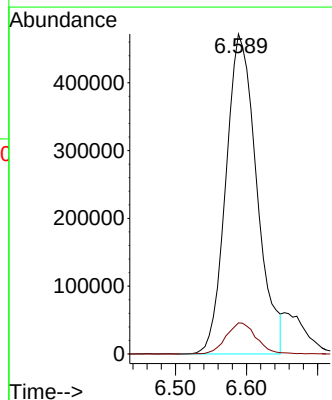
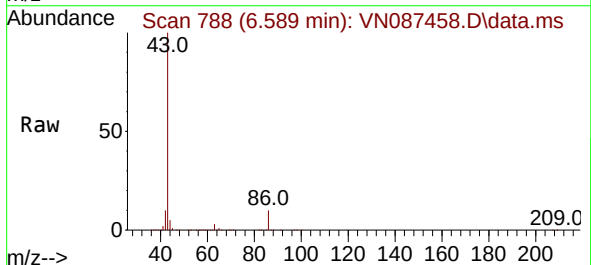
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

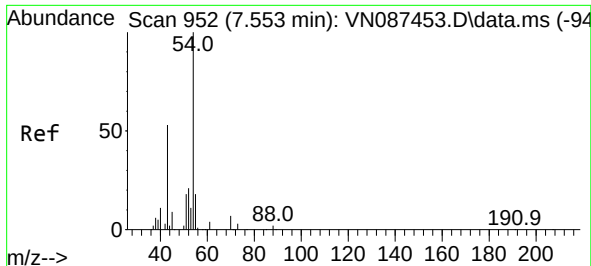
Tgt Ion: 83 Resp: 146339  
Ion Ratio Lower Upper  
83 100  
85 64.8 52.9 79.3  
127 8.0 5.8 8.6



#42  
Vinyl Acetate  
Concen: 88.913 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 1423556  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9

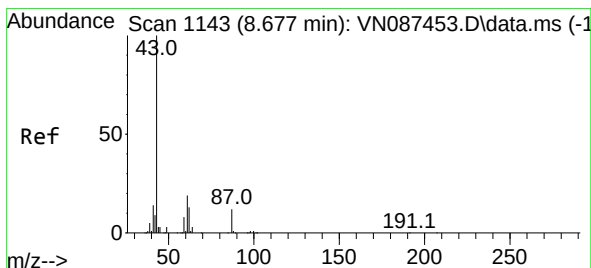
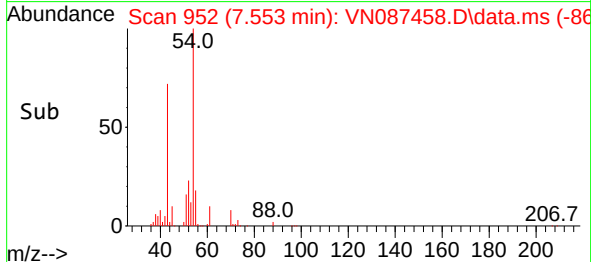
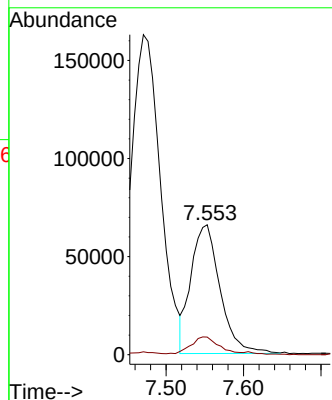
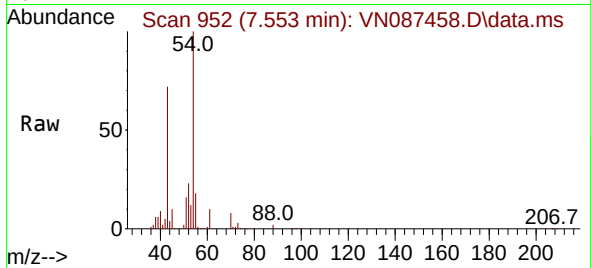




#43  
Ethyl Acetate  
Concen: 18.279 ug/l  
RT: 7.553 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

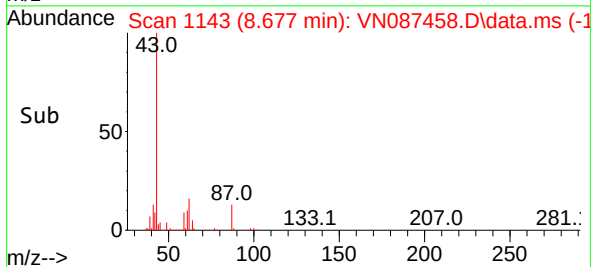
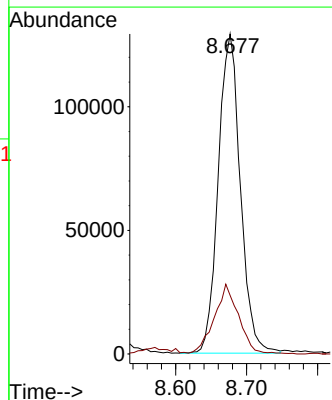
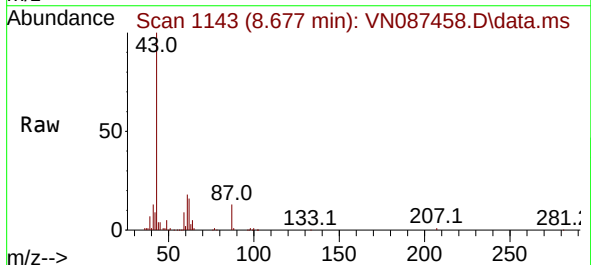
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

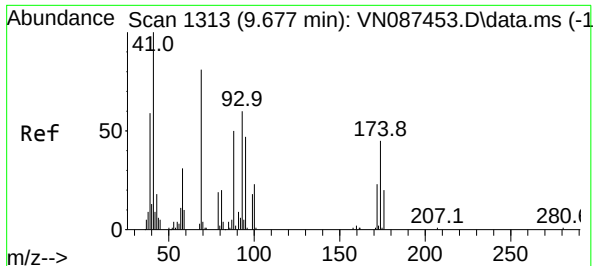
Tgt Ion: 43 Resp: 171684  
Ion Ratio Lower Upper  
43 100  
45 13.7 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 17.492 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 278498  
Ion Ratio Lower Upper  
43 100  
61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 377.572 ug/l

RT: 9.677 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

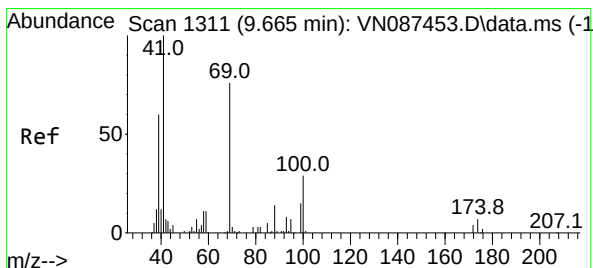
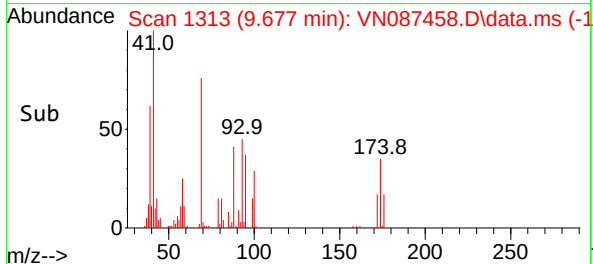
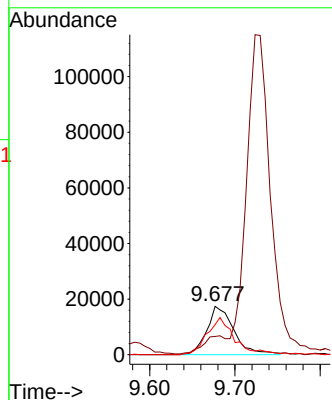
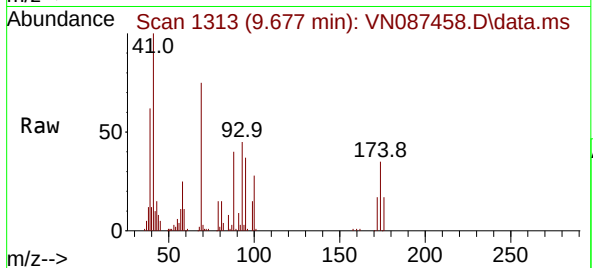
Tgt Ion: 88 Resp: 38322

Ion Ratio Lower Upper

88 100

43 30.6 24.1 36.1

58 73.3 57.2 85.8



#46

Methyl methacrylate

Concen: 16.972 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

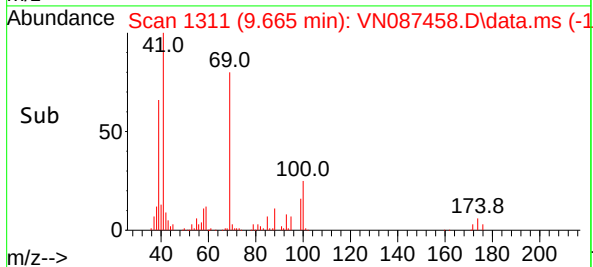
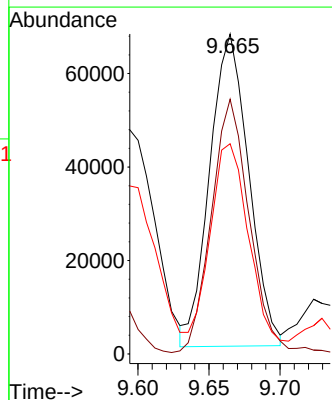
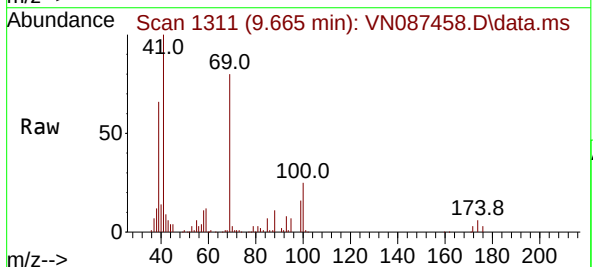
Tgt Ion: 41 Resp: 127548

Ion Ratio Lower Upper

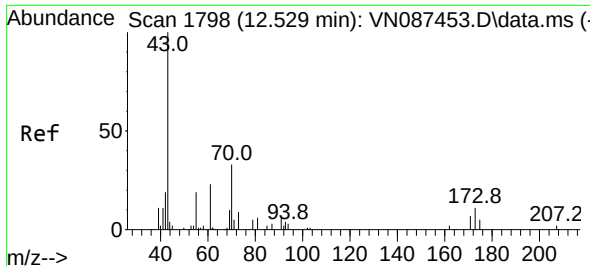
41 100

69 83.5 37.1 111.5

39 65.2 30.7 92.1



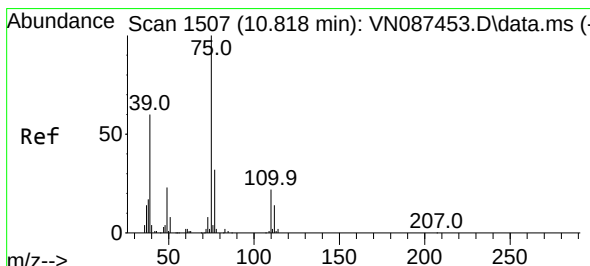
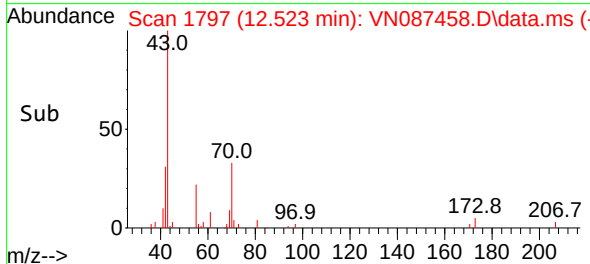
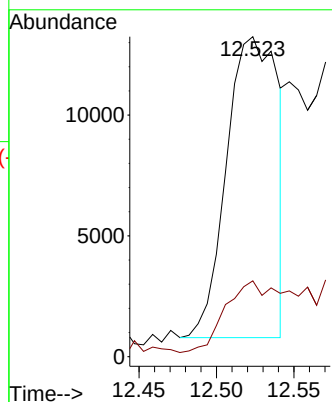
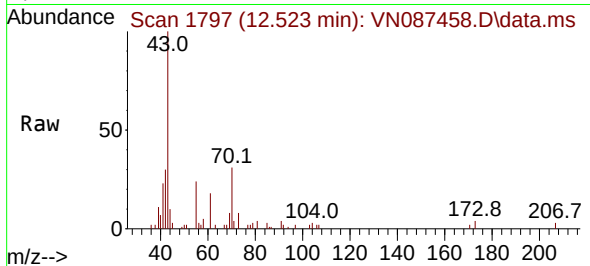




#47  
n-amy1 Acetate  
Concen: 3.254 ug/l  
RT: 12.523 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

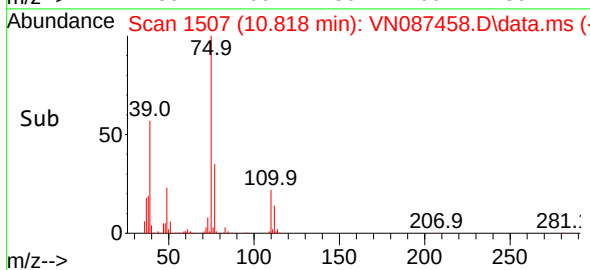
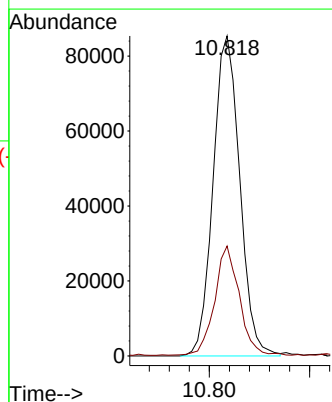
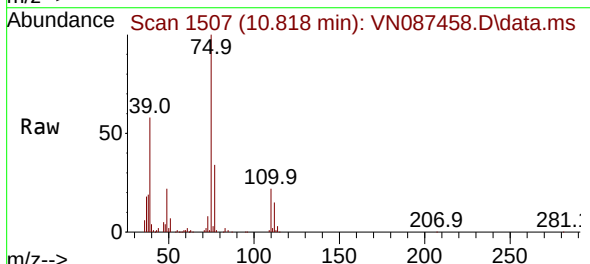
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

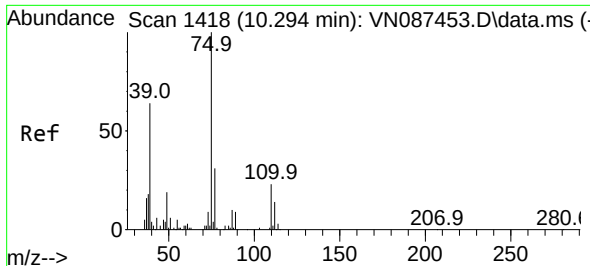
Tgt Ion: 43 Resp: 28620  
Ion Ratio Lower Upper  
43 100  
55 17.2 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 17.415 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 75 Resp: 157686  
Ion Ratio Lower Upper  
75 100  
77 34.0 25.3 37.9

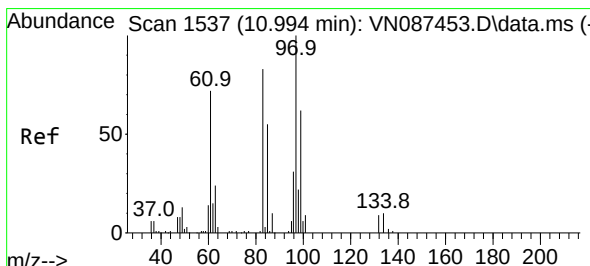
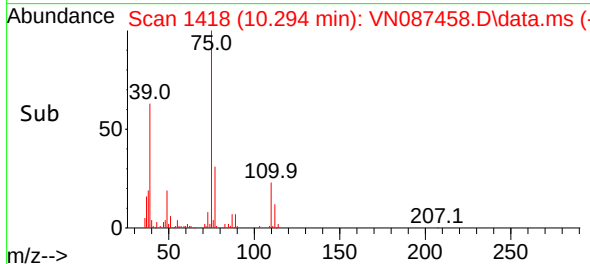
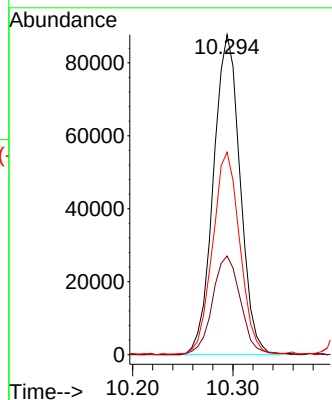
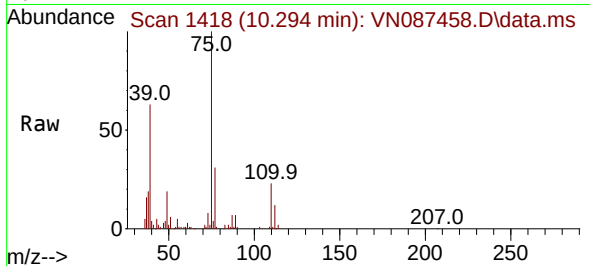




#49  
 cis-1,3-Dichloropropene  
 Concen: 17.812 ug/l  
 RT: 10.294 min Scan# 1418  
 Delta R.T. 0.000 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

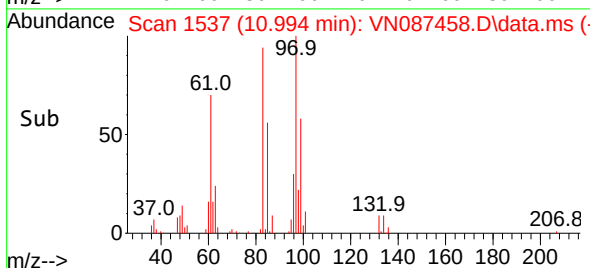
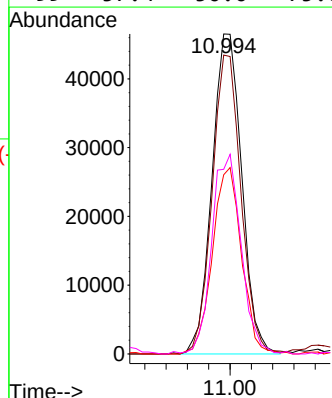
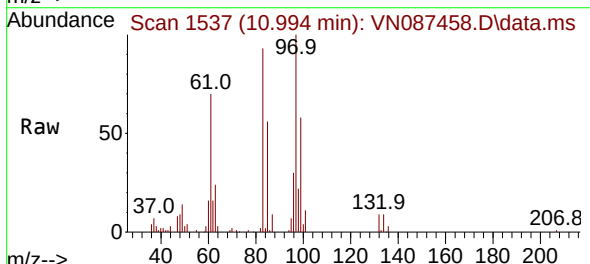
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN080525

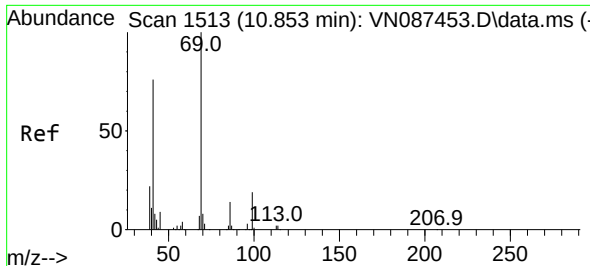
Tgt Ion: 75 Resp: 162308  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 24.6 36.8  
 39 62.9 51.5 77.3



#50  
 1,1,2-Trichloroethane  
 Concen: 17.791 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. 0.000 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

Tgt Ion: 97 Resp: 90030  
 Ion Ratio Lower Upper  
 97 100  
 83 93.4 66.2 99.2  
 85 56.0 43.9 65.9  
 99 57.4 50.0 75.0

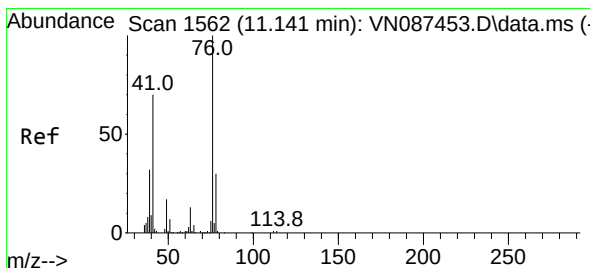
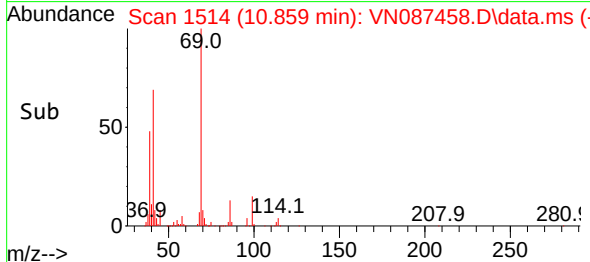
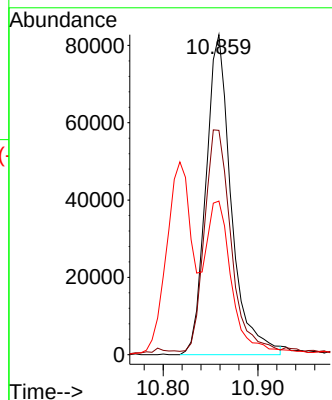
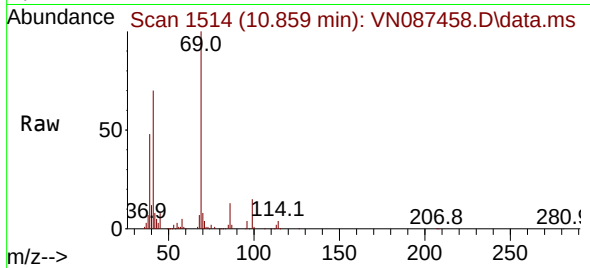




#51  
Ethyl methacrylate  
Concen: 17.260 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

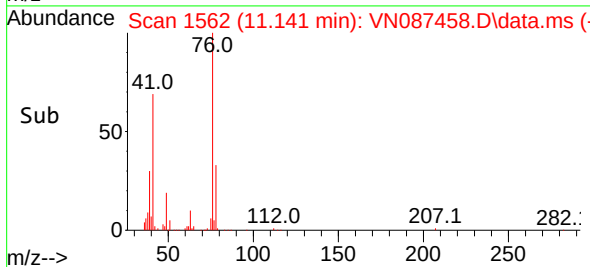
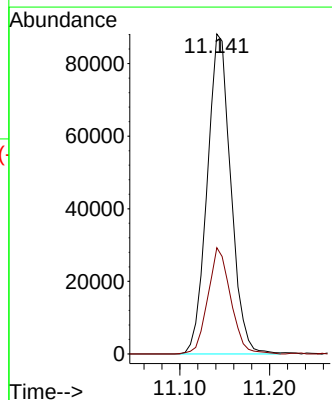
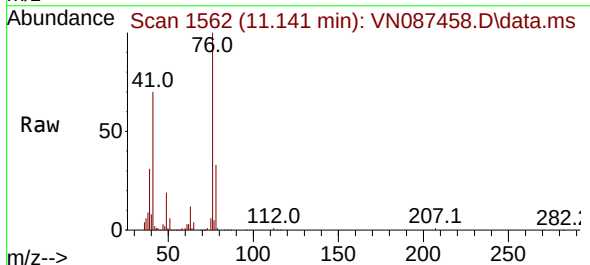
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

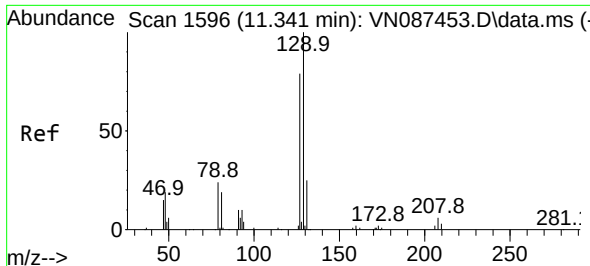
Tgt Ion: 69 Resp: 153822  
Ion Ratio Lower Upper  
69 100  
41 69.0 38.0 114.1  
39 46.4 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 17.664 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 161040  
Ion Ratio Lower Upper  
76 100  
78 32.1 0.0 63.0

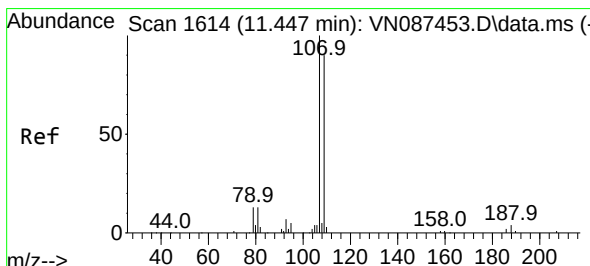
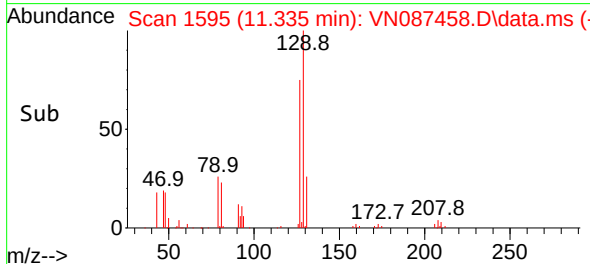
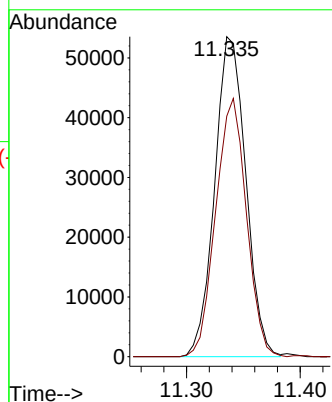
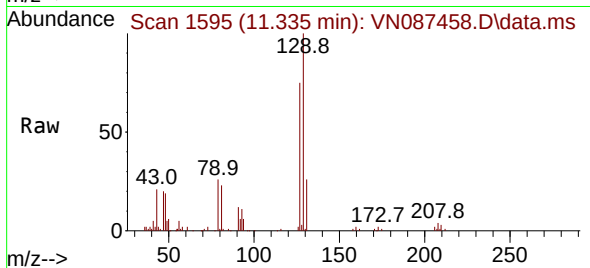




#53  
Dibromochloromethane  
Concen: 17.453 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

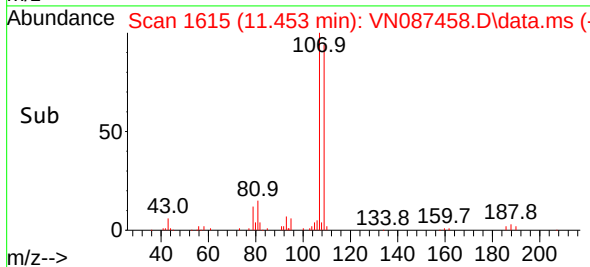
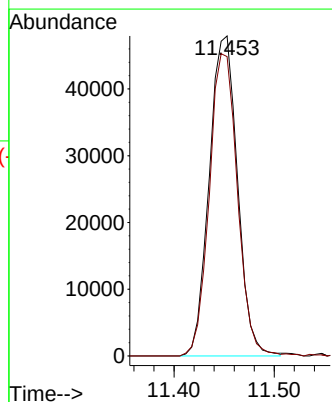
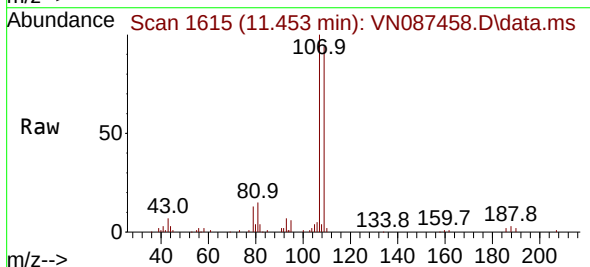
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

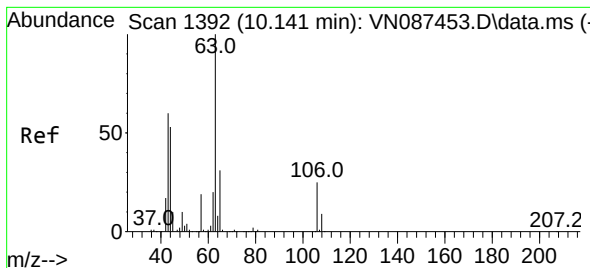
Tgt Ion:129 Resp: 101996  
Ion Ratio Lower Upper  
129 100  
127 79.5 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 17.486 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:107 Resp: 93933  
Ion Ratio Lower Upper  
107 100  
109 94.2 74.2 111.4

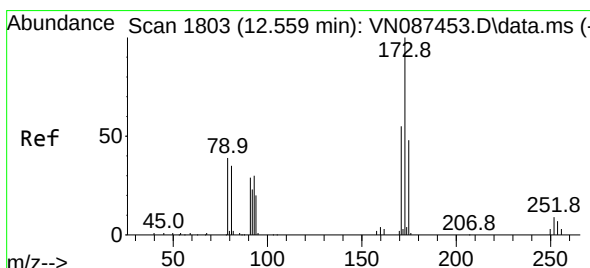
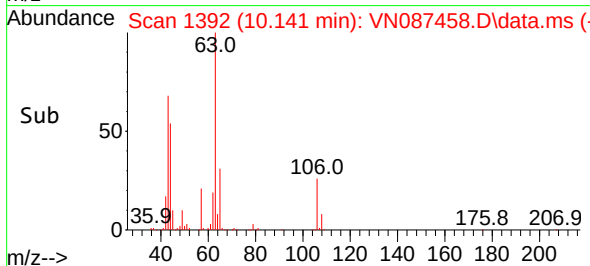
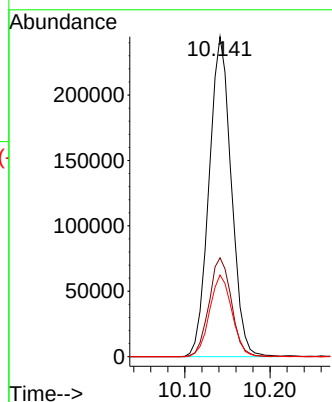
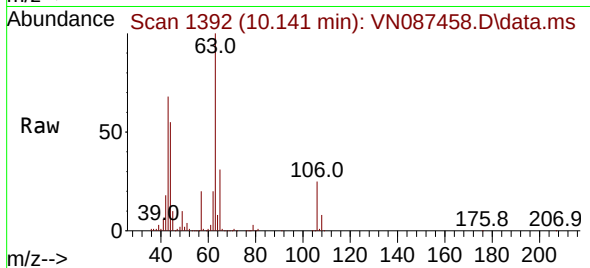




#55  
2-Chloroethyl vinyl ether  
Concen: 94.458 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

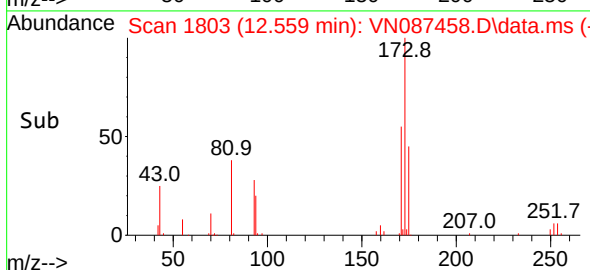
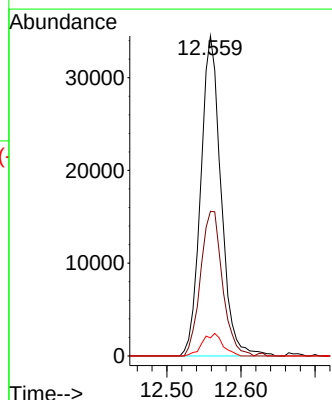
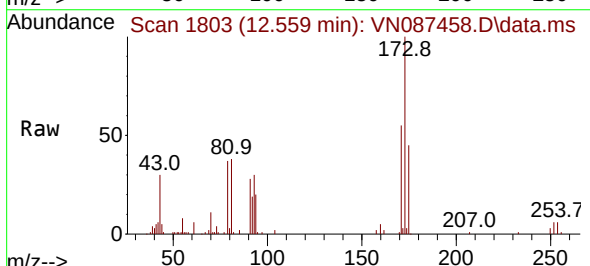
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

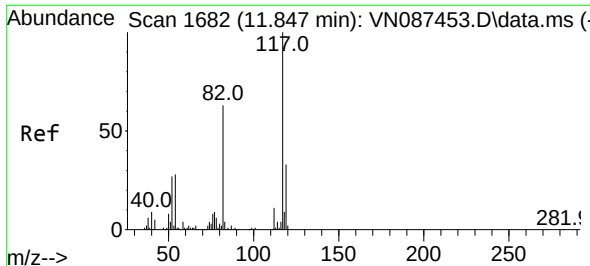
Tgt Ion: 63 Resp: 443163  
Ion Ratio Lower Upper  
63 100  
65 31.1 25.7 38.5  
106 25.7 20.7 31.1



#56  
Bromoform  
Concen: 16.992 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 173 Resp: 65682  
Ion Ratio Lower Upper  
173 100  
175 48.7 38.8 58.2  
254 7.0 3.9 5.9#

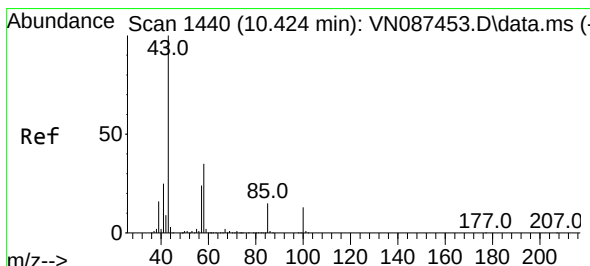
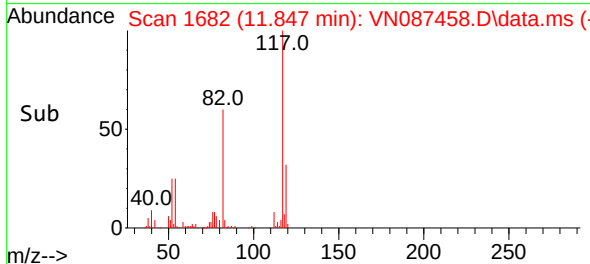
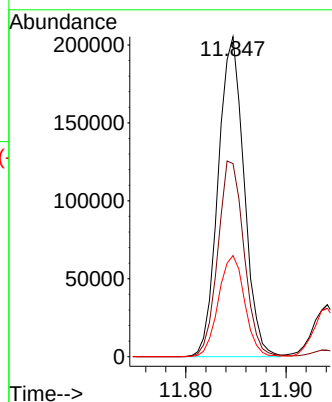
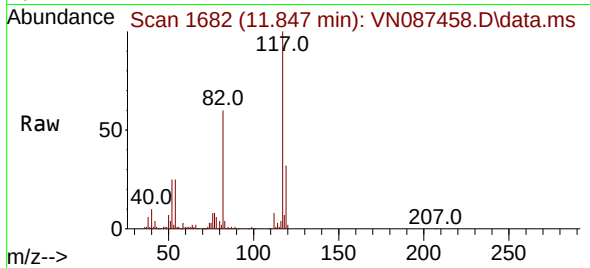




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

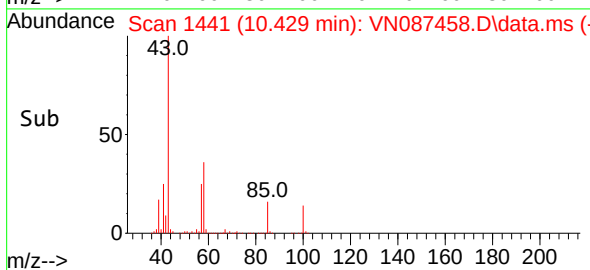
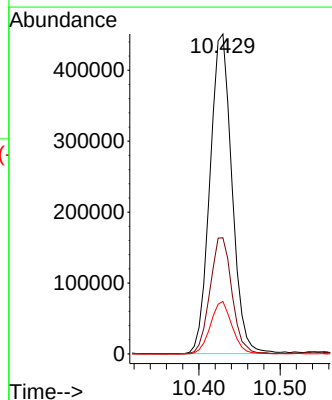
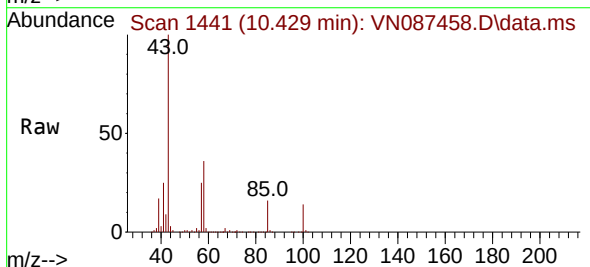
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

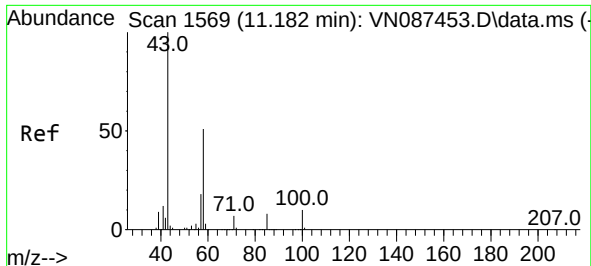
Tgt Ion:117 Resp: 367577  
Ion Ratio Lower Upper  
117 100  
82 61.9 49.2 73.8  
119 32.0 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 89.734 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 848509  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 16.2 12.7 19.1

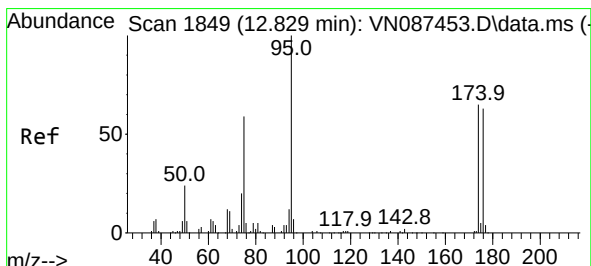
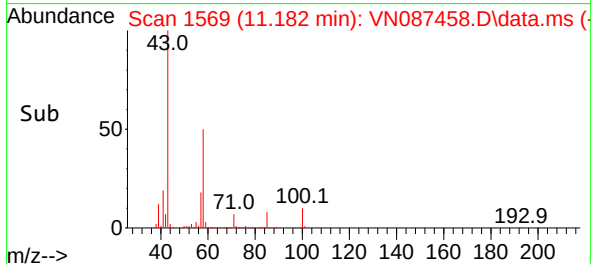
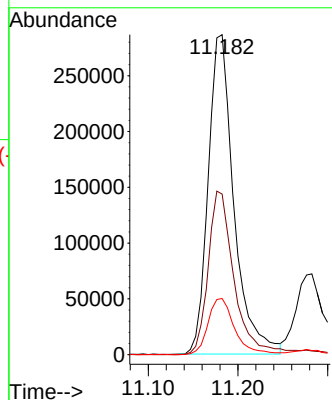
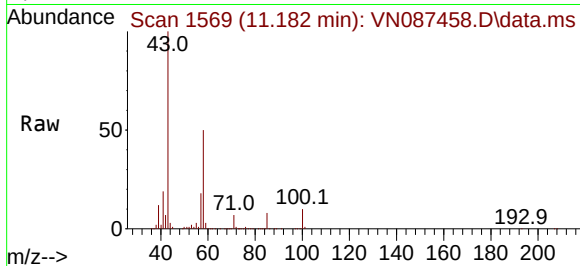




#59  
2-Hexanone  
Concen: 88.726 ug/l  
RT: 11.182 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

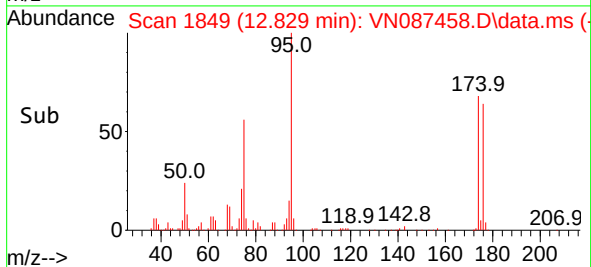
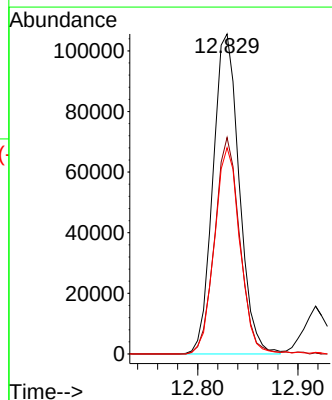
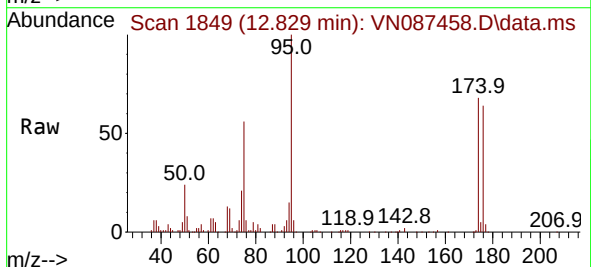
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

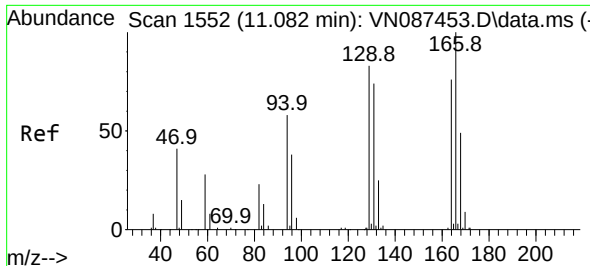
Tgt Ion: 43 Resp: 570046  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
57 18.3 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 30.417 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 95 Resp: 192410  
Ion Ratio Lower Upper  
95 100  
174 64.6 52.3 78.5  
176 62.4 49.8 74.8

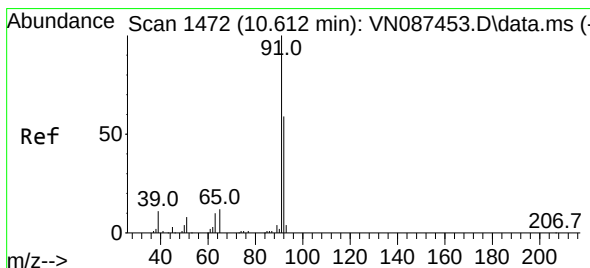
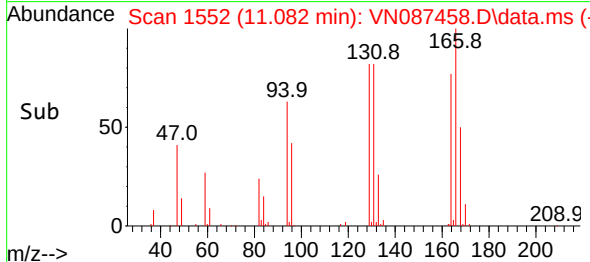
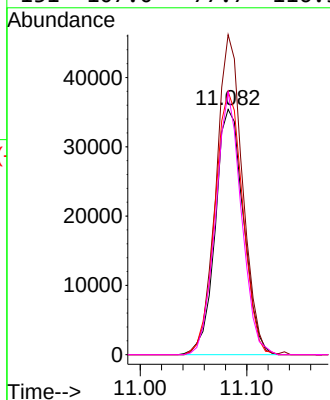
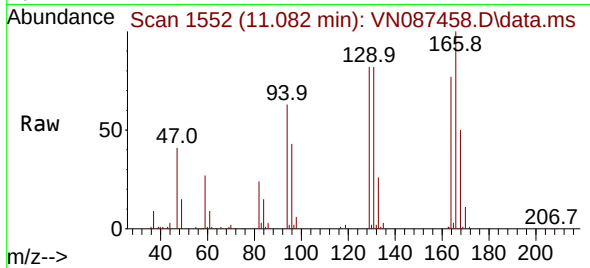




#61  
Tetrachloroethene  
Concen: 18.092 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

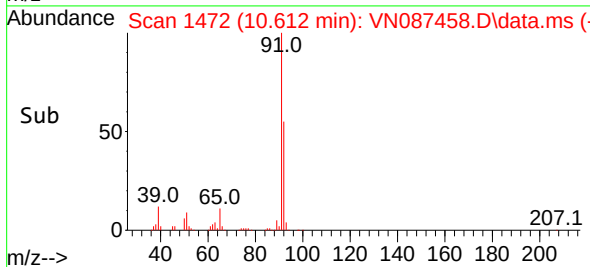
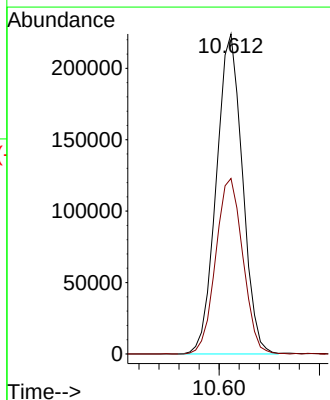
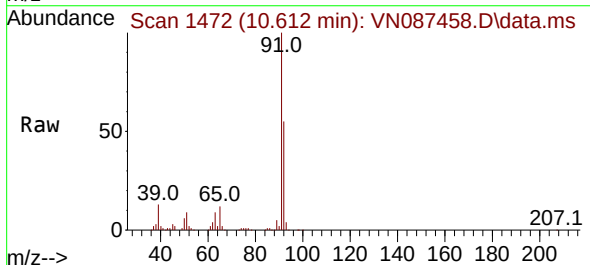
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

Tgt Ion:164 Resp: 64788  
Ion Ratio Lower Upper  
164 100  
166 130.5 105.4 158.0  
129 107.3 87.7 131.5  
131 107.0 77.7 116.5

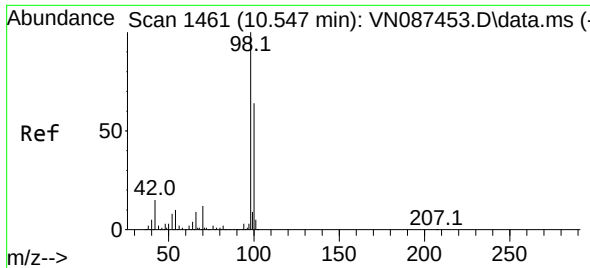


#62  
Toluene  
Concen: 17.879 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 405628  
Ion Ratio Lower Upper  
91 100  
92 57.0 45.8 68.6



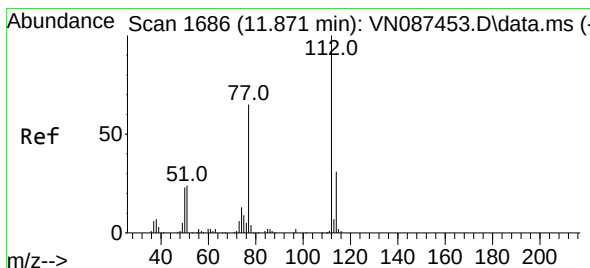
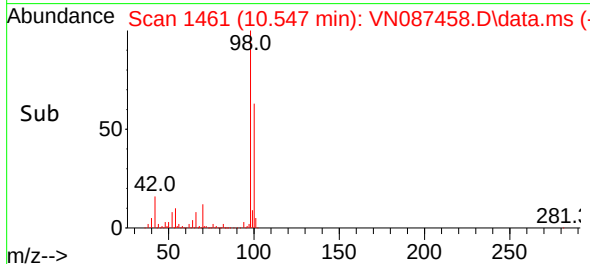
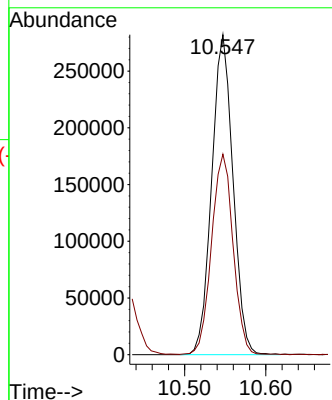
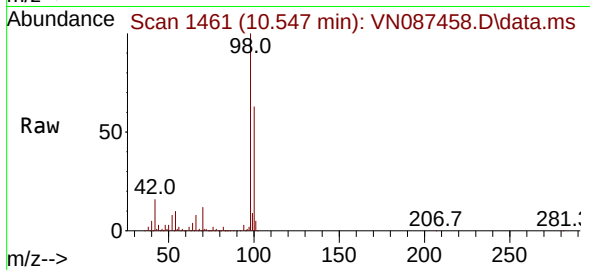




#63  
Toluene-d8  
Concen: 30.347 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

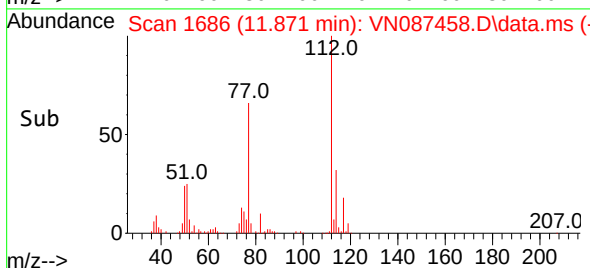
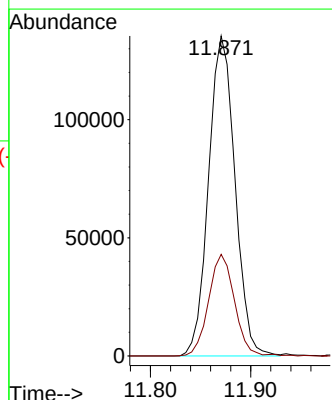
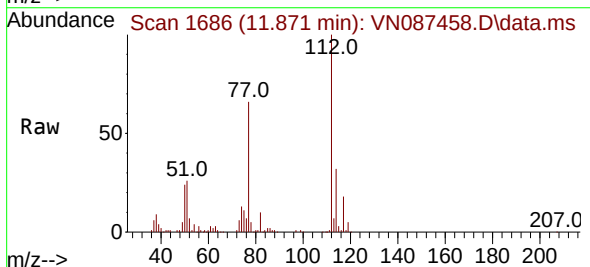
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

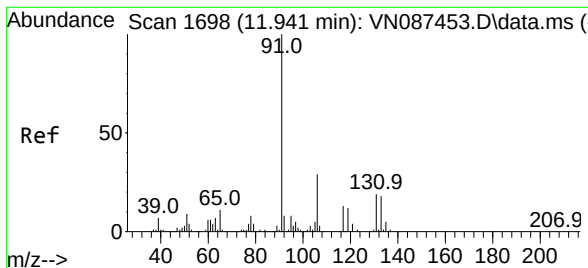
Tgt Ion: 98 Resp: 513267  
Ion Ratio Lower Upper  
98 100  
100 63.6 50.5 75.7



#64  
Chlorobenzene  
Concen: 17.811 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 112 Resp: 248284  
Ion Ratio Lower Upper  
112 100  
114 31.6 24.7 37.1

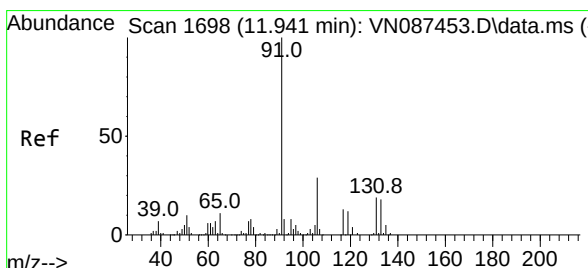
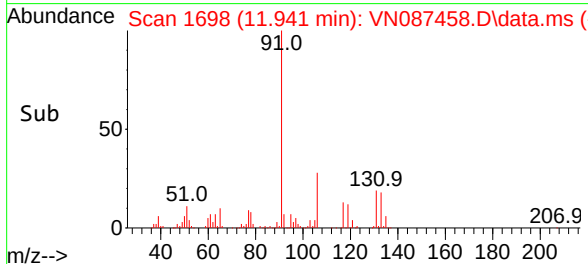
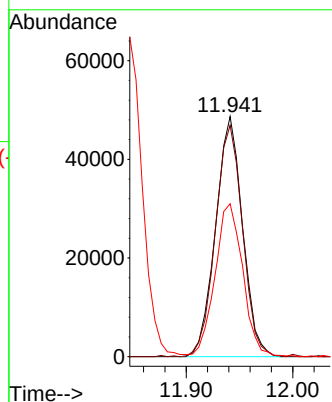
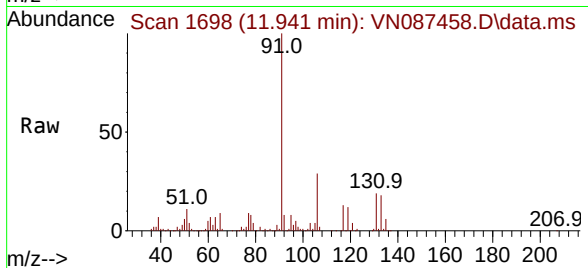




#65  
1,1,1,2-Tetrachloroethane  
Concen: 17.440 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

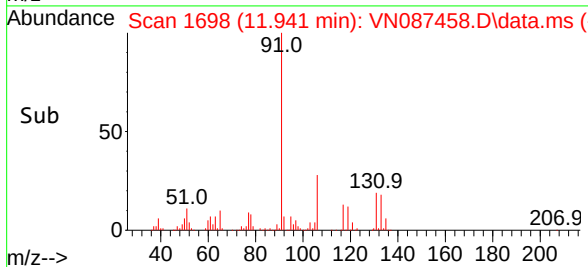
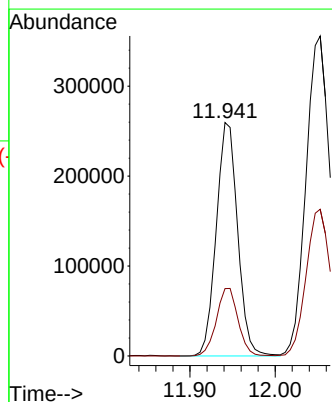
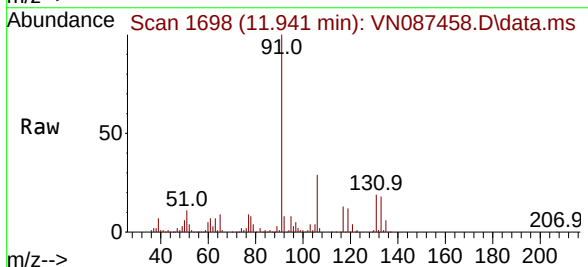
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

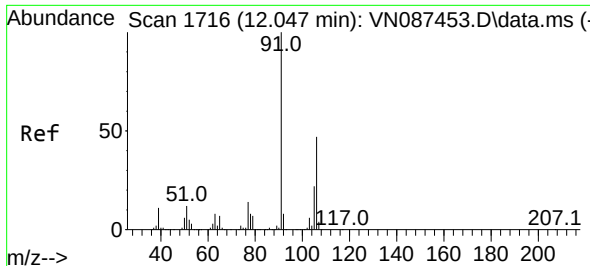
Tgt Ion:131 Resp: 85480  
Ion Ratio Lower Upper  
131 100  
133 97.1 0.0 189.8  
119 65.7 0.0 133.2



#66  
Ethyl Benzene  
Concen: 17.892 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 452435  
Ion Ratio Lower Upper  
91 100  
106 28.8 22.9 34.3

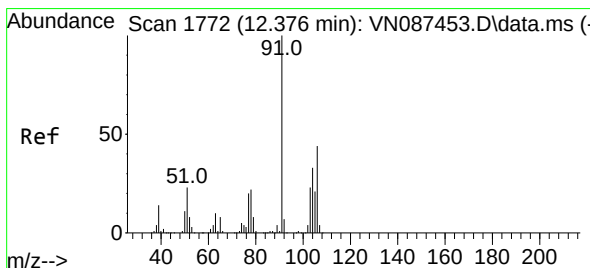
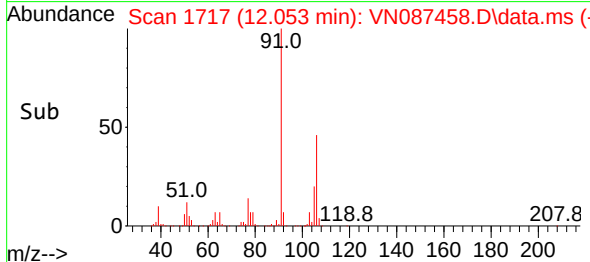
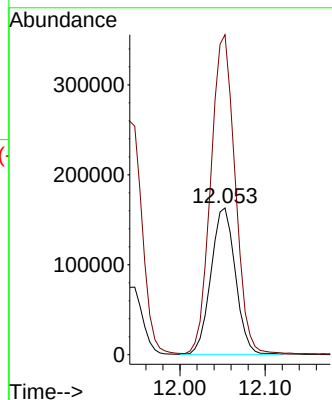
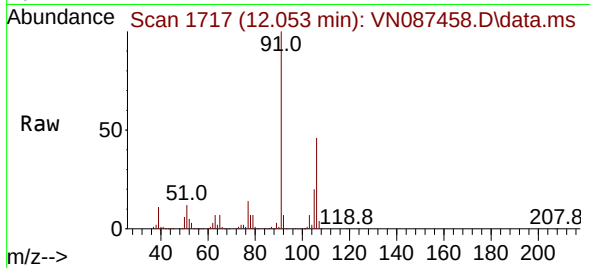




#67  
m/p-Xylenes  
Concen: 34.866 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

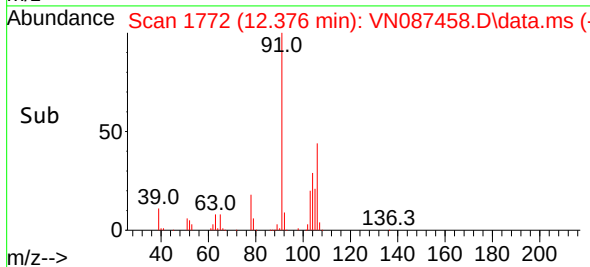
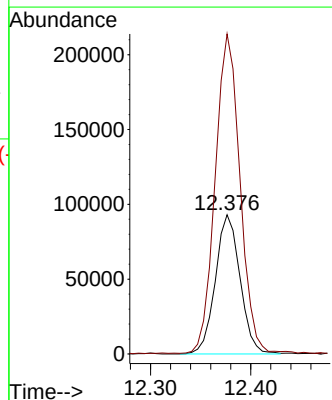
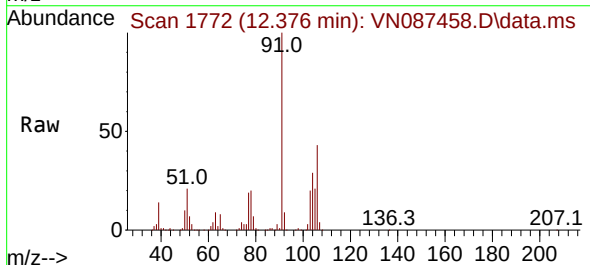
Instrument :  
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ClientSampleId :  
ICVVN080525

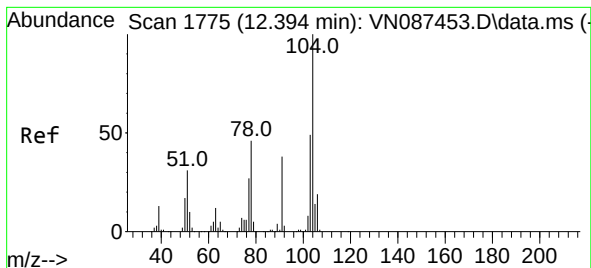
Tgt Ion:106 Resp: 323616  
Ion Ratio Lower Upper  
106 100  
91 217.8 174.2 261.2



#68  
o-Xylene  
Concen: 17.419 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:106 Resp: 159060  
Ion Ratio Lower Upper  
106 100  
91 229.5 114.5 343.5





#69

Styrene

Concen: 17.260 ug/l

RT: 12.394 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

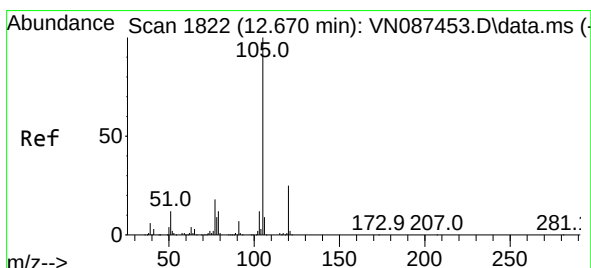
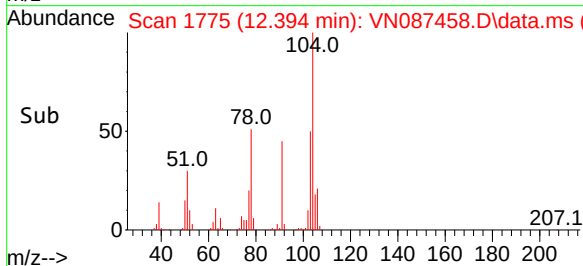
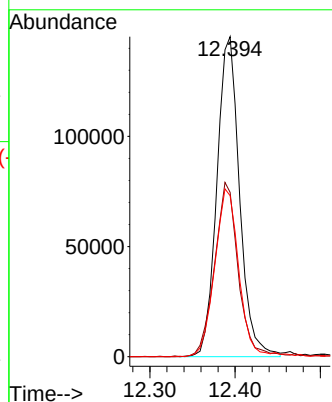
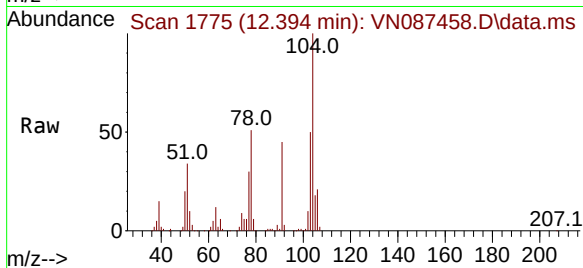
Tgt Ion:104 Resp: 269120

Ion Ratio Lower Upper

104 100

78 56.6 43.8 65.8

103 55.1 43.1 64.7



#70

Isopropylbenzene

Concen: 17.794 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087458.D

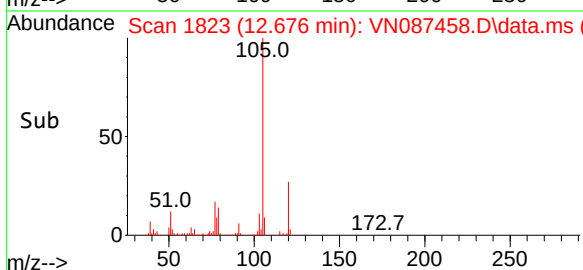
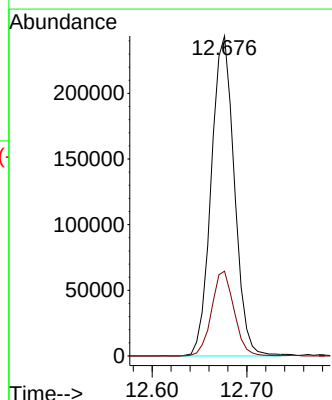
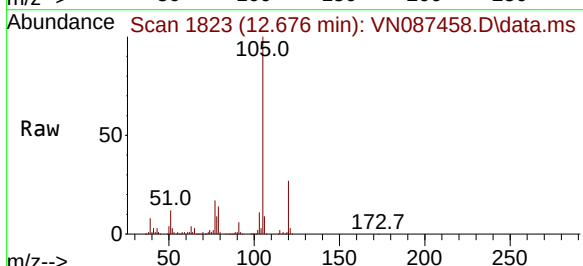
Acq: 05 Aug 2025 15:43

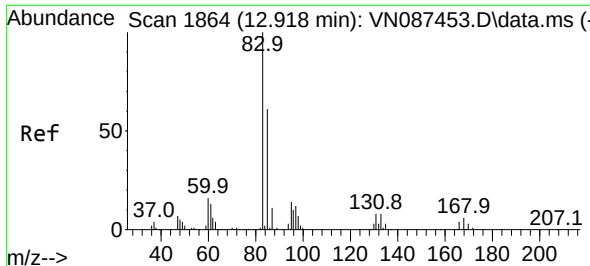
Tgt Ion:105 Resp: 412806

Ion Ratio Lower Upper

105 100

120 25.8 17.5 32.5

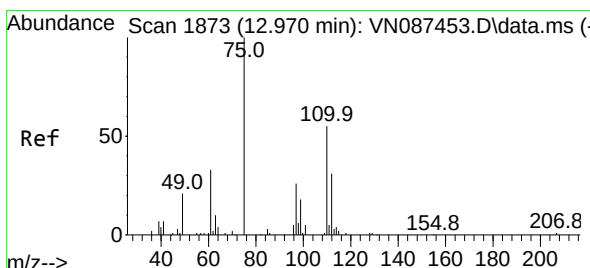
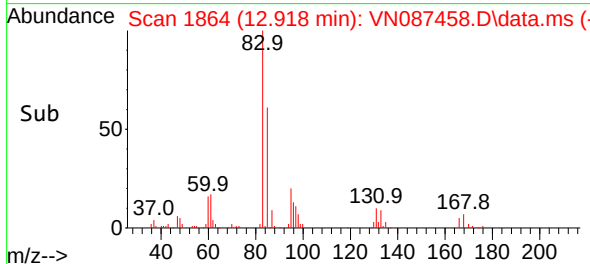
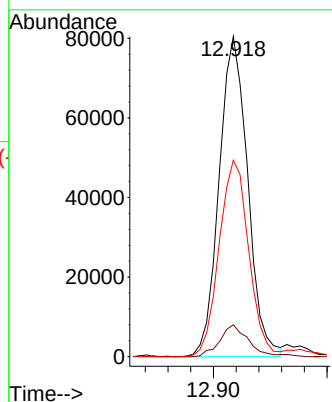
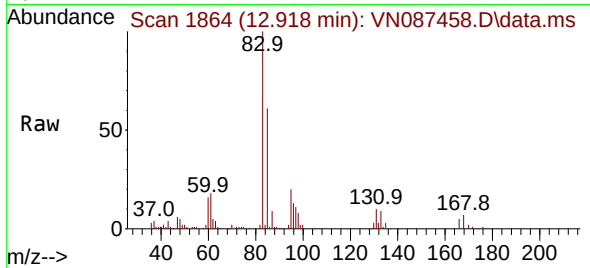




#71  
1,1,2,2-Tetrachloroethane  
Concen: 17.682 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

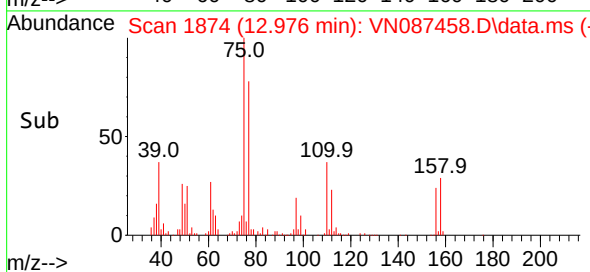
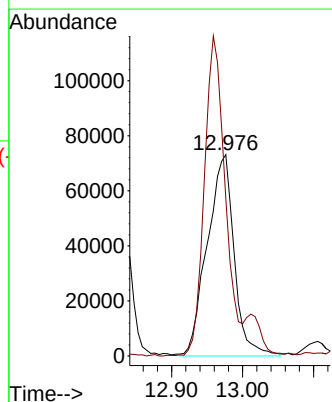
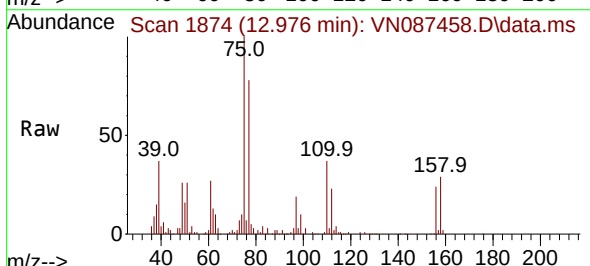
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

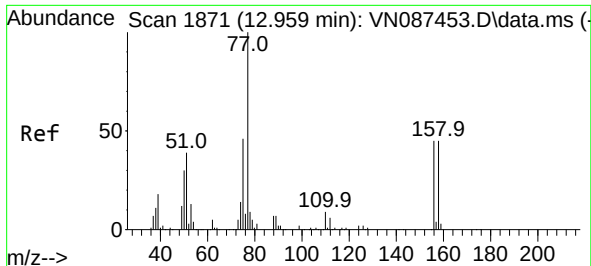
Tgt Ion: 83 Resp: 140546  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.3  
85 63.6 31.7 95.1



#72  
1,2,3-Trichloropropane  
Concen: 25.946 ug/l  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 75 Resp: 192129  
Ion Ratio Lower Upper  
75 100  
77 122.8 0.0 385.0

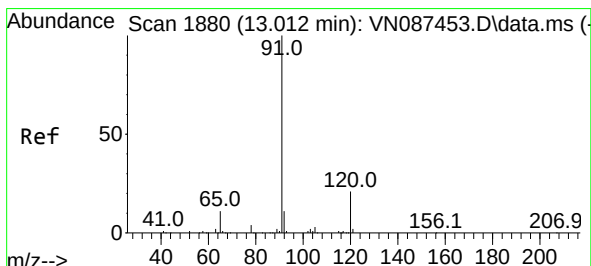
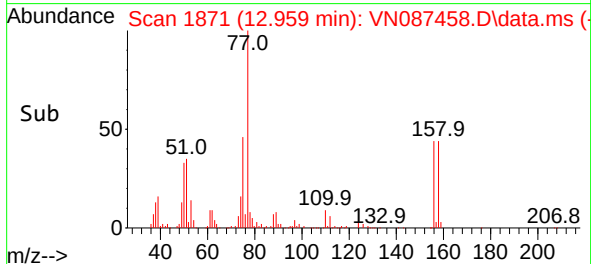
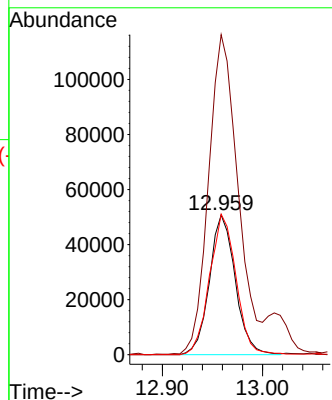
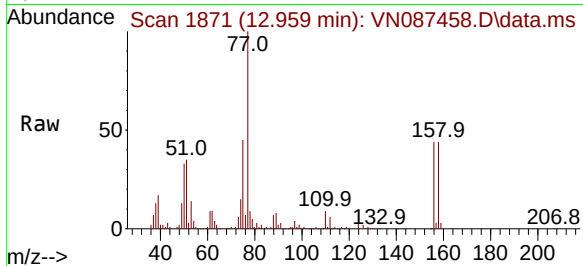




#73  
Bromobenzene  
Concen: 16.926 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

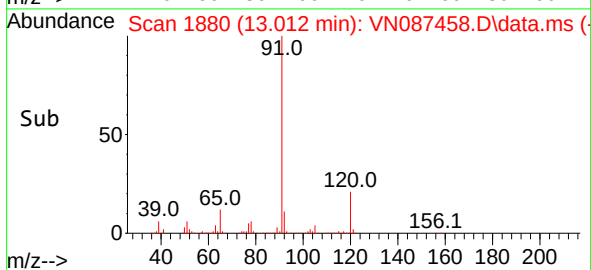
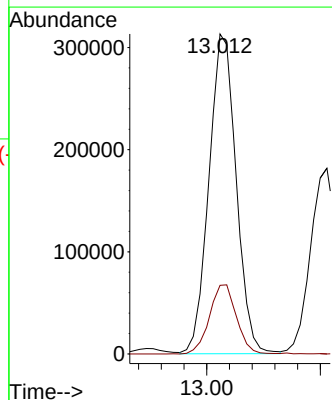
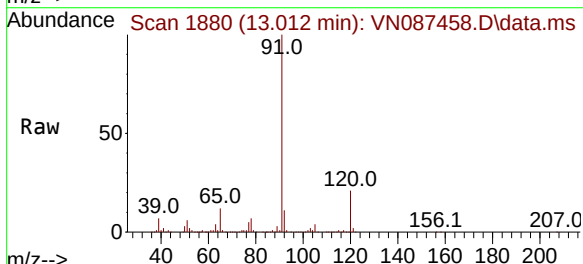
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

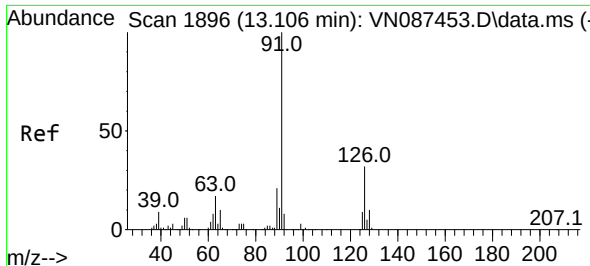
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 259.1 | 0.0   | 506.6 |
| 158     | 102.5 | 0.0   | 193.6 |



#74  
n-propylbenzene  
Concen: 17.991 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 21.4  | 0.0   | 41.8  |

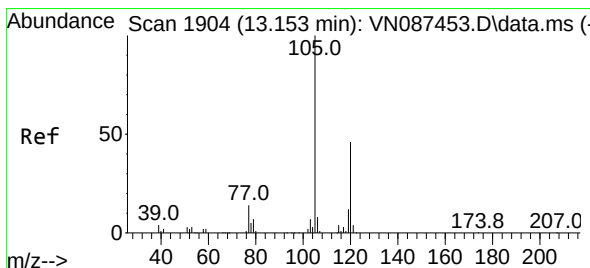
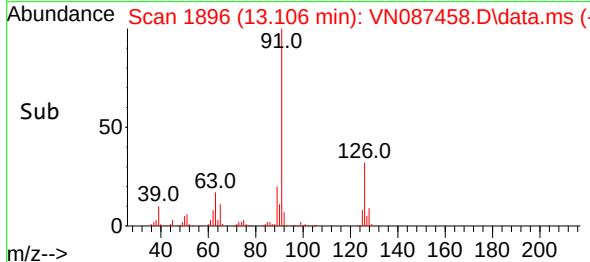
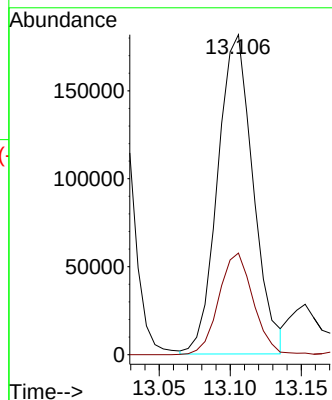
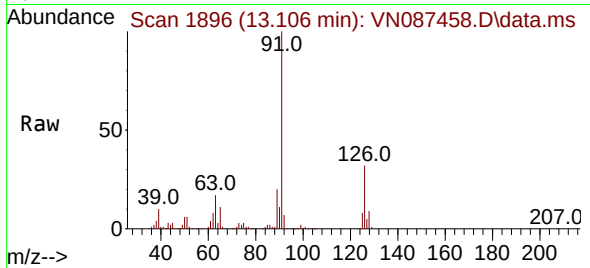




#75  
2-Chlorotoluene  
Concen: 17.717 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

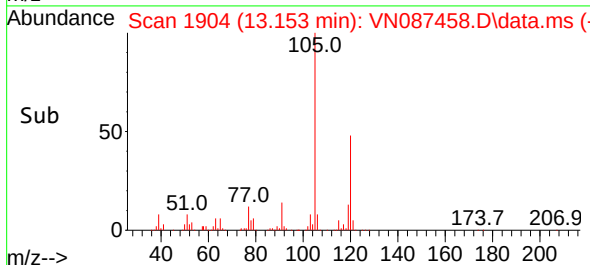
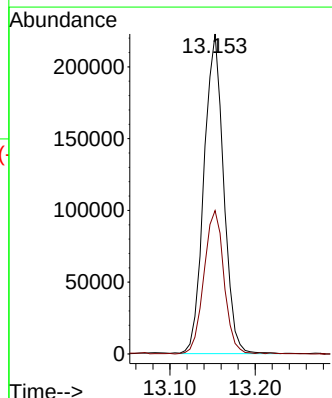
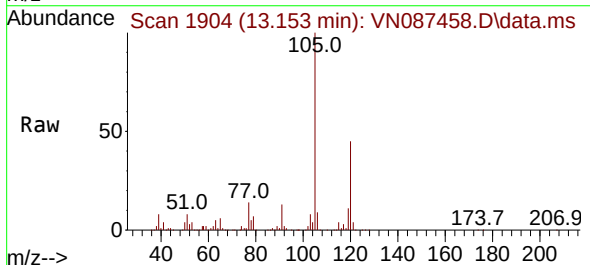
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

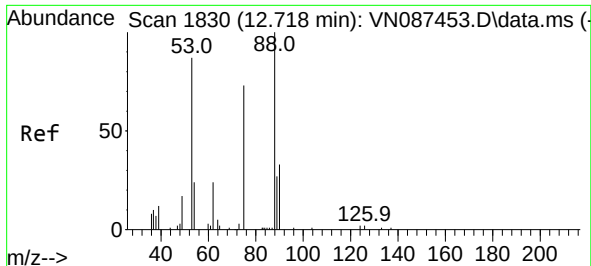
Tgt Ion: 91 Resp: 315743  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 17.960 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 105 Resp: 356748  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.2

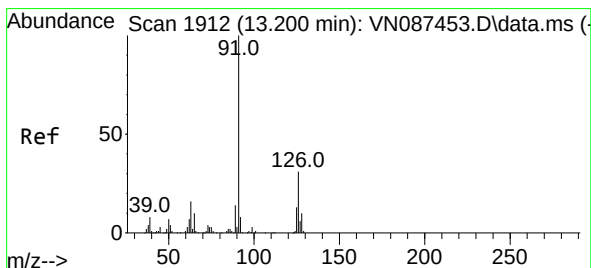
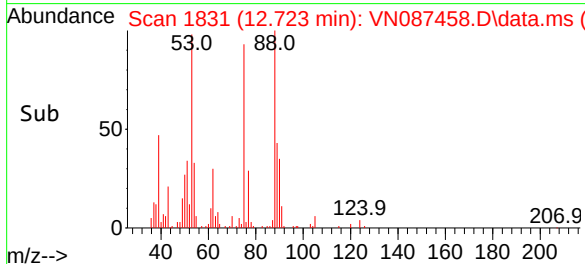
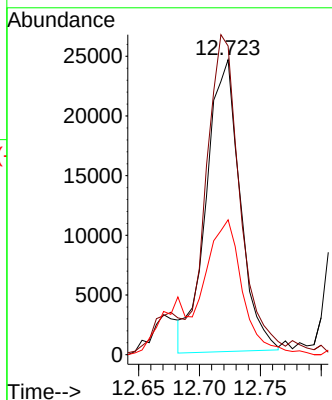
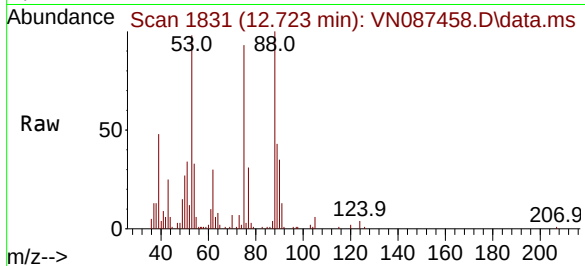




#77  
t-1,4-Dichloro-2-butene  
Concen: 16.855 ug/l  
RT: 12.723 min Scan# 1831  
Delta R.T. 0.006 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

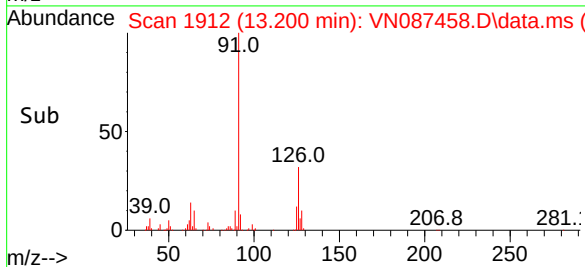
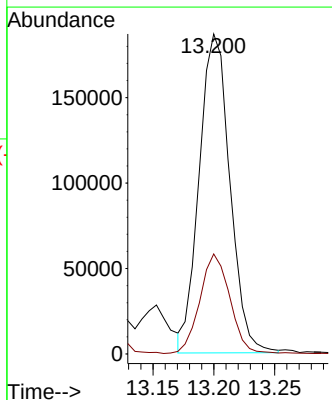
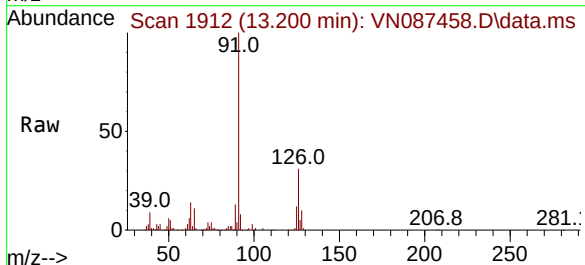
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

Tgt Ion: 75 Resp: 47247  
Ion Ratio Lower Upper  
75 100  
53 102.7 59.0 176.8  
89 44.1 22.1 66.5

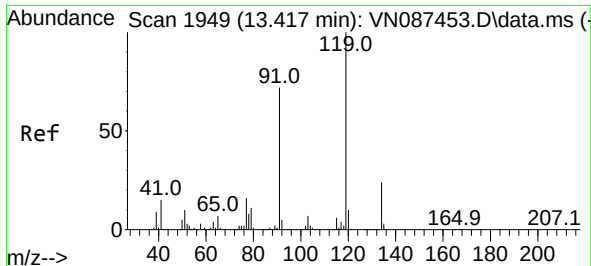


#78  
4-Chlorotoluene  
Concen: 18.142 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 327647  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 63.2



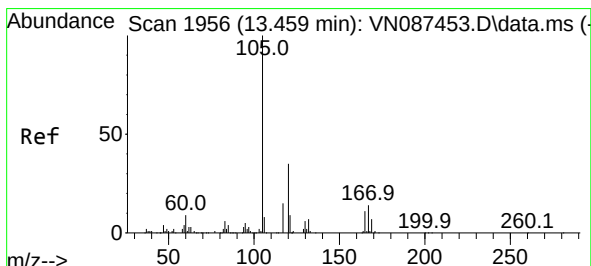
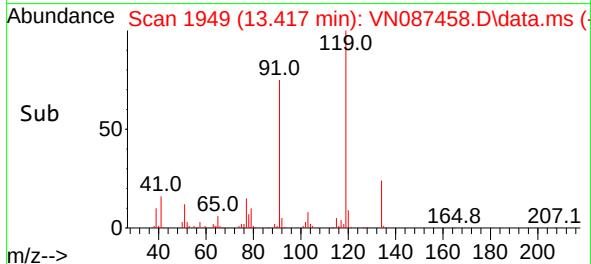
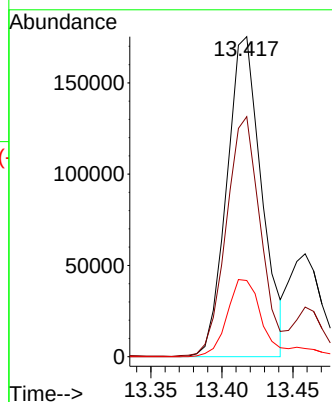
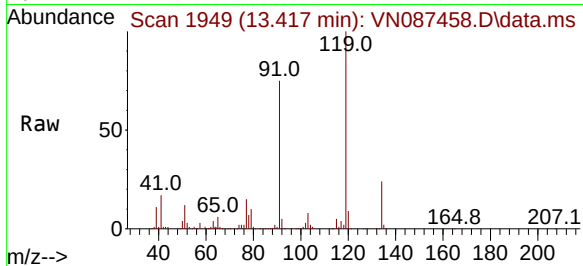




#79  
tert-butylbenzene  
Concen: 17.861 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

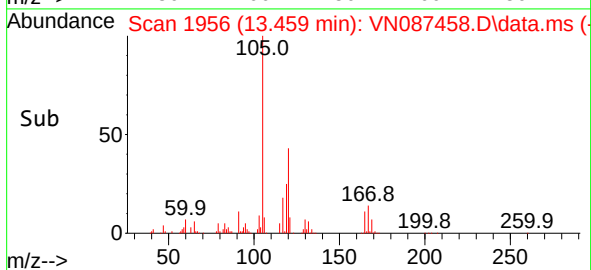
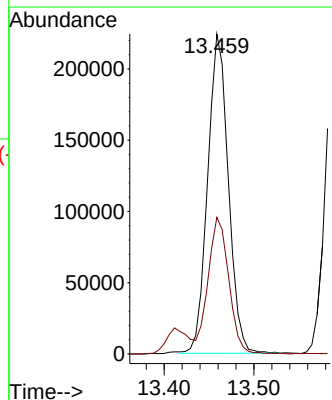
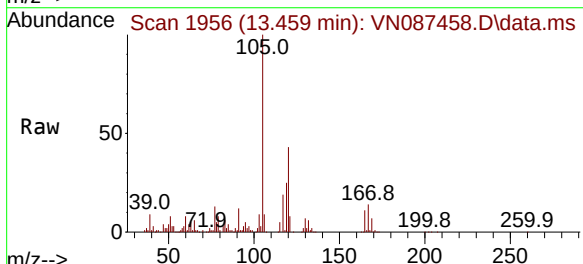
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

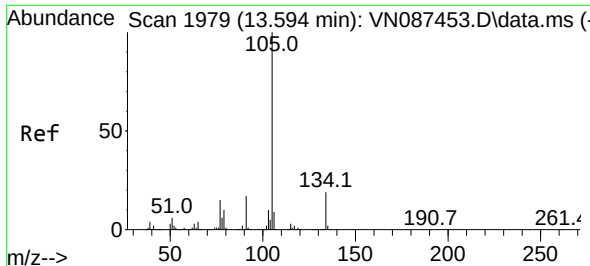
Tgt Ion:119 Resp: 299129  
Ion Ratio Lower Upper  
119 100  
91 73.3 0.0 141.6  
134 23.7 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 18.058 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:105 Resp: 358425  
Ion Ratio Lower Upper  
105 100  
120 42.2 0.0 87.2

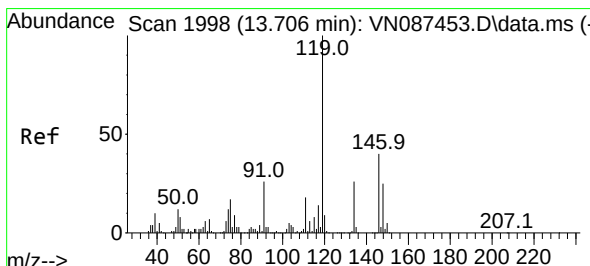
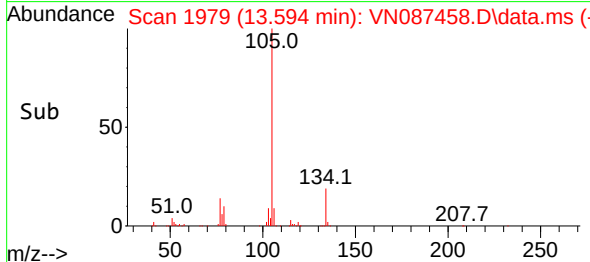
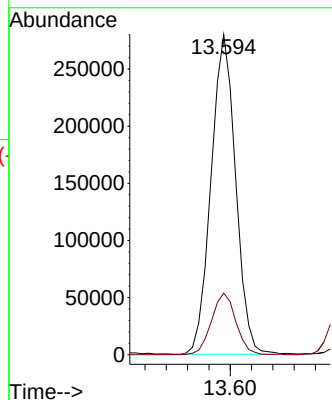
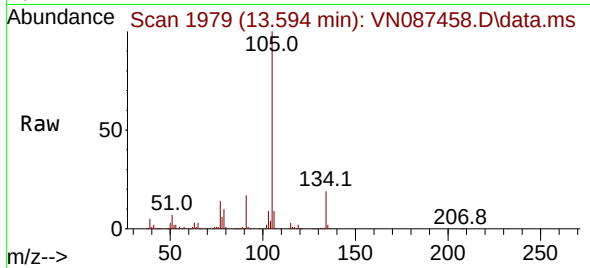




#81  
 sec-Butylbenzene  
 Concen: 18.364 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

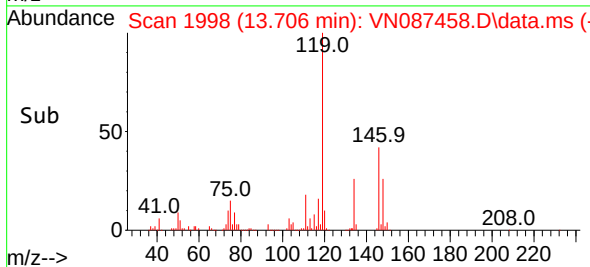
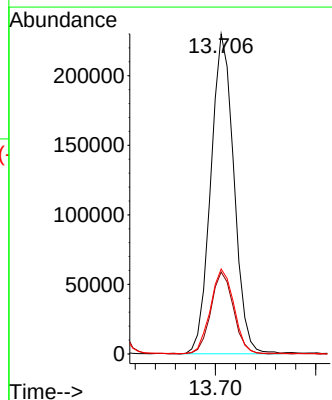
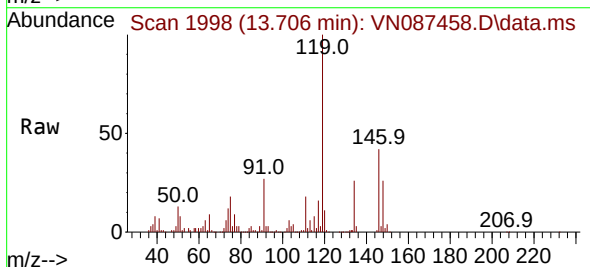
Instrument :  
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 ClientSampleId :  
 ICVVN080525

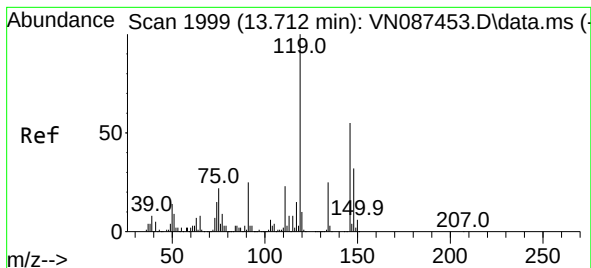
Tgt Ion:105 Resp: 447713  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 18.174 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087458.D  
 Acq: 05 Aug 2025 15:43

Tgt Ion:119 Resp: 367898  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 0.0 51.4  
 91 26.7 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 18.268 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

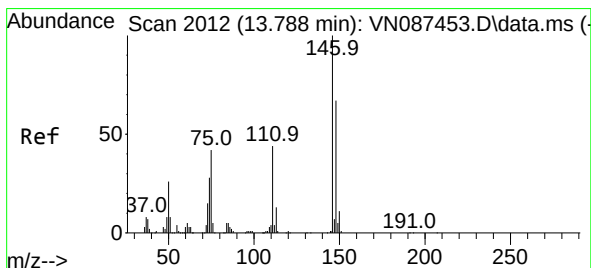
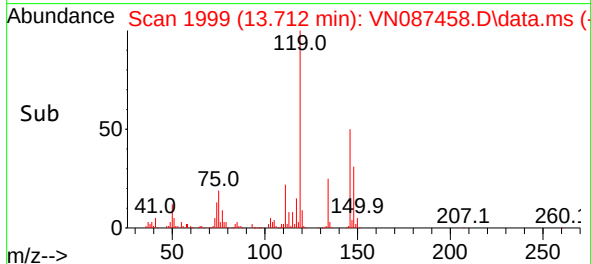
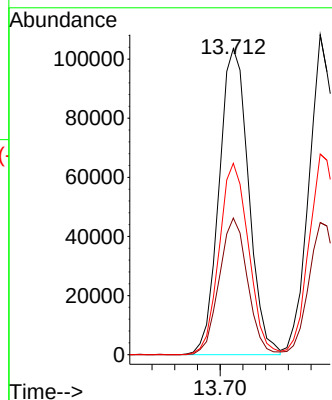
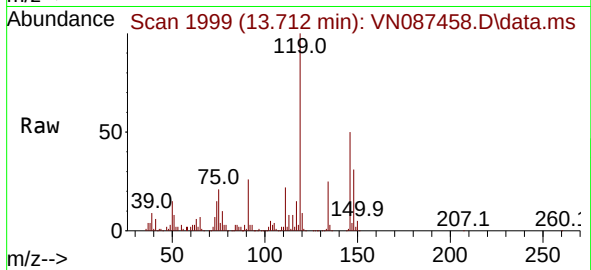
Tgt Ion:146 Resp: 187078

Ion Ratio Lower Upper

146 100

111 42.8 21.9 65.5

148 62.2 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 18.174 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

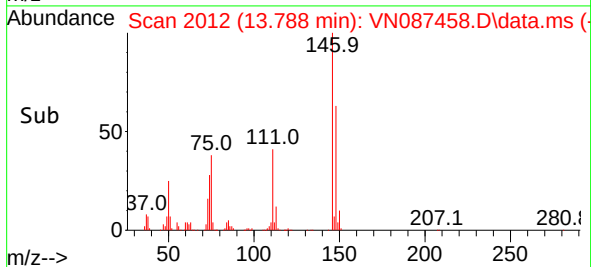
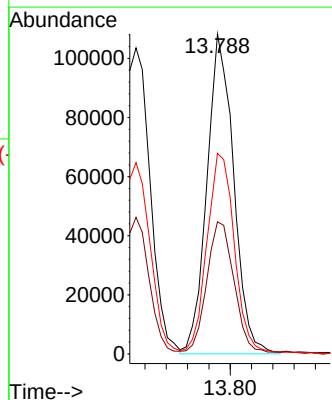
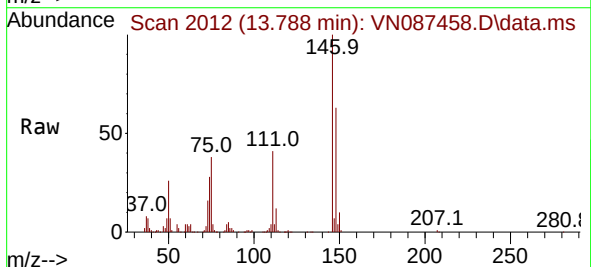
Tgt Ion:146 Resp: 188698

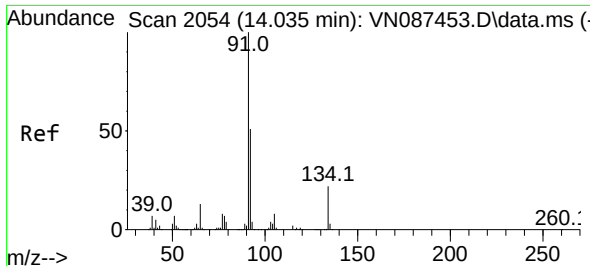
Ion Ratio Lower Upper

146 100

111 42.6 21.1 63.1

148 63.2 31.4 94.3

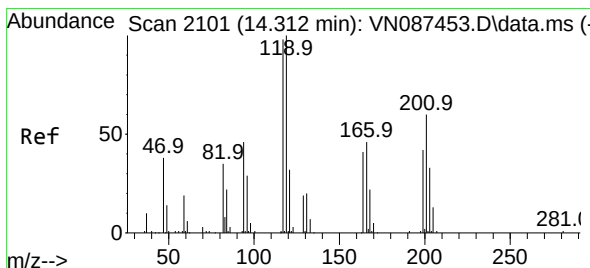
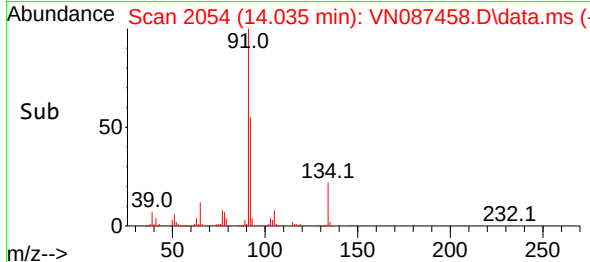
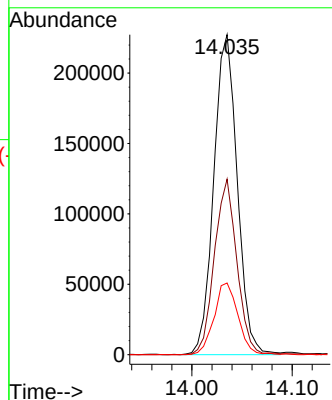
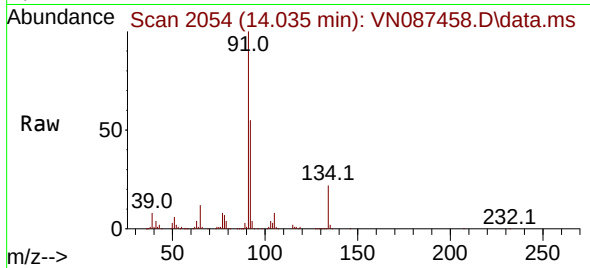




#85  
n-Butylbenzene  
Concen: 18.683 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

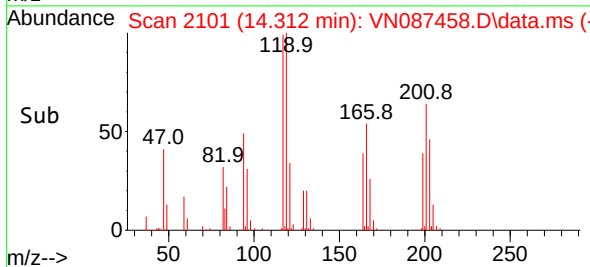
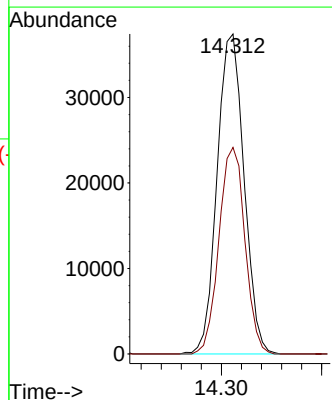
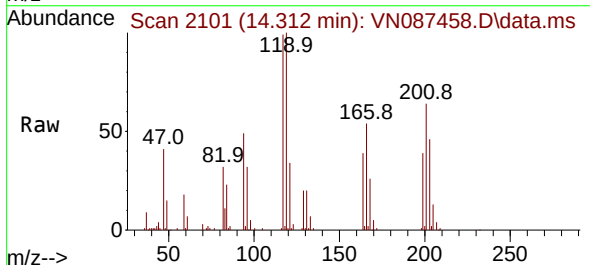
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

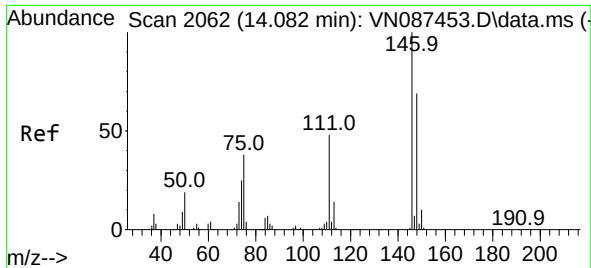
Tgt Ion: 91 Resp: 370033  
Ion Ratio Lower Upper  
91 100  
92 52.3 0.0 106.6  
134 22.7 0.0 44.4



#86  
Hexachloroethane  
Concen: 17.612 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 117 Resp: 69621  
Ion Ratio Lower Upper  
117 100  
201 62.2 29.1 87.4

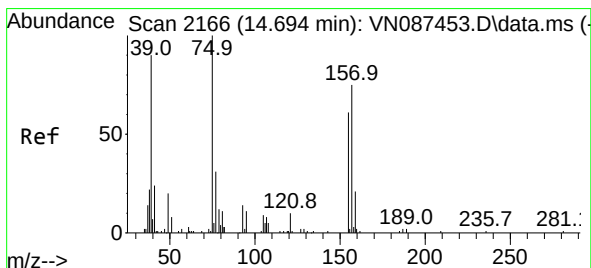
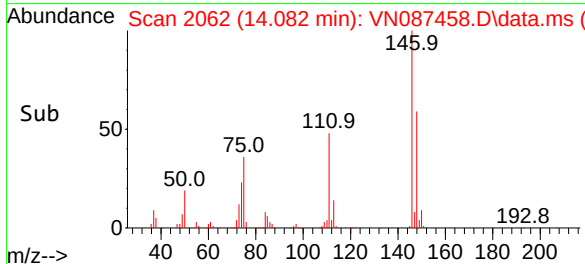
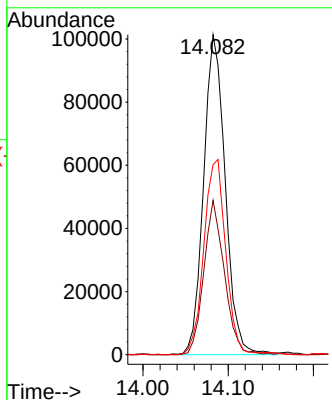
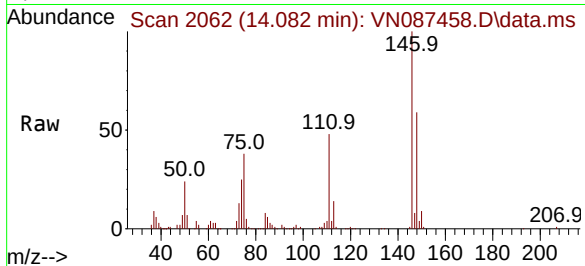




#87  
1,2-Dichlorobenzene  
Concen: 18.275 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

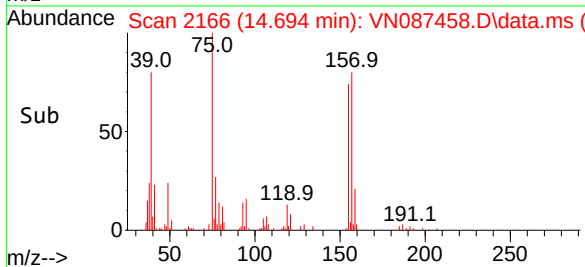
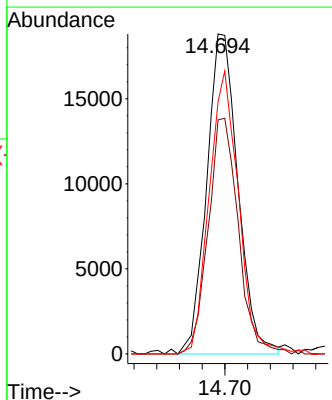
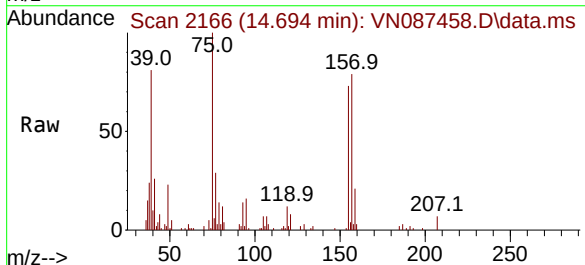
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

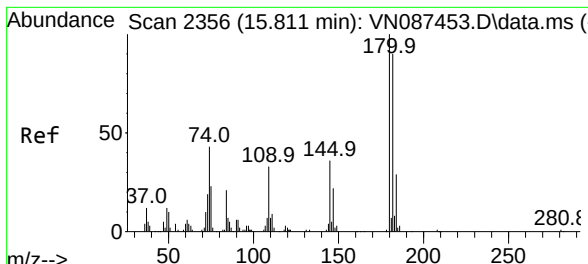
Tgt Ion:146 Resp: 178646  
Ion Ratio Lower Upper  
146 100  
111 45.4 22.9 68.7  
148 61.7 31.6 94.7



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 17.876 ug/l  
RT: 14.694 min Scan# 2166  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion: 75 Resp: 35995  
Ion Ratio Lower Upper  
75 100  
155 70.7 55.7 83.5  
157 83.1 65.8 98.6

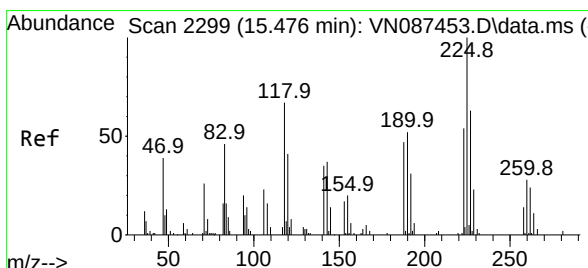
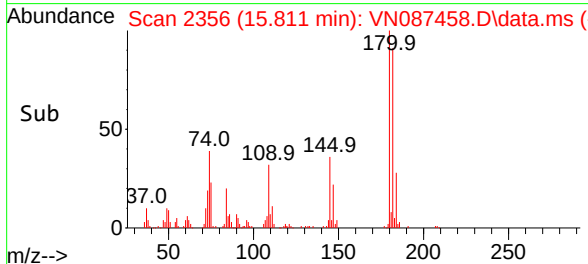
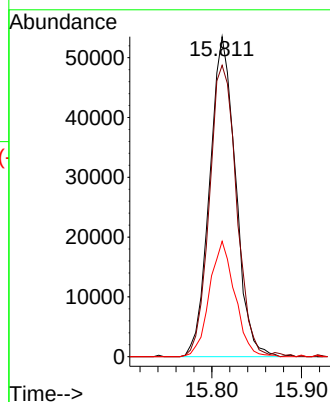
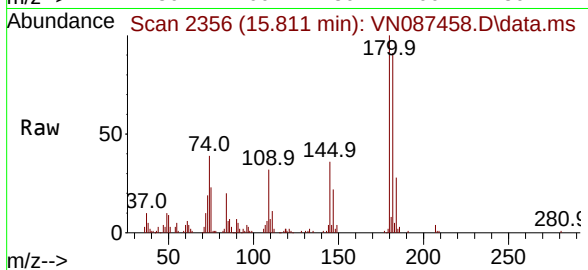




#89  
1,2,4-Trichlorobenzene  
Concen: 18.399 ug/l  
RT: 15.811 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

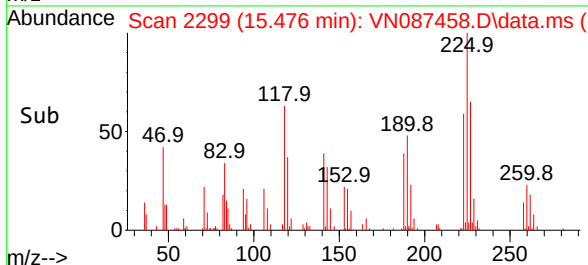
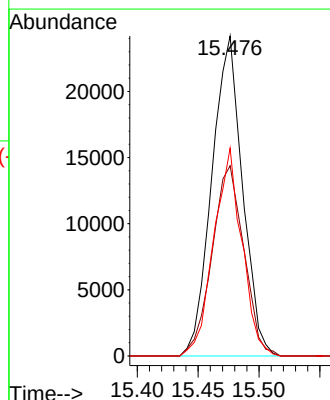
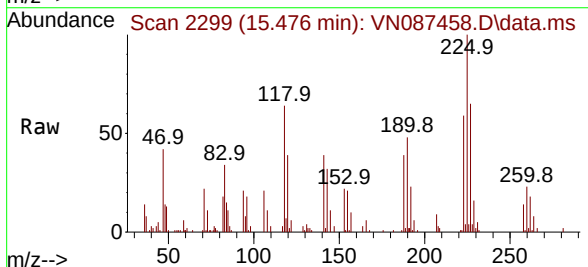
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN080525

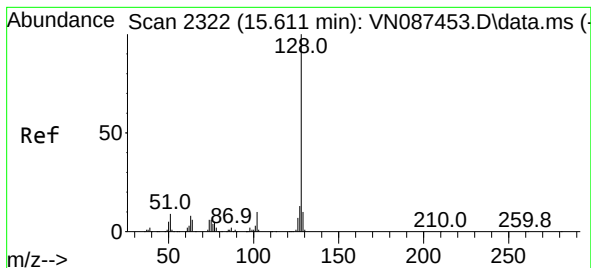
Tgt Ion:180 Resp: 107490  
Ion Ratio Lower Upper  
180 100  
182 94.7 75.0 112.4  
145 35.4 28.6 43.0



#90  
Hexachlorobutadiene  
Concen: 18.649 ug/l  
RT: 15.476 min Scan# 2299  
Delta R.T. 0.000 min  
Lab File: VN087458.D  
Acq: 05 Aug 2025 15:43

Tgt Ion:225 Resp: 42365  
Ion Ratio Lower Upper  
225 100  
223 61.8 0.0 116.0  
227 59.9 0.0 127.0





#91

Naphthalene

Concen: 18.174 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN080525

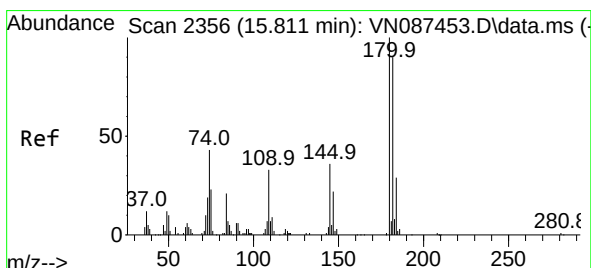
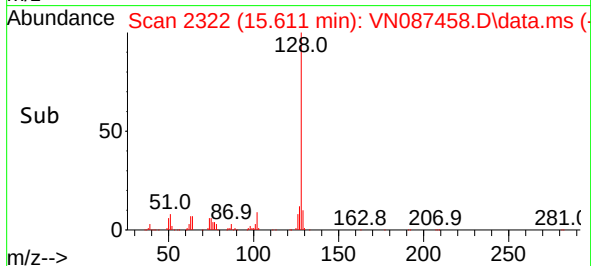
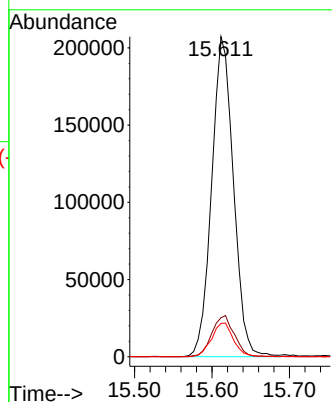
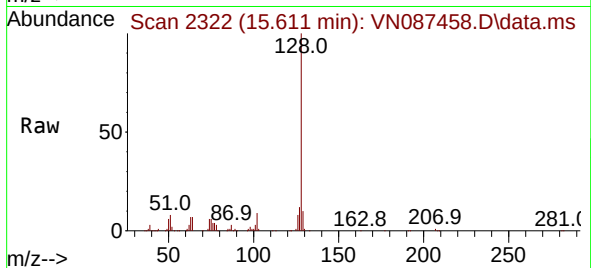
Tgt Ion:128 Resp: 404839

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 10.6 8.9 13.3



#92

1,2,3-Trichlorobenzene

Concen: 18.399 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

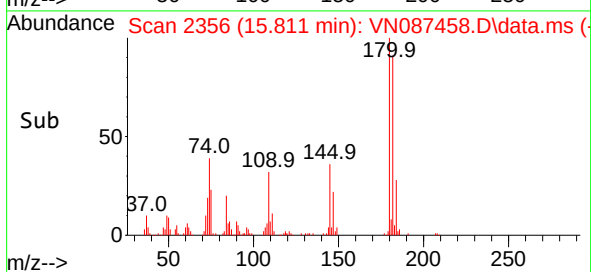
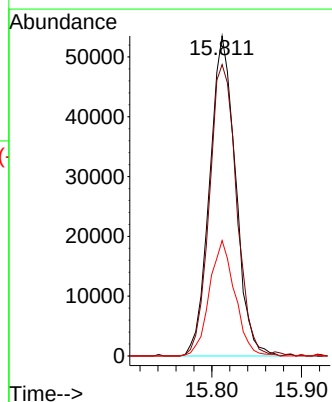
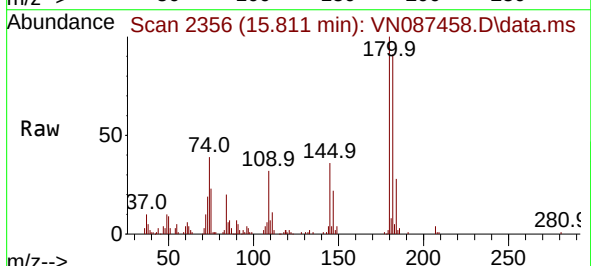
Tgt Ion:180 Resp: 107490

Ion Ratio Lower Upper

180 100

182 94.7 0.0 187.4

145 35.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.800  | 128   | 48350    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083  | 114   | 251837   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 230082   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 124569   | 27.933   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 93.100%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 115967   | 29.288   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 97.633%  |
| 63) Toluene-d8               | 10.547 | 98    | 321960   | 30.412   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 101.367% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 60133    | 19.049   | ug/l   | 94       |
| 3) Chloromethane             | 2.383  | 50    | 64019    | 19.766   | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.536  | 62    | 72293    | 21.045   | ug/l   | 95       |
| 5) Bromomethane              | 2.983  | 94    | 45165    | 24.291   | ug/l   | 84       |
| 6) Chloroethane              | 3.136  | 64    | 50084    | 22.610   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 106668   | 21.576   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965  | 74    | 42068    | 20.425   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 62284    | 24.706   | ug/l   | 89       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 58425    | 22.063   | ug/l   | 89       |
| 11) Methyl Iodide            | 4.577  | 142   | 32210    | 15.448   | ug/l   | 90       |
| 12) Methyl Acetate           | 5.024  | 43    | 110045   | 22.519   | ug/l   | 93       |
| 13) Acrolein                 | 4.171  | 56    | 70956    | 95.068   | ug/l   | 95       |
| 14) Acrylonitrile            | 5.706  | 53    | 199993   | 93.724   | ug/l   | 100      |
| 15) Acetone                  | 4.412  | 58    | 31337    | 51.398   | ug/l   | 92       |
| 16) Carbon Disulfide         | 4.700  | 76    | 151225   | 18.410   | ug/l   | 98       |
| 17) Allyl chloride           | 5.000  | 41    | 34239    | 6.344    | ug/l   | 90       |
| 18) Methylene Chloride       | 5.259  | 84    | 68053    | 19.962   | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 57873    | 18.378   | ug/l   | 95       |
| 20) Diisopropyl ether        | 6.653  | 45    | 228386   | 18.574   | ug/l # | 97       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 123208   | 19.385   | ug/l # | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 74107    | 19.126   | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 5.518  | 59    | 69925    | 77.117   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783  | 73    | 213810   | 17.719   | ug/l   | 98       |
| 25) Chloroform               | 7.947  | 83    | 132472   | 19.968   | ug/l   | 94       |
| 26) Cyclohexane              | 8.236  | 56    | 89474    | 17.583   | ug/l # | 93       |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 82459    | 20.075   | ug/l   | 99       |
| 30) 2-Butanone               | 7.465  | 43    | 293154   | 96.824   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 111592   | 21.065   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147  | 97    | 109005   | 20.808   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 89740    | 20.620   | ug/l   | 98       |
| 34) Benzene                  | 8.588  | 78    | 266751   | 20.573   | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.765  | 41    | 61968    | 18.966   | ug/l   | 91       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 106474   | 20.317   | ug/l   | 98       |
| 37) Trichloroethene          | 9.335  | 130   | 59328    | 20.772   | ug/l   | 84       |
| 38) Methylcyclohexane        | 9.582  | 83    | 86646    | 18.183   | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 71262    | 21.436   | ug/l   | 99       |
| 40) Dibromomethane           | 9.688  | 93    | 50310    | 20.170   | ug/l   | 90       |
| 41) Bromodichloromethane     | 9.865  | 83    | 105844   | 20.422   | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.589  | 43    | 1025271  | 102.828  | ug/l   | 98       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

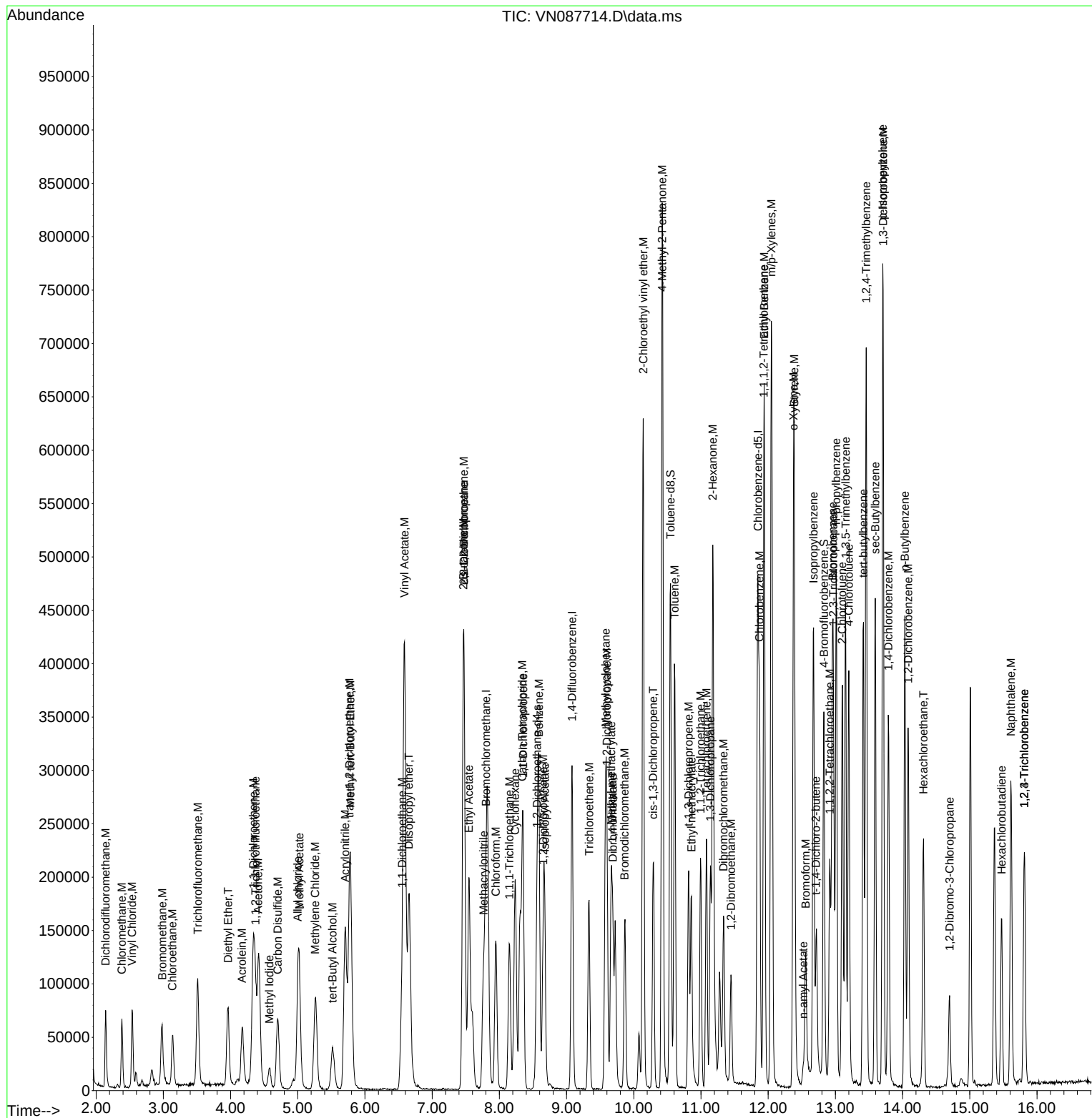
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 119575   | 20.443  | ug/l   | 94       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 186772   | 18.837  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.682  | 88   | 20336    | 321.735 | ug/l # | 86       |
| 46) Methyl methacrylate       | 9.665  | 41   | 86691    | 18.523  | ug/l   | 94       |
| 47) n-amyl Acetate            | 12.523 | 43   | 9924     | 1.812   | ug/l # | 76       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 109981   | 19.505  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 113989   | 20.087  | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 69590    | 22.082  | ug/l   | 95       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 102364   | 18.444  | ug/l   | 89       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 119980   | 21.132  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 74495    | 20.469  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 67426    | 20.155  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 271527   | 92.933  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 46759    | 19.424  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 587862   | 99.321  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 384434   | 95.594  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 47545    | 21.211  | ug/l   | 96       |
| 62) Toluene                   | 10.606 | 91   | 290343   | 20.446  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 181508   | 20.801  | ug/l   | 94       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 65246    | 21.267  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 312337   | 19.733  | ug/l   | 96       |
| 67) m/p-Xylenes               | 12.047 | 106  | 234213   | 40.313  | ug/l   | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 107889   | 18.876  | ug/l   | 98       |
| 69) Styrene                   | 12.388 | 104  | 190079   | 19.476  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 284145   | 19.568  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 108523   | 21.812  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 137388   | 29.641  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 67183    | 19.958  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 371779   | 20.500  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 217479   | 19.495  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 247884   | 19.937  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.712 | 75   | 31232    | 17.800  | ug/l   | 77       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 227394   | 20.115  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 203826   | 19.444  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 250626   | 20.173  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 308192   | 20.195  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 250110   | 19.739  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 136995   | 21.371  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 142283   | 21.893  | ug/l   | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 248913   | 20.078  | ug/l   | 97       |
| 86) Hexachloroethane          | 14.312 | 117  | 50886    | 20.565  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 130330   | 21.300  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 22682    | 17.995  | ug/l   | 89       |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 72588    | 19.850  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 25695    | 18.070  | ug/l   | 83       |
| 91) Naphthalene               | 15.612 | 128  | 266009   | 19.078  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 72588    | 19.850  | ug/l   | 99       |

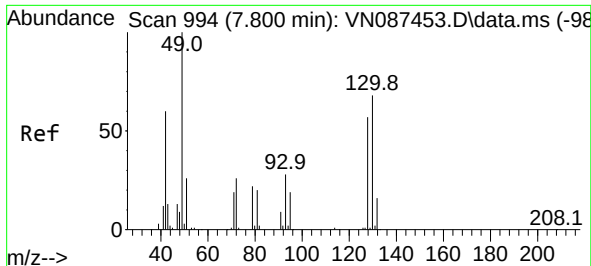
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Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087714.D  
 Acq On : 04 Sep 2025 10:54  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

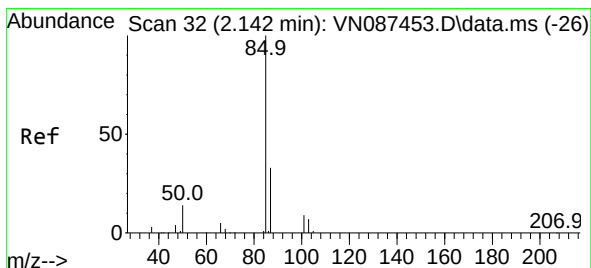
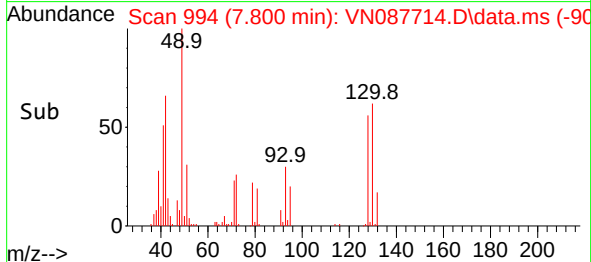
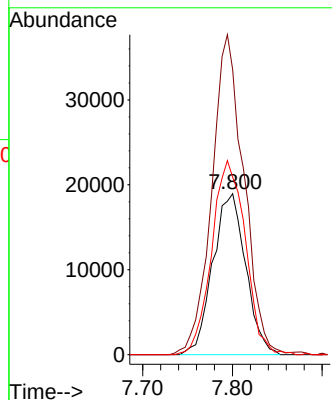
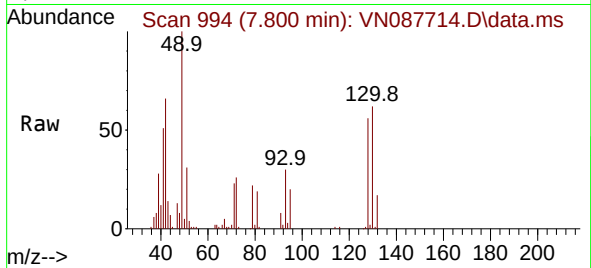




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

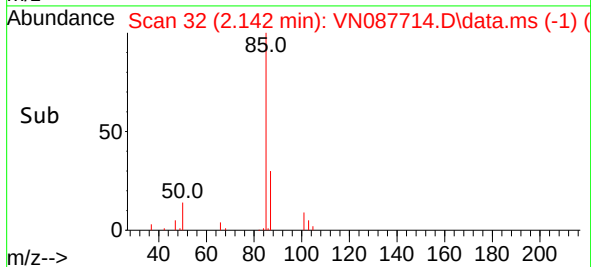
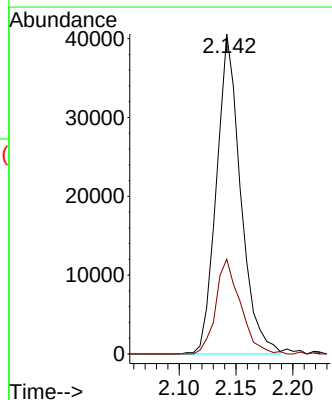
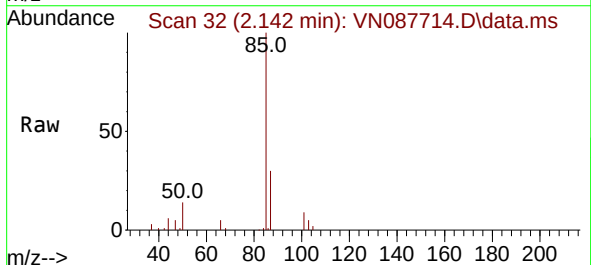
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

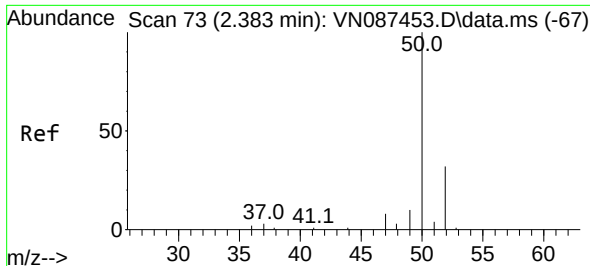
Tgt Ion:128 Resp: 48350  
Ion Ratio Lower Upper  
128 100  
49 192.8 0.0 494.8  
130 122.7 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 19.049 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 85 Resp: 60133  
Ion Ratio Lower Upper  
85 100  
87 29.7 16.4 49.2

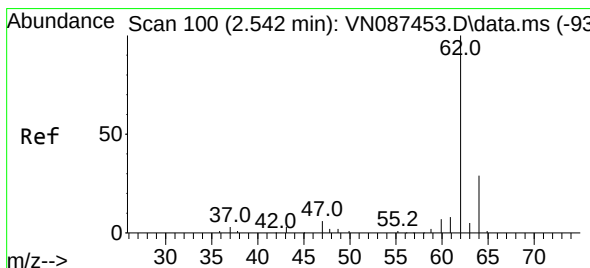
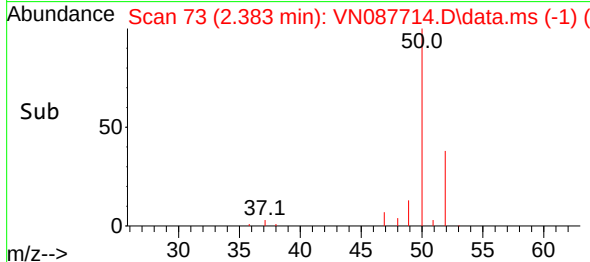
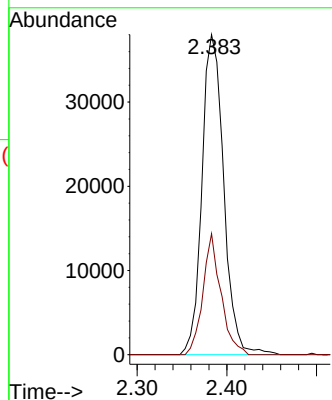
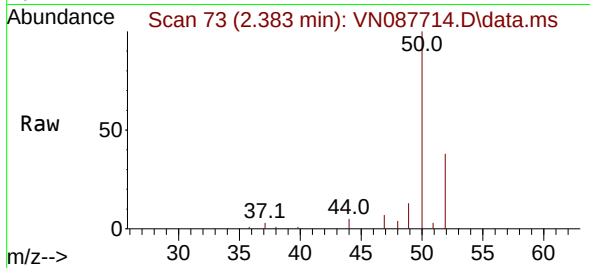




#3  
Chloromethane  
Concen: 19.766 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

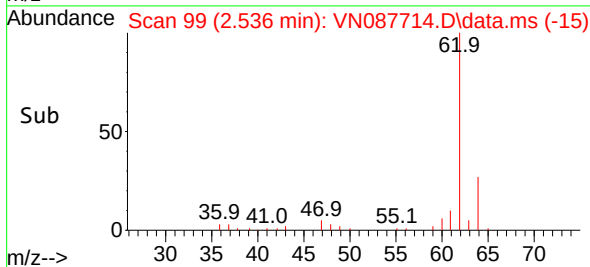
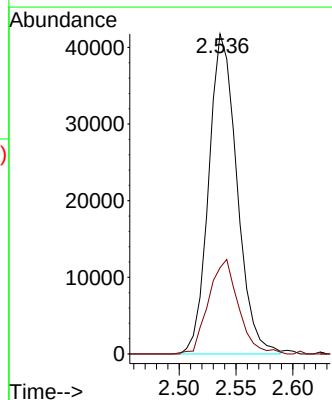
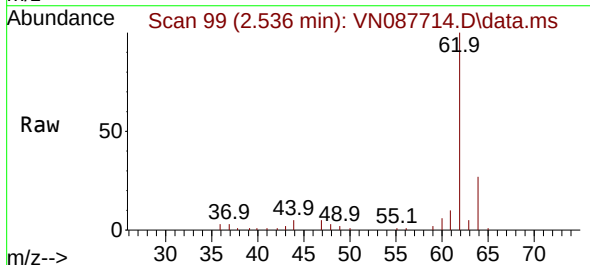
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

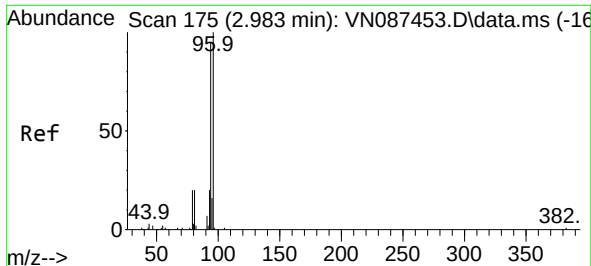
Tgt Ion: 50 Resp: 64019  
Ion Ratio Lower Upper  
50 100  
52 37.8 25.8 38.6



#4  
Vinyl Chloride  
Concen: 21.045 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 62 Resp: 72293  
Ion Ratio Lower Upper  
62 100  
64 26.6 23.4 35.2

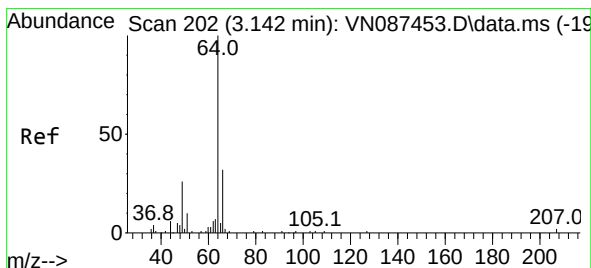
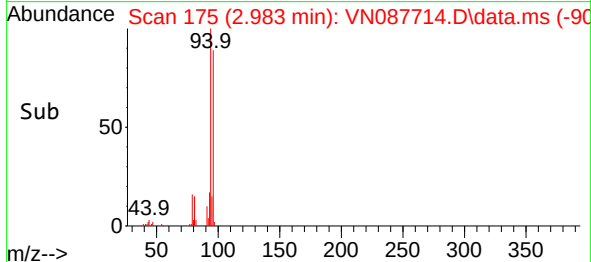
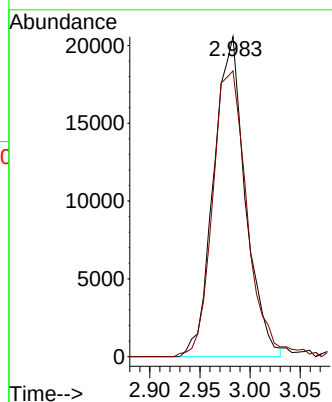
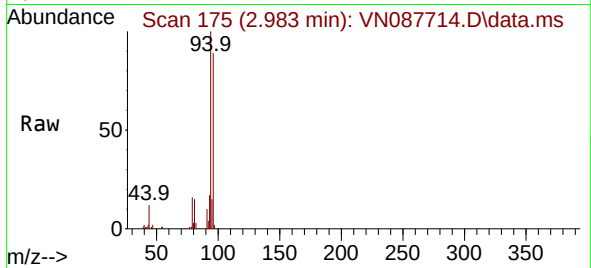




#5  
Bromomethane  
Concen: 24.291 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

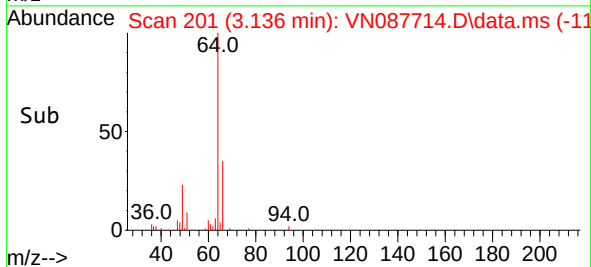
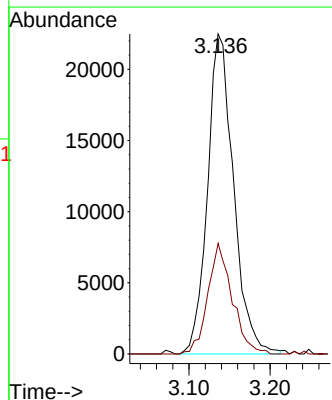
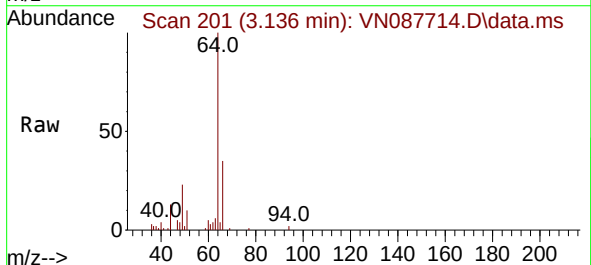
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

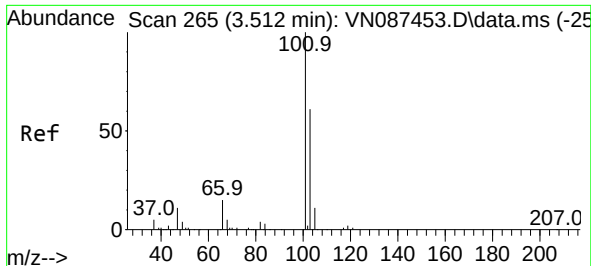
Tgt Ion: 94 Resp: 45165  
Ion Ratio Lower Upper  
94 100  
96 88.3 84.2 126.4



#6  
Chloroethane  
Concen: 22.610 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 64 Resp: 50084  
Ion Ratio Lower Upper  
64 100  
66 34.6 25.4 38.0

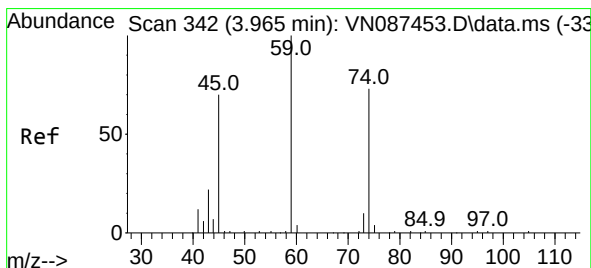
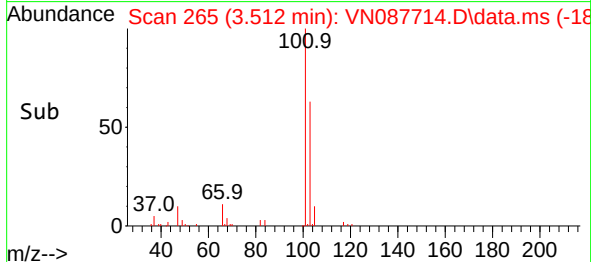
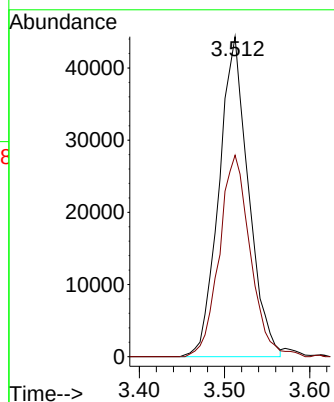
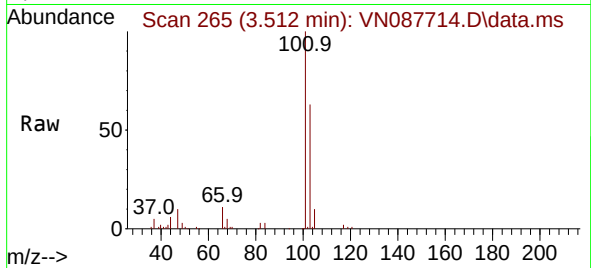




#7  
 Trichlorofluoromethane  
 Concen: 21.576 ug/l  
 RT: 3.512 min Scan# 265  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

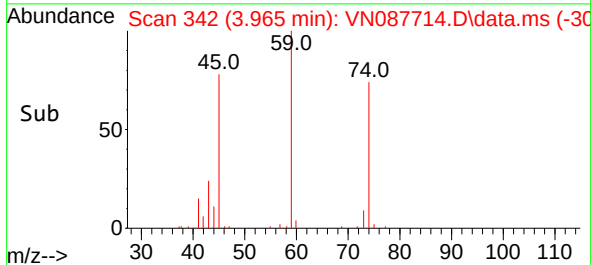
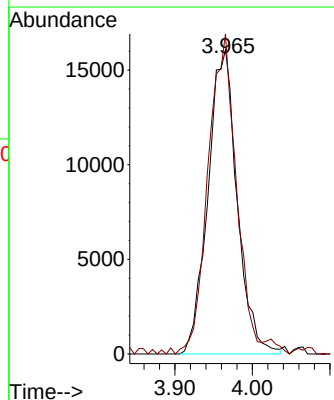
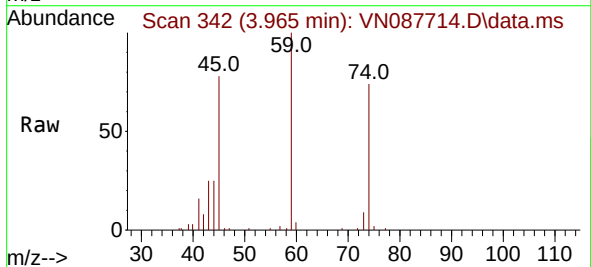
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

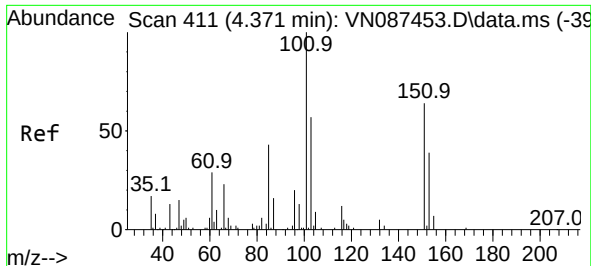
Tgt Ion:101 Resp: 106668  
 Ion Ratio Lower Upper  
 101 100  
 103 62.9 49.2 73.8



#8  
 Diethyl Ether  
 Concen: 20.425 ug/l  
 RT: 3.965 min Scan# 342  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 74 Resp: 42068  
 Ion Ratio Lower Upper  
 74 100  
 45 101.4 20.1 180.9

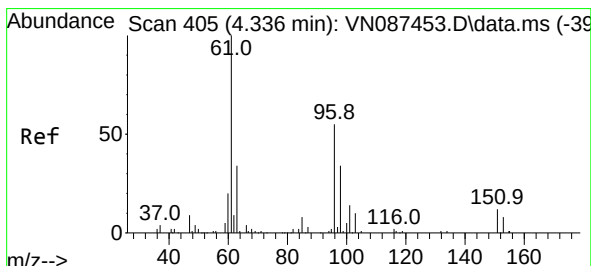
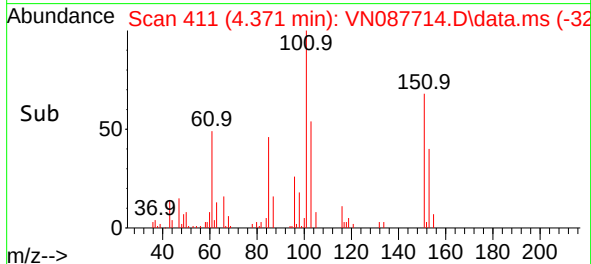
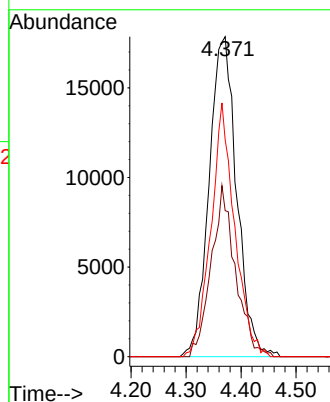
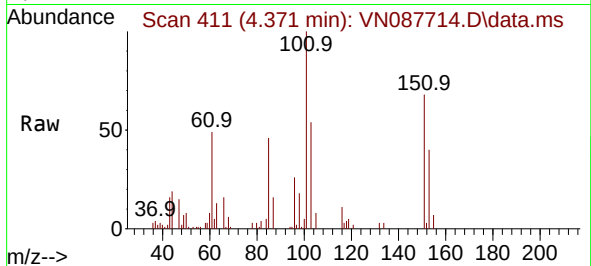




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 24.706 ug/l  
 RT: 4.371 min Scan# 411  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

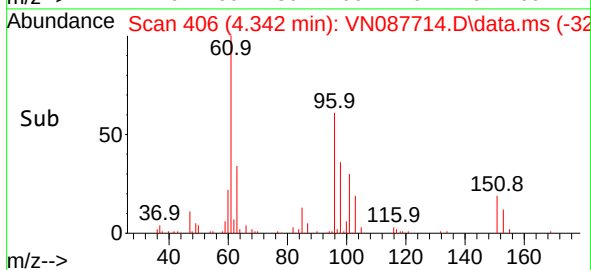
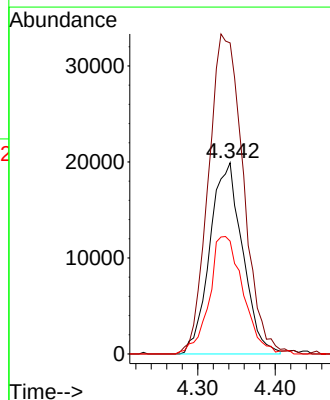
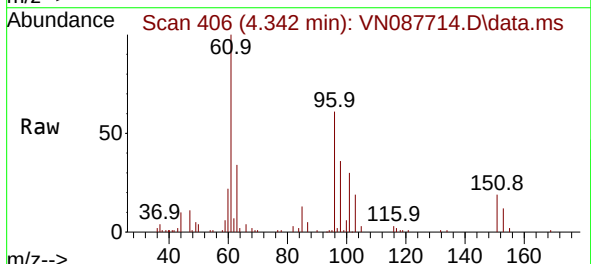
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

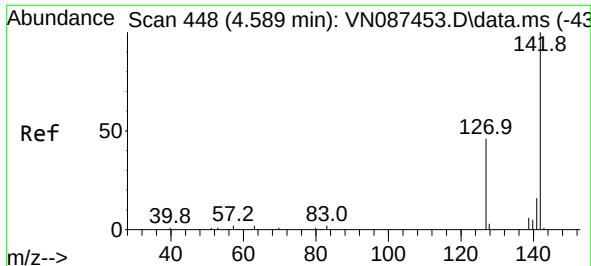
Tgt Ion:101 Resp: 62284  
 Ion Ratio Lower Upper  
 101 100  
 85 46.2 0.0 57.0  
 151 68.1 0.0 134.2



#10  
 1,1-Dichloroethene  
 Concen: 22.063 ug/l  
 RT: 4.342 min Scan# 406  
 Delta R.T. 0.006 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 96 Resp: 58425  
 Ion Ratio Lower Upper  
 96 100  
 61 161.7 144.2 216.4  
 98 57.8 49.7 74.5

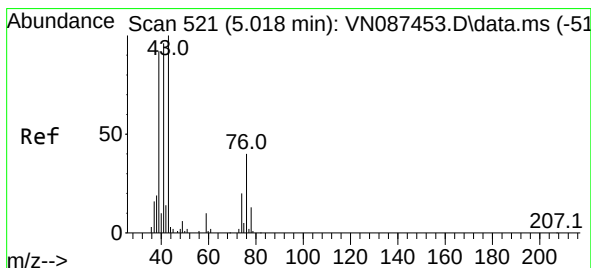
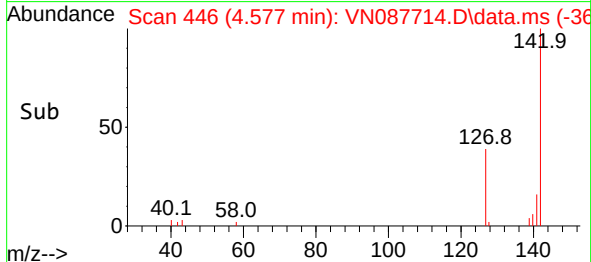
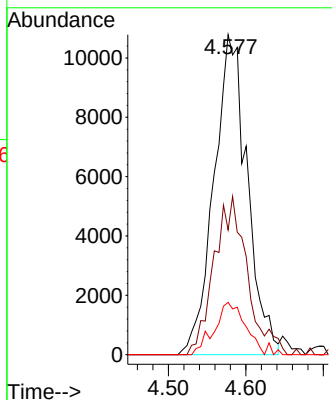
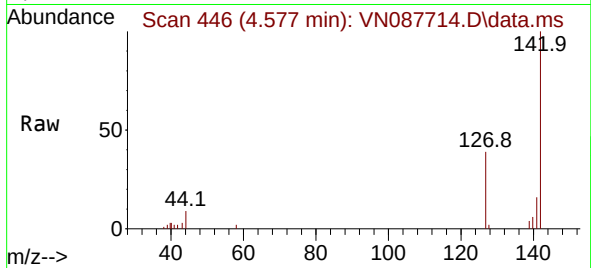




#11  
Methyl Iodide  
Concen: 15.448 ug/l  
RT: 4.577 min Scan# 448  
Delta R.T. -0.012 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

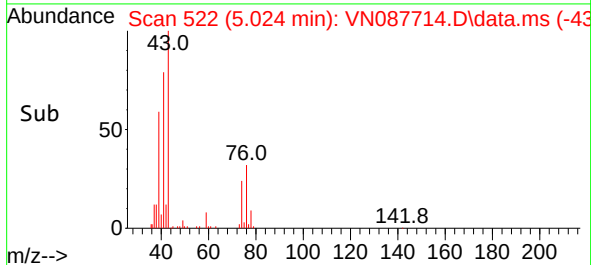
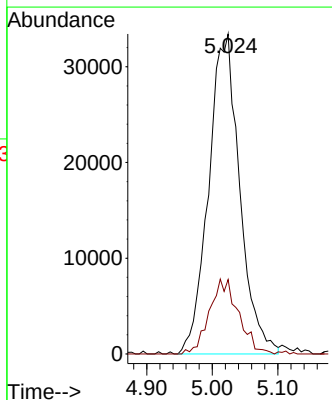
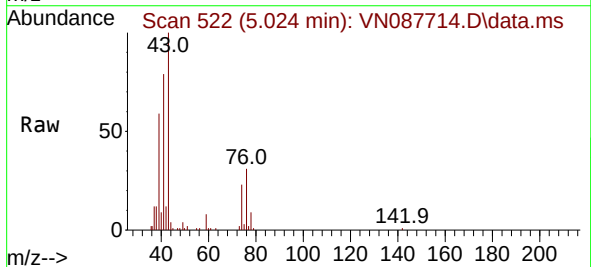
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:142 Resp: 32210  
Ion Ratio Lower Upper  
142 100  
127 37.1 22.9 68.7  
141 15.8 7.7 23.1

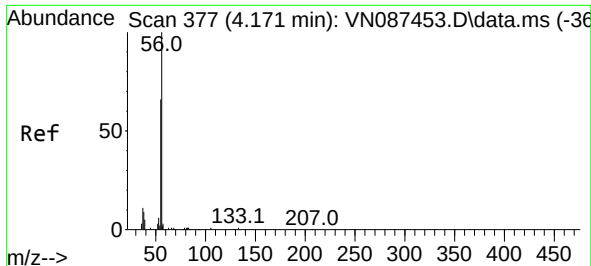


#12  
Methyl Acetate  
Concen: 22.519 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 110045  
Ion Ratio Lower Upper  
43 100  
74 23.1 16.0 24.0



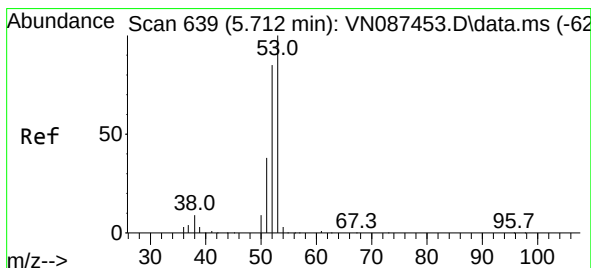
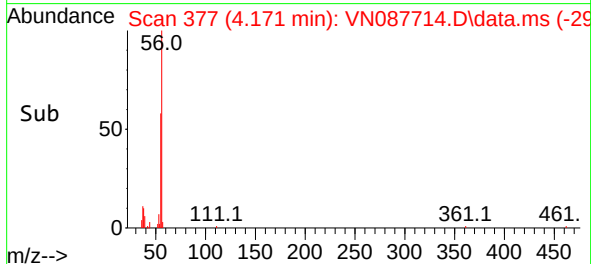
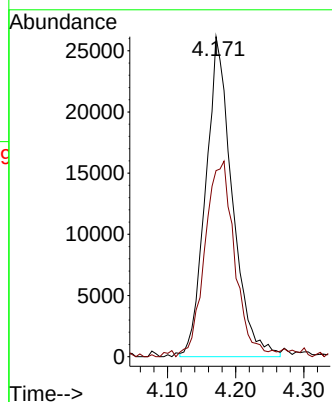
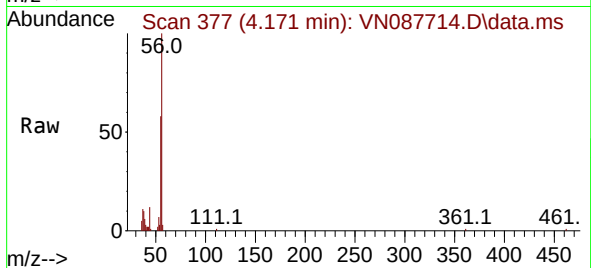




#13  
Acrolein  
Concen: 95.068 ug/l  
RT: 4.171 min Scan# 377  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

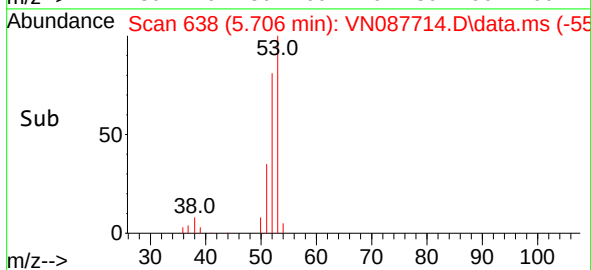
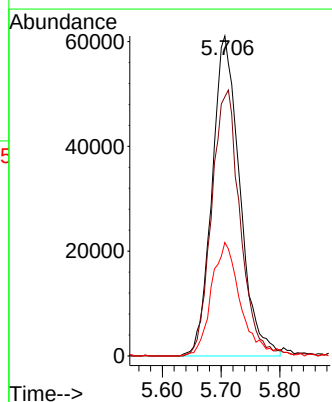
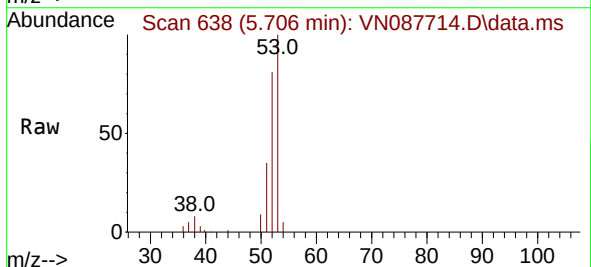
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

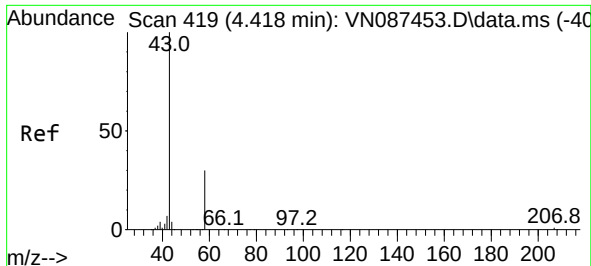
Tgt Ion: 56 Resp: 70956  
Ion Ratio Lower Upper  
56 100  
55 67.9 57.4 86.0



#14  
Acrylonitrile  
Concen: 93.724 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 53 Resp: 199993  
Ion Ratio Lower Upper  
53 100  
52 84.6 42.4 127.2  
51 36.6 18.5 55.5

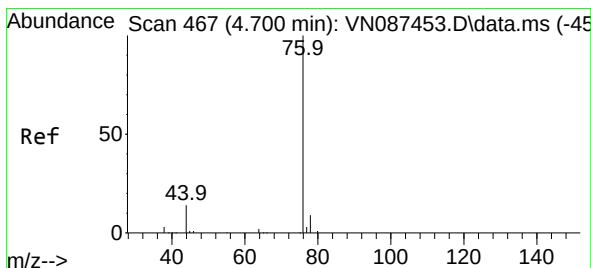
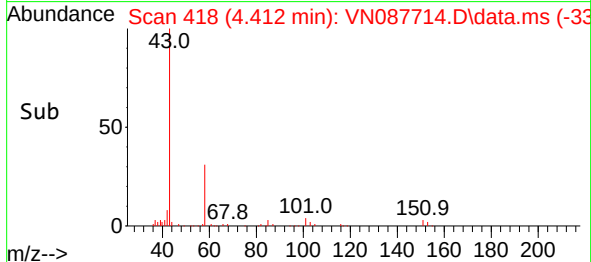
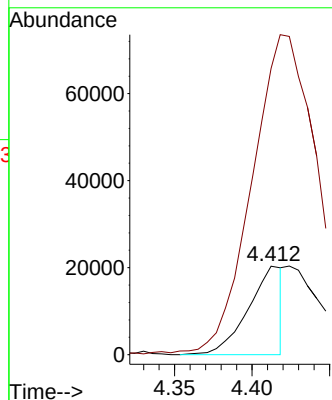
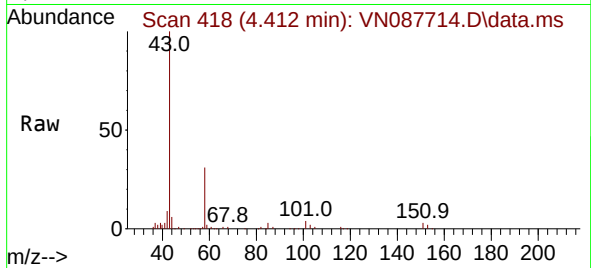




#15  
Acetone  
Concen: 51.398 ug/l  
RT: 4.412 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

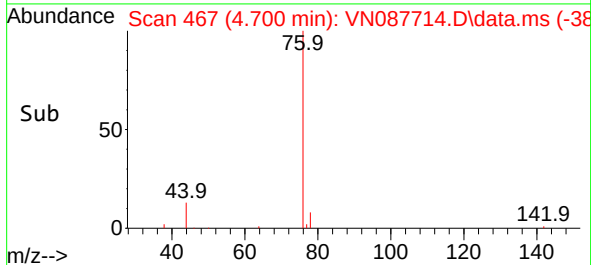
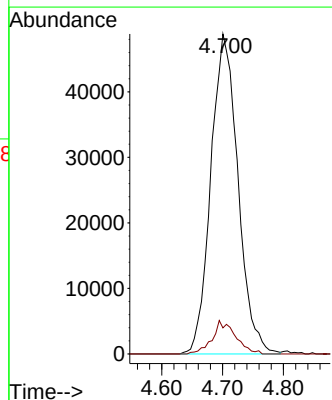
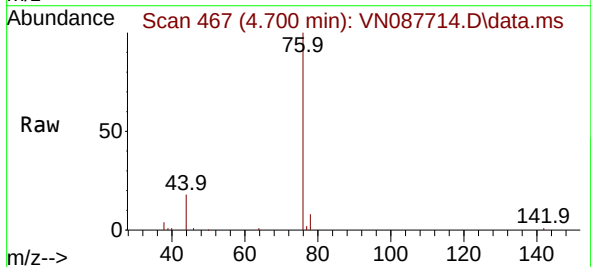
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

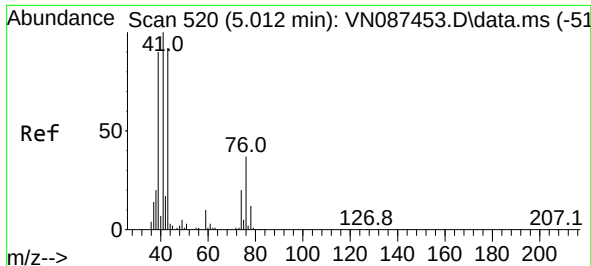
Tgt Ion: 58 Resp: 31337  
Ion Ratio Lower Upper  
58 100  
43 319.7 268.9 403.3



#16  
Carbon Disulfide  
Concen: 18.410 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 76 Resp: 151225  
Ion Ratio Lower Upper  
76 100  
78 8.1 7.1 10.7

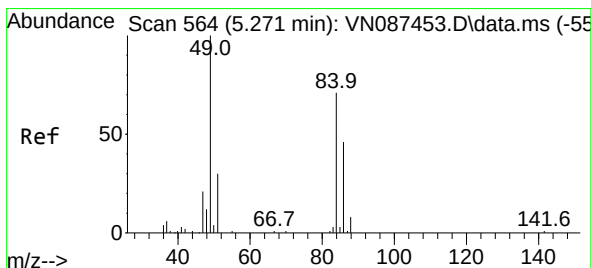
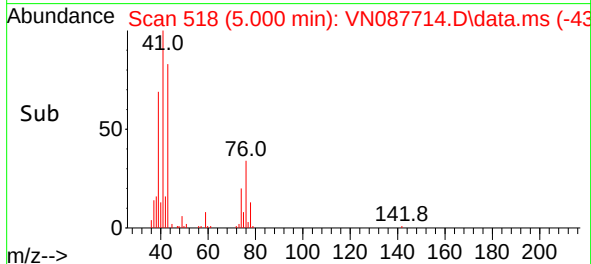
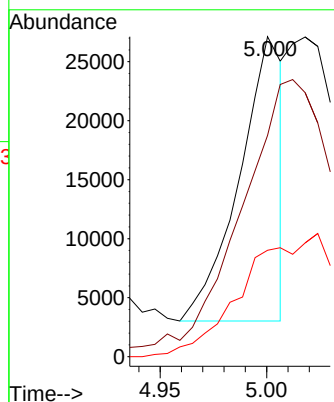
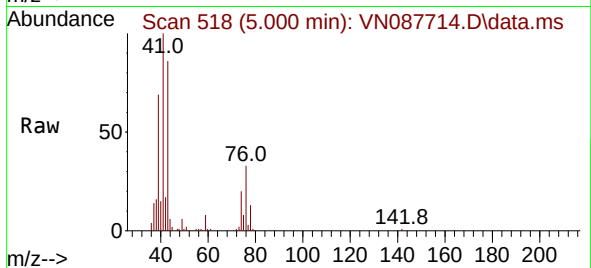




#17  
 Allyl chloride  
 Concen: 6.344 ug/l  
 RT: 5.000 min Scan# 51  
 Delta R.T. -0.012 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

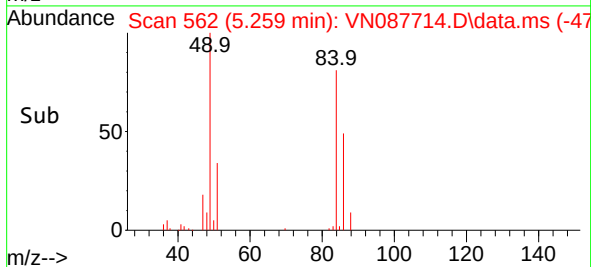
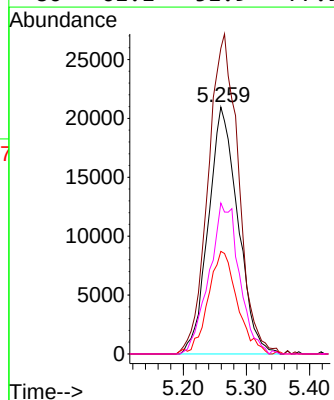
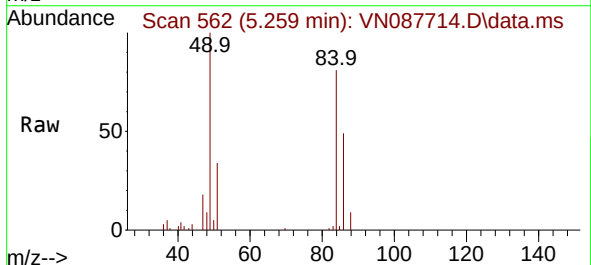
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

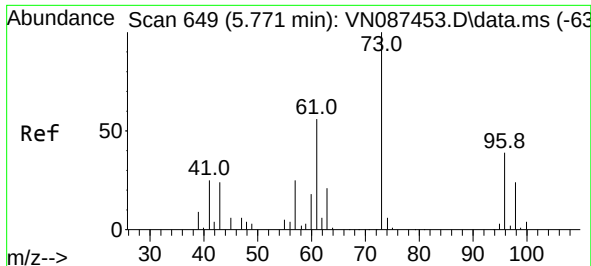
Tgt Ion: 41 Resp: 34239  
 Ion Ratio Lower Upper  
 41 100  
 39 72.1 42.4 127.2  
 76 34.0 16.9 50.6



#18  
 Methylene Chloride  
 Concen: 19.962 ug/l  
 RT: 5.259 min Scan# 562  
 Delta R.T. -0.012 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 84 Resp: 68053  
 Ion Ratio Lower Upper  
 84 100  
 49 123.8 112.9 169.3  
 51 40.8 33.8 50.8  
 86 61.1 51.9 77.9

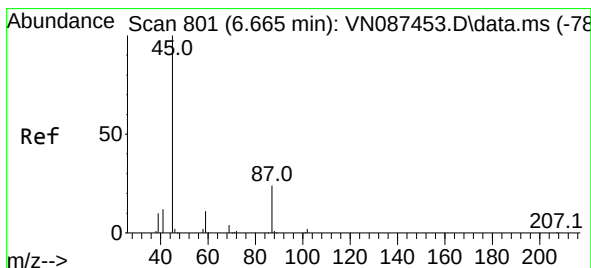
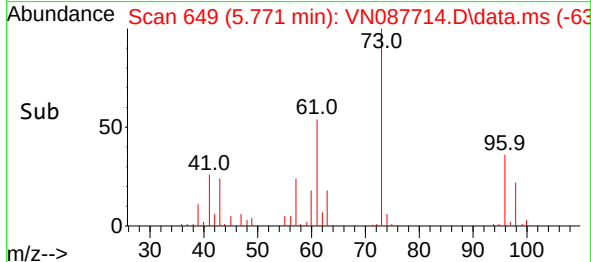
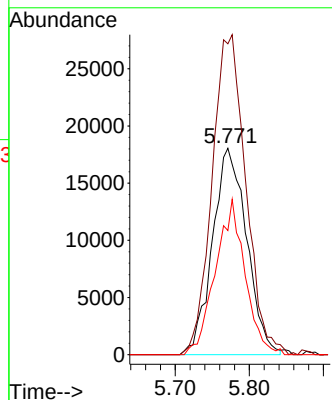
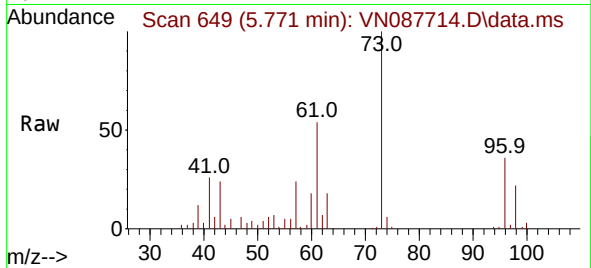




#19  
trans-1,2-Dichloroethene  
Concen: 18.378 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

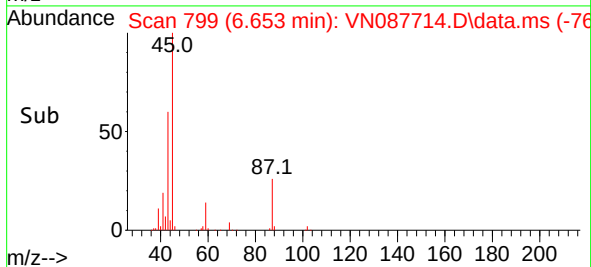
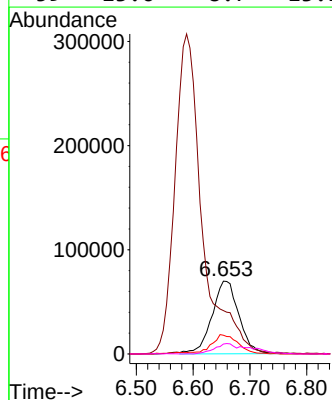
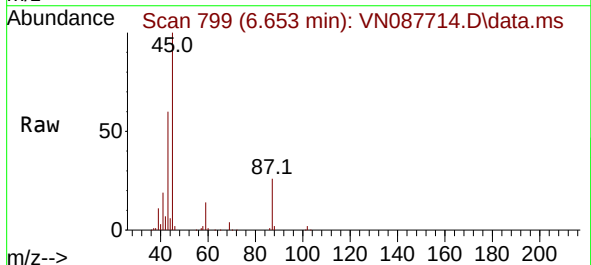
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

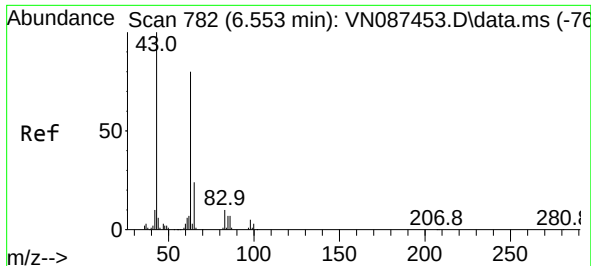
Tgt Ion: 96 Resp: 57873  
Ion Ratio Lower Upper  
96 100  
61 150.7 114.2 171.4  
98 60.2 48.7 73.1



#20  
Diisopropyl ether  
Concen: 18.574 ug/l  
RT: 6.653 min Scan# 799  
Delta R.T. -0.012 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 45 Resp: 228386  
Ion Ratio Lower Upper  
45 100  
43 57.9 44.7 67.1  
87 25.9 20.2 30.2  
59 13.6 8.7 13.1#

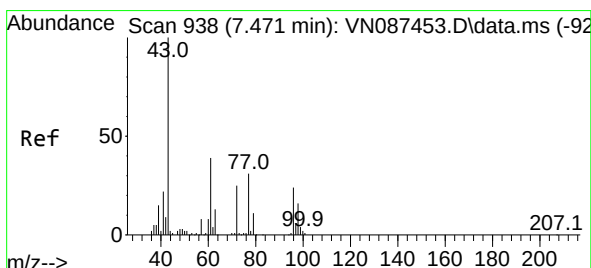
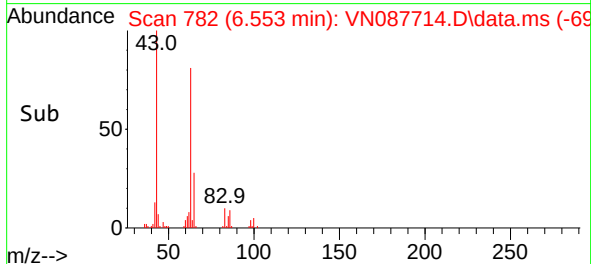
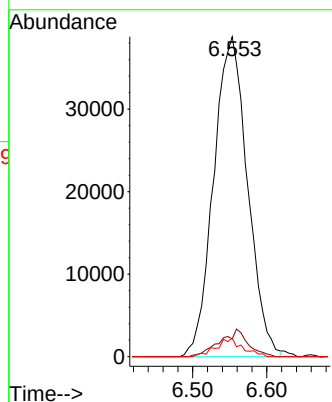
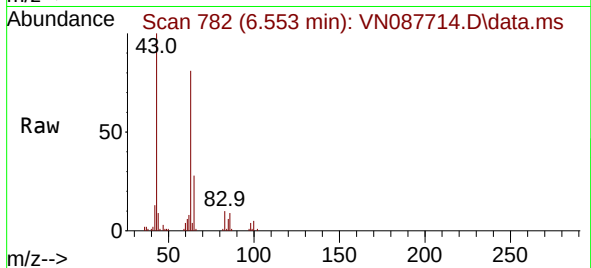




#21  
1,1-Dichloroethane  
Concen: 19.385 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

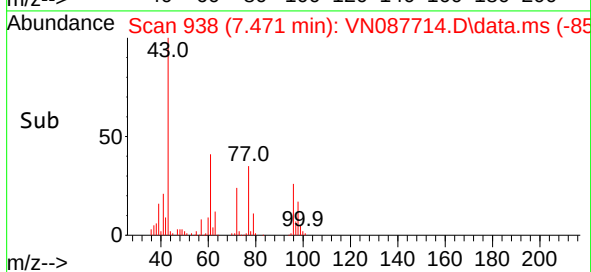
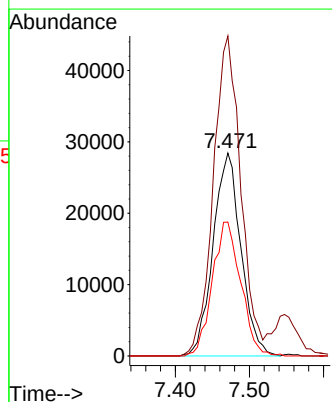
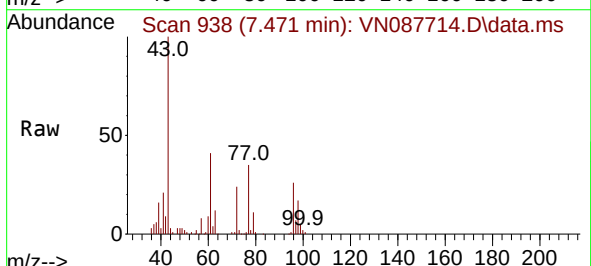
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

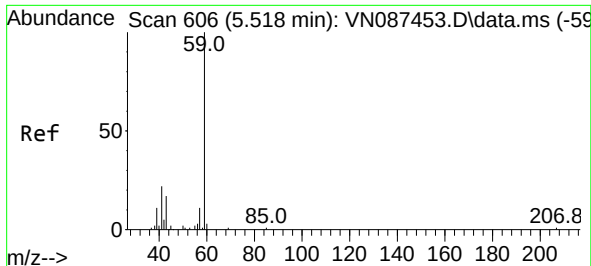
Tgt Ion: 63 Resp: 123208  
Ion Ratio Lower Upper  
63 100  
98 5.5 3.0 9.0  
100 5.8 1.9 5.7#



#22  
cis-1,2-Dichloroethene  
Concen: 19.126 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 96 Resp: 74107  
Ion Ratio Lower Upper  
96 100  
61 155.7 126.6 190.0  
98 67.2 50.9 76.3

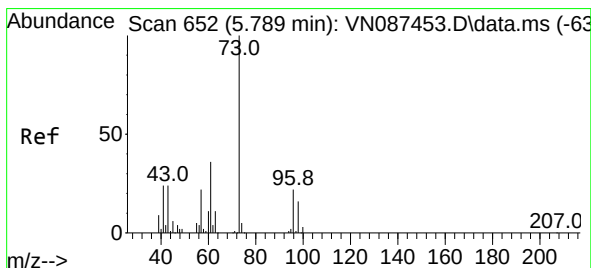
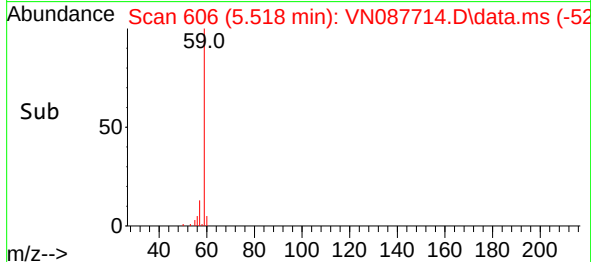
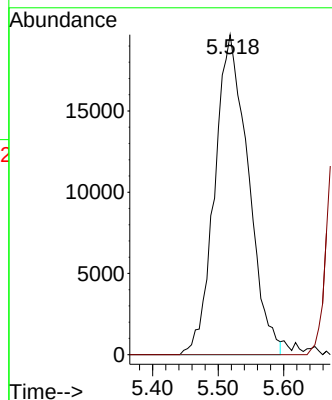
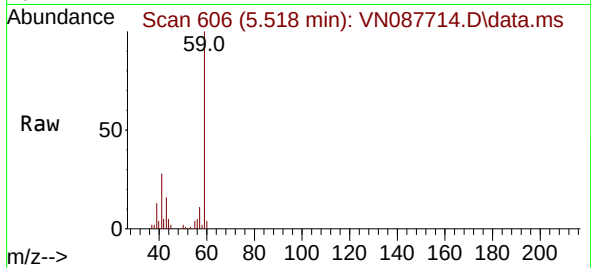




#23  
tert-Butyl Alcohol  
Concen: 77.117 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

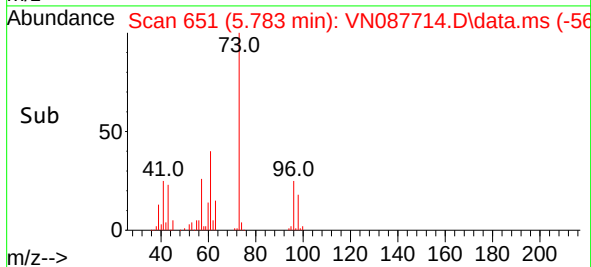
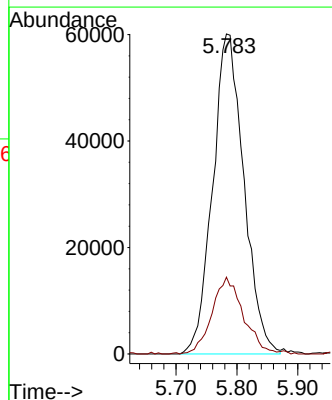
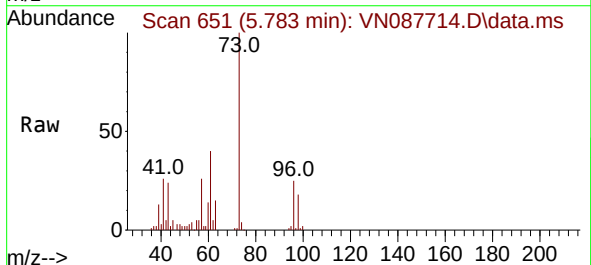
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

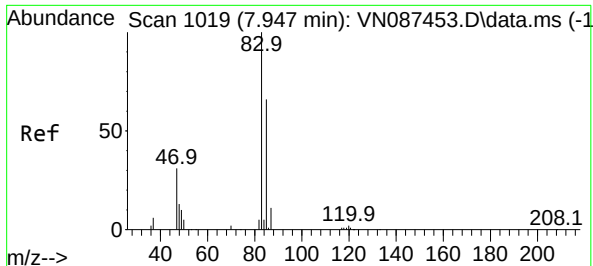
Tgt Ion: 59 Resp: 69925  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#24  
Methyl tert-Butyl Ether  
Concen: 17.719 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 73 Resp: 213810  
Ion Ratio Lower Upper  
73 100  
43 24.0 19.9 29.9





#25

Chloroform

Concen: 19.968 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

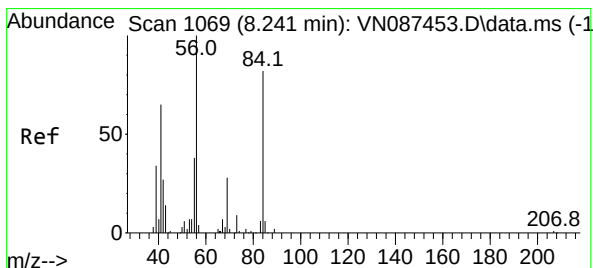
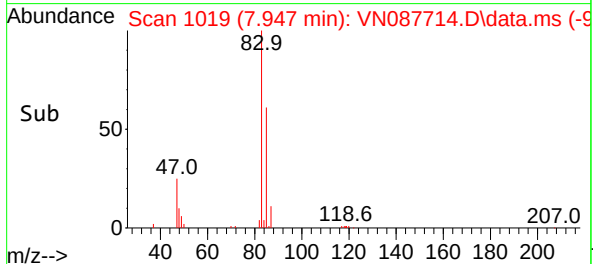
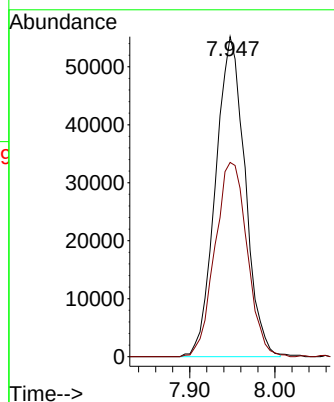
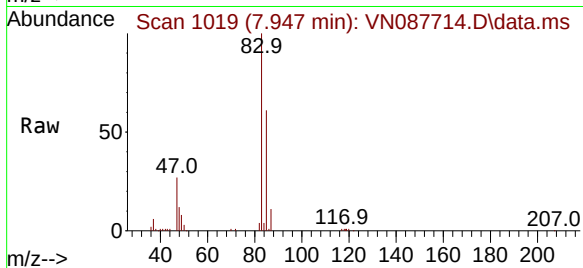
VSTDCCC020

Tgt Ion: 83 Resp: 132472

Ion Ratio Lower Upper

83 100

85 60.7 52.6 78.8



#26

Cyclohexane

Concen: 17.583 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

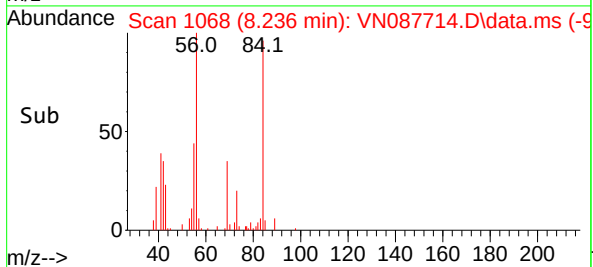
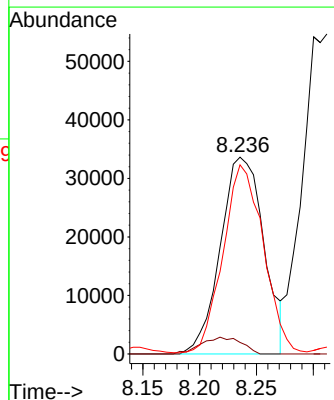
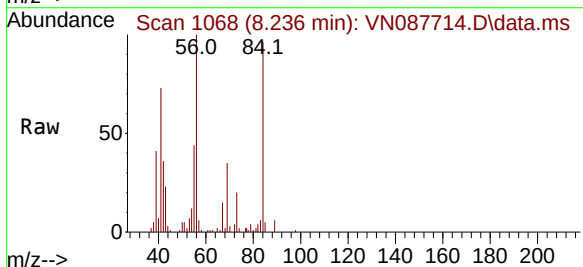
Tgt Ion: 56 Resp: 89474

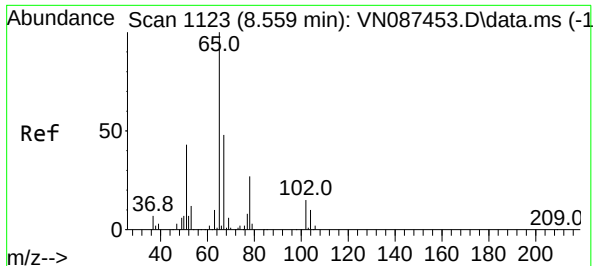
Ion Ratio Lower Upper

56 100

89 7.9 2.3 3.5#

84 89.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.933 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

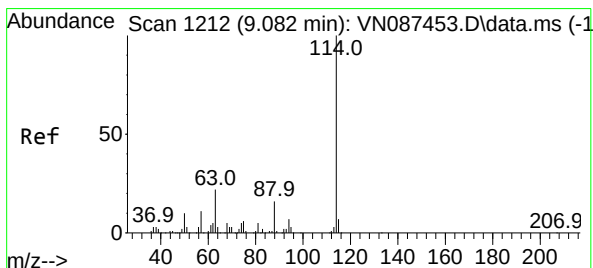
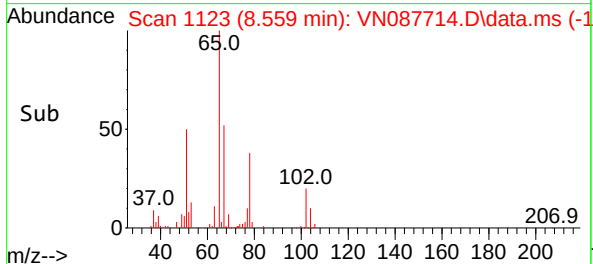
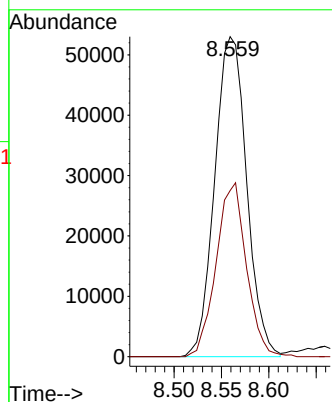
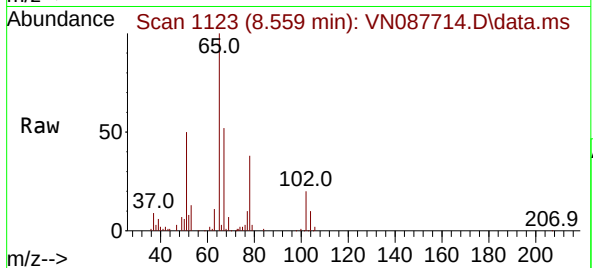
VSTDCCC020

Tgt Ion: 65 Resp: 124569

Ion Ratio Lower Upper

65 100

67 51.4 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

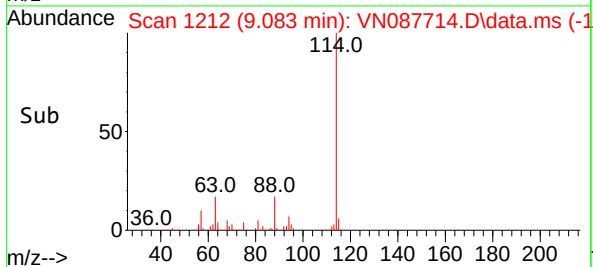
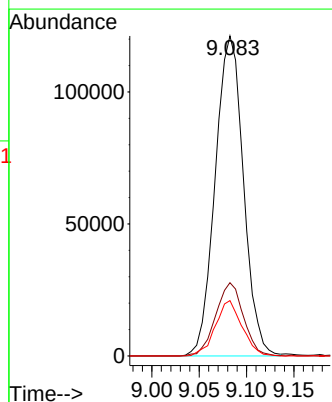
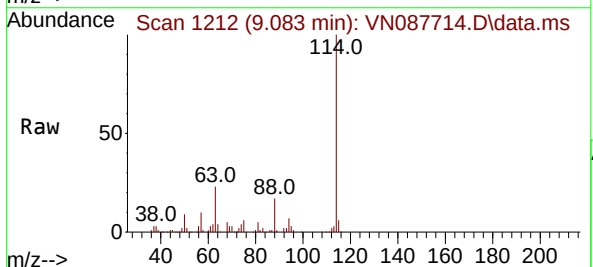
Tgt Ion: 114 Resp: 251837

Ion Ratio Lower Upper

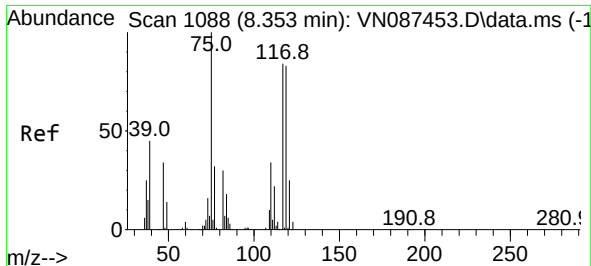
114 100

63 22.5 18.9 28.3

88 16.3 13.1 19.7



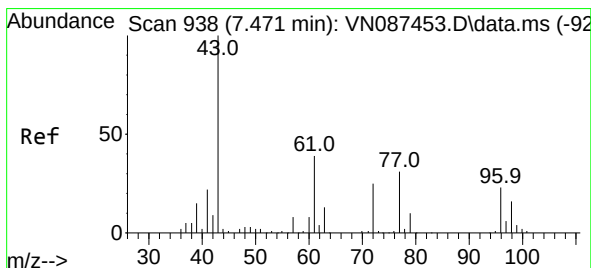
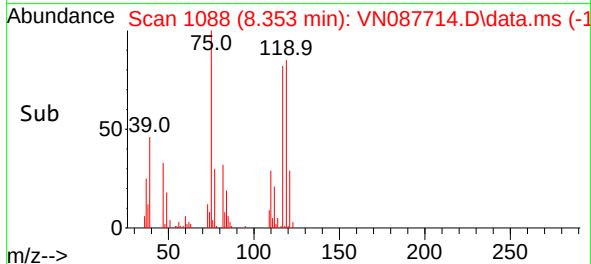
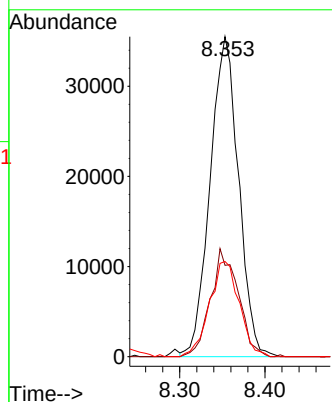
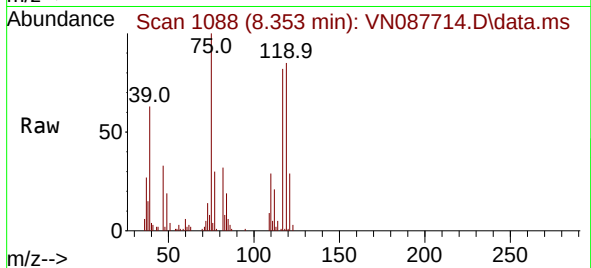




#29  
1,1-Dichloropropene  
Concen: 20.075 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

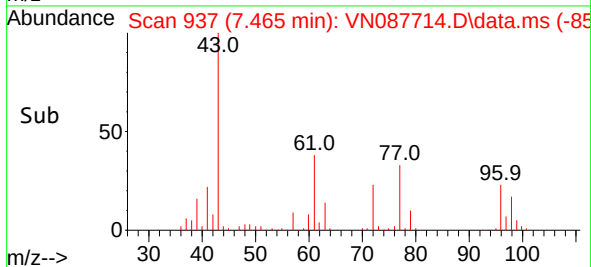
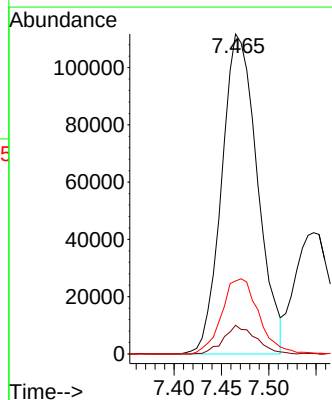
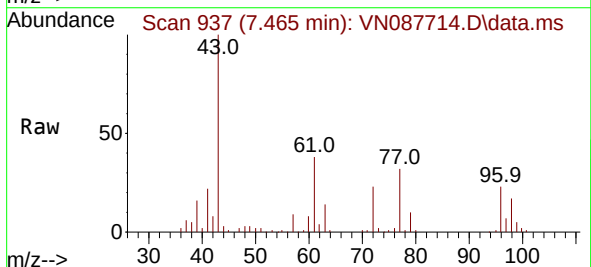
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

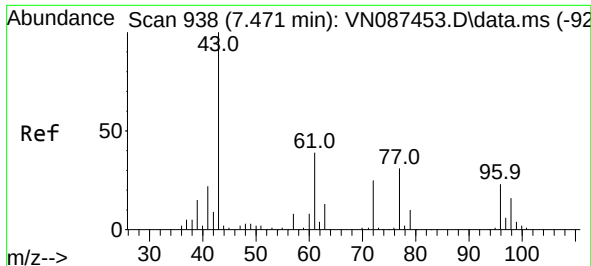
Tgt Ion: 75 Resp: 82459  
Ion Ratio Lower Upper  
75 100  
110 32.8 0.0 65.8  
77 31.2 0.0 63.6



#30  
2-Butanone  
Concen: 96.824 ug/l  
RT: 7.465 min Scan# 937  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 293154  
Ion Ratio Lower Upper  
43 100  
57 8.1 6.6 9.8  
72 24.2 19.7 29.5

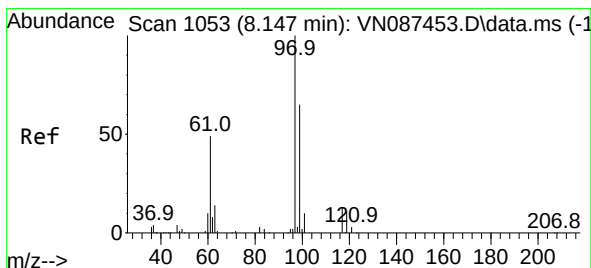
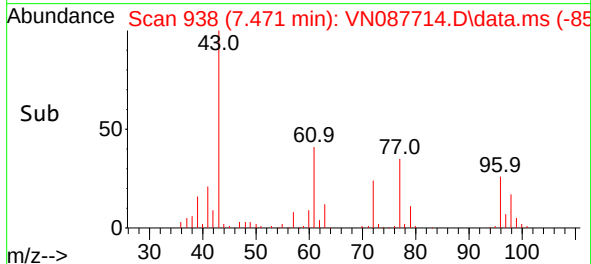
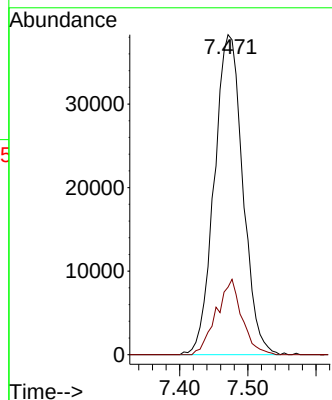
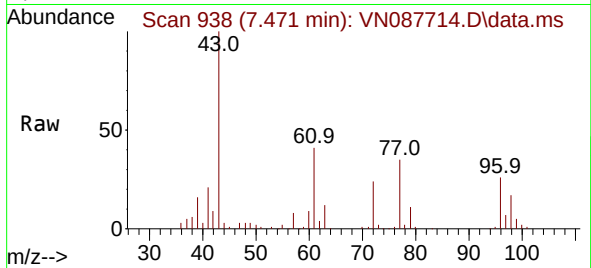




#31  
2,2-Dichloropropane  
Concen: 21.065 ug/l  
RT: 7.471 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

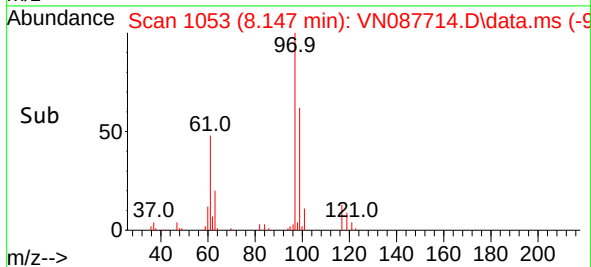
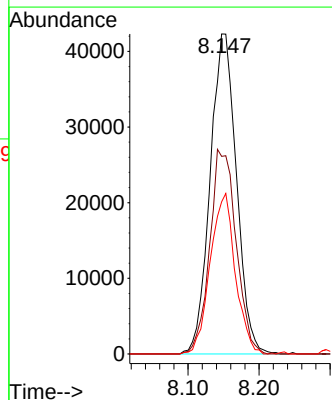
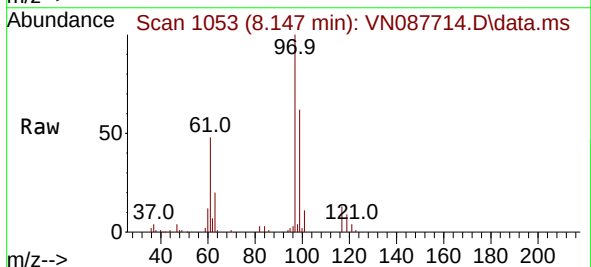
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

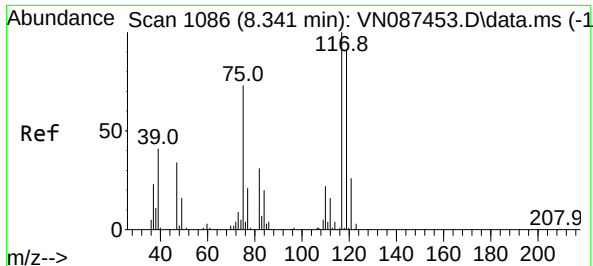
Tgt Ion: 77 Resp: 111592  
Ion Ratio Lower Upper  
77 100  
97 21.1 16.7 25.1



#32  
1,1,1-Trichloroethane  
Concen: 20.808 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 109005  
Ion Ratio Lower Upper  
97 100  
99 64.0 53.0 79.6  
61 47.8 40.6 61.0

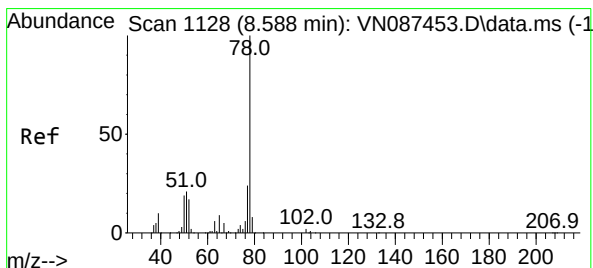
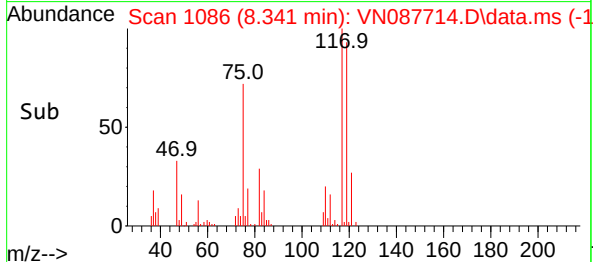
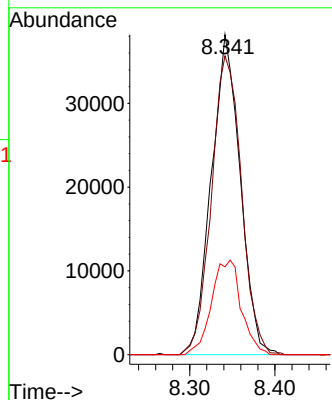
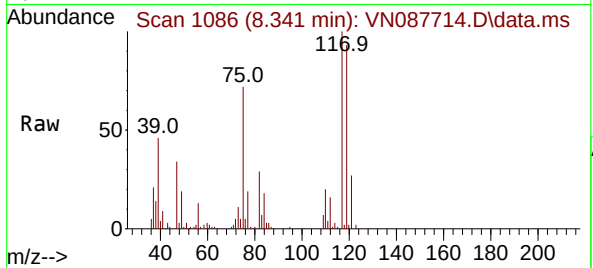




#33  
Carbon Tetrachloride  
Concen: 20.620 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

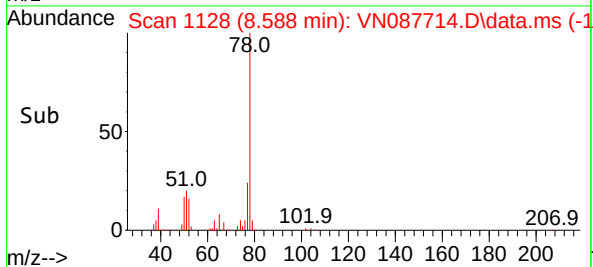
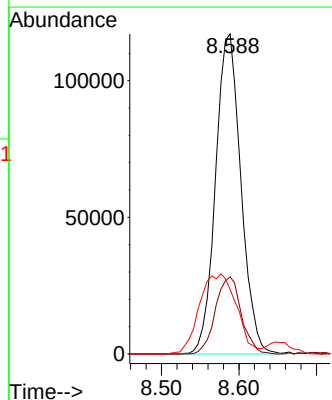
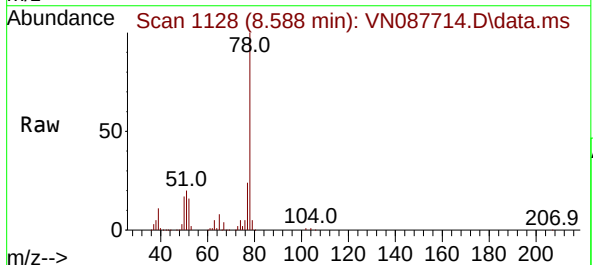
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

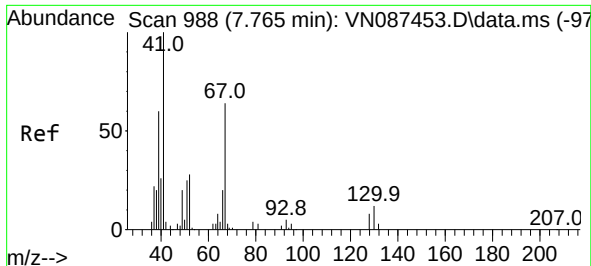
Tgt Ion:117 Resp: 89740  
Ion Ratio Lower Upper  
117 100  
119 93.3 73.4 110.0  
121 27.4 21.1 31.7



#34  
Benzene  
Concen: 20.573 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 78 Resp: 266751  
Ion Ratio Lower Upper  
78 100  
77 24.1 19.2 28.8  
51 19.5 16.9 25.3

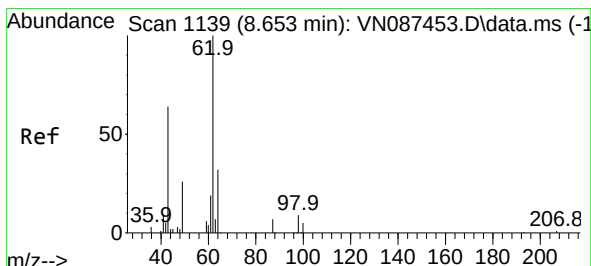
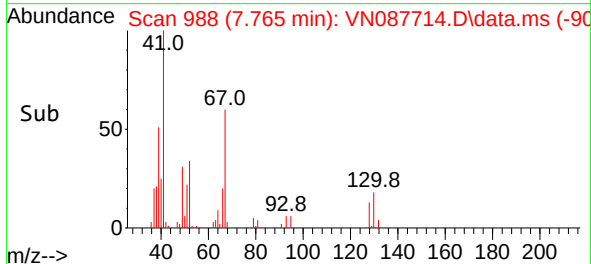
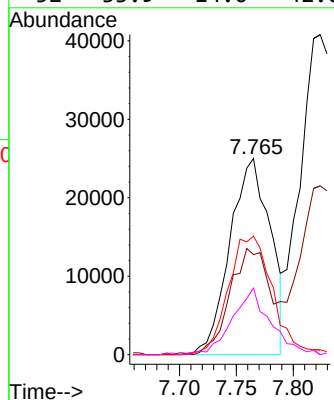
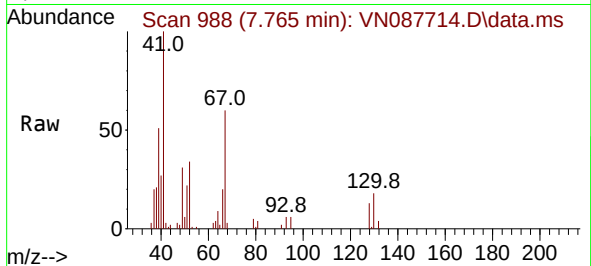




#35  
Methacrylonitrile  
Concen: 18.966 ug/l  
RT: 7.765 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

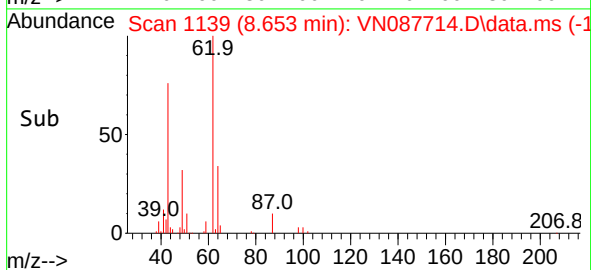
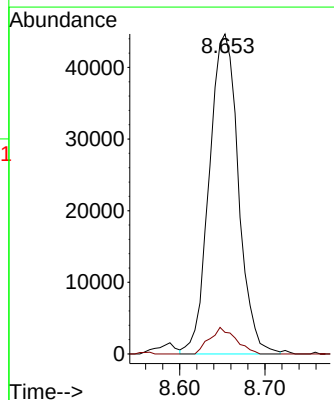
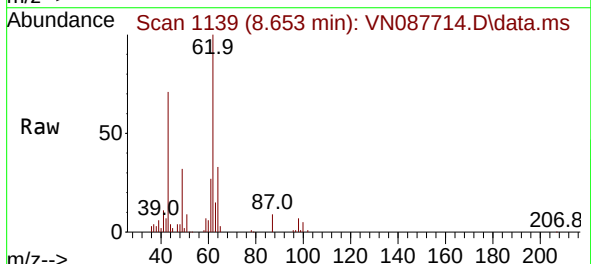
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

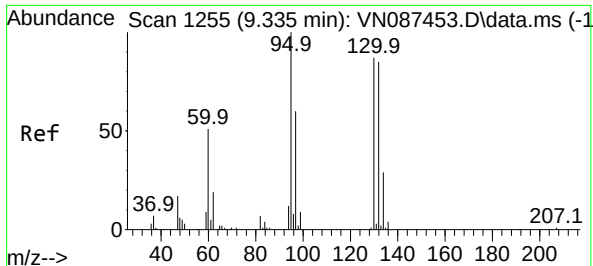
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 61968 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 50.0  | 30.1  | 90.5  |
| 67       | 60.5  | 32.0  | 96.2  |
| 52       | 33.9  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 20.317 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 106474 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 7.4   | 6.6   | 9.8    |





#37

Trichloroethene

Concen: 20.772 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

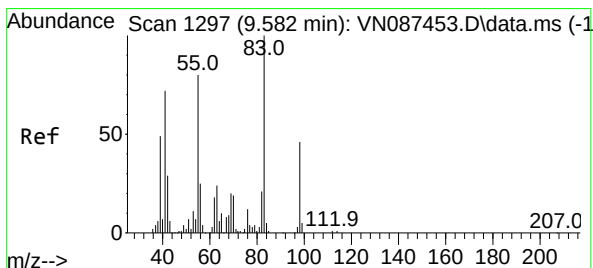
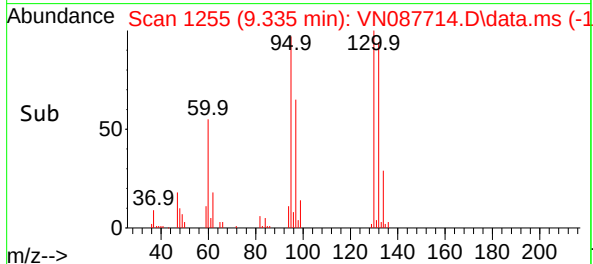
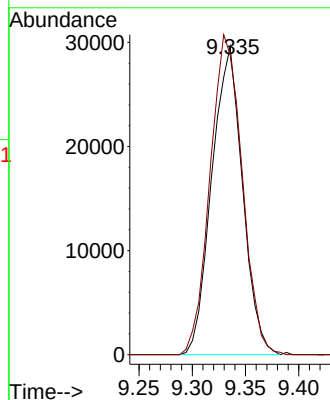
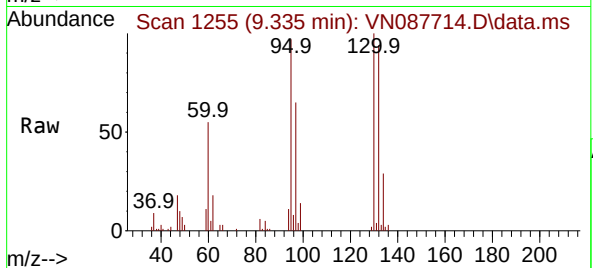
VSTDCCC020

Tgt Ion:130 Resp: 59328

Ion Ratio Lower Upper

130 100

95 97.4 91.4 137.2



#38

Methylcyclohexane

Concen: 18.183 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

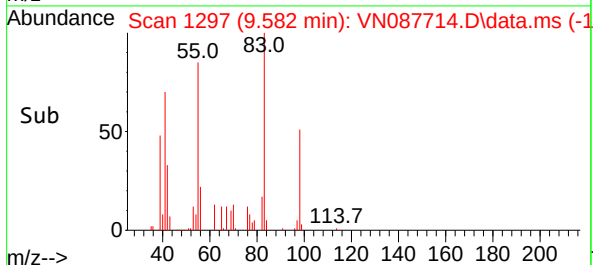
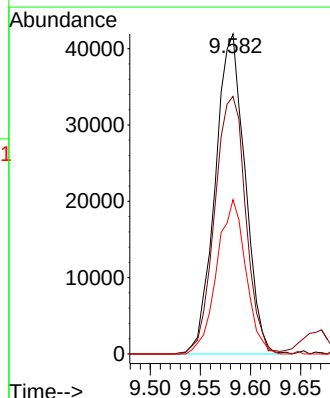
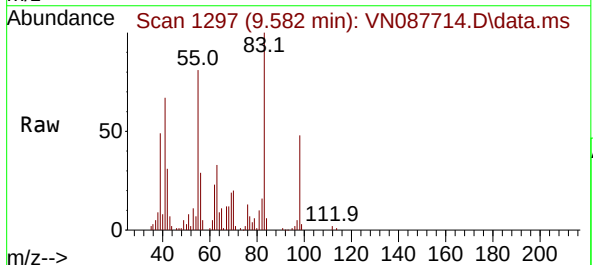
Tgt Ion: 83 Resp: 86646

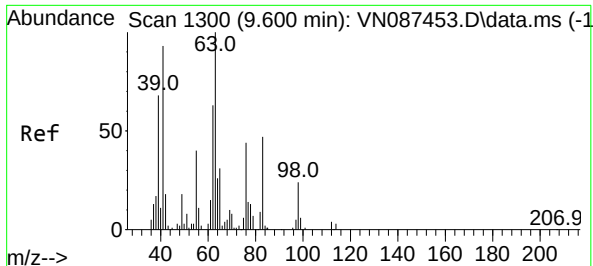
Ion Ratio Lower Upper

83 100

55 83.5 41.2 123.6

98 46.9 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.436 ug/l

RT: 9.600 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

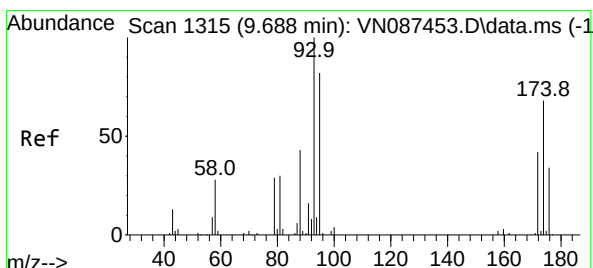
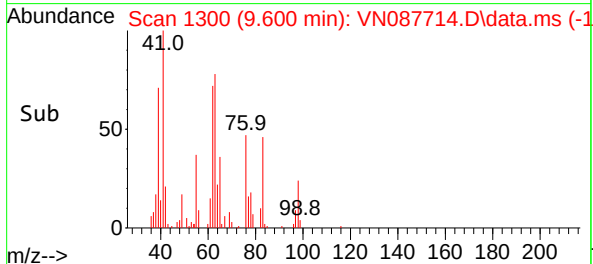
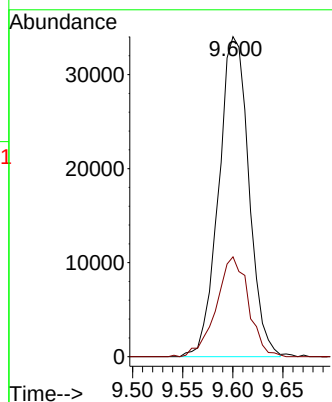
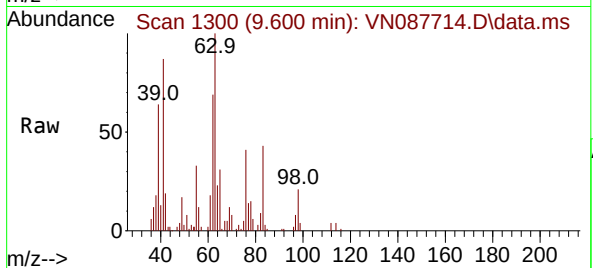
VSTDC020

Tgt Ion: 63 Resp: 71262

Ion Ratio Lower Upper

63 100

65 31.2 24.6 36.8



#40

Dibromomethane

Concen: 20.170 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

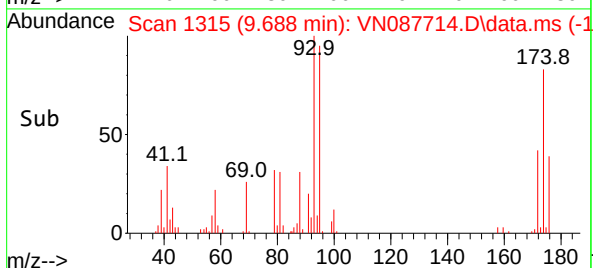
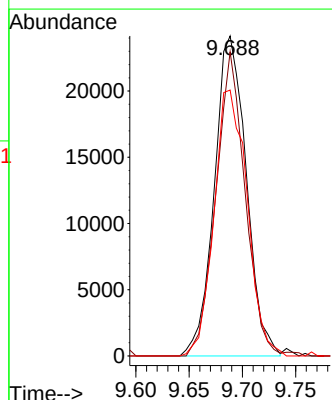
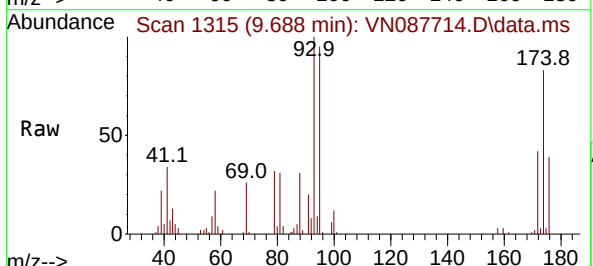
Tgt Ion: 93 Resp: 50310

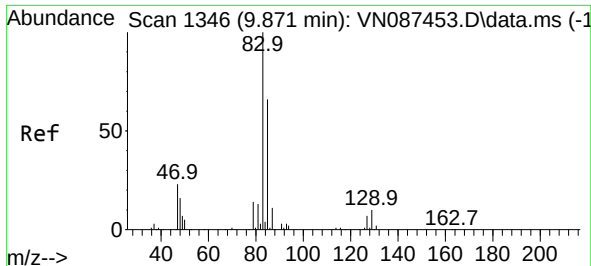
Ion Ratio Lower Upper

93 100

95 86.8 0.0 161.6

174 86.3 0.0 151.4

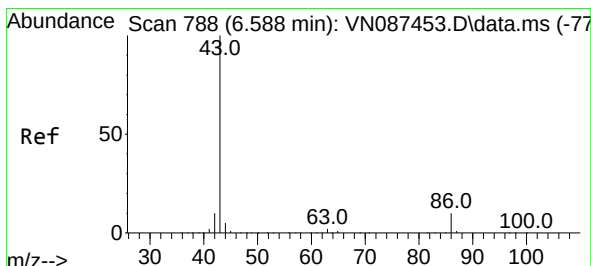
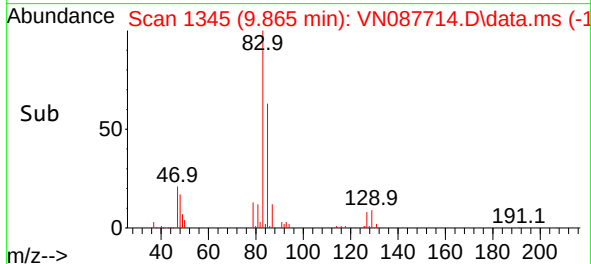
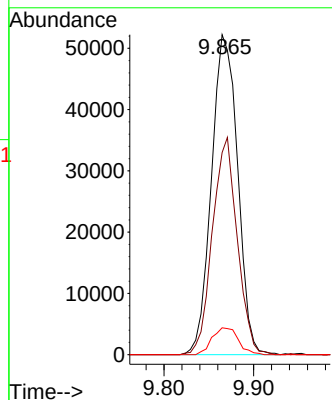
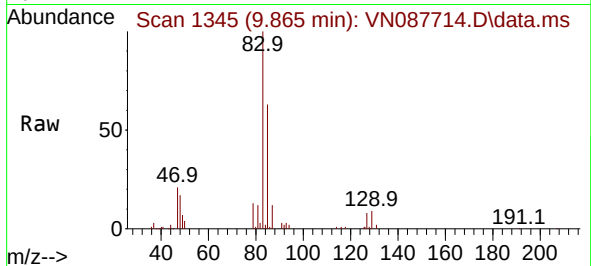




#41  
Bromodichloromethane  
Concen: 20.422 ug/l  
RT: 9.865 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

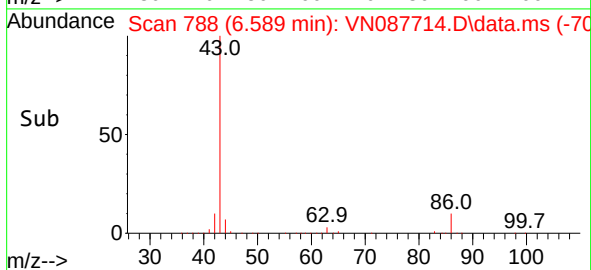
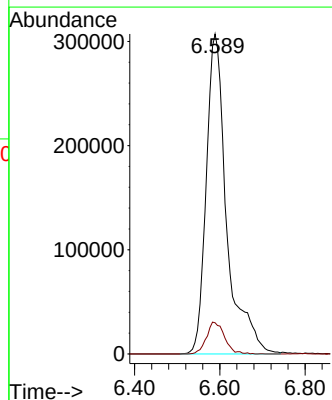
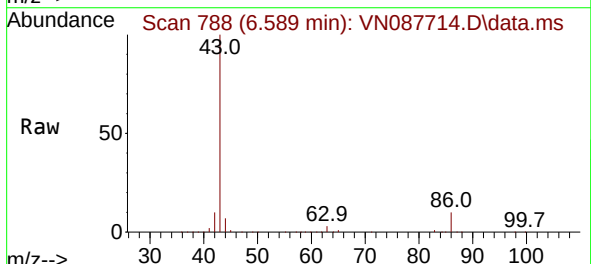
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

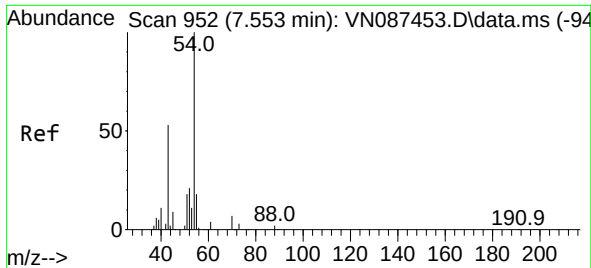
Tgt Ion: 83 Resp: 105844  
Ion Ratio Lower Upper  
83 100  
85 63.2 52.9 79.3  
127 8.4 5.8 8.6



#42  
Vinyl Acetate  
Concen: 102.828 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 1025271  
Ion Ratio Lower Upper  
43 100  
86 8.5 7.3 10.9

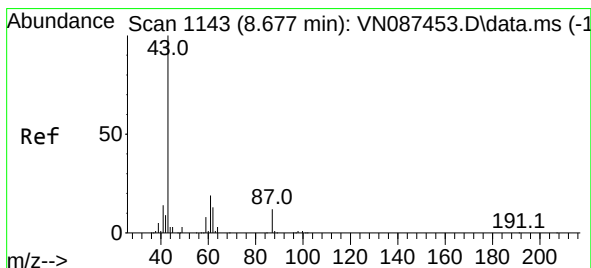
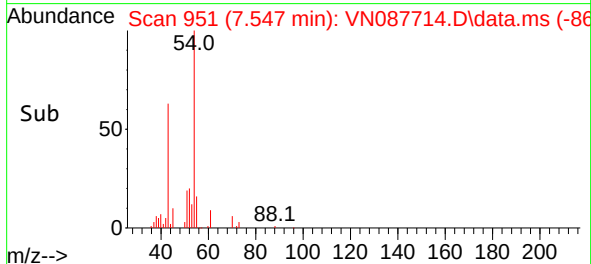
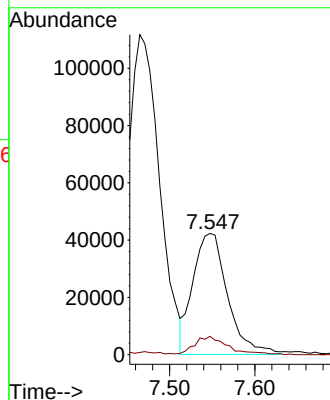
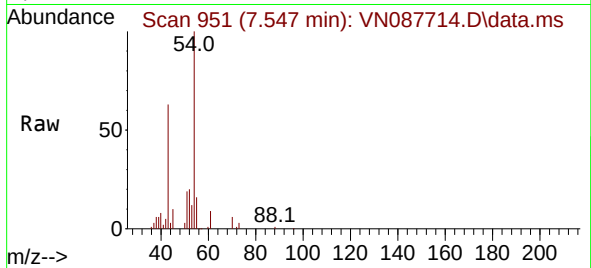




#43  
Ethyl Acetate  
Concen: 20.443 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

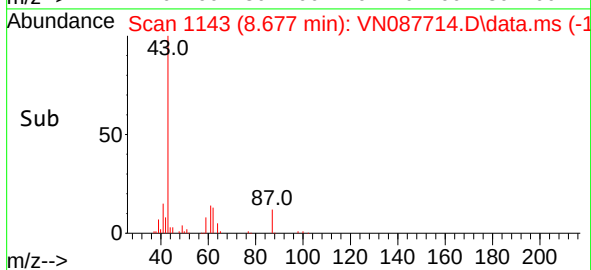
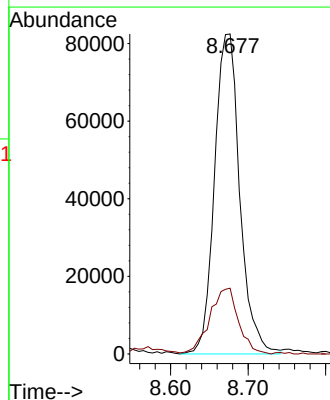
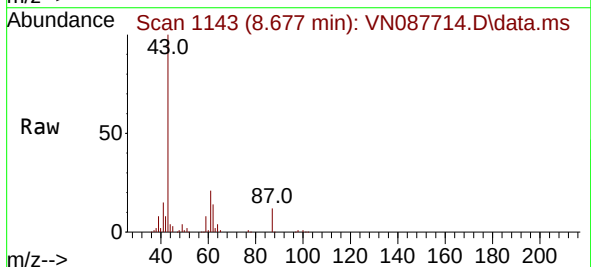
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 43 Resp: 119575  
Ion Ratio Lower Upper  
43 100  
45 11.5 11.1 16.7

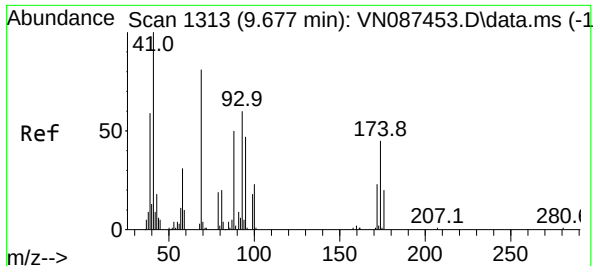


#44  
Isopropyl Acetate  
Concen: 18.837 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 186772  
Ion Ratio Lower Upper  
43 100  
61 23.4 18.6 28.0







#45

1,4-Dioxane

Concen: 321.735 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

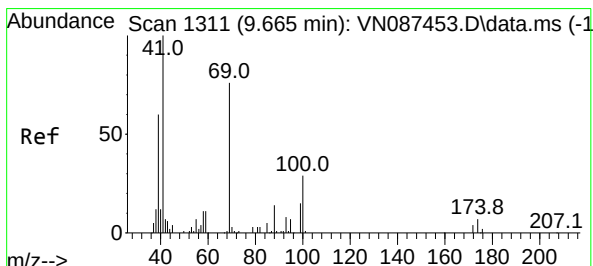
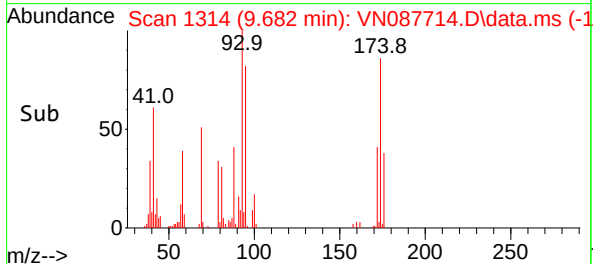
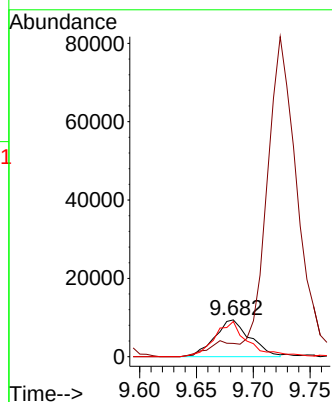
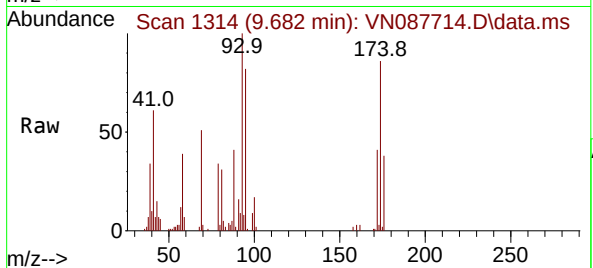
Tgt Ion: 88 Resp: 20336

Ion Ratio Lower Upper

88 100

43 36.7 24.1 36.1#

58 83.4 57.2 85.8



#46

Methyl methacrylate

Concen: 18.523 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

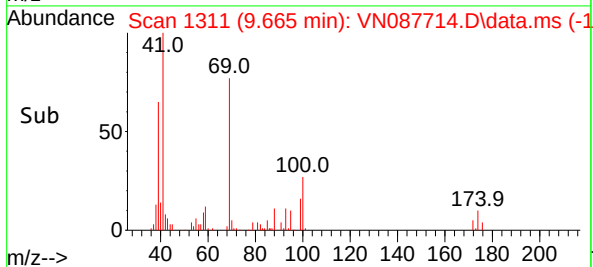
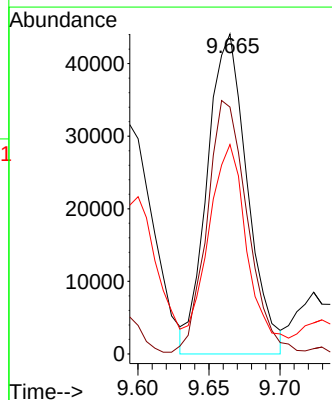
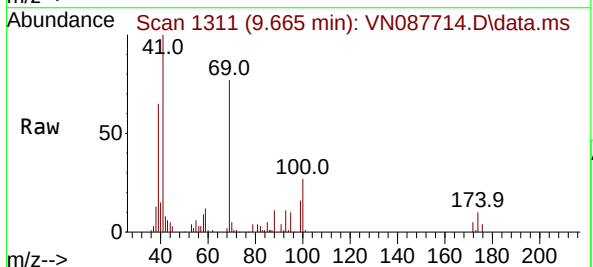
Tgt Ion: 41 Resp: 86691

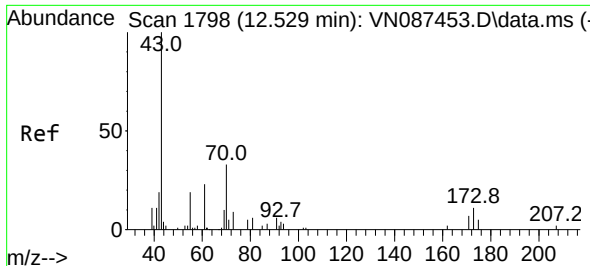
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 63.8 30.7 92.1

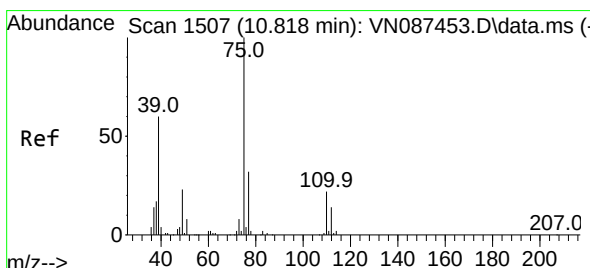
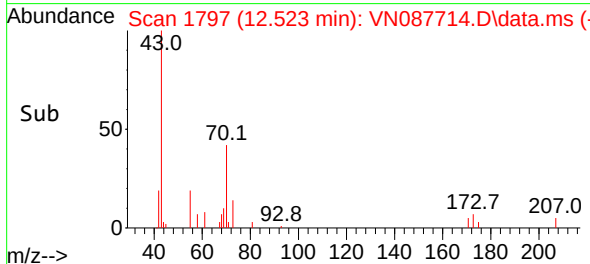
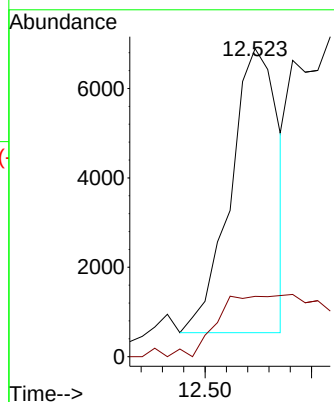
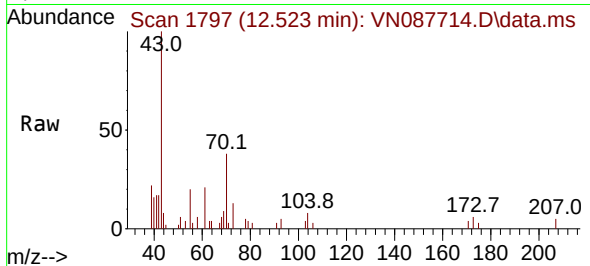




#47  
n-amy1 Acetate  
Concen: 1.812 ug/l  
RT: 12.523 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

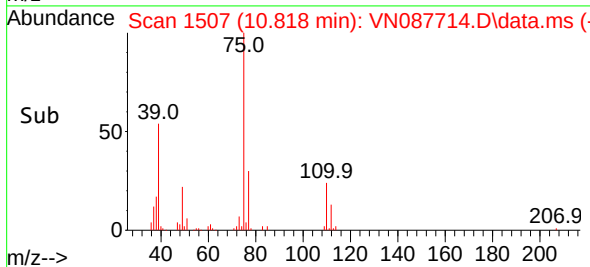
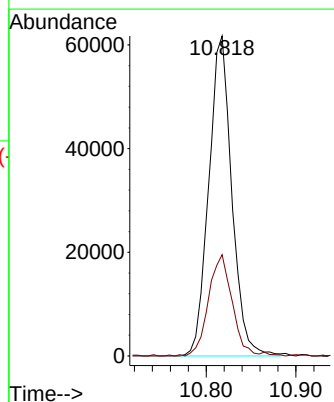
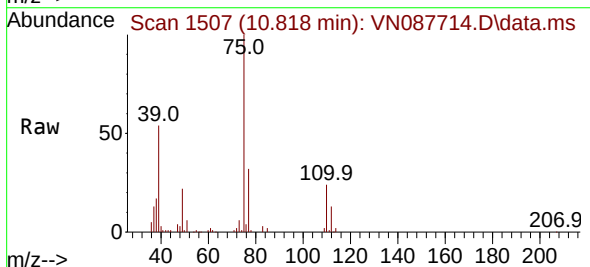
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

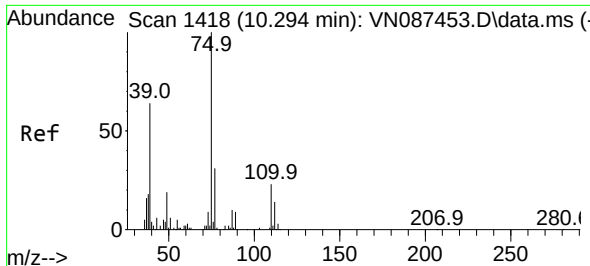
Tgt Ion: 43 Resp: 9924  
Ion Ratio Lower Upper  
43 100  
55 13.9 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 19.505 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 109981  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.3 37.9

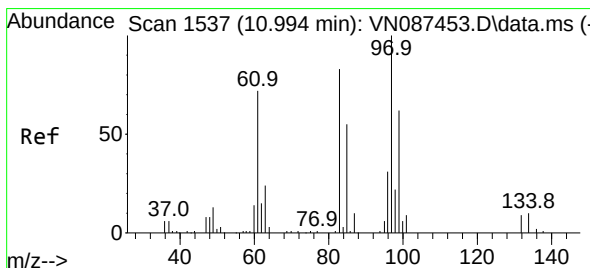
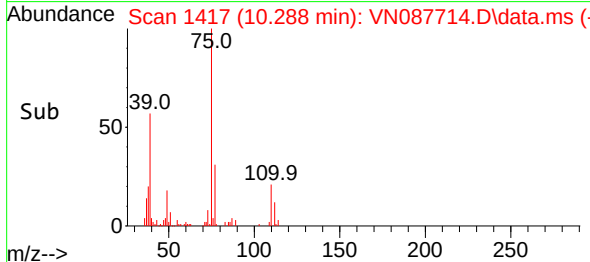
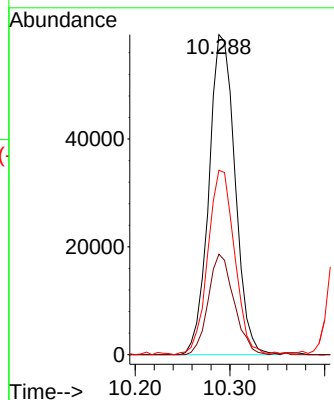
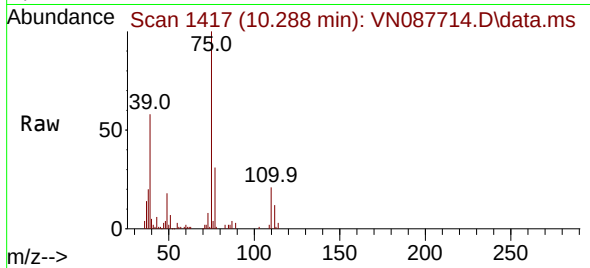




#49  
 cis-1,3-Dichloropropene  
 Concen: 20.087 ug/l  
 RT: 10.288 min Scan# 1417  
 Delta R.T. -0.006 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

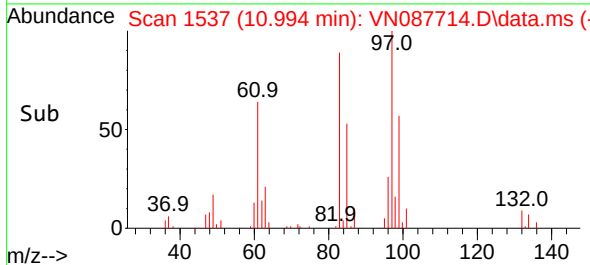
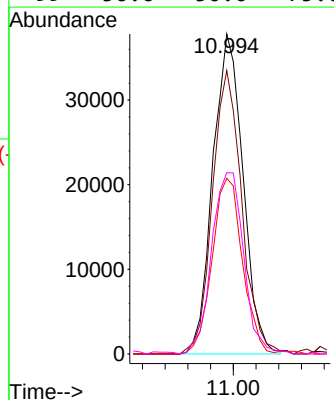
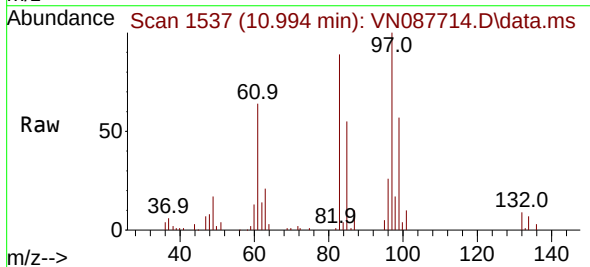
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

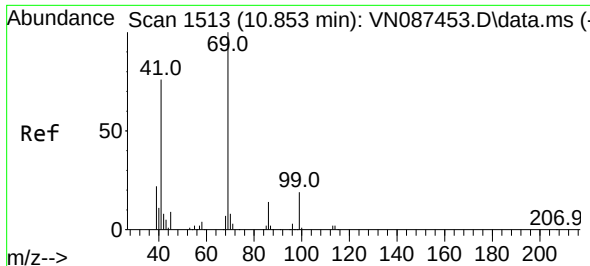
Tgt Ion: 75 Resp: 113989  
 Ion Ratio Lower Upper  
 75 100  
 77 31.4 24.6 36.8  
 39 57.2 51.5 77.3



#50  
 1,1,2-Trichloroethane  
 Concen: 22.082 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 69590  
 Ion Ratio Lower Upper  
 97 100  
 83 88.6 66.2 99.2  
 85 54.9 43.9 65.9  
 99 56.6 50.0 75.0

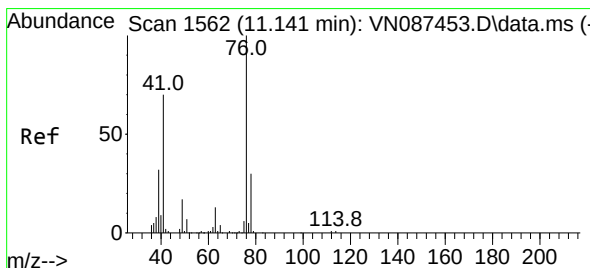
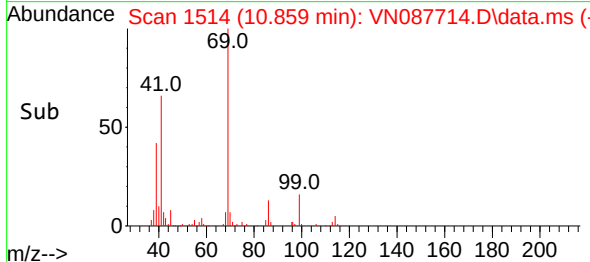
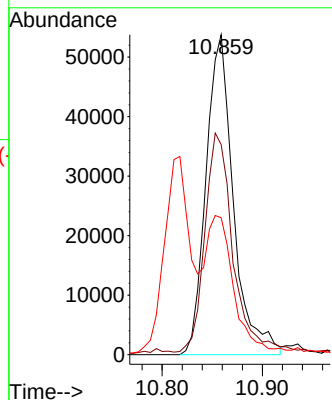
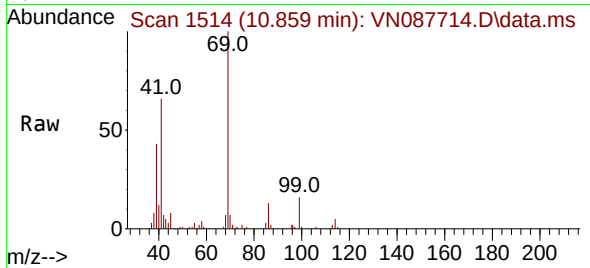




#51  
Ethyl methacrylate  
Concen: 18.444 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

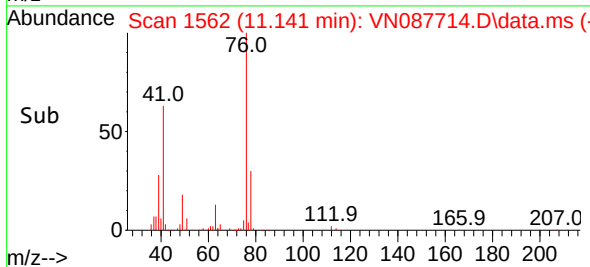
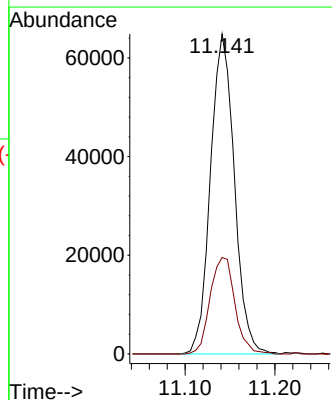
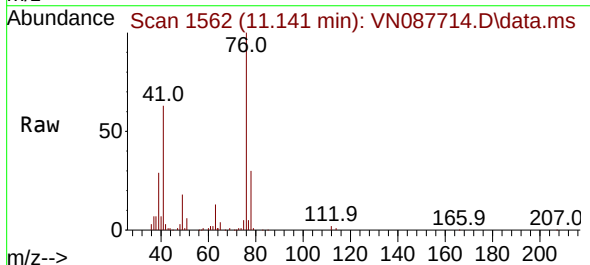
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

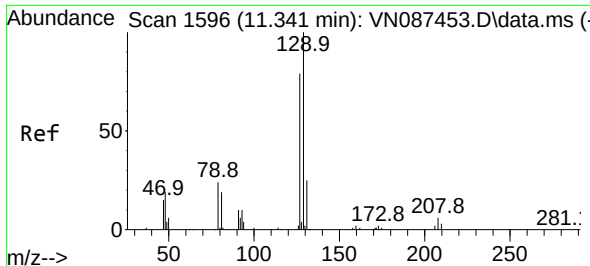
Tgt Ion: 69 Resp: 102364  
Ion Ratio Lower Upper  
69 100  
41 64.6 38.0 114.1  
39 40.8 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 21.132 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 76 Resp: 119980  
Ion Ratio Lower Upper  
76 100  
78 31.2 0.0 63.0

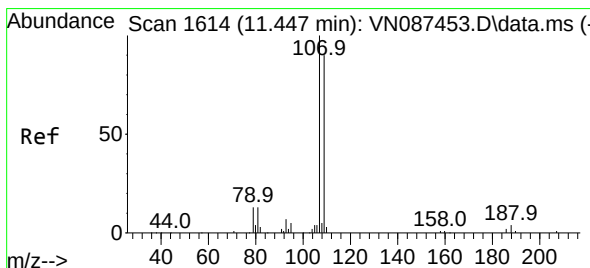
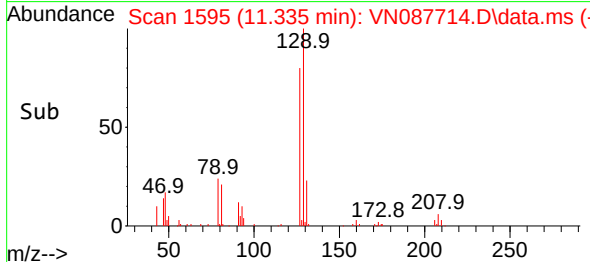
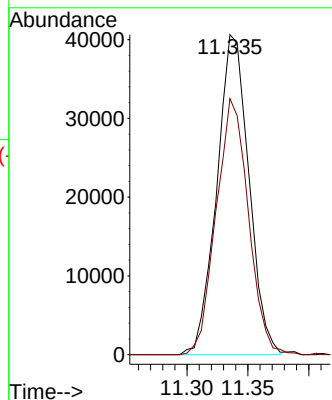
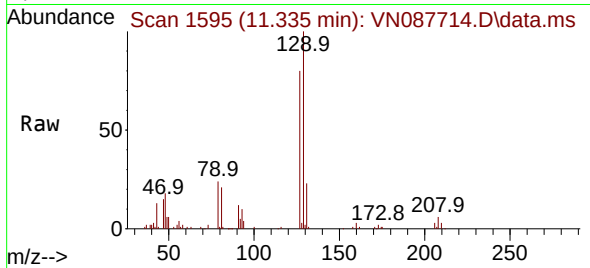




#53  
Dibromochloromethane  
Concen: 20.469 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

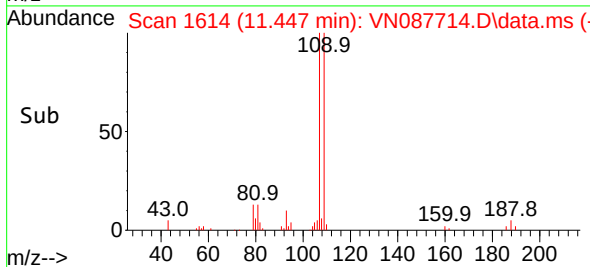
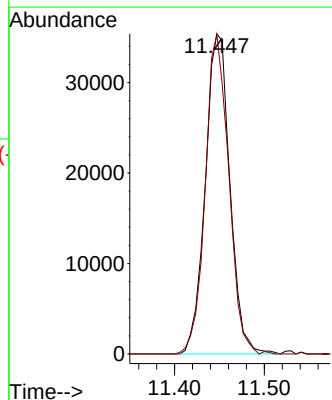
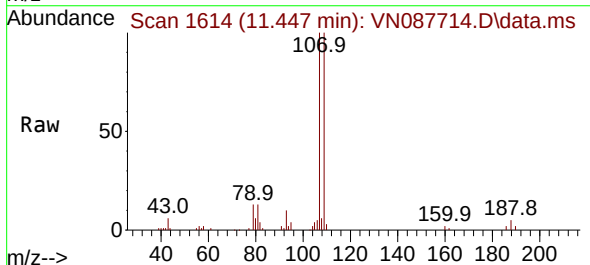
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

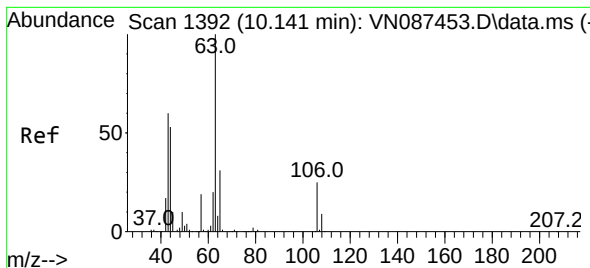
Tgt Ion:129 Resp: 74495  
Ion Ratio Lower Upper  
129 100  
127 80.3 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 20.155 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:107 Resp: 67426  
Ion Ratio Lower Upper  
107 100  
109 95.0 74.2 111.4

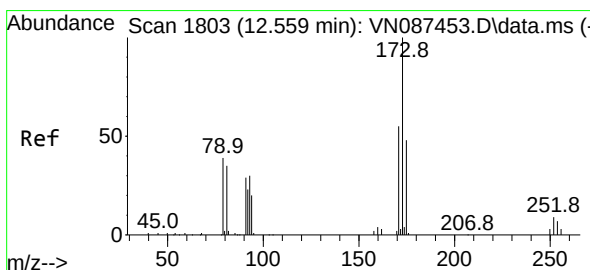
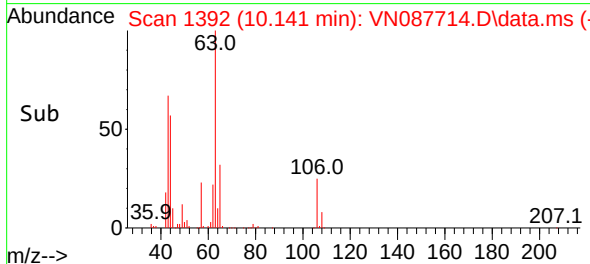
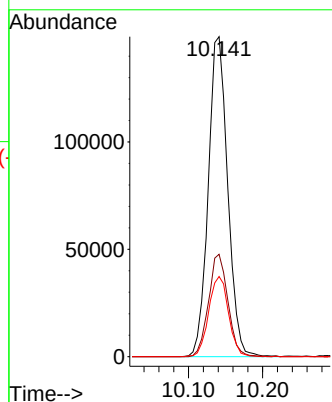
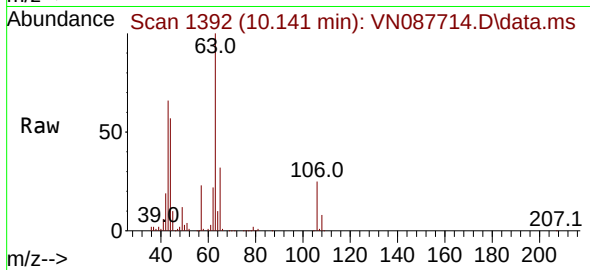




#55  
2-Chloroethyl vinyl ether  
Concen: 92.933 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

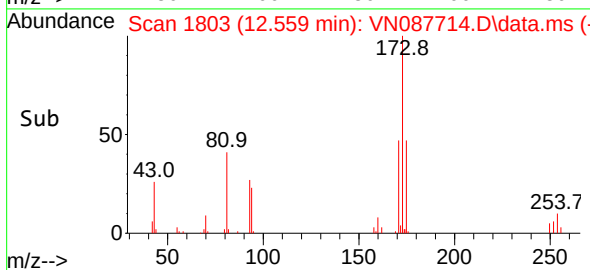
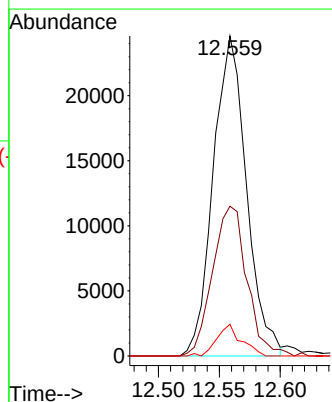
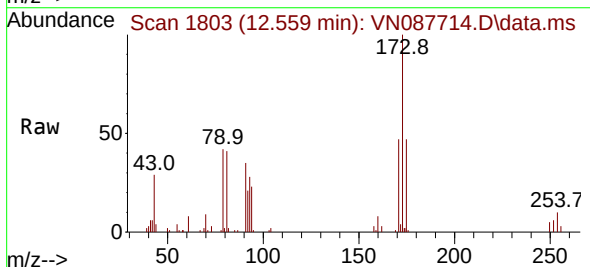
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

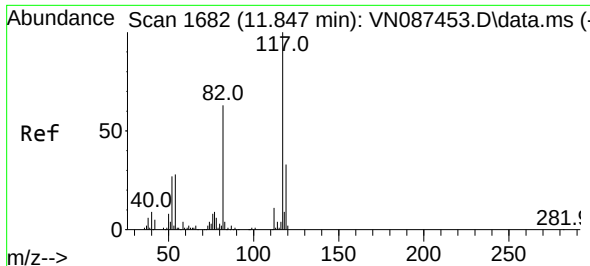
Tgt Ion: 63 Resp: 271527  
Ion Ratio Lower Upper  
63 100  
65 31.8 25.7 38.5  
106 25.5 20.7 31.1



#56  
Bromoform  
Concen: 19.424 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 173 Resp: 46759  
Ion Ratio Lower Upper  
173 100  
175 48.2 38.8 58.2  
254 7.1 3.9 5.9#

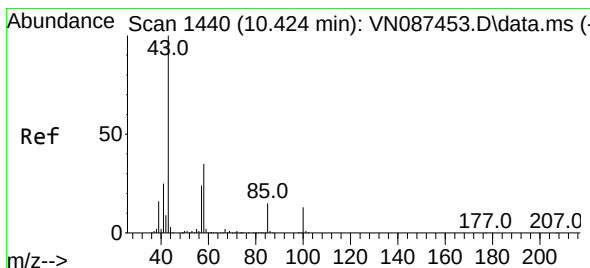
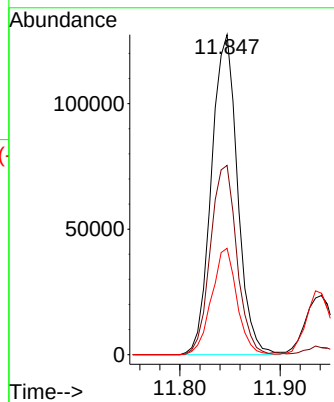
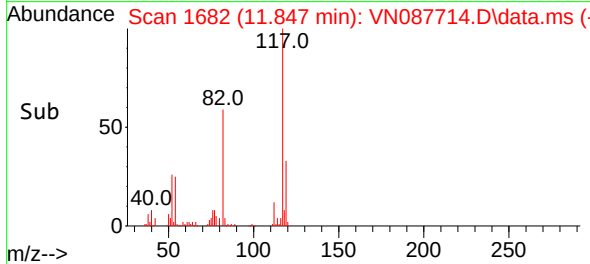
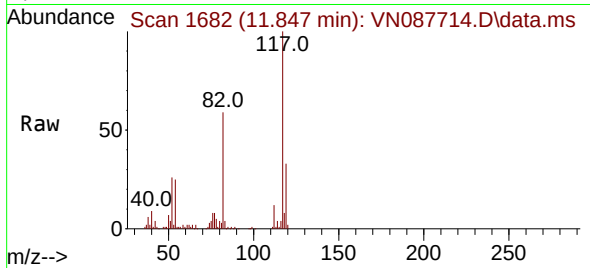




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

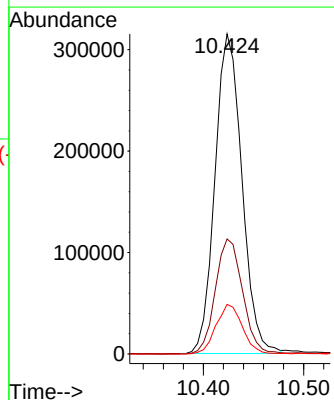
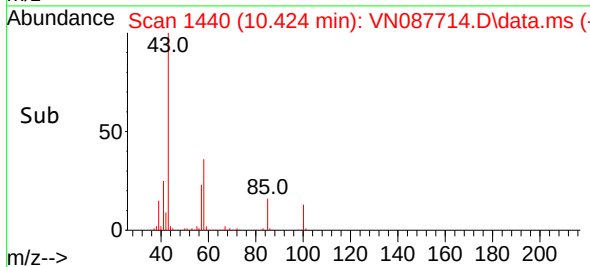
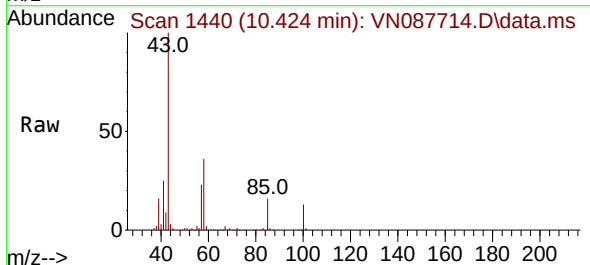
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

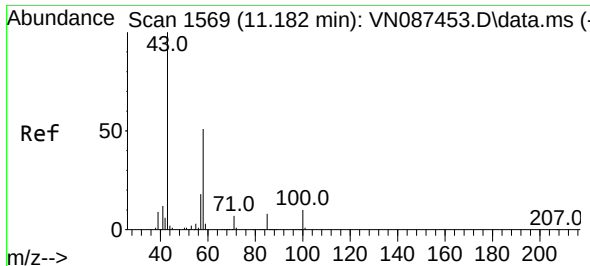
Tgt Ion:117 Resp: 230082  
Ion Ratio Lower Upper  
117 100  
82 59.9 49.2 73.8  
119 32.3 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 99.321 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 587862  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 15.3 12.7 19.1

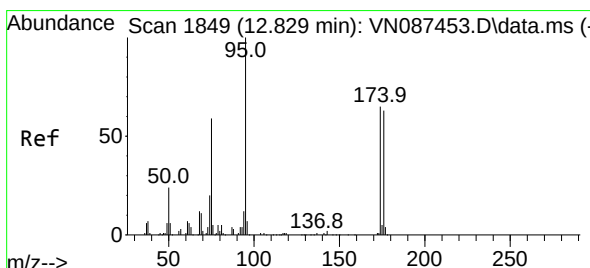
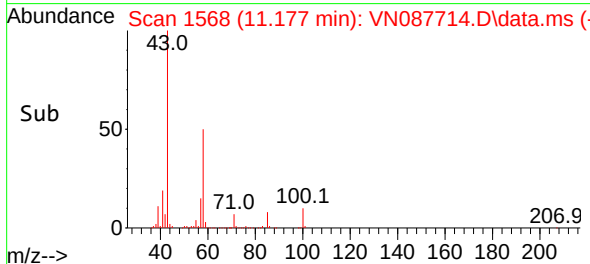
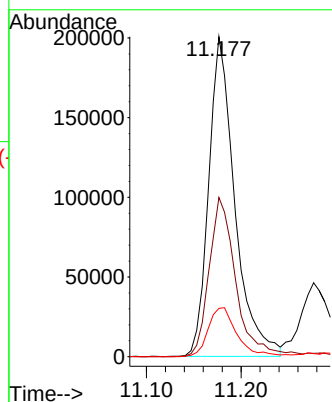
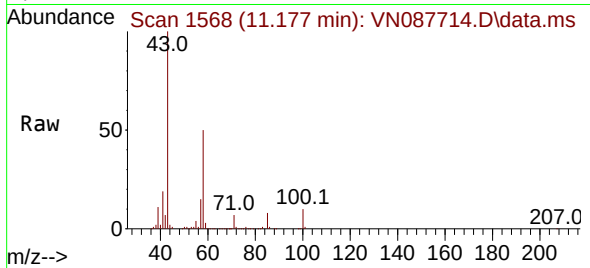




#59  
2-Hexanone  
Concen: 95.594 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

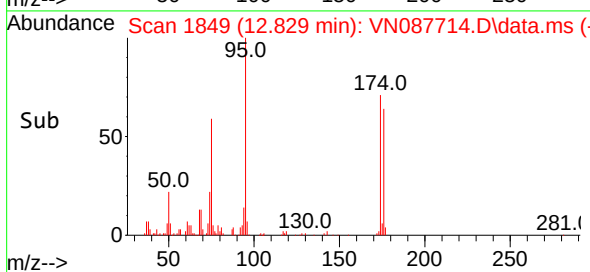
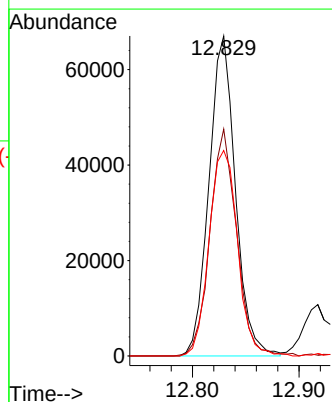
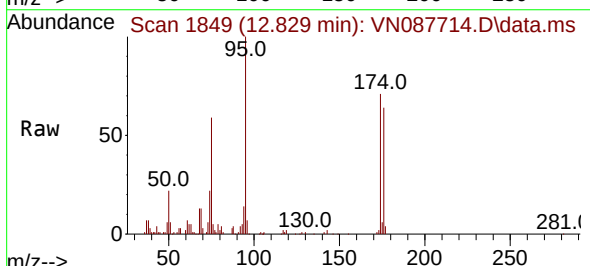
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 43 Resp: 384434  
Ion Ratio Lower Upper  
43 100  
58 50.5 41.0 61.6  
57 16.8 14.6 21.8

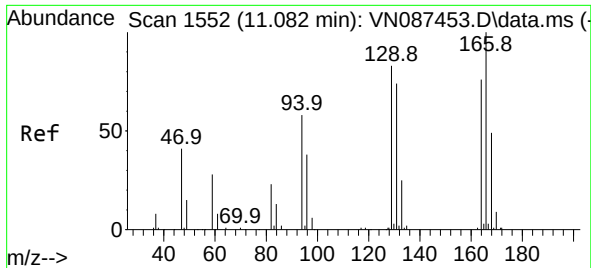


#60  
4-Bromofluorobenzene  
Concen: 29.288 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 95 Resp: 115967  
Ion Ratio Lower Upper  
95 100  
174 71.1 52.3 78.5  
176 68.9 49.8 74.8



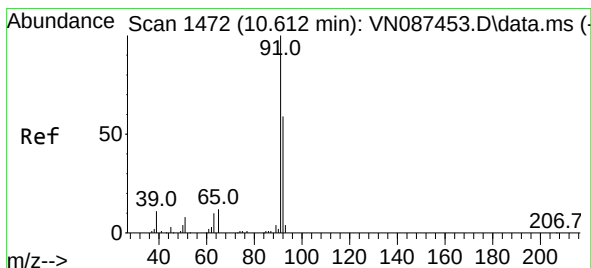
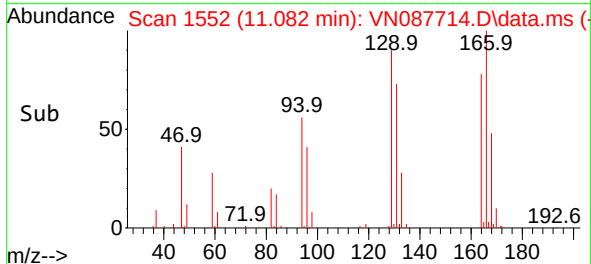
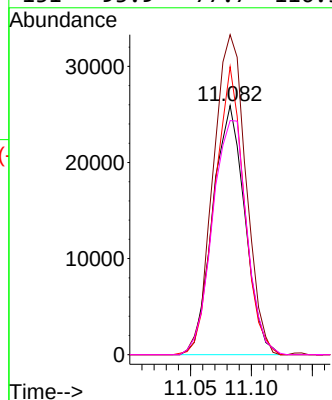
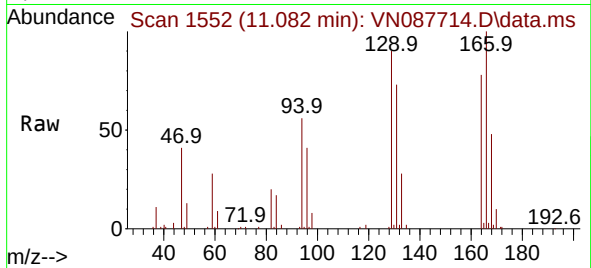




#61  
Tetrachloroethene  
Concen: 21.211 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

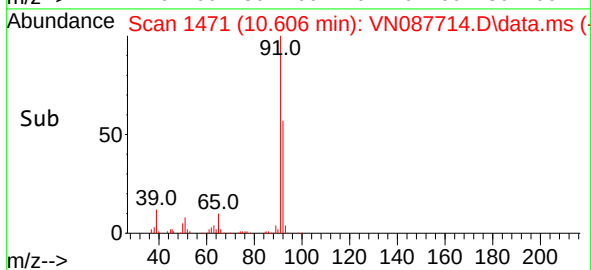
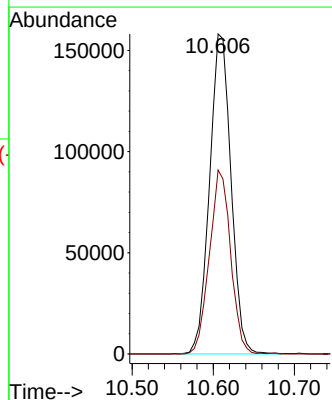
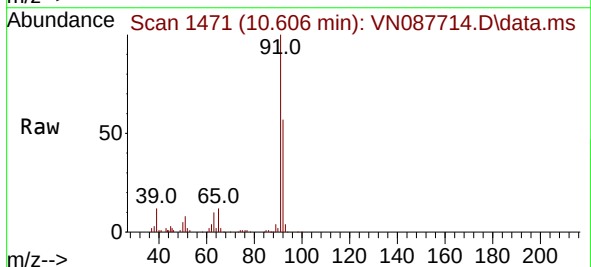
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

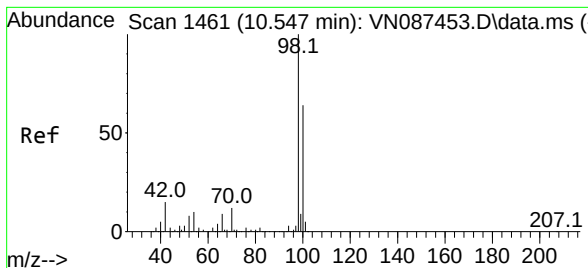
Tgt Ion:164 Resp: 47545  
Ion Ratio Lower Upper  
164 100  
166 128.4 105.4 158.0  
129 115.6 87.7 131.5  
131 93.9 77.7 116.5



#62  
Toluene  
Concen: 20.446 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 290343  
Ion Ratio Lower Upper  
91 100  
92 56.8 45.8 68.6





#63

Toluene-d8

Concen: 30.412 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA\_N

ClientSampleId :

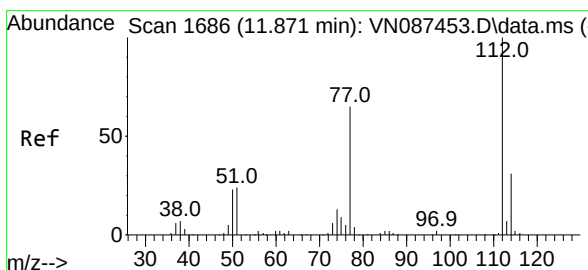
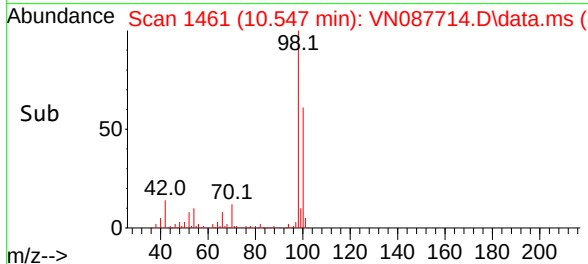
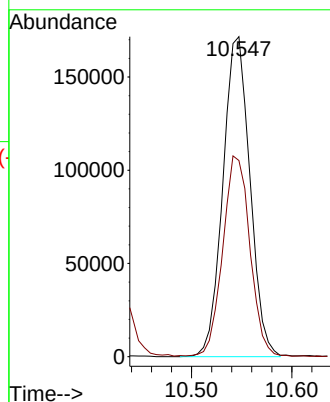
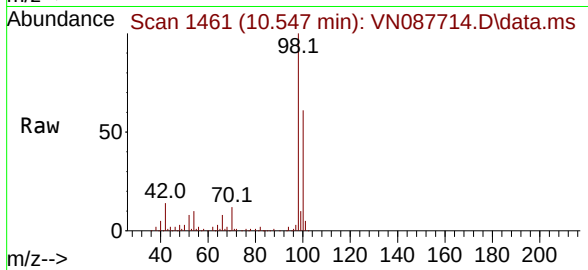
VSTDCCC020

Tgt Ion: 98 Resp: 321960

Ion Ratio Lower Upper

98 100

100 63.1 50.5 75.7



#64

Chlorobenzene

Concen: 20.801 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN087714.D

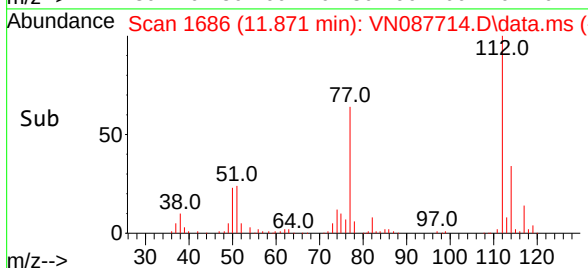
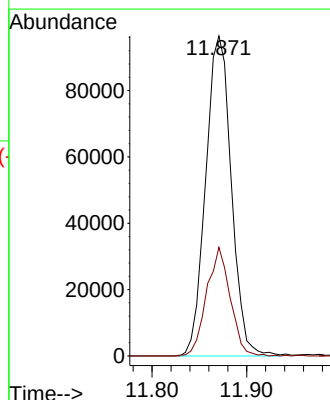
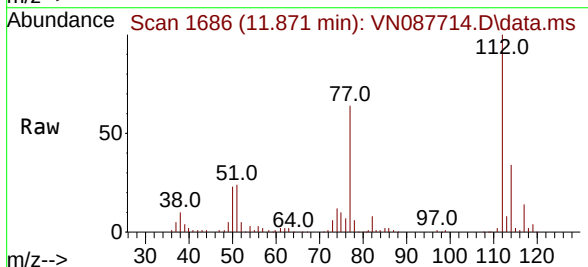
Acq: 04 Sep 2025 10:54

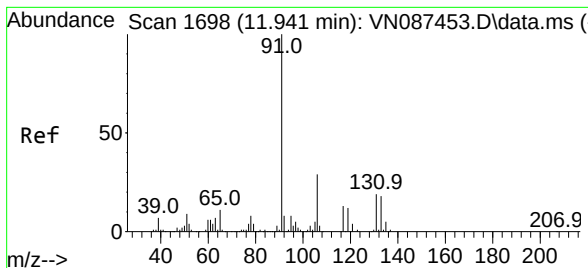
Tgt Ion: 112 Resp: 181508

Ion Ratio Lower Upper

112 100

114 33.9 24.7 37.1

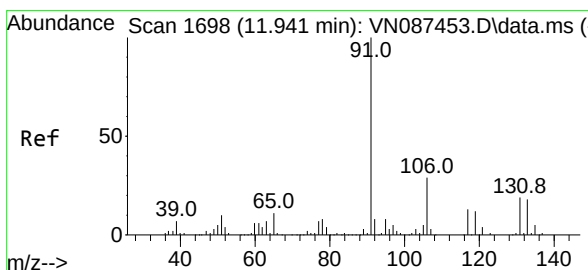
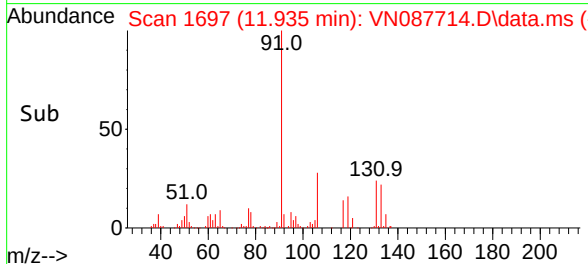
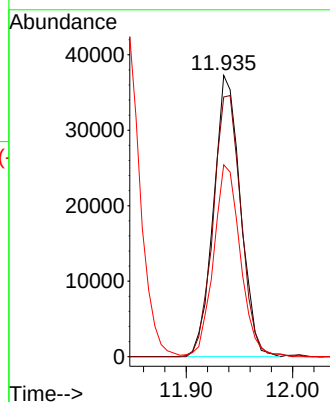
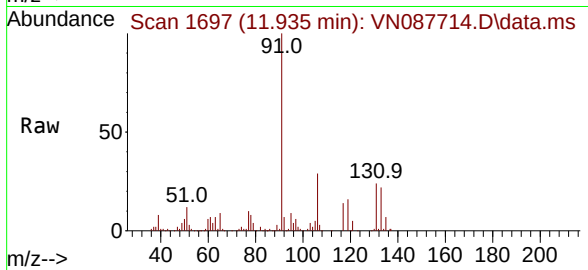




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 21.267 ug/l  
 RT: 11.935 min Scan# 1697  
 Delta R.T. -0.006 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

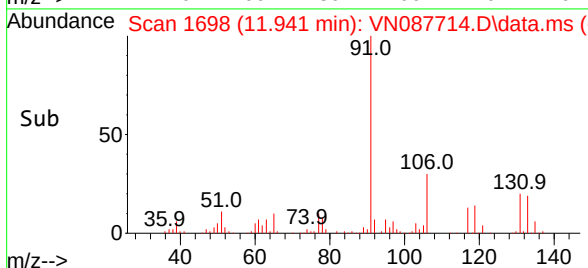
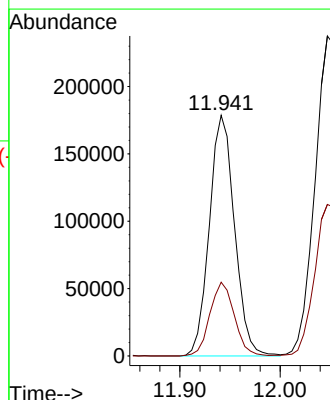
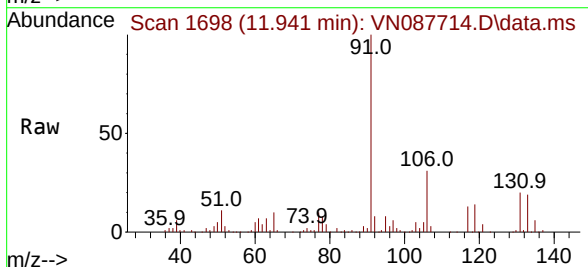
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

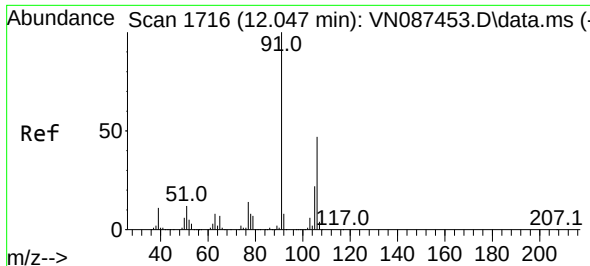
Tgt Ion:131 Resp: 65246  
 Ion Ratio Lower Upper  
 131 100  
 133 96.0 0.0 189.8  
 119 68.1 0.0 133.2



#66  
 Ethyl Benzene  
 Concen: 19.733 ug/l  
 RT: 11.941 min Scan# 1698  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 312337  
 Ion Ratio Lower Upper  
 91 100  
 106 30.7 22.9 34.3

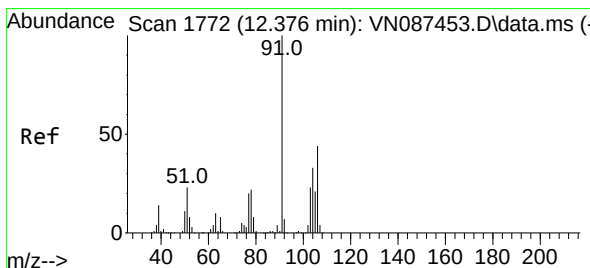
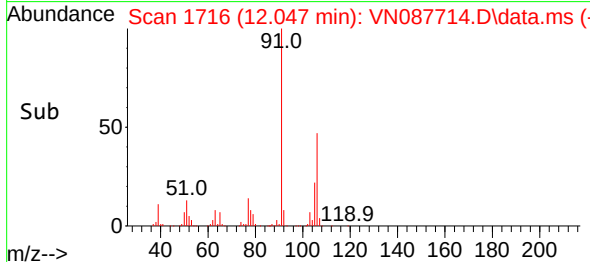
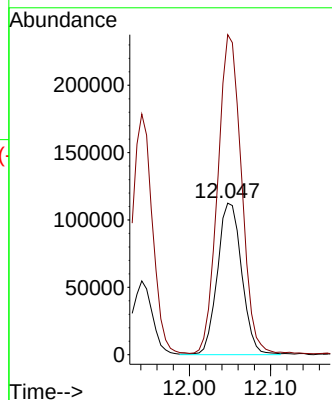
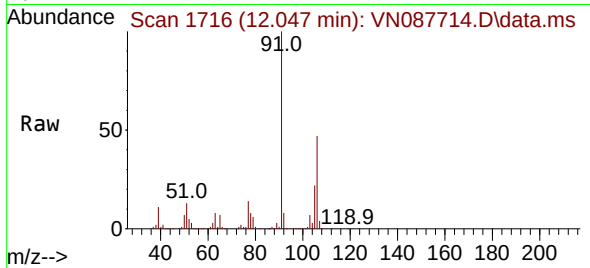




#67  
m/p-Xylenes  
Concen: 40.313 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

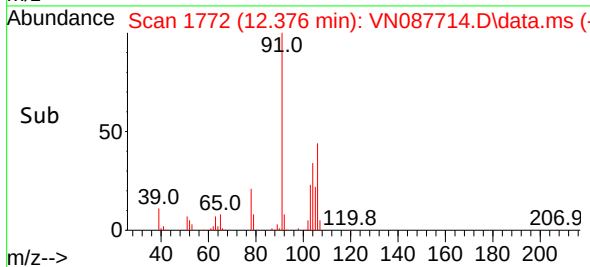
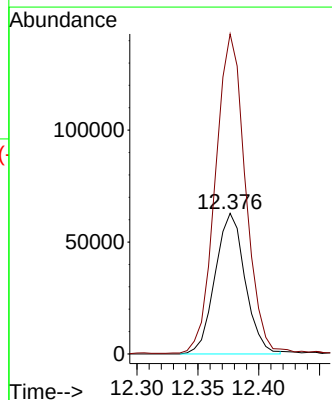
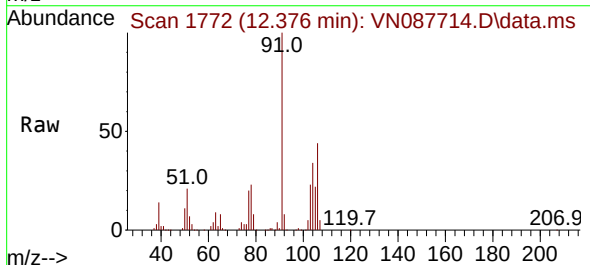
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

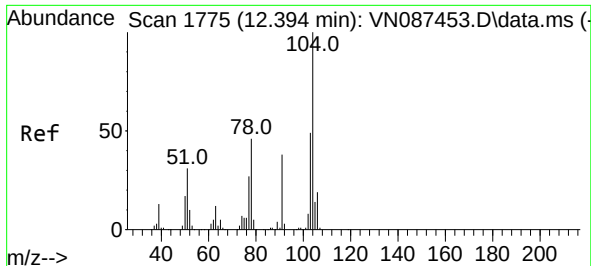
Tgt Ion:106 Resp: 234213  
Ion Ratio Lower Upper  
106 100  
91 204.3 174.2 261.2



#68  
o-Xylene  
Concen: 18.876 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:106 Resp: 107889  
Ion Ratio Lower Upper  
106 100  
91 225.3 114.5 343.5

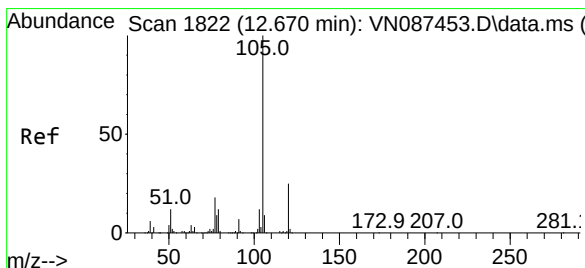
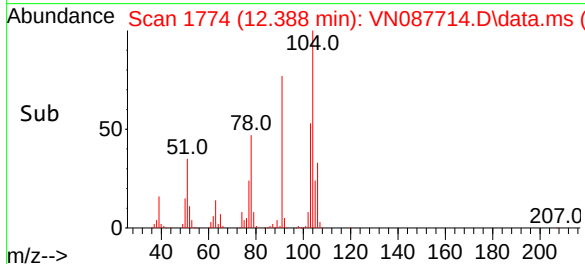
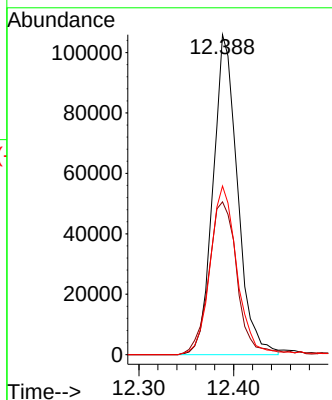
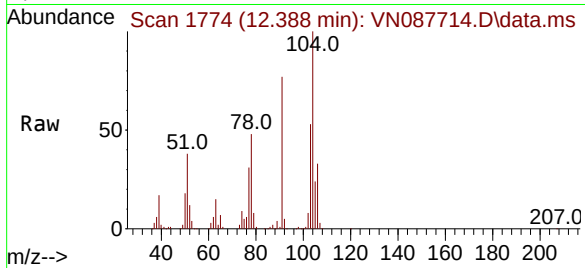




#69  
Styrene  
Concen: 19.476 ug/l  
RT: 12.388 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

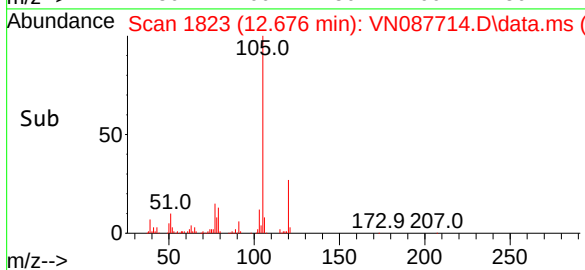
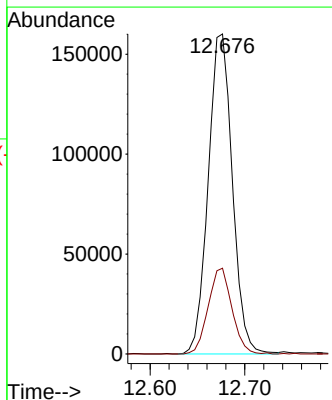
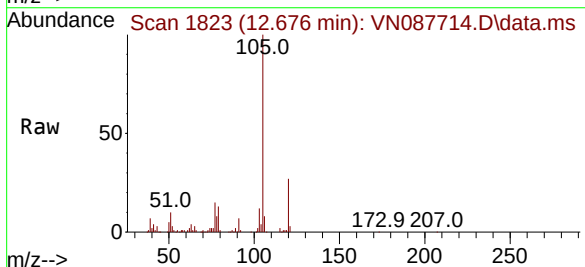
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

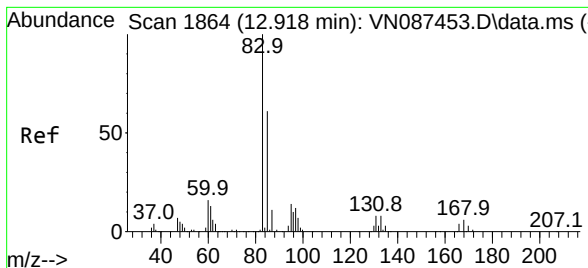
Tgt Ion:104 Resp: 190079  
Ion Ratio Lower Upper  
104 100  
78 55.5 43.8 65.8  
103 57.1 43.1 64.7



#70  
Isopropylbenzene  
Concen: 19.568 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:105 Resp: 284145  
Ion Ratio Lower Upper  
105 100  
120 26.2 17.5 32.5

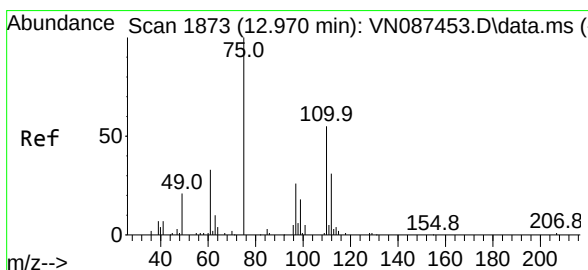
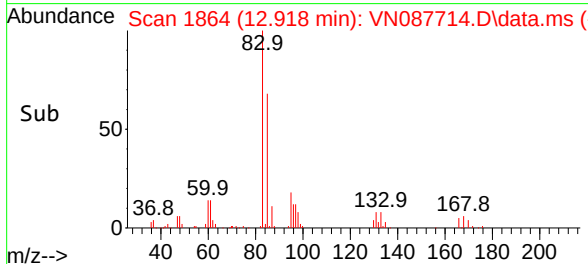
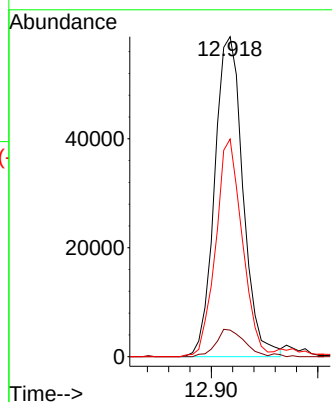
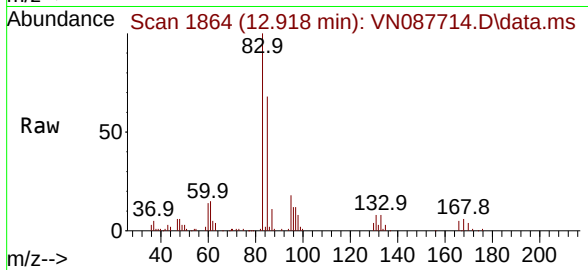




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 21.812 ug/l  
 RT: 12.918 min Scan# 1864  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

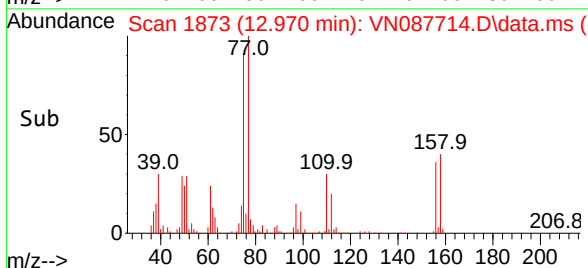
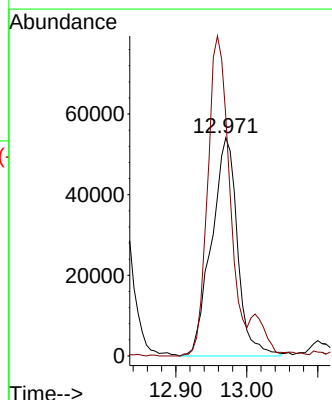
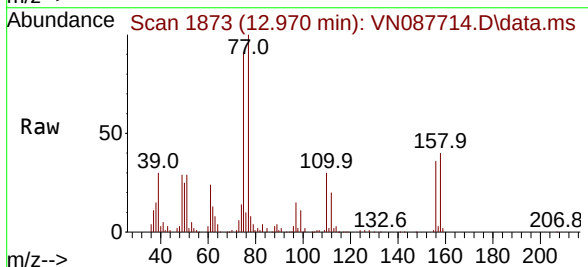
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

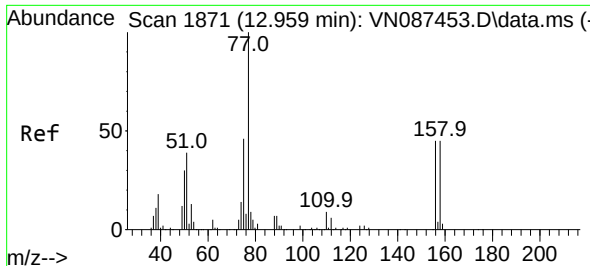
Tgt Ion: 83 Resp: 108523  
 Ion Ratio Lower Upper  
 83 100  
 131 8.5 4.8 14.3  
 85 63.5 31.7 95.1



#72  
 1,2,3-Trichloropropane  
 Concen: 29.641 ug/l  
 RT: 12.970 min Scan# 1873  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 137388  
 Ion Ratio Lower Upper  
 75 100  
 77 123.3 0.0 385.0

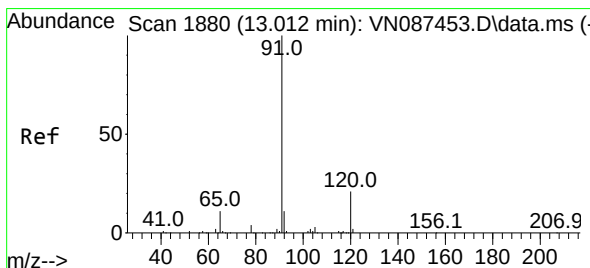
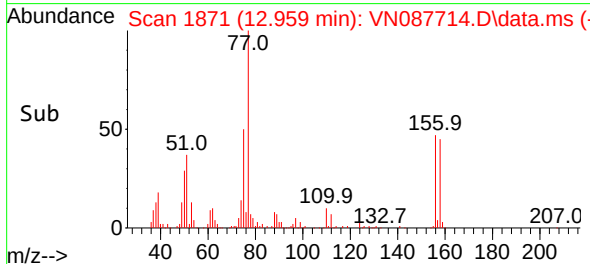
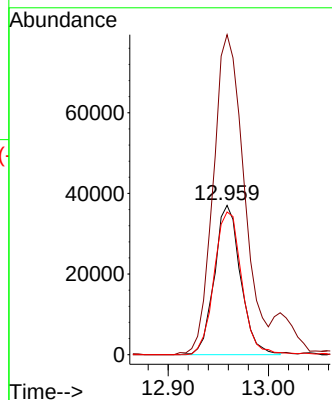
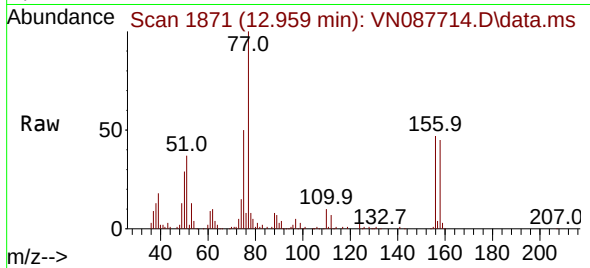




#73  
Bromobenzene  
Concen: 19.958 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

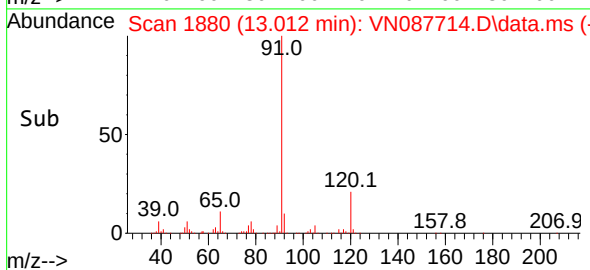
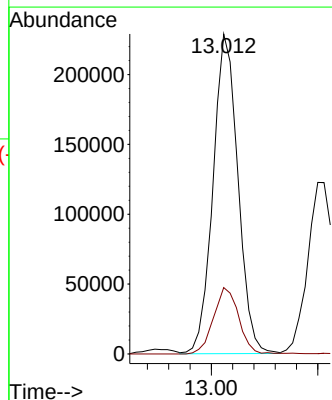
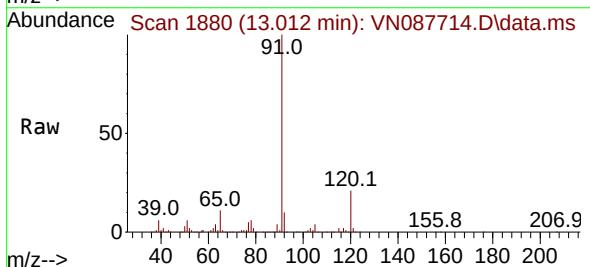
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

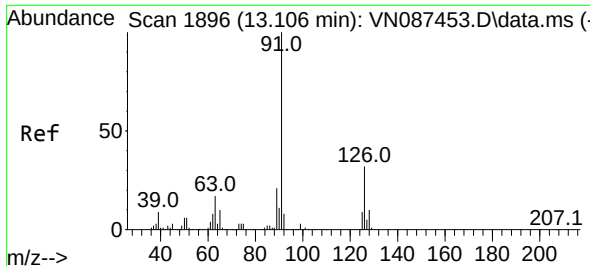
Tgt Ion:156 Resp: 67183  
Ion Ratio Lower Upper  
156 100  
77 252.2 0.0 506.6  
158 100.6 0.0 193.6



#74  
n-propylbenzene  
Concen: 20.500 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 371779  
Ion Ratio Lower Upper  
91 100  
120 20.7 0.0 41.8

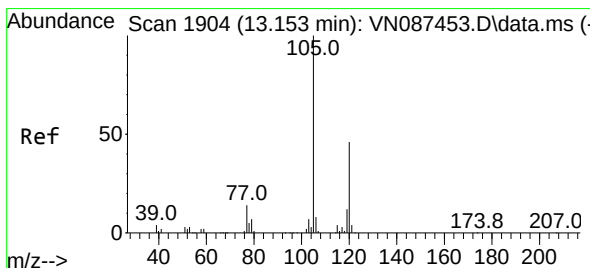
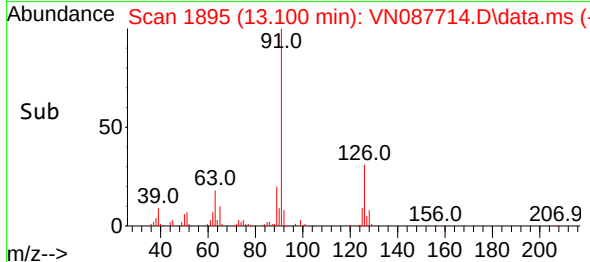
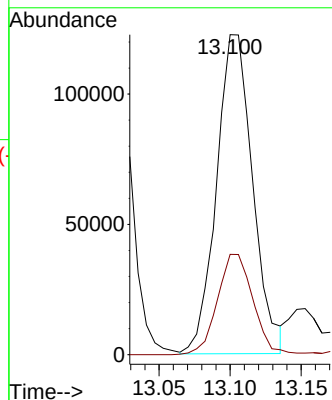
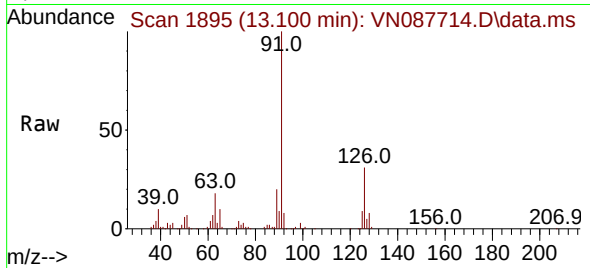




#75  
2-Chlorotoluene  
Concen: 19.495 ug/l  
RT: 13.100 min Scan# 1895  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

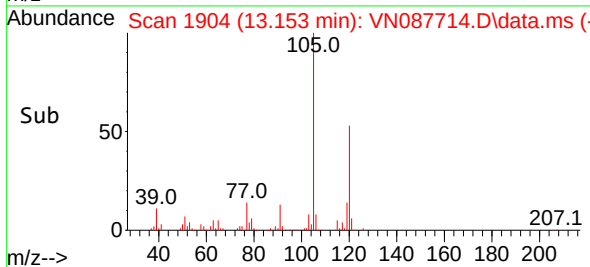
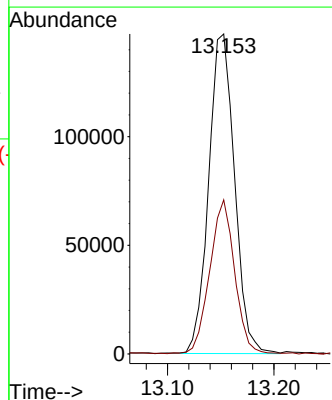
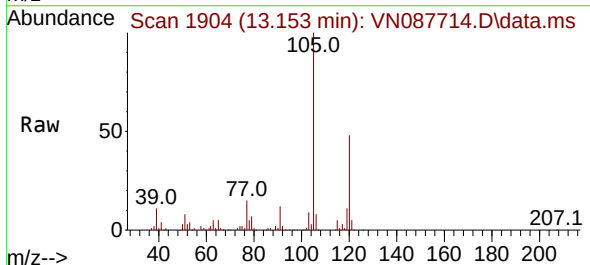
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 91 Resp: 217479  
Ion Ratio Lower Upper  
91 100  
126 30.8 0.0 60.4

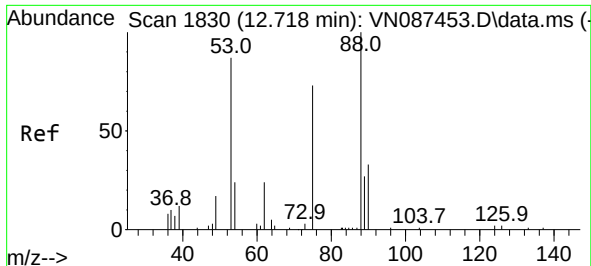


#76  
1,3,5-Trimethylbenzene  
Concen: 19.937 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 105 Resp: 247884  
Ion Ratio Lower Upper  
105 100  
120 46.4 0.0 91.2



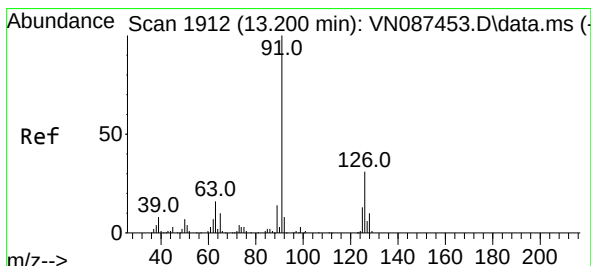
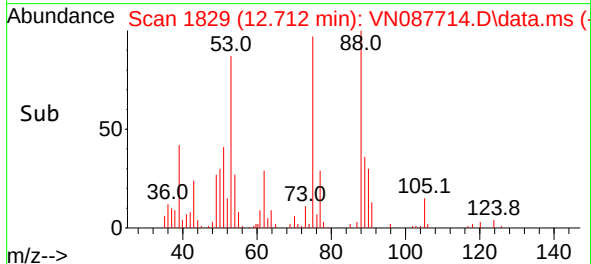
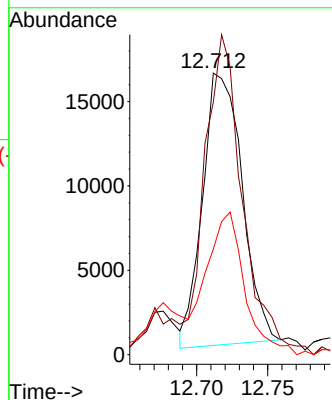
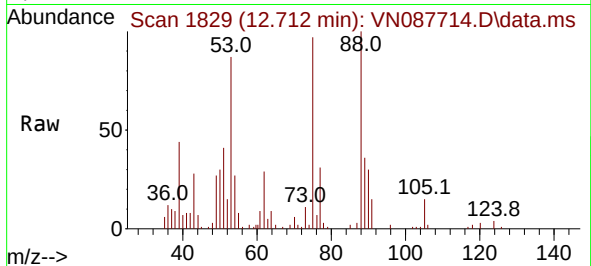




#77  
t-1,4-Dichloro-2-butene  
Concen: 17.800 ug/l  
RT: 12.712 min Scan# 1830  
Delta R.T. -0.006 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

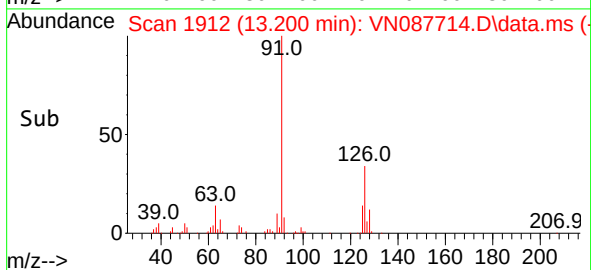
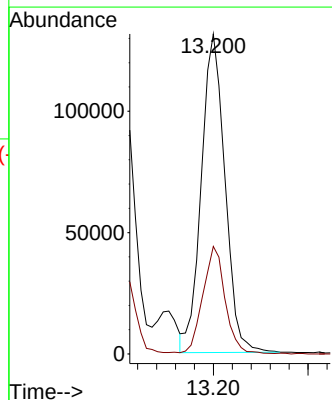
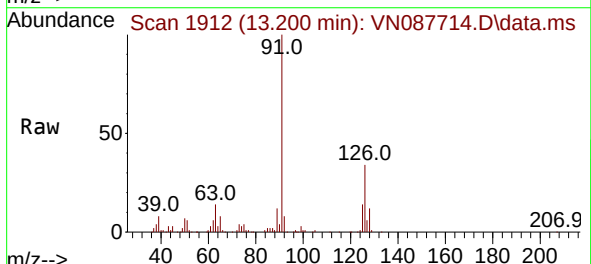
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

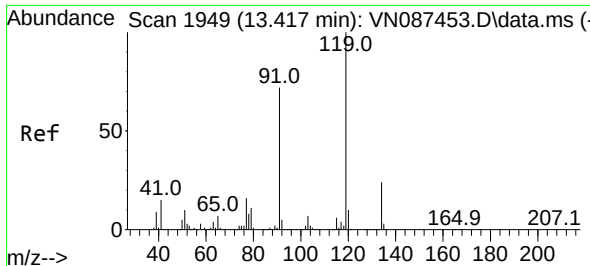
Tgt Ion: 75 Resp: 31232  
Ion Ratio Lower Upper  
75 100  
53 88.6 59.0 176.8  
89 36.3 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 20.115 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 227394  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 63.2

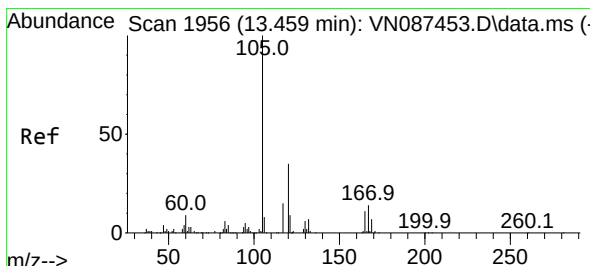
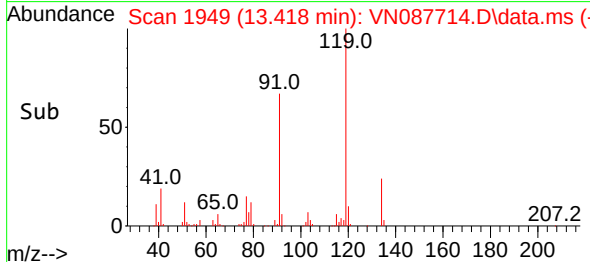
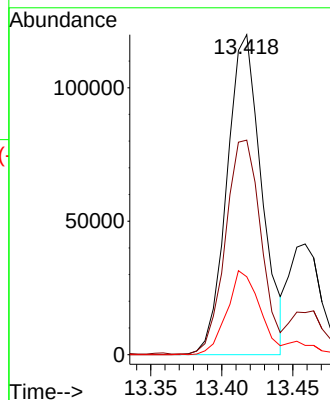
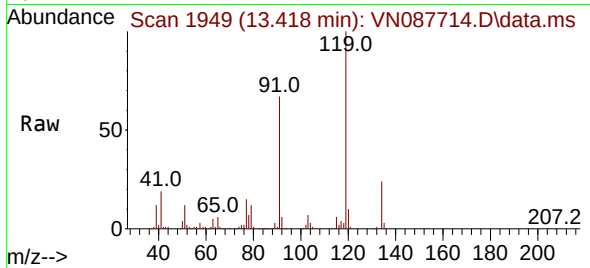




#79  
tert-butylbenzene  
Concen: 19.444 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

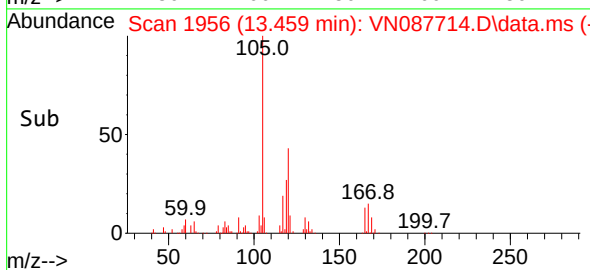
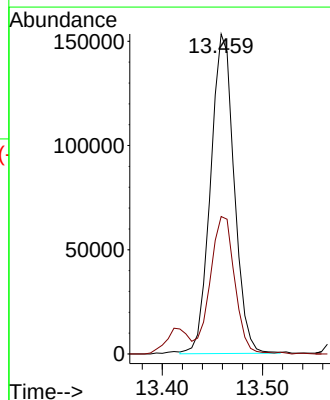
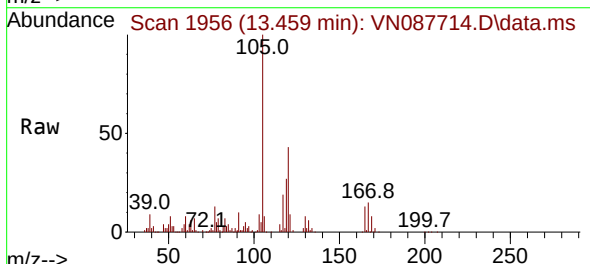
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

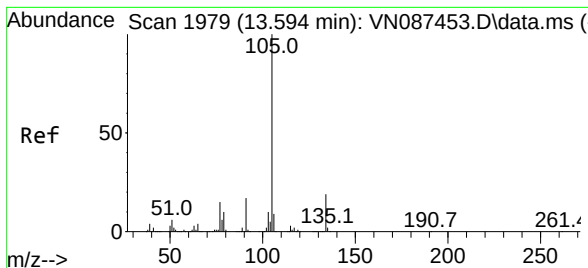
Tgt Ion:119 Resp: 203826  
Ion Ratio Lower Upper  
119 100  
91 68.1 0.0 141.6  
134 24.8 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 20.173 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:105 Resp: 250626  
Ion Ratio Lower Upper  
105 100  
120 44.8 0.0 87.2

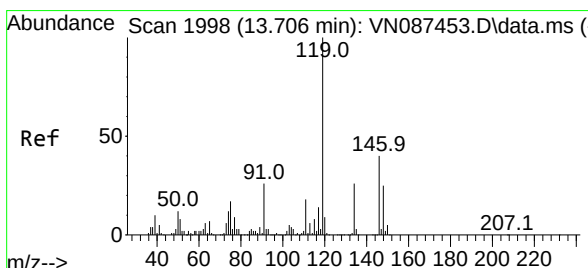
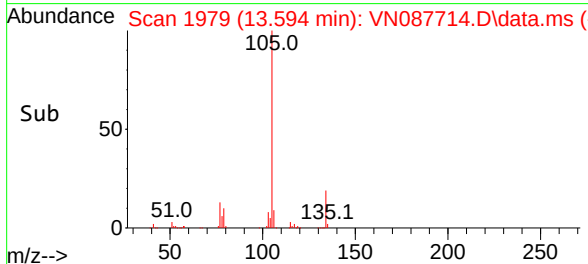
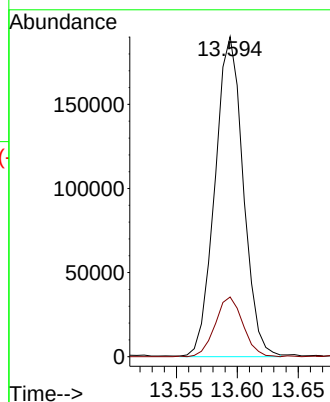
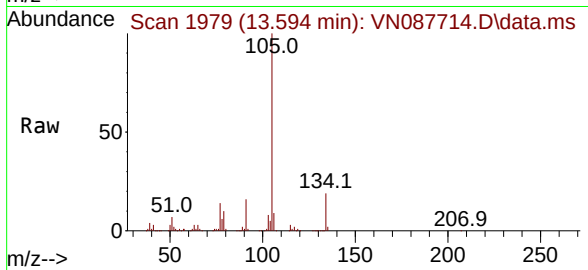




#81  
 sec-Butylbenzene  
 Concen: 20.195 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

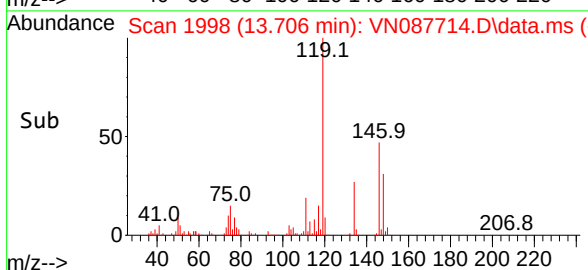
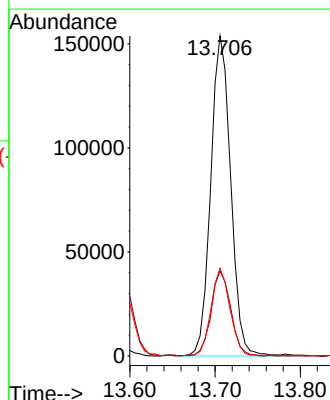
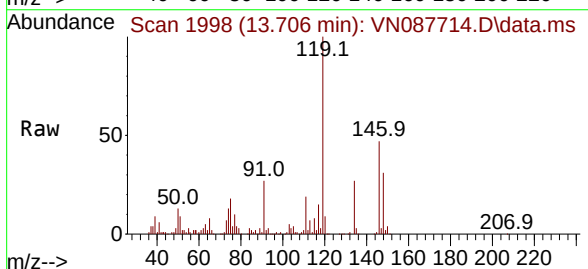
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

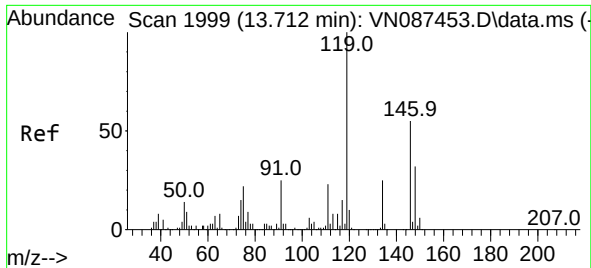
Tgt Ion:105 Resp: 308192  
 Ion Ratio Lower Upper  
 105 100  
 134 18.2 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 19.739 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion:119 Resp: 250110  
 Ion Ratio Lower Upper  
 119 100  
 134 25.8 0.0 51.4  
 91 26.3 0.0 52.0

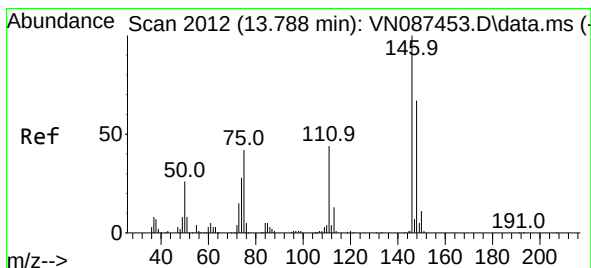
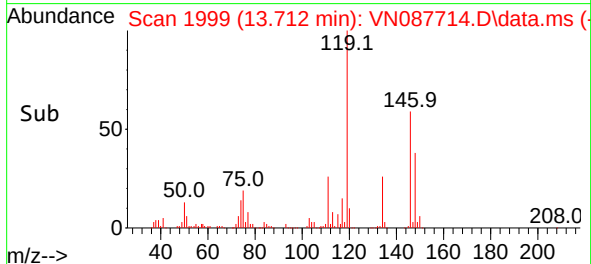
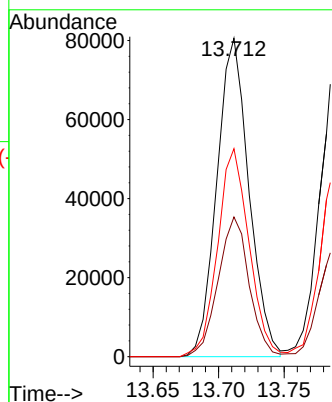
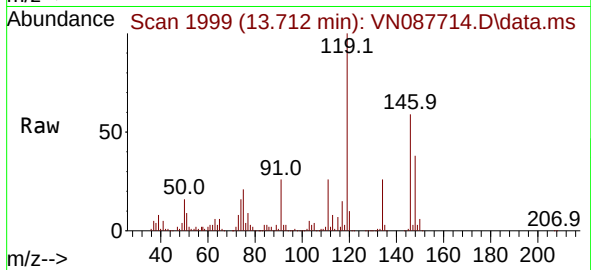




#83  
1,3-Dichlorobenzene  
Concen: 21.371 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

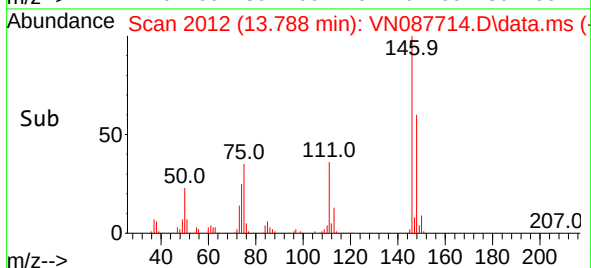
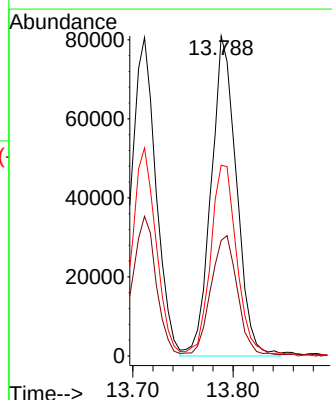
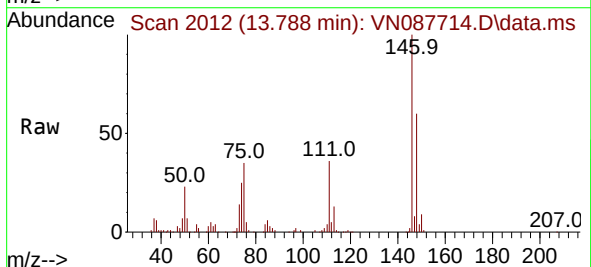
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

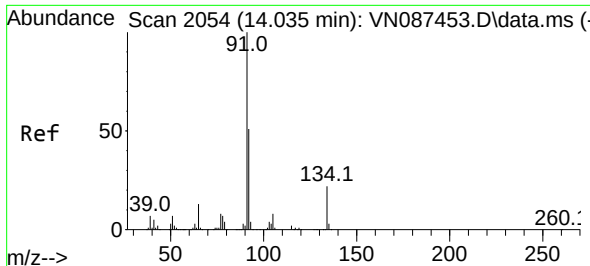
Tgt Ion:146 Resp: 136995  
Ion Ratio Lower Upper  
146 100  
111 42.7 21.9 65.5  
148 64.2 31.3 93.9



#84  
1,4-Dichlorobenzene  
Concen: 21.893 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:146 Resp: 142283  
Ion Ratio Lower Upper  
146 100  
111 39.5 21.1 63.1  
148 61.7 31.4 94.3

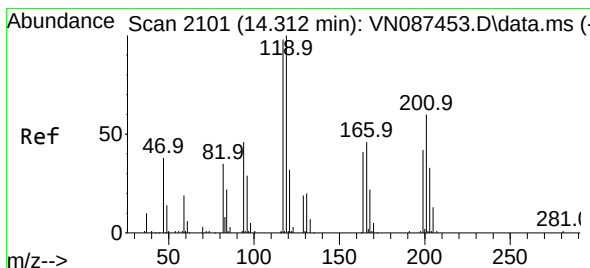
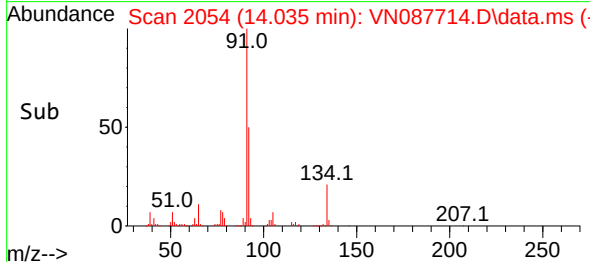
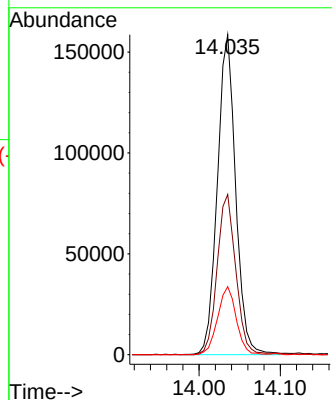
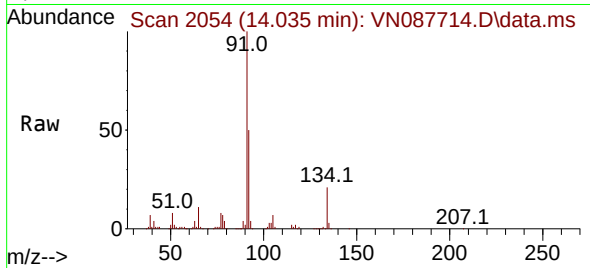




#85  
n-Butylbenzene  
Concen: 20.078 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

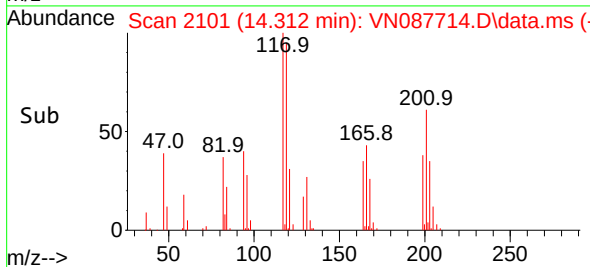
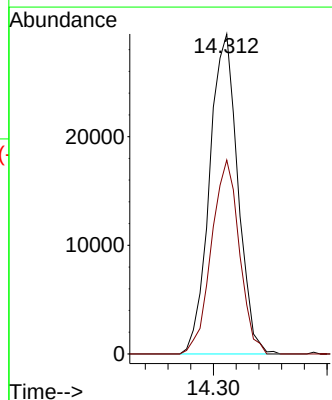
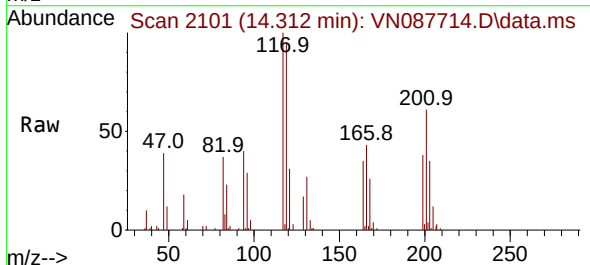
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

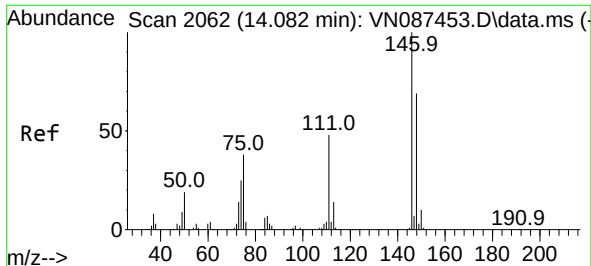
Tgt Ion: 91 Resp: 248913  
Ion Ratio Lower Upper  
91 100  
92 50.7 0.0 106.6  
134 21.7 0.0 44.4



#86  
Hexachloroethane  
Concen: 20.565 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion: 117 Resp: 50886  
Ion Ratio Lower Upper  
117 100  
201 59.9 29.1 87.4

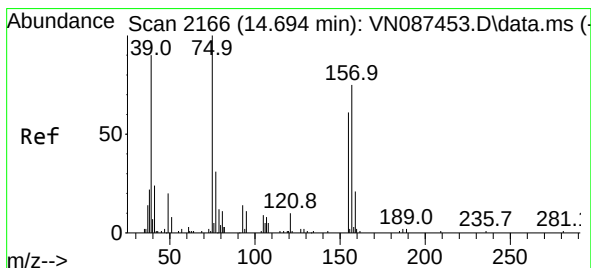
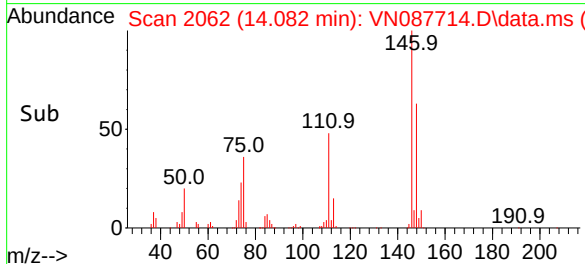
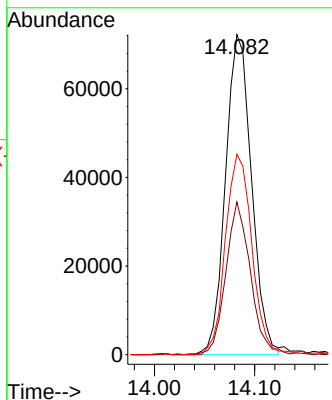
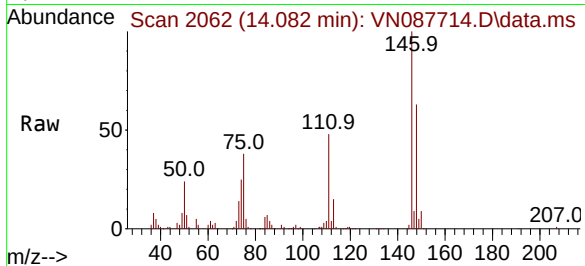




#87  
 1,2-Dichlorobenzene  
 Concen: 21.300 ug/l  
 RT: 14.082 min Scan# 2062  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

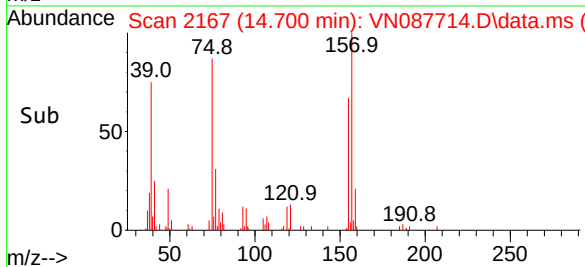
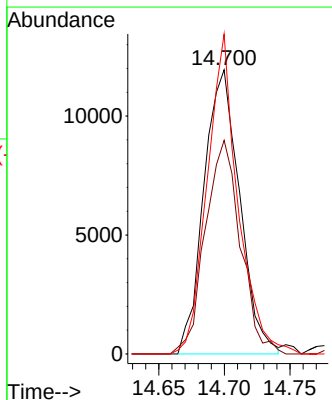
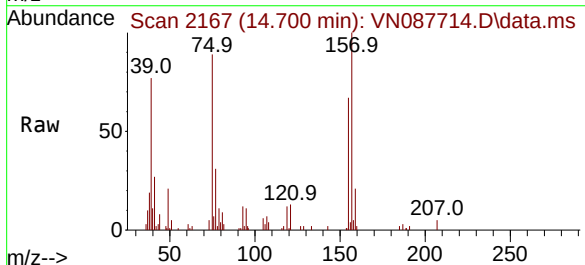
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

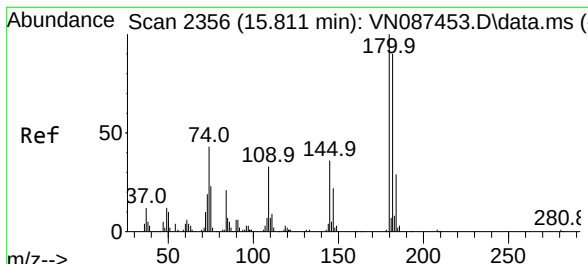
Tgt Ion:146 Resp: 130330  
 Ion Ratio Lower Upper  
 146 100  
 111 44.9 22.9 68.7  
 148 63.7 31.6 94.7



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 17.995 ug/l  
 RT: 14.700 min Scan# 2167  
 Delta R.T. 0.006 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 22682  
 Ion Ratio Lower Upper  
 75 100  
 155 73.8 55.7 83.5  
 157 97.0 65.8 98.6

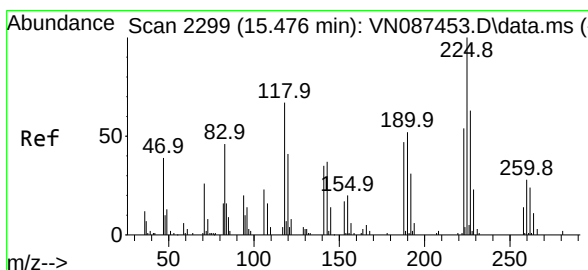
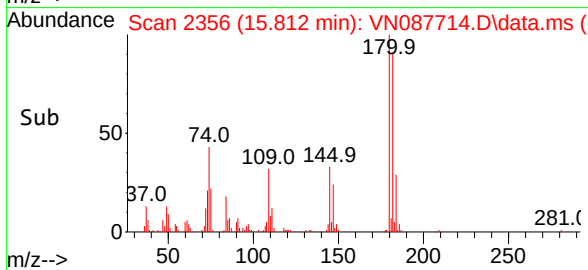
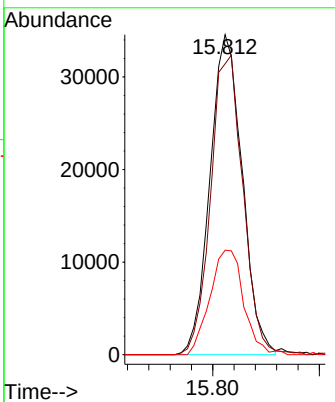
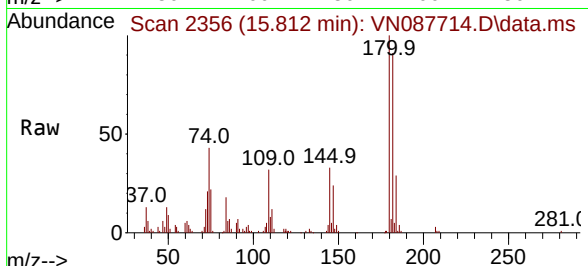




#89  
 1,2,4-Trichlorobenzene  
 Concen: 19.850 ug/l  
 RT: 15.812 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

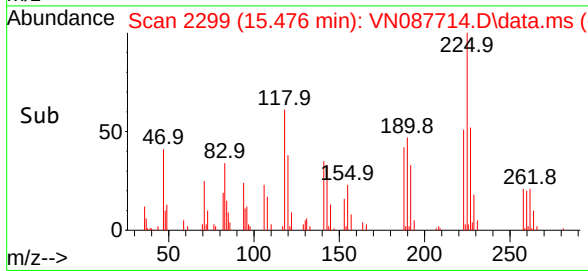
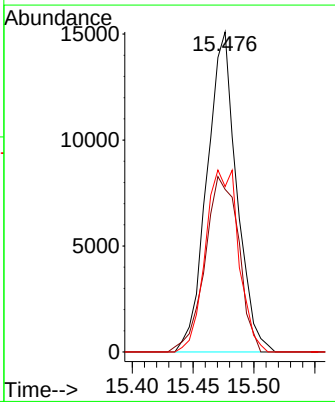
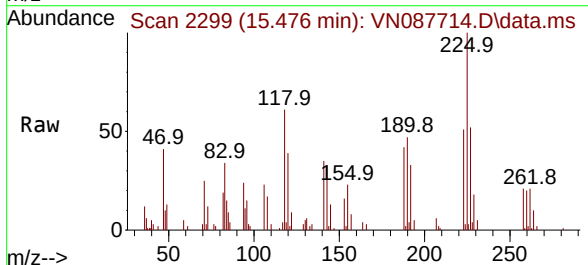
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020

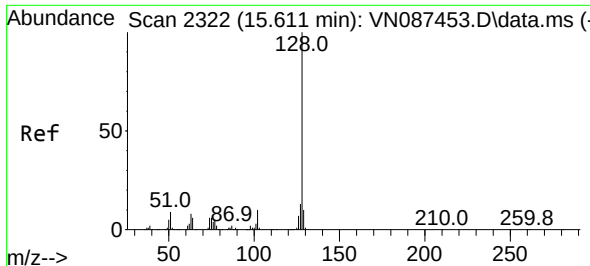
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 72588 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.7  | 75.0  | 112.4 |
| 145       | 33.9  | 28.6  | 43.0  |



#90  
 Hexachlorobutadiene  
 Concen: 18.070 ug/l  
 RT: 15.476 min Scan# 2299  
 Delta R.T. 0.000 min  
 Lab File: VN087714.D  
 Acq: 04 Sep 2025 10:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 25695 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 61.8  | 0.0   | 116.0 |
| 227       | 41.7  | 0.0   | 127.0 |

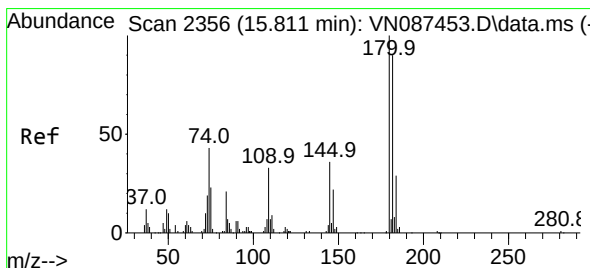
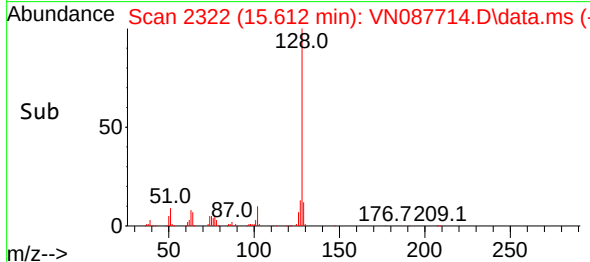
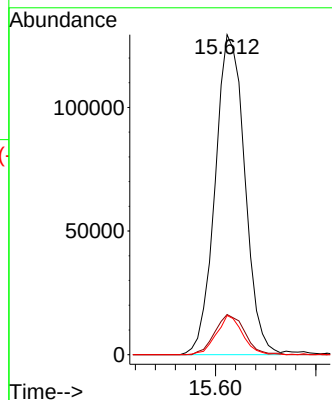
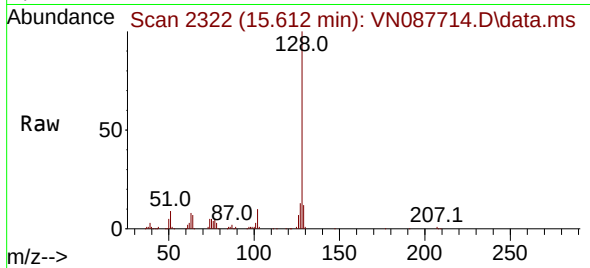




#91  
Naphthalene  
Concen: 19.078 ug/l  
RT: 15.612 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

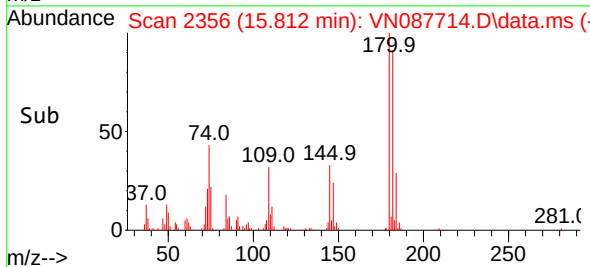
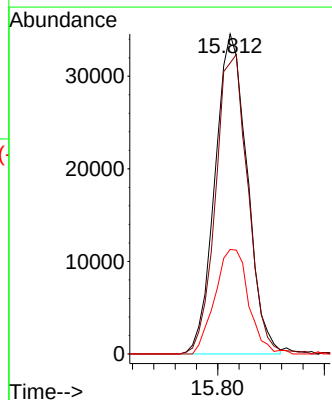
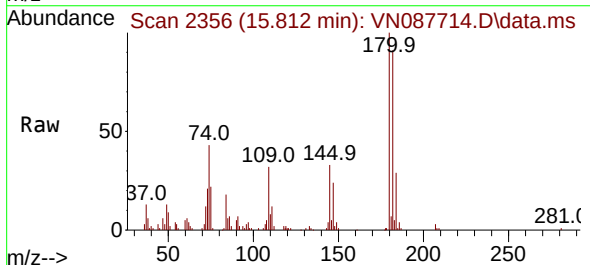
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:128 Resp: 266009  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.2 15.4  
129 10.7 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 19.850 ug/l  
RT: 15.812 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087714.D  
Acq: 04 Sep 2025 10:54

Tgt Ion:180 Resp: 72588  
Ion Ratio Lower Upper  
180 100  
182 93.7 0.0 187.4  
145 33.9 0.0 71.6





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.794  | 128   | 43425    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 231247   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 210355   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 114466   | 28.579   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 95.267%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 99936    | 27.606   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 92.033%  |
| 63) Toluene-d8               | 10.547 | 98    | 291239   | 30.090   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 100.300% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 54934    | 19.376   | ug/l   | 99       |
| 3) Chloromethane             | 2.383  | 50    | 54828    | 18.849   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.536  | 62    | 62242    | 20.174   | ug/l   | 91       |
| 5) Bromomethane              | 2.983  | 94    | 43809    | 26.234   | ug/l   | 87       |
| 6) Chloroethane              | 3.142  | 64    | 41428    | 20.824   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 97817    | 22.030   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959  | 74    | 38375    | 20.745   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359  | 101   | 26377    | 11.649   | ug/l # | 13       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 53428    | 22.464   | ug/l   | 85       |
| 11) Methyl Iodide            | 4.577  | 142   | 33539    | 17.910   | ug/l   | 96       |
| 12) Methyl Acetate           | 5.018  | 43    | 95525    | 21.765   | ug/l   | 93       |
| 13) Acrolein                 | 4.177  | 56    | 63454    | 94.659   | ug/l   | 99       |
| 14) Acrylonitrile            | 5.700  | 53    | 171327   | 89.396   | ug/l   | 99       |
| 15) Acetone                  | 4.424  | 58    | 55649    | 101.625  | ug/l   | 96       |
| 16) Carbon Disulfide         | 4.700  | 76    | 133566   | 18.104   | ug/l   | 99       |
| 17) Allyl chloride           | 5.012  | 41    | 85883    | 17.716   | ug/l   | 88       |
| 18) Methylene Chloride       | 5.265  | 84    | 57999    | 18.943   | ug/l   | 87       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 51291    | 18.135   | ug/l # | 86       |
| 20) Diisopropyl ether        | 6.653  | 45    | 195895   | 17.739   | ug/l   | 93       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 108065   | 18.931   | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 63685    | 18.300   | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 5.524  | 59    | 61811    | 75.900   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 185640   | 17.130   | ug/l   | 96       |
| 25) Chloroform               | 7.947  | 83    | 112463   | 18.874   | ug/l   | 91       |
| 26) Cyclohexane              | 8.241  | 56    | 79309    | 17.353   | ug/l # | 94       |
| 29) 1,1-Dichloropropene      | 8.347  | 75    | 73391    | 19.459   | ug/l   | 97       |
| 30) 2-Butanone               | 7.465  | 43    | 254727   | 91.624   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.477  | 77    | 94769    | 19.482   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.147  | 97    | 95796    | 19.915   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 77776    | 19.463   | ug/l   | 98       |
| 34) Benzene                  | 8.588  | 78    | 227927   | 19.144   | ug/l   | 94       |
| 35) Methacrylonitrile        | 7.765  | 41    | 50954    | 16.984   | ug/l   | 94       |
| 36) 1,2-Dichloroethane       | 8.647  | 62    | 88092    | 18.306   | ug/l   | 100      |
| 37) Trichloroethene          | 9.335  | 130   | 50547    | 19.274   | ug/l   | 83       |
| 38) Methylcyclohexane        | 9.582  | 83    | 77129    | 17.627   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 59488    | 19.488   | ug/l   | 96       |
| 40) Dibromomethane           | 9.688  | 93    | 45777    | 19.987   | ug/l   | 96       |
| 41) Bromodichloromethane     | 9.865  | 83    | 90003    | 18.911   | ug/l   | 88       |
| 42) Vinyl Acetate            | 6.588  | 43    | 788902   | 86.167   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

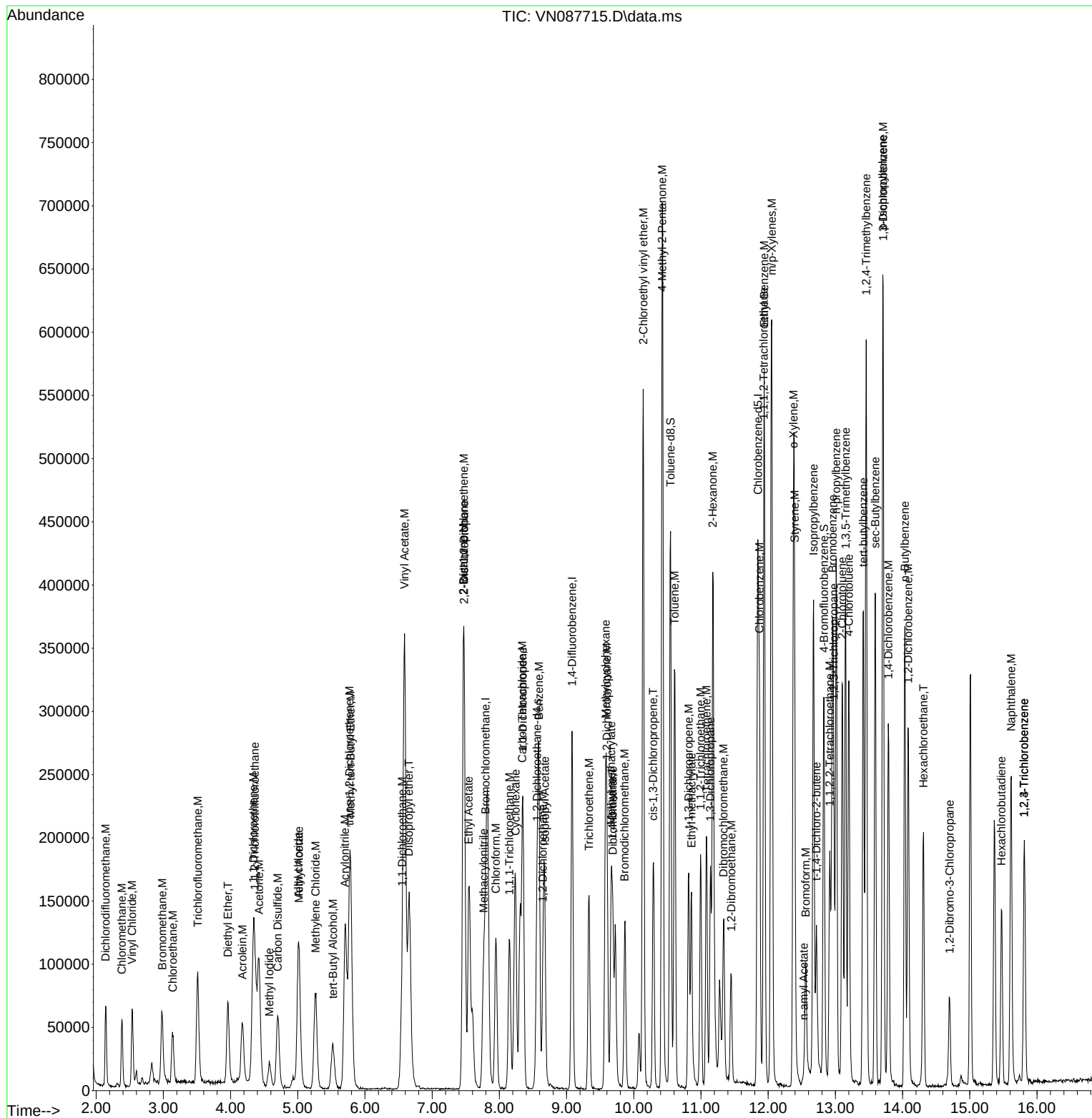
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.541  | 43   | 96992    | 18.059  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 160457   | 17.624  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 19577    | 337.304 | ug/l # | 88       |
| 46) Methyl methacrylate       | 9.665  | 41   | 70145    | 16.322  | ug/l   | 82       |
| 47) n-amyl Acetate            | 12.529 | 43   | 5059     | 1.006   | ug/l # | 62       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 91571    | 17.686  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 96006    | 18.425  | ug/l   | 90       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 56983    | 19.692  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 85447    | 16.766  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 98490    | 18.892  | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.335 | 129  | 62738    | 18.773  | ug/l   | 96       |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 59585    | 19.397  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 236450   | 88.133  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 39771    | 17.992  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.423 | 43   | 493774   | 91.248  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 307348   | 83.593  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 41450    | 20.226  | ug/l   | 94       |
| 62) Toluene                   | 10.606 | 91   | 246270   | 18.968  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 153403   | 19.229  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 53989    | 19.248  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 265786   | 18.367  | ug/l   | 99       |
| 67) m/p-Xylenes               | 12.053 | 106  | 199557   | 37.569  | ug/l   | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 93531    | 17.899  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 160997   | 18.043  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 246218   | 18.546  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 89634    | 19.705  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 112967   | 26.658  | ug/l   | 57       |
| 73) Bromobenzene              | 12.959 | 156  | 60686    | 19.718  | ug/l   | 94       |
| 74) n-propylbenzene           | 13.012 | 91   | 312613   | 18.854  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 190294   | 18.658  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 208218   | 18.317  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 26432    | 16.477  | ug/l   | 86       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 194600   | 18.828  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.417 | 119  | 177581   | 18.529  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 211280   | 18.601  | ug/l   | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 262011   | 18.779  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 218207   | 18.836  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 113472   | 19.362  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 117304   | 19.743  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 208098   | 18.360  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 43424    | 19.195  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 110728   | 19.793  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 20838    | 18.083  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 15.806 | 180  | 61968    | 18.535  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 22537    | 17.336  | ug/l   | 89       |
| 91) Naphthalene               | 15.617 | 128  | 221459   | 17.372  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.806 | 180  | 61968    | 18.535  | ug/l   | 99       |

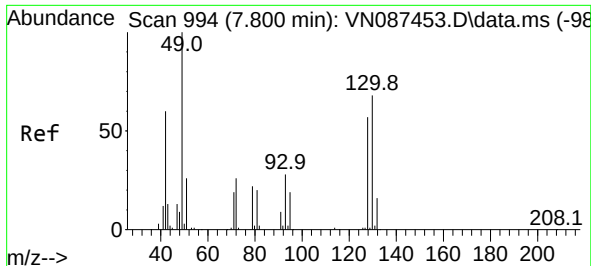
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 Data File : VN087715.D  
 Acq On : 04 Sep 2025 12:04  
 Operator : JC\MD  
 Sample : VN0904WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

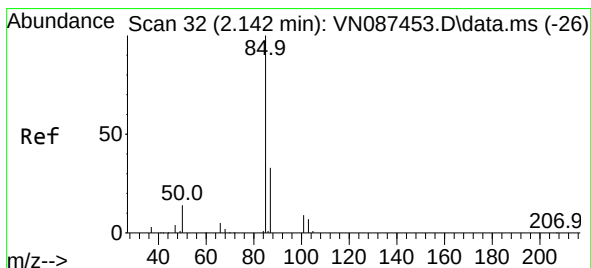
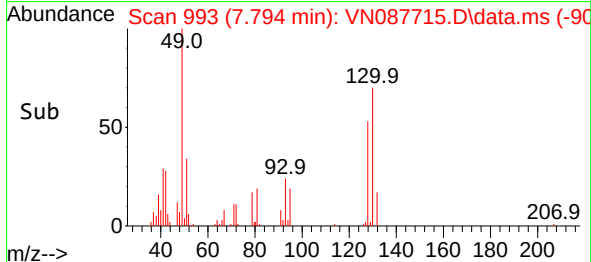
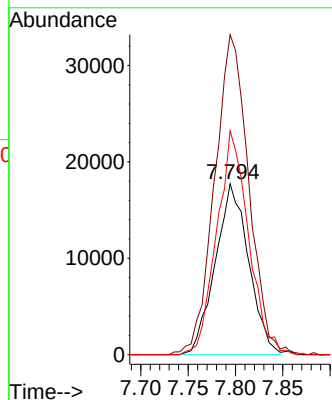
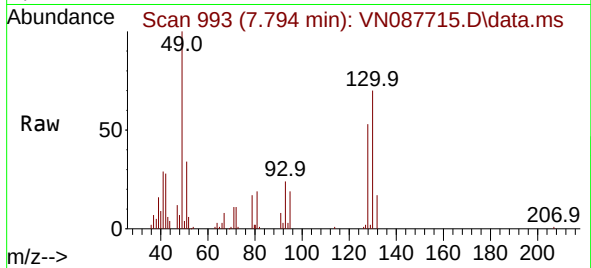




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

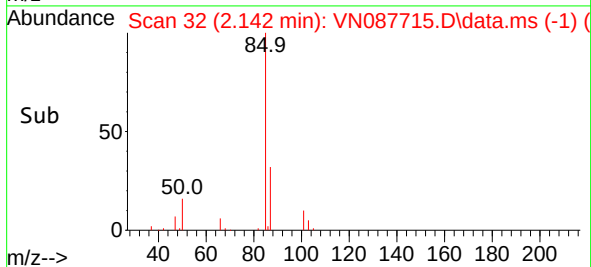
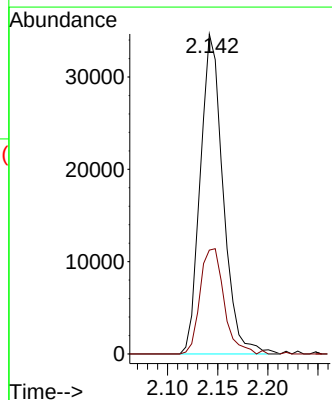
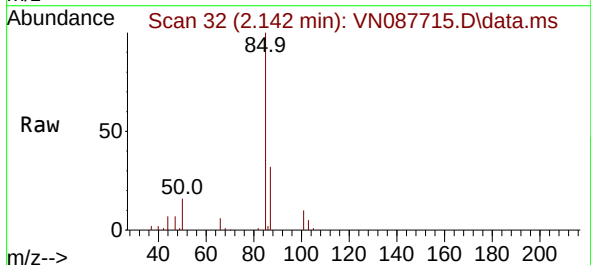
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

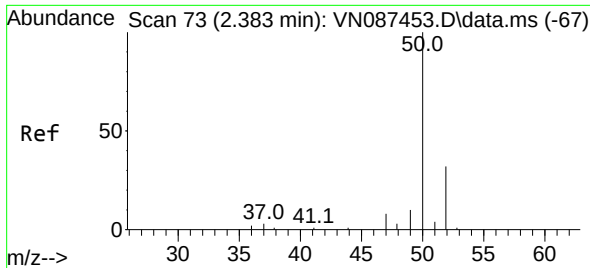
Tgt Ion:128 Resp: 43425  
Ion Ratio Lower Upper  
128 100  
49 191.6 0.0 494.8  
130 124.5 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 19.376 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 85 Resp: 54934  
Ion Ratio Lower Upper  
85 100  
87 32.5 16.4 49.2

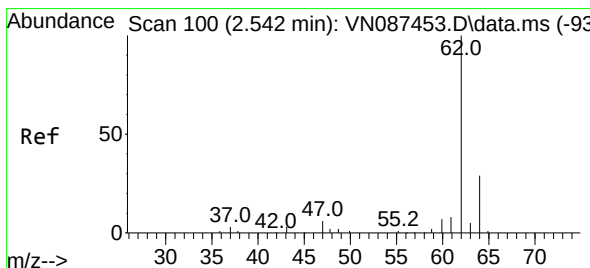
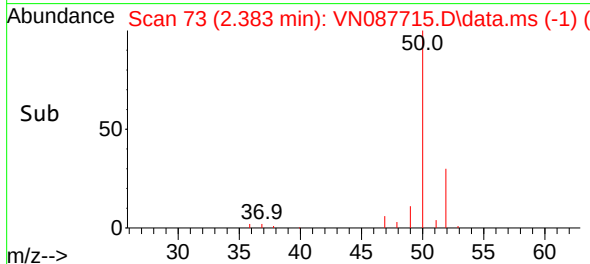
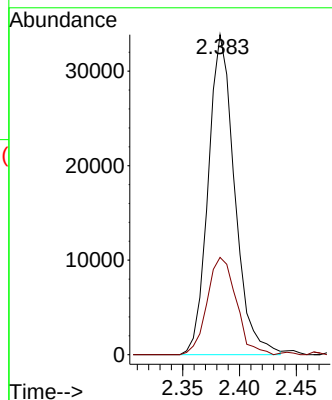
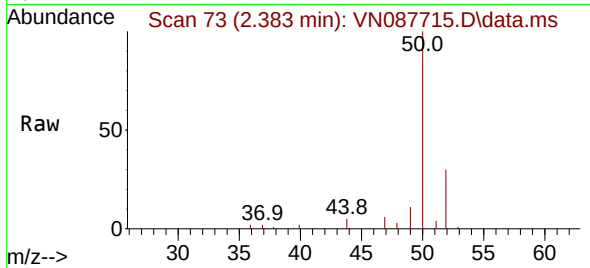




#3  
Chloromethane  
Concen: 18.849 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

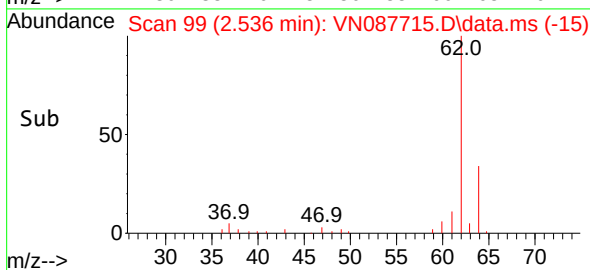
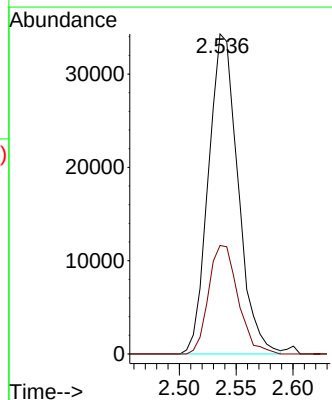
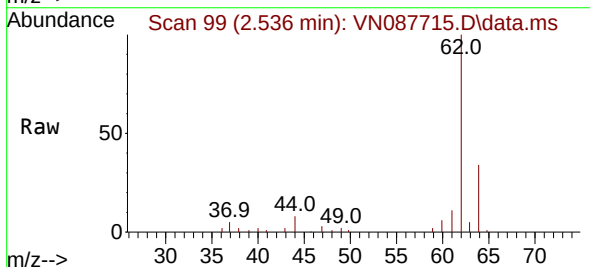
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

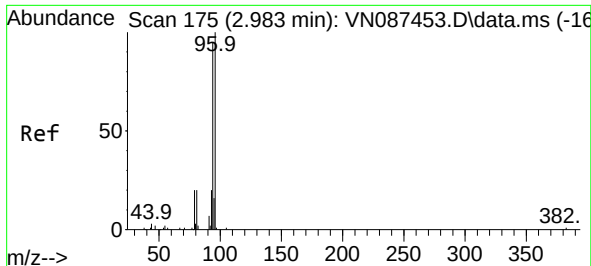
Tgt Ion: 50 Resp: 54828  
Ion Ratio Lower Upper  
50 100  
52 30.4 25.8 38.6



#4  
Vinyl Chloride  
Concen: 20.174 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 62 Resp: 62242  
Ion Ratio Lower Upper  
62 100  
64 33.9 23.4 35.2

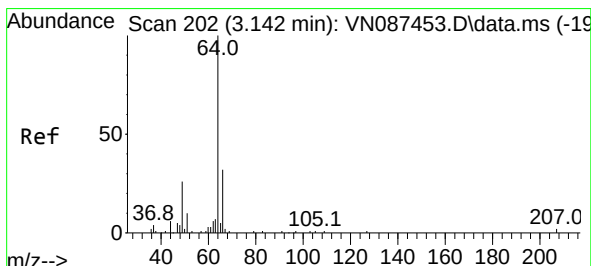
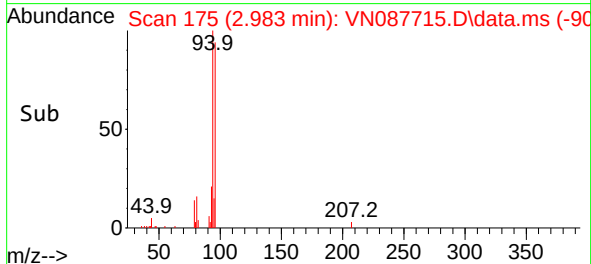
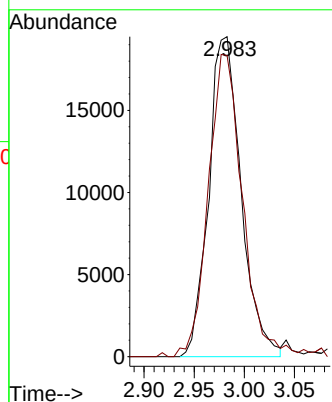
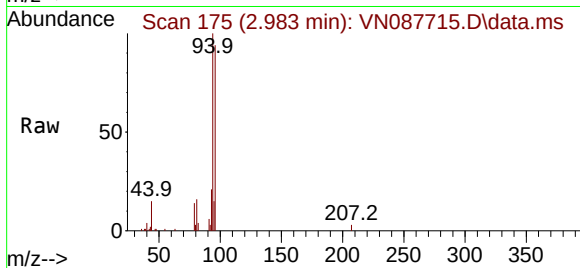




#5  
Bromomethane  
Concen: 26.234 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

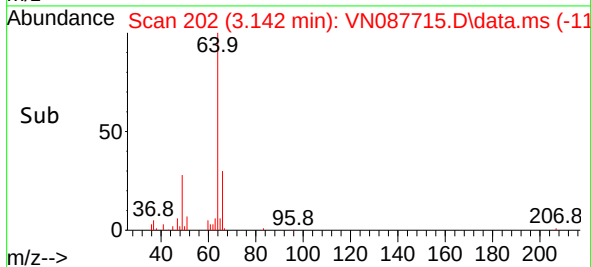
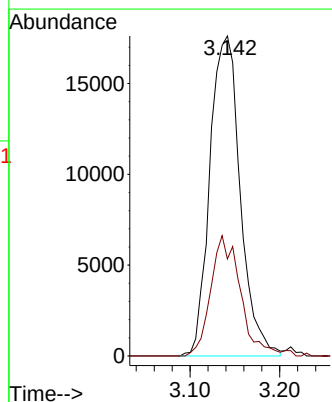
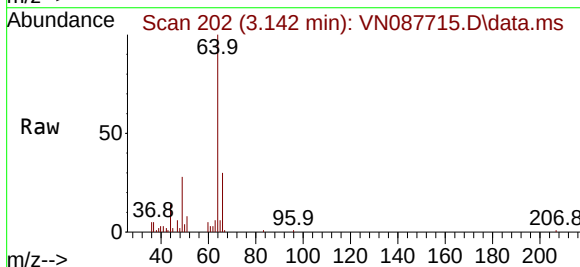
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

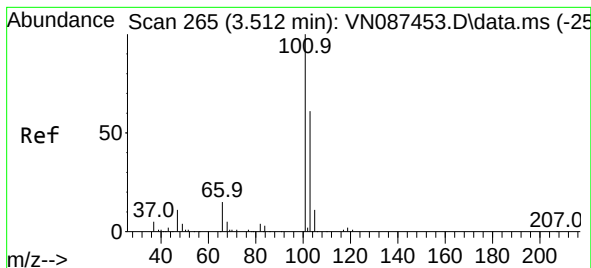
Tgt Ion: 94 Resp: 43809  
Ion Ratio Lower Upper  
94 100  
96 91.5 84.2 126.4



#6  
Chloroethane  
Concen: 20.824 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 64 Resp: 41428  
Ion Ratio Lower Upper  
64 100  
66 30.3 25.4 38.0

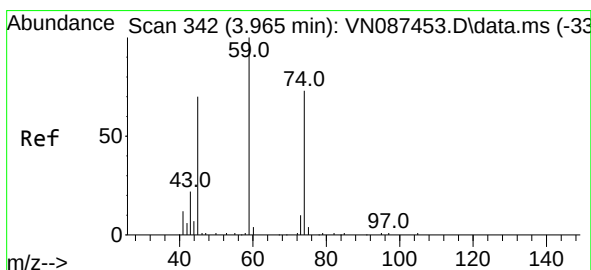
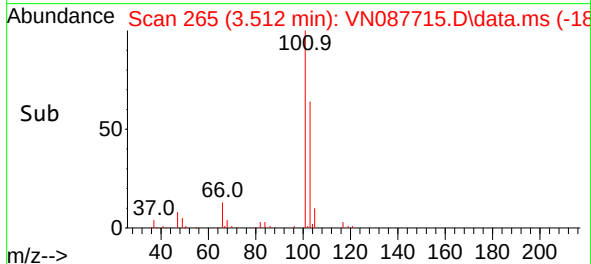
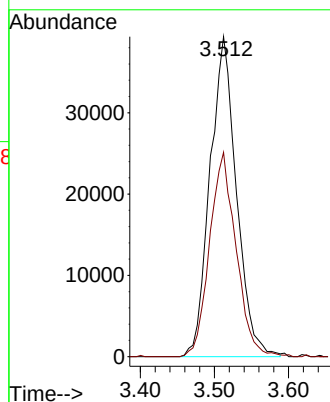
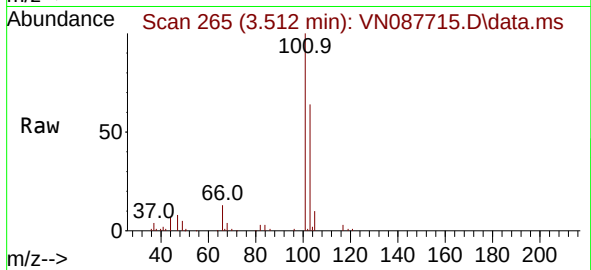




#7  
 Trichlorofluoromethane  
 Concen: 22.030 ug/l  
 RT: 3.512 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

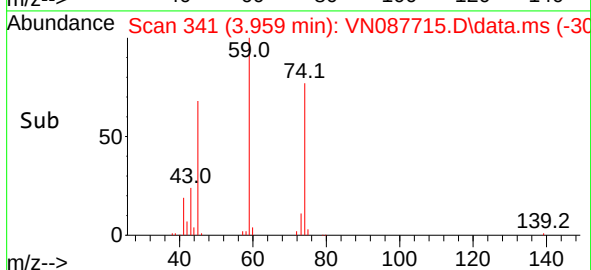
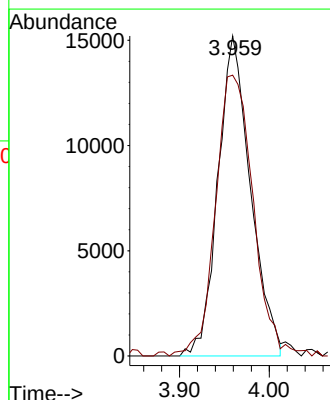
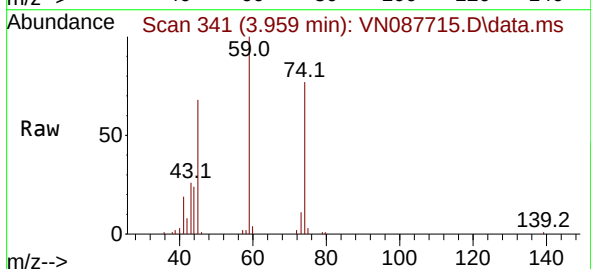
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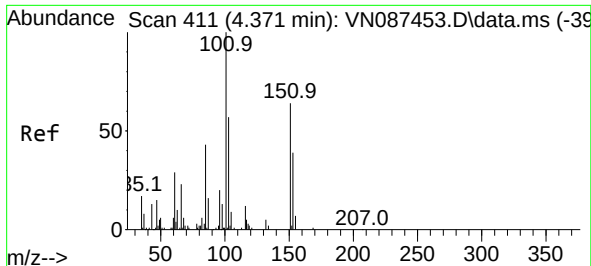
Tgt Ion:101 Resp: 97817  
 Ion Ratio Lower Upper  
 101 100  
 103 63.9 49.2 73.8



#8  
 Diethyl Ether  
 Concen: 20.745 ug/l  
 RT: 3.959 min Scan# 341  
 Delta R.T. -0.006 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion: 74 Resp: 38375  
 Ion Ratio Lower Upper  
 74 100  
 45 99.2 20.1 180.9

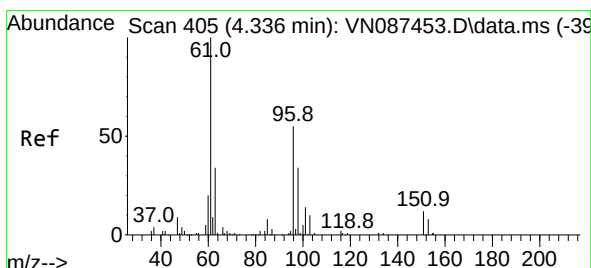
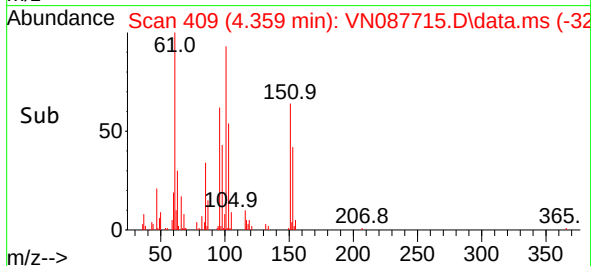
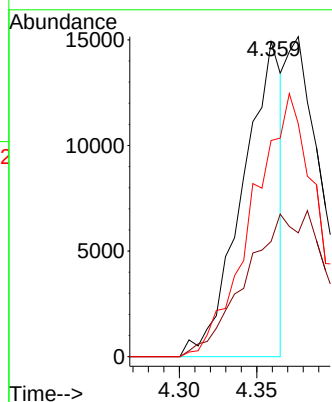
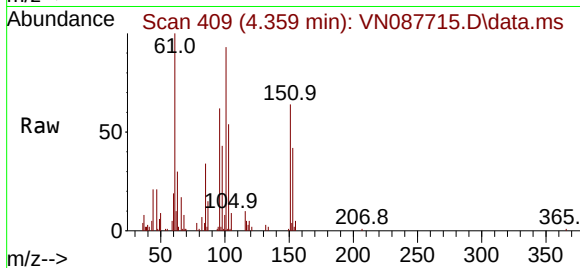




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 11.649 ug/l  
RT: 4.359 min Scan# 409  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

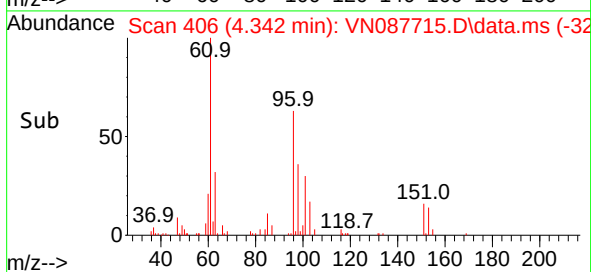
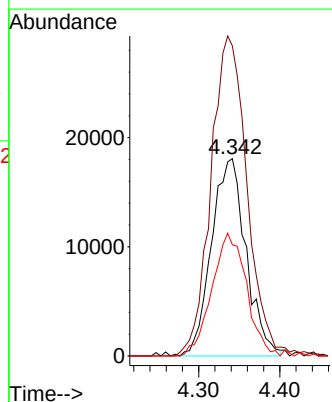
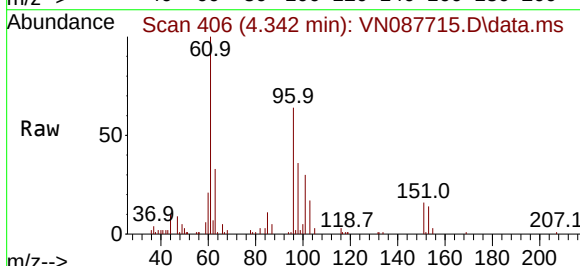
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

Tgt Ion:101 Resp: 26377  
Ion Ratio Lower Upper  
101 100  
85 60.9 0.0 57.0#  
151 145.2 0.0 134.2#

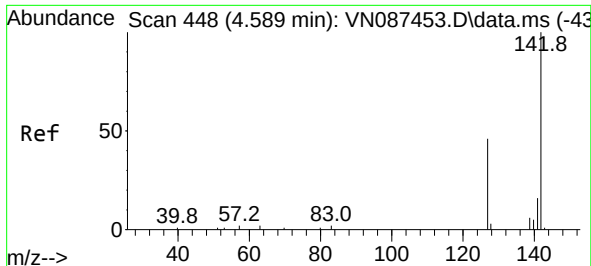


#10  
1,1-Dichloroethene  
Concen: 22.464 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 96 Resp: 53428  
Ion Ratio Lower Upper  
96 100  
61 155.3 144.2 216.4  
98 56.4 49.7 74.5



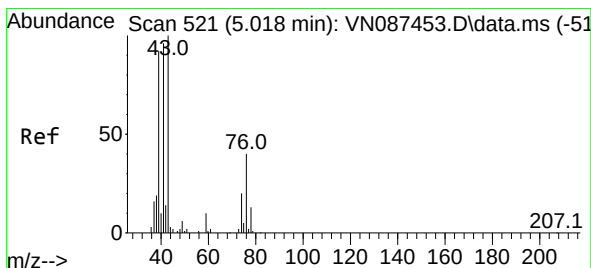
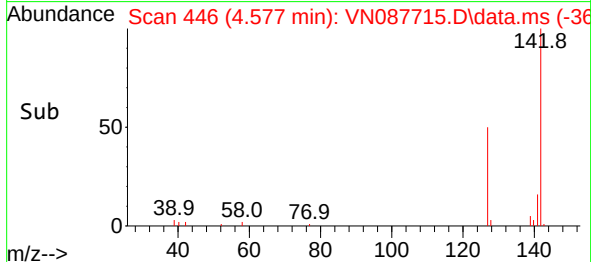
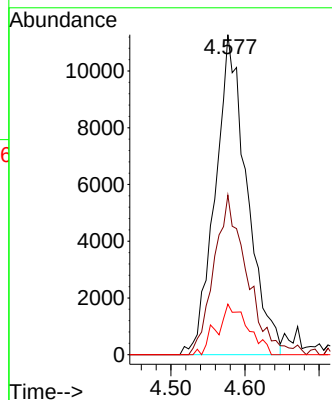
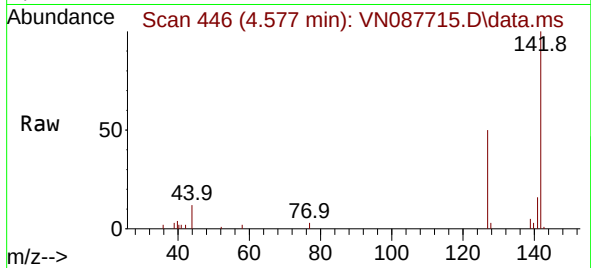




#11  
Methyl Iodide  
Concen: 17.910 ug/l  
RT: 4.577 min Scan# 448  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

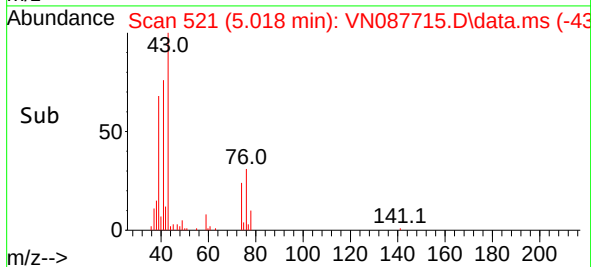
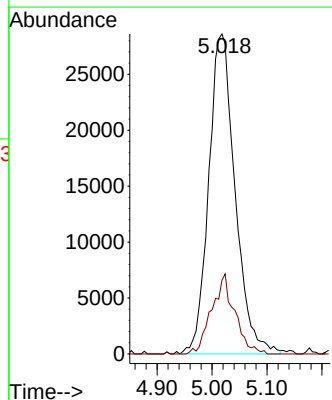
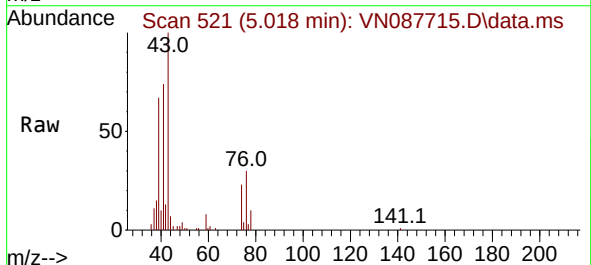
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

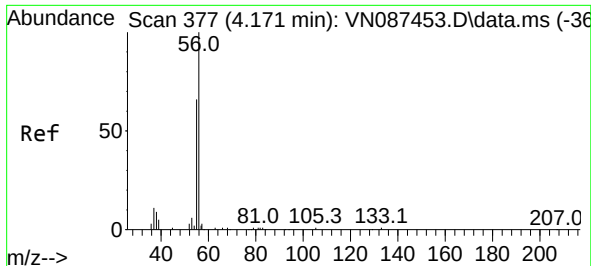
Tgt Ion:142 Resp: 33539  
Ion Ratio Lower Upper  
142 100  
127 49.2 22.9 68.7  
141 16.1 7.7 23.1



#12  
Methyl Acetate  
Concen: 21.765 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 95525  
Ion Ratio Lower Upper  
43 100  
74 23.2 16.0 24.0

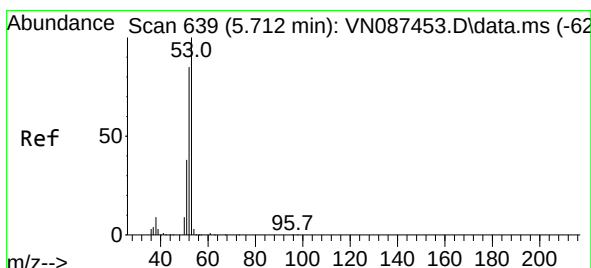
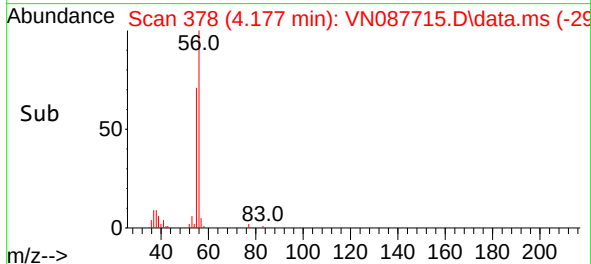
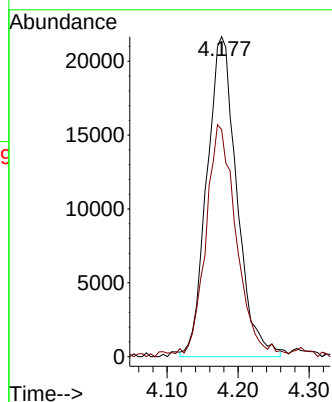
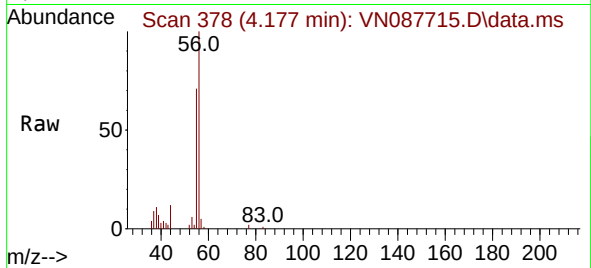




#13  
Acrolein  
Concen: 94.659 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

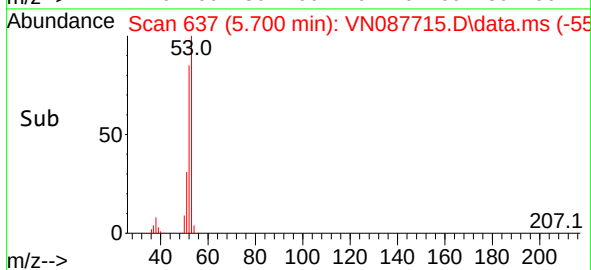
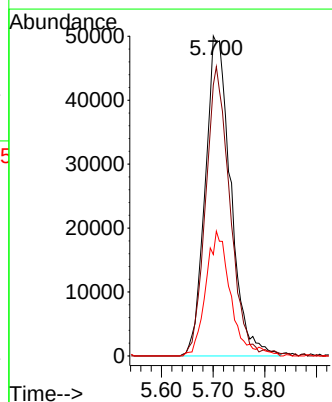
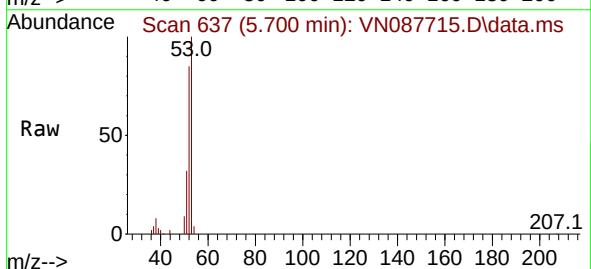
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

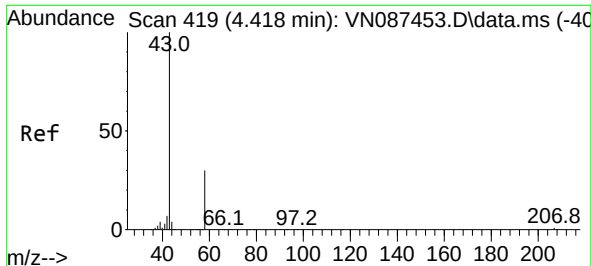
Tgt Ion: 56 Resp: 63454  
Ion Ratio Lower Upper  
56 100  
55 72.4 57.4 86.0



#14  
Acrylonitrile  
Concen: 89.396 ug/l  
RT: 5.700 min Scan# 637  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 53 Resp: 171327  
Ion Ratio Lower Upper  
53 100  
52 85.2 42.4 127.2  
51 34.7 18.5 55.5

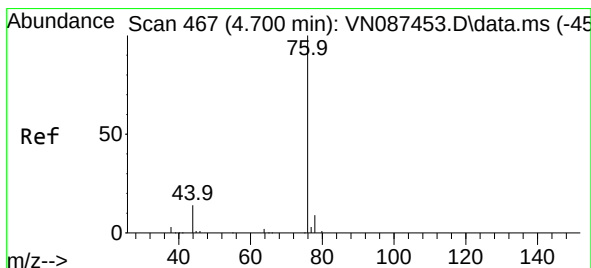
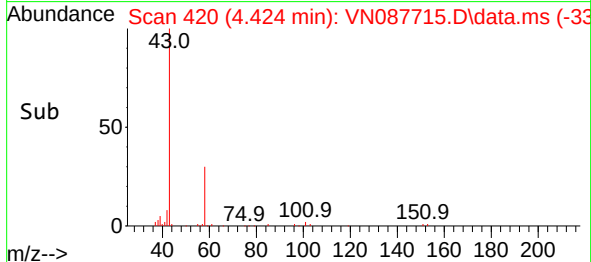
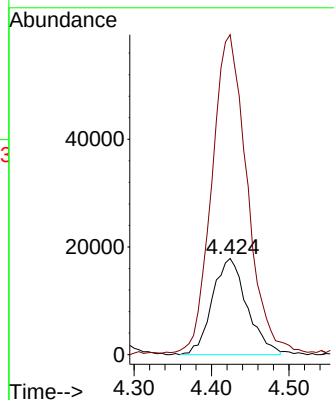
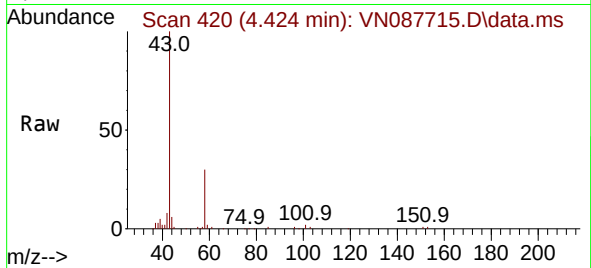




#15  
Acetone  
Concen: 101.625 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

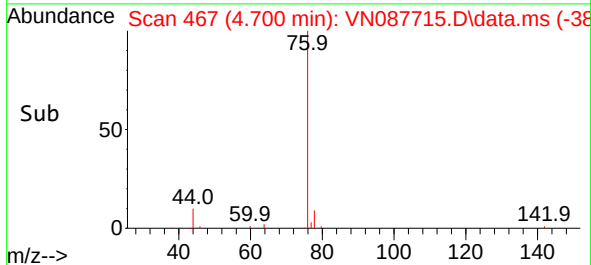
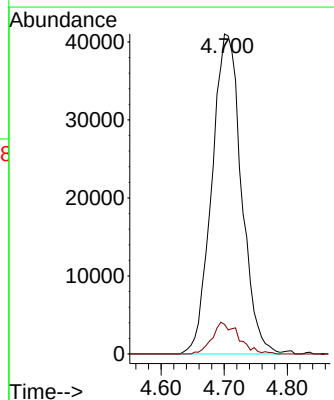
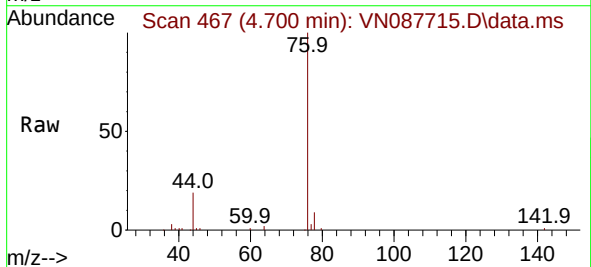
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

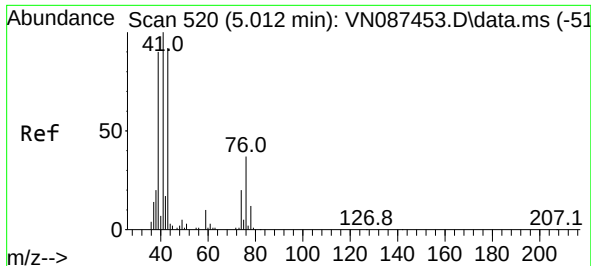
Tgt Ion: 58 Resp: 55649  
Ion Ratio Lower Upper  
58 100  
43 328.5 268.9 403.3



#16  
Carbon Disulfide  
Concen: 18.104 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 76 Resp: 133566  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7

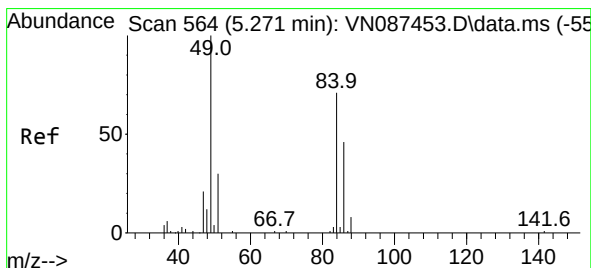
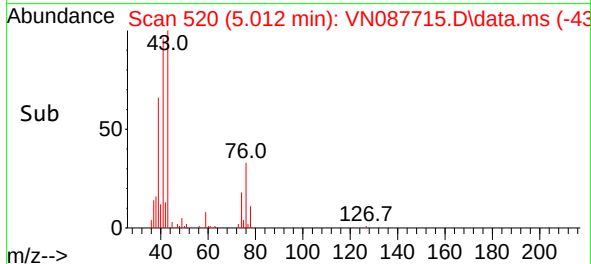
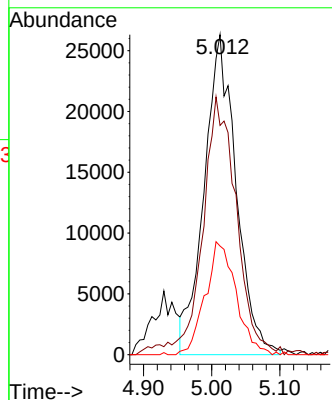
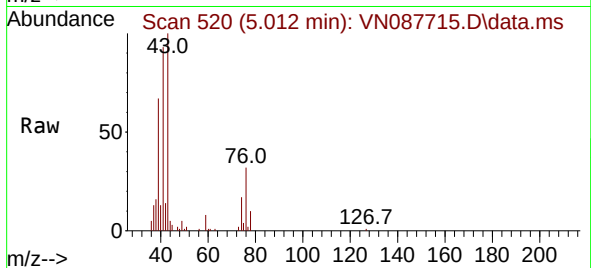




#17  
 Allyl chloride  
 Concen: 17.716 ug/l  
 RT: 5.012 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

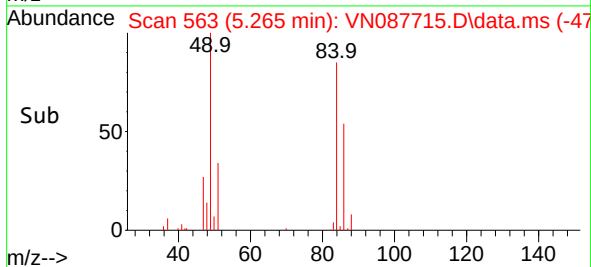
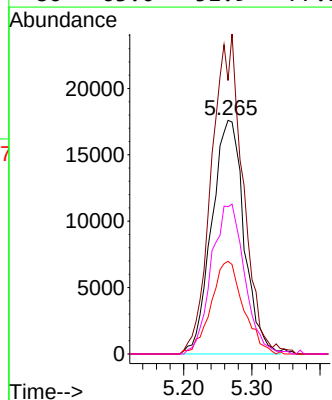
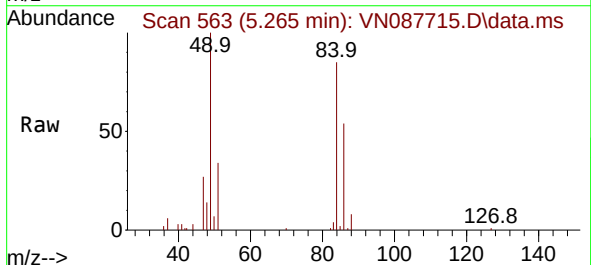
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

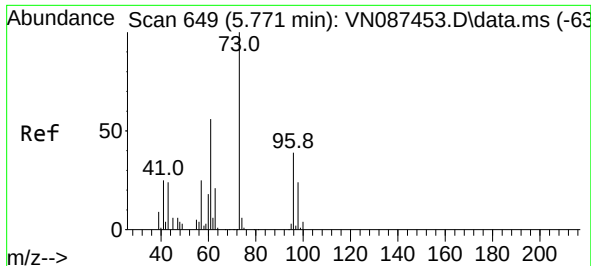
Tgt Ion: 41 Resp: 85883  
 Ion Ratio Lower Upper  
 41 100  
 39 70.1 42.4 127.2  
 76 34.4 16.9 50.6



#18  
 Methylene Chloride  
 Concen: 18.943 ug/l  
 RT: 5.265 min Scan# 563  
 Delta R.T. -0.006 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion: 84 Resp: 57999  
 Ion Ratio Lower Upper  
 84 100  
 49 117.0 112.9 169.3  
 51 39.6 33.8 50.8  
 86 63.0 51.9 77.9

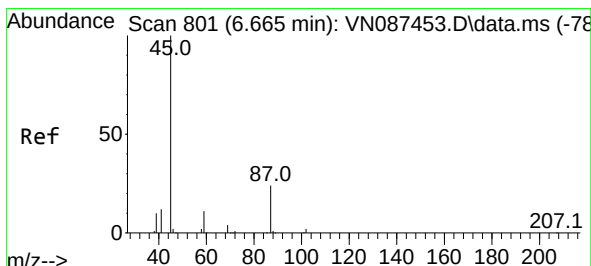
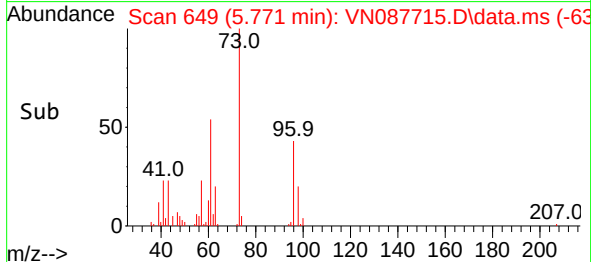
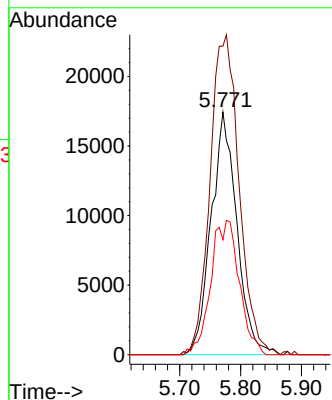
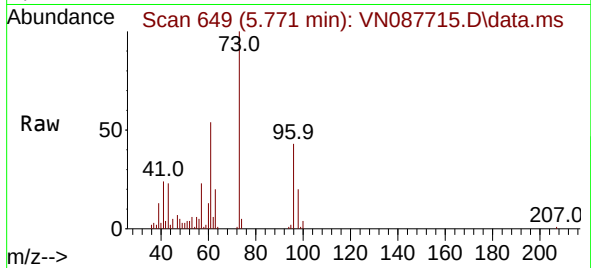




#19  
trans-1,2-Dichloroethene  
Concen: 18.135 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

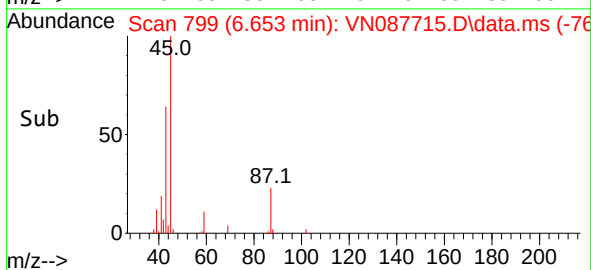
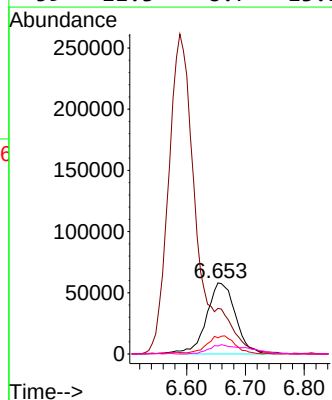
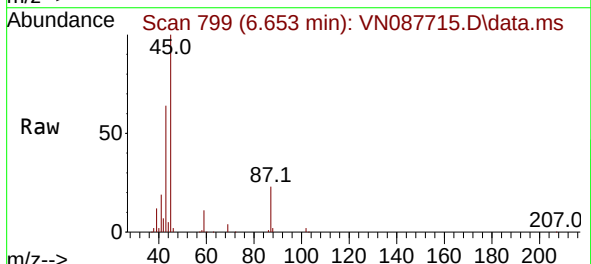
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

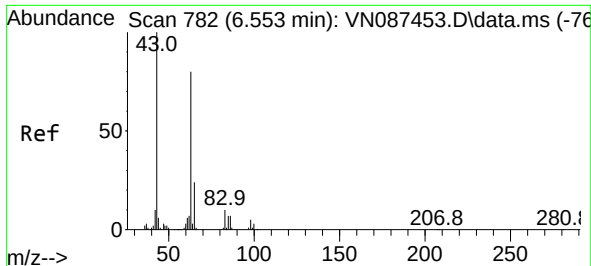
Tgt Ion: 96 Resp: 51291  
Ion Ratio Lower Upper  
96 100  
61 127.2 114.2 171.4  
98 47.4 48.7 73.1#



#20  
Diisopropyl ether  
Concen: 17.739 ug/l  
RT: 6.653 min Scan# 799  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 45 Resp: 195895  
Ion Ratio Lower Upper  
45 100  
43 63.0 44.7 67.1  
87 22.5 20.2 30.2  
59 11.3 8.7 13.1

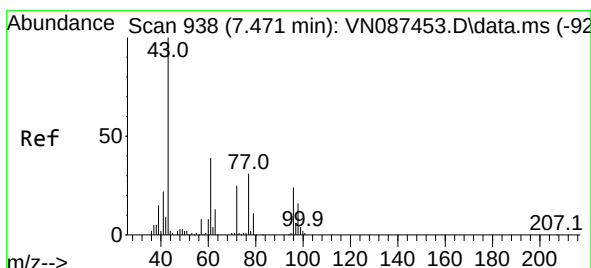
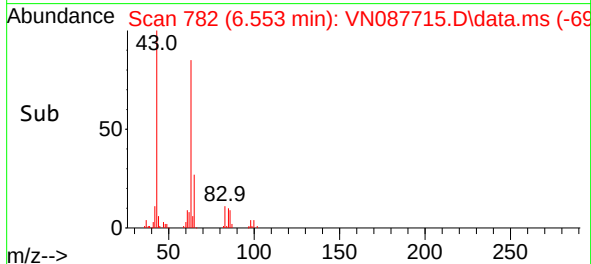
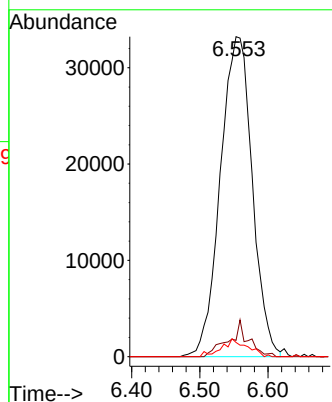
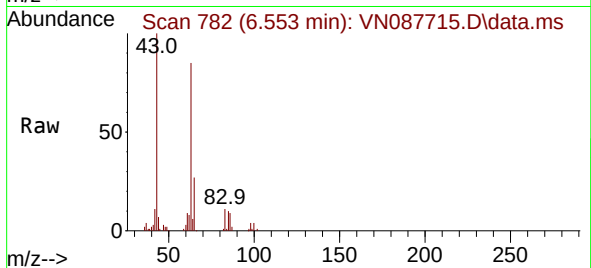




#21  
1,1-Dichloroethane  
Concen: 18.931 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

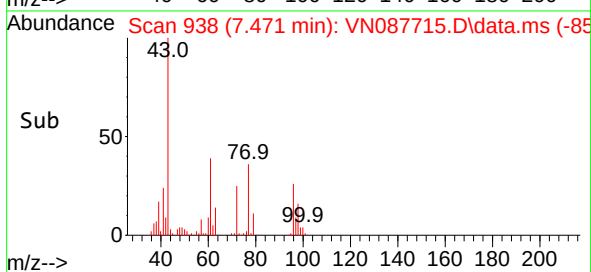
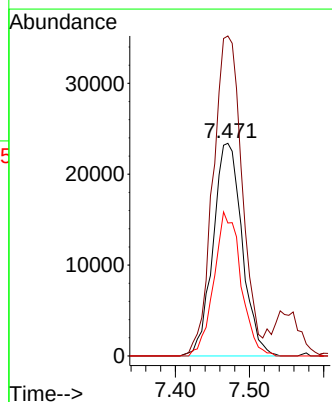
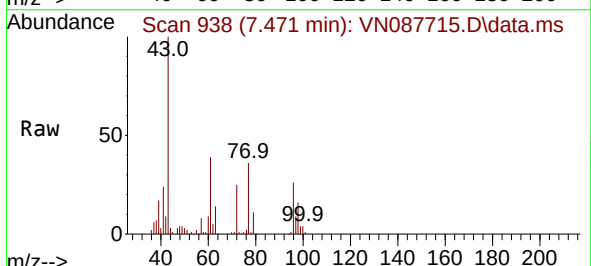
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

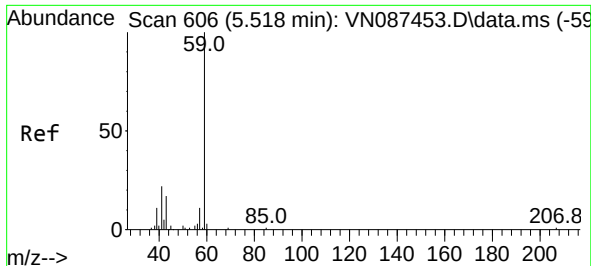
Tgt Ion: 63 Resp: 108065  
Ion Ratio Lower Upper  
63 100  
98 5.1 3.0 9.0  
100 4.5 1.9 5.7



#22  
cis-1,2-Dichloroethene  
Concen: 18.300 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 96 Resp: 63685  
Ion Ratio Lower Upper  
96 100  
61 150.8 126.6 190.0  
98 63.1 50.9 76.3

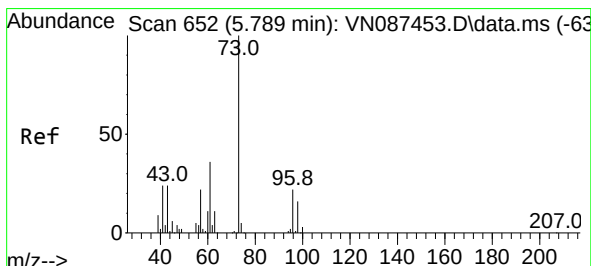
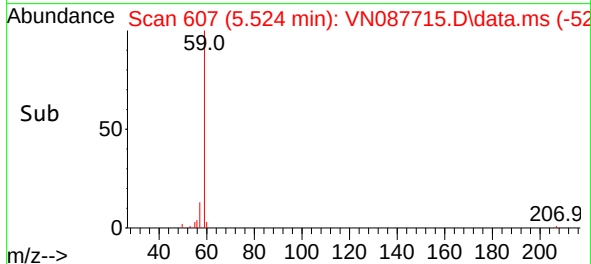
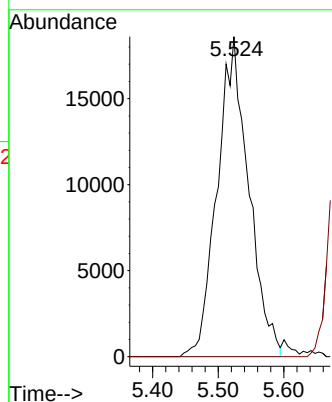
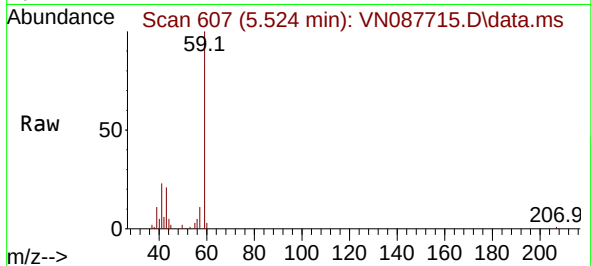




#23  
tert-Butyl Alcohol  
Concen: 75.900 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

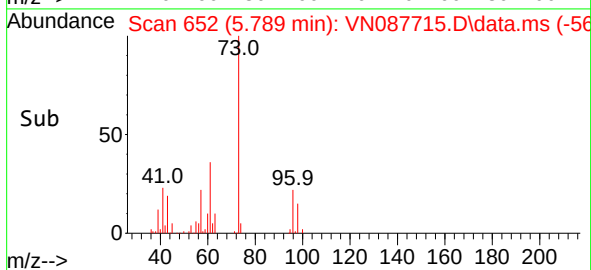
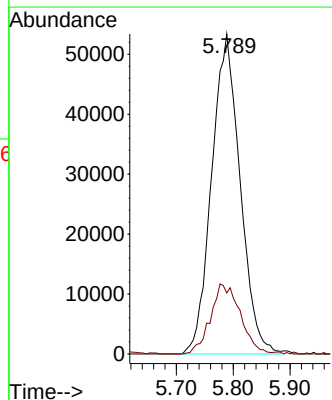
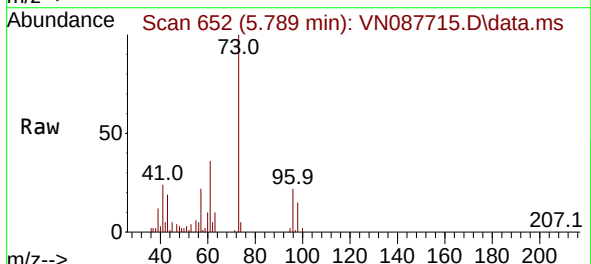
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

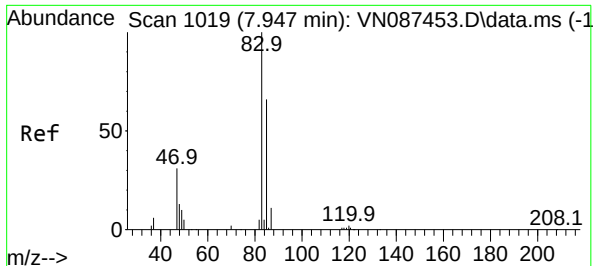
Tgt Ion: 59 Resp: 61811  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#24  
Methyl tert-Butyl Ether  
Concen: 17.130 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 73 Resp: 185640  
Ion Ratio Lower Upper  
73 100  
43 22.9 19.9 29.9





#25

Chloroform

Concen: 18.874 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

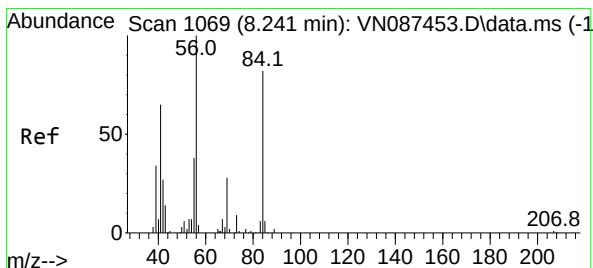
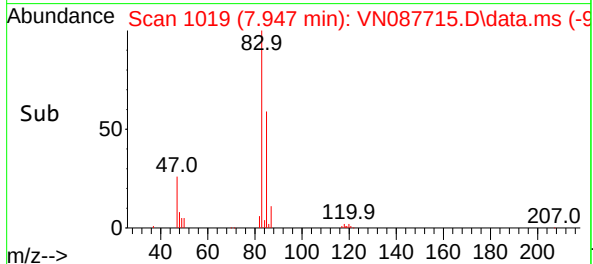
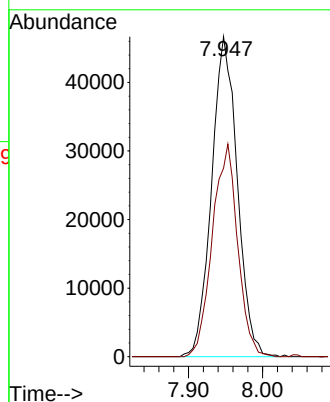
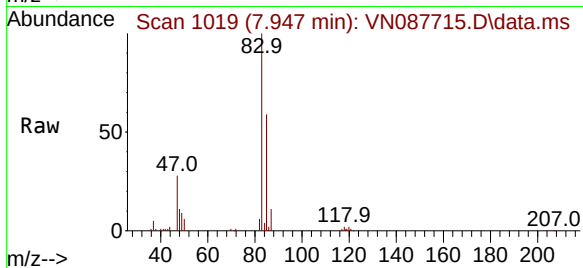
VN0904WBS01

Tgt Ion: 83 Resp: 112463

Ion Ratio Lower Upper

83 100

85 58.9 52.6 78.8



#26

Cyclohexane

Concen: 17.353 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

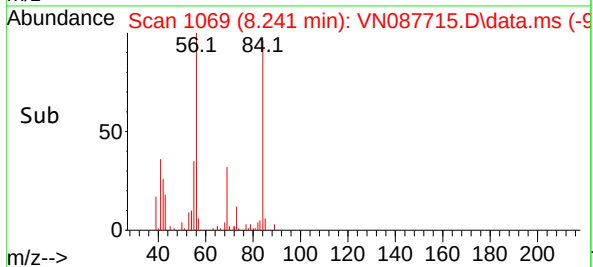
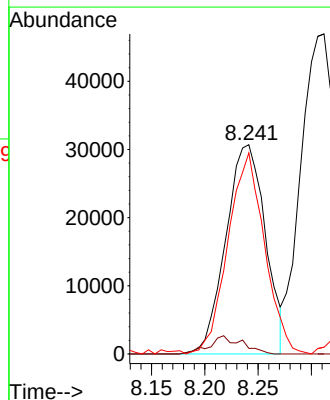
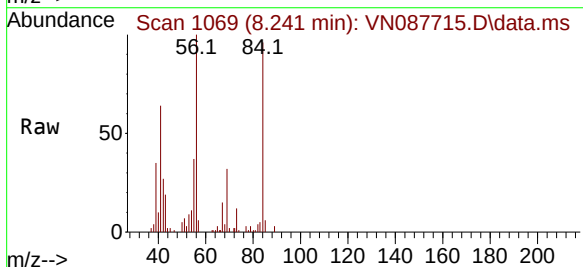
Tgt Ion: 56 Resp: 79309

Ion Ratio Lower Upper

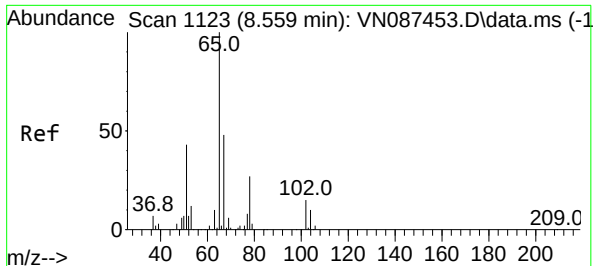
56 100

89 2.0 2.3 3.5#

84 89.0 67.0 100.4



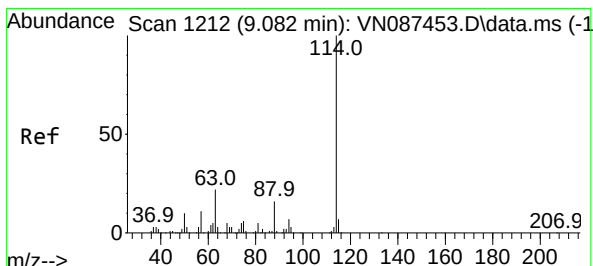
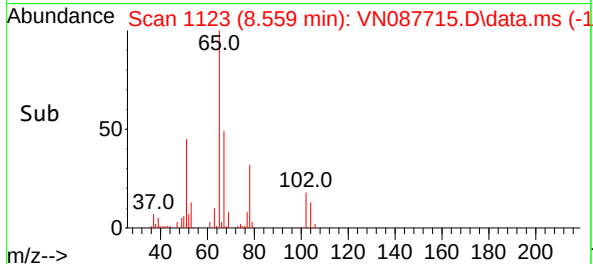
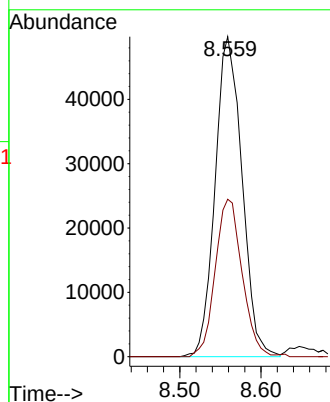
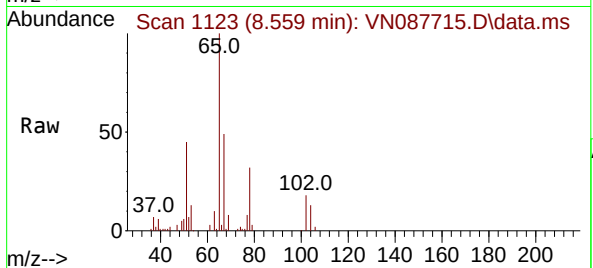




#27  
 1,2-Dichloroethane-d4  
 Concen: 28.579 ug/l  
 RT: 8.559 min Scan# 1123  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

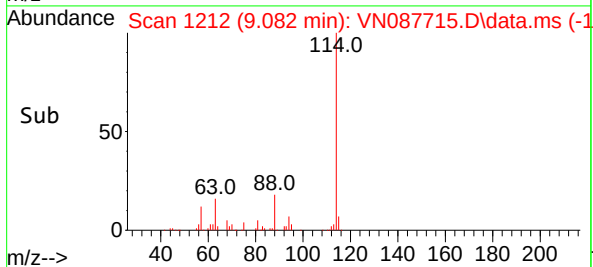
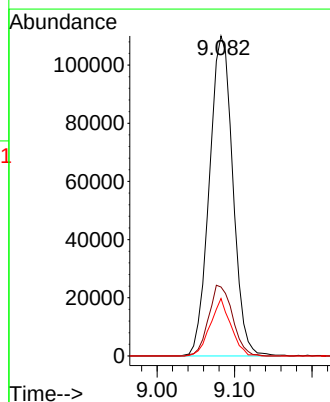
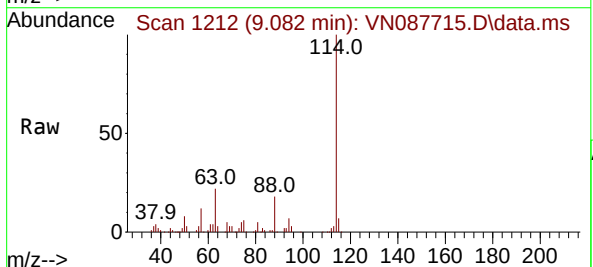
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

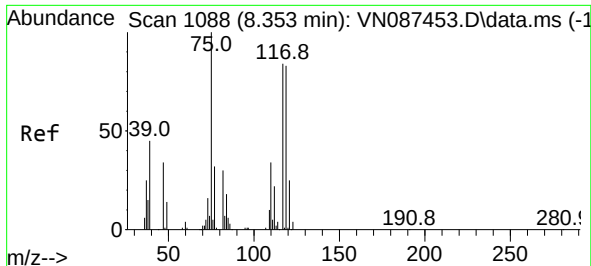
Tgt Ion: 65 Resp: 114466  
 Ion Ratio Lower Upper  
 65 100  
 67 49.1 40.8 61.2



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 9.082 min Scan# 1212  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion: 114 Resp: 231247  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 18.9 28.3  
 88 15.7 13.1 19.7

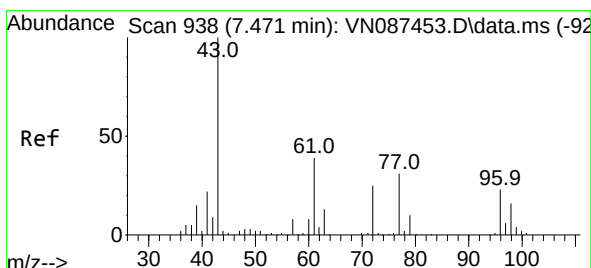
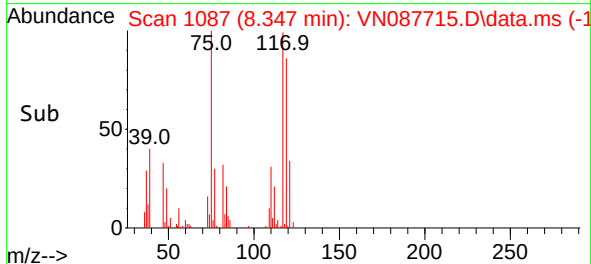
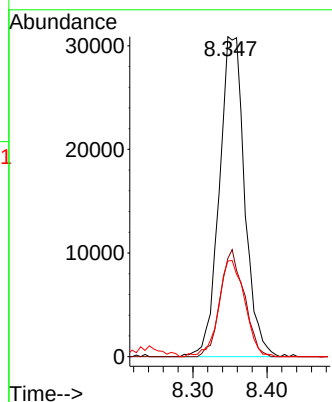
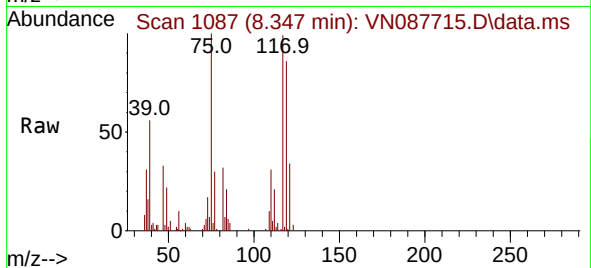




#29  
1,1-Dichloropropene  
Concen: 19.459 ug/l  
RT: 8.347 min Scan# 1087  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

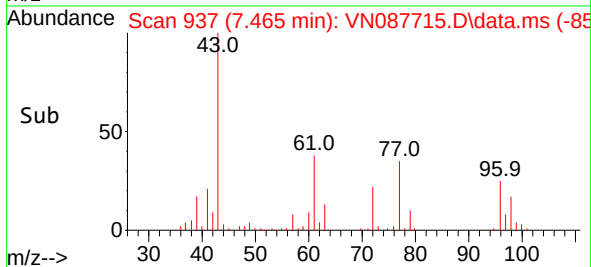
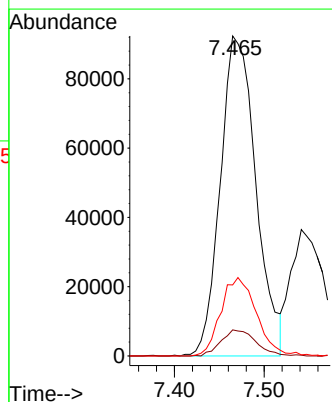
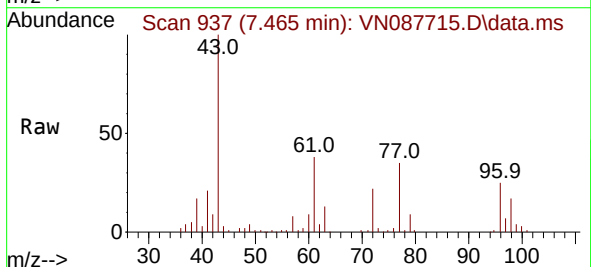
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

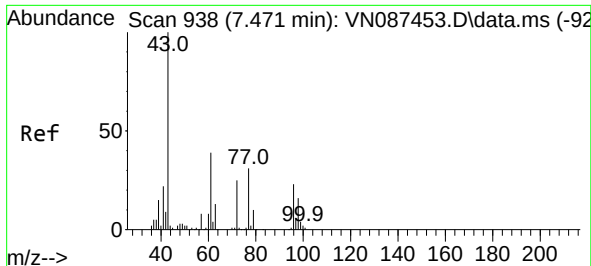
Tgt Ion: 75 Resp: 73391  
Ion Ratio Lower Upper  
75 100  
110 31.7 0.0 65.8  
77 29.3 0.0 63.6



#30  
2-Butanone  
Concen: 91.624 ug/l  
RT: 7.465 min Scan# 937  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 254727  
Ion Ratio Lower Upper  
43 100  
57 8.0 6.6 9.8  
72 24.3 19.7 29.5

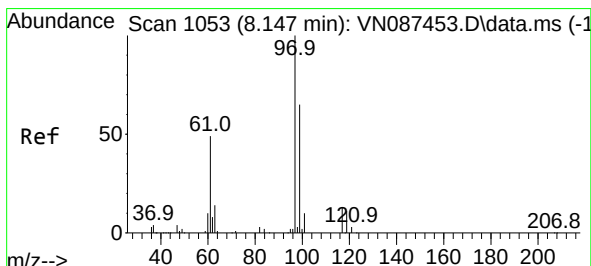
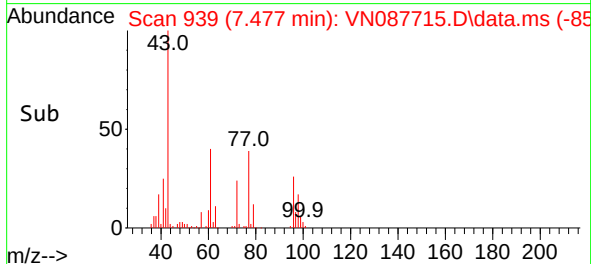
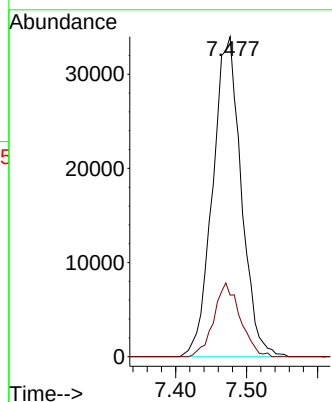
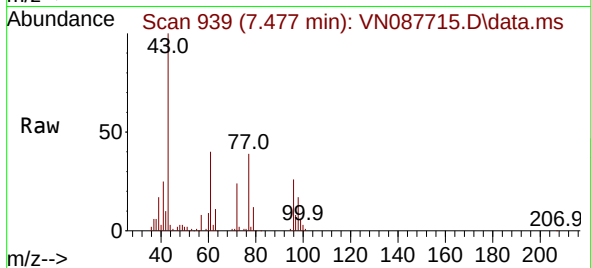




#31  
2,2-Dichloropropane  
Concen: 19.482 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

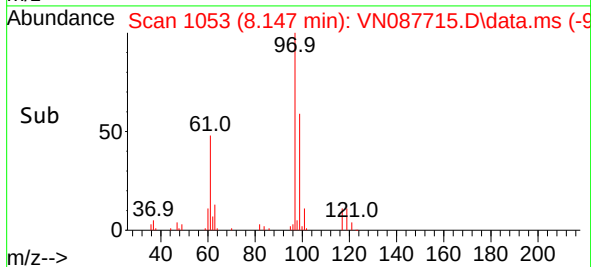
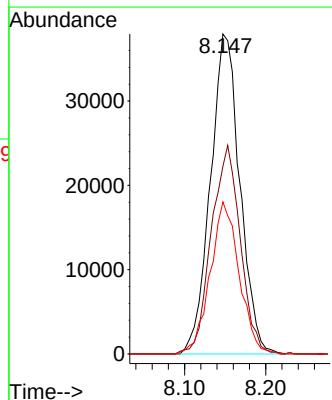
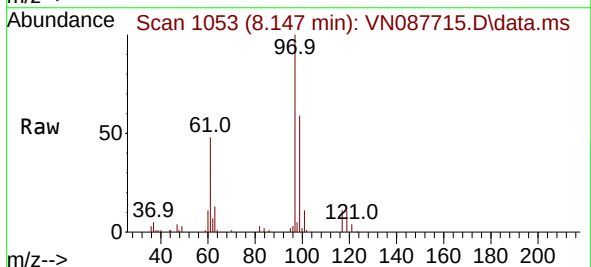
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

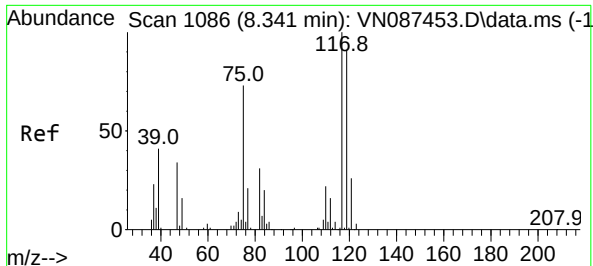
Tgt Ion: 77 Resp: 94769  
Ion Ratio Lower Upper  
77 100  
97 21.1 16.7 25.1



#32  
1,1,1-Trichloroethane  
Concen: 19.915 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

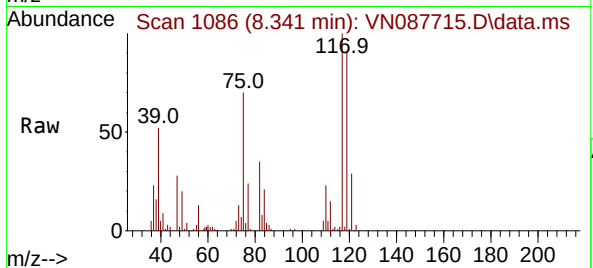
Tgt Ion: 97 Resp: 95796  
Ion Ratio Lower Upper  
97 100  
99 63.9 53.0 79.6  
61 46.7 40.6 61.0



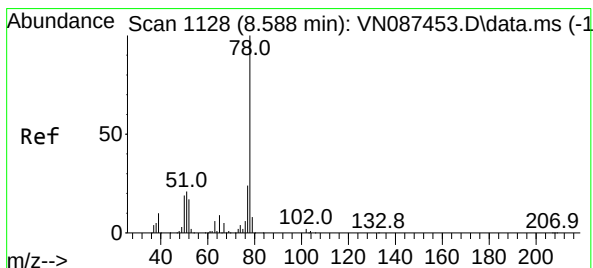
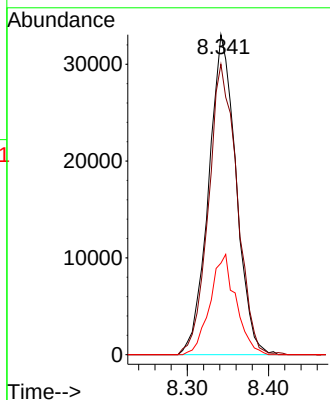
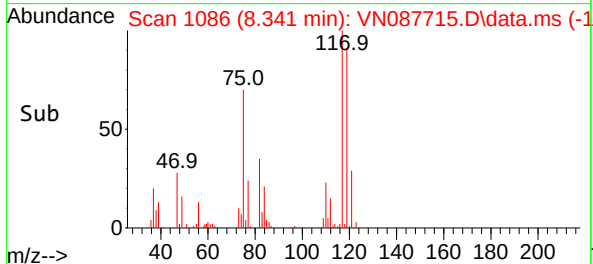


#33  
Carbon Tetrachloride  
Concen: 19.463 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

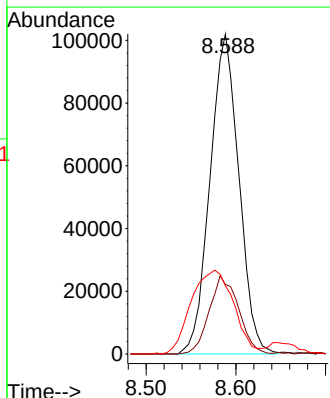
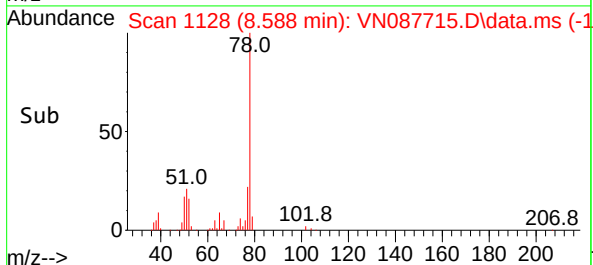
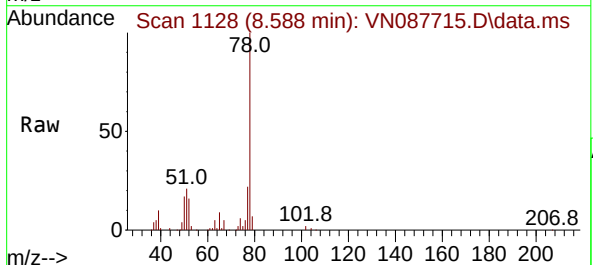


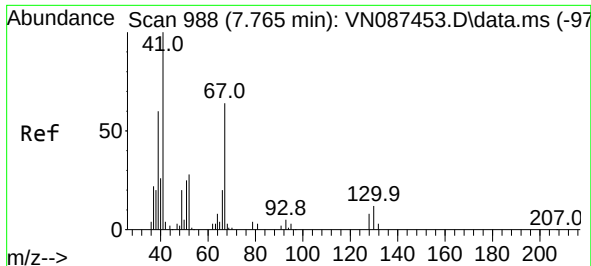
Tgt Ion:117 Resp: 77776  
Ion Ratio Lower Upper  
117 100  
119 90.8 73.4 110.0  
121 28.6 21.1 31.7



#34  
Benzene  
Concen: 19.144 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 78 Resp: 227927  
Ion Ratio Lower Upper  
78 100  
77 21.8 19.2 28.8  
51 17.7 16.9 25.3

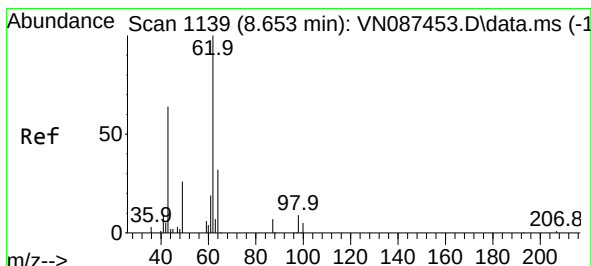
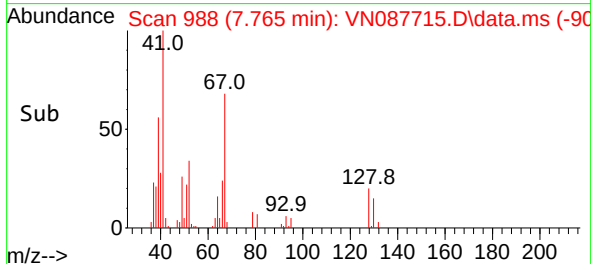
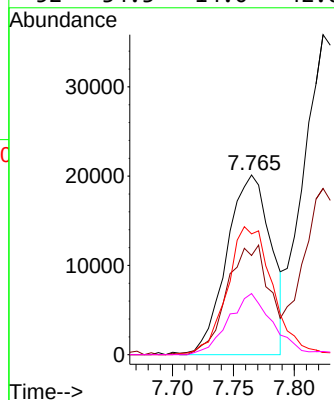
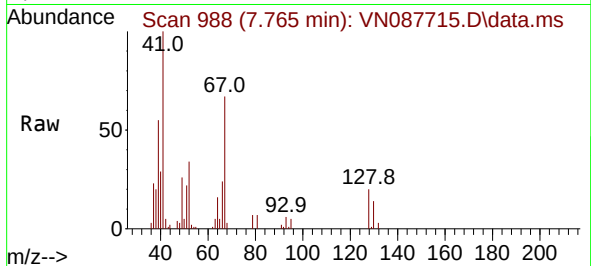




#35  
Methacrylonitrile  
Concen: 16.984 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

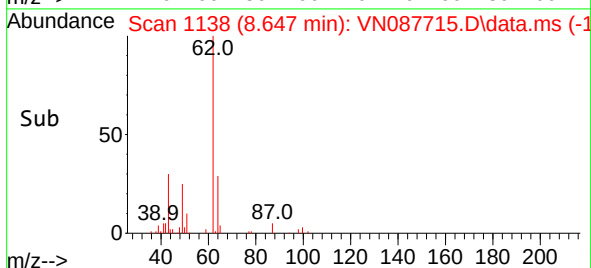
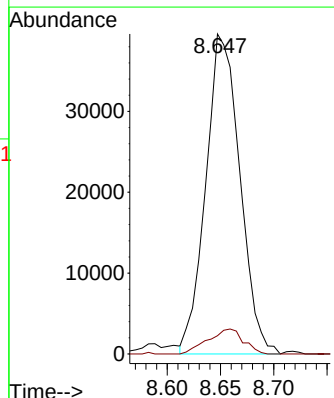
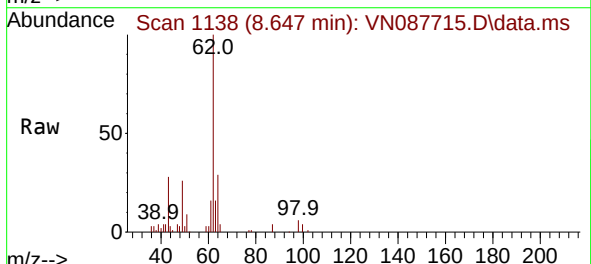
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

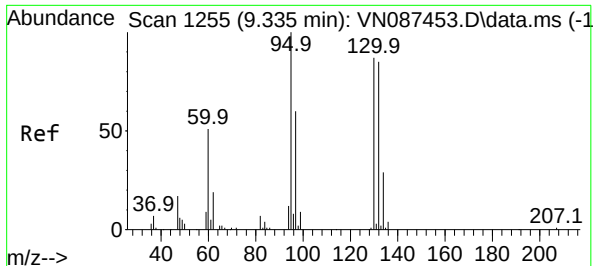
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 50954 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 55.7  | 30.1  | 90.5  |
| 67       | 67.0  | 32.0  | 96.2  |
| 52       | 34.3  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 18.306 ug/l  
RT: 8.647 min Scan# 1138  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 88092 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.1   | 6.6   | 9.8   |

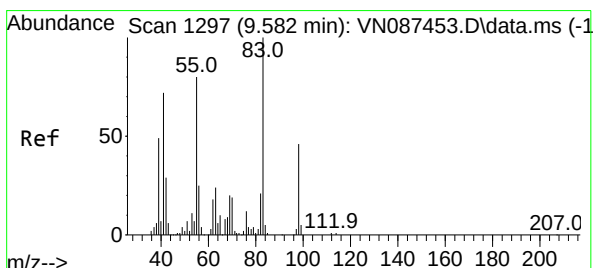
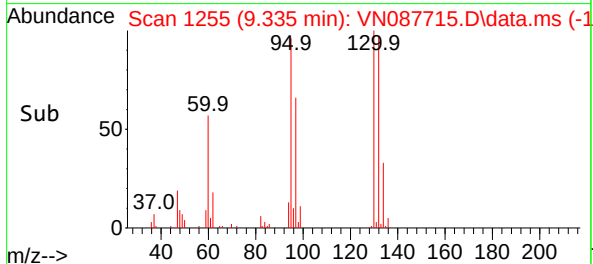
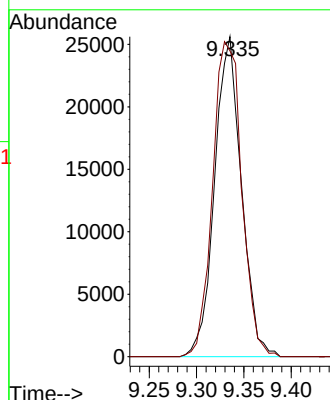
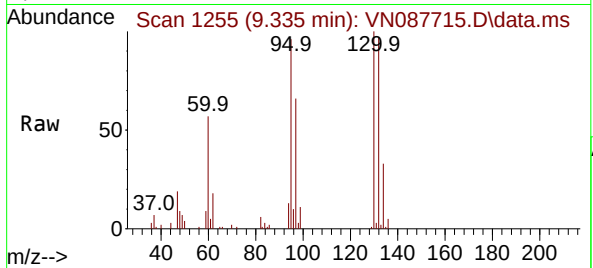




#37  
Trichloroethene  
Concen: 19.274 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

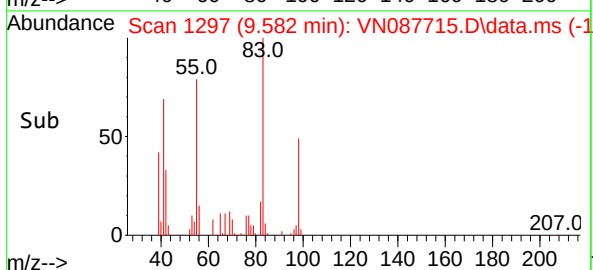
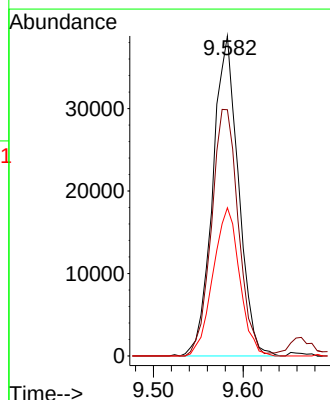
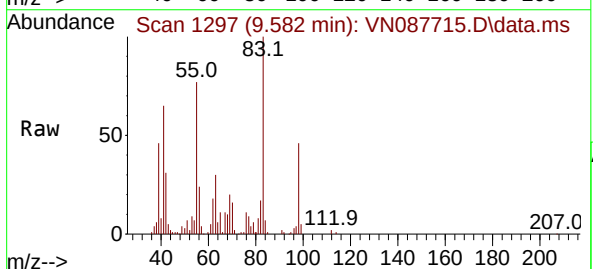
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

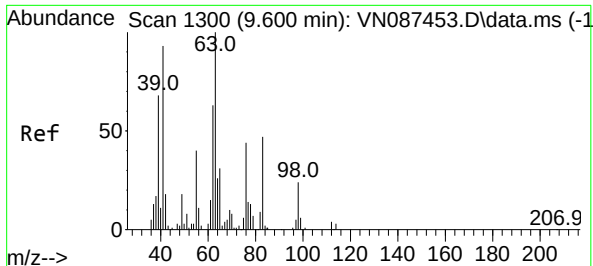
Tgt Ion:130 Resp: 50547  
Ion Ratio Lower Upper  
130 100  
95 95.5 91.4 137.2



#38  
Methylcyclohexane  
Concen: 17.627 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 83 Resp: 77129  
Ion Ratio Lower Upper  
83 100  
55 80.5 41.2 123.6  
98 47.9 23.3 69.9

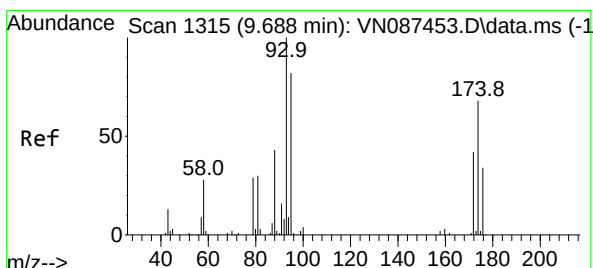
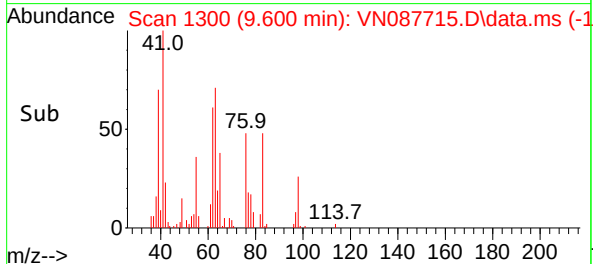
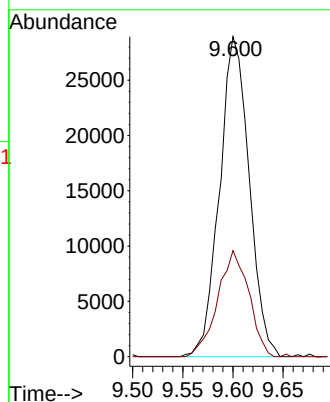
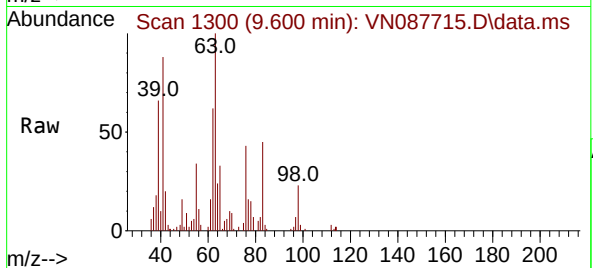




#39  
1,2-Dichloropropane  
Concen: 19.488 ug/l  
RT: 9.600 min Scan# 1300  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

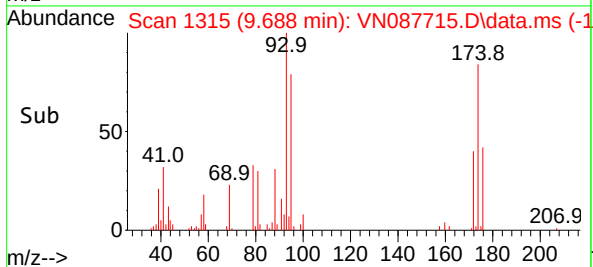
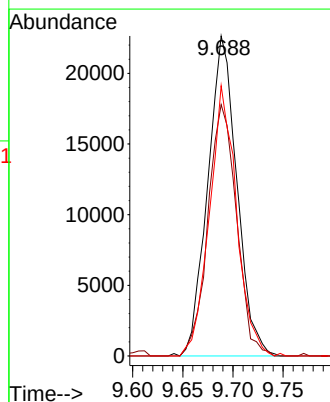
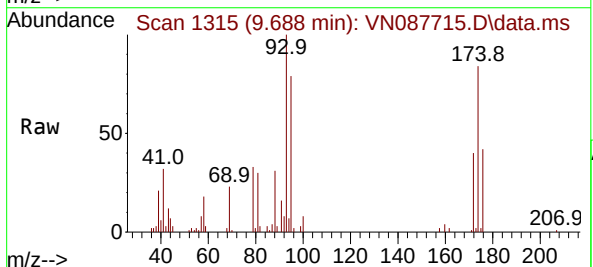
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

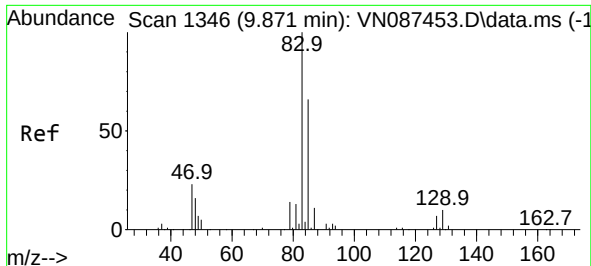
Tgt Ion: 63 Resp: 59488  
Ion Ratio Lower Upper  
63 100  
65 33.1 24.6 36.8



#40  
Dibromomethane  
Concen: 19.987 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 93 Resp: 45777  
Ion Ratio Lower Upper  
93 100  
95 77.0 0.0 161.6  
174 78.5 0.0 151.4

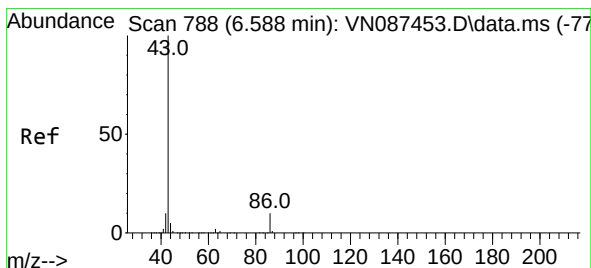
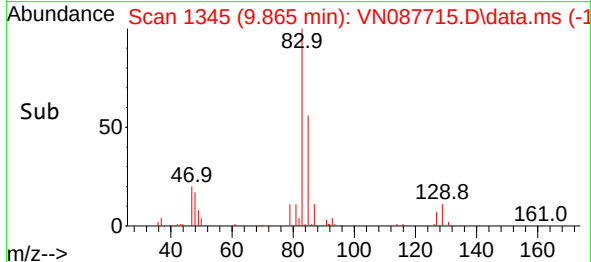
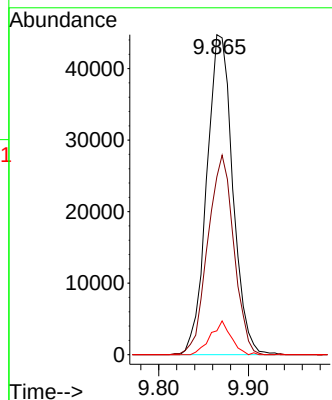
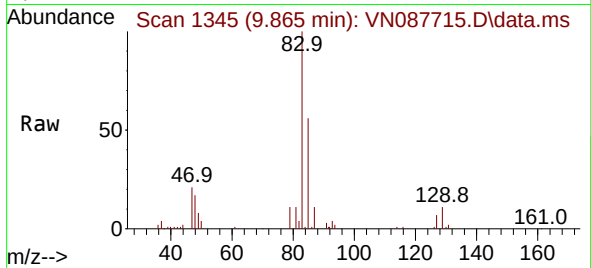




#41  
Bromodichloromethane  
Concen: 18.911 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

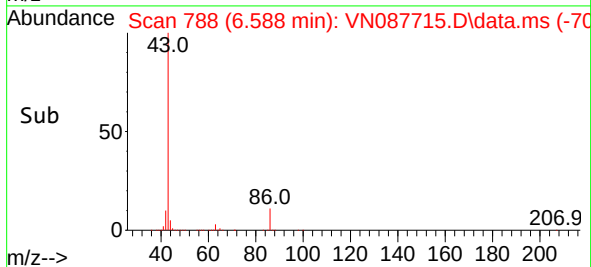
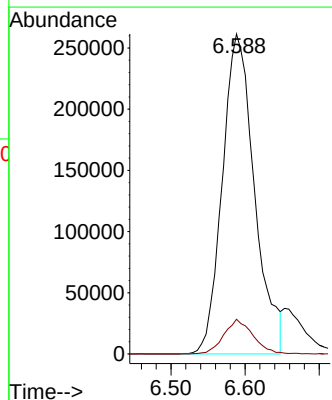
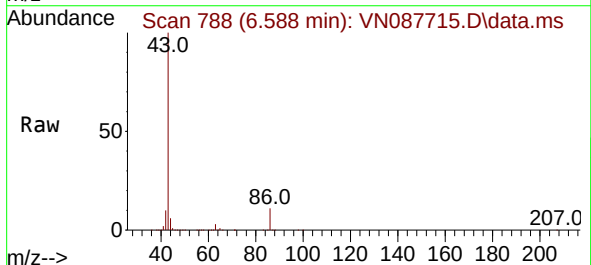
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

Tgt Ion: 83 Resp: 90003  
Ion Ratio Lower Upper  
83 100  
85 55.2 52.9 79.3  
127 7.5 5.8 8.6

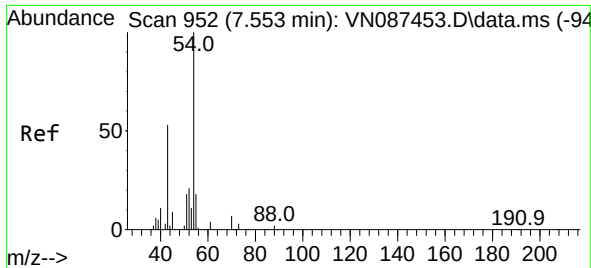


#42  
Vinyl Acetate  
Concen: 86.167 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 788902  
Ion Ratio Lower Upper  
43 100  
86 9.8 7.3 10.9



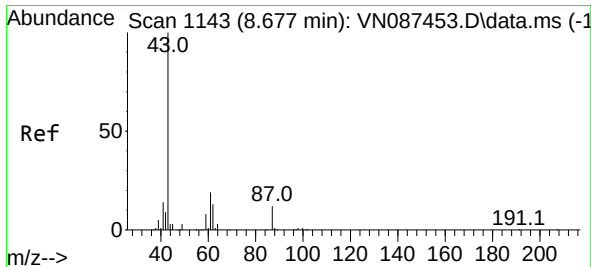
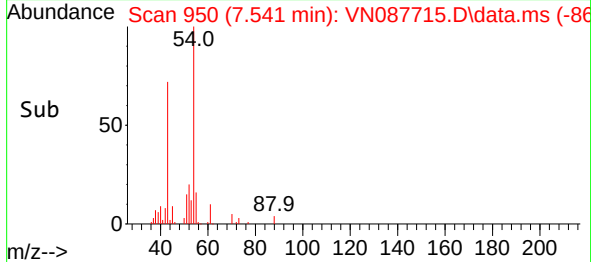
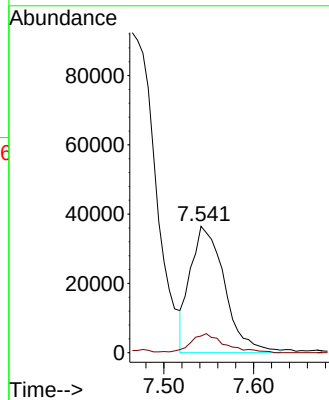
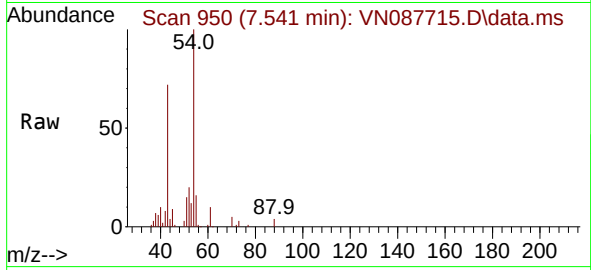




#43  
Ethyl Acetate  
Concen: 18.059 ug/l  
RT: 7.541 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

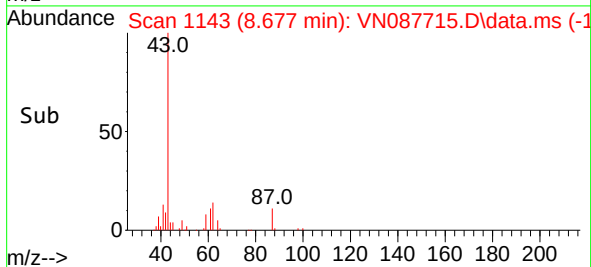
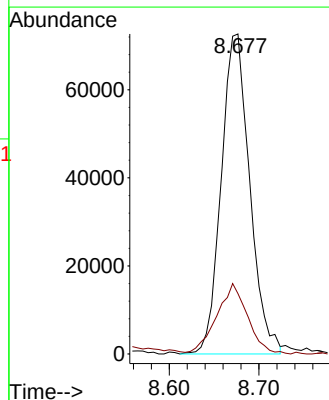
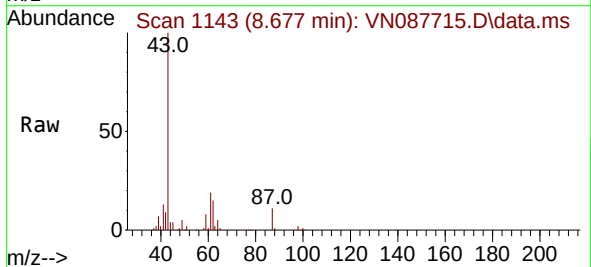
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

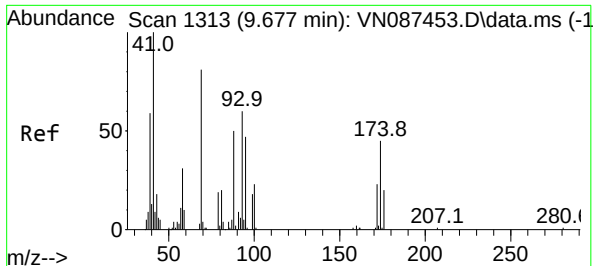
Tgt Ion: 43 Resp: 96992  
Ion Ratio Lower Upper  
43 100  
45 13.7 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 17.624 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 160457  
Ion Ratio Lower Upper  
43 100  
61 23.9 18.6 28.0





#45

1,4-Dioxane

Concen: 337.304 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

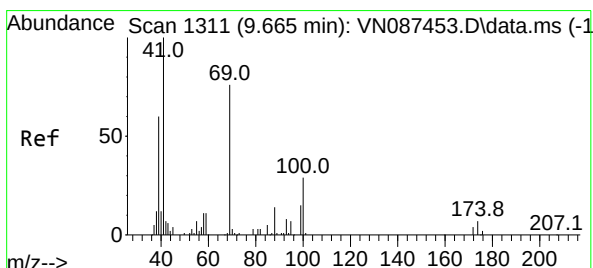
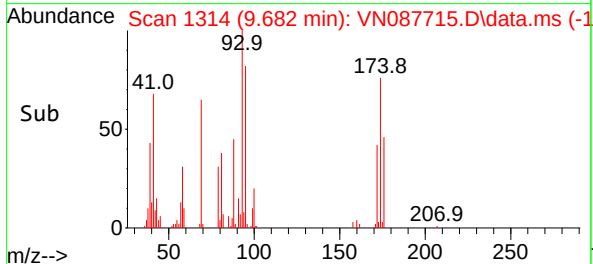
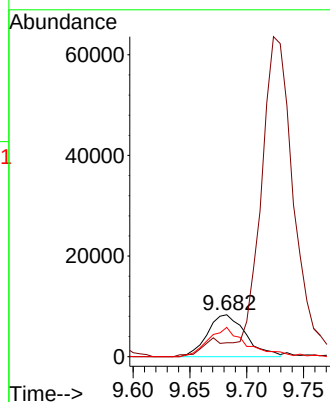
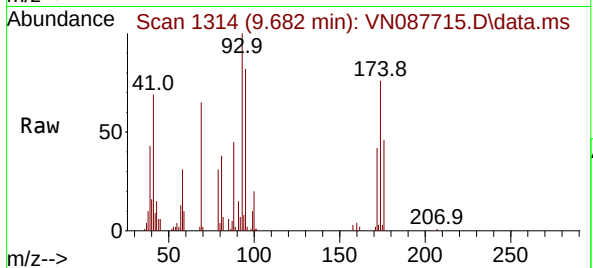
Tgt Ion: 88 Resp: 19577

Ion Ratio Lower Upper

88 100

43 16.5 24.1 36.1#

58 65.8 57.2 85.8



#46

Methyl methacrylate

Concen: 16.322 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

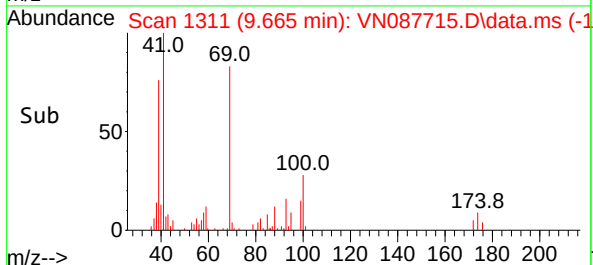
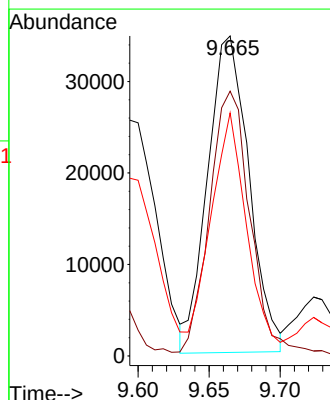
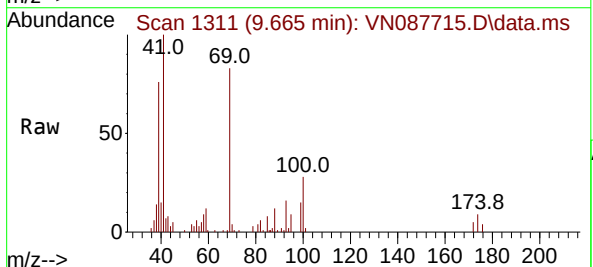
Tgt Ion: 41 Resp: 70145

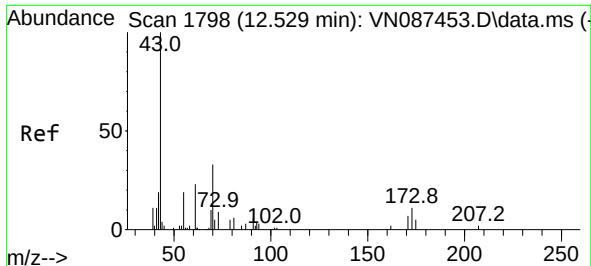
Ion Ratio Lower Upper

41 100

69 87.7 37.1 111.5

39 77.1 30.7 92.1

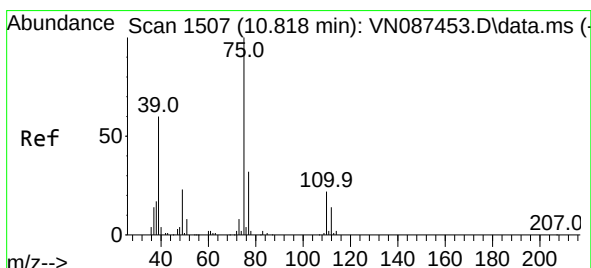
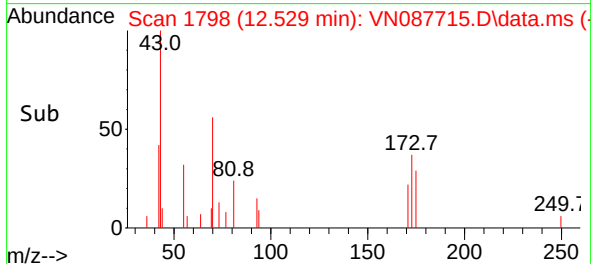
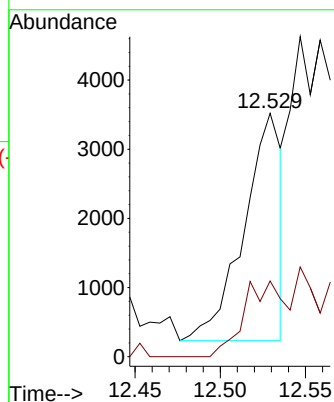
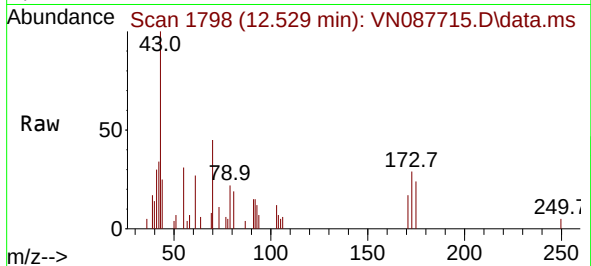




#47  
n-amy1 Acetate  
Concen: 1.006 ug/l  
RT: 12.529 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

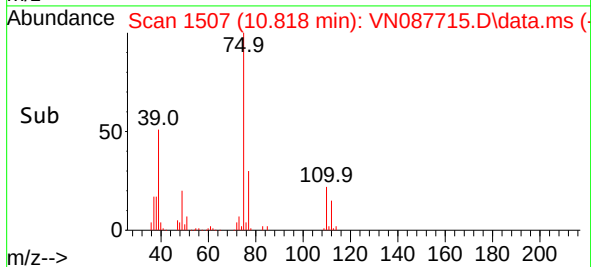
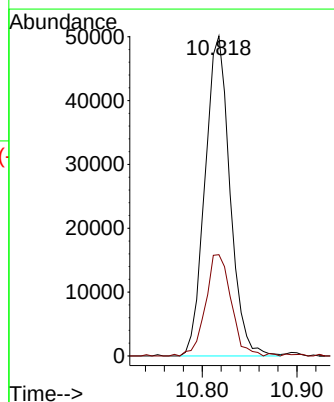
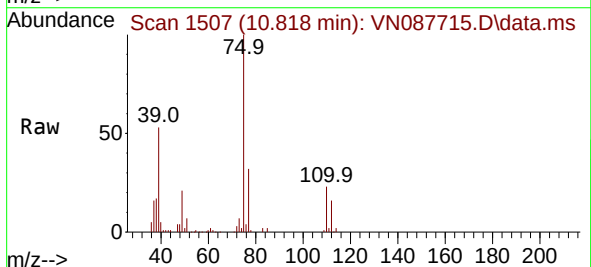
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

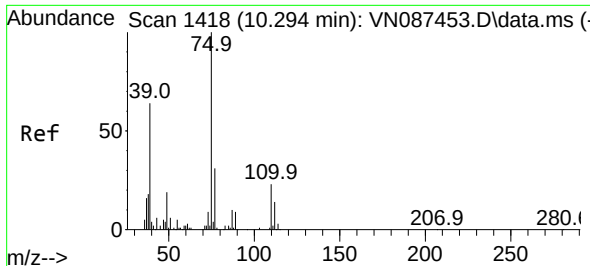
Tgt Ion: 43 Resp: 5059  
Ion Ratio Lower Upper  
43 100  
55 18.5 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 17.686 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 91571  
Ion Ratio Lower Upper  
75 100  
77 31.6 25.3 37.9

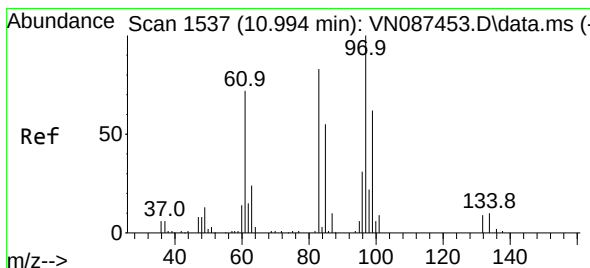
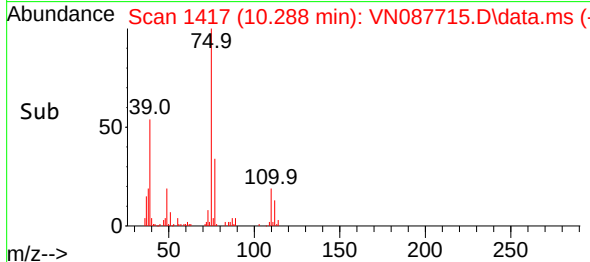
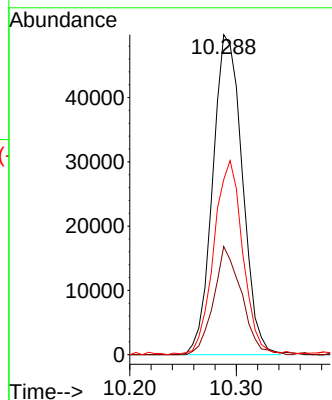
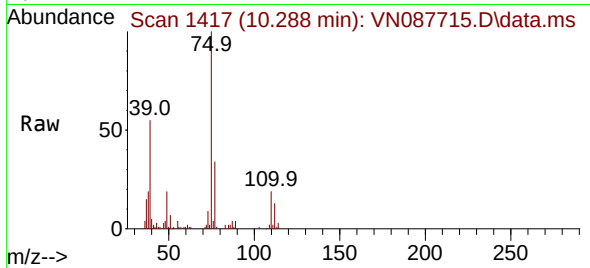




#49  
 cis-1,3-Dichloropropene  
 Concen: 18.425 ug/l  
 RT: 10.288 min Scan# 1417  
 Delta R.T. -0.006 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

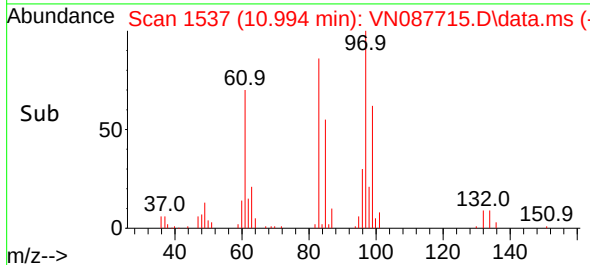
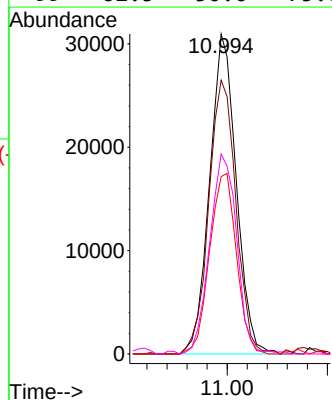
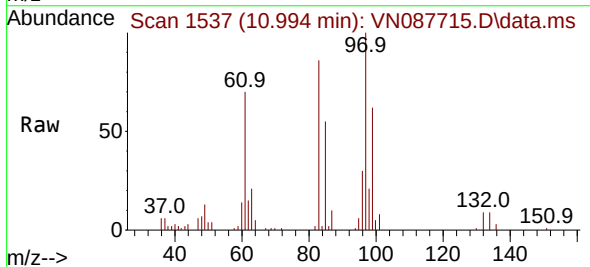
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

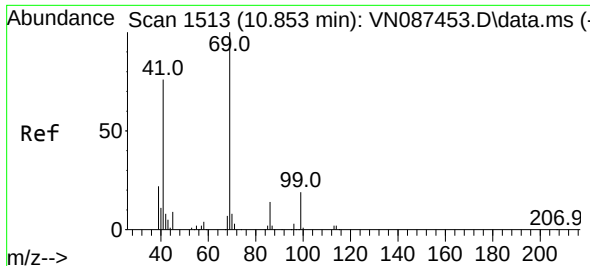
Tgt Ion: 75 Resp: 96006  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 24.6 36.8  
 39 54.4 51.5 77.3



#50  
 1,1,2-Trichloroethane  
 Concen: 19.692 ug/l  
 RT: 10.994 min Scan# 1537  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion: 97 Resp: 56983  
 Ion Ratio Lower Upper  
 97 100  
 83 85.6 66.2 99.2  
 85 55.4 43.9 65.9  
 99 62.5 50.0 75.0

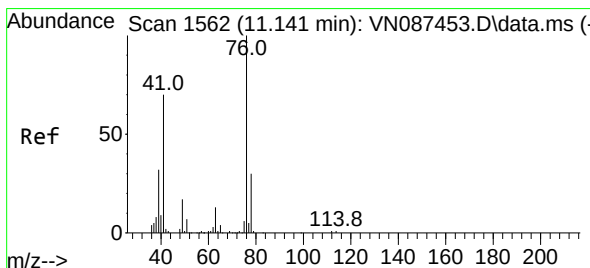
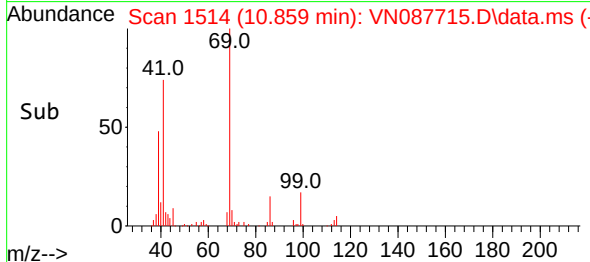
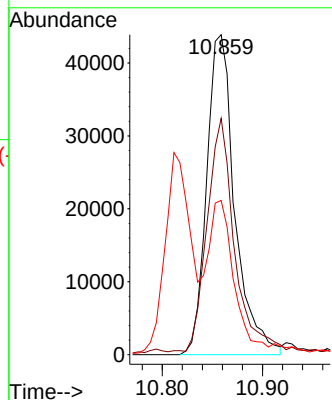
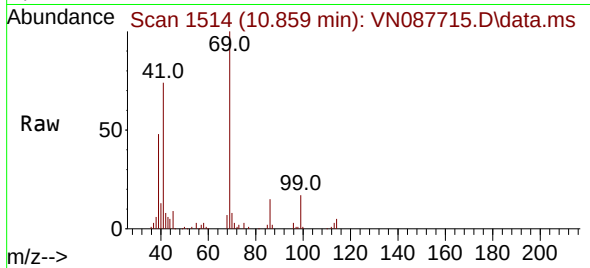




#51  
Ethyl methacrylate  
Concen: 16.766 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

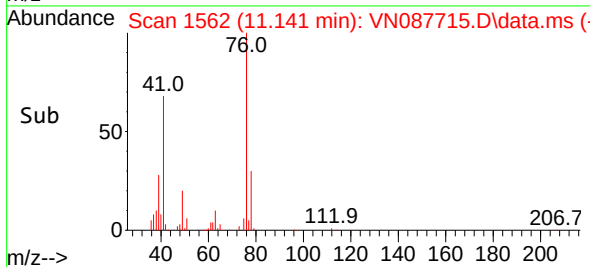
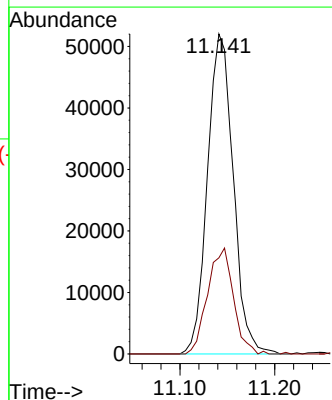
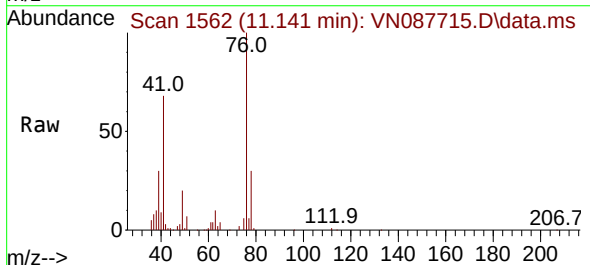
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

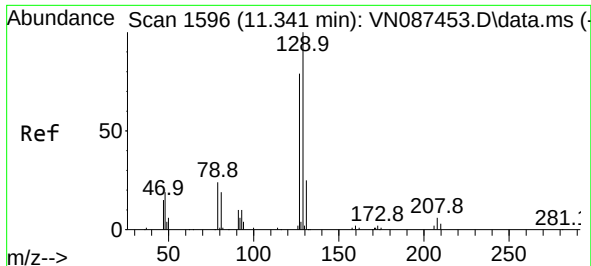
Tgt Ion: 69 Resp: 85447  
Ion Ratio Lower Upper  
69 100  
41 72.6 38.0 114.1  
39 45.6 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 18.892 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 76 Resp: 98490  
Ion Ratio Lower Upper  
76 100  
78 33.0 0.0 63.0

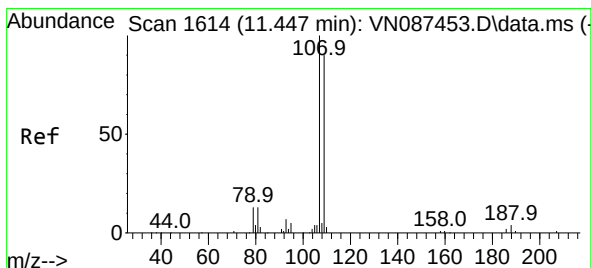
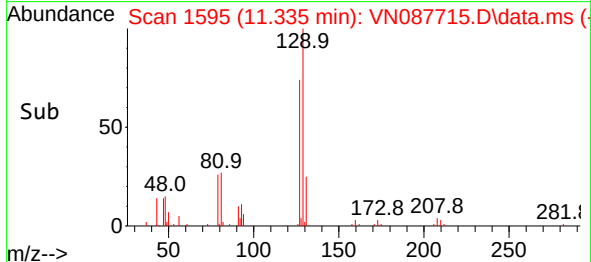
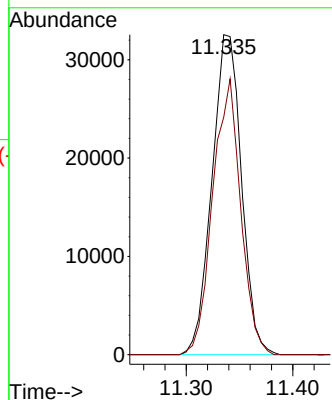
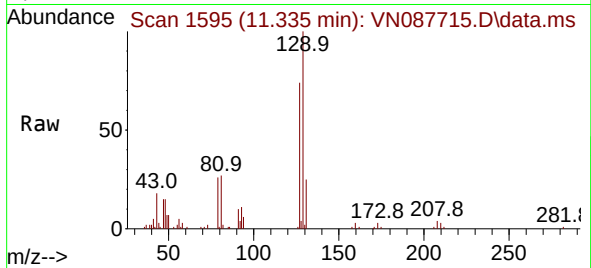




#53  
Dibromochloromethane  
Concen: 18.773 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

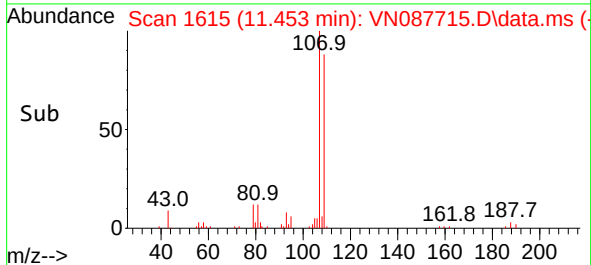
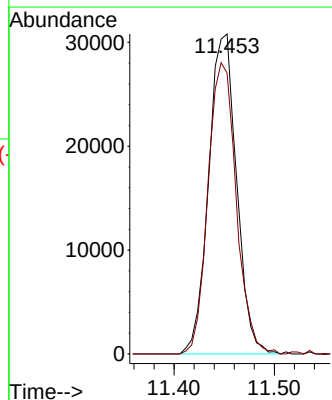
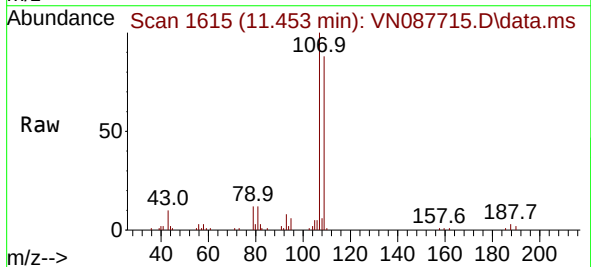
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

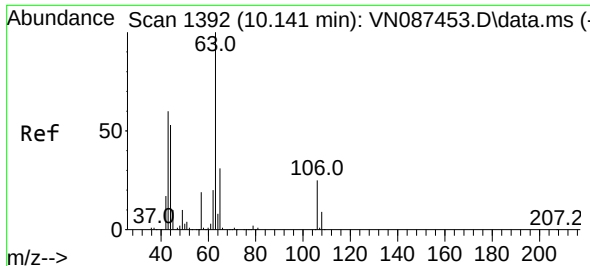
Tgt Ion:129 Resp: 62738  
Ion Ratio Lower Upper  
129 100  
127 81.4 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 19.397 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:107 Resp: 59585  
Ion Ratio Lower Upper  
107 100  
109 92.0 74.2 111.4

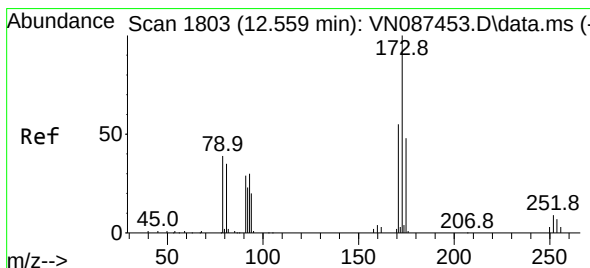
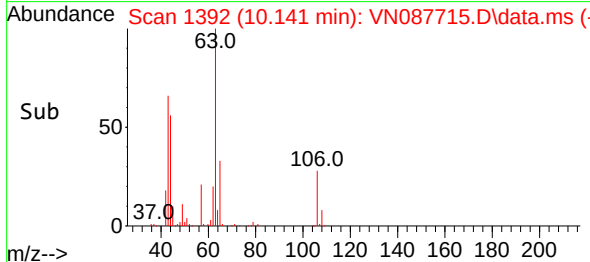
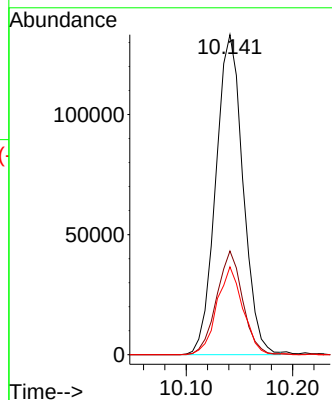
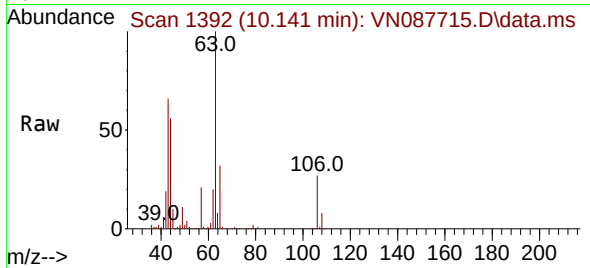




#55  
2-Chloroethyl vinyl ether  
Concen: 88.133 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

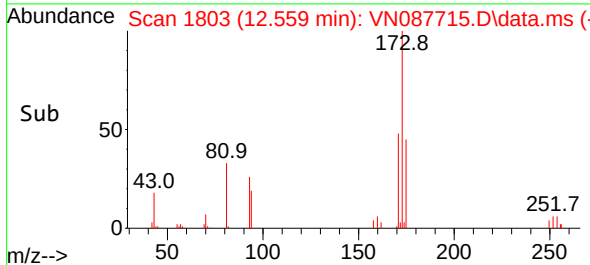
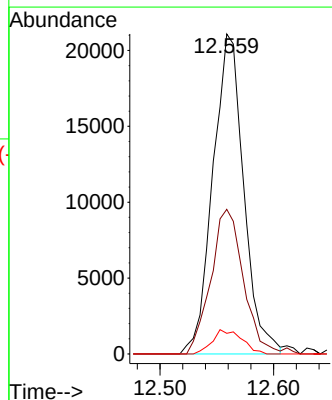
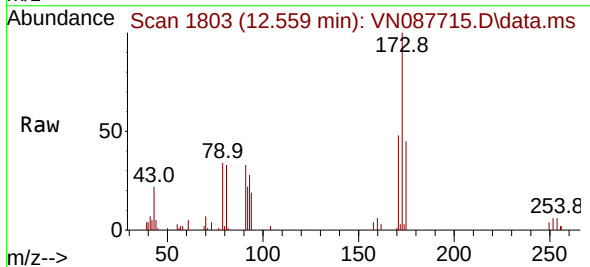
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

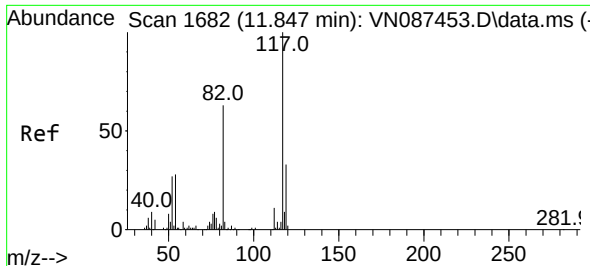
Tgt Ion: 63 Resp: 236450  
Ion Ratio Lower Upper  
63 100  
65 31.1 25.7 38.5  
106 26.2 20.7 31.1



#56  
Bromoform  
Concen: 17.992 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 173 Resp: 39771  
Ion Ratio Lower Upper  
173 100  
175 47.5 38.8 58.2  
254 7.3 3.9 5.9#

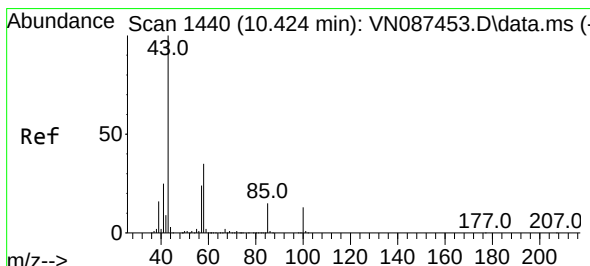
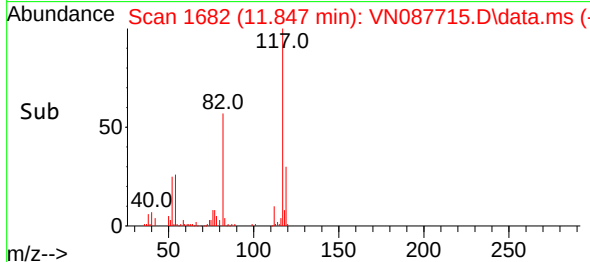
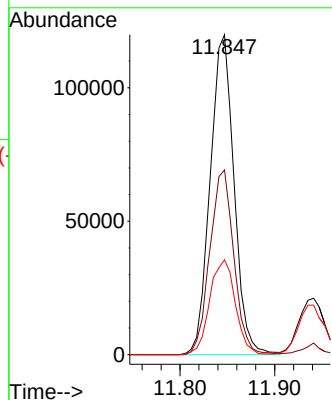
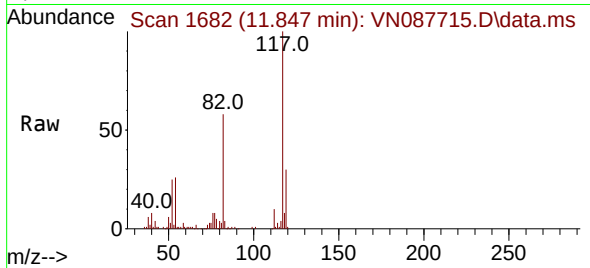




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

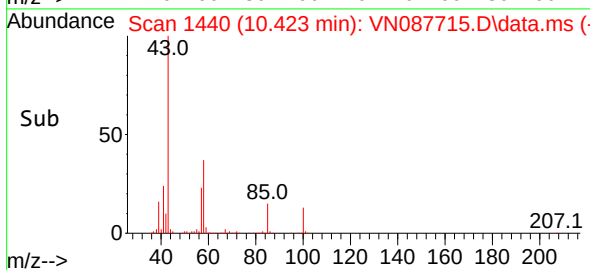
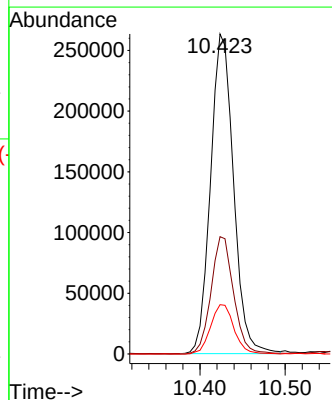
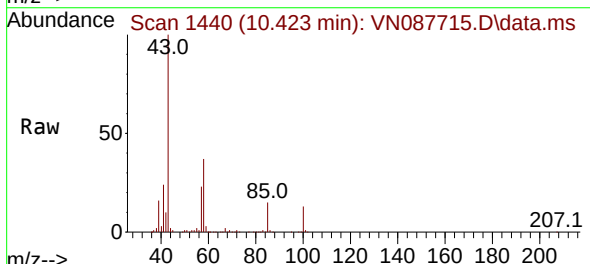
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

Tgt Ion:117 Resp: 210355  
Ion Ratio Lower Upper  
117 100  
82 58.2 49.2 73.8  
119 31.7 25.7 38.5

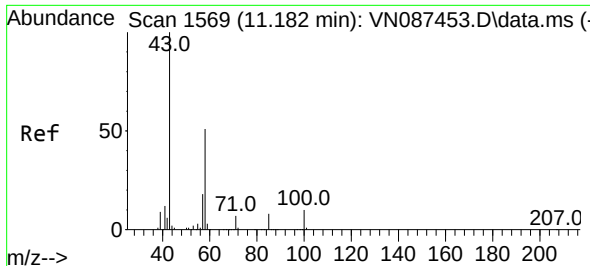


#58  
4-Methyl-2-Pentanone  
Concen: 91.248 ug/l  
RT: 10.423 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 493774  
Ion Ratio Lower Upper  
43 100  
58 36.0 29.0 43.6  
85 15.7 12.7 19.1



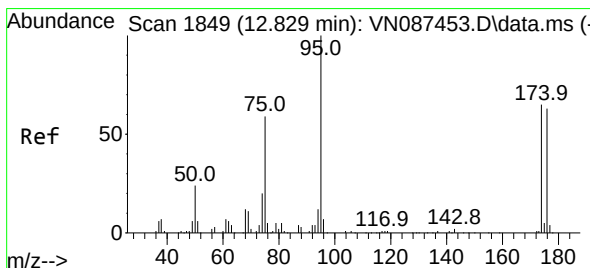
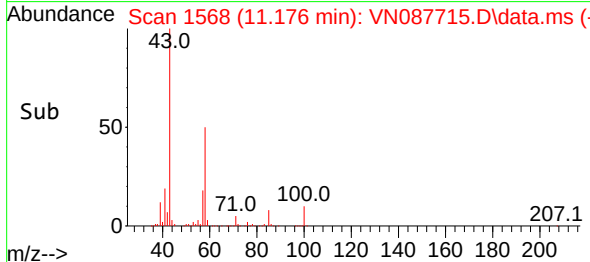
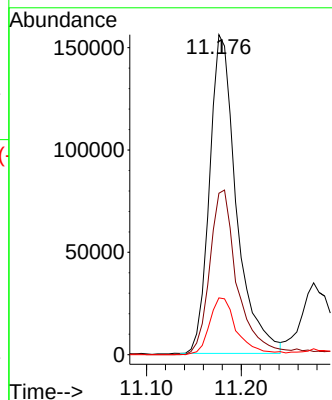
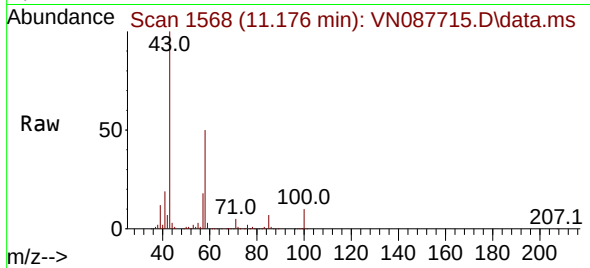




#59  
2-Hexanone  
Concen: 83.593 ug/l  
RT: 11.176 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

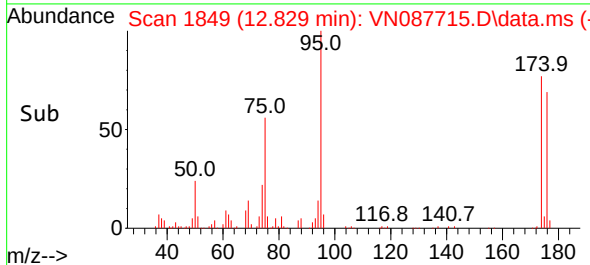
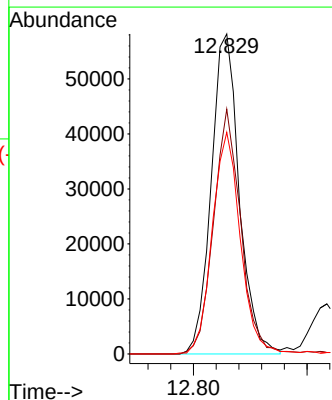
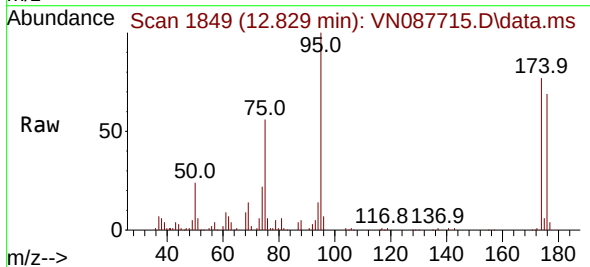
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

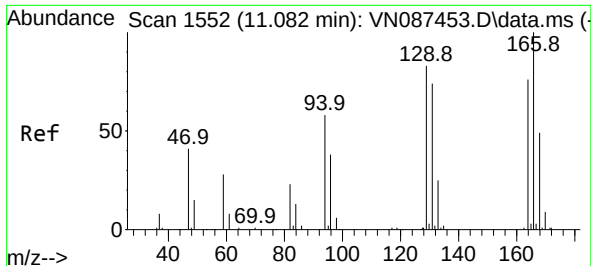
Tgt Ion: 43 Resp: 307348  
Ion Ratio Lower Upper  
43 100  
58 52.8 41.0 61.6  
57 17.9 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 27.606 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 95 Resp: 99936  
Ion Ratio Lower Upper  
95 100  
174 73.9 52.3 78.5  
176 68.9 49.8 74.8

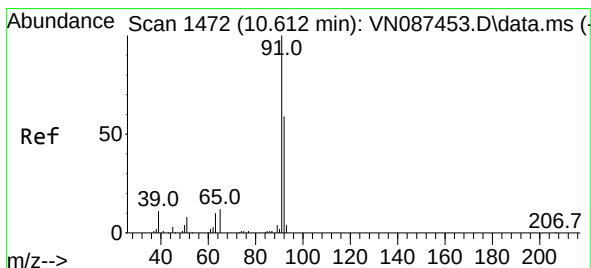
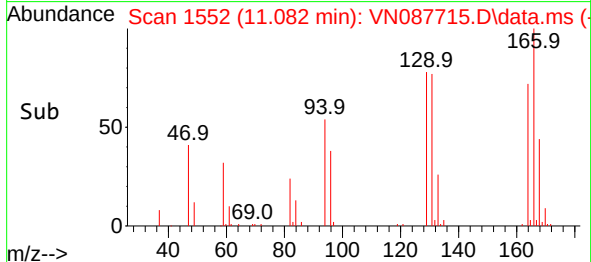
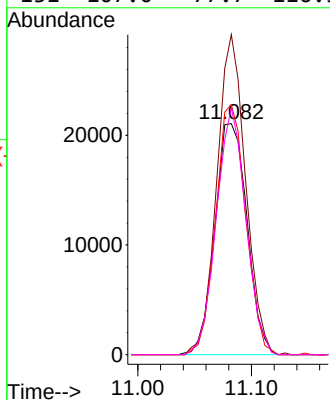
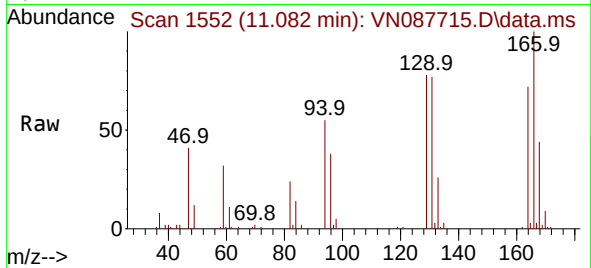




#61  
Tetrachloroethene  
Concen: 20.226 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

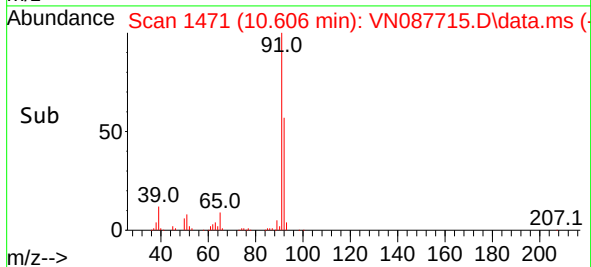
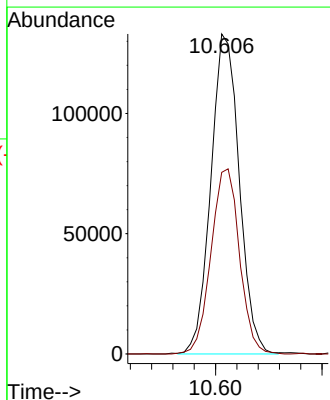
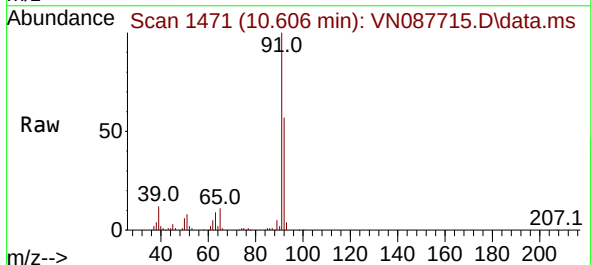
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

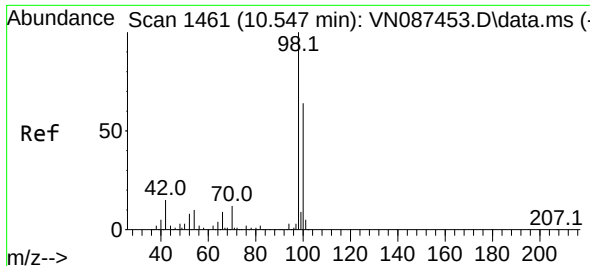
Tgt Ion:164 Resp: 41450  
Ion Ratio Lower Upper  
164 100  
166 138.5 105.4 158.0  
129 108.2 87.7 131.5  
131 107.0 77.7 116.5



#62  
Toluene  
Concen: 18.968 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 246270  
Ion Ratio Lower Upper  
91 100  
92 57.9 45.8 68.6

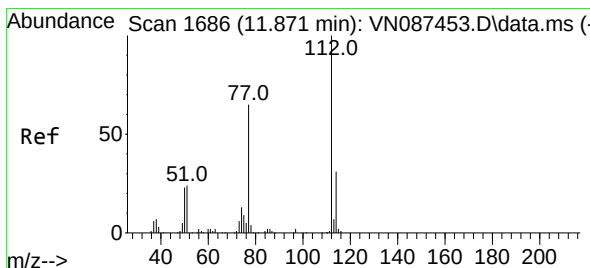
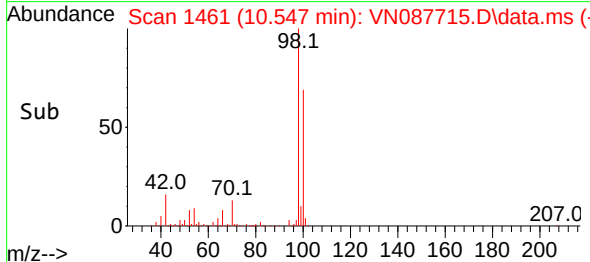
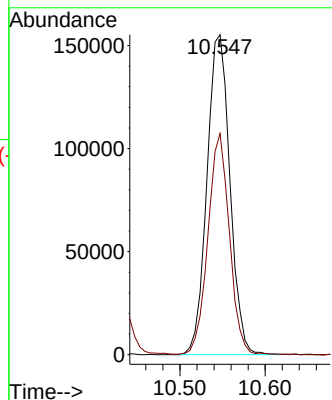
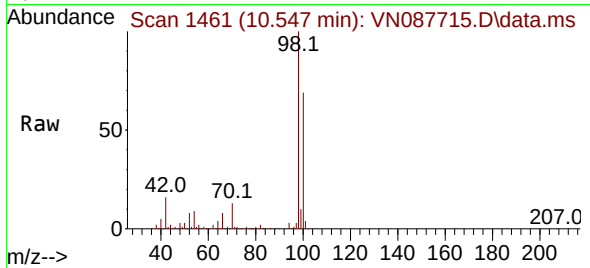




#63  
Toluene-d8  
Concen: 30.090 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

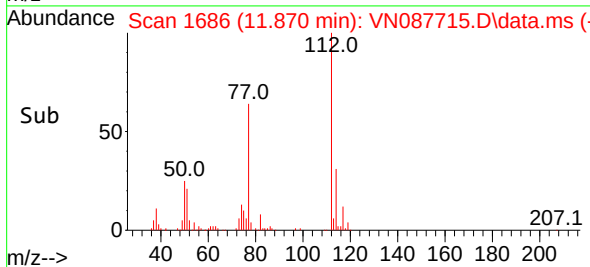
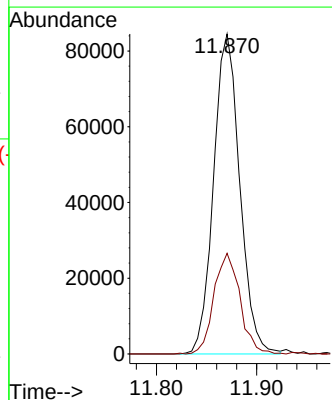
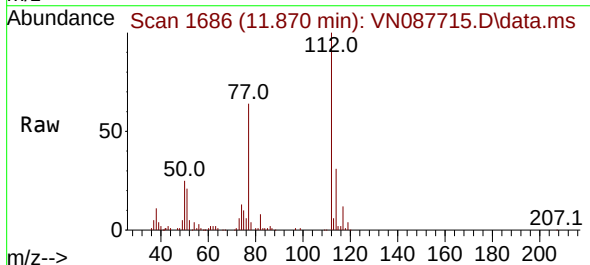
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

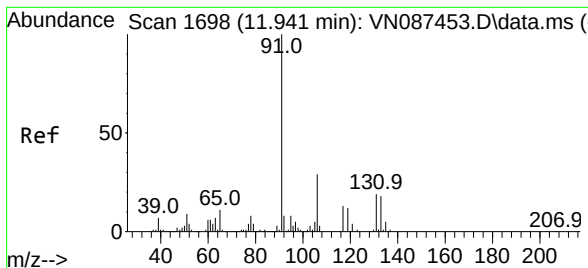
Tgt Ion: 98 Resp: 291239  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.5 75.7



#64  
Chlorobenzene  
Concen: 19.229 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 112 Resp: 153403  
Ion Ratio Lower Upper  
112 100  
114 31.2 24.7 37.1

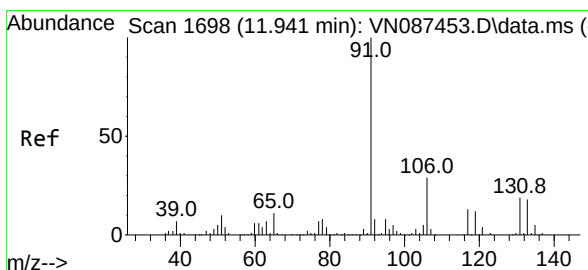
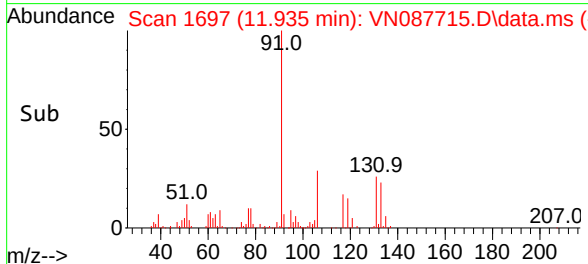
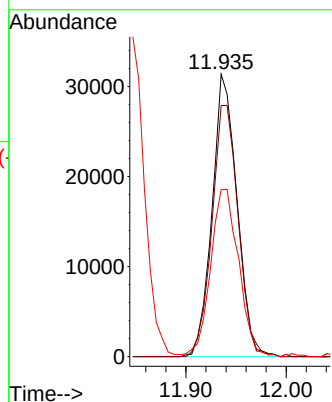
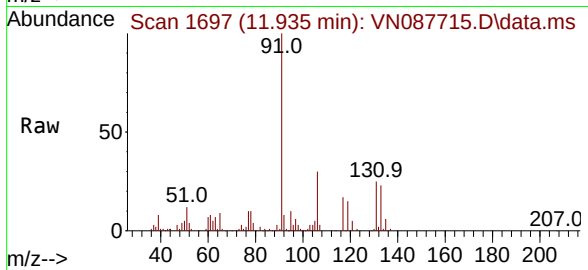




#65  
1,1,1,2-Tetrachloroethane  
Concen: 19.248 ug/l  
RT: 11.935 min Scan# 1697  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

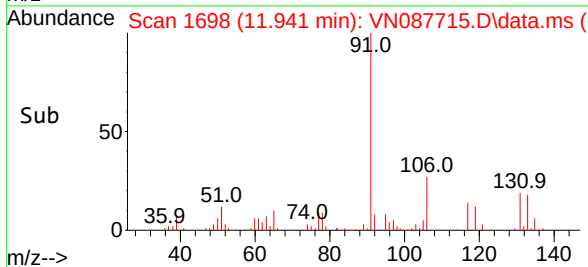
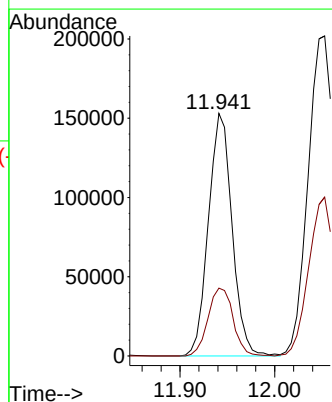
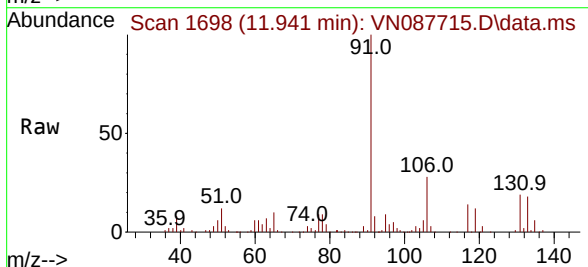
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

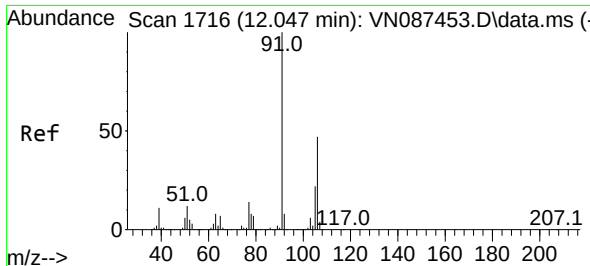
Tgt Ion:131 Resp: 53989  
Ion Ratio Lower Upper  
131 100  
133 94.1 0.0 189.8  
119 66.7 0.0 133.2



#66  
Ethyl Benzene  
Concen: 18.367 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 265786  
Ion Ratio Lower Upper  
91 100  
106 28.0 22.9 34.3

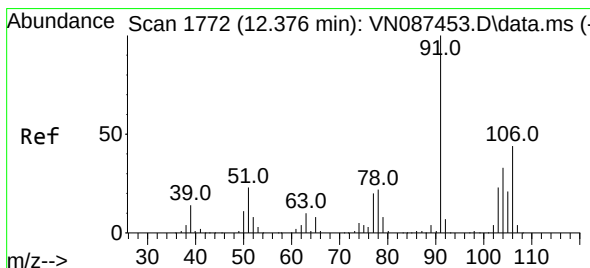
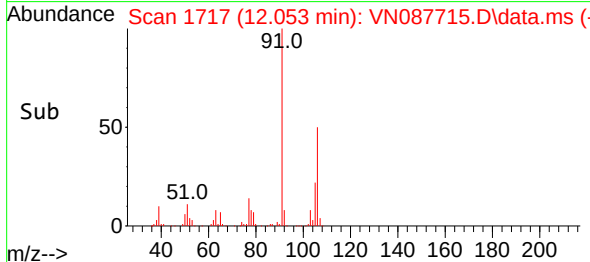
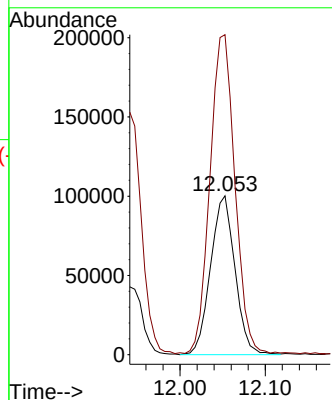
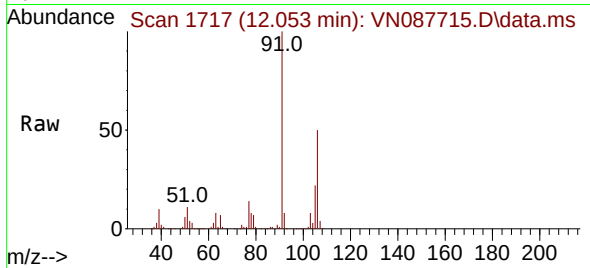




#67  
m/p-Xylenes  
Concen: 37.569 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

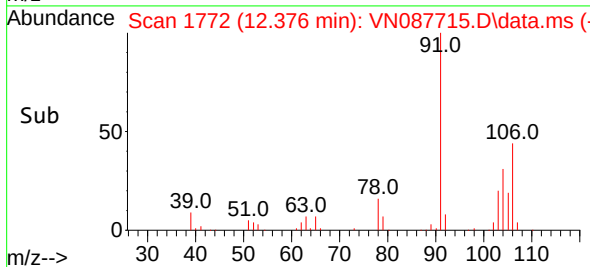
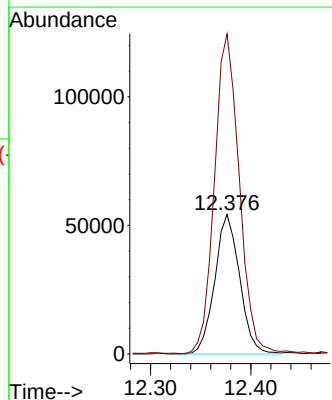
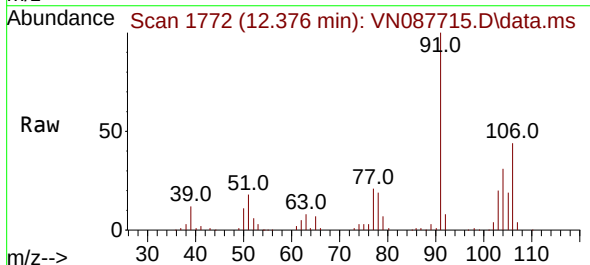
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

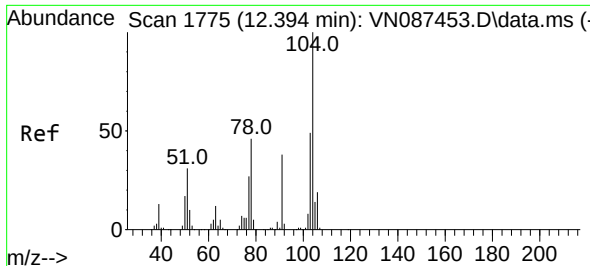
Tgt Ion:106 Resp: 199557  
Ion Ratio Lower Upper  
106 100  
91 204.8 174.2 261.2



#68  
o-Xylene  
Concen: 17.899 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:106 Resp: 93531  
Ion Ratio Lower Upper  
106 100  
91 228.5 114.5 343.5

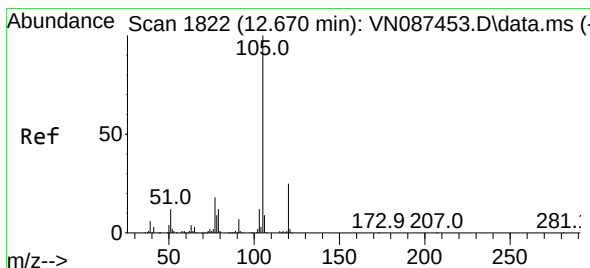
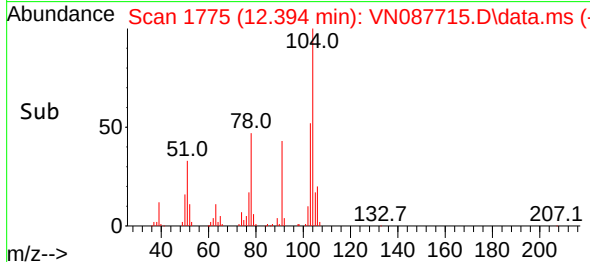
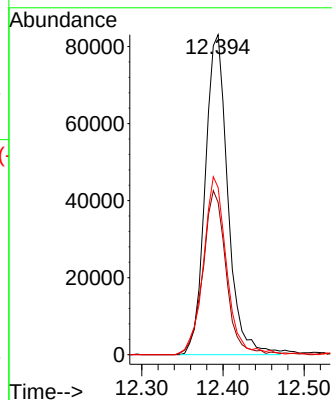
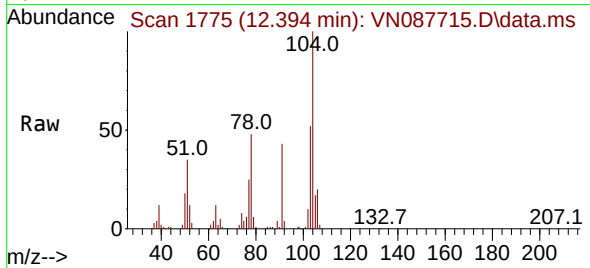




#69  
Styrene  
Concen: 18.043 ug/l  
RT: 12.394 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

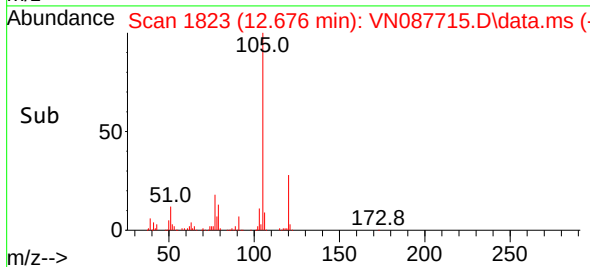
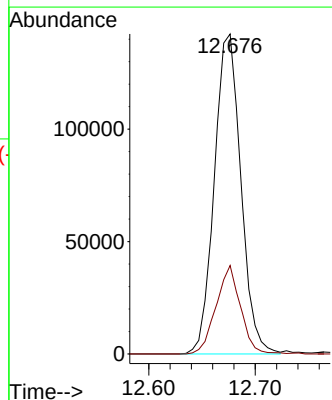
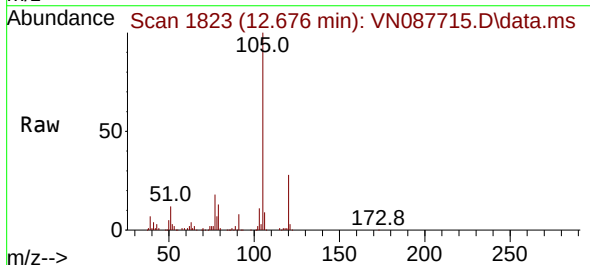
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

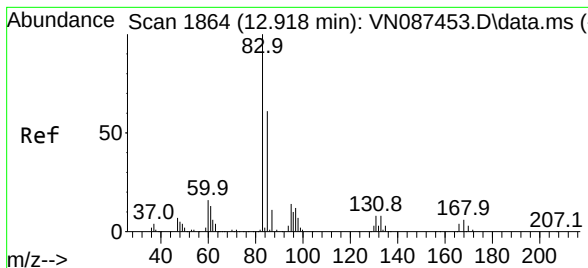
Tgt Ion:104 Resp: 160997  
Ion Ratio Lower Upper  
104 100  
78 52.1 43.8 65.8  
103 55.7 43.1 64.7



#70  
Isopropylbenzene  
Concen: 18.546 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 246218  
Ion Ratio Lower Upper  
105 100  
120 25.3 17.5 32.5

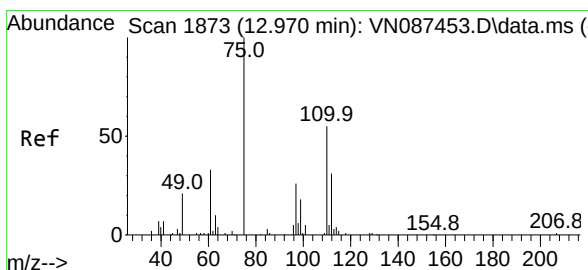
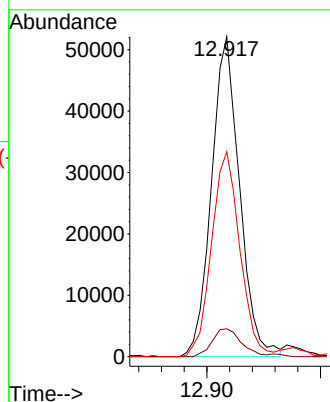
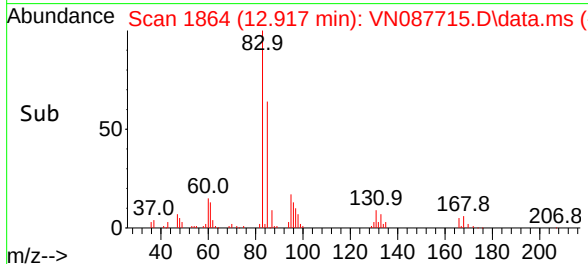
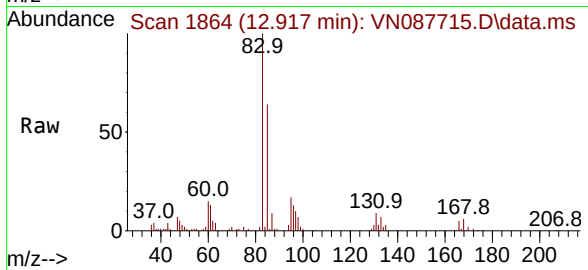




#71  
1,1,2-Tetrachloroethane  
Concen: 19.705 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

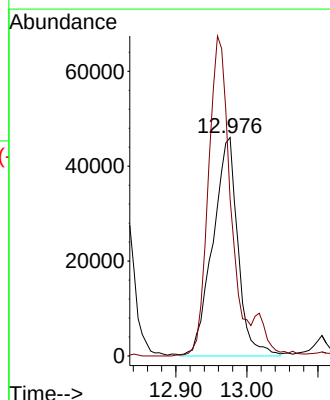
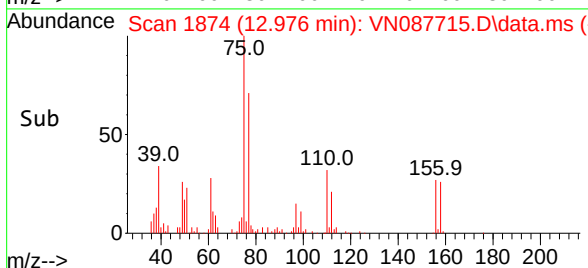
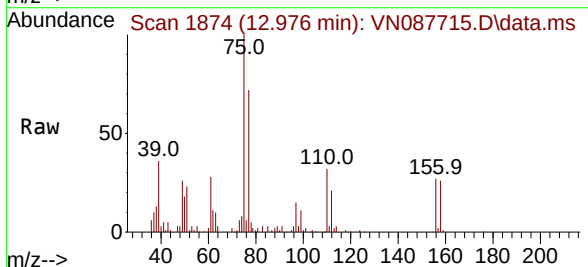
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

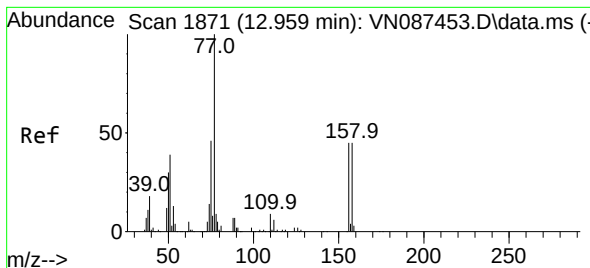
Tgt Ion: 83 Resp: 89634  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.8 14.3  
85 64.4 31.7 95.1



#72  
1,2,3-Trichloropropane  
Concen: 26.658 ug/l  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 112967  
Ion Ratio Lower Upper  
75 100  
77 128.7 0.0 385.0





#73

Bromobenzene

Concen: 19.718 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

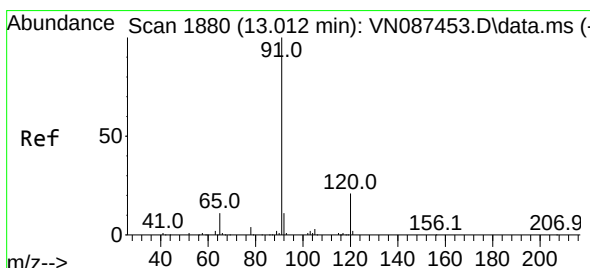
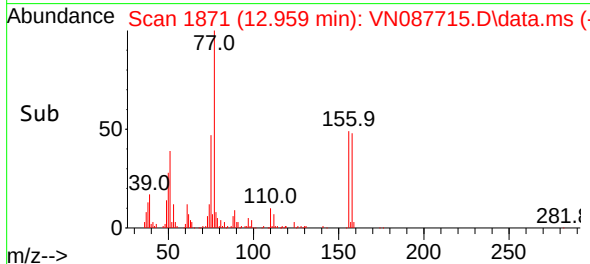
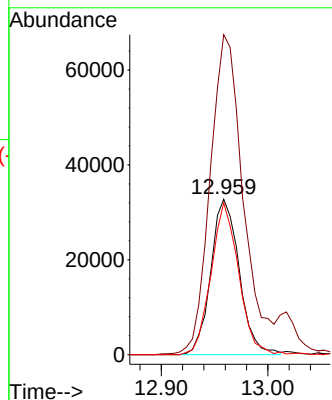
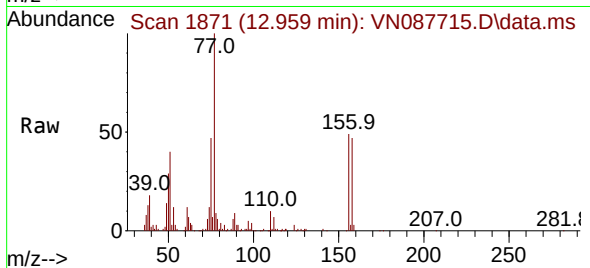
Tgt Ion:156 Resp: 60686

Ion Ratio Lower Upper

156 100

77 239.6 0.0 506.6

158 94.8 0.0 193.6



#74

n-propylbenzene

Concen: 18.854 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VN087715.D

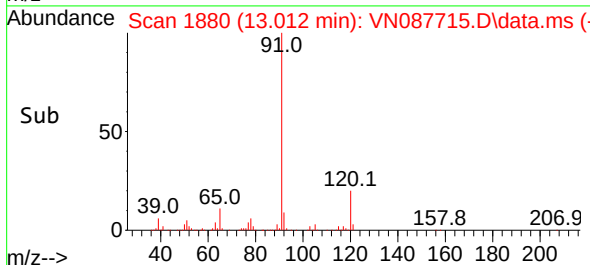
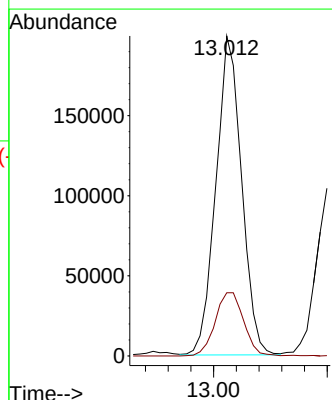
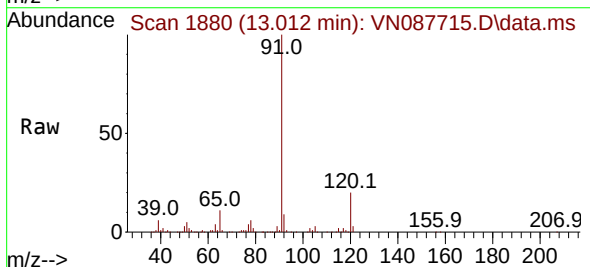
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 312613

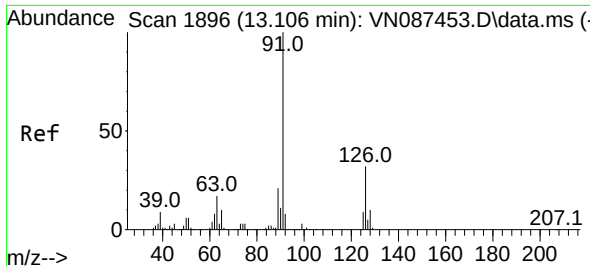
Ion Ratio Lower Upper

91 100

120 22.0 0.0 41.8



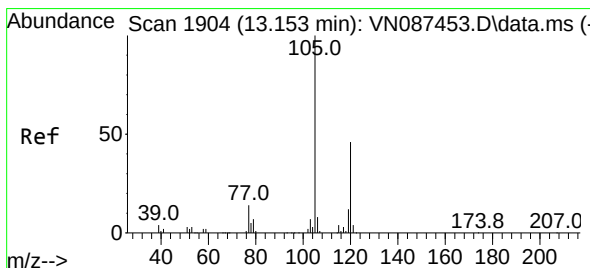
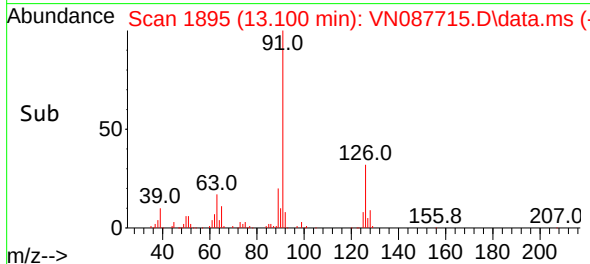
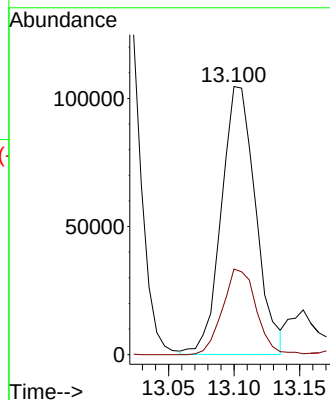
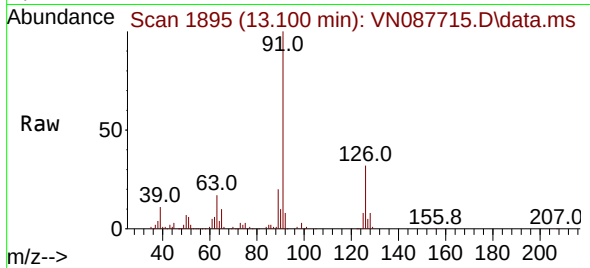




#75  
2-Chlorotoluene  
Concen: 18.658 ug/l  
RT: 13.100 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

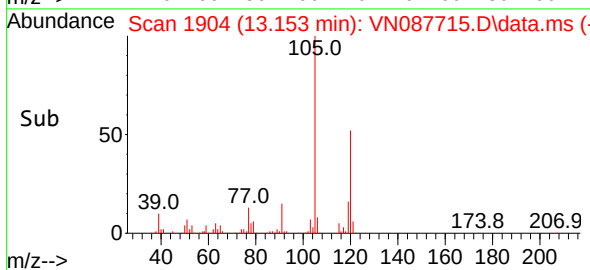
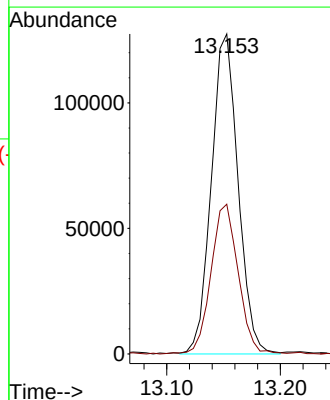
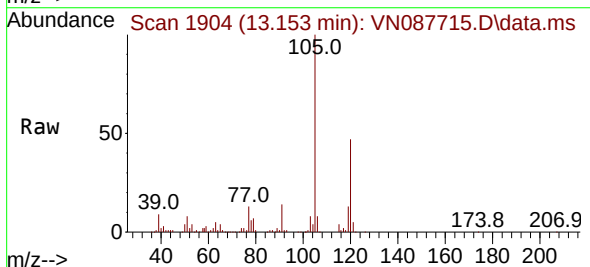
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

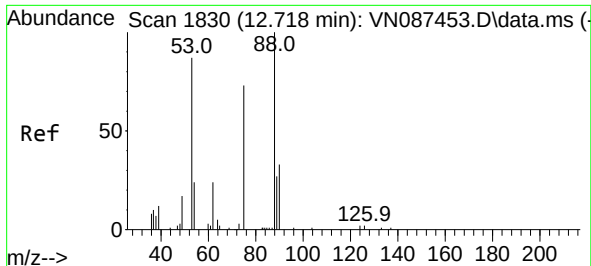
Tgt Ion: 91 Resp: 190294  
Ion Ratio Lower Upper  
91 100  
126 31.2 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 18.317 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 105 Resp: 208218  
Ion Ratio Lower Upper  
105 100  
120 47.7 0.0 91.2

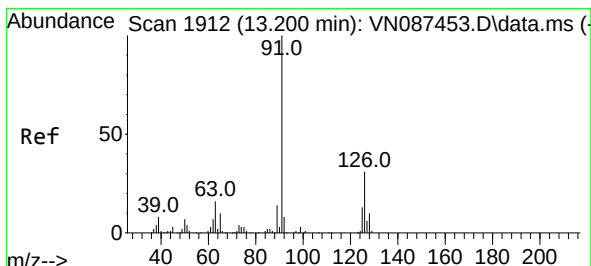
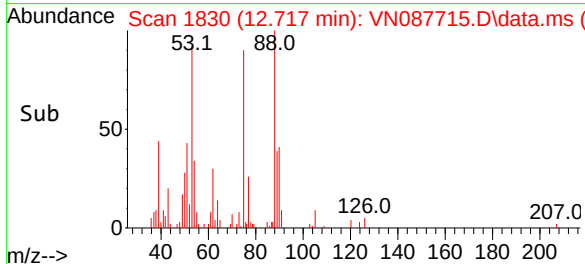
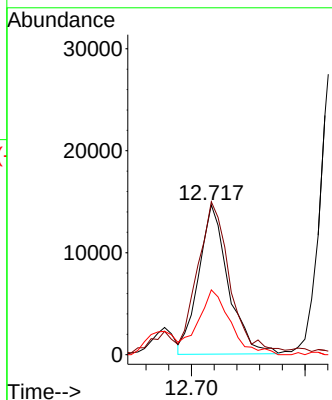
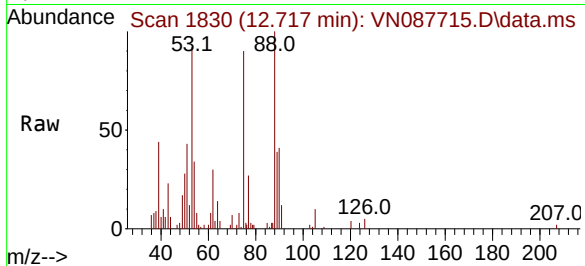




#77  
t-1,4-Dichloro-2-butene  
Concen: 16.477 ug/l  
RT: 12.717 min Scan# 1830  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

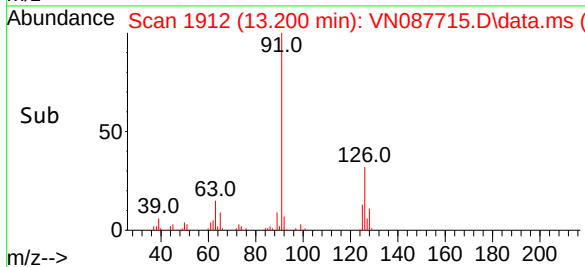
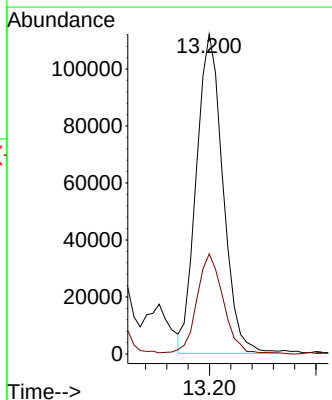
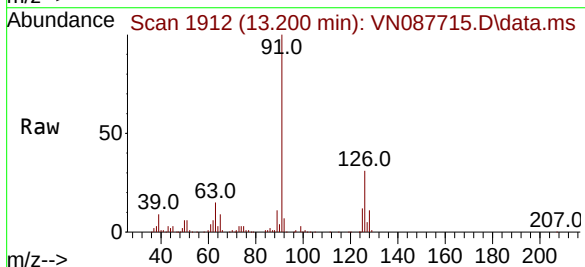
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

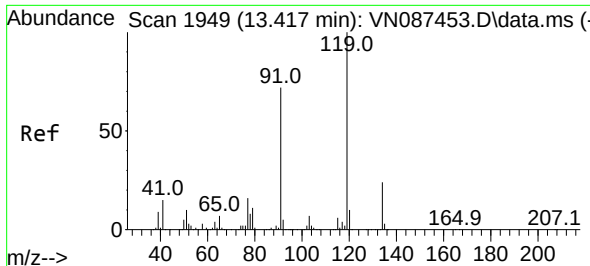
Tgt Ion: 75 Resp: 26432  
Ion Ratio Lower Upper  
75 100  
53 96.7 59.0 176.8  
89 43.8 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 18.828 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 194600  
Ion Ratio Lower Upper  
91 100  
126 30.0 0.0 63.2

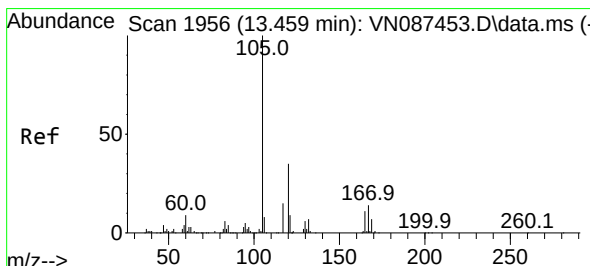
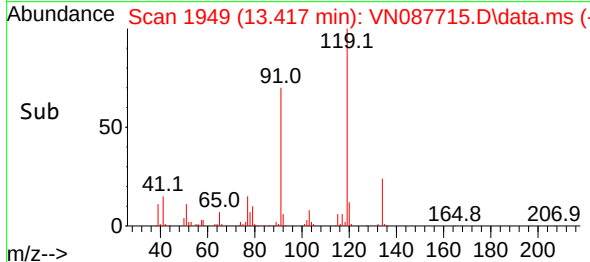
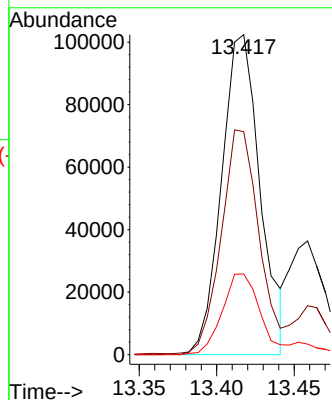
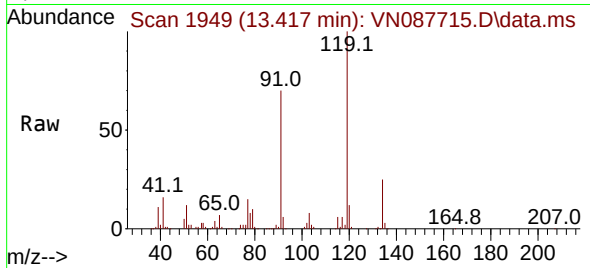




#79  
tert-butylbenzene  
Concen: 18.529 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

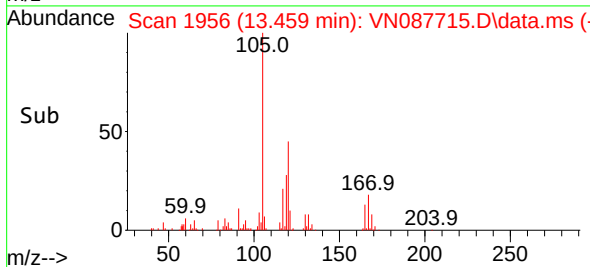
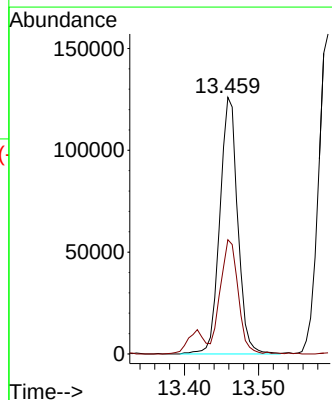
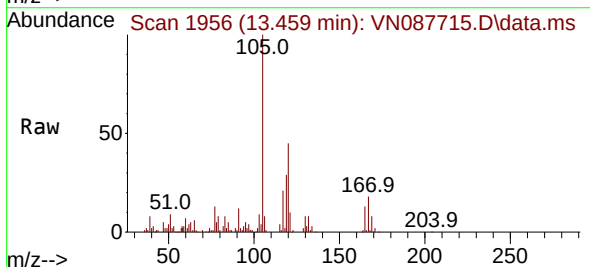
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

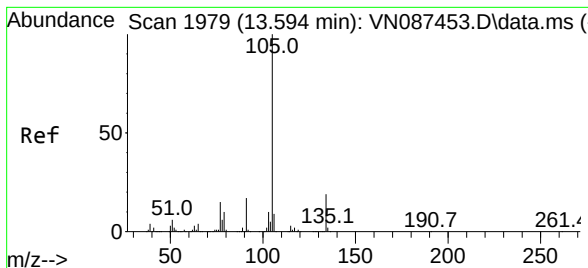
Tgt Ion:119 Resp: 177581  
Ion Ratio Lower Upper  
119 100  
91 68.0 0.0 141.6  
134 24.9 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 18.601 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 211280  
Ion Ratio Lower Upper  
105 100  
120 43.5 0.0 87.2

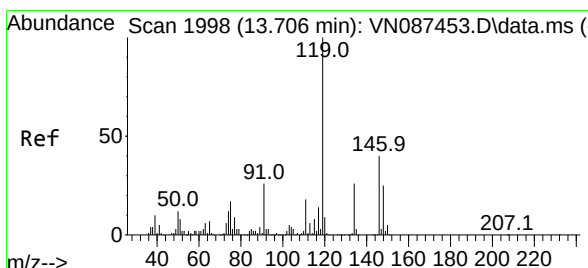
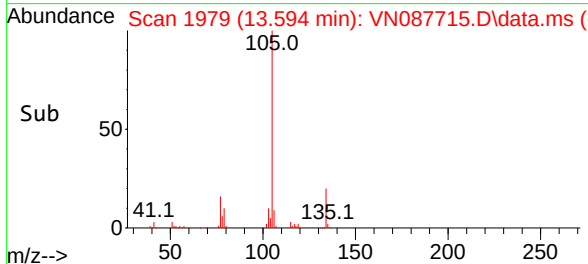
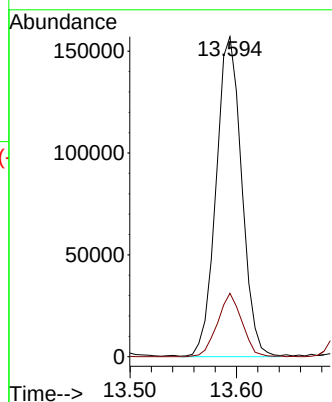
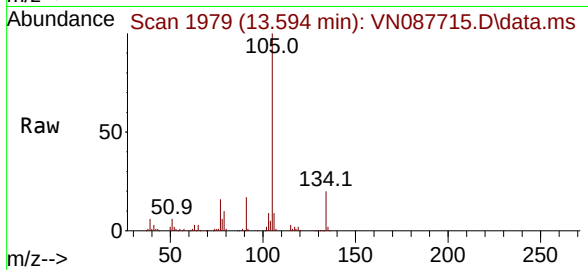




#81  
 sec-Butylbenzene  
 Concen: 18.779 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

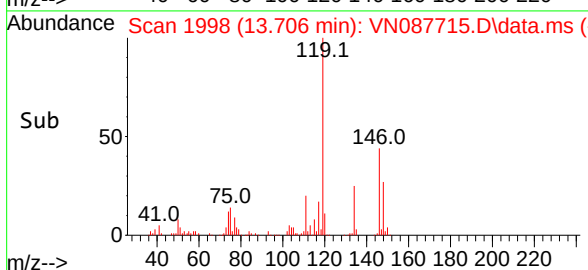
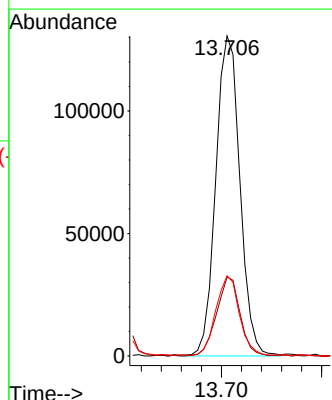
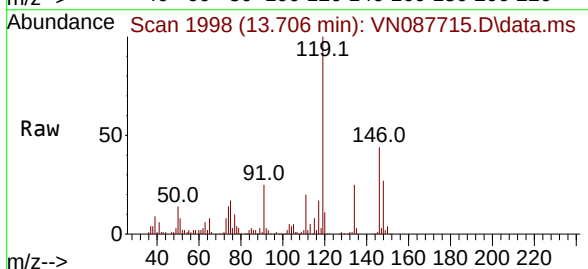
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

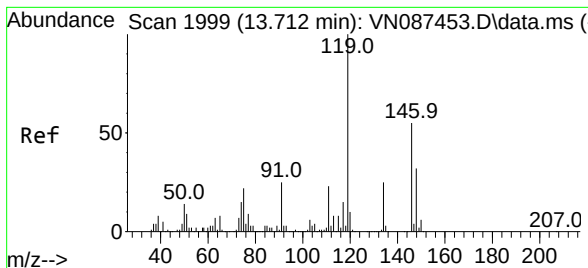
Tgt Ion:105 Resp: 262011  
 Ion Ratio Lower Upper  
 105 100  
 134 18.9 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 18.836 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion:119 Resp: 218207  
 Ion Ratio Lower Upper  
 119 100  
 134 24.0 0.0 51.4  
 91 24.3 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 19.362 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBS01

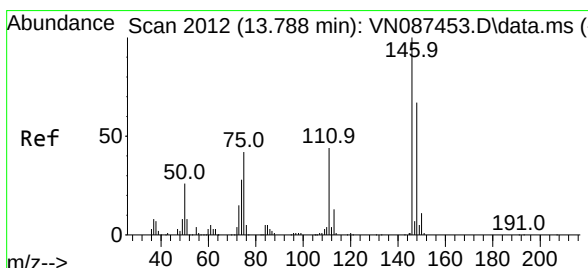
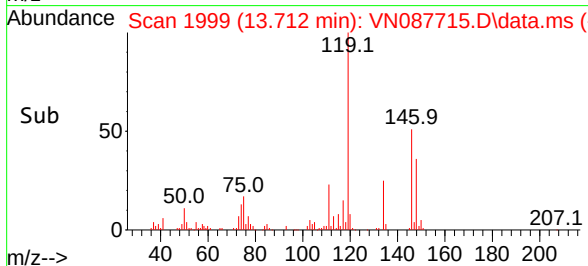
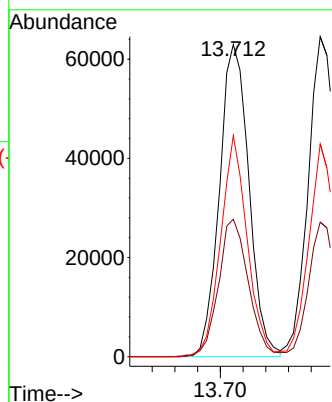
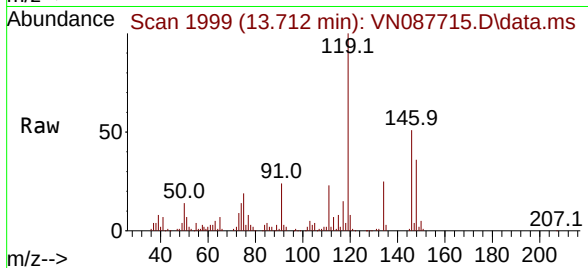
Tgt Ion:146 Resp: 113472

Ion Ratio Lower Upper

146 100

111 44.6 21.9 65.5

148 63.8 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 19.743 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

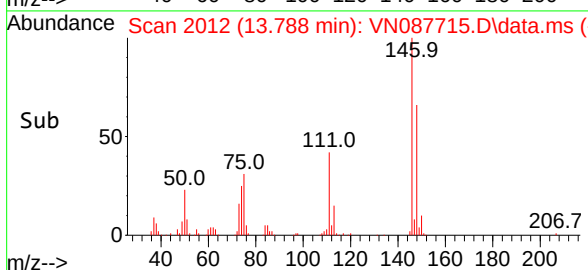
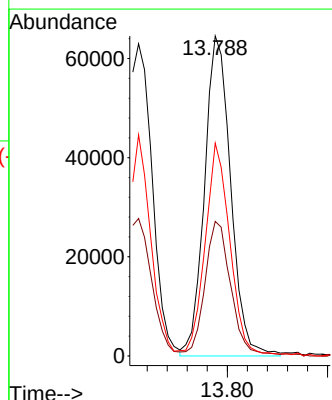
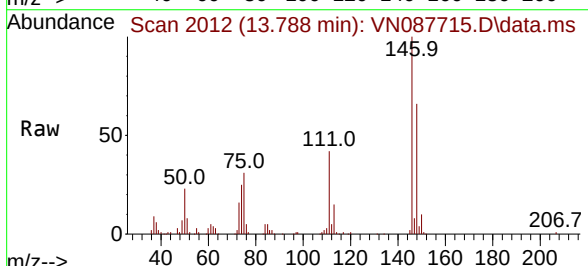
Tgt Ion:146 Resp: 117304

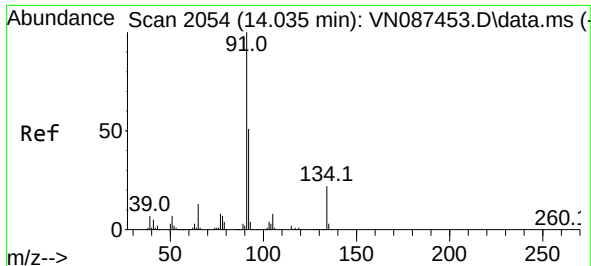
Ion Ratio Lower Upper

146 100

111 41.5 21.1 63.1

148 63.1 31.4 94.3

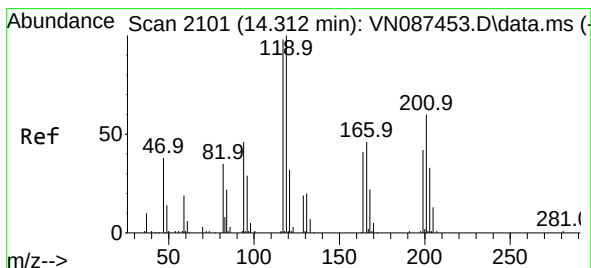
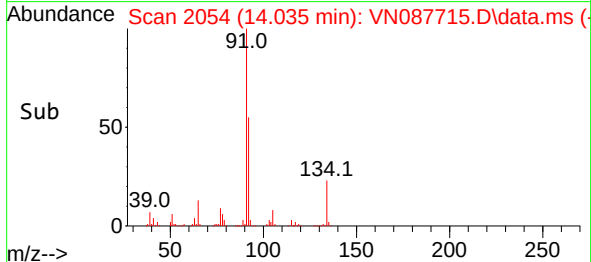
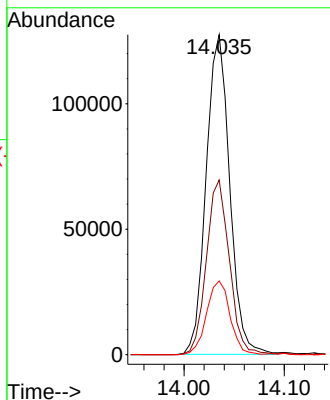
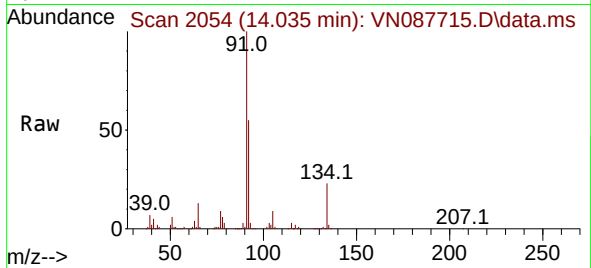




#85  
n-Butylbenzene  
Concen: 18.360 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

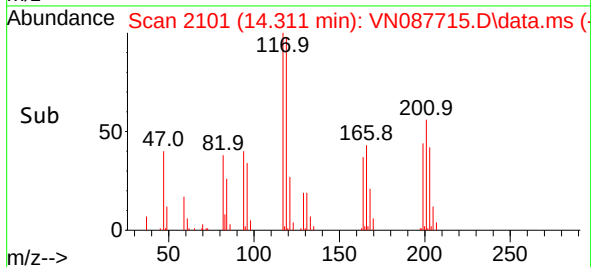
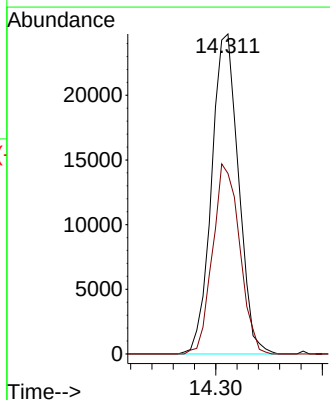
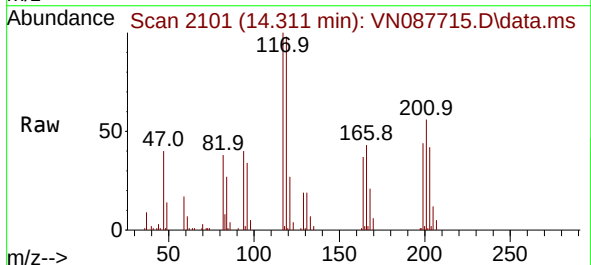
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

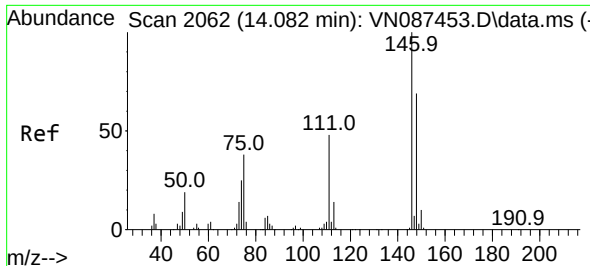
Tgt Ion: 91 Resp: 208098  
Ion Ratio Lower Upper  
91 100  
92 53.3 0.0 106.6  
134 23.0 0.0 44.4



#86  
Hexachloroethane  
Concen: 19.195 ug/l  
RT: 14.311 min Scan# 2101  
Delta R.T. -0.000 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion: 117 Resp: 43424  
Ion Ratio Lower Upper  
117 100  
201 59.5 29.1 87.4

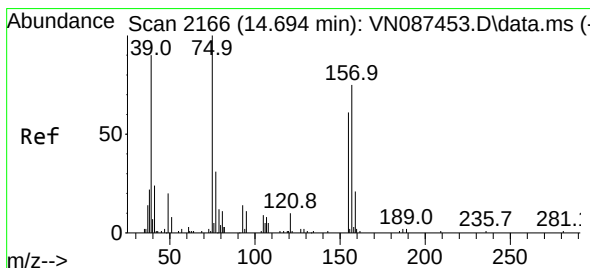
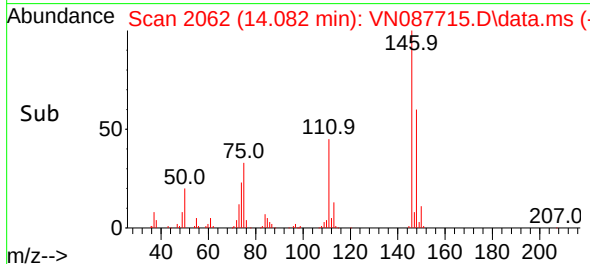
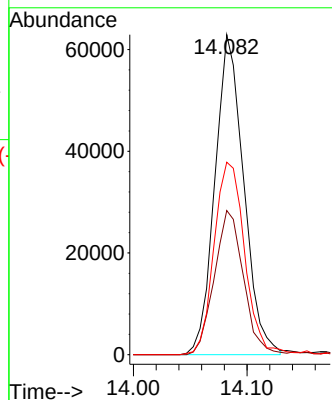
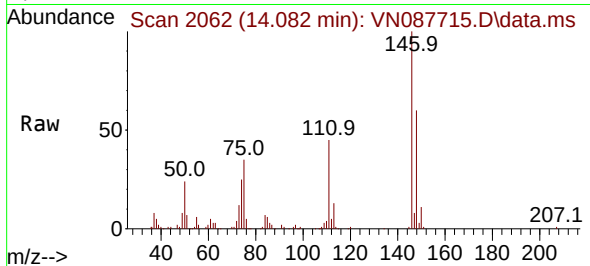




#87  
 1,2-Dichlorobenzene  
 Concen: 19.793 ug/l  
 RT: 14.082 min Scan# 2062  
 Delta R.T. -0.000 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

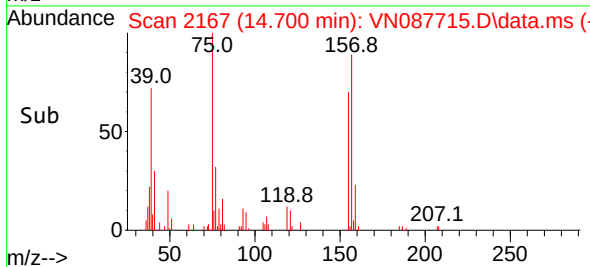
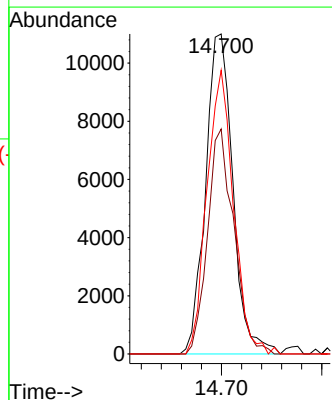
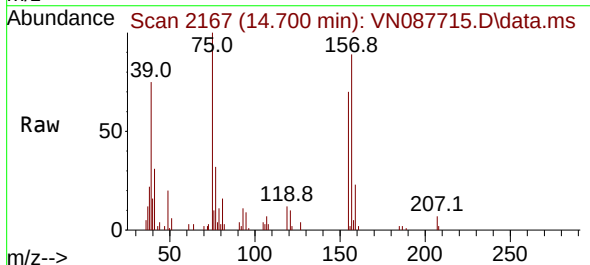
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBS01

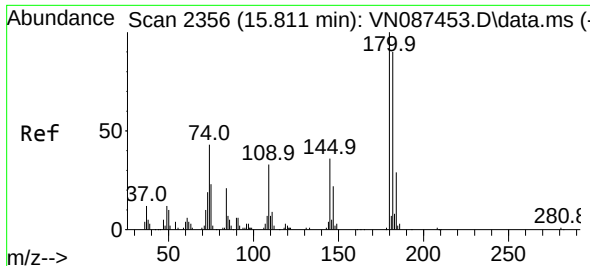
Tgt Ion:146 Resp: 110728  
 Ion Ratio Lower Upper  
 146 100  
 111 45.5 22.9 68.7  
 148 63.4 31.6 94.7



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.083 ug/l  
 RT: 14.700 min Scan# 2167  
 Delta R.T. 0.006 min  
 Lab File: VN087715.D  
 Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 20838  
 Ion Ratio Lower Upper  
 75 100  
 155 68.0 55.7 83.5  
 157 85.9 65.8 98.6

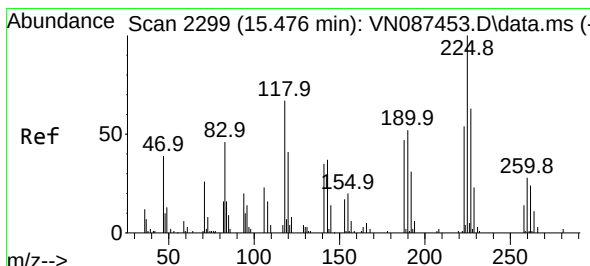
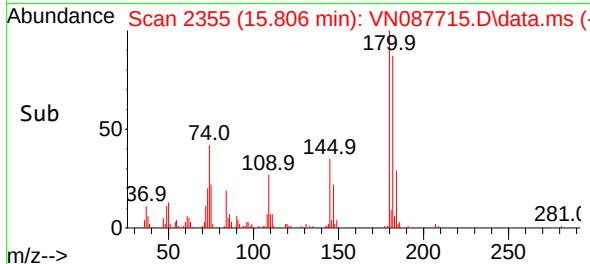
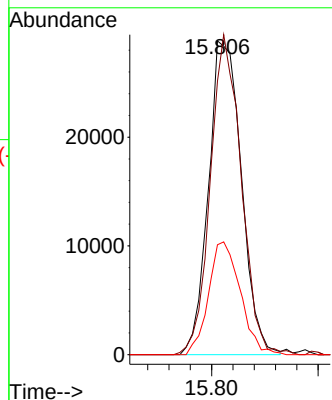
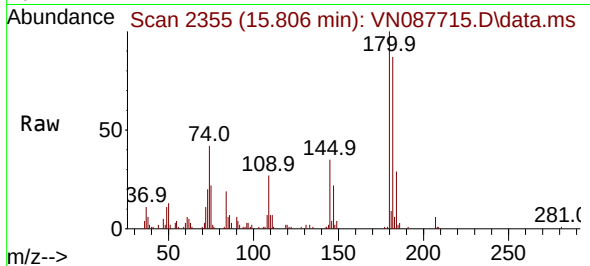




#89  
1,2,4-Trichlorobenzene  
Concen: 18.535 ug/l  
RT: 15.806 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

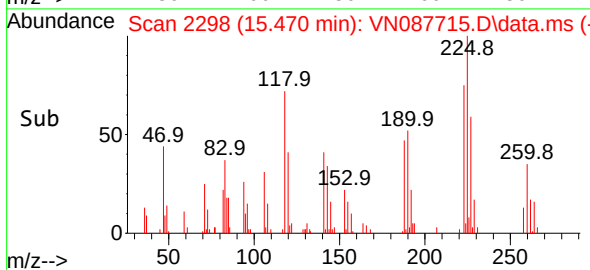
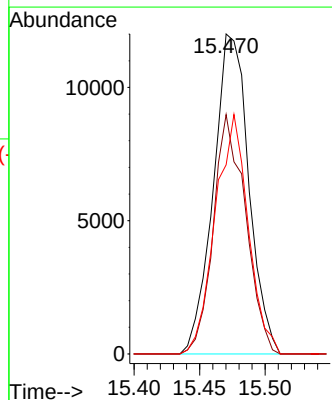
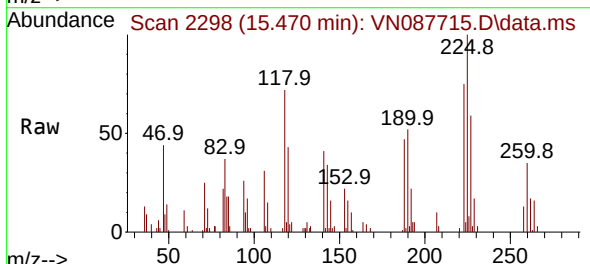
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

Tgt Ion:180 Resp: 61968  
Ion Ratio Lower Upper  
180 100  
182 94.5 75.0 112.4  
145 34.7 28.6 43.0

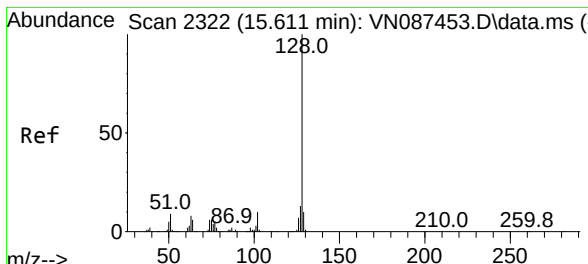


#90  
Hexachlorobutadiene  
Concen: 17.336 ug/l  
RT: 15.470 min Scan# 2298  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:225 Resp: 22537  
Ion Ratio Lower Upper  
225 100  
223 68.0 0.0 116.0  
227 69.6 0.0 127.0



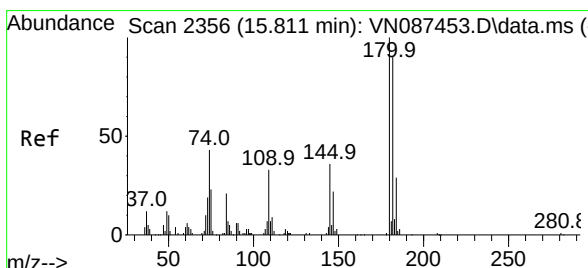
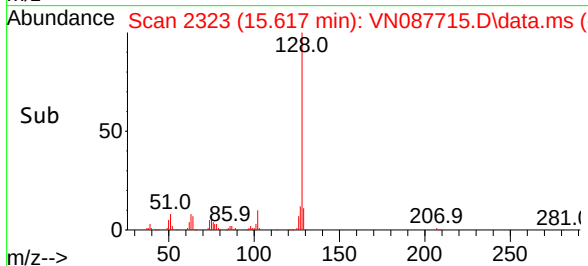
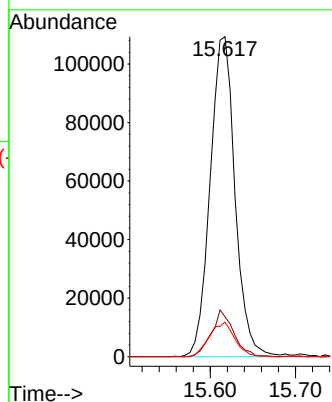
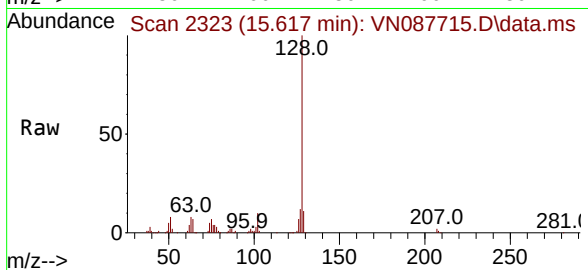




#91  
Naphthalene  
Concen: 17.372 ug/l  
RT: 15.617 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

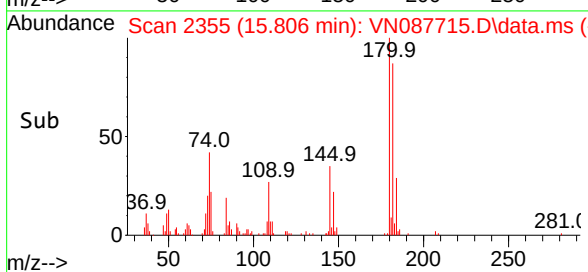
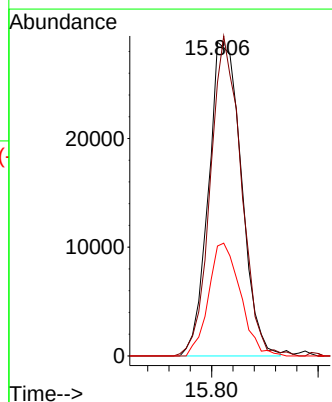
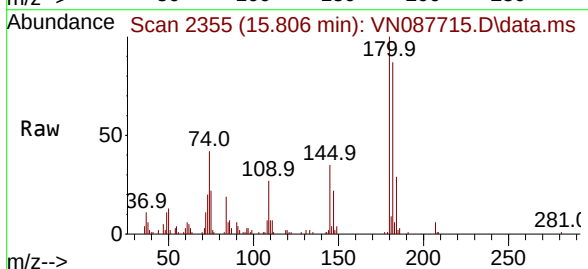
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBS01

Tgt Ion:128 Resp: 221459  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 11.0 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 18.535 ug/l  
RT: 15.806 min Scan# 2355  
Delta R.T. -0.006 min  
Lab File: VN087715.D  
Acq: 04 Sep 2025 12:04

Tgt Ion:180 Resp: 61968  
Ion Ratio Lower Upper  
180 100  
182 94.5 0.0 187.4  
145 34.7 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087716.D  
 Acq On : 04 Sep 2025 12:38  
 Operator : JC\MD  
 Sample : VN0904WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Quant Time: Sep 05 02:19:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.794  | 128   | 46987    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082  | 114   | 246294   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 222512   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 120474   | 27.798   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 92.667%  |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 109013   | 28.468   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 94.900%  |
| 63) Toluene-d8               | 10.547 | 98    | 303926   | 29.685   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 98.967%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 62535    | 20.385   | ug/l   | 94       |
| 3) Chloromethane             | 2.383  | 50    | 60059    | 19.082   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.536  | 62    | 69363    | 20.778   | ug/l   | 95       |
| 5) Bromomethane              | 2.971  | 94    | 48234    | 26.694   | ug/l   | 83       |
| 6) Chloroethane              | 3.136  | 64    | 46784    | 21.733   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.506  | 101   | 108310   | 22.544   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.959  | 74    | 42508    | 21.237   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365  | 101   | 61513    | 25.108   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 56490    | 21.951   | ug/l   | 80       |
| 11) Methyl Iodide            | 4.583  | 142   | 36400    | 17.964   | ug/l   | 92       |
| 12) Methyl Acetate           | 5.018  | 43    | 109468   | 23.051   | ug/l # | 91       |
| 13) Acrolein                 | 4.171  | 56    | 76010    | 104.794  | ug/l   | 97       |
| 14) Acrylonitrile            | 5.706  | 53    | 193739   | 93.426   | ug/l   | 98       |
| 15) Acetone                  | 4.424  | 58    | 57070    | 96.319   | ug/l   | 86       |
| 16) Carbon Disulfide         | 4.700  | 76    | 146362   | 18.335   | ug/l   | 99       |
| 17) Allyl chloride           | 5.012  | 41    | 91309    | 17.408   | ug/l   | 91       |
| 18) Methylene Chloride       | 5.271  | 84    | 65247    | 19.695   | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 5.771  | 96    | 58256    | 19.036   | ug/l # | 94       |
| 20) Diisopropyl ether        | 6.659  | 45    | 224989   | 18.829   | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 115682   | 18.729   | ug/l # | 96       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 70834    | 18.812   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.524  | 59    | 71235    | 80.841   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 209746   | 17.887   | ug/l   | 97       |
| 25) Chloroform               | 7.953  | 83    | 126402   | 19.605   | ug/l   | 99       |
| 26) Cyclohexane              | 8.241  | 56    | 89790    | 18.156   | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 8.347  | 75    | 81325    | 20.245   | ug/l   | 99       |
| 30) 2-Butanone               | 7.471  | 43    | 291380   | 98.404   | ug/l # | 82       |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 103342   | 19.946   | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 8.147  | 97    | 107431   | 20.969   | ug/l   | 95       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 88828    | 20.870   | ug/l   | 94       |
| 34) Benzene                  | 8.588  | 78    | 254532   | 20.073   | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.759  | 41    | 57887    | 18.116   | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 98643    | 19.247   | ug/l   | 99       |
| 37) Trichloroethene          | 9.330  | 130   | 58350    | 20.890   | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.577  | 83    | 88823    | 19.060   | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 68663    | 21.119   | ug/l   | 97       |
| 40) Dibromomethane           | 9.688  | 93    | 50029    | 20.509   | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.865  | 83    | 101960   | 20.115   | ug/l   | 99       |
| 42) Vinyl Acetate            | 6.589  | 43    | 885124   | 90.770   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087716.D  
 Acq On : 04 Sep 2025 12:38  
 Operator : JC\MD  
 Sample : VN0904WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

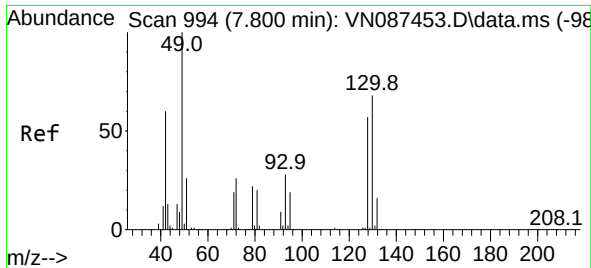
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Quant Time: Sep 05 02:19:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 111211   | 19.441  | ug/l   | 97       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 183479   | 18.922  | ug/l   | 97       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 23806    | 385.110 | ug/l # | 87       |
| 46) Methyl methacrylate       | 9.659  | 41   | 80320    | 17.548  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.541 | 43   | 13853    | 2.586   | ug/l # | 75       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 106677   | 19.344  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 108236   | 19.503  | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 68256    | 22.146  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 101895   | 18.772  | ug/l   | 95       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 113637   | 20.465  | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.335 | 129  | 75193    | 21.125  | ug/l   | 96       |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 66187    | 20.230  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 294669   | 103.123 | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 47049    | 19.985  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 579891   | 101.308 | ug/l   | 100      |
| 59) 2-Hexanone                | 11.176 | 43   | 360418   | 92.671  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 47378    | 21.855  | ug/l   | 94       |
| 62) Toluene                   | 10.606 | 91   | 281160   | 20.473  | ug/l   | 98       |
| 64) Chlorobenzene             | 11.871 | 112  | 171933   | 20.374  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 63573    | 21.427  | ug/l   | 95       |
| 66) Ethyl Benzene             | 11.941 | 91   | 302575   | 19.767  | ug/l   | 99       |
| 67) m/p-Xylenes               | 12.047 | 106  | 221209   | 39.370  | ug/l   | 99       |
| 68) o-Xylene                  | 12.376 | 106  | 106491   | 19.265  | ug/l   | 97       |
| 69) Styrene                   | 12.388 | 104  | 182406   | 19.326  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.676 | 105  | 284473   | 20.257  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 102118   | 21.223  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 133568   | 29.797  | ug/l   | 51       |
| 73) Bromobenzene              | 12.959 | 156  | 66461    | 20.415  | ug/l   | 95       |
| 74) n-propylbenzene           | 13.012 | 91   | 353290   | 20.144  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 210740   | 19.534  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 241598   | 20.093  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 32235    | 18.997  | ug/l   | 85       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 223950   | 20.484  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.418 | 119  | 203336   | 20.057  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 239788   | 19.957  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 304693   | 20.645  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 248332   | 20.265  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 134671   | 21.724  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 129848   | 20.660  | ug/l   | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 245310   | 20.461  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.306 | 117  | 49777    | 20.801  | ug/l   | 96       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 127712   | 21.582  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 23453    | 19.240  | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene    | 15.817 | 180  | 73596    | 20.810  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 26926    | 19.580  | ug/l   | 97       |
| 91) Naphthalene               | 15.611 | 128  | 260334   | 19.306  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.817 | 180  | 73596    | 20.810  | ug/l   | 98       |

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

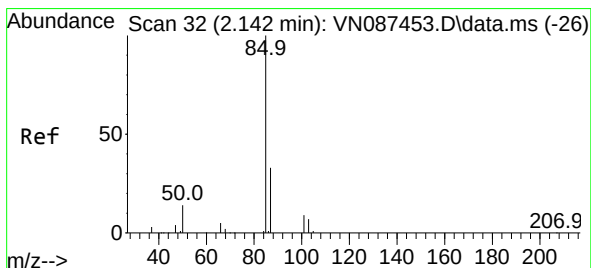
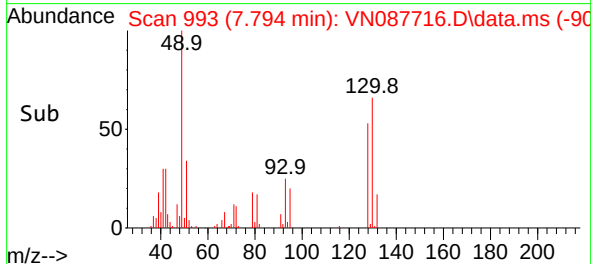
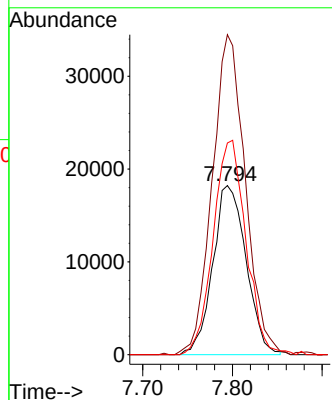
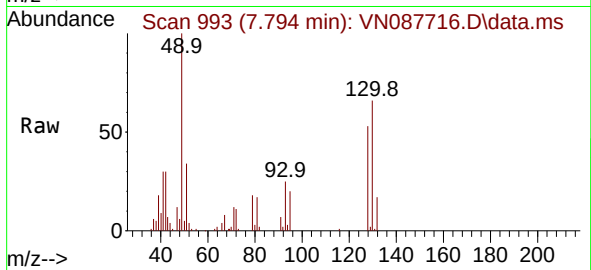




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

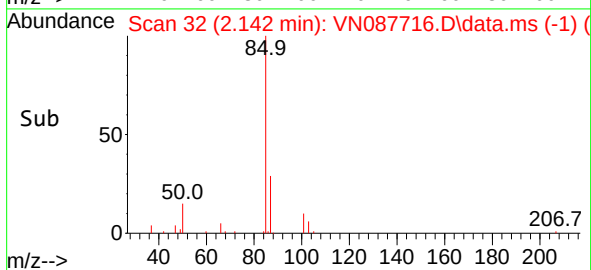
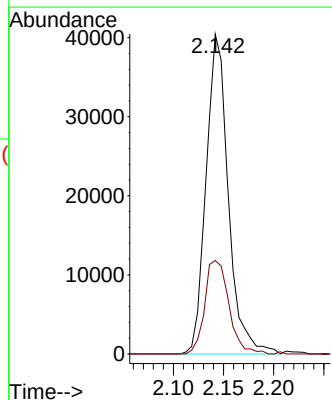
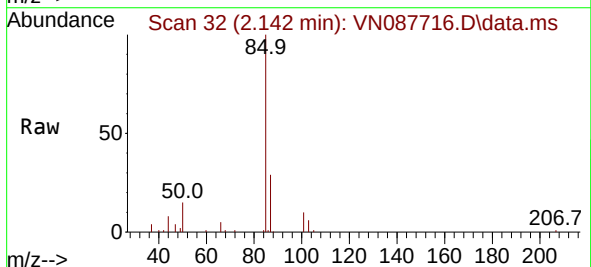
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

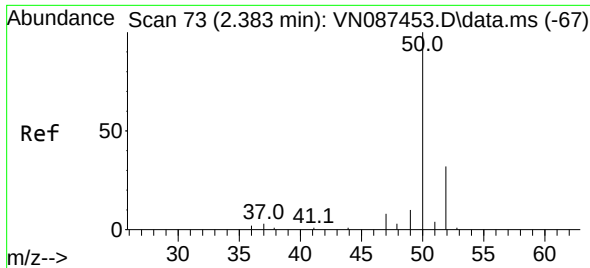
Tgt Ion:128 Resp: 46987  
Ion Ratio Lower Upper  
128 100  
49 187.4 0.0 494.8  
130 124.9 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 20.385 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 85 Resp: 62535  
Ion Ratio Lower Upper  
85 100  
87 29.2 16.4 49.2

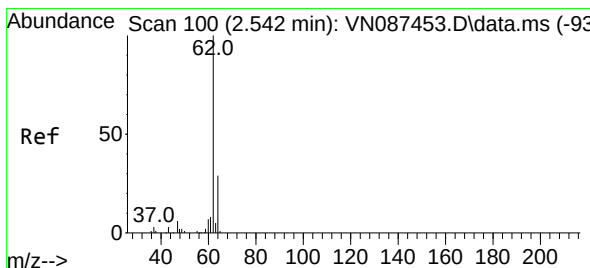
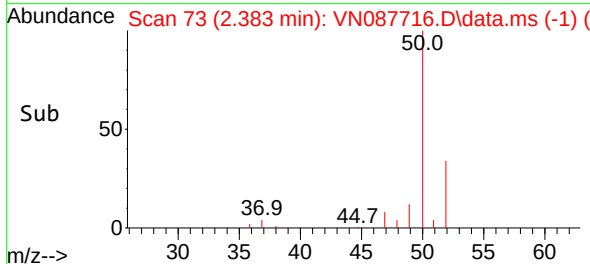
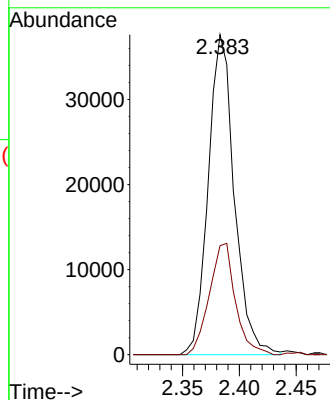
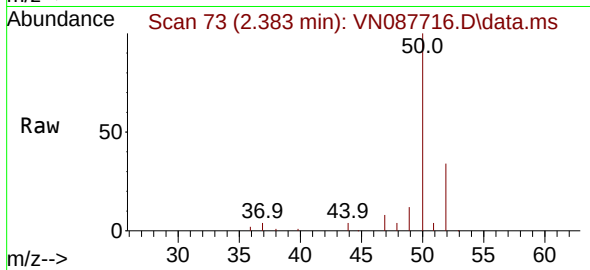




#3  
Chloromethane  
Concen: 19.082 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

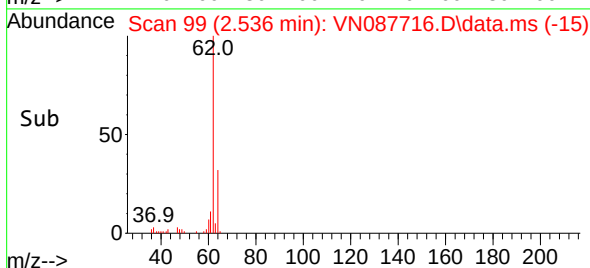
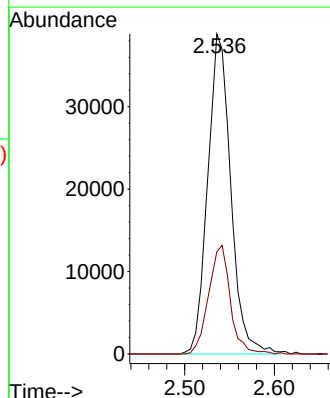
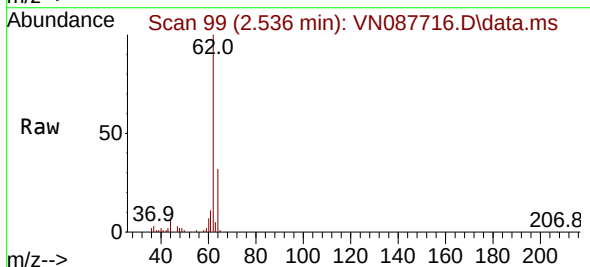
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

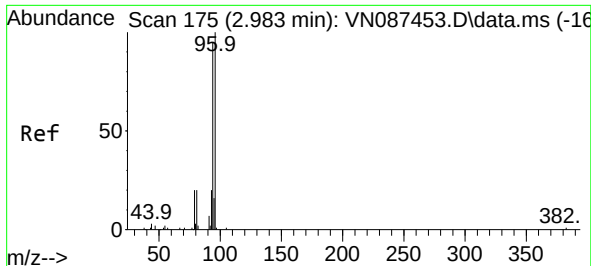
Tgt Ion: 50 Resp: 60059  
Ion Ratio Lower Upper  
50 100  
52 34.1 25.8 38.6



#4  
Vinyl Chloride  
Concen: 20.778 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 62 Resp: 69363  
Ion Ratio Lower Upper  
62 100  
64 32.0 23.4 35.2

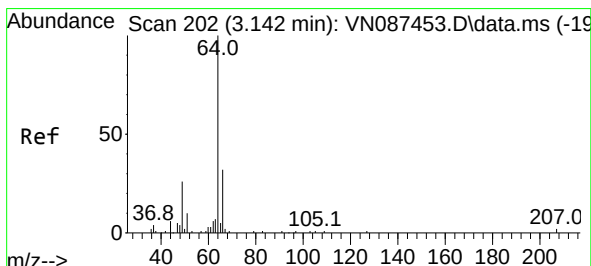
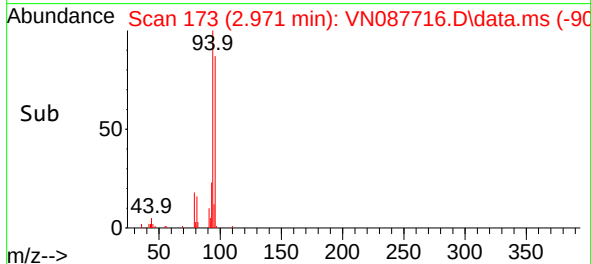
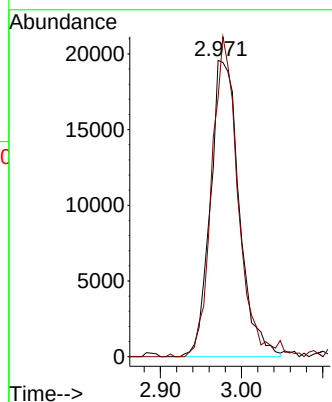
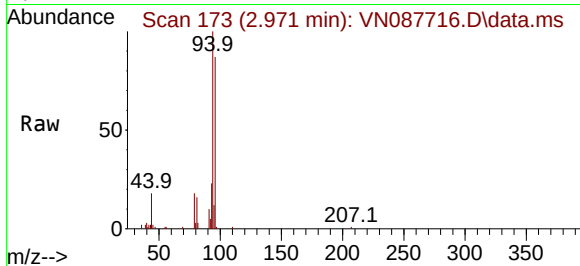




#5  
Bromomethane  
Concen: 26.694 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

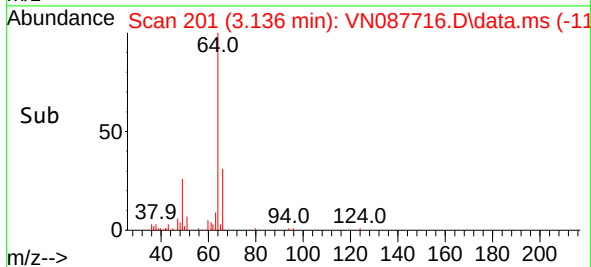
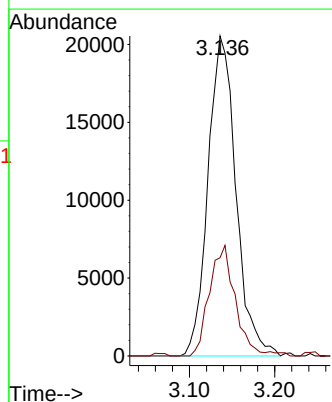
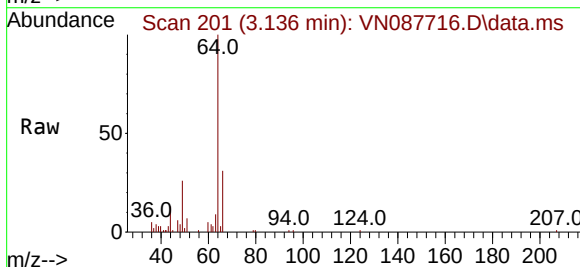
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

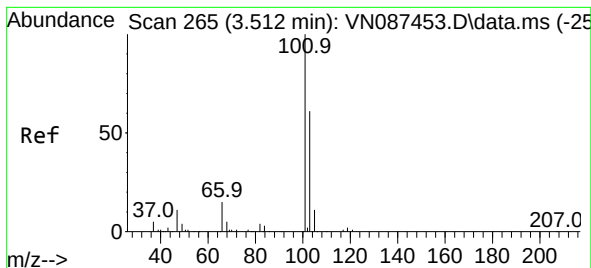
Tgt Ion: 94 Resp: 48234  
Ion Ratio Lower Upper  
94 100  
96 87.4 84.2 126.4



#6  
Chloroethane  
Concen: 21.733 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 64 Resp: 46784  
Ion Ratio Lower Upper  
64 100  
66 30.7 25.4 38.0

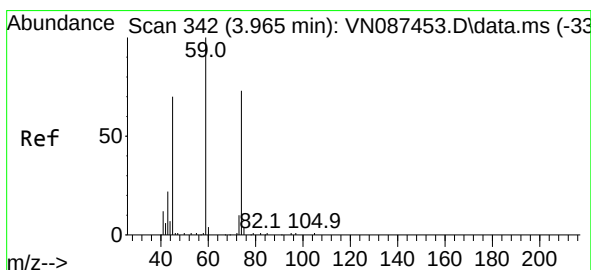
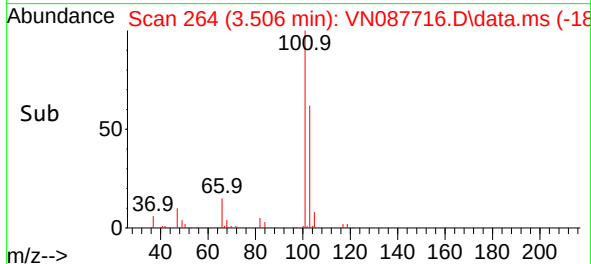
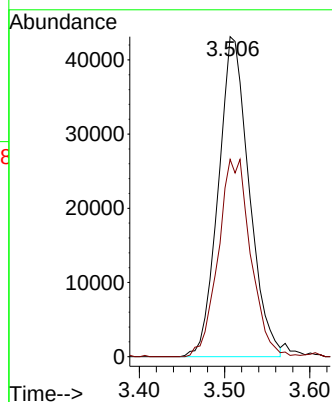
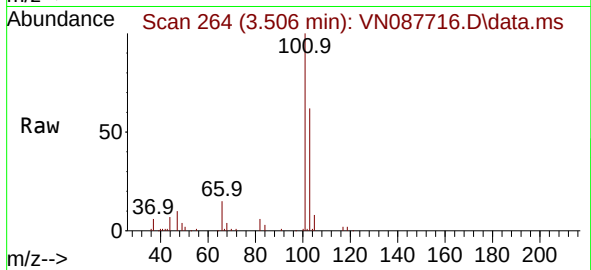




#7  
 Trichlorofluoromethane  
 Concen: 22.544 ug/l  
 RT: 3.506 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

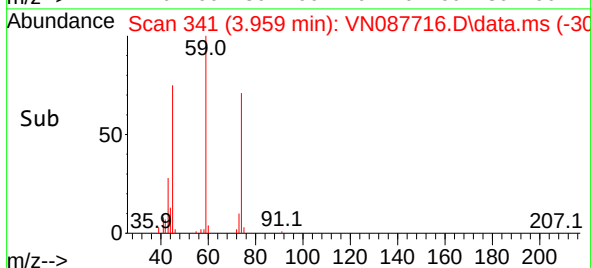
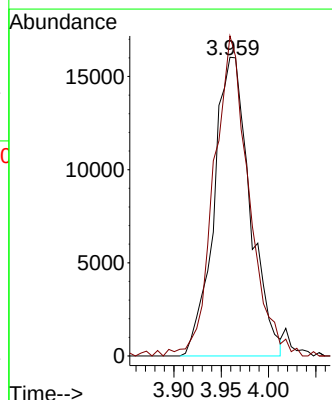
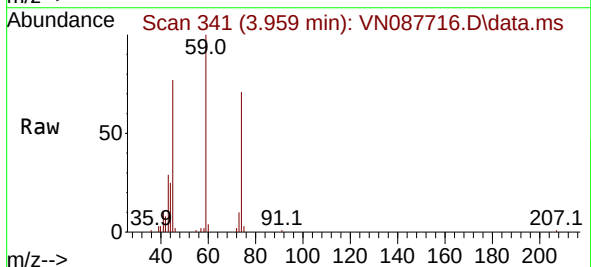
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Tgt Ion:101 Resp: 108310  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 49.2 73.8

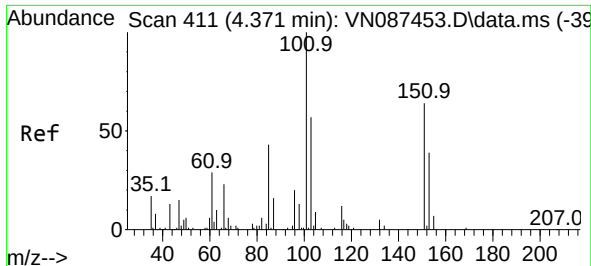


#8  
 Diethyl Ether  
 Concen: 21.237 ug/l  
 RT: 3.959 min Scan# 341  
 Delta R.T. -0.006 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

Tgt Ion: 74 Resp: 42508  
 Ion Ratio Lower Upper  
 74 100  
 45 103.4 20.1 180.9



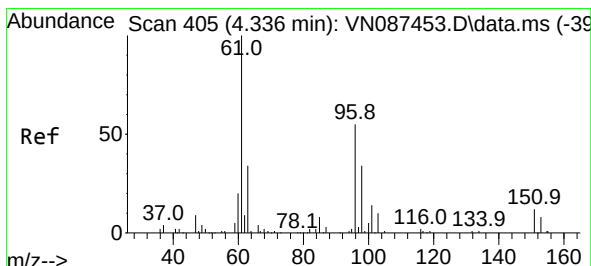
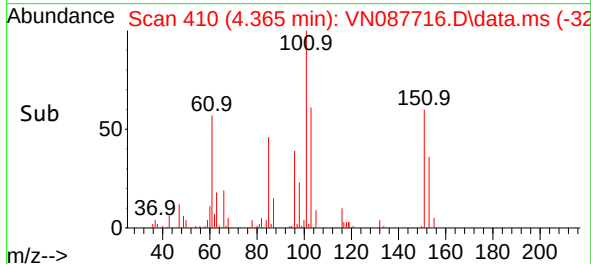
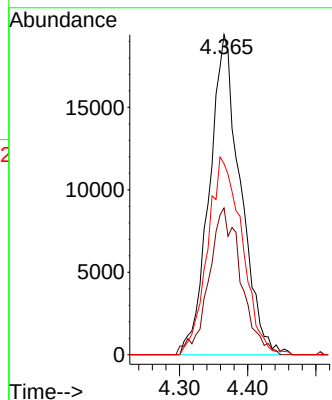
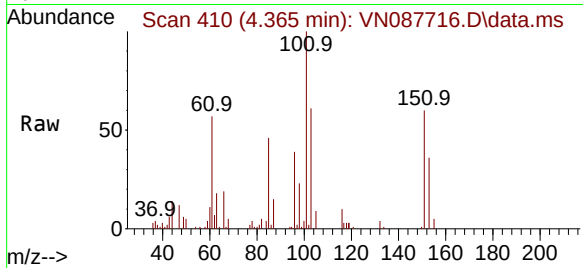




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 25.108 ug/l  
RT: 4.365 min Scan# 411  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

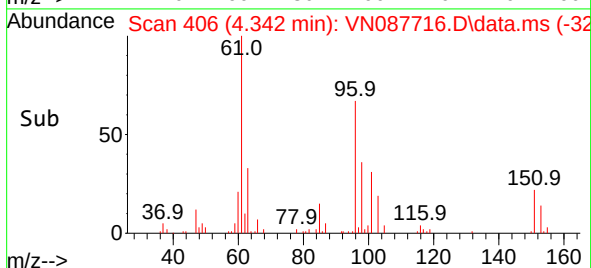
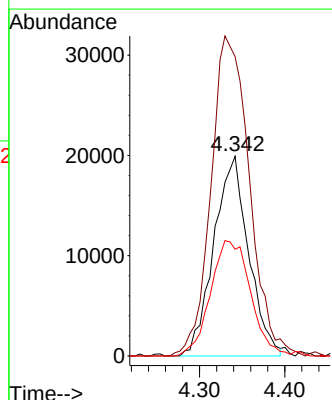
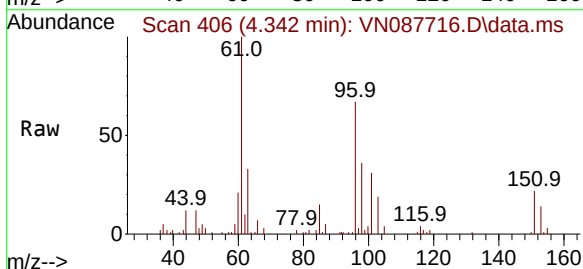
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

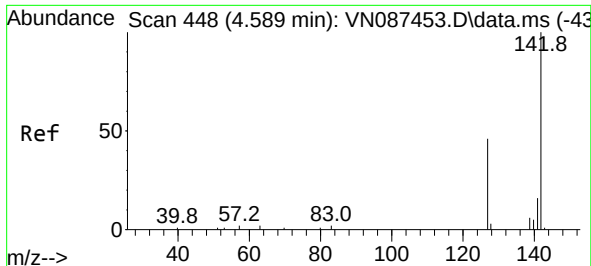
Tgt Ion:101 Resp: 61513  
Ion Ratio Lower Upper  
101 100  
85 29.2 0.0 57.0  
151 68.4 0.0 134.2



#10  
1,1-Dichloroethene  
Concen: 21.951 ug/l  
RT: 4.342 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 96 Resp: 56490  
Ion Ratio Lower Upper  
96 100  
61 147.4 144.2 216.4  
98 52.7 49.7 74.5

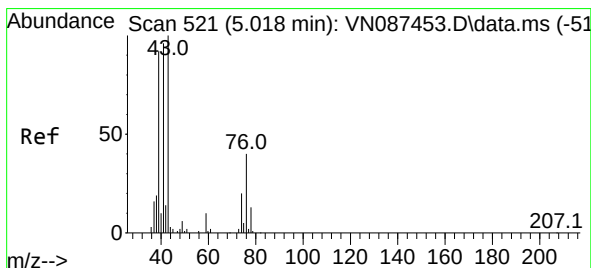
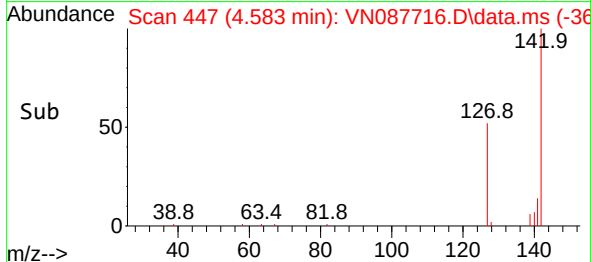
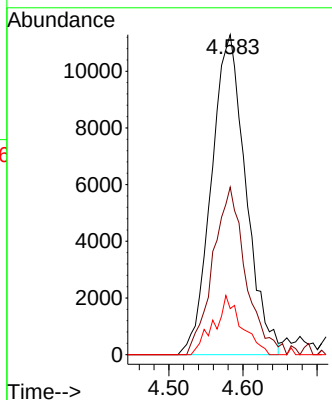
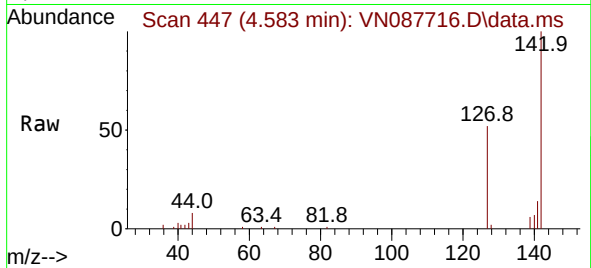




#11  
Methyl Iodide  
Concen: 17.964 ug/l  
RT: 4.583 min Scan# 448  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

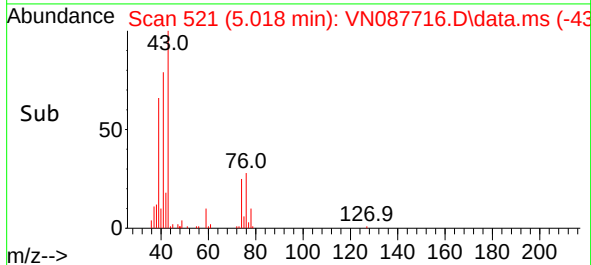
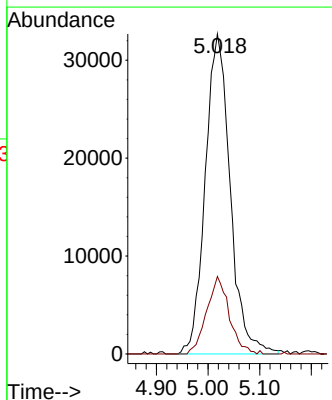
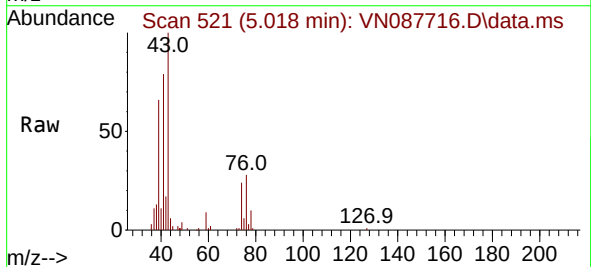
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

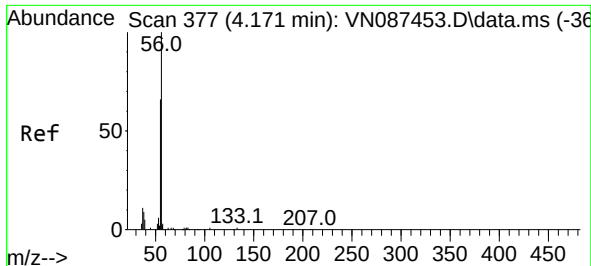
Tgt Ion:142 Resp: 36400  
Ion Ratio Lower Upper  
142 100  
127 52.1 22.9 68.7  
141 14.7 7.7 23.1



#12  
Methyl Acetate  
Concen: 23.051 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 109468  
Ion Ratio Lower Upper  
43 100  
74 24.3 16.0 24.0#

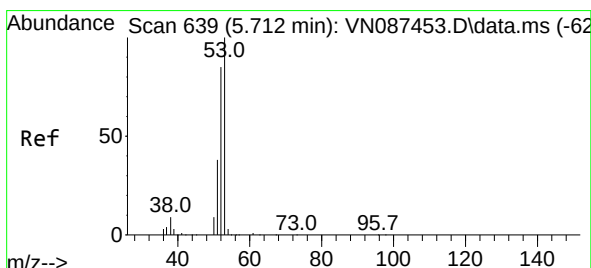
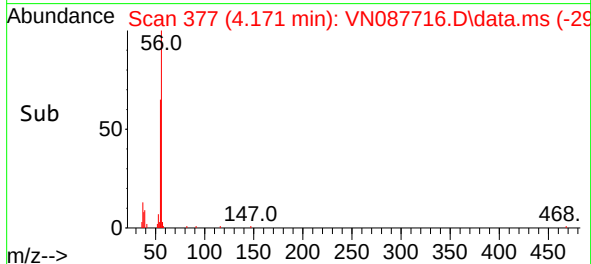
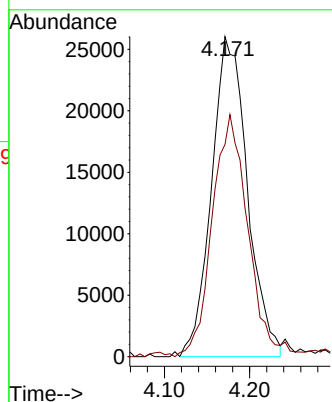
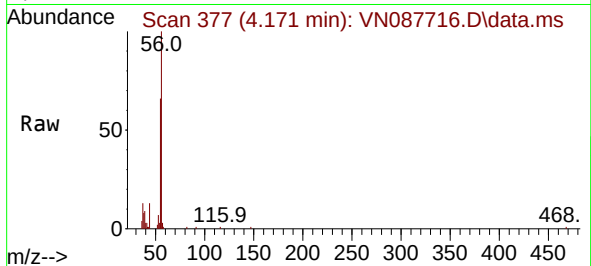




#13  
Acrolein  
Concen: 104.794 ug/l  
RT: 4.171 min Scan# 377  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

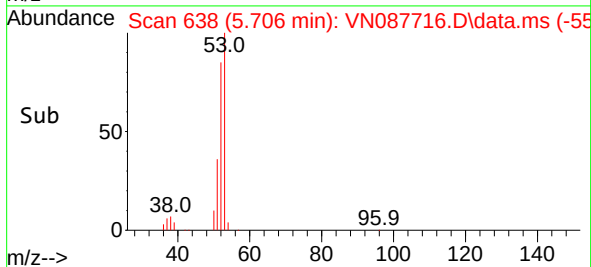
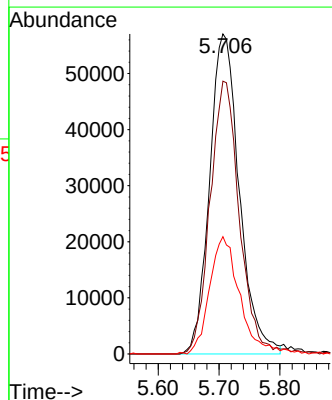
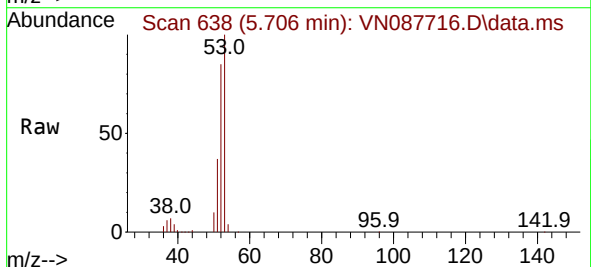
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

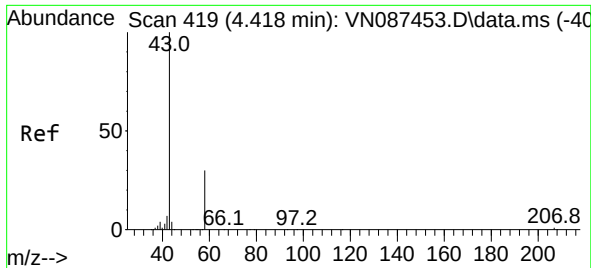
Tgt Ion: 56 Resp: 76010  
Ion Ratio Lower Upper  
56 100  
55 74.1 57.4 86.0



#14  
Acrylonitrile  
Concen: 93.426 ug/l  
RT: 5.706 min Scan# 638  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 53 Resp: 193739  
Ion Ratio Lower Upper  
53 100  
52 82.8 42.4 127.2  
51 35.8 18.5 55.5

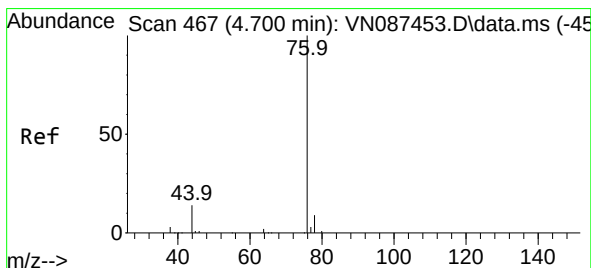
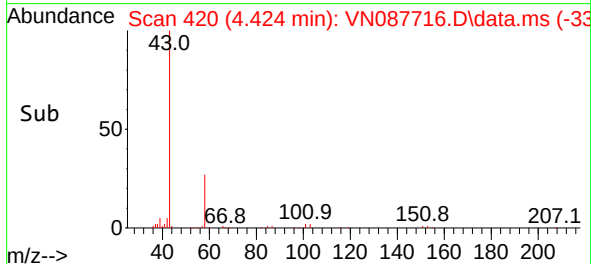
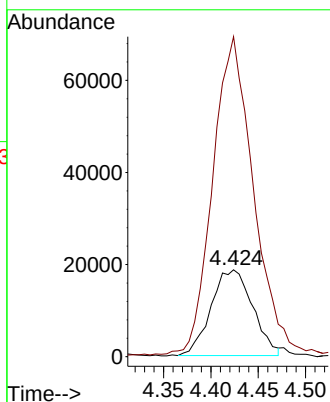
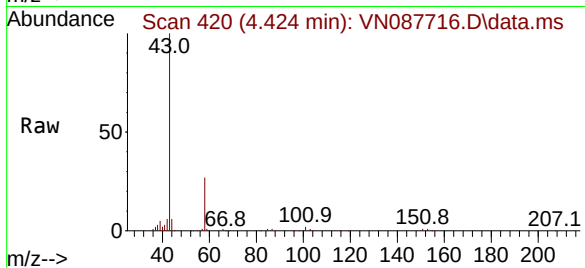




#15  
Acetone  
Concen: 96.319 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

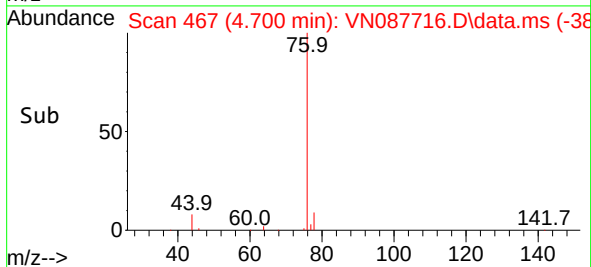
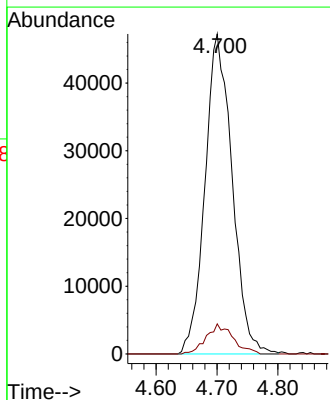
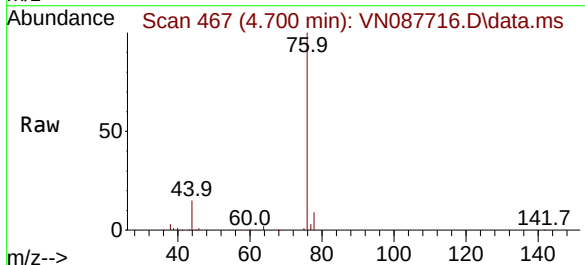
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

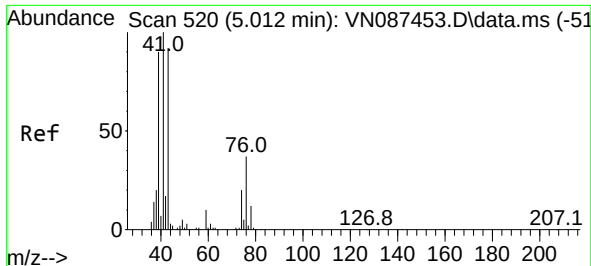
Tgt Ion: 58 Resp: 57070  
Ion Ratio Lower Upper  
58 100  
43 366.4 268.9 403.3



#16  
Carbon Disulfide  
Concen: 18.335 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 146362  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.1 10.7

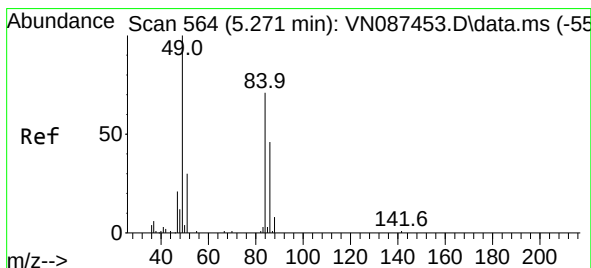
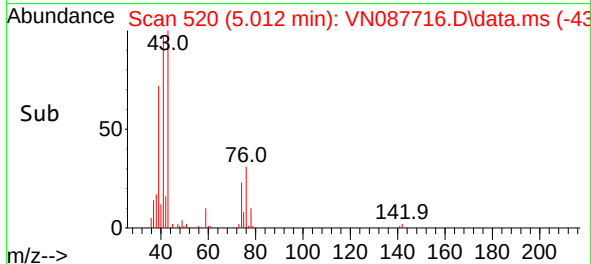
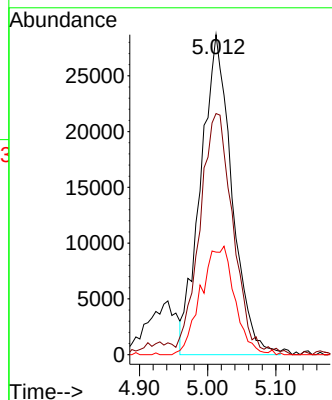
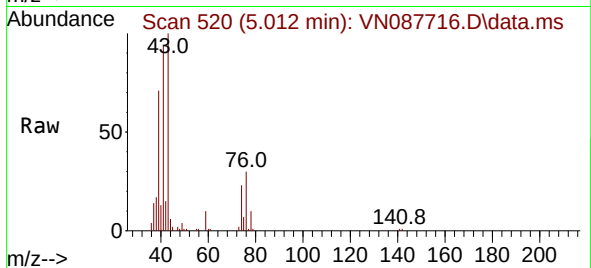




#17  
 Allyl chloride  
 Concen: 17.408 ug/l  
 RT: 5.012 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

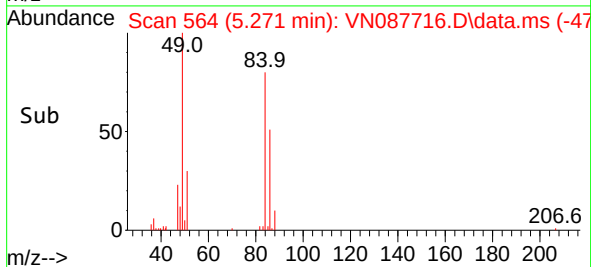
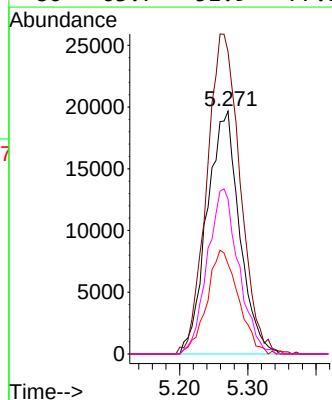
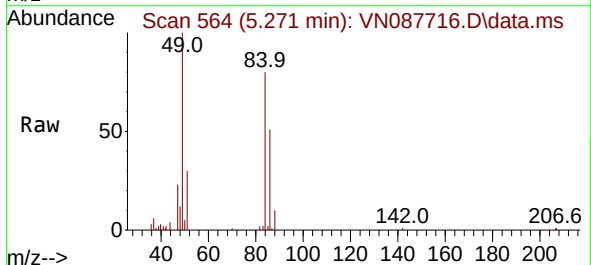
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

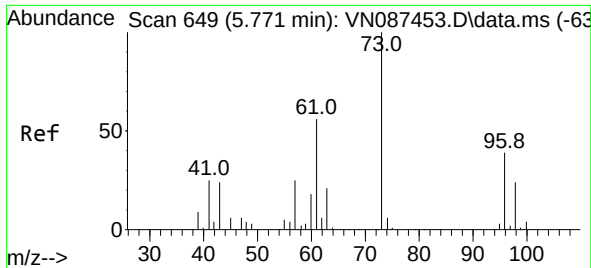
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 91309 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 75.1  | 42.4  | 127.2 |
| 76       | 31.8  | 16.9  | 50.6  |



#18  
 Methylene Chloride  
 Concen: 19.695 ug/l  
 RT: 5.271 min Scan# 564  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 65247 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 123.6 | 112.9 | 169.3 |
| 51       | 37.0  | 33.8  | 50.8  |
| 86       | 63.7  | 51.9  | 77.9  |

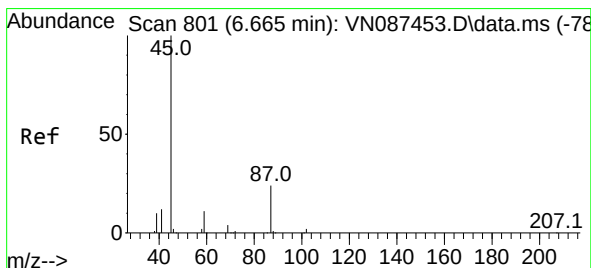
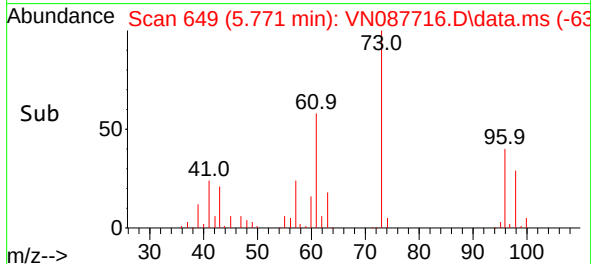
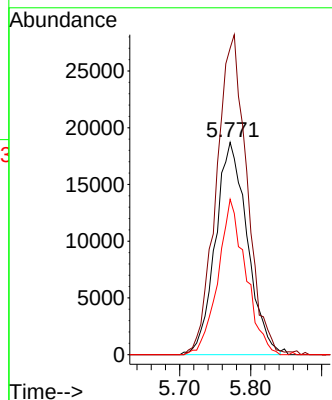
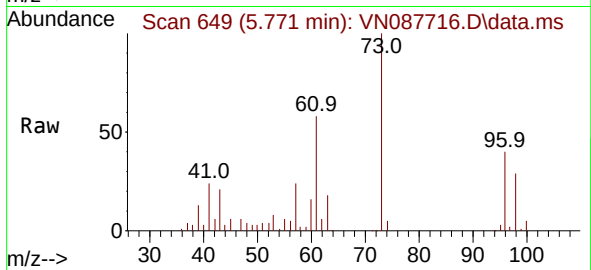




#19  
trans-1,2-Dichloroethene  
Concen: 19.036 ug/l  
RT: 5.771 min Scan# 649  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

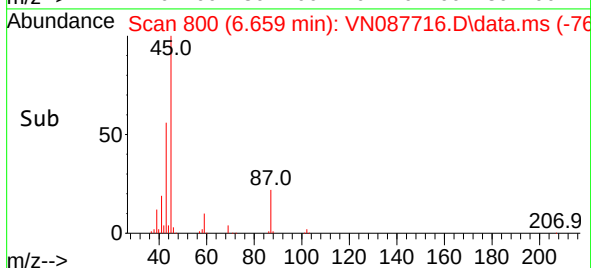
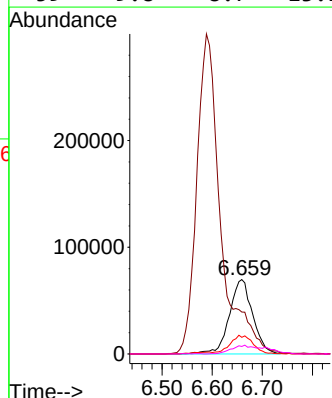
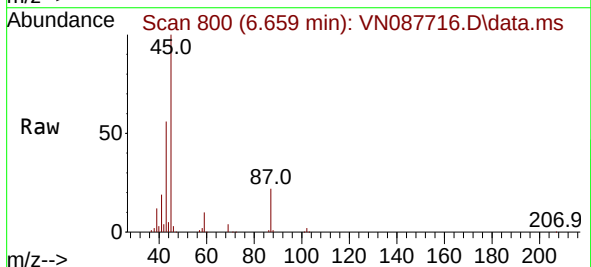
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

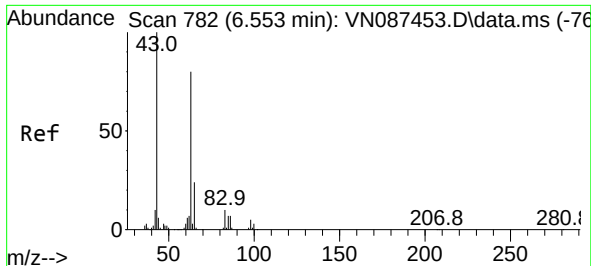
Tgt Ion: 96 Resp: 58256  
Ion Ratio Lower Upper  
96 100  
61 144.3 114.2 171.4  
98 73.2 48.7 73.1#



#20  
Diisopropyl ether  
Concen: 18.829 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 45 Resp: 224989  
Ion Ratio Lower Upper  
45 100  
43 54.6 44.7 67.1  
87 22.0 20.2 30.2  
59 9.8 8.7 13.1

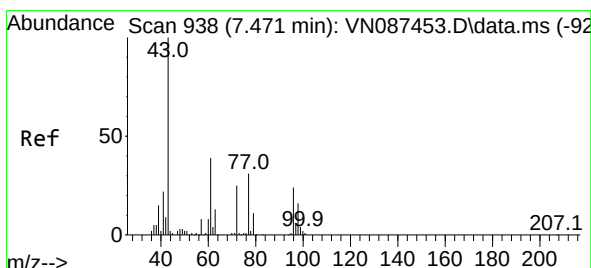
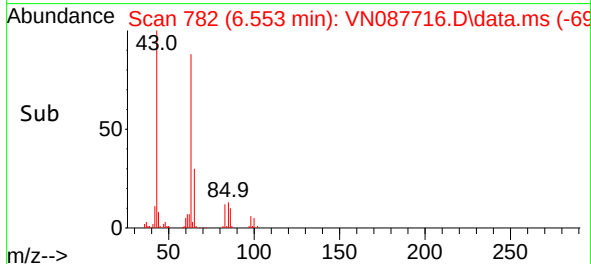
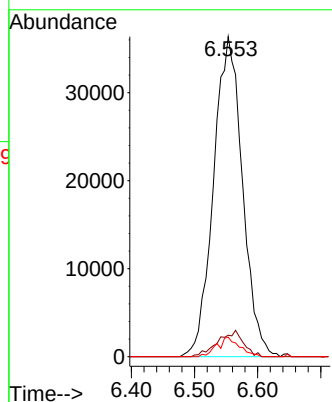
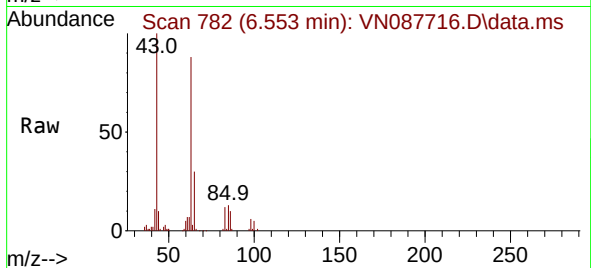




#21  
1,1-Dichloroethane  
Concen: 18.729 ug/l  
RT: 6.553 min Scan# 782  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

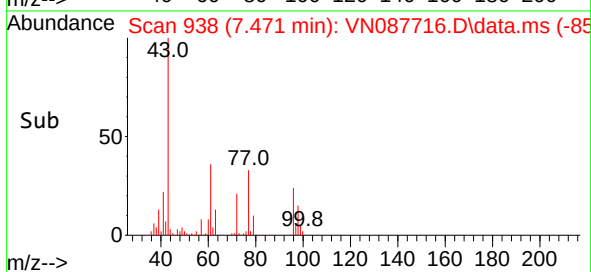
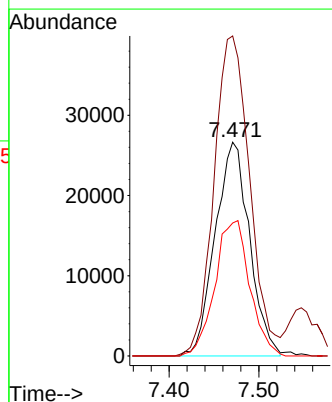
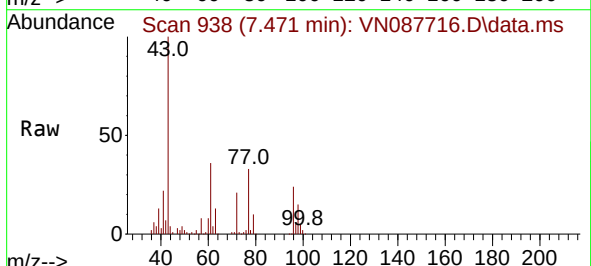
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

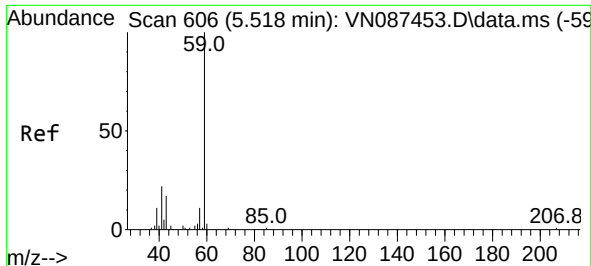
Tgt Ion: 63 Resp: 115682  
Ion Ratio Lower Upper  
63 100  
98 6.7 3.0 9.0  
100 6.1 1.9 5.7#



#22  
cis-1,2-Dichloroethene  
Concen: 18.812 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 96 Resp: 70834  
Ion Ratio Lower Upper  
96 100  
61 155.5 126.6 190.0  
98 64.1 50.9 76.3

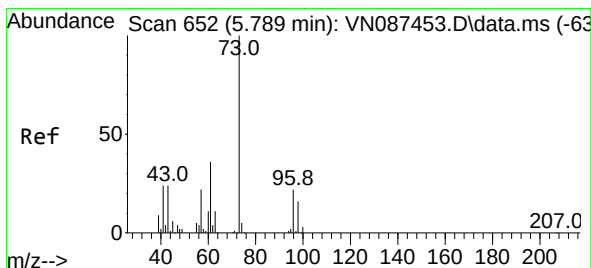
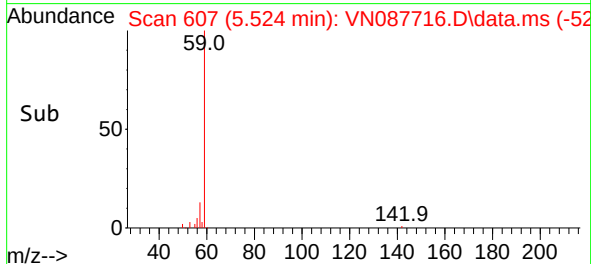
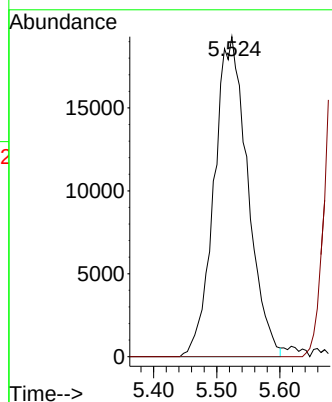
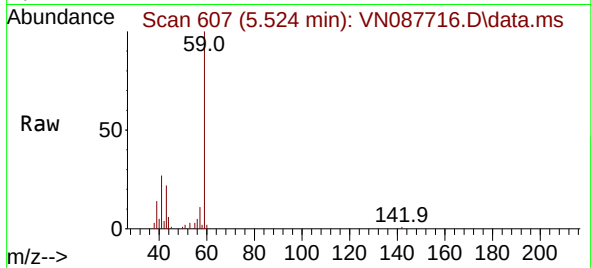




#23  
tert-Butyl Alcohol  
Concen: 80.841 ug/l  
RT: 5.524 min Scan# 606  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

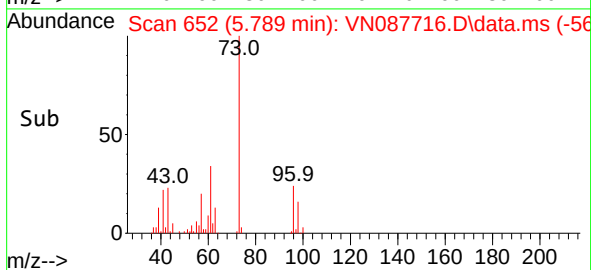
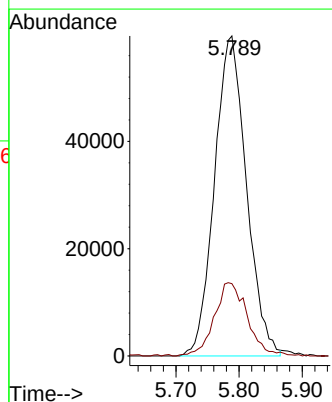
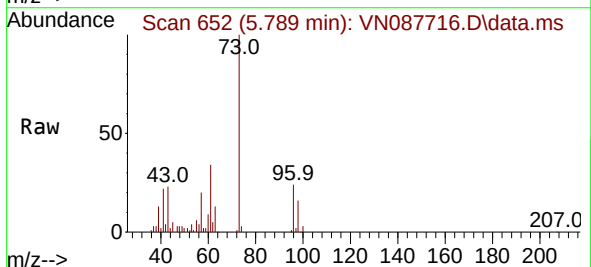
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 59 Resp: 71235  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

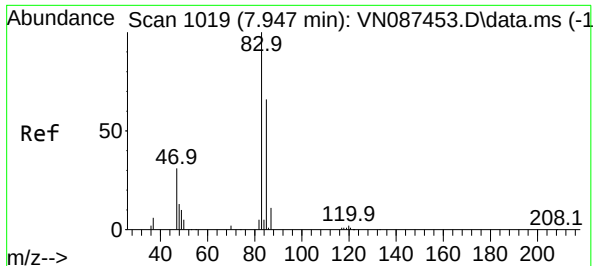


#24  
Methyl tert-Butyl Ether  
Concen: 17.887 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 73 Resp: 209746  
Ion Ratio Lower Upper  
73 100  
43 23.3 19.9 29.9







#25

Chloroform

Concen: 19.605 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

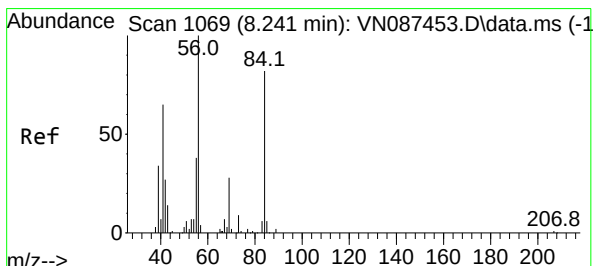
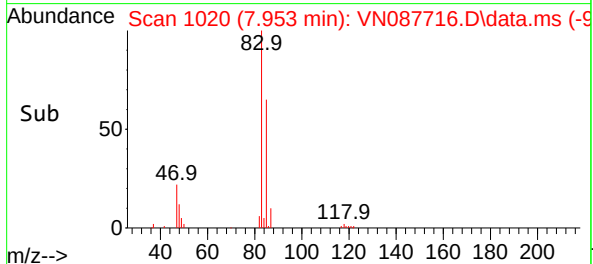
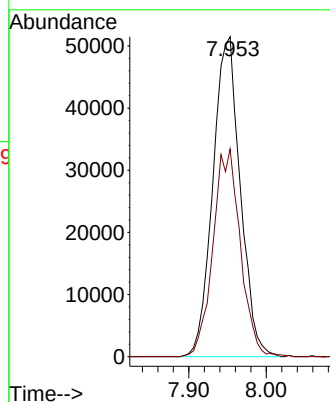
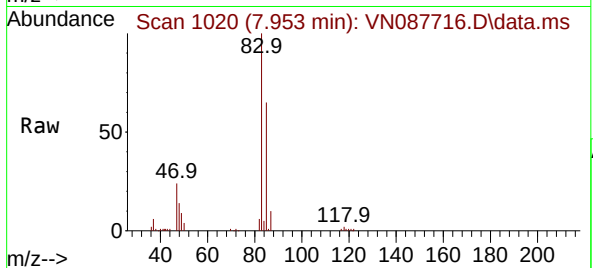
VN0904WBSD01

Tgt Ion: 83 Resp: 126402

Ion Ratio Lower Upper

83 100

85 64.9 52.6 78.8



#26

Cyclohexane

Concen: 18.156 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

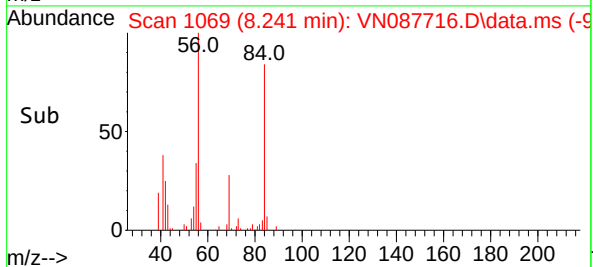
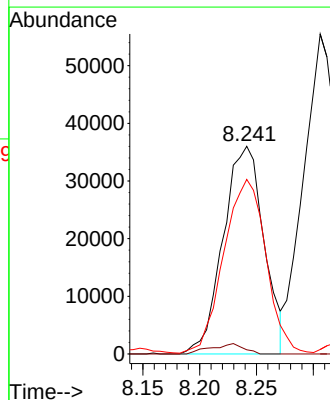
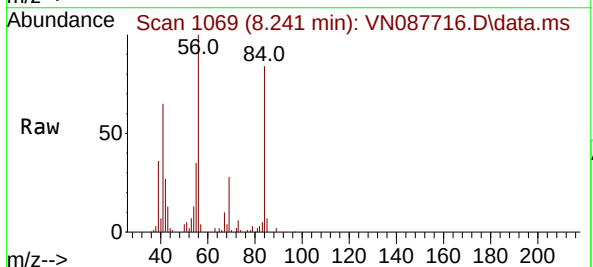
Tgt Ion: 56 Resp: 89790

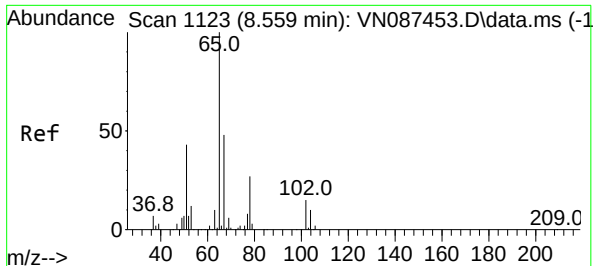
Ion Ratio Lower Upper

56 100

89 4.0 2.3 3.5#

84 87.4 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.798 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

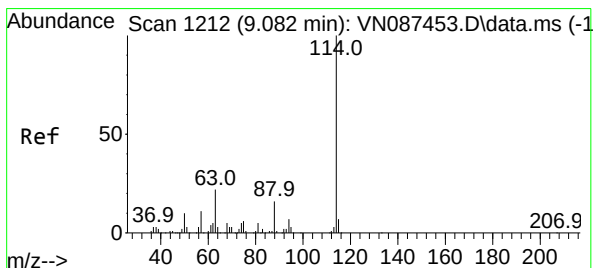
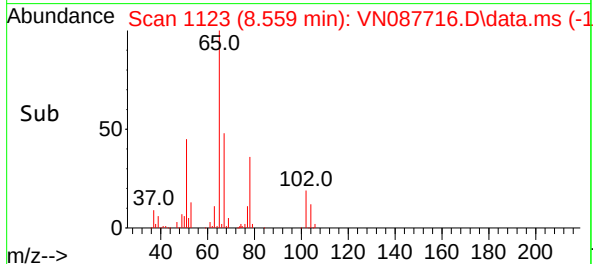
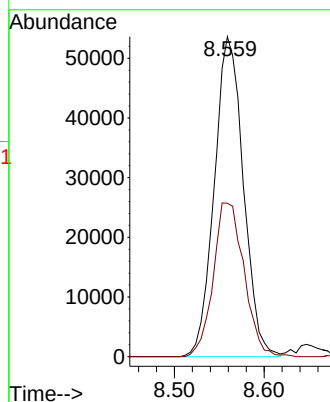
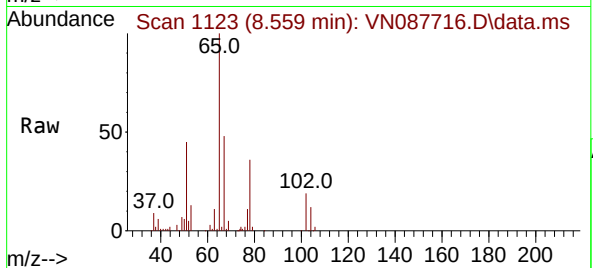
VN0904WBSD01

Tgt Ion: 65 Resp: 120474

Ion Ratio Lower Upper

65 100

67 50.8 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

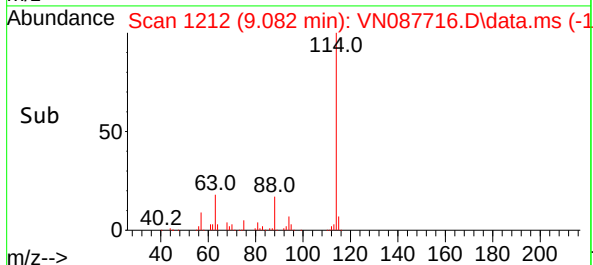
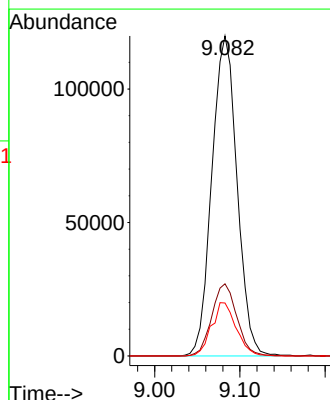
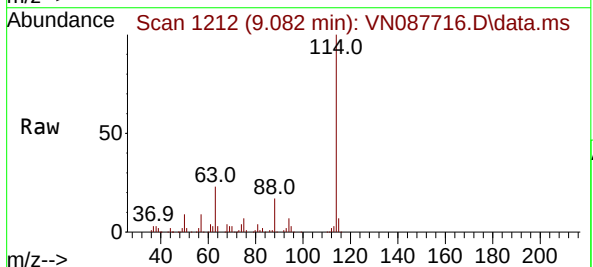
Tgt Ion: 114 Resp: 246294

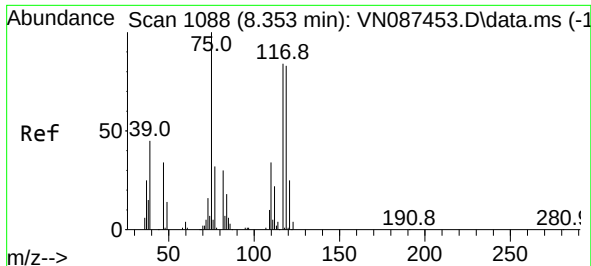
Ion Ratio Lower Upper

114 100

63 22.4 18.9 28.3

88 16.3 13.1 19.7

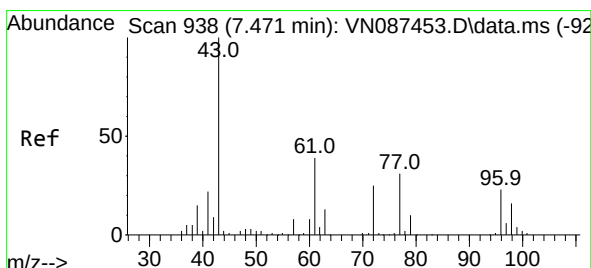
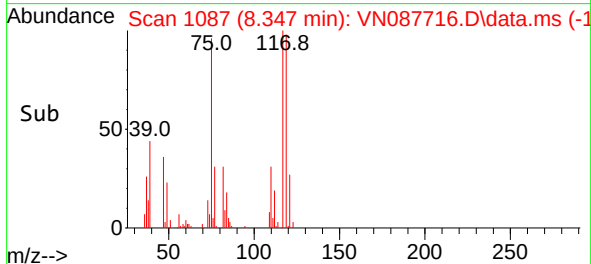
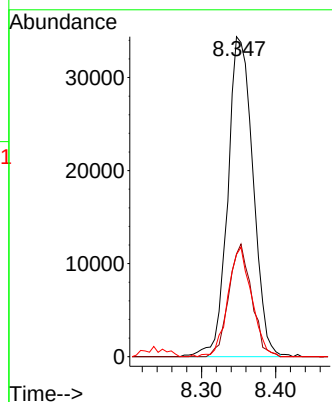
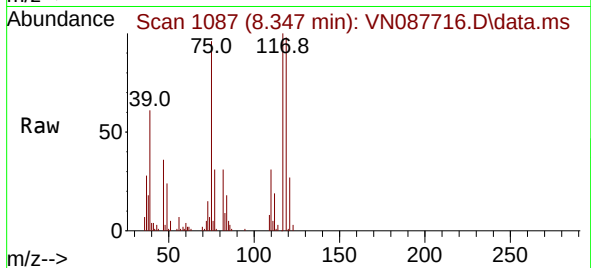




#29  
1,1-Dichloropropene  
Concen: 20.245 ug/l  
RT: 8.347 min Scan# 1087  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

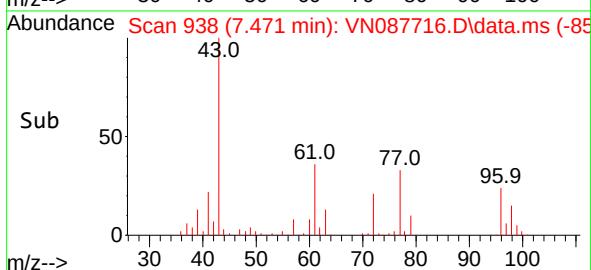
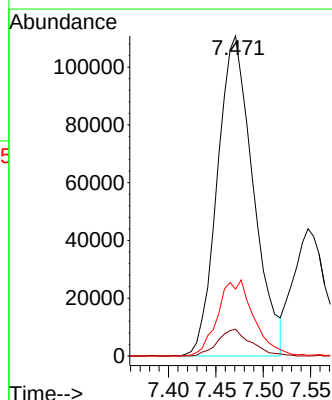
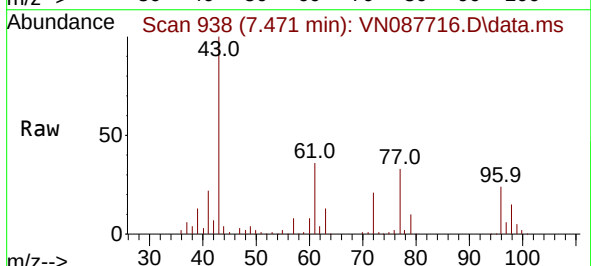
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

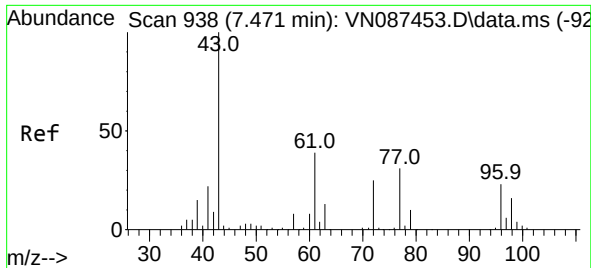
Tgt Ion: 75 Resp: 81325  
Ion Ratio Lower Upper  
75 100  
110 31.9 0.0 65.8  
77 31.8 0.0 63.6



#30  
2-Butanone  
Concen: 98.404 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 291380  
Ion Ratio Lower Upper  
43 100  
57 7.8 6.6 9.8  
72 13.0 19.7 29.5#

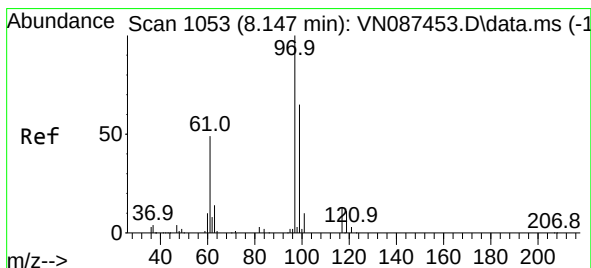
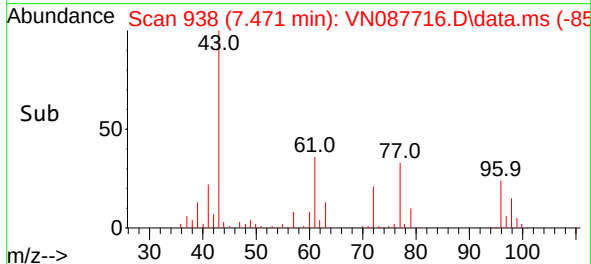
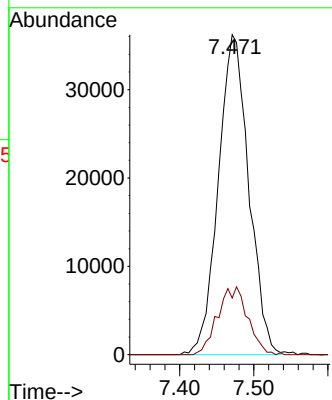
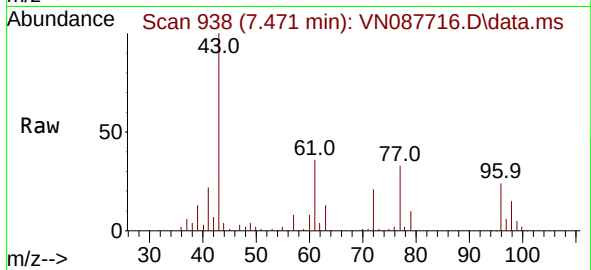




#31  
2,2-Dichloropropane  
Concen: 19.946 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

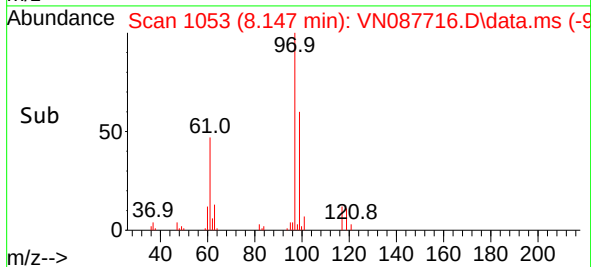
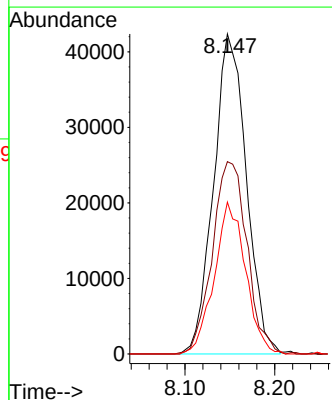
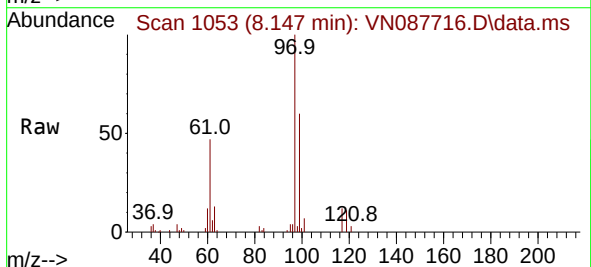
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

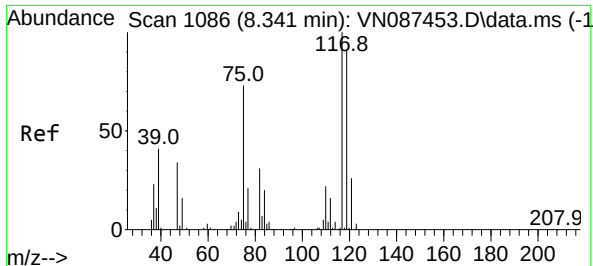
Tgt Ion: 77 Resp: 103342  
Ion Ratio Lower Upper  
77 100  
97 11.3 16.7 25.1#



#32  
1,1,1-Trichloroethane  
Concen: 20.969 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 97 Resp: 107431  
Ion Ratio Lower Upper  
97 100  
99 63.5 53.0 79.6  
61 45.2 40.6 61.0

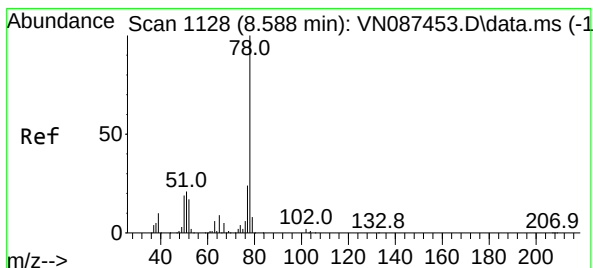
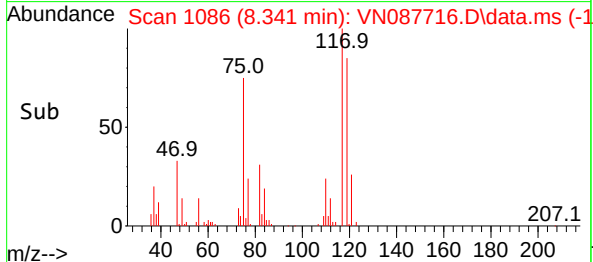
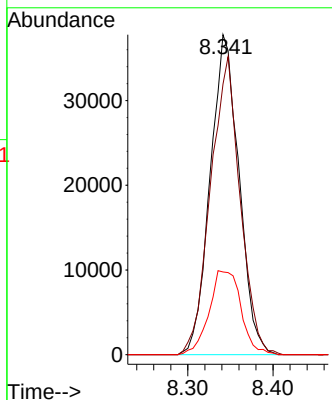
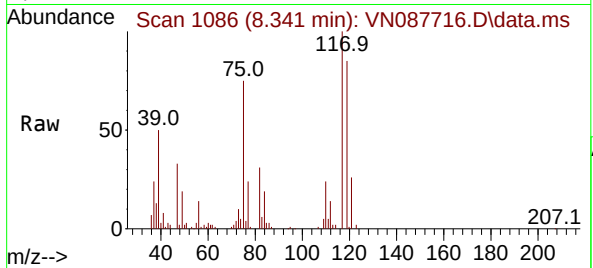




#33  
Carbon Tetrachloride  
Concen: 20.870 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

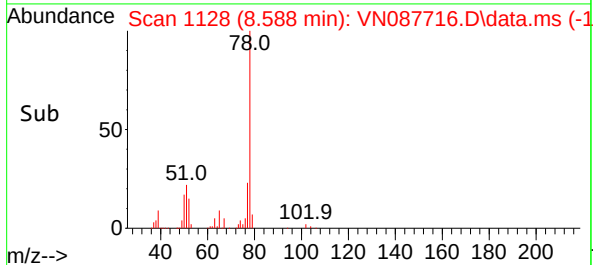
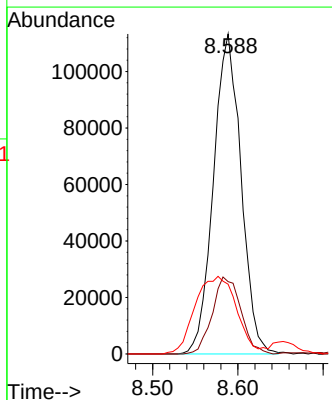
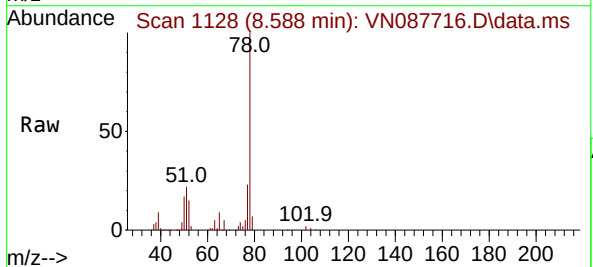
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

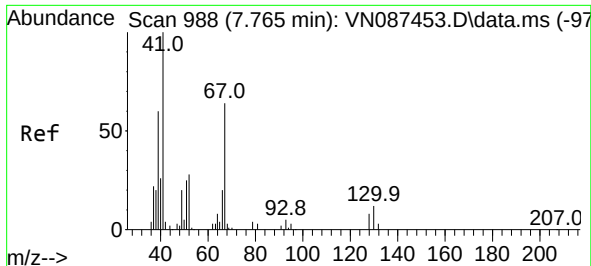
Tgt Ion:117 Resp: 88828  
Ion Ratio Lower Upper  
117 100  
119 84.5 73.4 110.0  
121 25.8 21.1 31.7



#34  
Benzene  
Concen: 20.073 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 78 Resp: 254532  
Ion Ratio Lower Upper  
78 100  
77 22.6 19.2 28.8  
51 20.0 16.9 25.3

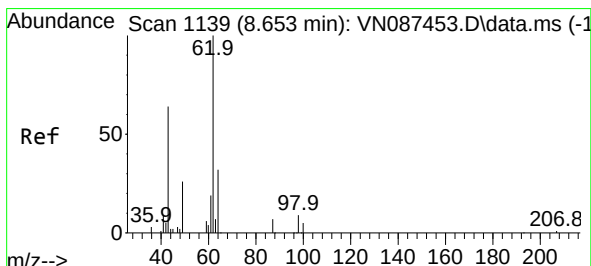
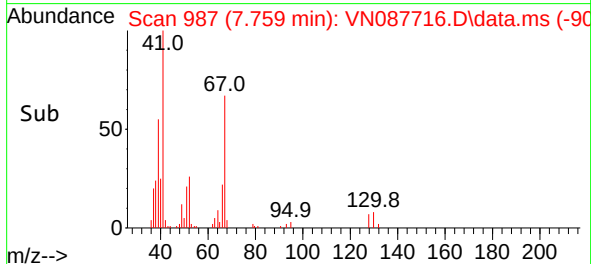
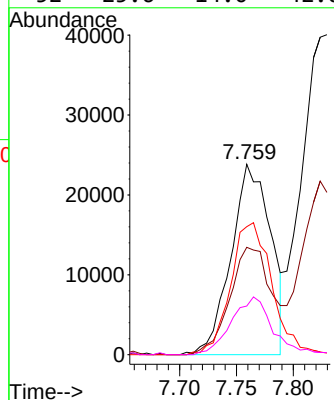
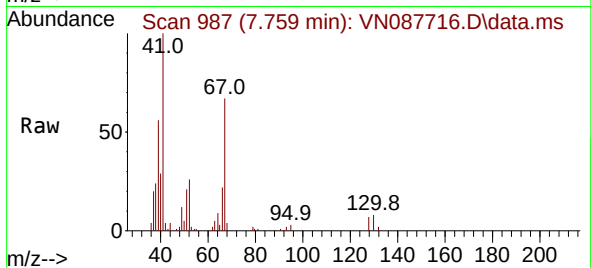




#35  
Methacrylonitrile  
Concen: 18.116 ug/l  
RT: 7.759 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

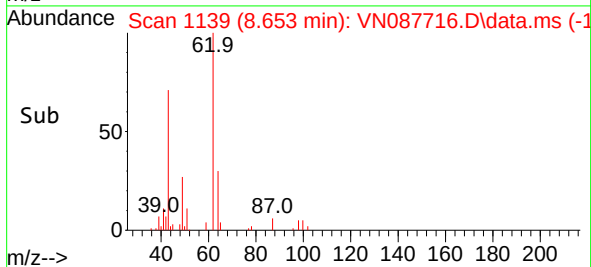
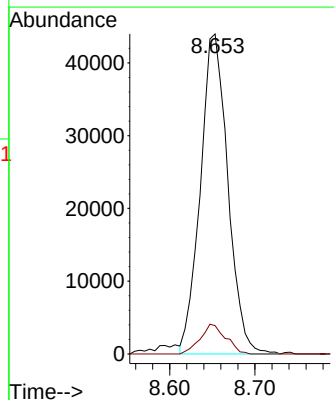
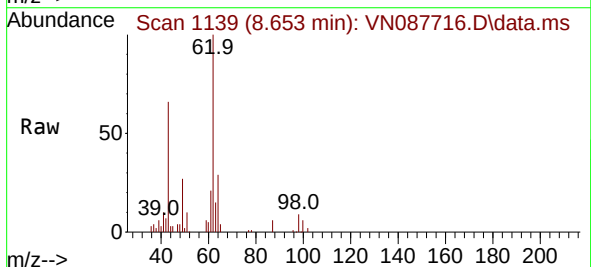
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

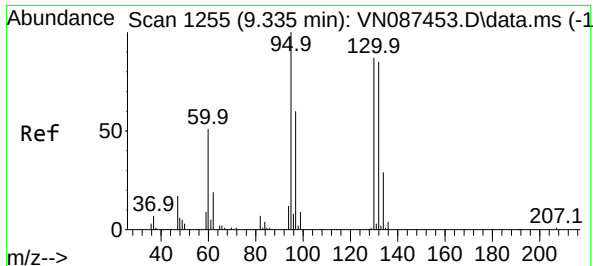
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 57887 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 56.4  | 30.1  | 90.5  |
| 67       | 67.2  | 32.0  | 96.2  |
| 52       | 25.6  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 19.247 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 98643 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.6   | 6.6   | 9.8   |





#37

Trichloroethene

Concen: 20.890 ug/l

RT: 9.330 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

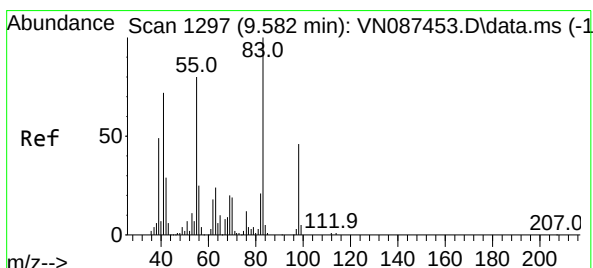
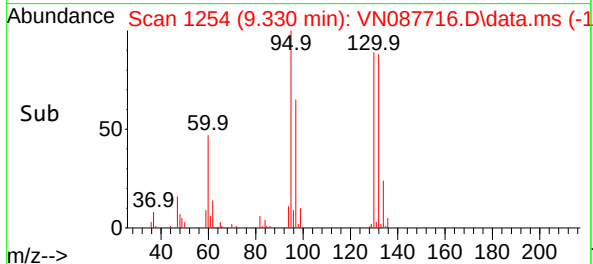
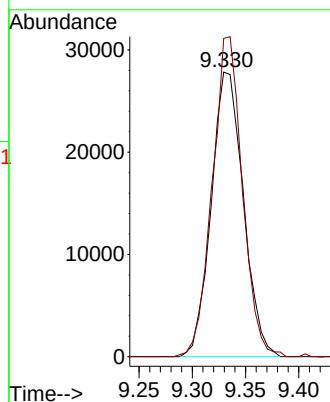
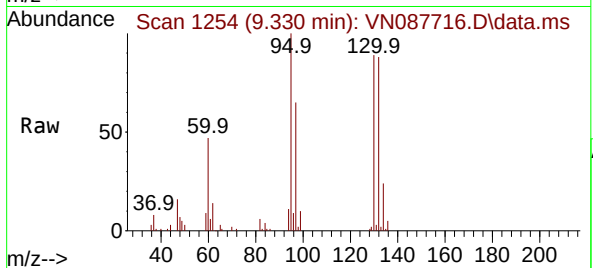
VN0904WBSD01

Tgt Ion:130 Resp: 58350

Ion Ratio Lower Upper

130 100

95 111.1 91.4 137.2



#38

Methylcyclohexane

Concen: 19.060 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

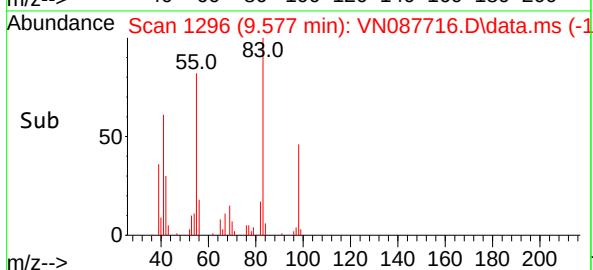
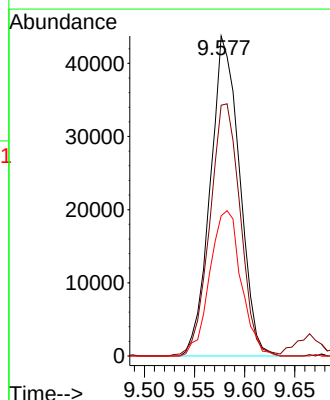
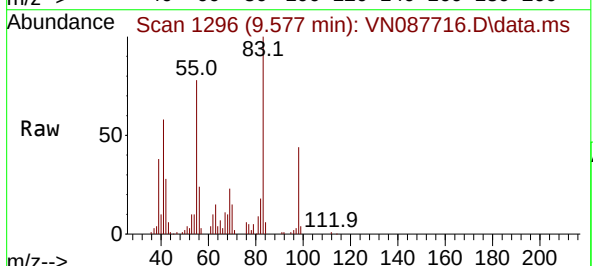
Tgt Ion: 83 Resp: 88823

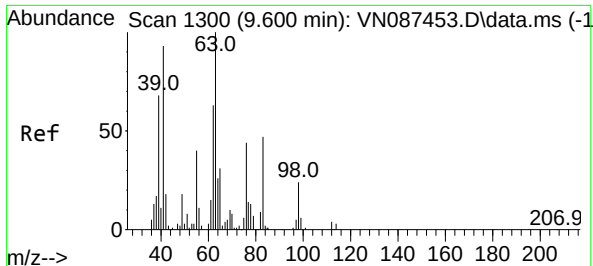
Ion Ratio Lower Upper

83 100

55 81.9 41.2 123.6

98 48.6 23.3 69.9

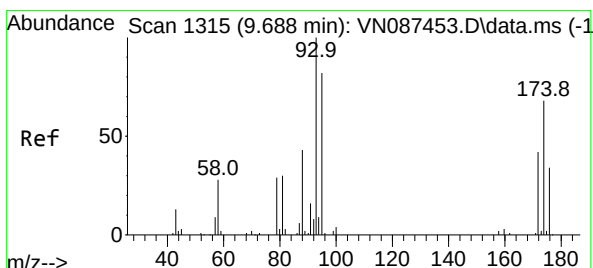
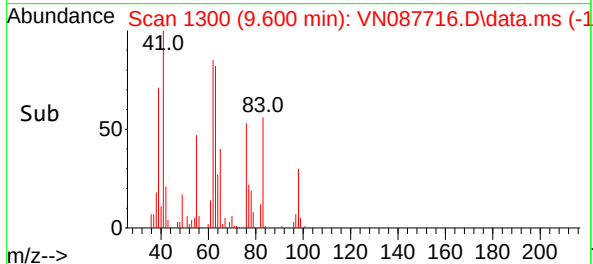
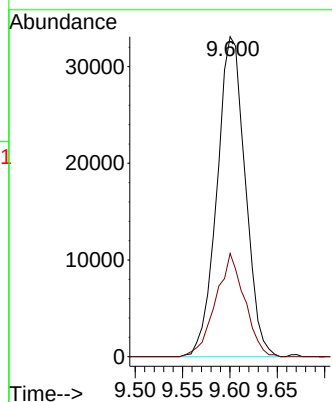
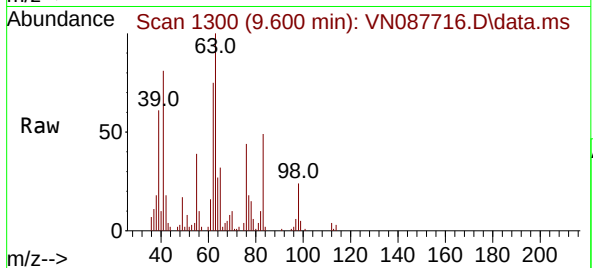




#39  
1,2-Dichloropropane  
Concen: 21.119 ug/l  
RT: 9.600 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

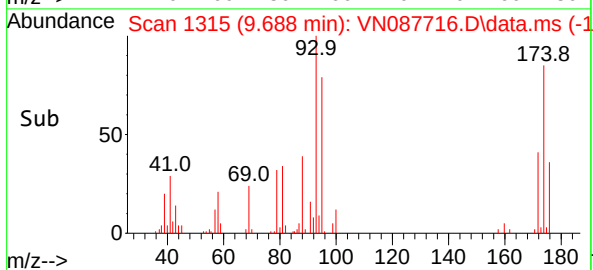
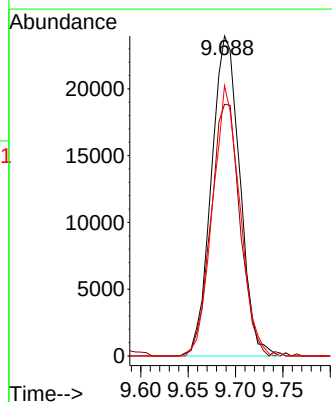
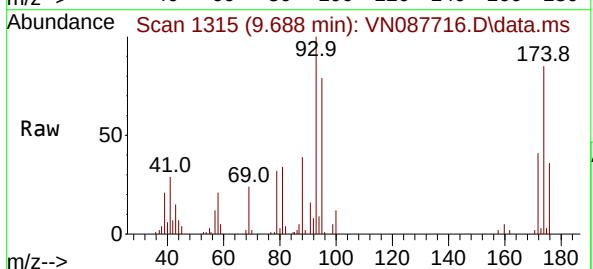
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 63 Resp: 68663  
Ion Ratio Lower Upper  
63 100  
65 32.3 24.6 36.8

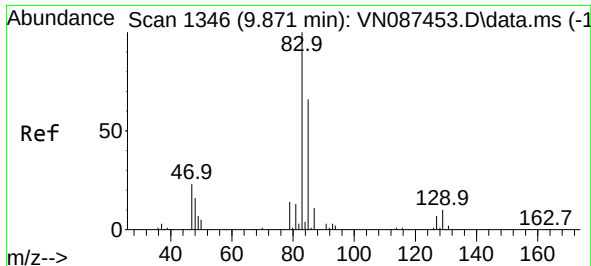


#40  
Dibromomethane  
Concen: 20.509 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 93 Resp: 50029  
Ion Ratio Lower Upper  
93 100  
95 80.5 0.0 161.6  
174 81.0 0.0 151.4



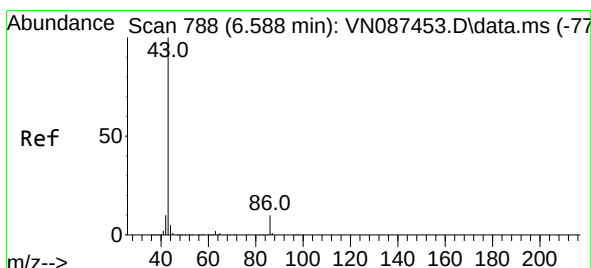
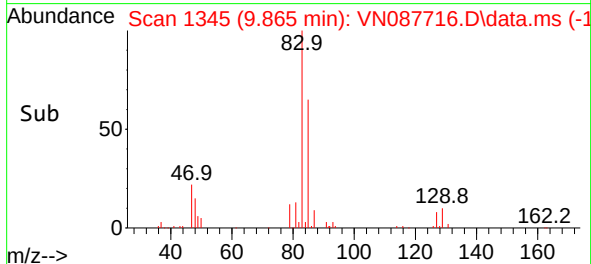
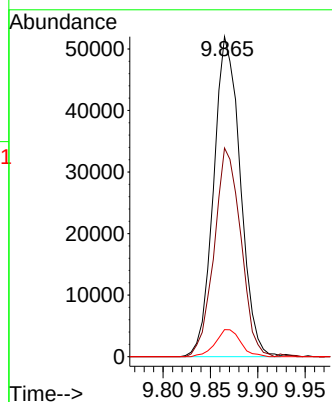
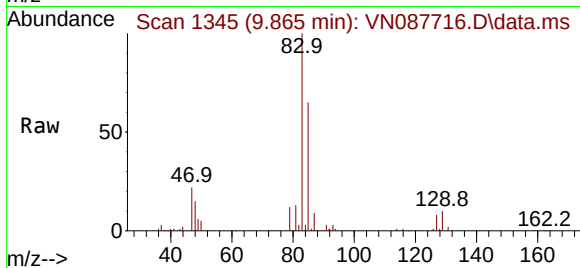




#41  
Bromodichloromethane  
Concen: 20.115 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

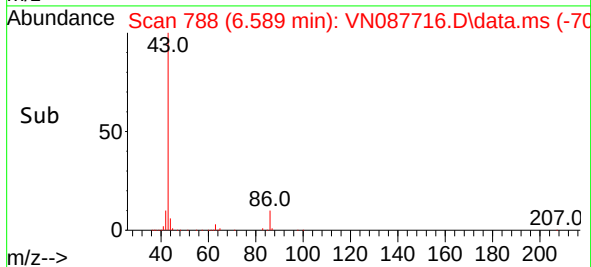
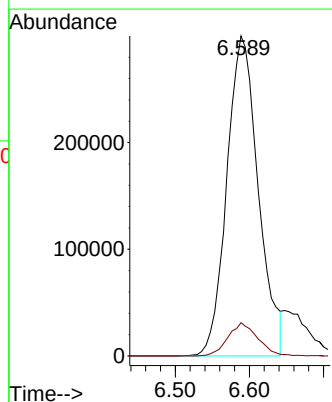
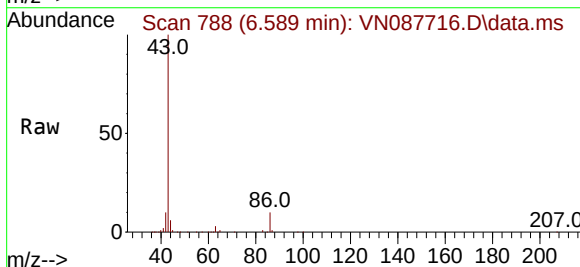
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

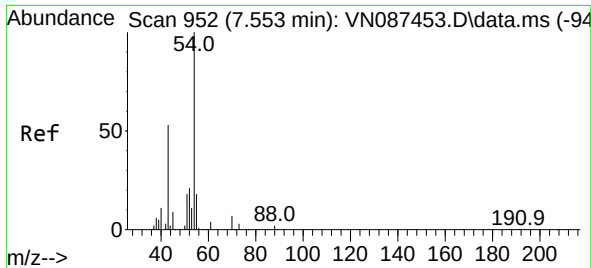
Tgt Ion: 83 Resp: 101960  
Ion Ratio Lower Upper  
83 100  
85 65.2 52.9 79.3  
127 8.4 5.8 8.6



#42  
Vinyl Acetate  
Concen: 90.770 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 885124  
Ion Ratio Lower Upper  
43 100  
86 9.9 7.3 10.9

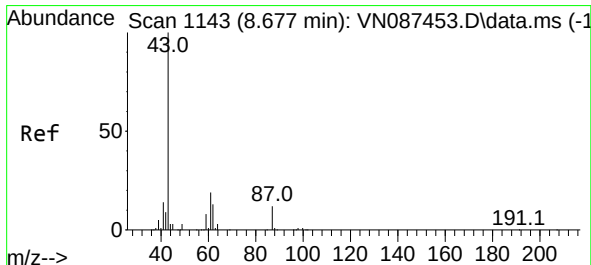
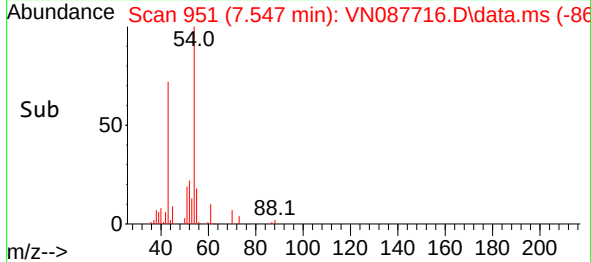
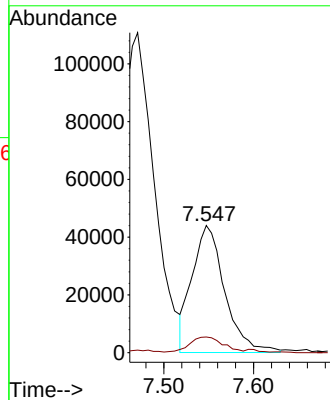
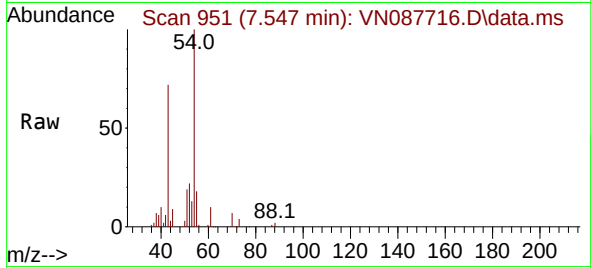




#43  
Ethyl Acetate  
Concen: 19.441 ug/l  
RT: 7.547 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

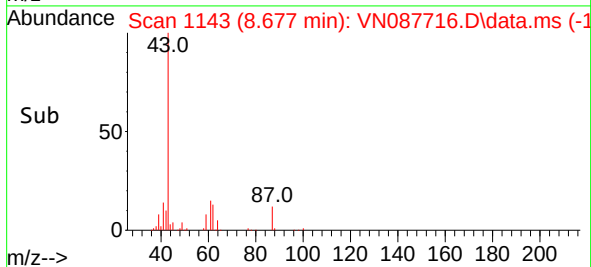
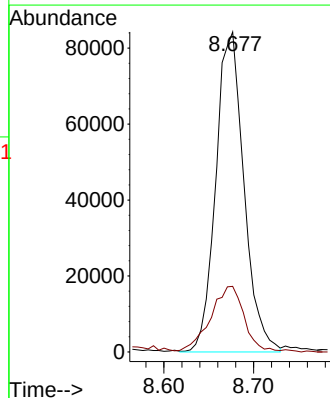
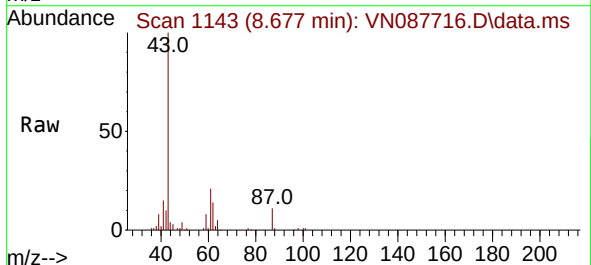
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

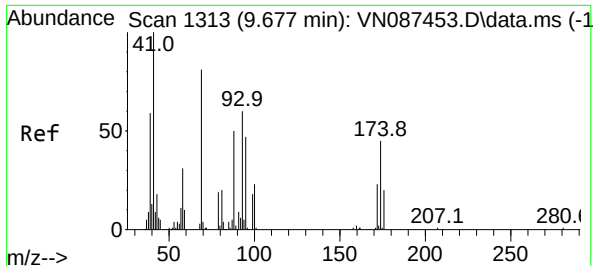
Tgt Ion: 43 Resp: 111211  
Ion Ratio Lower Upper  
43 100  
45 12.8 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 18.922 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 183479  
Ion Ratio Lower Upper  
43 100  
61 24.6 18.6 28.0





#45

1,4-Dioxane

Concen: 385.110 ug/l

RT: 9.682 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

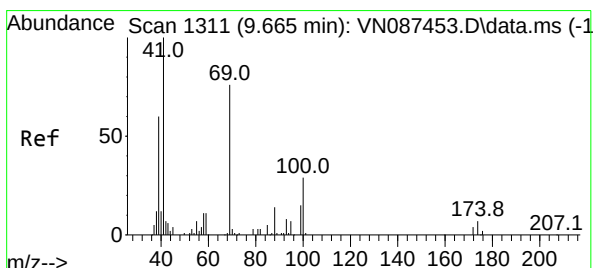
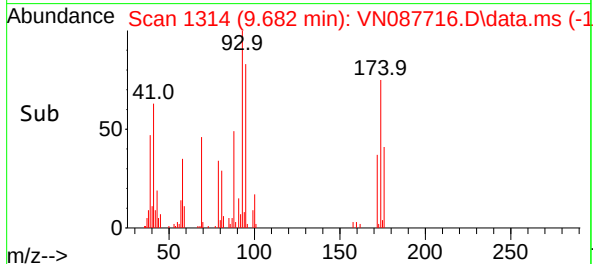
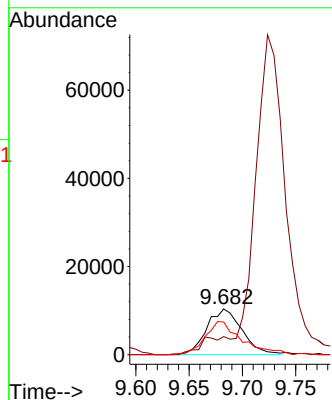
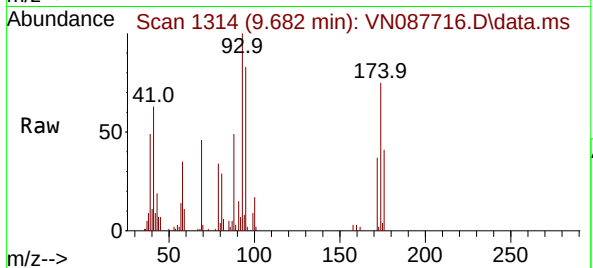
Tgt Ion: 88 Resp: 23806

Ion Ratio Lower Upper

88 100

43 11.7 24.1 36.1#

58 75.2 57.2 85.8



#46

Methyl methacrylate

Concen: 17.548 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

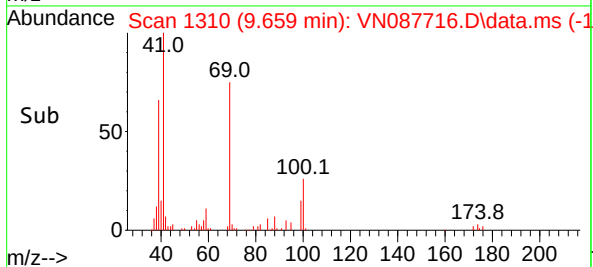
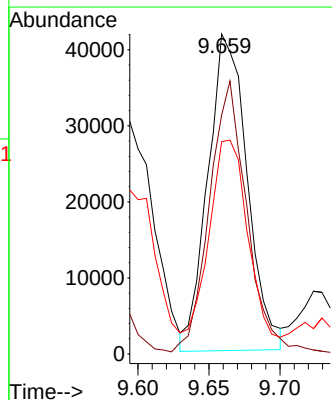
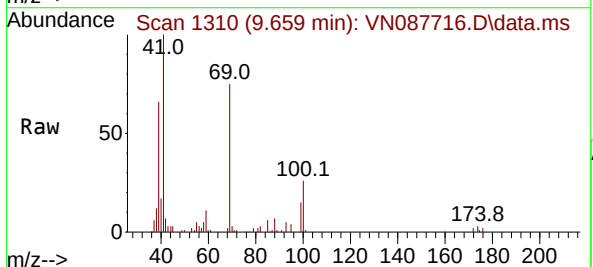
Tgt Ion: 41 Resp: 80320

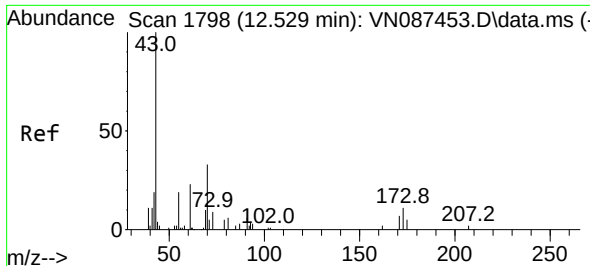
Ion Ratio Lower Upper

41 100

69 76.1 37.1 111.5

39 65.3 30.7 92.1

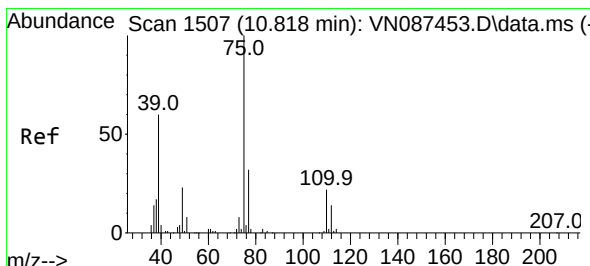
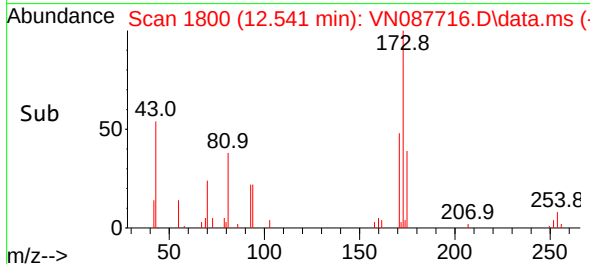
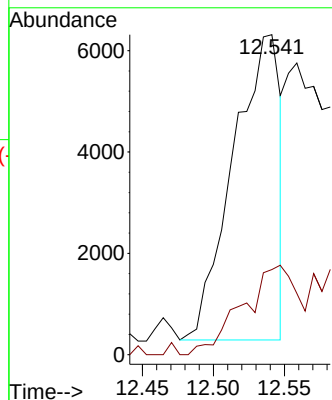
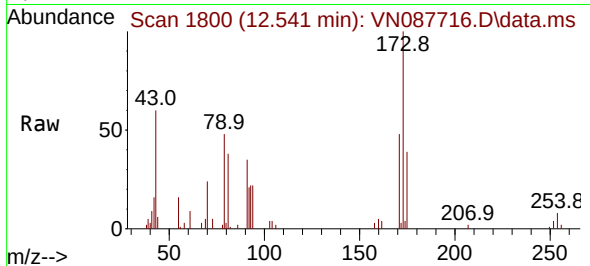




#47  
n-amy1 Acetate  
Concen: 2.586 ug/l  
RT: 12.541 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

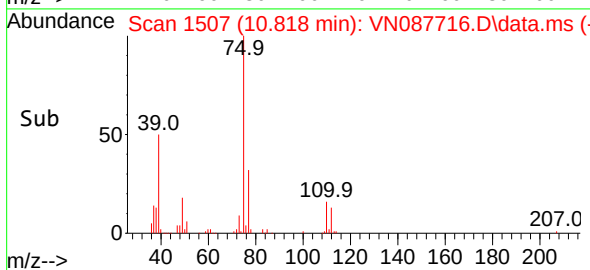
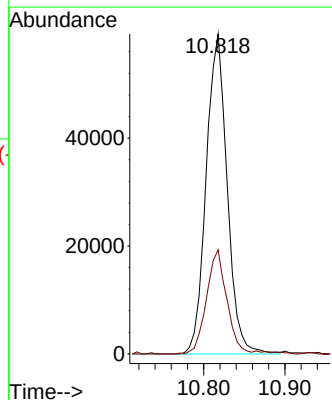
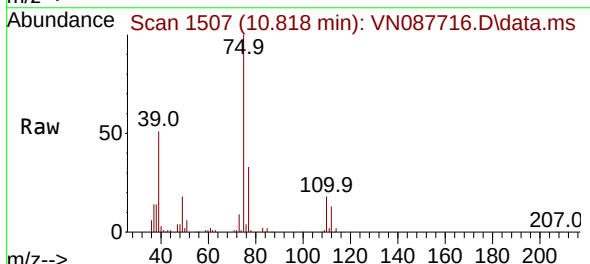
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

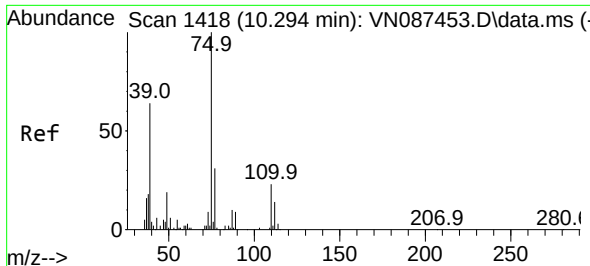
Tgt Ion: 43 Resp: 13853  
Ion Ratio Lower Upper  
43 100  
55 14.3 4.6 6.8#



#48  
t-1,3-Dichloropropene  
Concen: 19.344 ug/l  
RT: 10.818 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 75 Resp: 106677  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 19.503 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

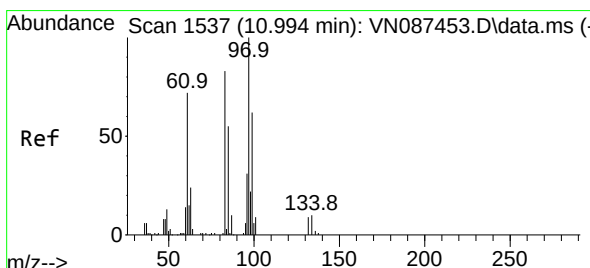
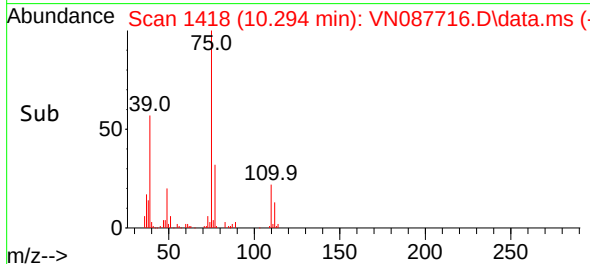
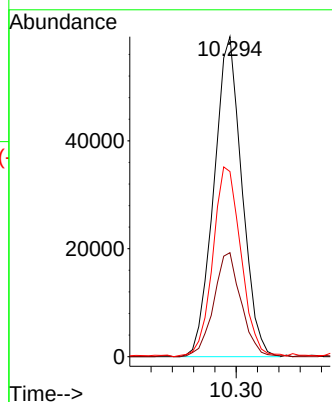
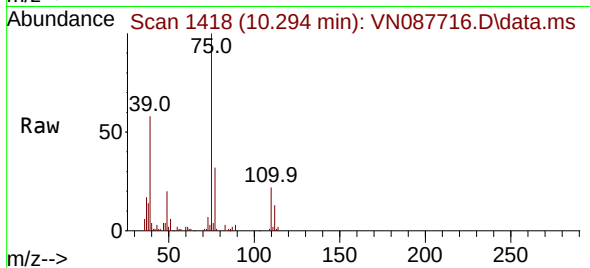
Tgt Ion: 75 Resp: 108236

Ion Ratio Lower Upper

75 100

77 32.5 24.6 36.8

39 57.5 51.5 77.3



#50

1,1,2-Trichloroethane

Concen: 22.146 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion: 97 Resp: 68256

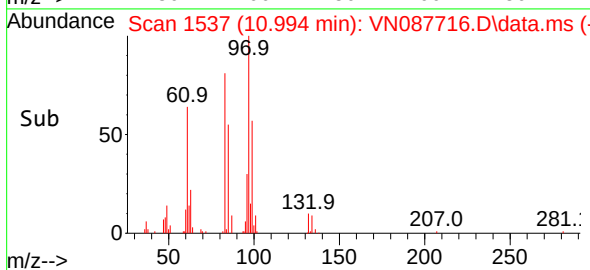
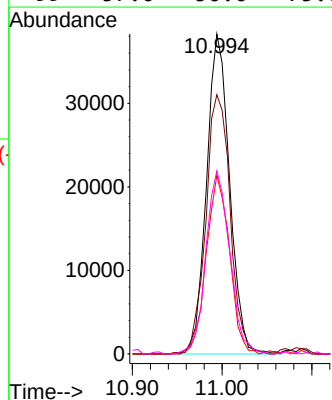
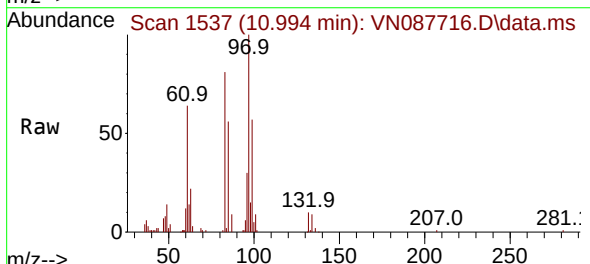
Ion Ratio Lower Upper

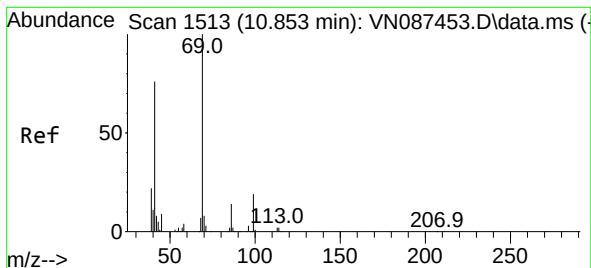
97 100

83 81.3 66.2 99.2

85 56.0 43.9 65.9

99 57.0 50.0 75.0

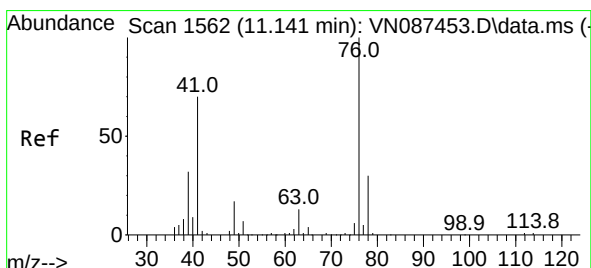
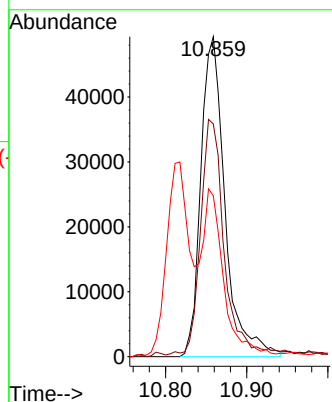
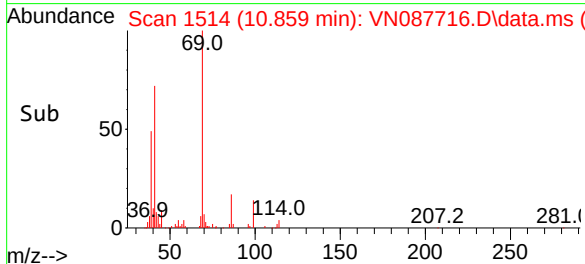
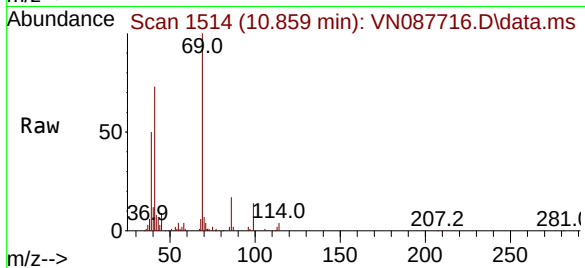




#51  
Ethyl methacrylate  
Concen: 18.772 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

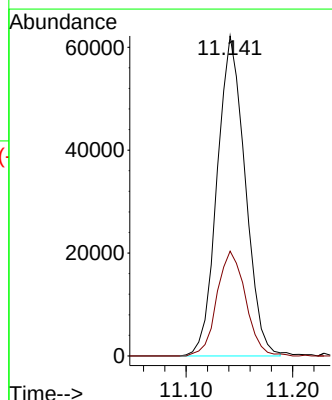
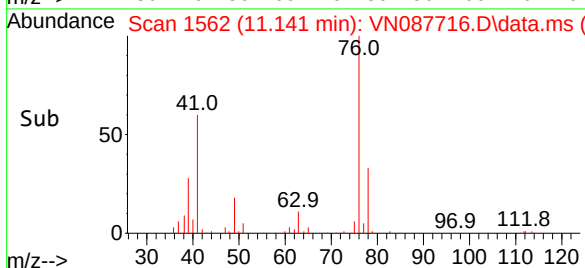
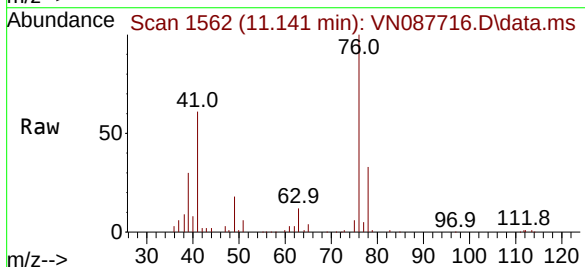
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

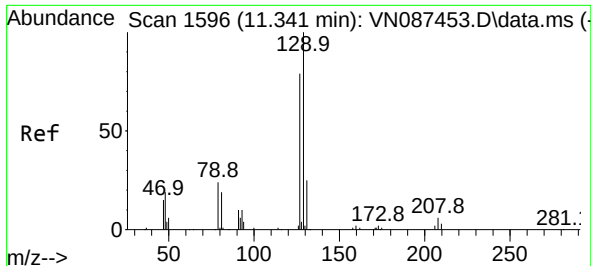
Tgt Ion: 69 Resp: 101895  
Ion Ratio Lower Upper  
69 100  
41 71.6 38.0 114.1  
39 49.3 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 20.465 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 113637  
Ion Ratio Lower Upper  
76 100  
78 33.4 0.0 63.0

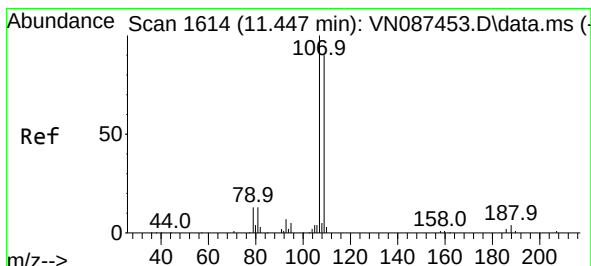
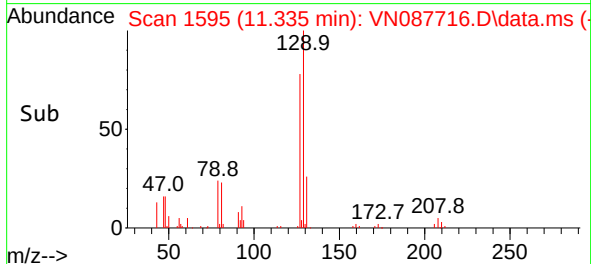
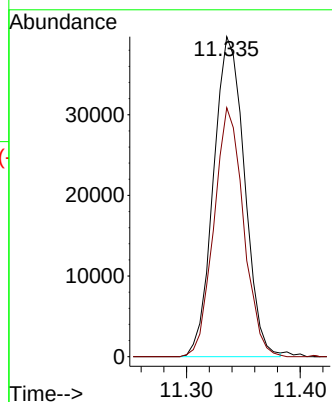
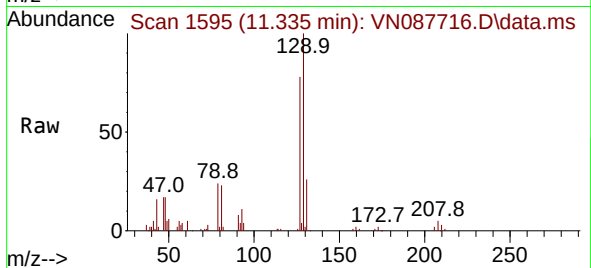




#53  
Dibromochloromethane  
Concen: 21.125 ug/l  
RT: 11.335 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

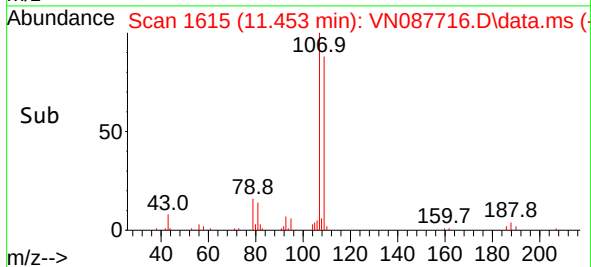
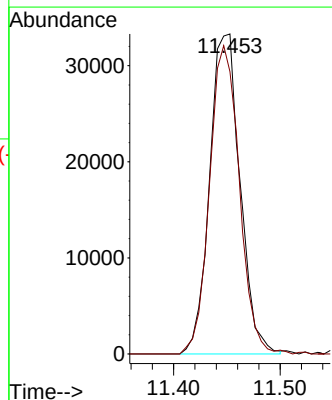
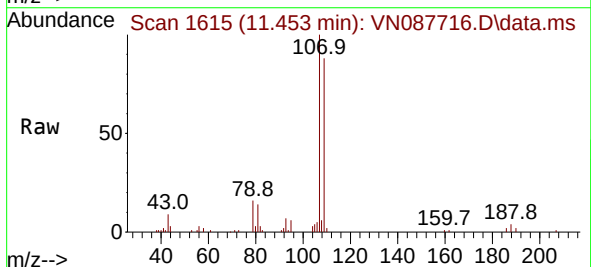
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

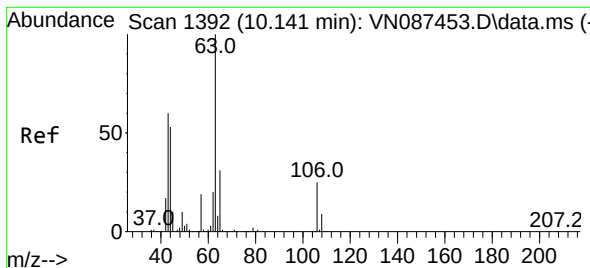
Tgt Ion:129 Resp: 75193  
Ion Ratio Lower Upper  
129 100  
127 74.3 39.1 117.3



#54  
1,2-Dibromoethane  
Concen: 20.230 ug/l  
RT: 11.453 min Scan# 1615  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:107 Resp: 66187  
Ion Ratio Lower Upper  
107 100  
109 93.8 74.2 111.4

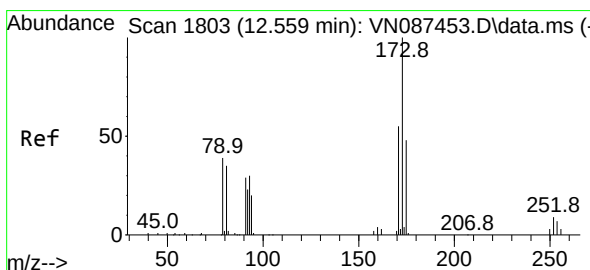
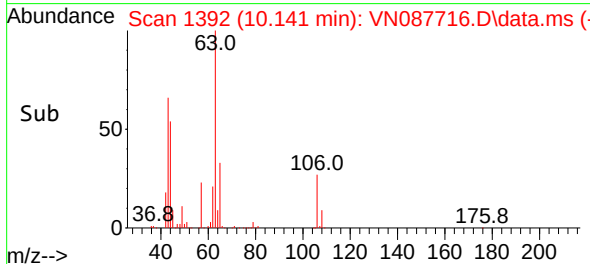
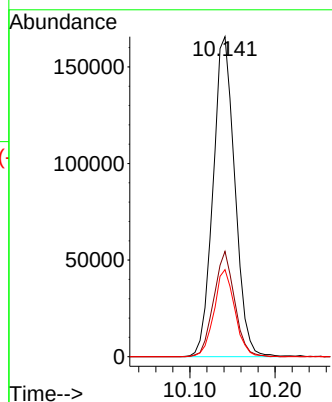
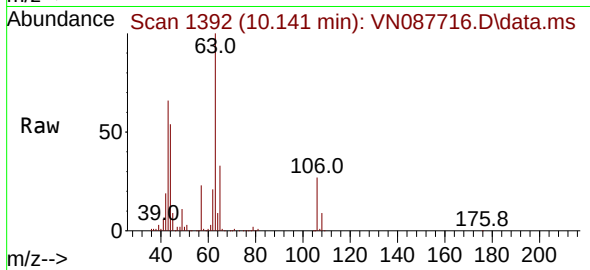




#55  
2-Chloroethyl vinyl ether  
Concen: 103.123 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

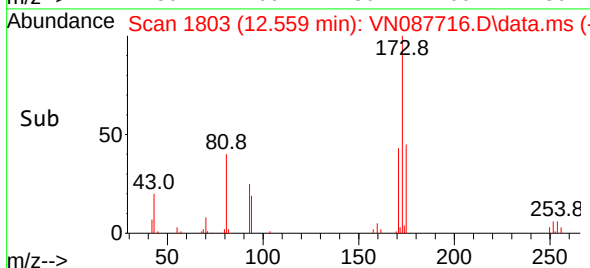
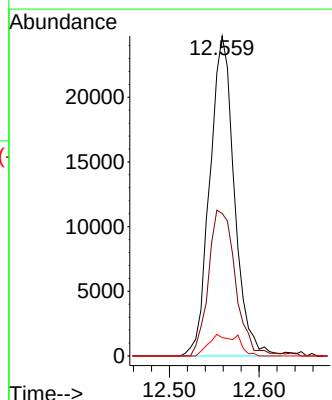
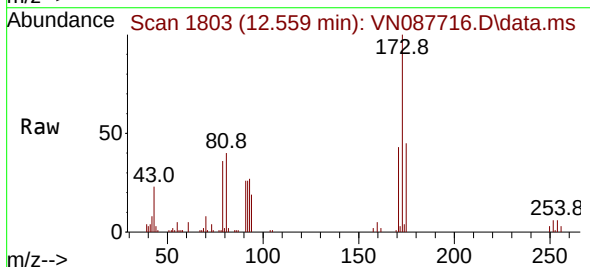
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

Tgt Ion: 63 Resp: 294669  
Ion Ratio Lower Upper  
63 100  
65 31.6 25.7 38.5  
106 26.0 20.7 31.1

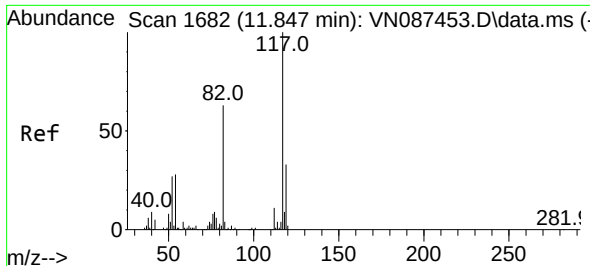


#56  
Bromoform  
Concen: 19.985 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 173 Resp: 47049  
Ion Ratio Lower Upper  
173 100  
175 49.2 38.8 58.2  
254 6.0 3.9 5.9#



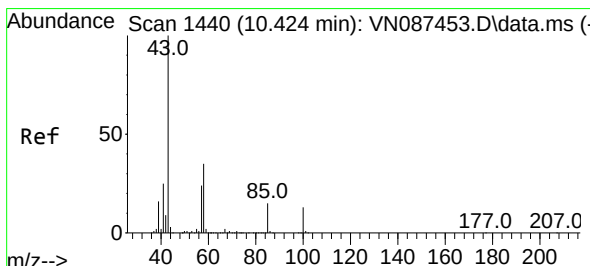
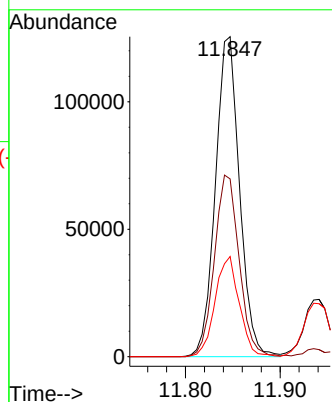
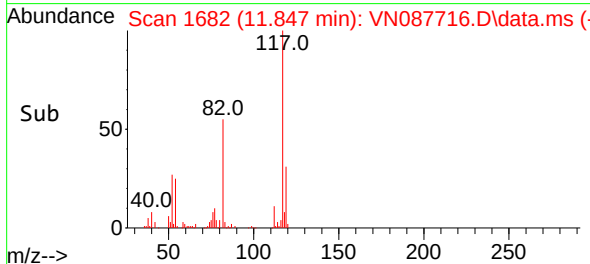
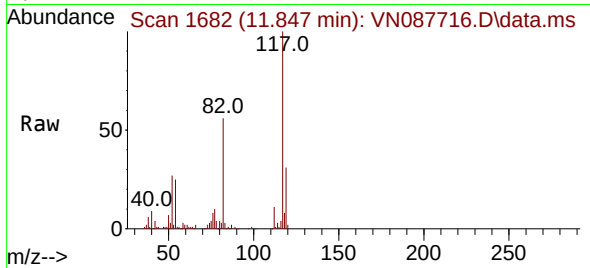




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

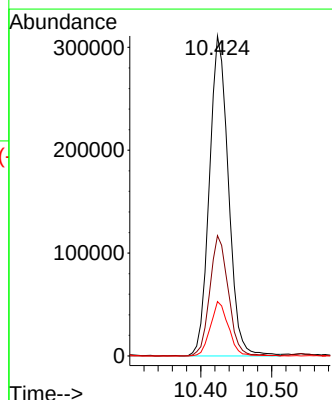
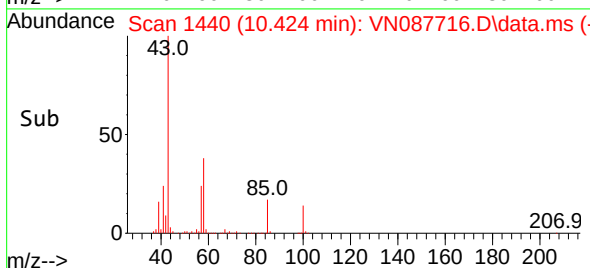
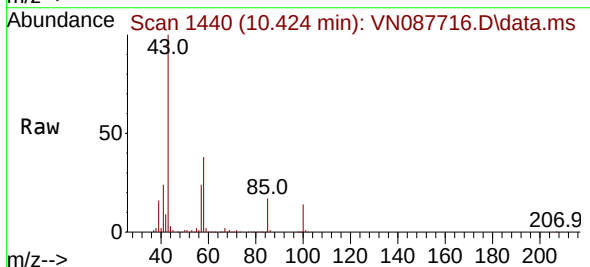
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

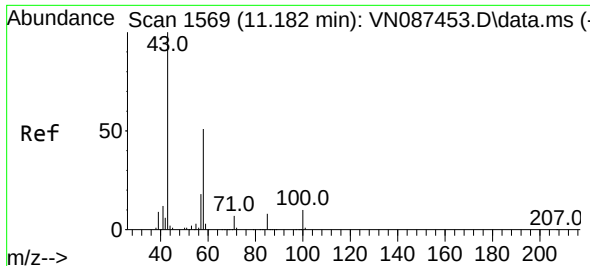
Tgt Ion:117 Resp: 222512  
Ion Ratio Lower Upper  
117 100  
82 58.3 49.2 73.8  
119 31.4 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 101.308 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 579891  
Ion Ratio Lower Upper  
43 100  
58 36.6 29.0 43.6  
85 16.1 12.7 19.1

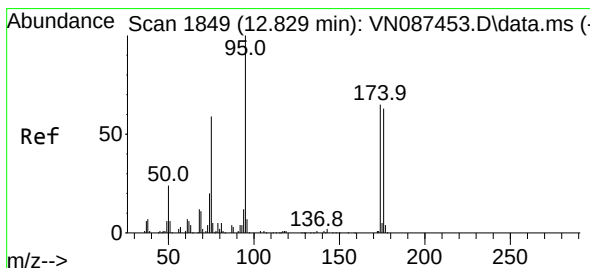
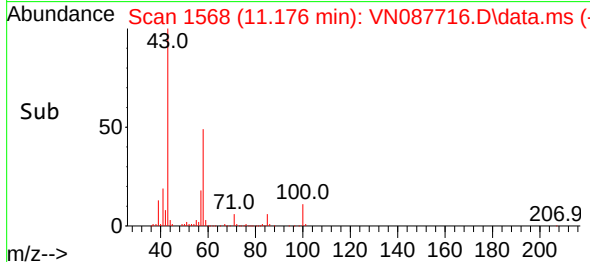
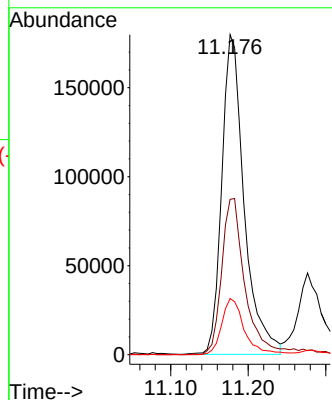
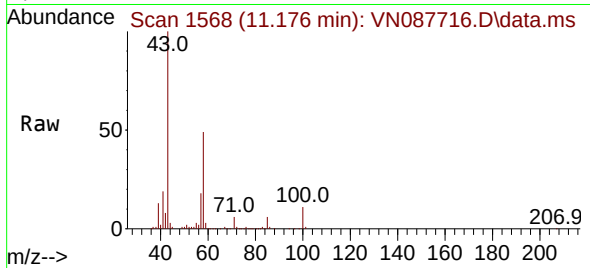




#59  
2-Hexanone  
Concen: 92.671 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

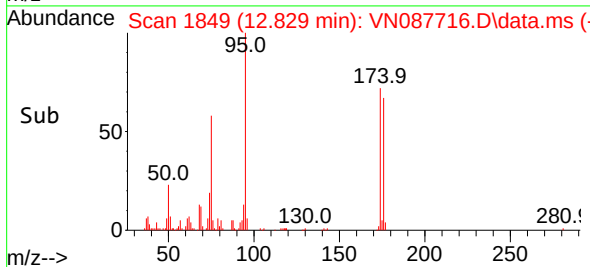
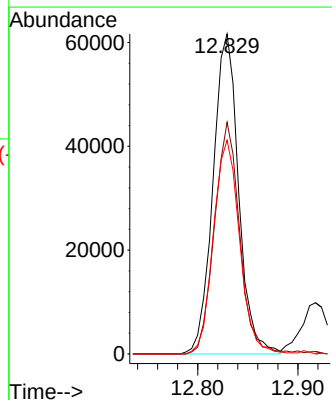
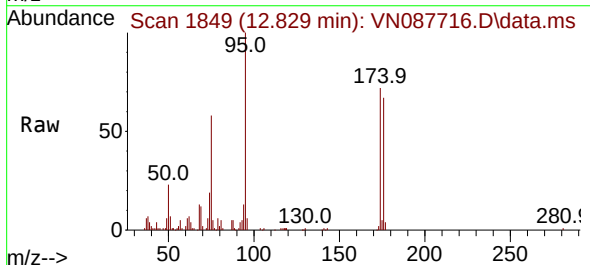
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

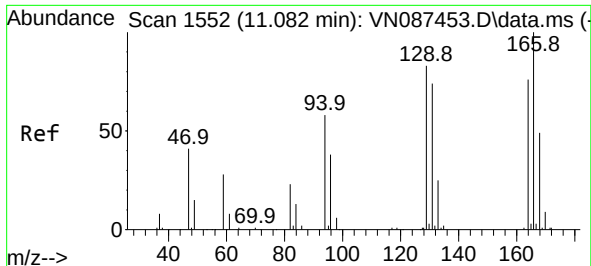
Tgt Ion: 43 Resp: 360418  
Ion Ratio Lower Upper  
43 100  
58 50.2 41.0 61.6  
57 17.8 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 28.468 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 95 Resp: 109013  
Ion Ratio Lower Upper  
95 100  
174 71.4 52.3 78.5  
176 68.4 49.8 74.8

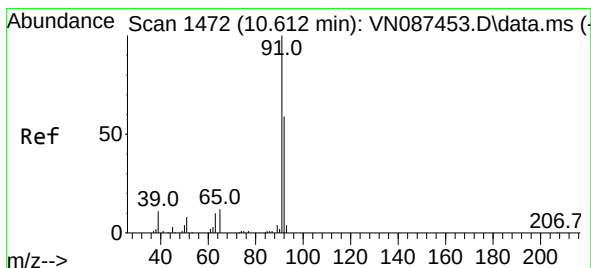
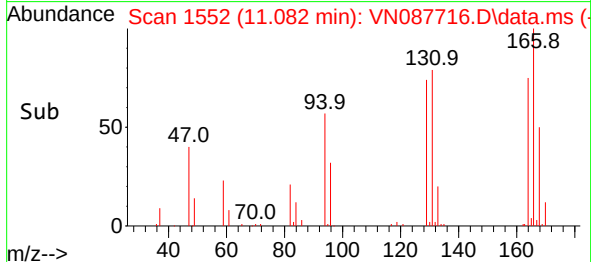
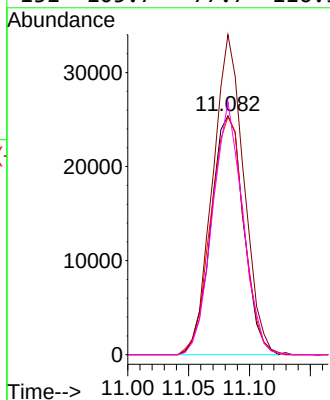
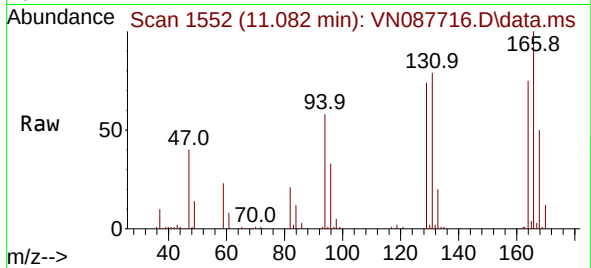




#61  
Tetrachloroethene  
Concen: 21.855 ug/l  
RT: 11.082 min Scan# 1100  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

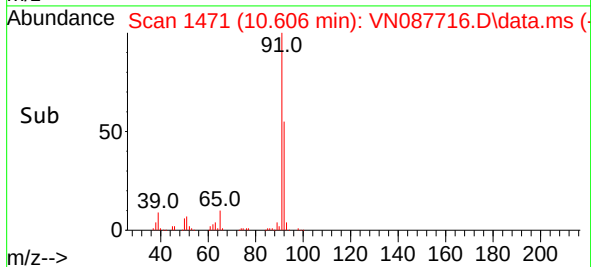
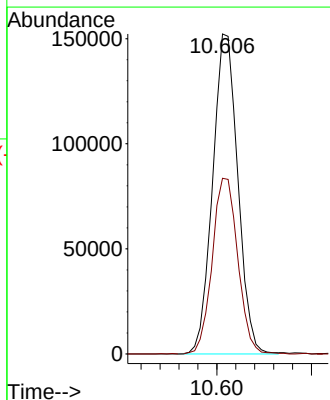
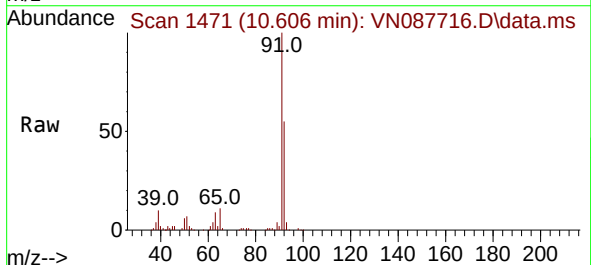
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

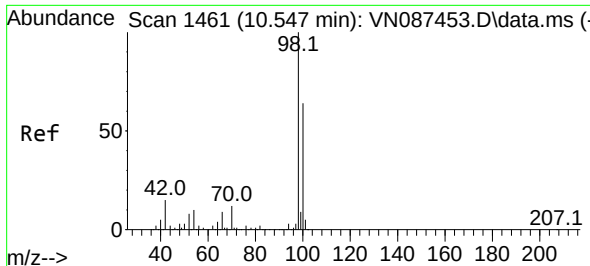
Tgt Ion:164 Resp: 47378  
Ion Ratio Lower Upper  
164 100  
166 133.9 105.4 158.0  
129 99.6 87.7 131.5  
131 105.7 77.7 116.5



#62  
Toluene  
Concen: 20.473 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 281160  
Ion Ratio Lower Upper  
91 100  
92 55.7 45.8 68.6

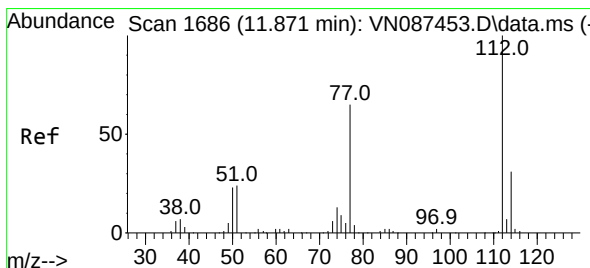
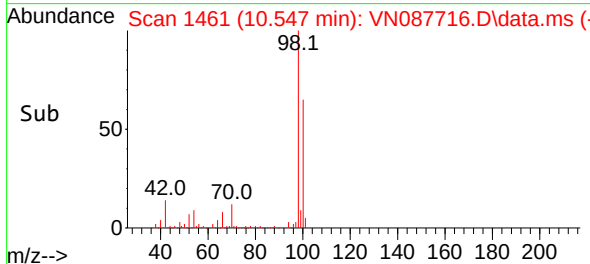
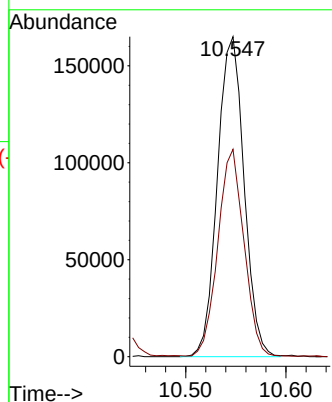
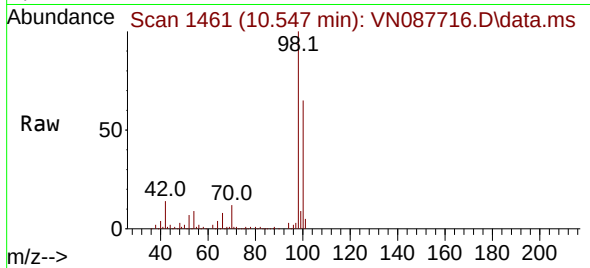




#63  
Toluene-d8  
Concen: 29.685 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

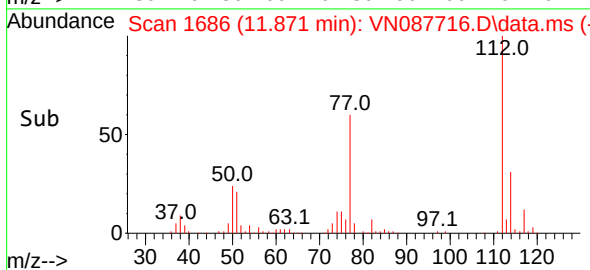
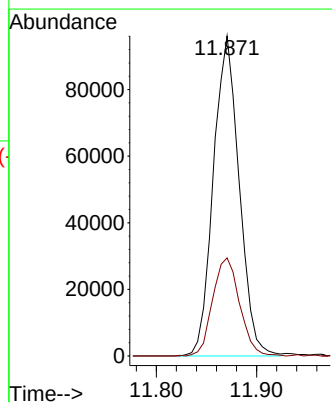
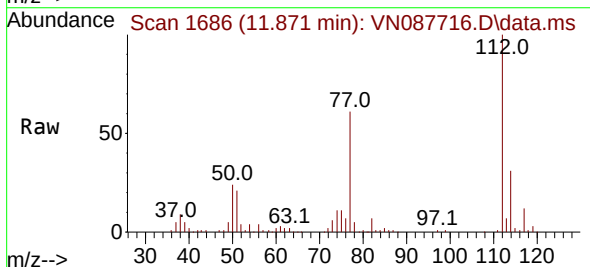
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

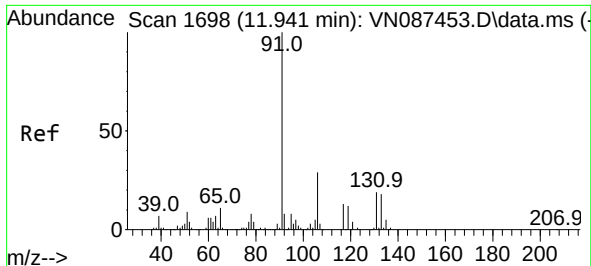
Tgt Ion: 98 Resp: 303926  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.5 75.7



#64  
Chlorobenzene  
Concen: 20.374 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 112 Resp: 171933  
Ion Ratio Lower Upper  
112 100  
114 30.4 24.7 37.1

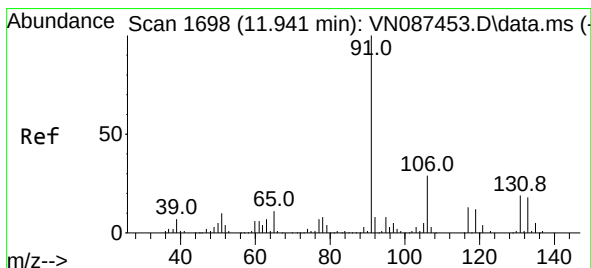
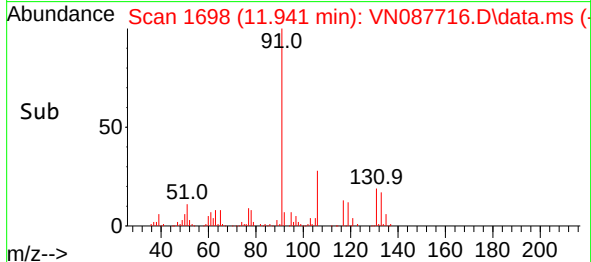
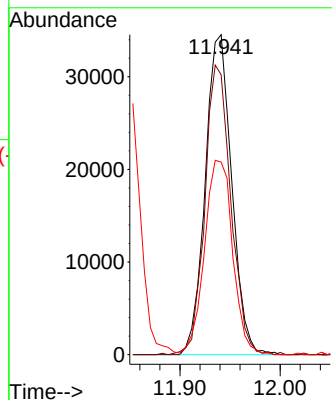
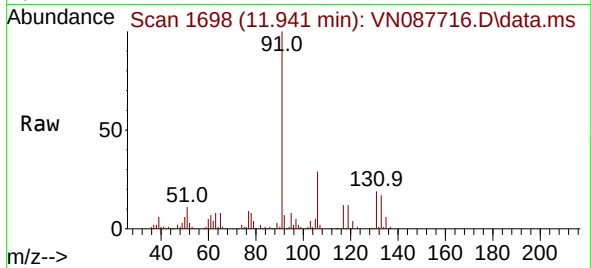




#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.427 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

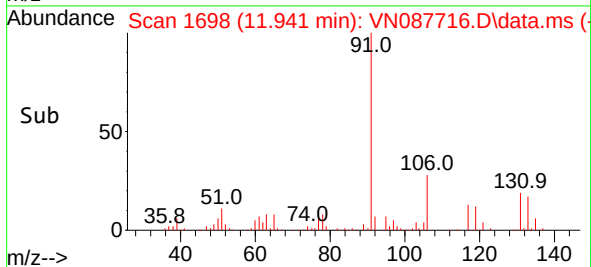
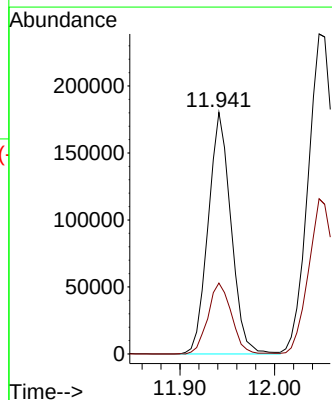
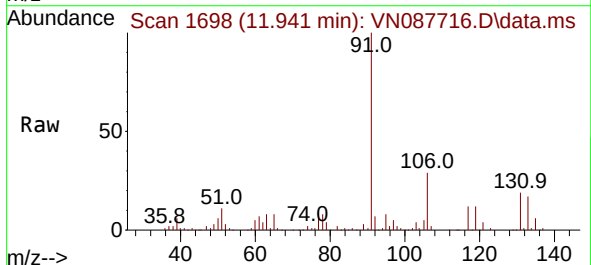
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

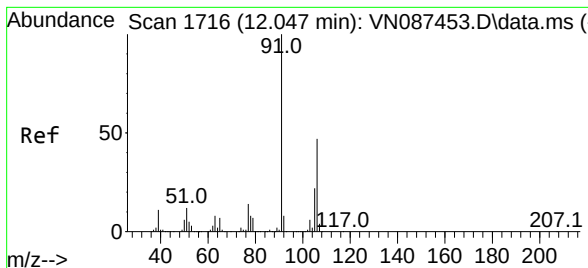
Tgt Ion:131 Resp: 63573  
Ion Ratio Lower Upper  
131 100  
133 88.6 0.0 189.8  
119 64.4 0.0 133.2



#66  
Ethyl Benzene  
Concen: 19.767 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 302575  
Ion Ratio Lower Upper  
91 100  
106 29.2 22.9 34.3

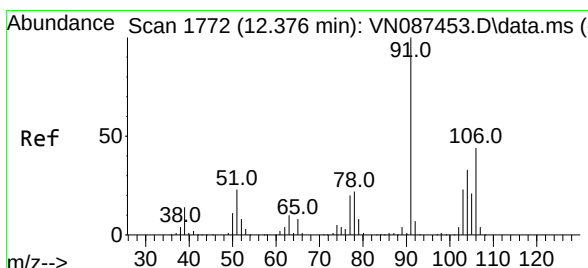
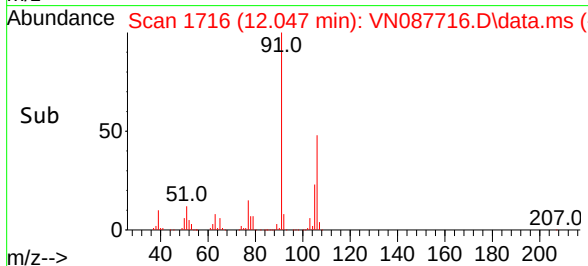
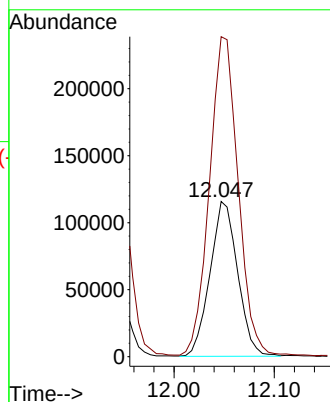
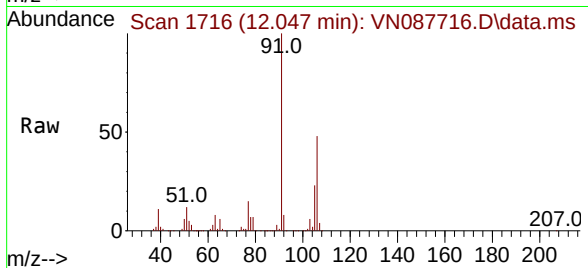




#67  
m/p-Xylenes  
Concen: 39.370 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

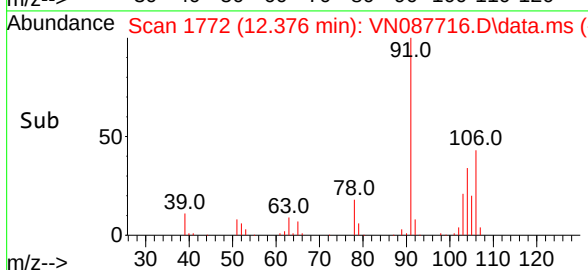
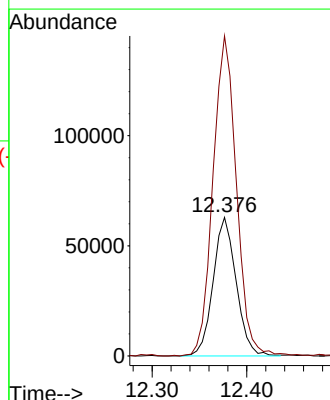
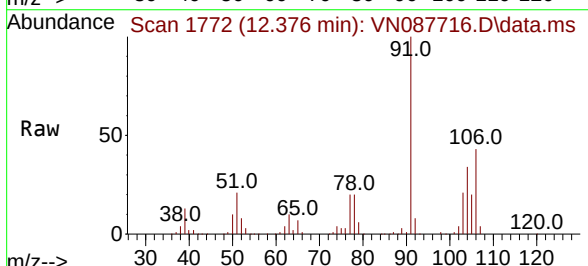
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

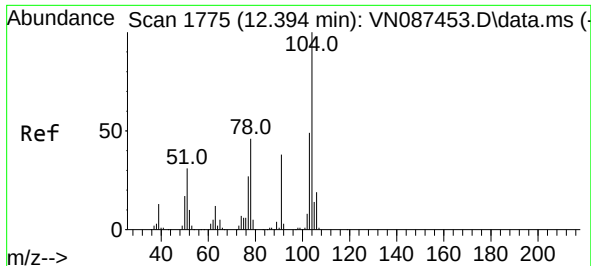
Tgt Ion:106 Resp: 221209  
Ion Ratio Lower Upper  
106 100  
91 216.5 174.2 261.2



#68  
o-Xylene  
Concen: 19.265 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:106 Resp: 106491  
Ion Ratio Lower Upper  
106 100  
91 233.8 114.5 343.5

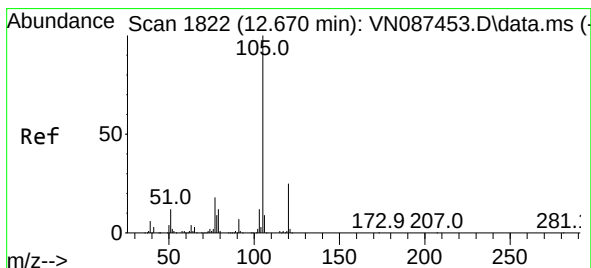
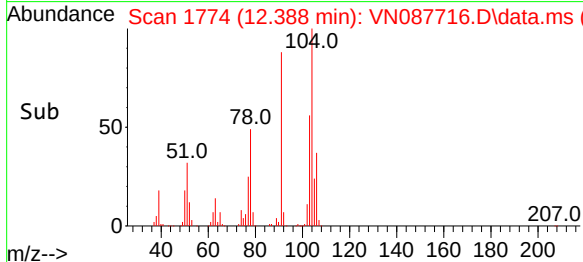
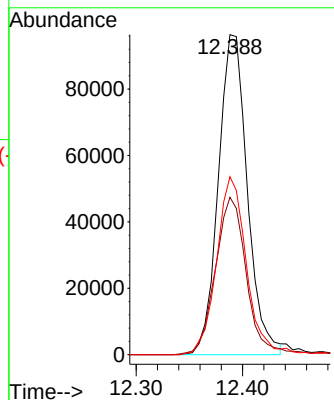
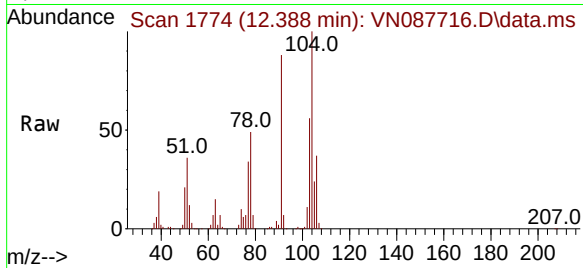




#69  
Styrene  
Concen: 19.326 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

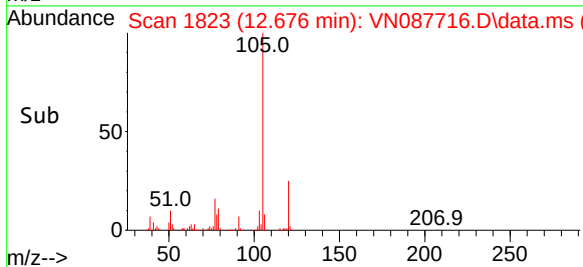
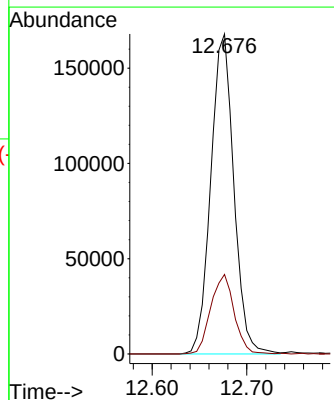
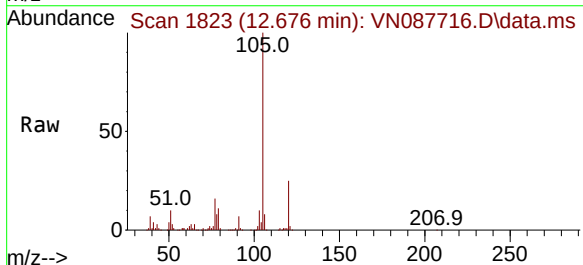
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

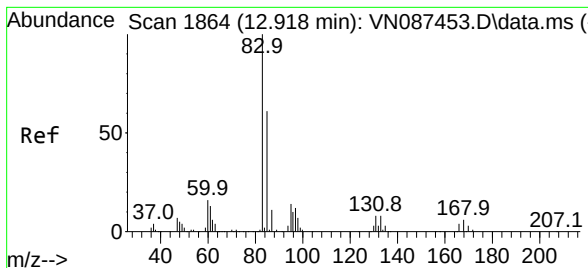
Tgt Ion:104 Resp: 182406  
Ion Ratio Lower Upper  
104 100  
78 52.4 43.8 65.8  
103 56.4 43.1 64.7



#70  
Isopropylbenzene  
Concen: 20.257 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:105 Resp: 284473  
Ion Ratio Lower Upper  
105 100  
120 25.2 17.5 32.5

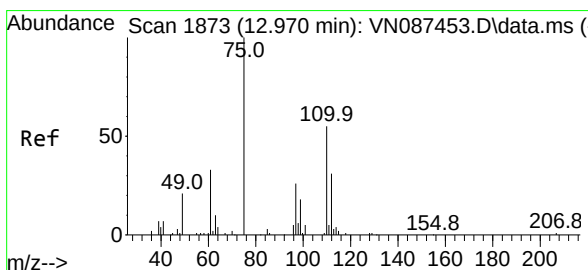
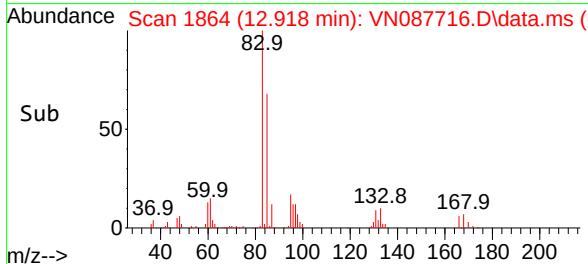
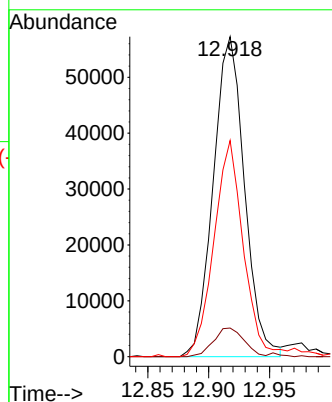
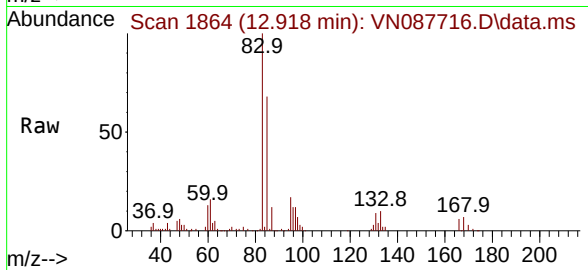




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 21.223 ug/l  
 RT: 12.918 min Scan# 1864  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

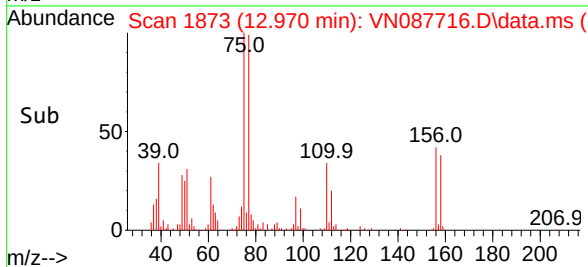
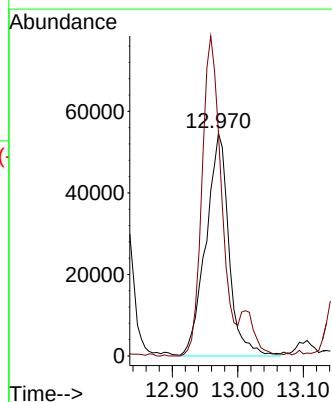
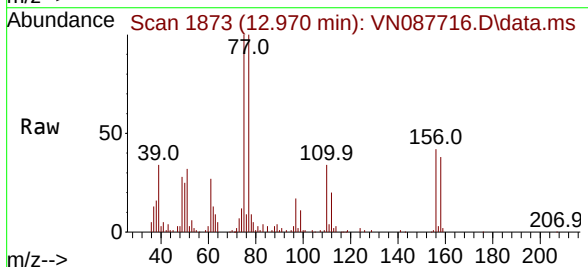
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

Tgt Ion: 83 Resp: 102118  
 Ion Ratio Lower Upper  
 83 100  
 131 8.8 4.8 14.3  
 85 63.6 31.7 95.1

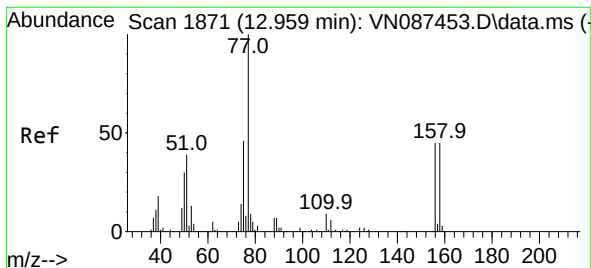


#72  
 1,2,3-Trichloropropane  
 Concen: 29.797 ug/l  
 RT: 12.970 min Scan# 1873  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

Tgt Ion: 75 Resp: 133568  
 Ion Ratio Lower Upper  
 75 100  
 77 120.2 0.0 385.0







#73

Bromobenzene

Concen: 20.415 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

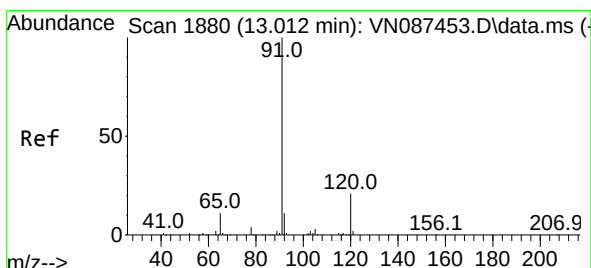
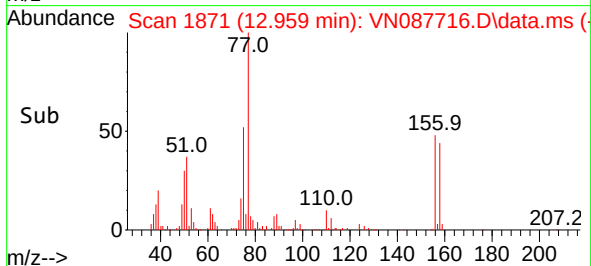
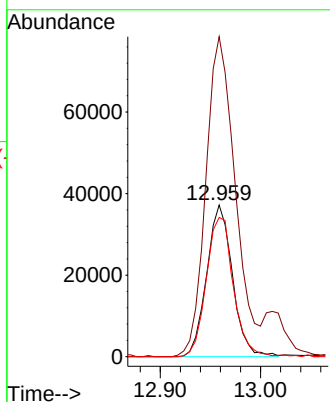
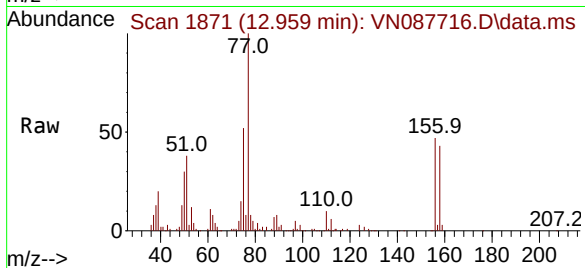
Tgt Ion:156 Resp: 66461

Ion Ratio Lower Upper

156 100

77 241.6 0.0 506.6

158 96.0 0.0 193.6



#74

n-propylbenzene

Concen: 20.144 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN087716.D

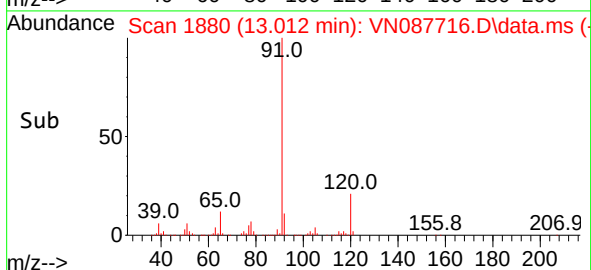
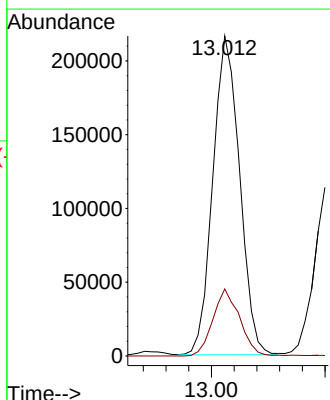
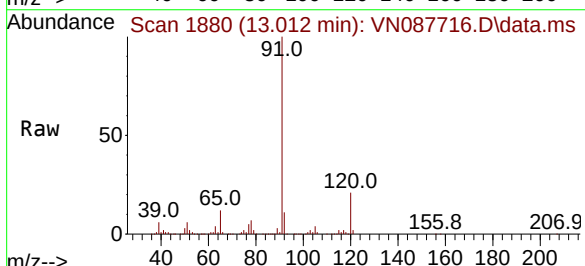
Acq: 04 Sep 2025 12:38

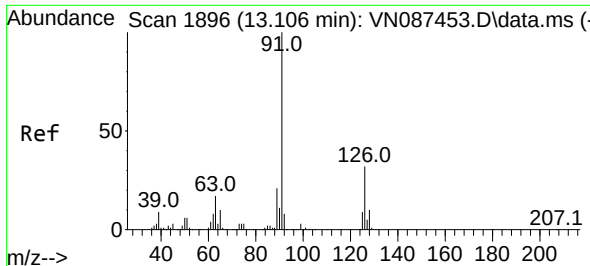
Tgt Ion: 91 Resp: 353290

Ion Ratio Lower Upper

91 100

120 21.0 0.0 41.8

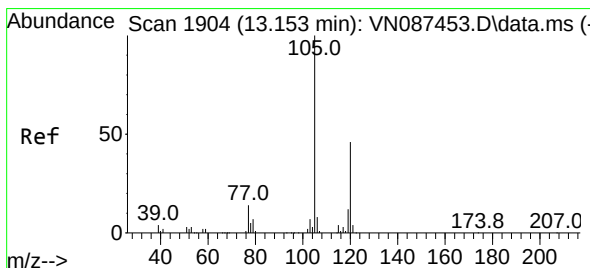
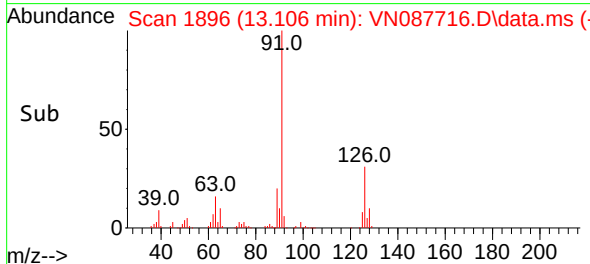
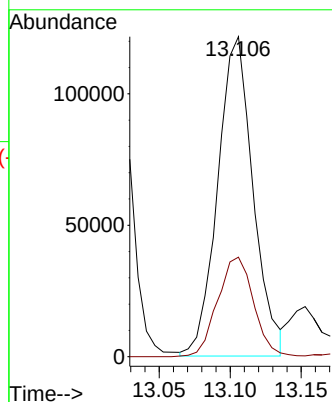
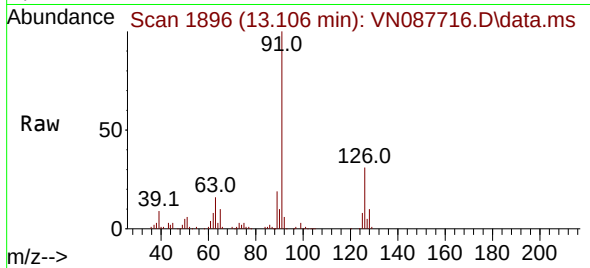




#75  
2-Chlorotoluene  
Concen: 19.534 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

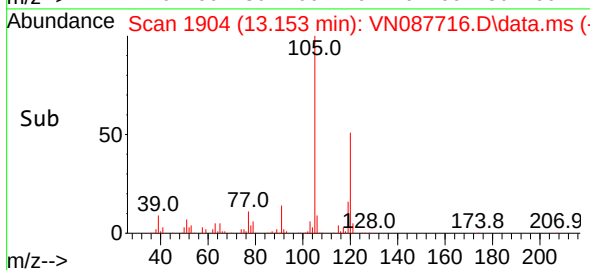
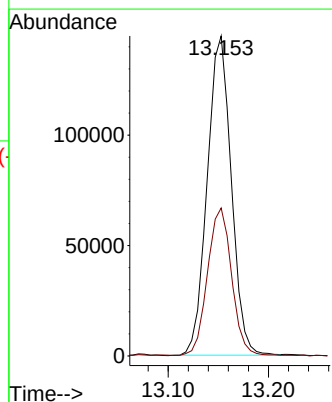
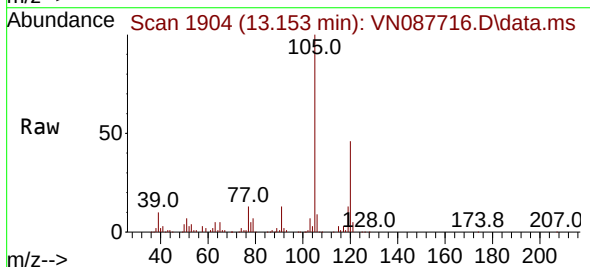
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

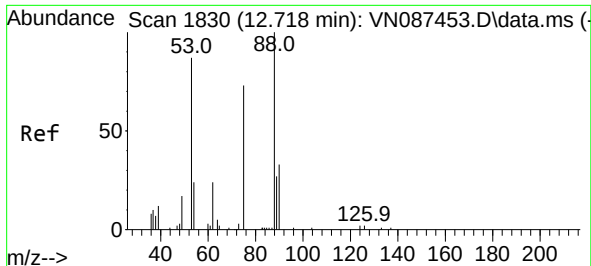
Tgt Ion: 91 Resp: 210740  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 20.093 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 105 Resp: 241598  
Ion Ratio Lower Upper  
105 100  
120 46.7 0.0 91.2

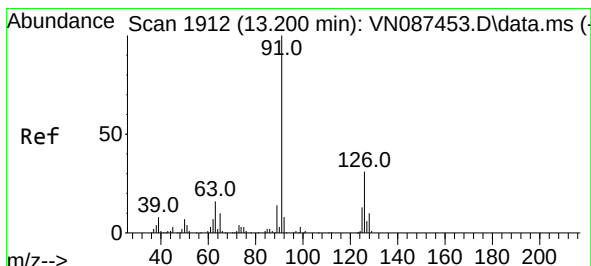
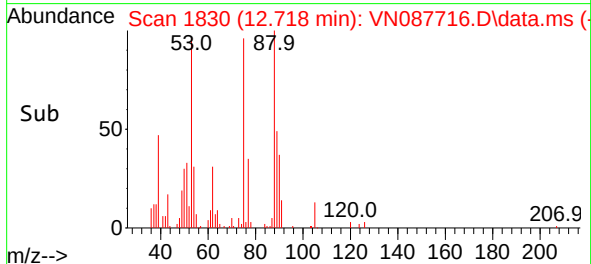
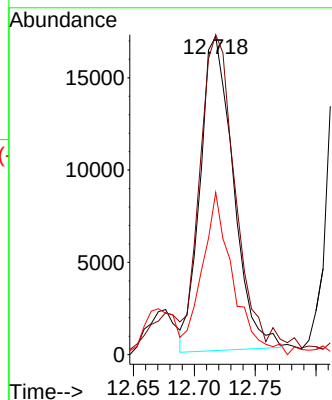
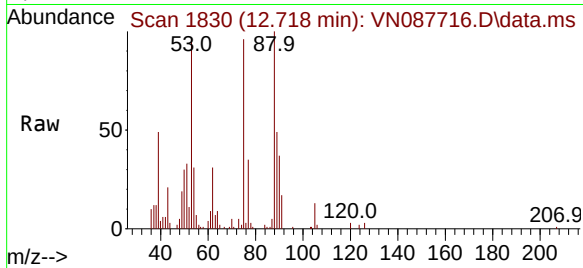




#77  
t-1,4-Dichloro-2-butene  
Concen: 18.997 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

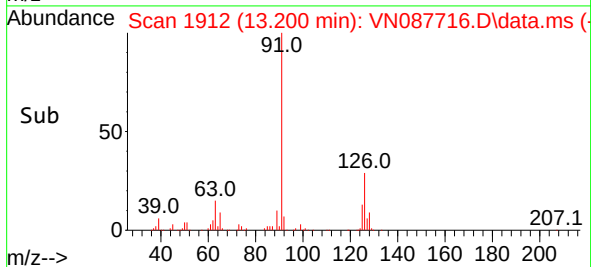
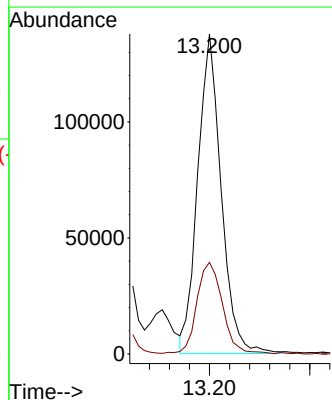
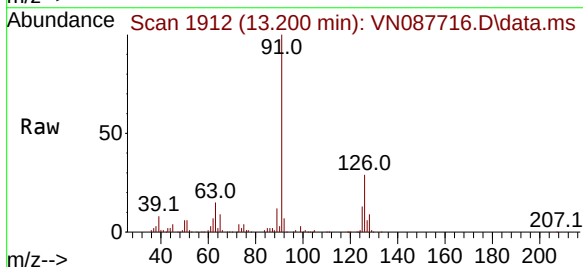
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

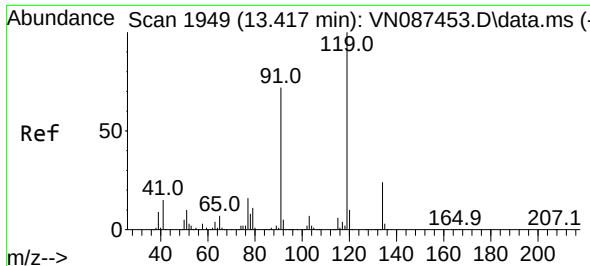
Tgt Ion: 75 Resp: 32235  
Ion Ratio Lower Upper  
75 100  
53 98.6 59.0 176.8  
89 49.0 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 20.484 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 223950  
Ion Ratio Lower Upper  
91 100  
126 31.2 0.0 63.2

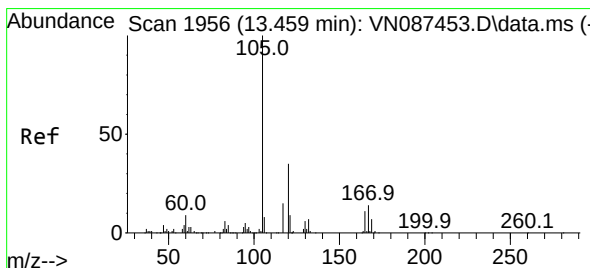
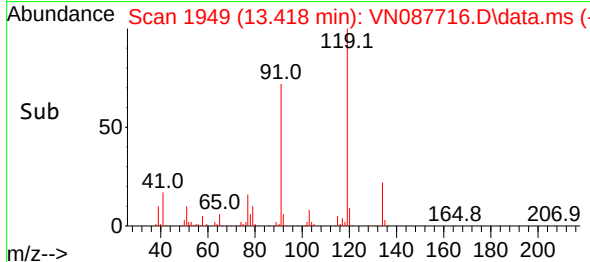
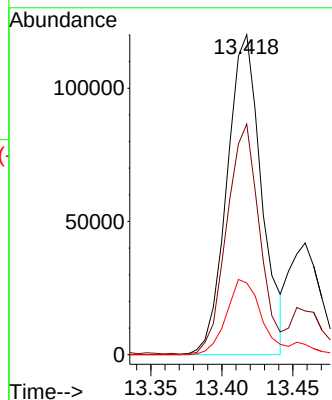
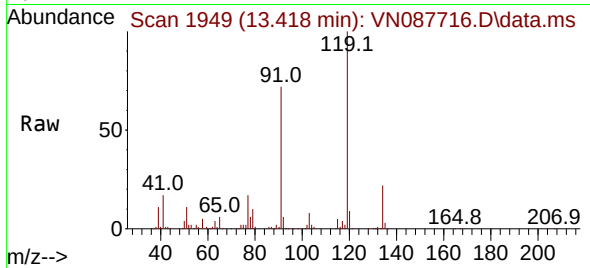




#79  
tert-butylbenzene  
Concen: 20.057 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

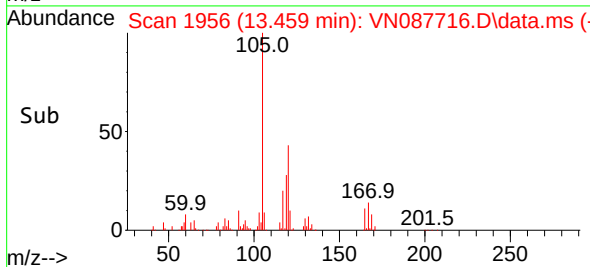
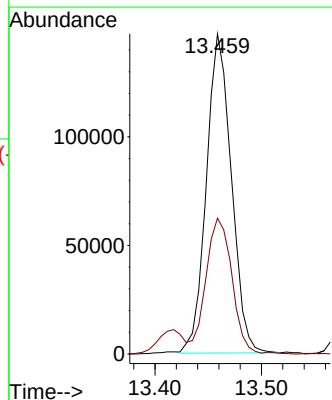
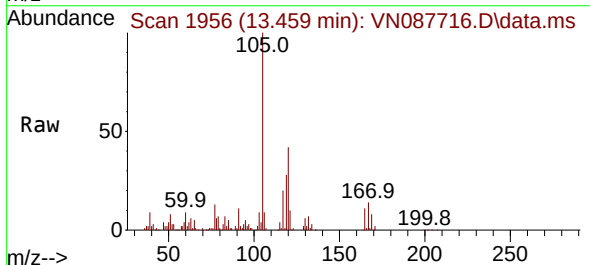
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

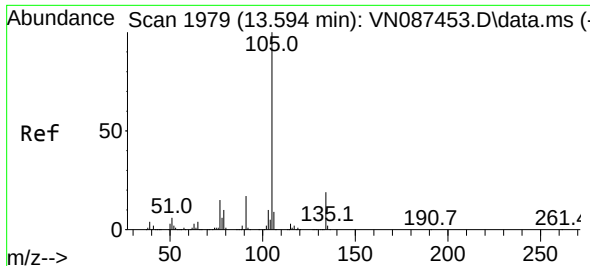
Tgt Ion:119 Resp: 203336  
Ion Ratio Lower Upper  
119 100  
91 67.8 0.0 141.6  
134 23.9 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 19.957 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:105 Resp: 239788  
Ion Ratio Lower Upper  
105 100  
120 44.4 0.0 87.2

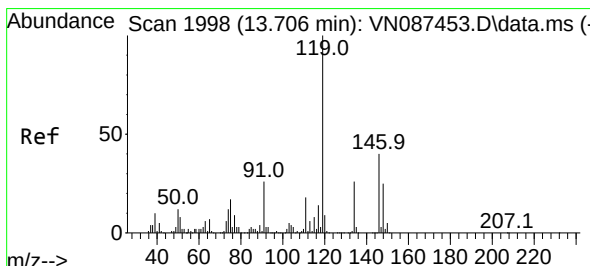
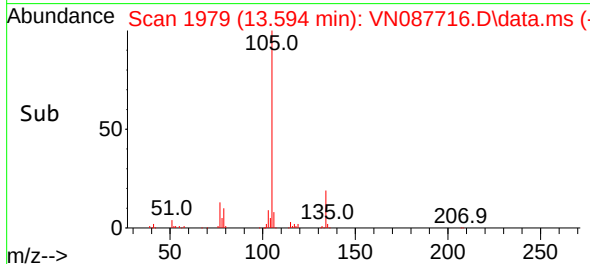
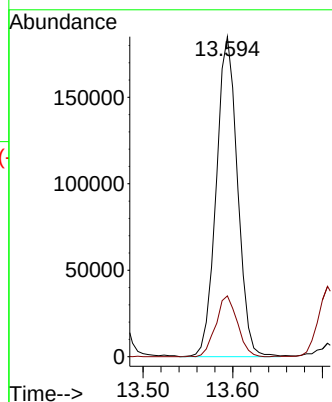
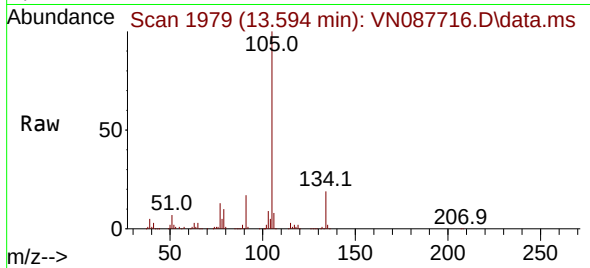




#81  
 sec-Butylbenzene  
 Concen: 20.645 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

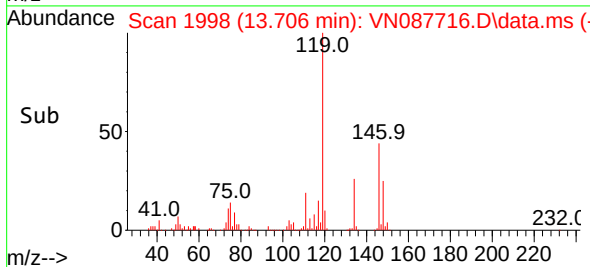
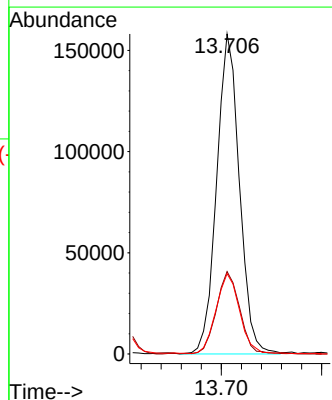
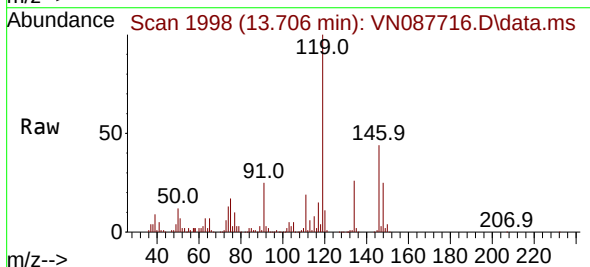
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0904WBSD01

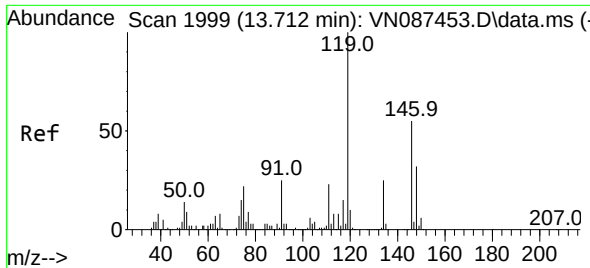
Tgt Ion:105 Resp: 304693  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 20.265 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087716.D  
 Acq: 04 Sep 2025 12:38

Tgt Ion:119 Resp: 248332  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 0.0 51.4  
 91 25.8 0.0 52.0

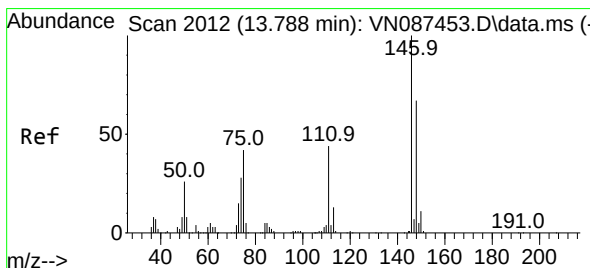
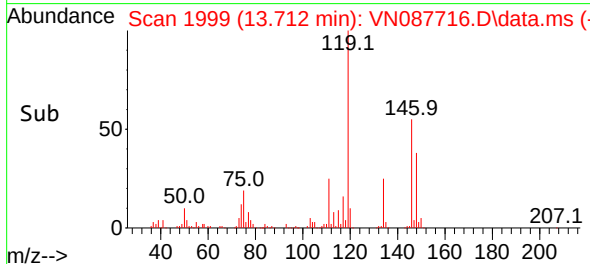
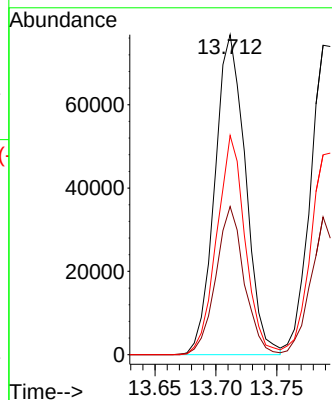
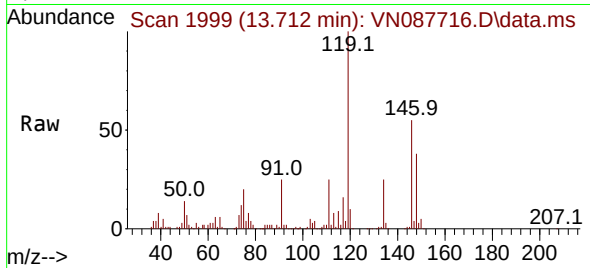




#83  
1,3-Dichlorobenzene  
Concen: 21.724 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

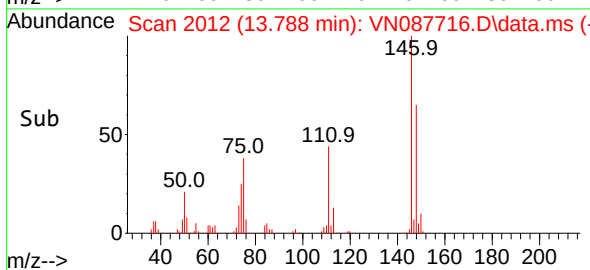
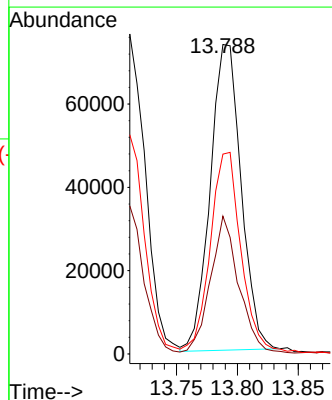
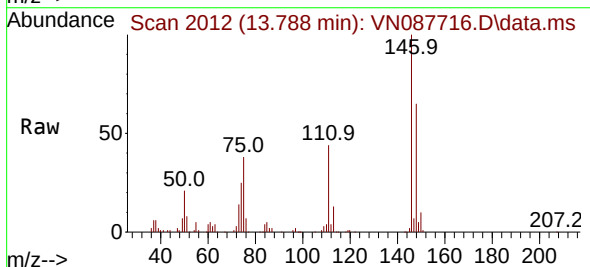
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

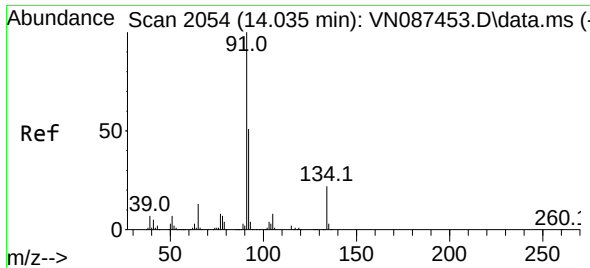
Tgt Ion:146 Resp: 134671  
Ion Ratio Lower Upper  
146 100  
111 42.9 21.9 65.5  
148 63.4 31.3 93.9



#84  
1,4-Dichlorobenzene  
Concen: 20.660 ug/l  
RT: 13.788 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:146 Resp: 129848  
Ion Ratio Lower Upper  
146 100  
111 41.9 21.1 63.1  
148 66.6 31.4 94.3

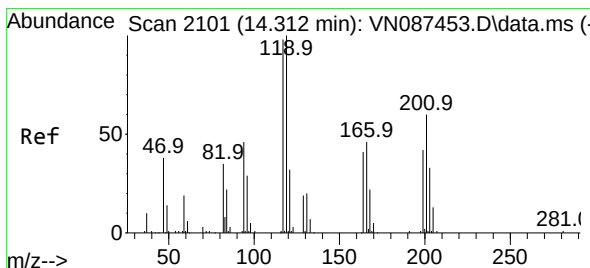
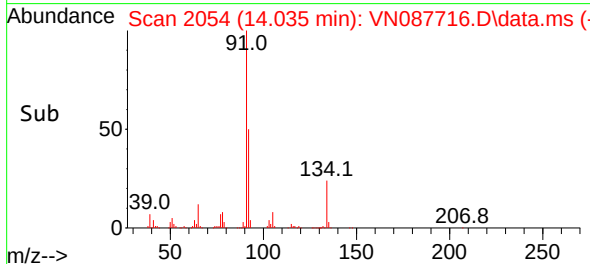
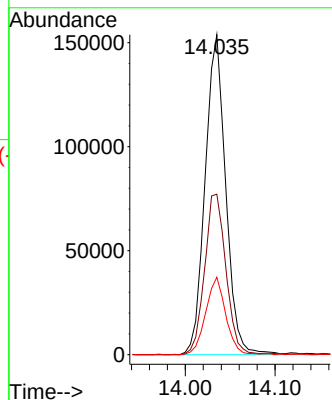
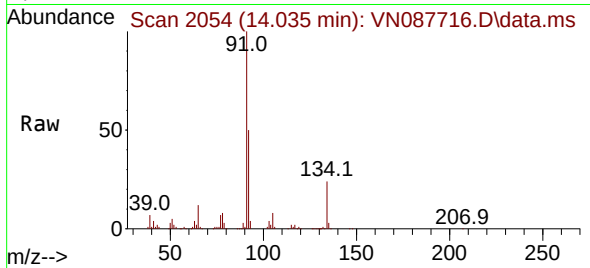




#85  
n-Butylbenzene  
Concen: 20.461 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

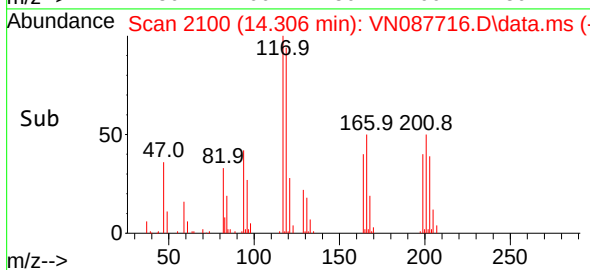
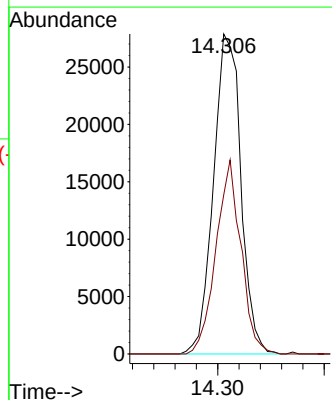
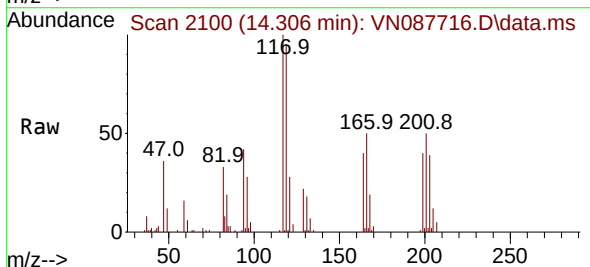
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

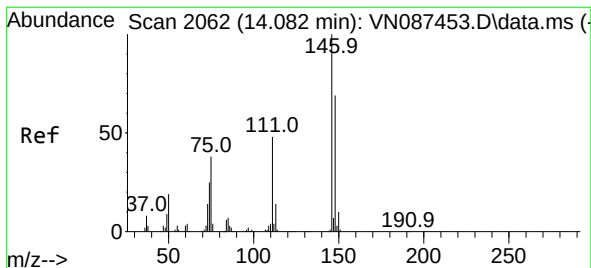
Tgt Ion: 91 Resp: 245310  
Ion Ratio Lower Upper  
91 100  
92 51.8 0.0 106.6  
134 23.5 0.0 44.4



#86  
Hexachloroethane  
Concen: 20.801 ug/l  
RT: 14.306 min Scan# 2100  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion: 117 Resp: 49777  
Ion Ratio Lower Upper  
117 100  
201 55.4 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 21.582 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

VN0904WBSD01

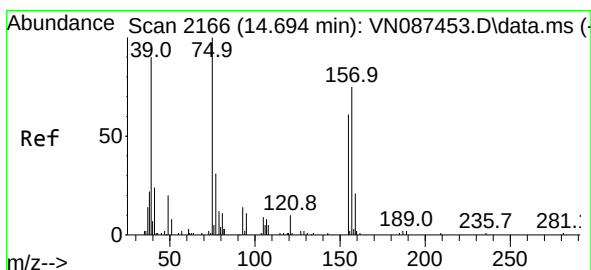
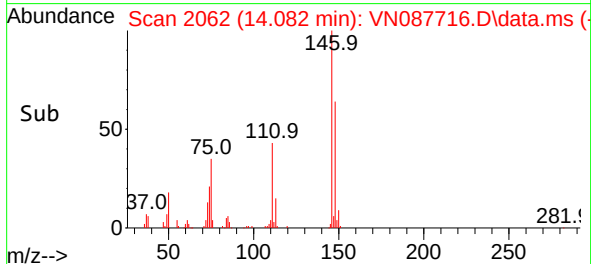
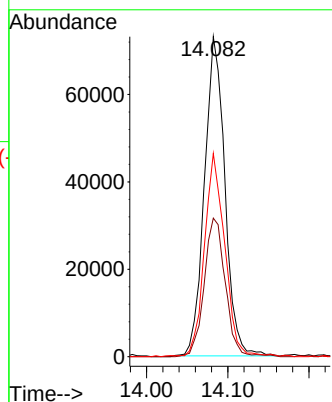
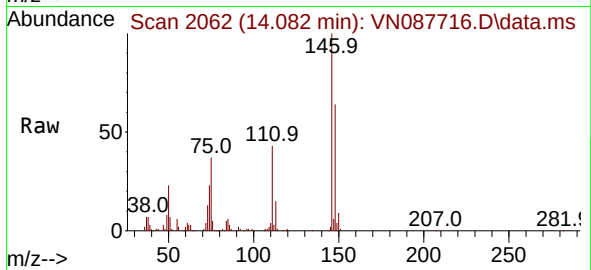
Tgt Ion:146 Resp: 127712

Ion Ratio Lower Upper

146 100

111 44.3 22.9 68.7

148 62.3 31.6 94.7



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.240 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

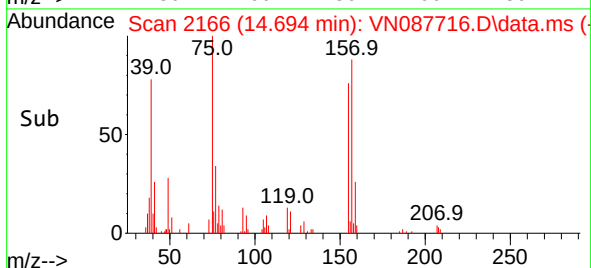
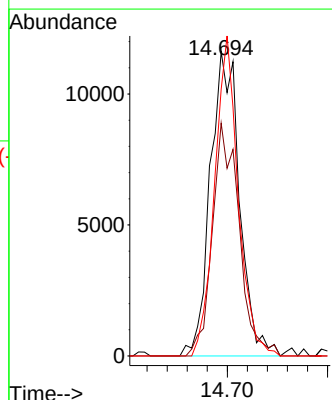
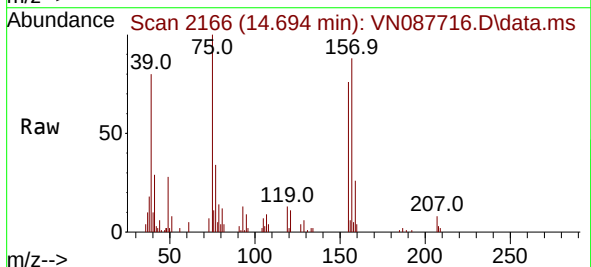
Tgt Ion: 75 Resp: 23453

Ion Ratio Lower Upper

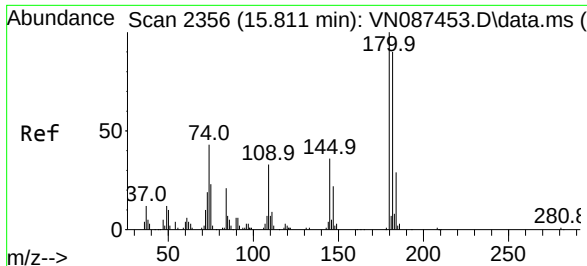
75 100

155 69.5 55.7 83.5

157 85.1 65.8 98.6



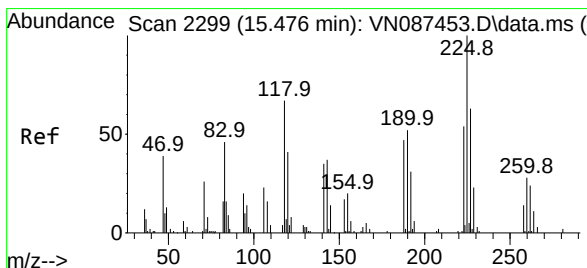
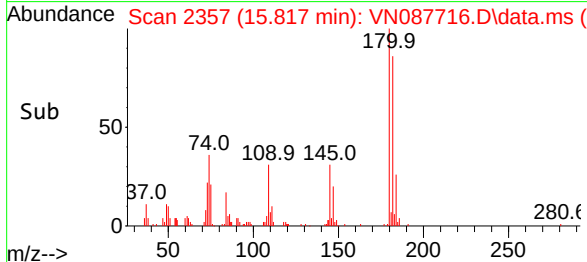
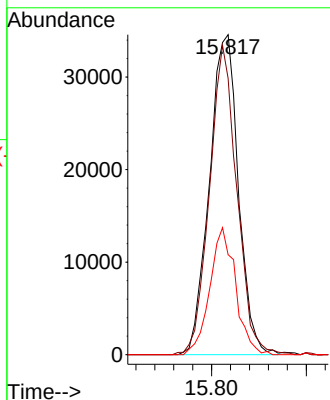
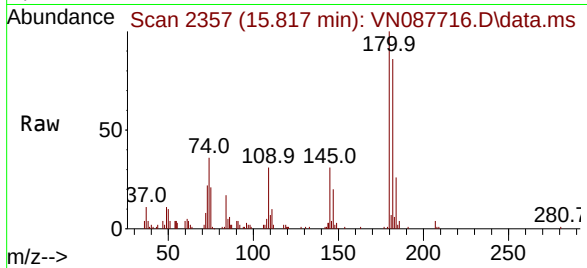




#89  
1,2,4-Trichlorobenzene  
Concen: 20.810 ug/l  
RT: 15.817 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

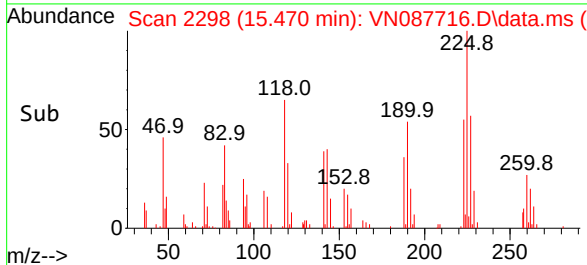
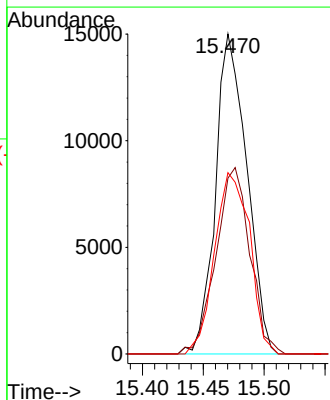
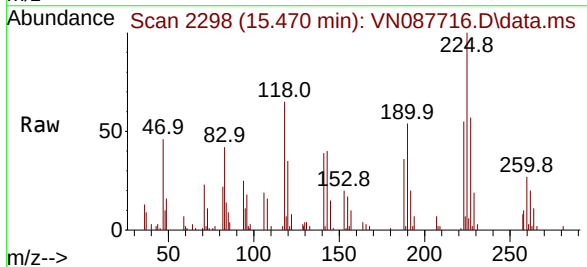
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

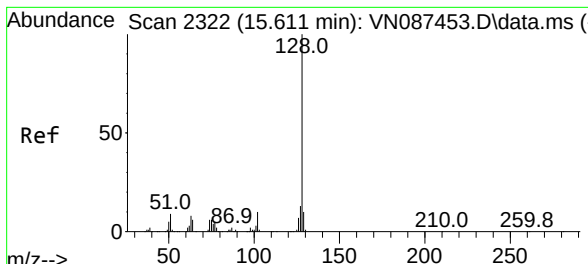
Tgt Ion:180 Resp: 73596  
Ion Ratio Lower Upper  
180 100  
182 91.2 75.0 112.4  
145 35.3 28.6 43.0



#90  
Hexachlorobutadiene  
Concen: 19.580 ug/l  
RT: 15.470 min Scan# 2298  
Delta R.T. -0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

Tgt Ion:225 Resp: 26926  
Ion Ratio Lower Upper  
225 100  
223 63.1 0.0 116.0  
227 63.4 0.0 127.0

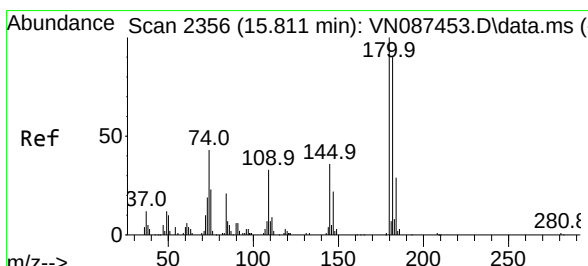
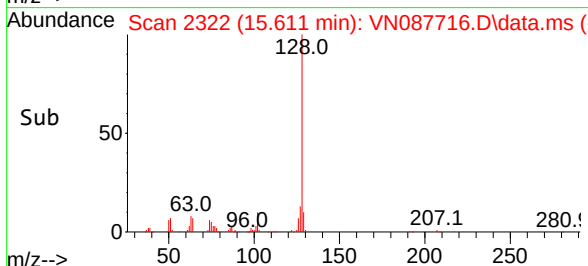
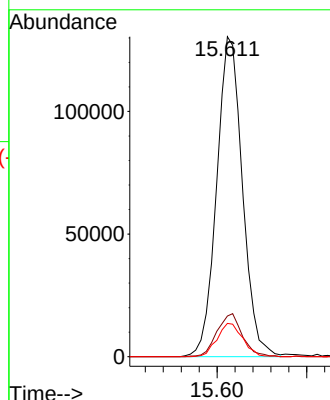
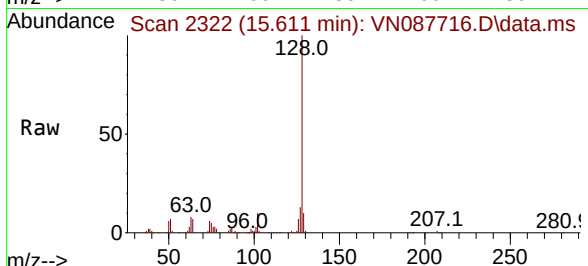




#91  
Naphthalene  
Concen: 19.306 ug/l  
RT: 15.611 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

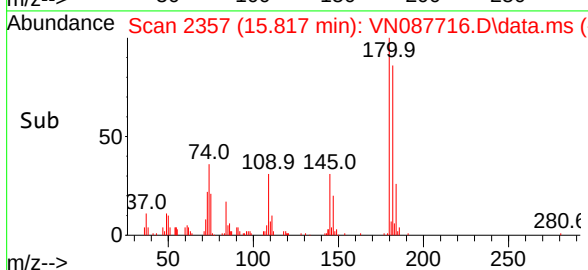
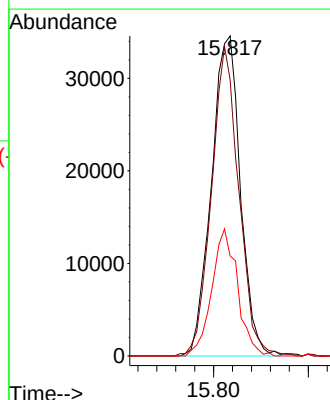
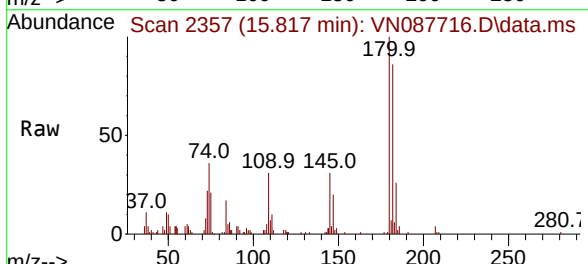
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0904WBSD01

|             |              |
|-------------|--------------|
| Tgt Ion:128 | Resp: 260334 |
| Ion Ratio   | Lower Upper  |
| 128 100     |              |
| 127 13.2    | 10.2 15.4    |
| 129 10.4    | 8.9 13.3     |



#92  
1,2,3-Trichlorobenzene  
Concen: 20.810 ug/l  
RT: 15.817 min Scan# 2357  
Delta R.T. 0.006 min  
Lab File: VN087716.D  
Acq: 04 Sep 2025 12:38

|             |             |
|-------------|-------------|
| Tgt Ion:180 | Resp: 73596 |
| Ion Ratio   | Lower Upper |
| 180 100     |             |
| 182 91.2    | 0.0 187.4   |
| 145 35.3    | 0.0 71.6    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDC00020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC00020EC

Quant Time: Sep 05 02:21:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 42111      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 209761     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 194705     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 105547     | 27.174   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 90.567%# |        |          |
| 60) 4-Bromofluorobenzene     | 12.823         | 95   | 95262      | 28.430   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 94.767%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 270343     | 30.176   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.600% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 51486      | 18.726   | ug/l   | 91       |
| 3) Chloromethane             | 2.383          | 50   | 53260      | 18.881   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.536          | 62   | 58000      | 19.386   | ug/l   | 98       |
| 5) Bromomethane              | 2.983          | 94   | 40951      | 25.287   | ug/l   | 88       |
| 6) Chloroethane              | 3.136          | 64   | 43117      | 22.349   | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 92972      | 21.592   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 36803      | 20.516   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 53320      | 24.284   | ug/l   | 90       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 53150      | 23.045   | ug/l   | 87       |
| 11) Methyl Iodide            | 4.583          | 142  | 25930      | 14.279   | ug/l   | 93       |
| 12) Methyl Acetate           | 5.018          | 43   | 92717      | 21.784   | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 77597      | 119.369  | ug/l   | 97       |
| 14) Acrylonitrile            | 5.706          | 53   | 172758     | 92.955   | ug/l   | 99       |
| 15) Acetone                  | 4.418          | 58   | 50531      | 95.158   | ug/l   | 75       |
| 16) Carbon Disulfide         | 4.712          | 76   | 125505     | 17.543   | ug/l   | 100      |
| 17) Allyl chloride           | 5.018          | 41   | 82620      | 17.575   | ug/l   | 96       |
| 18) Methylene Chloride       | 5.265          | 84   | 57389      | 19.328   | ug/l # | 81       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 51473      | 18.767   | ug/l   | 95       |
| 20) Diisopropyl ether        | 6.659          | 45   | 196352     | 18.335   | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 6.547          | 63   | 107573     | 19.433   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 62540      | 18.532   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 28636      | 36.260   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 185284     | 17.630   | ug/l # | 79       |
| 25) Chloroform               | 7.953          | 83   | 113358     | 19.618   | ug/l   | 94       |
| 26) Cyclohexane              | 8.241          | 56   | 79919      | 18.032   | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 71782      | 20.981   | ug/l   | 98       |
| 30) 2-Butanone               | 7.471          | 43   | 251215     | 99.616   | ug/l # | 95       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 88783      | 20.121   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 95339      | 21.850   | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 77163      | 21.287   | ug/l   | 94       |
| 34) Benzene                  | 8.588          | 78   | 230901     | 21.380   | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.765          | 41   | 50964      | 18.727   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 88217      | 20.210   | ug/l   | 99       |
| 37) Trichloroethene          | 9.330          | 130  | 53338      | 22.421   | ug/l # | 76       |
| 38) Methylcyclohexane        | 9.582          | 83   | 72850      | 18.355   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 60183      | 21.735   | ug/l   | 96       |
| 40) Dibromomethane           | 9.688          | 93   | 45432      | 21.868   | ug/l   | 98       |
| 41) Bromodichloromethane     | 9.871          | 83   | 92910      | 21.522   | ug/l   | 98       |
| 42) Vinyl Acetate            | 6.594          | 43   | 776716     | 93.526   | ug/l   | 99       |

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 Data File : VN087723.D  
 Acq On : 04 Sep 2025 15:21  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

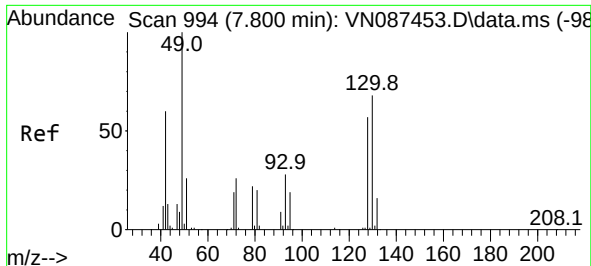
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Quant Time: Sep 05 02:21:57 2025  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 96931    | 19.896  | ug/l   | 100      |
| 44) Isopropyl Acetate         | 8.671  | 43   | 157951   | 19.126  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.677  | 88   | 18119    | 344.161 | ug/l # | 89       |
| 46) Methyl methacrylate       | 9.665  | 41   | 74792    | 19.186  | ug/l   | 98       |
| 47) n-amyl Acetate            | 12.518 | 43   | 6583     | 1.443   | ug/l # | 57       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 91435    | 19.468  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 94752    | 20.047  | ug/l   | 90       |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 58762    | 22.387  | ug/l   | 99       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 85505    | 18.496  | ug/l   | 89       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 100640   | 21.281  | ug/l   | 97       |
| 53) Dibromochloromethane      | 11.335 | 129  | 67293    | 22.199  | ug/l   | 96       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 59165    | 21.233  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 226909   | 93.240  | ug/l   | 99       |
| 56) Bromoform                 | 12.553 | 173  | 40935    | 20.416  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 509673   | 101.757 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 322095   | 94.645  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 42539    | 22.426  | ug/l   | 91       |
| 62) Toluene                   | 10.612 | 91   | 246003   | 20.471  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 153070   | 20.730  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 56409    | 21.728  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 261043   | 19.489  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.047 | 106  | 193984   | 39.456  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 96487    | 19.948  | ug/l   | 93       |
| 69) Styrene                   | 12.388 | 104  | 164210   | 19.883  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.671 | 105  | 240721   | 19.589  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 91191    | 21.658  | ug/l   | 96       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 119495   | 30.465  | ug/l   | 53       |
| 73) Bromobenzene              | 12.959 | 156  | 59076    | 20.738  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 311880   | 20.322  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 186992   | 19.808  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 210137   | 19.972  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 27859    | 18.763  | ug/l   | 95       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 191634   | 20.031  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 176182   | 19.861  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 215522   | 20.499  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 257489   | 19.938  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 212506   | 19.818  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 119016   | 21.940  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 121344   | 22.064  | ug/l   | 95       |
| 85) n-Butylbenzene            | 14.035 | 91   | 204421   | 19.485  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.306 | 117  | 43724    | 20.881  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 116301   | 22.460  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 20419    | 19.144  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 63971    | 20.672  | ug/l   | 96       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 21826    | 18.138  | ug/l   | 93       |
| 91) Naphthalene               | 15.611 | 128  | 219921   | 18.638  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 63971    | 20.672  | ug/l   | 96       |

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

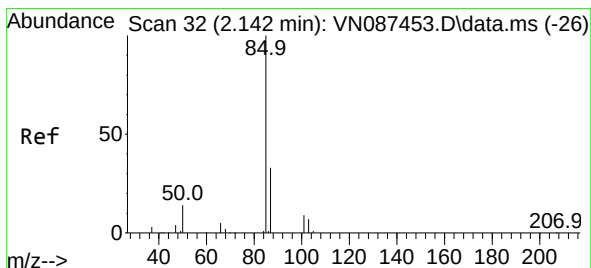
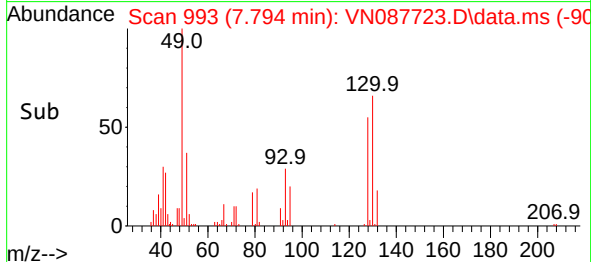
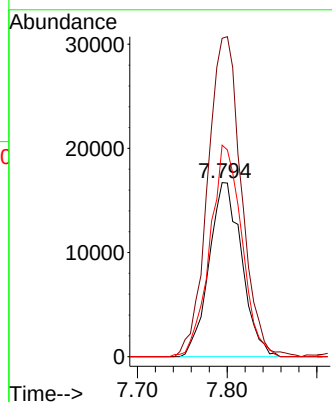
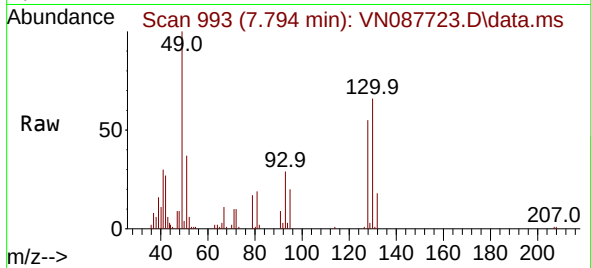




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

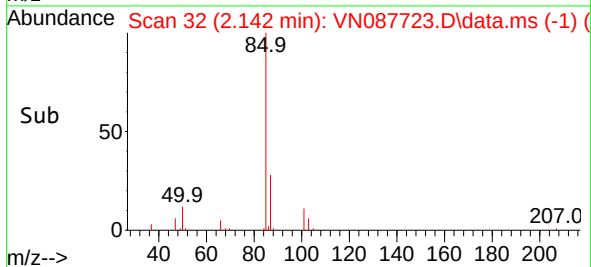
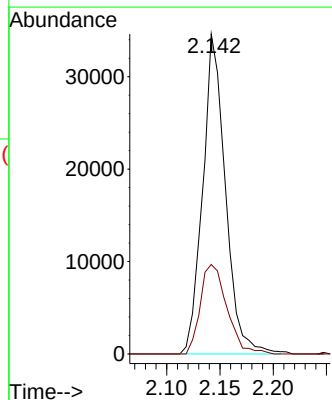
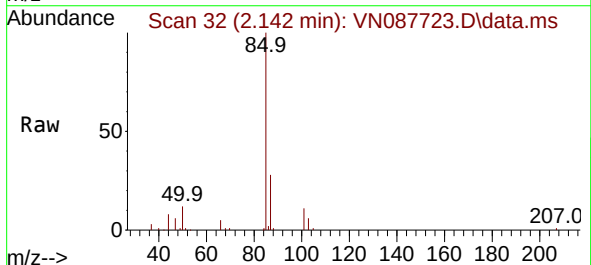
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ClientSampleId :  
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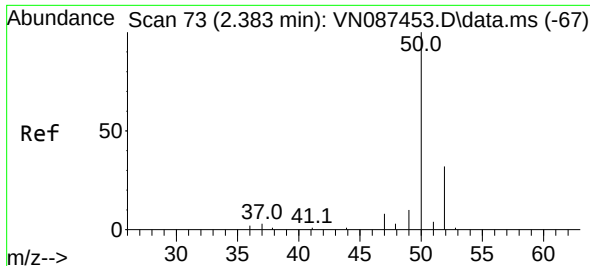
Tgt Ion:128 Resp: 42111  
Ion Ratio Lower Upper  
128 100  
49 190.1 0.0 494.8  
130 119.3 0.0 321.5



#2  
Dichlorodifluoromethane  
Concen: 18.726 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 85 Resp: 51486  
Ion Ratio Lower Upper  
85 100  
87 28.0 16.4 49.2

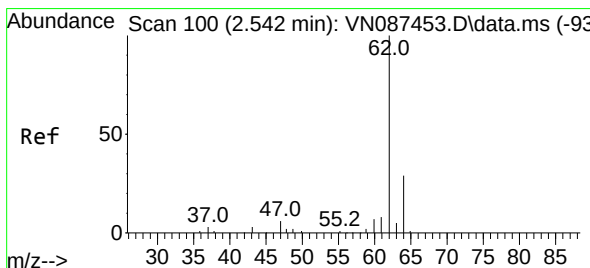
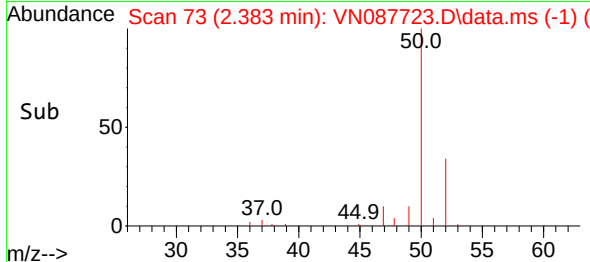
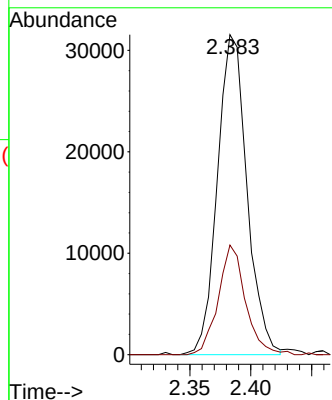
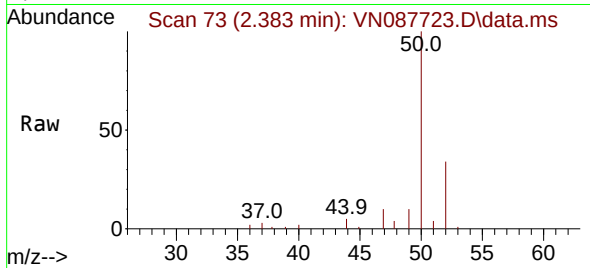




#3  
Chloromethane  
Concen: 18.881 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

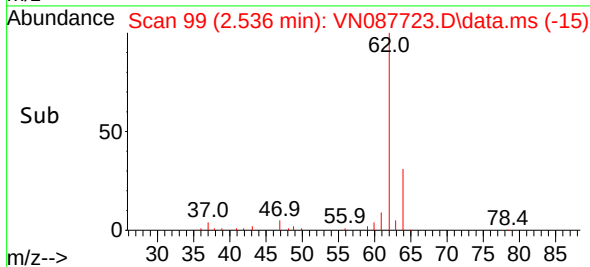
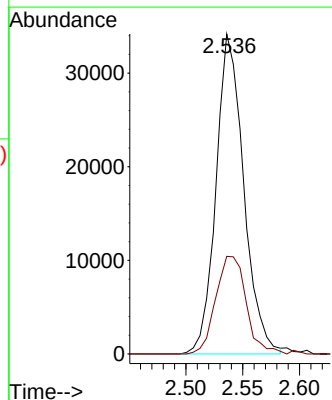
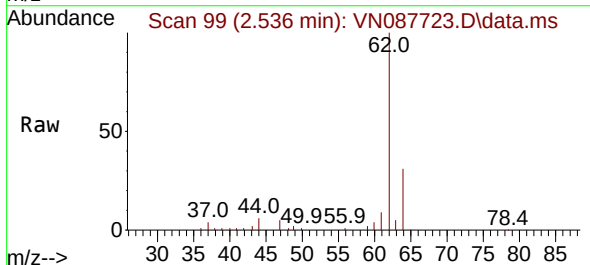
Instrument :  
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ClientSampleId :  
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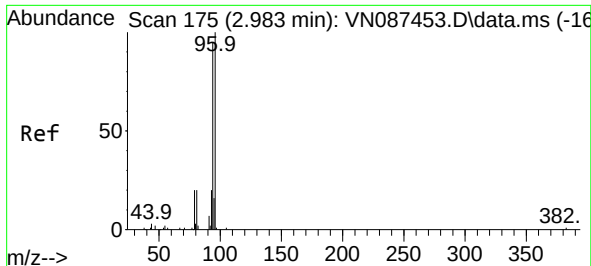
Tgt Ion: 50 Resp: 53260  
Ion Ratio Lower Upper  
50 100  
52 34.2 25.8 38.6



#4  
Vinyl Chloride  
Concen: 19.386 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 62 Resp: 58000  
Ion Ratio Lower Upper  
62 100  
64 30.5 23.4 35.2

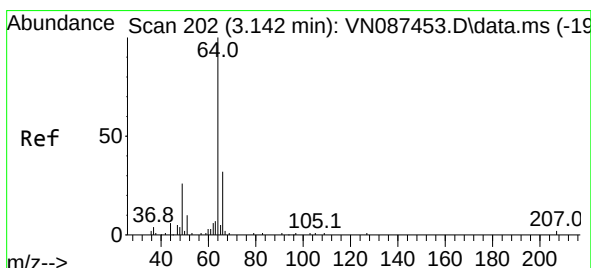
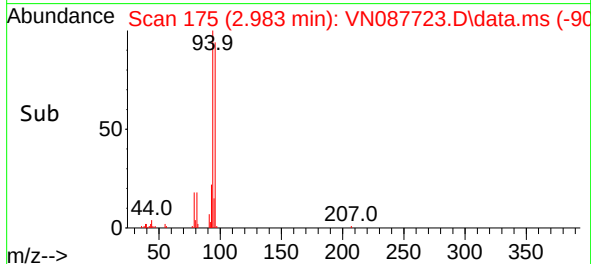
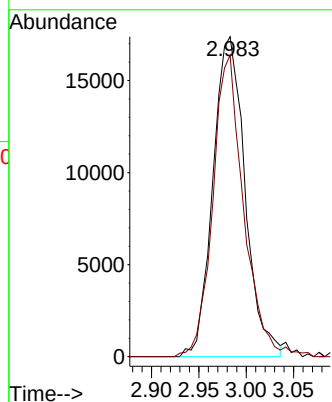
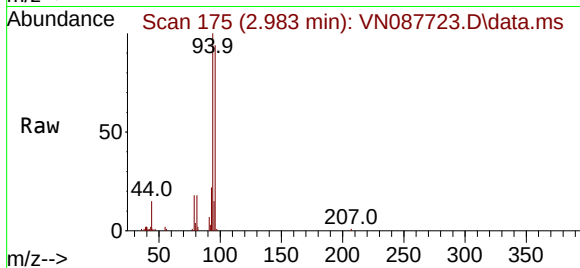




#5  
Bromomethane  
Concen: 25.287 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

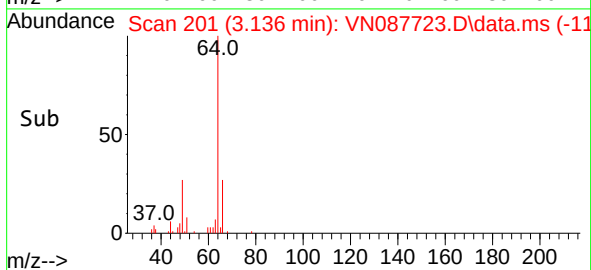
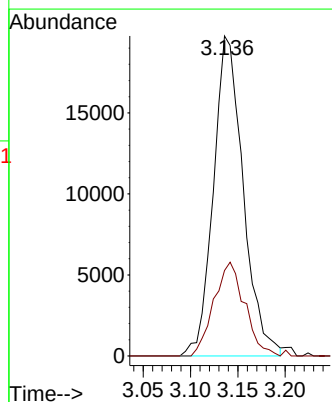
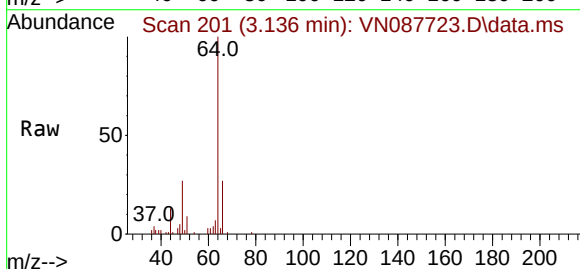
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion: 94 Resp: 40951  
Ion Ratio Lower Upper  
94 100  
96 93.1 84.2 126.4

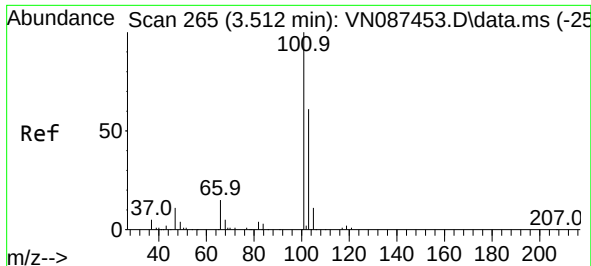


#6  
Chloroethane  
Concen: 22.349 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 64 Resp: 43117  
Ion Ratio Lower Upper  
64 100  
66 26.7 25.4 38.0



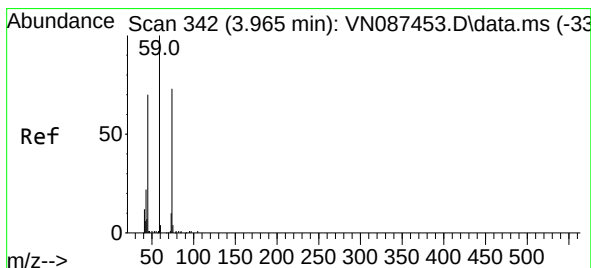
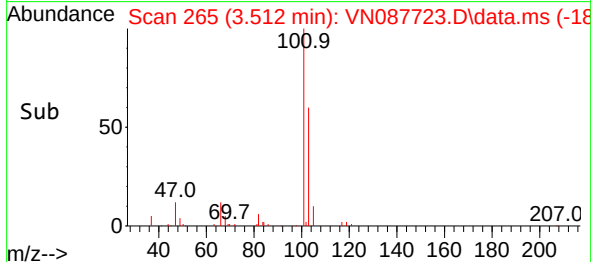
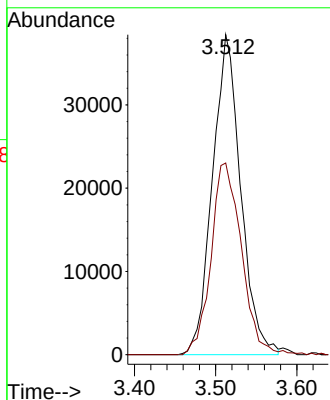
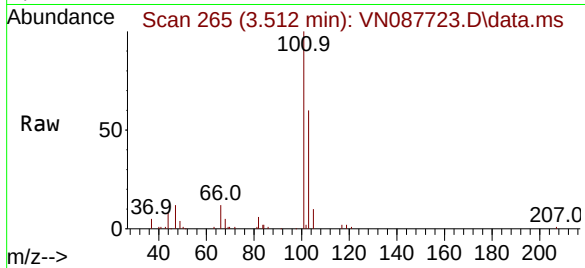




#7  
 Trichlorofluoromethane  
 Concen: 21.592 ug/l  
 RT: 3.512 min Scan# 265  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21

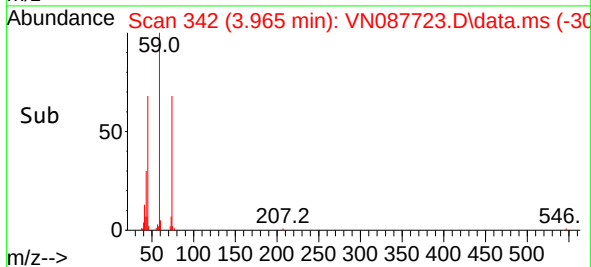
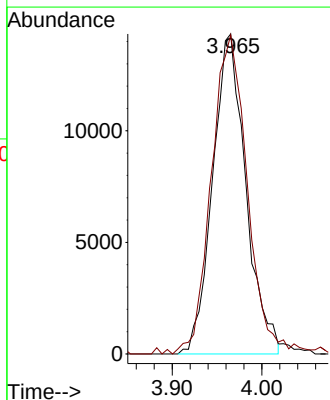
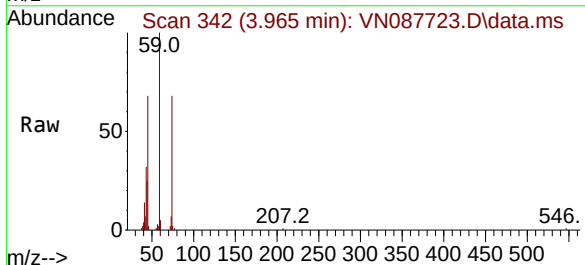
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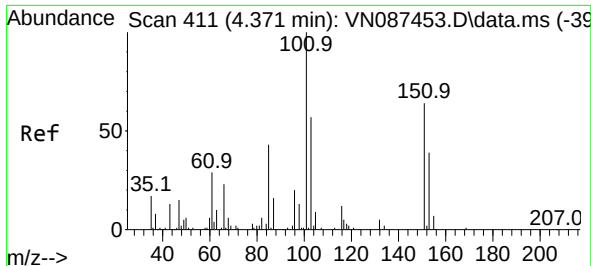
Tgt Ion:101 Resp: 92972  
 Ion Ratio Lower Upper  
 101 100  
 103 59.9 49.2 73.8



#8  
 Diethyl Ether  
 Concen: 20.516 ug/l  
 RT: 3.965 min Scan# 342  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21

Tgt Ion: 74 Resp: 36803  
 Ion Ratio Lower Upper  
 74 100  
 45 107.0 20.1 180.9

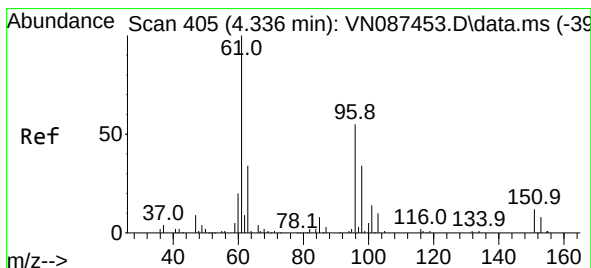
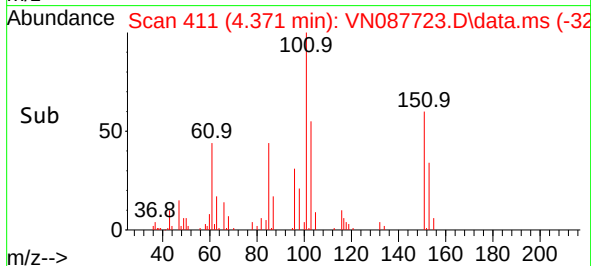
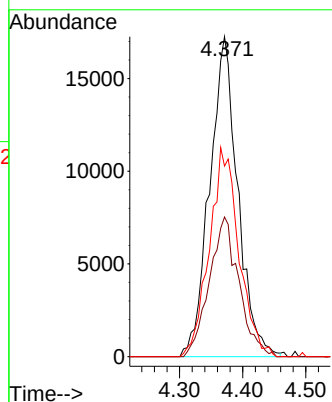
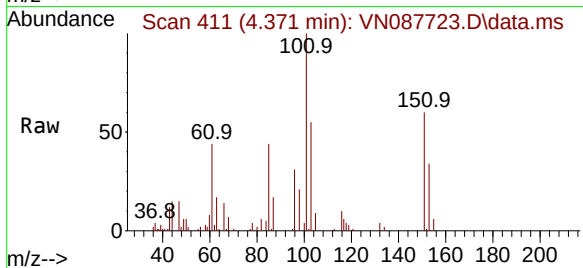




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 24.284 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

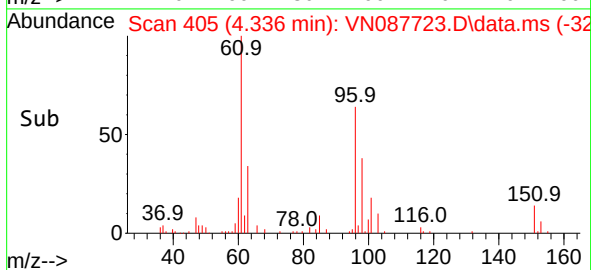
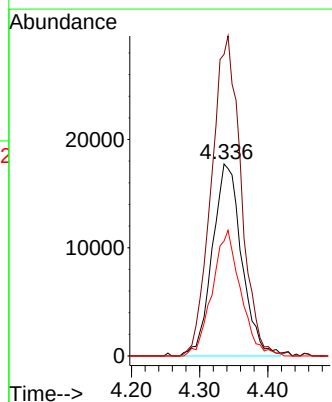
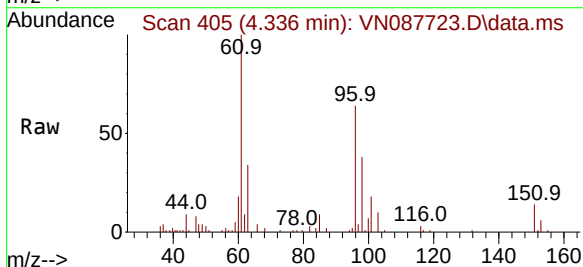
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MSVOA\_N  
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VSTDCCC020EC

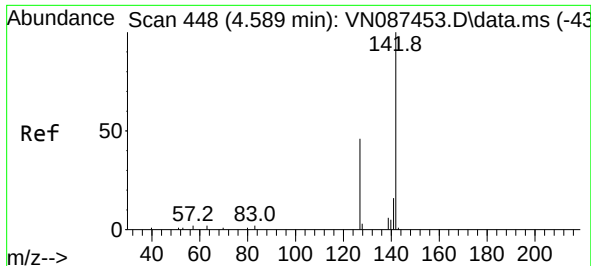
Tgt Ion:101 Resp: 53320  
Ion Ratio Lower Upper  
101 100  
85 45.8 0.0 57.0  
151 67.9 0.0 134.2



#10  
1,1-Dichloroethene  
Concen: 23.045 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 96 Resp: 53150  
Ion Ratio Lower Upper  
96 100  
61 157.1 144.2 216.4  
98 59.8 49.7 74.5

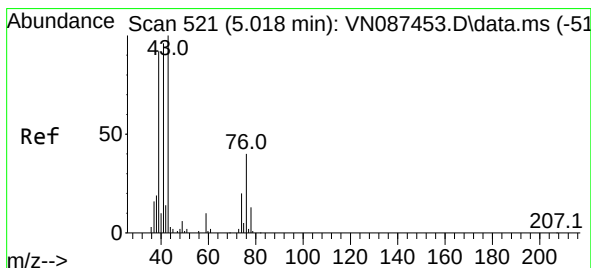
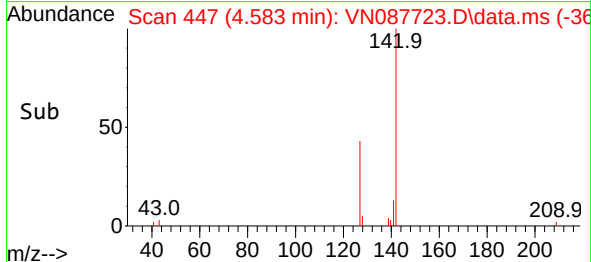
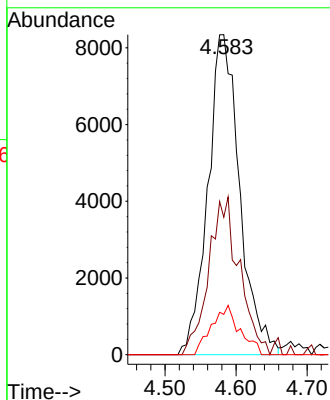
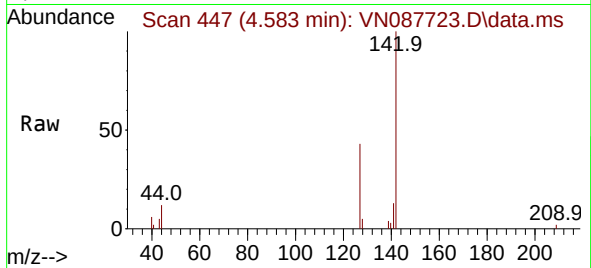




#11  
Methyl Iodide  
Concen: 14.279 ug/l  
RT: 4.583 min Scan# 448  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

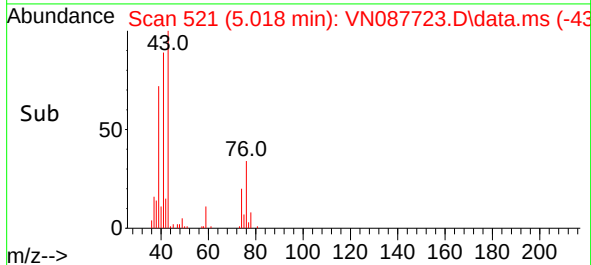
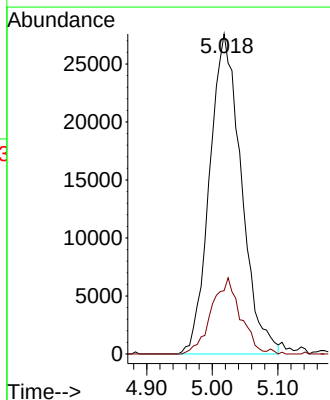
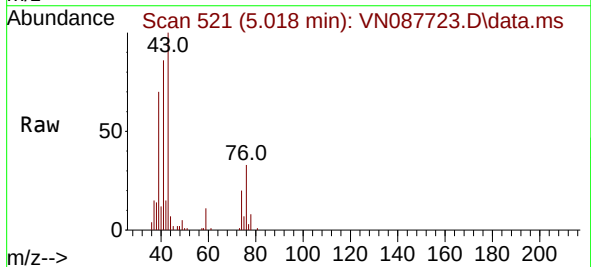
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

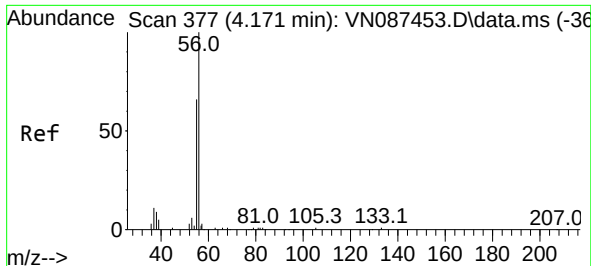
Tgt Ion:142 Resp: 25930  
Ion Ratio Lower Upper  
142 100  
127 40.7 22.9 68.7  
141 12.7 7.7 23.1



#12  
Methyl Acetate  
Concen: 21.784 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 92717  
Ion Ratio Lower Upper  
43 100  
74 20.1 16.0 24.0





#13

Acrolein

Concen: 119.369 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

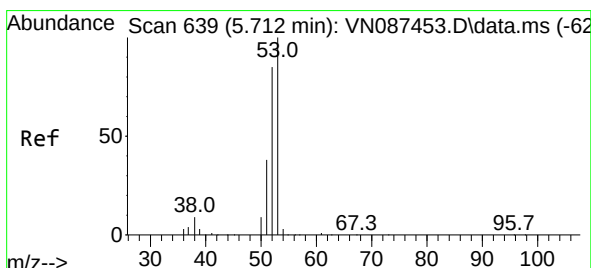
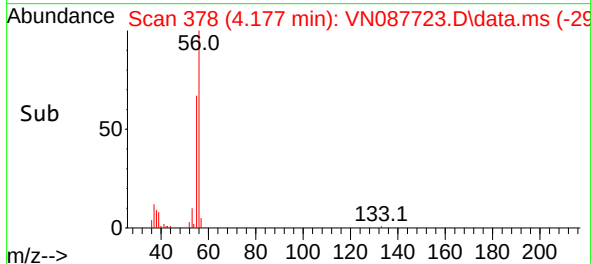
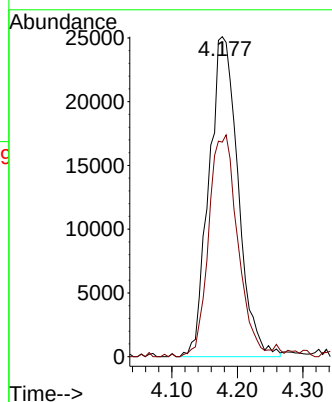
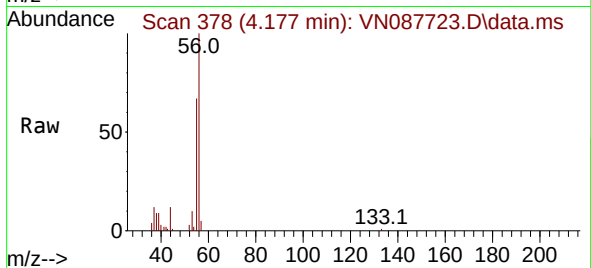
VSTDCCC020EC

Tgt Ion: 56 Resp: 77597

Ion Ratio Lower Upper

56 100

55 68.8 57.4 86.0



#14

Acrylonitrile

Concen: 92.955 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

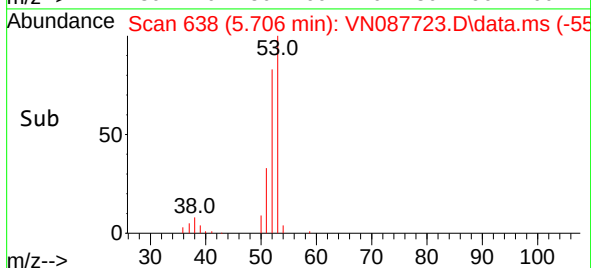
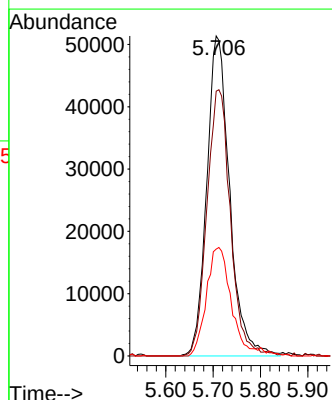
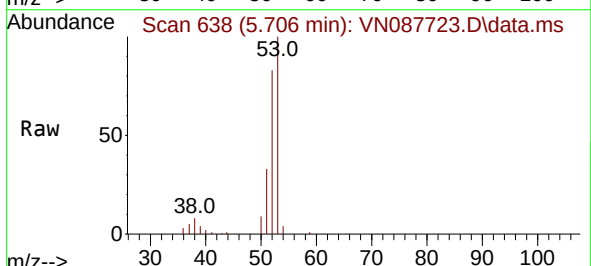
Tgt Ion: 53 Resp: 172758

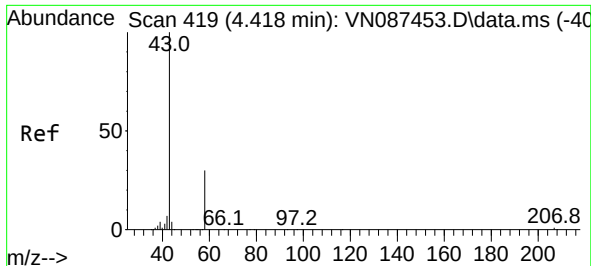
Ion Ratio Lower Upper

53 100

52 84.6 42.4 127.2

51 35.9 18.5 55.5

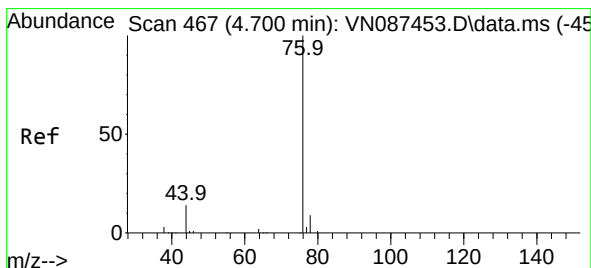
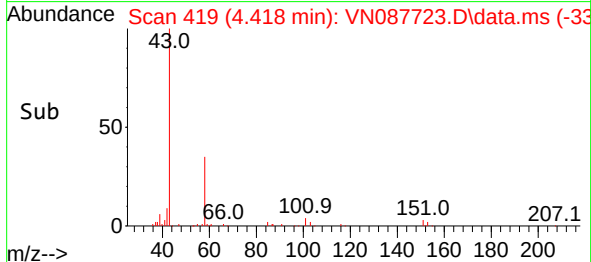
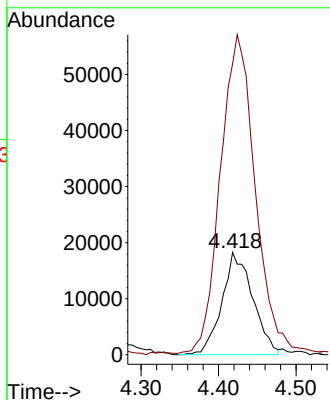
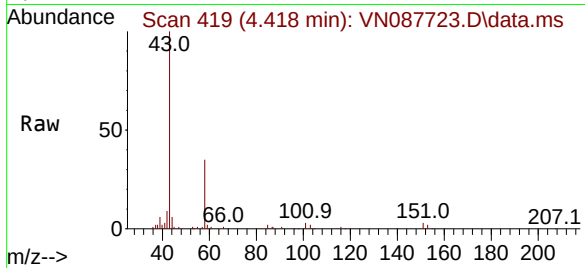




#15  
Acetone  
Concen: 95.158 ug/l  
RT: 4.418 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

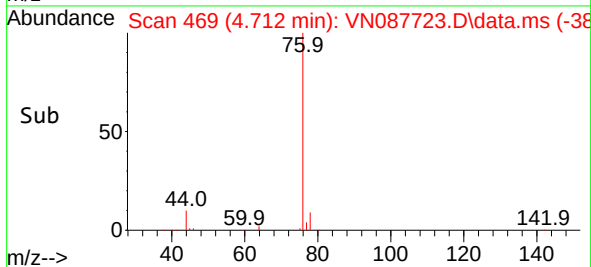
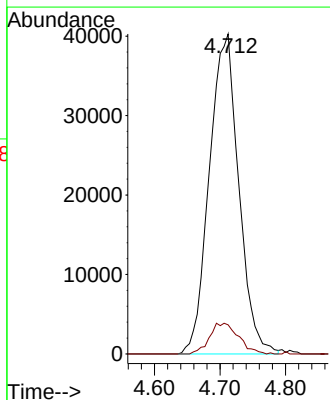
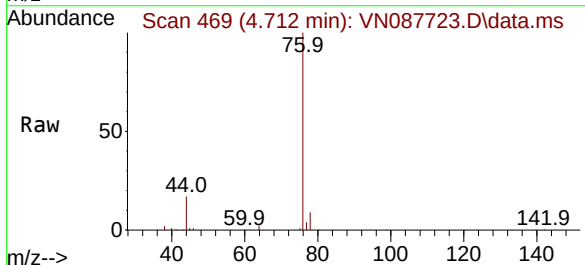
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

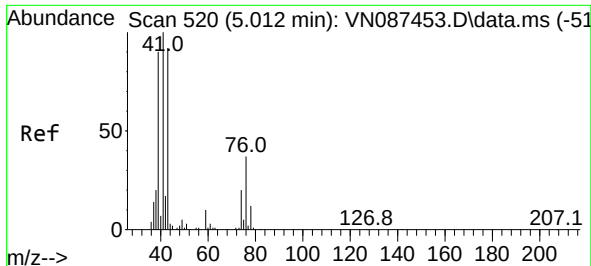
Tgt Ion: 58 Resp: 50531  
Ion Ratio Lower Upper  
58 100  
43 283.2 268.9 403.3



#16  
Carbon Disulfide  
Concen: 17.543 ug/l  
RT: 4.712 min Scan# 469  
Delta R.T. 0.012 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 125505  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.1 10.7

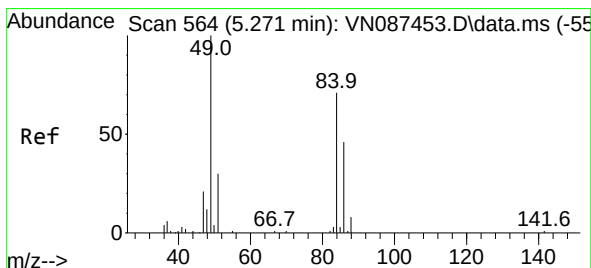
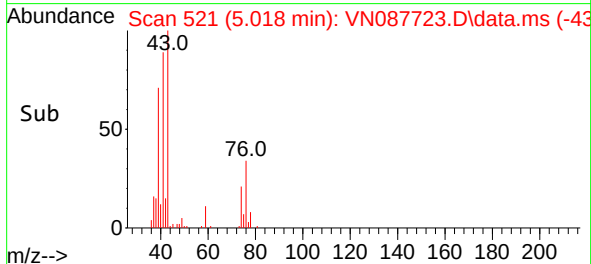
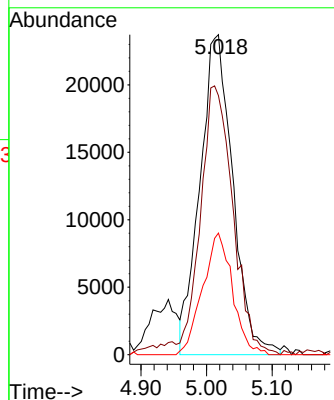
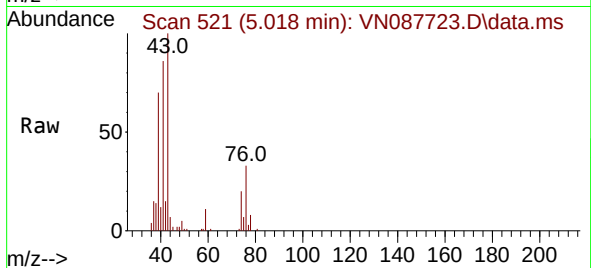




#17  
Allyl chloride  
Concen: 17.575 ug/l  
RT: 5.018 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

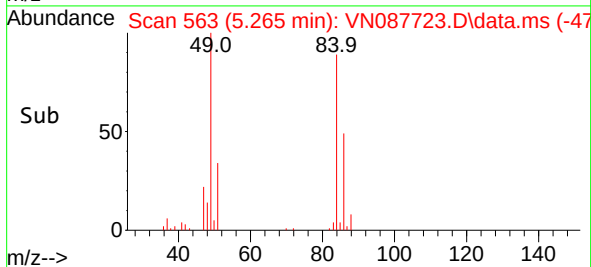
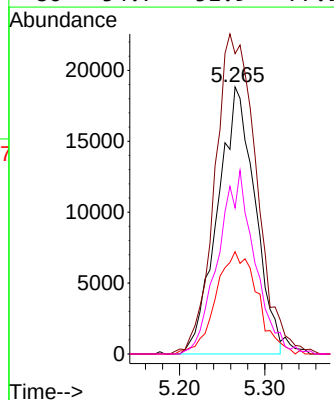
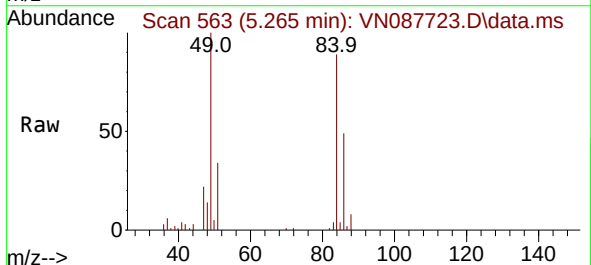
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

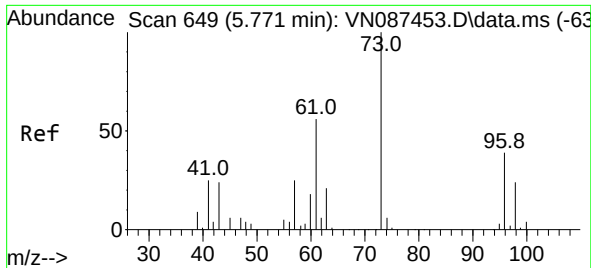
Tgt Ion: 41 Resp: 82620  
Ion Ratio Lower Upper  
41 100  
39 82.2 42.4 127.2  
76 38.6 16.9 50.6



#18  
Methylene Chloride  
Concen: 19.328 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 84 Resp: 57389  
Ion Ratio Lower Upper  
84 100  
49 110.6 112.9 169.3#  
51 37.1 33.8 50.8  
86 54.7 51.9 77.9

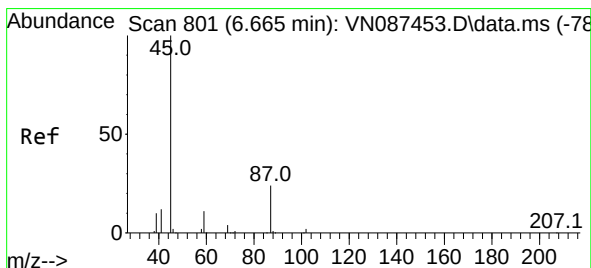
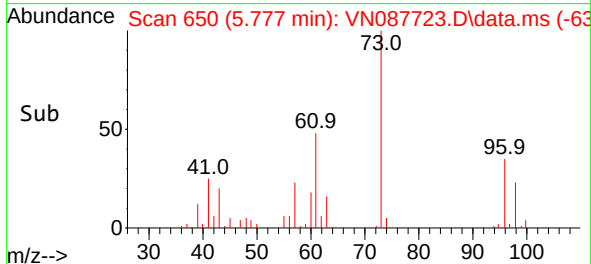
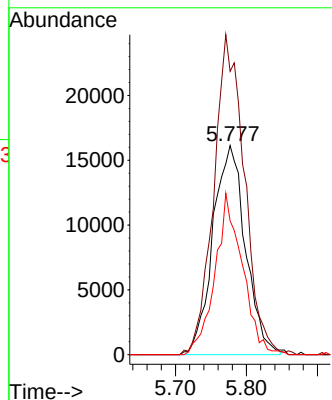
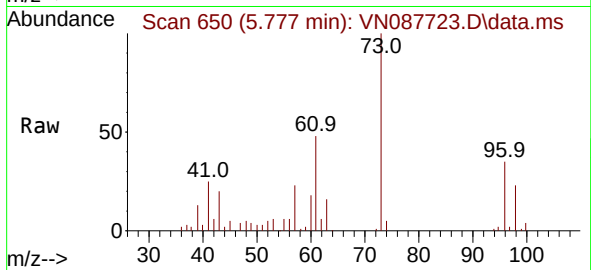




#19  
trans-1,2-Dichloroethene  
Concen: 18.767 ug/l  
RT: 5.777 min Scan# 614  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

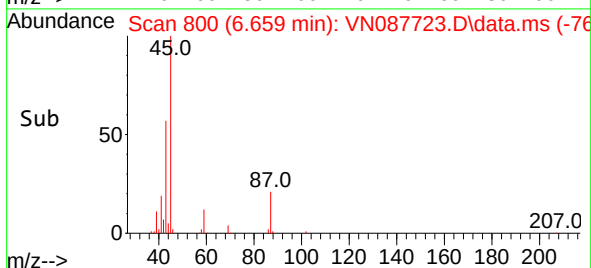
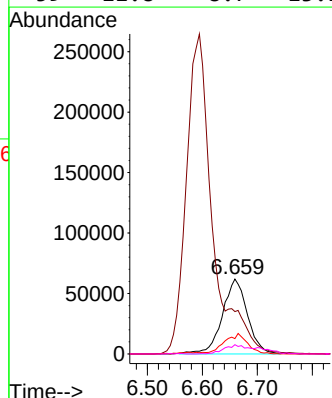
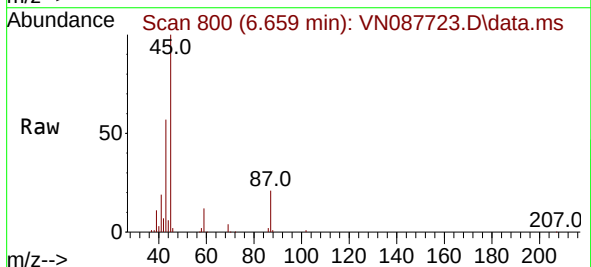
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

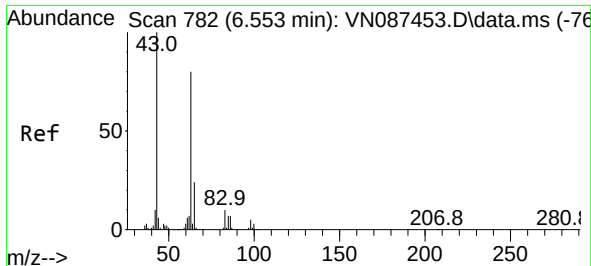
Tgt Ion: 96 Resp: 51473  
Ion Ratio Lower Upper  
96 100  
61 135.5 114.2 171.4  
98 64.0 48.7 73.1



#20  
Diisopropyl ether  
Concen: 18.335 ug/l  
RT: 6.659 min Scan# 800  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 45 Resp: 196352  
Ion Ratio Lower Upper  
45 100  
43 54.6 44.7 67.1  
87 20.7 20.2 30.2  
59 11.8 8.7 13.1





#21

1,1-Dichloroethane

Concen: 19.433 ug/l

RT: 6.547 min Scan# 781

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

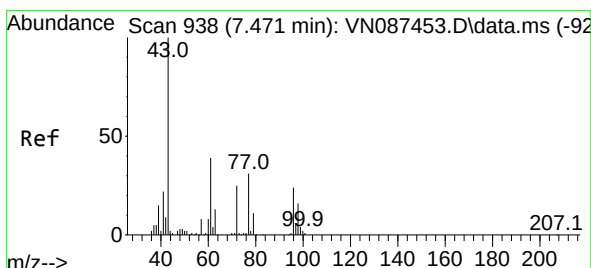
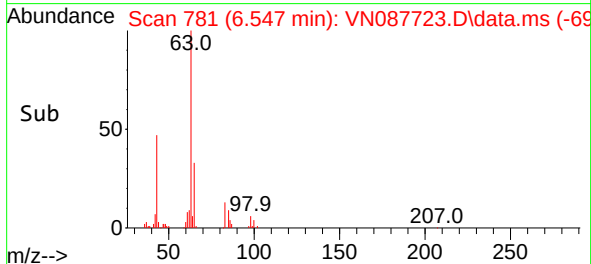
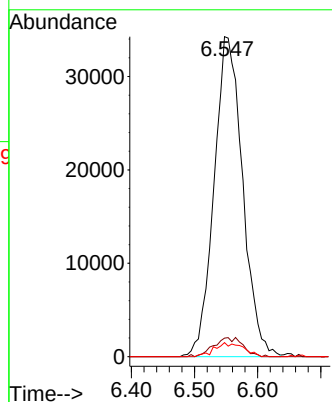
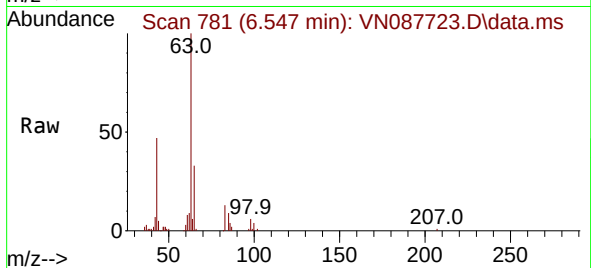
Tgt Ion: 63 Resp: 107573

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

100 4.4 1.9 5.7



#22

cis-1,2-Dichloroethene

Concen: 18.532 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

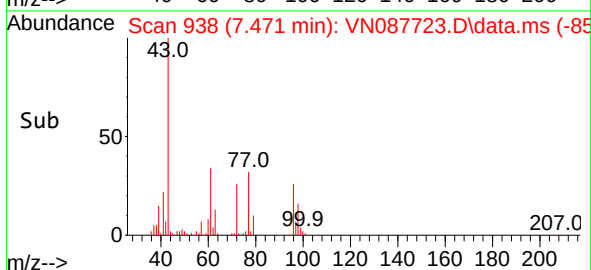
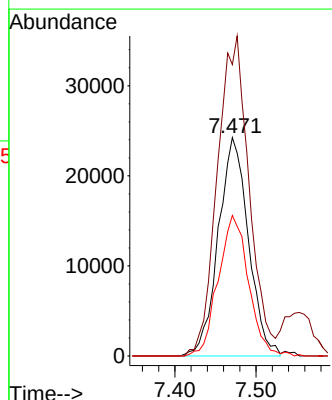
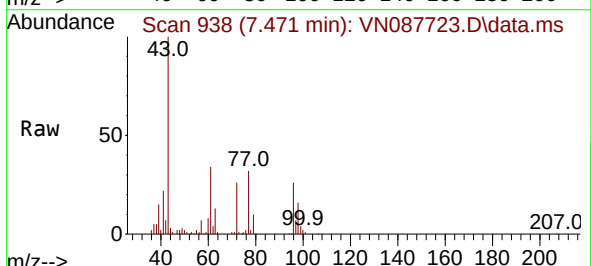
Tgt Ion: 96 Resp: 62540

Ion Ratio Lower Upper

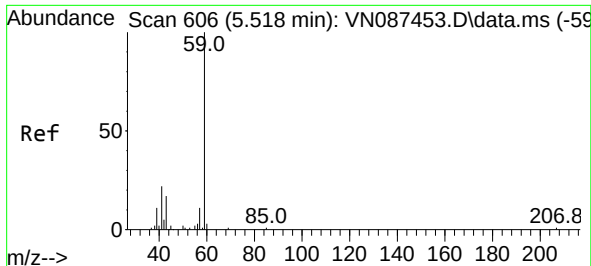
96 100

61 154.5 126.6 190.0

98 64.2 50.9 76.3



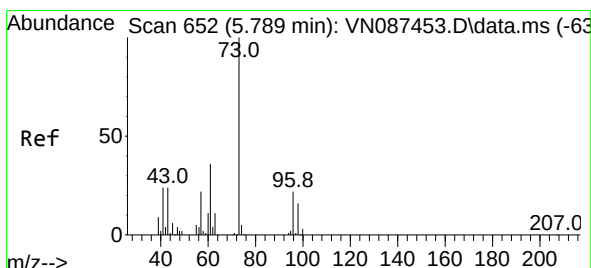
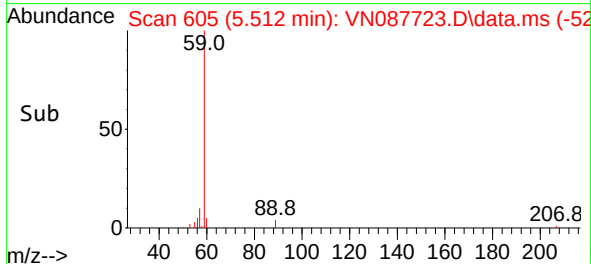
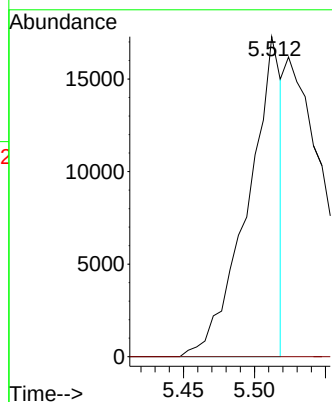
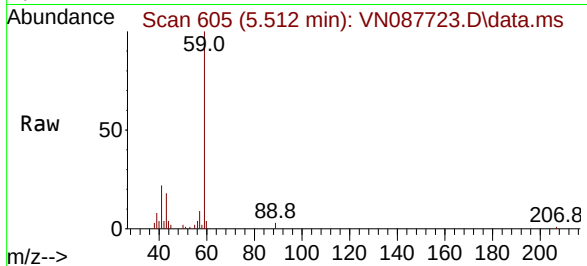




#23  
tert-Butyl Alcohol  
Concen: 36.260 ug/l  
RT: 5.512 min Scan# 606  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

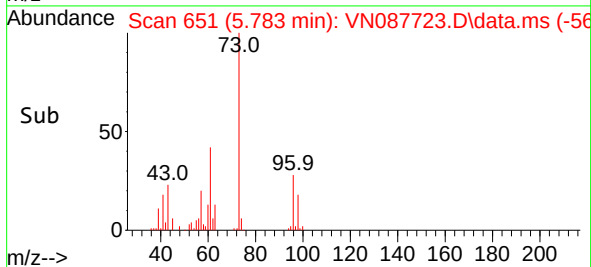
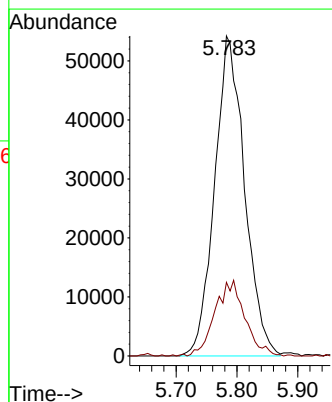
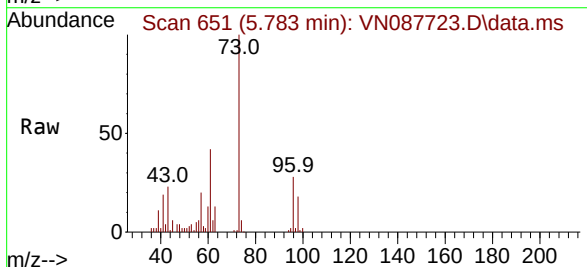
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

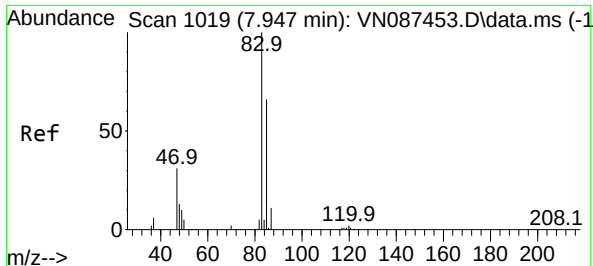
Tgt Ion: 59 Resp: 28636  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#24  
Methyl tert-Butyl Ether  
Concen: 17.630 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 73 Resp: 185284  
Ion Ratio Lower Upper  
73 100  
43 14.4 19.9 29.9#





#25

Chloroform

Concen: 19.618 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

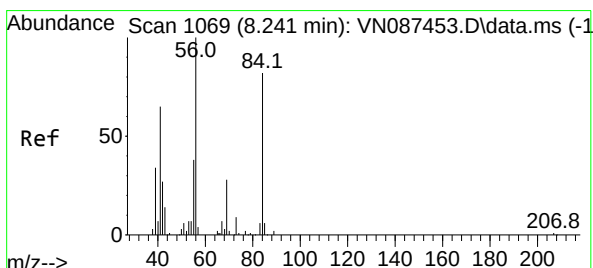
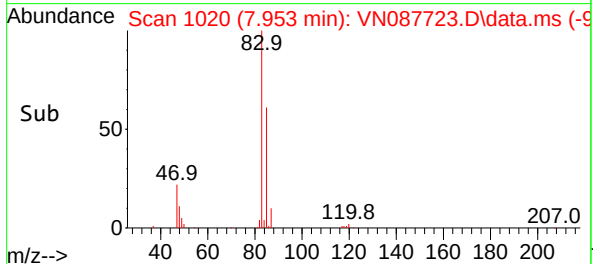
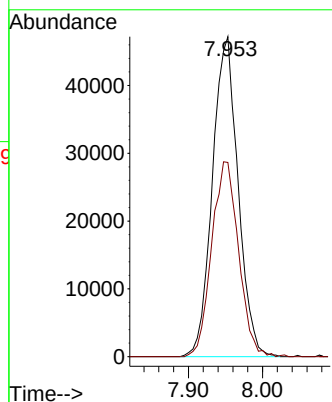
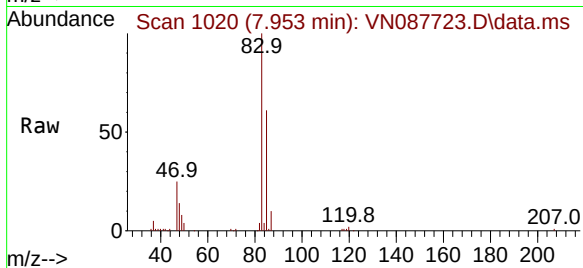
VSTDCCC020EC

Tgt Ion: 83 Resp: 113358

Ion Ratio Lower Upper

83 100

85 60.7 52.6 78.8



#26

Cyclohexane

Concen: 18.032 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

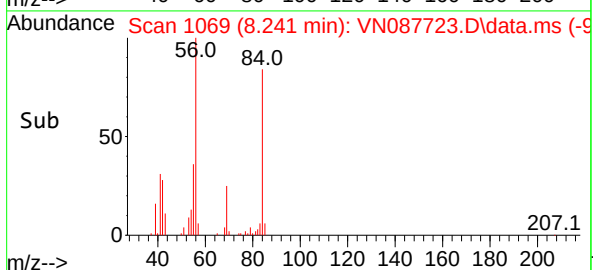
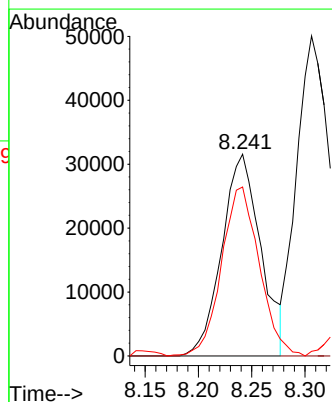
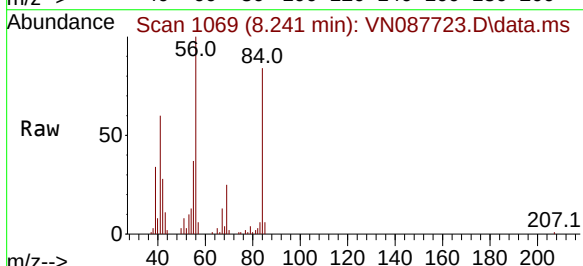
Tgt Ion: 56 Resp: 79919

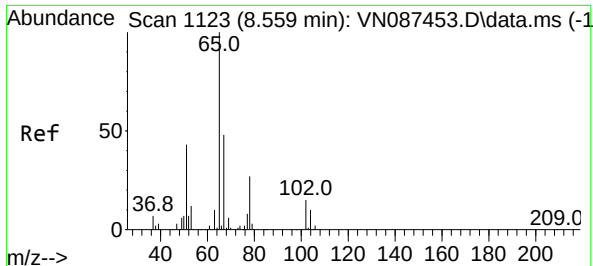
Ion Ratio Lower Upper

56 100

89 0.0 2.3 3.5#

84 81.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.174 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

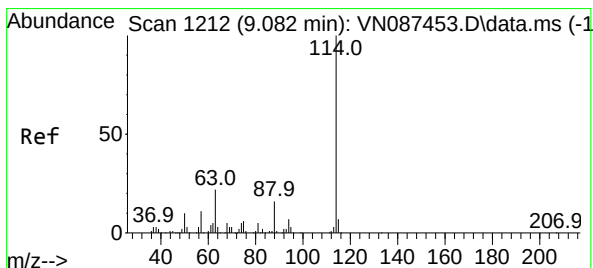
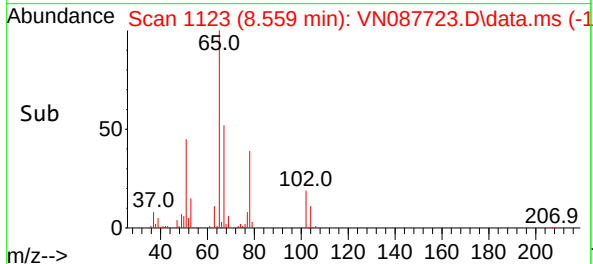
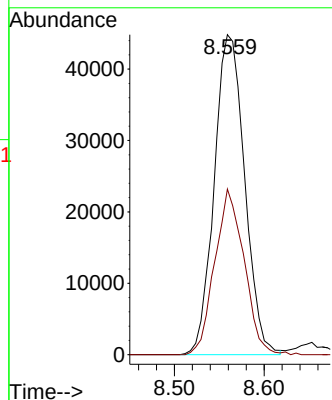
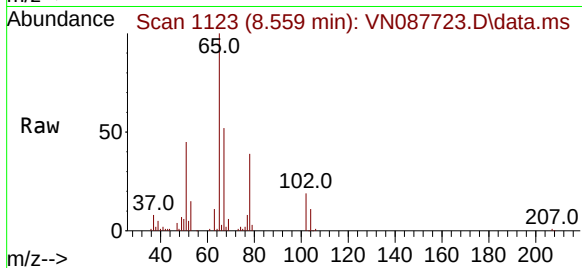
VSTDCCC020EC

Tgt Ion: 65 Resp: 105547

Ion Ratio Lower Upper

65 100

67 49.8 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

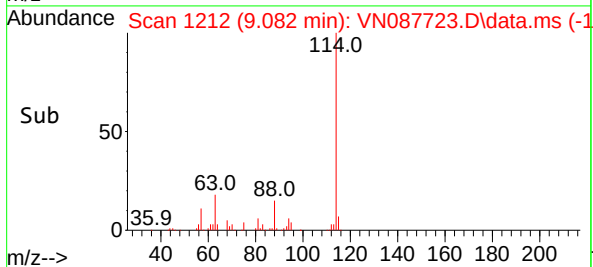
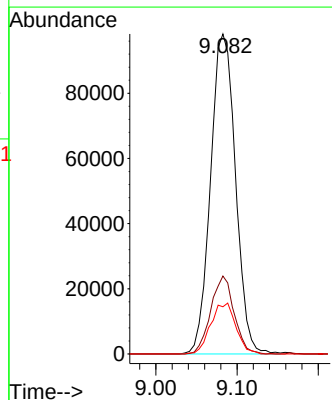
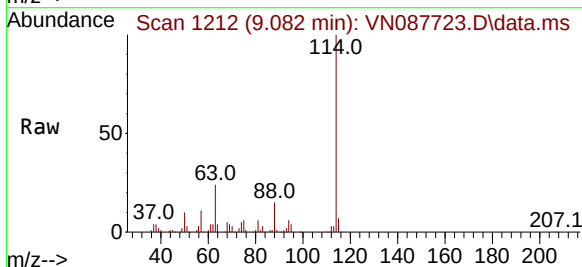
Tgt Ion: 114 Resp: 209761

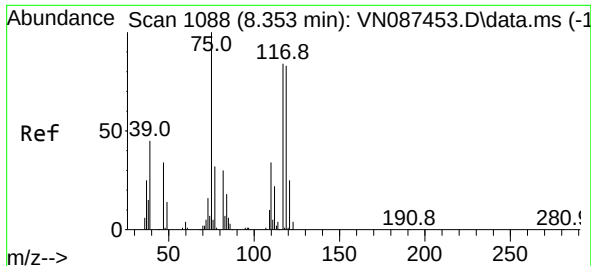
Ion Ratio Lower Upper

114 100

63 22.8 18.9 28.3

88 16.0 13.1 19.7

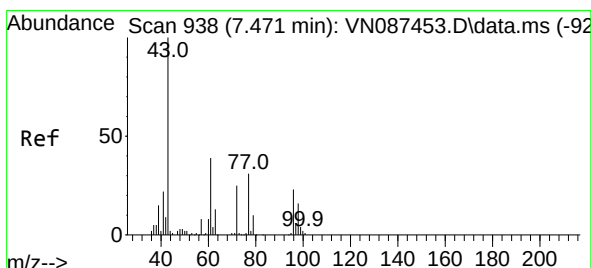
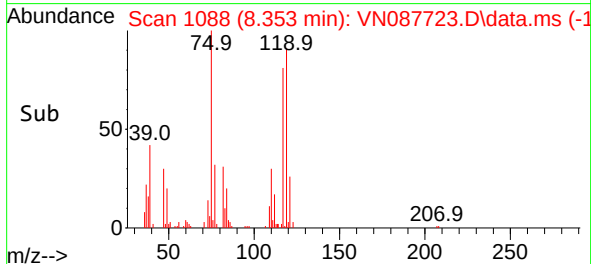
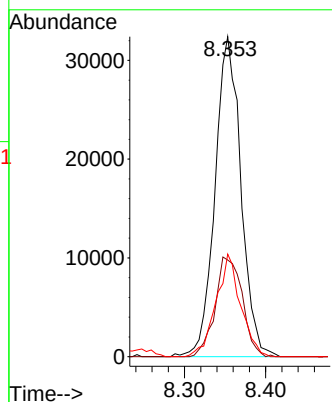
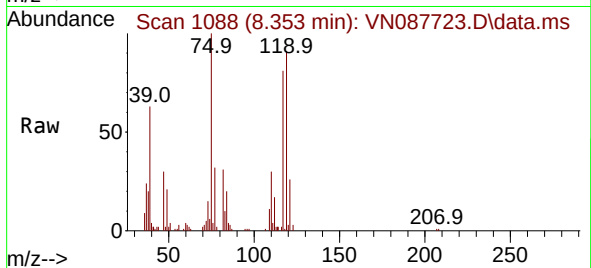




#29  
1,1-Dichloropropene  
Concen: 20.981 ug/l  
RT: 8.353 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

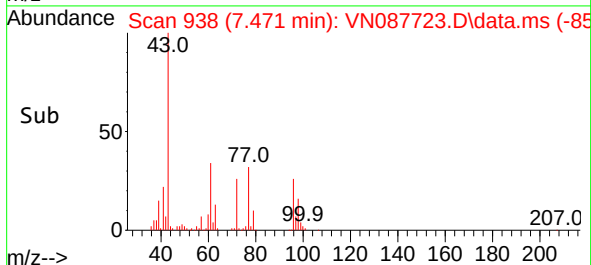
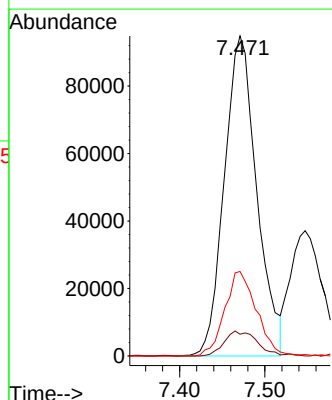
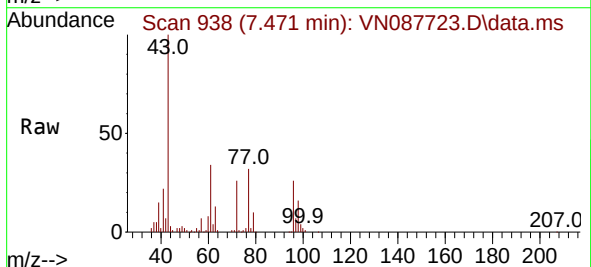
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

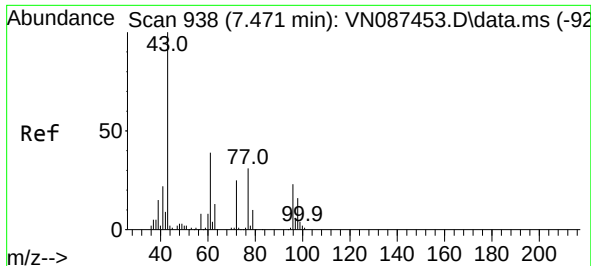
Tgt Ion: 75 Resp: 71782  
Ion Ratio Lower Upper  
75 100  
110 32.5 0.0 65.8  
77 30.4 0.0 63.6



#30  
2-Butanone  
Concen: 99.616 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 251215  
Ion Ratio Lower Upper  
43 100  
57 4.1 6.6 9.8#  
72 25.8 19.7 29.5





#31

2,2-Dichloropropane

Concen: 20.121 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

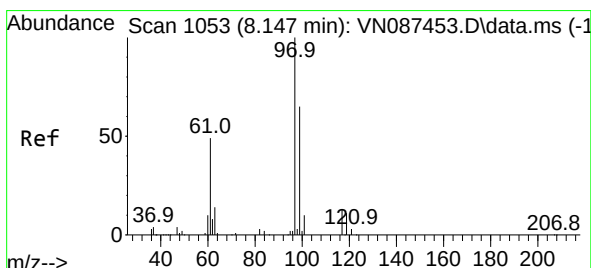
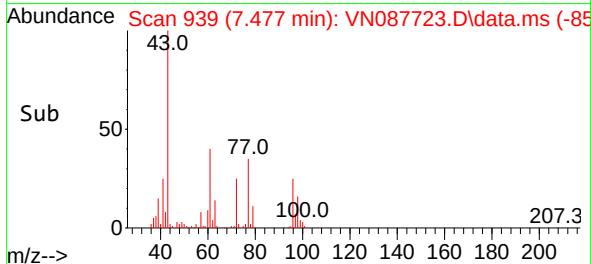
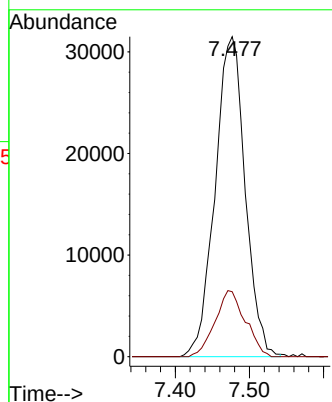
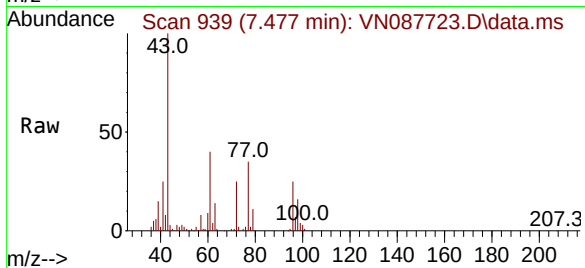
VSTDCCC020EC

Tgt Ion: 77 Resp: 88783

Ion Ratio Lower Upper

77 100

97 20.7 16.7 25.1



#32

1,1,1-Trichloroethane

Concen: 21.850 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

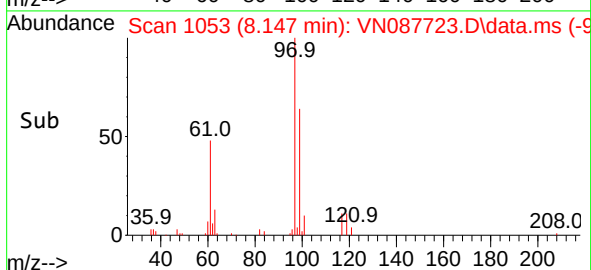
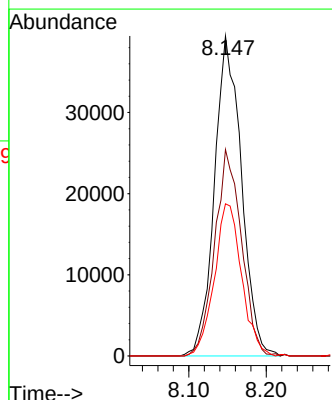
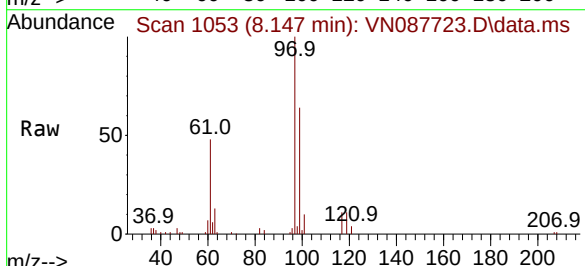
Tgt Ion: 97 Resp: 95339

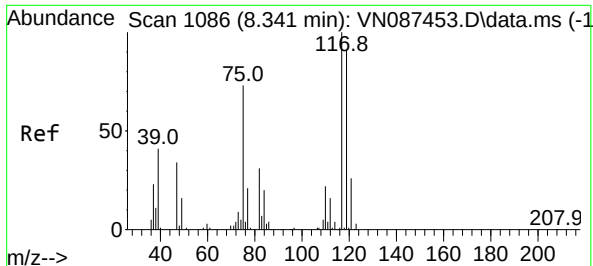
Ion Ratio Lower Upper

97 100

99 63.9 53.0 79.6

61 48.1 40.6 61.0

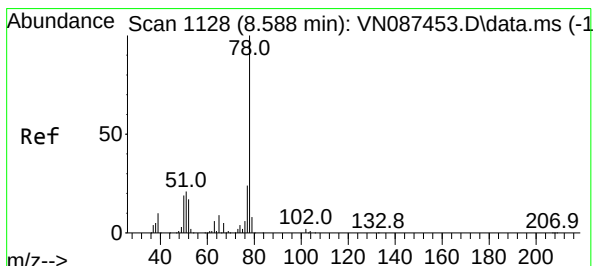
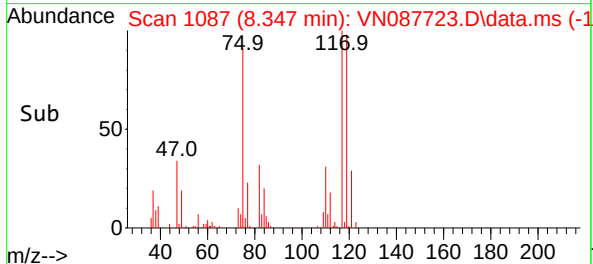
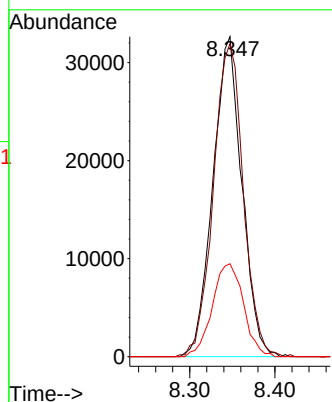
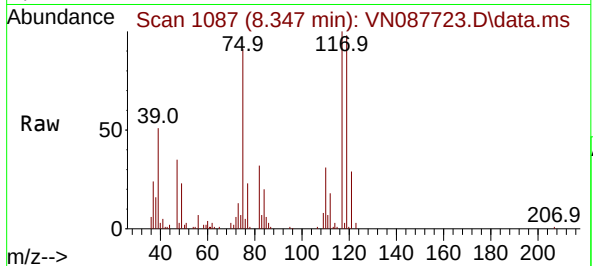




#33  
Carbon Tetrachloride  
Concen: 21.287 ug/l  
RT: 8.347 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

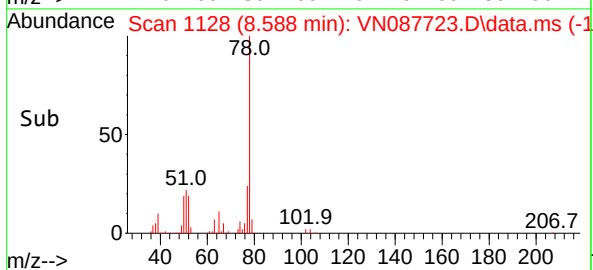
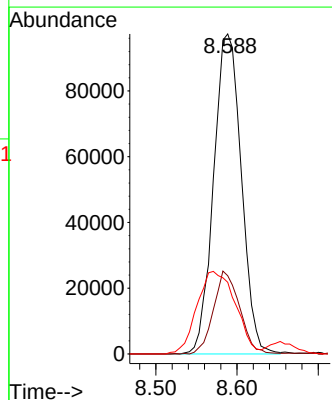
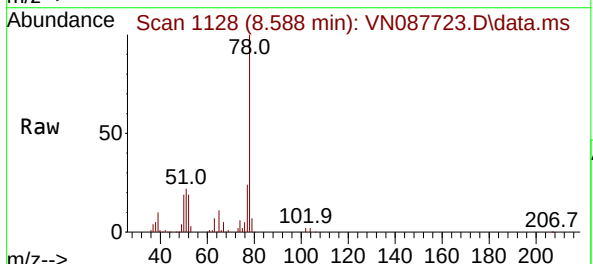
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

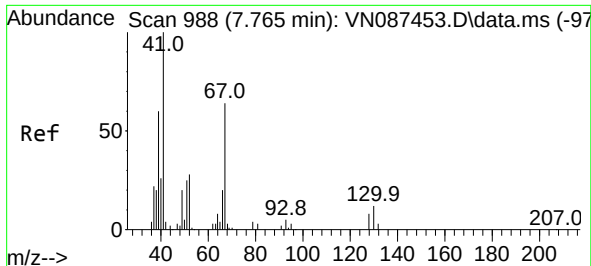
Tgt Ion:117 Resp: 77163  
Ion Ratio Lower Upper  
117 100  
119 97.2 73.4 110.0  
121 29.1 21.1 31.7



#34  
Benzene  
Concen: 21.380 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 78 Resp: 230901  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.2 28.8  
51 20.5 16.9 25.3

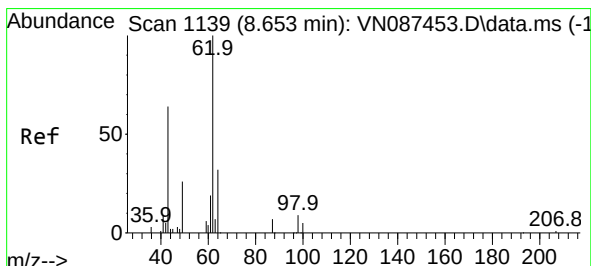
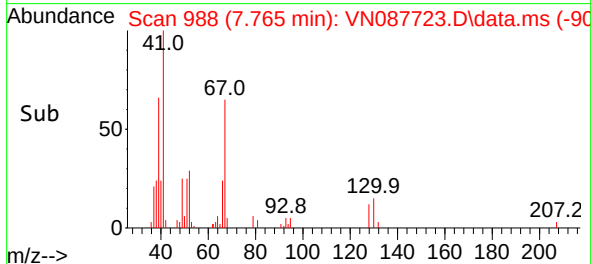
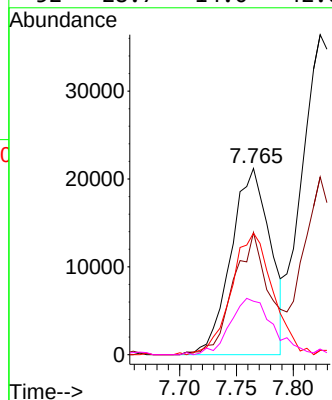
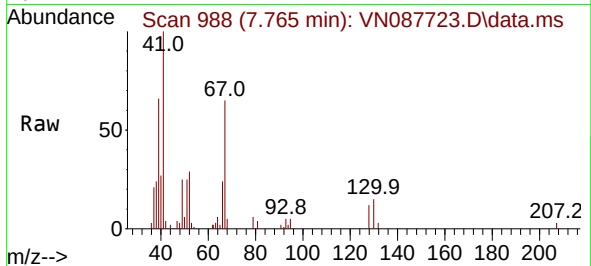




#35  
Methacrylonitrile  
Concen: 18.727 ug/l  
RT: 7.765 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

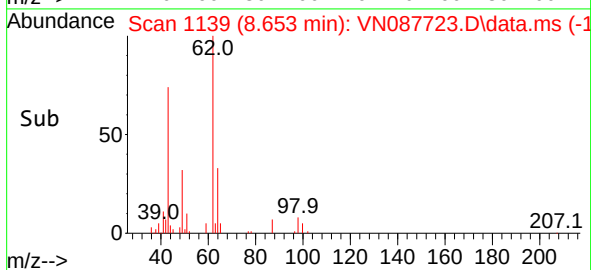
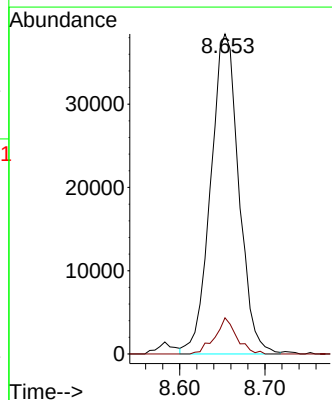
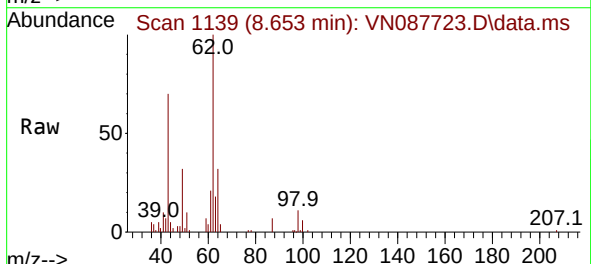
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

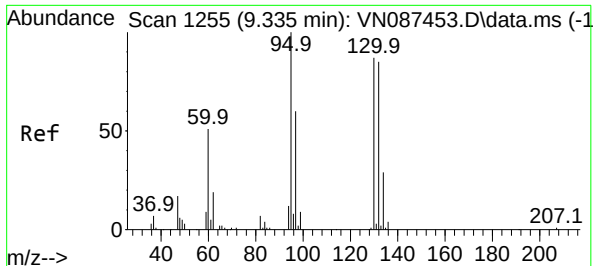
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 50964 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 39        | 65.6  | 30.1  | 90.5  |
| 67        | 64.2  | 32.0  | 96.2  |
| 52        | 28.7  | 14.0  | 42.0  |



#36  
1,2-Dichloroethane  
Concen: 20.210 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 62    | Resp: | 88217 |
| Ion Ratio | Lower | Upper |       |
| 62        | 100   |       |       |
| 98        | 8.7   | 6.6   | 9.8   |





#37

Trichloroethene

Concen: 22.421 ug/l

RT: 9.330 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

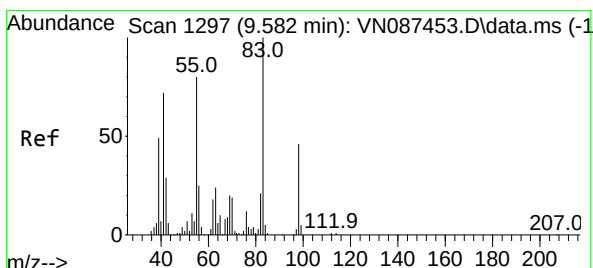
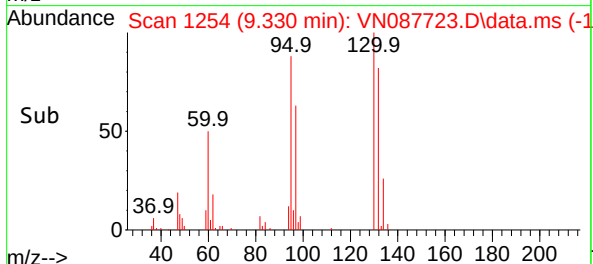
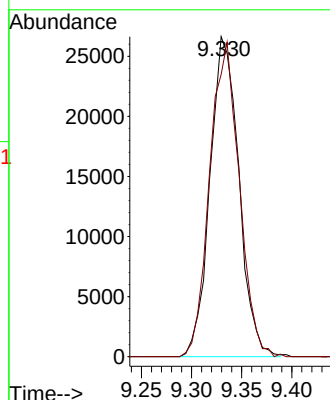
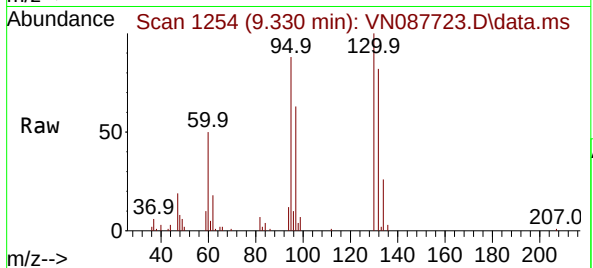
VSTDCCC020EC

Tgt Ion:130 Resp: 53338

Ion Ratio Lower Upper

130 100

95 88.2 91.4 137.2#



#38

Methylcyclohexane

Concen: 18.355 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

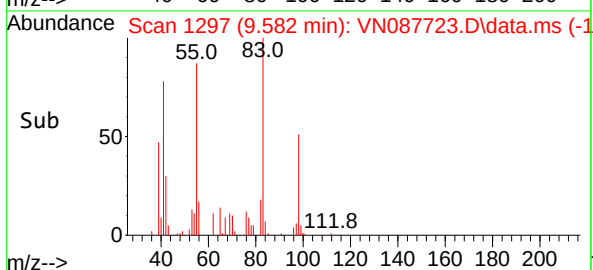
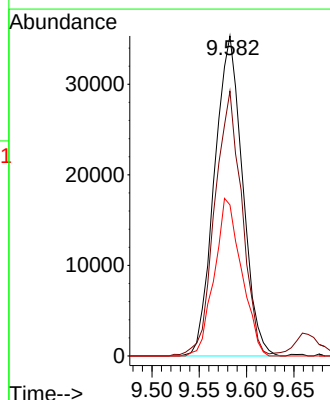
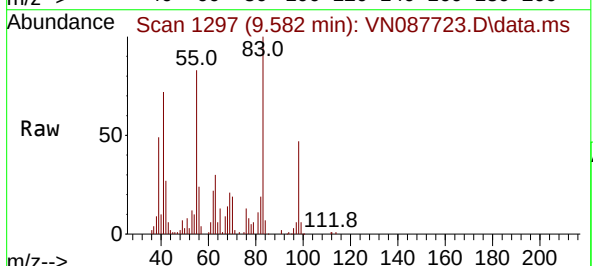
Tgt Ion: 83 Resp: 72850

Ion Ratio Lower Upper

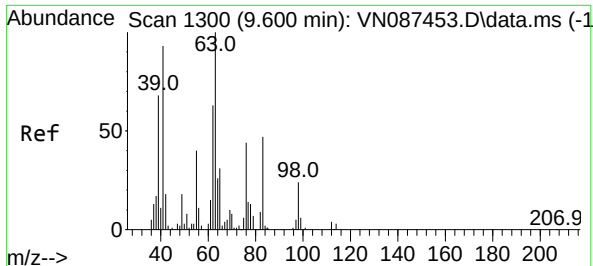
83 100

55 79.9 41.2 123.6

98 47.6 23.3 69.9







#39

1,2-Dichloropropane

Concen: 21.735 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

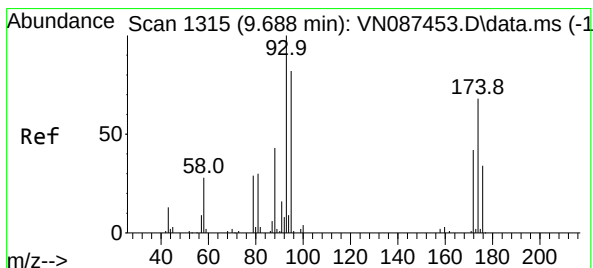
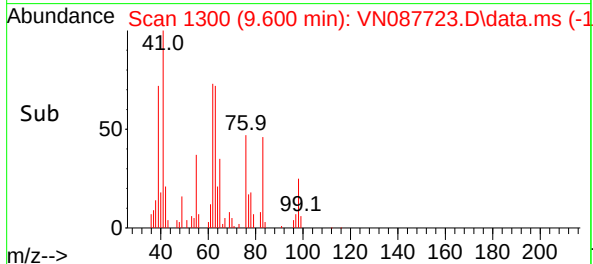
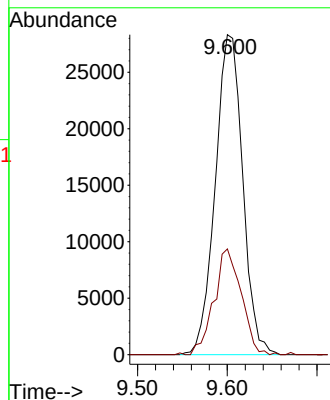
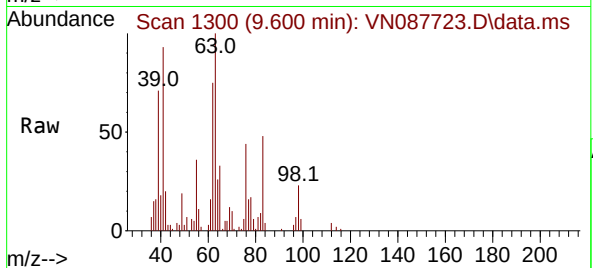
VSTDCCC020EC

Tgt Ion: 63 Resp: 60183

Ion Ratio Lower Upper

63 100

65 33.0 24.6 36.8



#40

Dibromomethane

Concen: 21.868 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

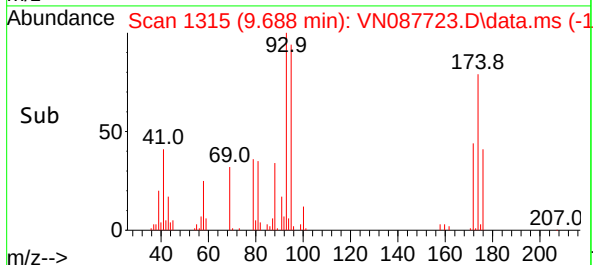
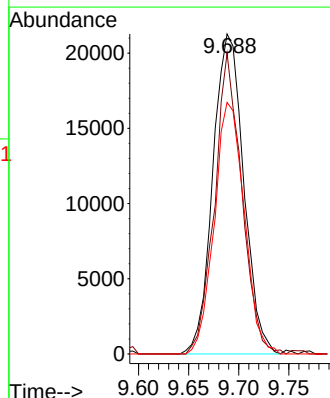
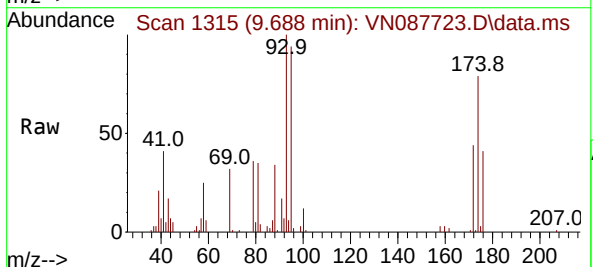
Tgt Ion: 93 Resp: 45432

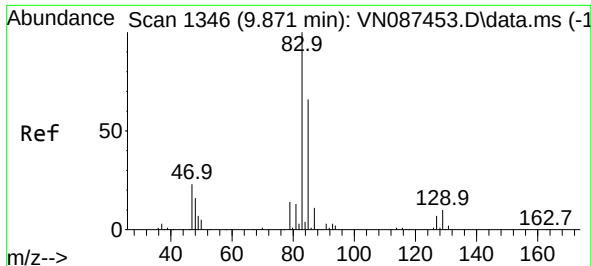
Ion Ratio Lower Upper

93 100

95 82.8 0.0 161.6

174 76.3 0.0 151.4

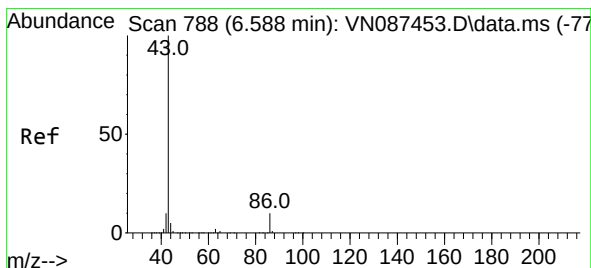
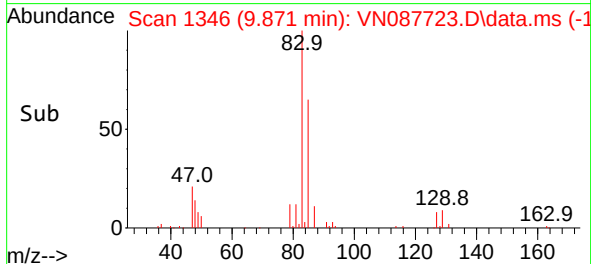
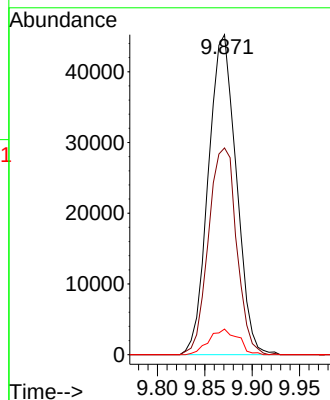
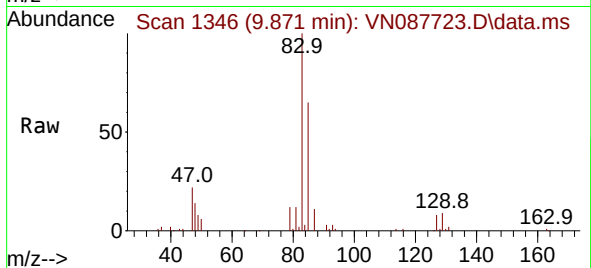




#41  
Bromodichloromethane  
Concen: 21.522 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

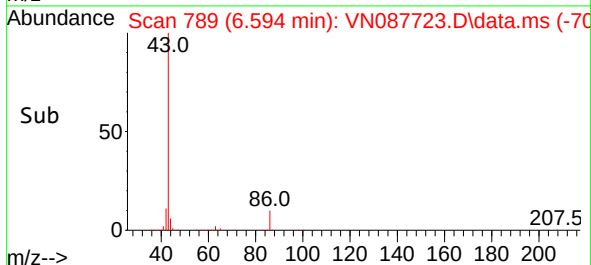
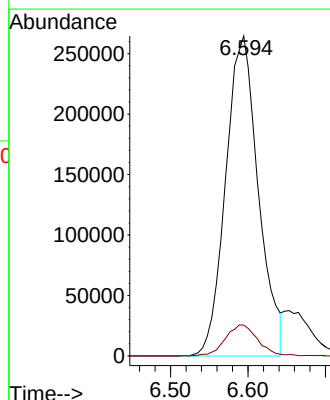
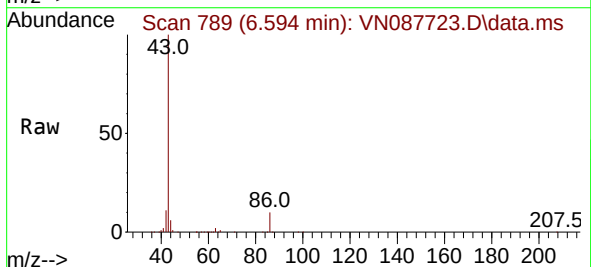
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

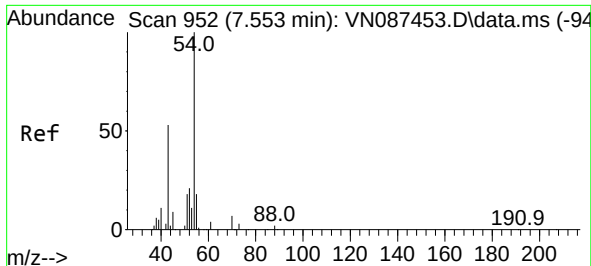
Tgt Ion: 83 Resp: 92910  
Ion Ratio Lower Upper  
83 100  
85 64.6 52.9 79.3  
127 8.0 5.8 8.6



#42  
Vinyl Acetate  
Concen: 93.526 ug/l  
RT: 6.594 min Scan# 789  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 776716  
Ion Ratio Lower Upper  
43 100  
86 9.5 7.3 10.9

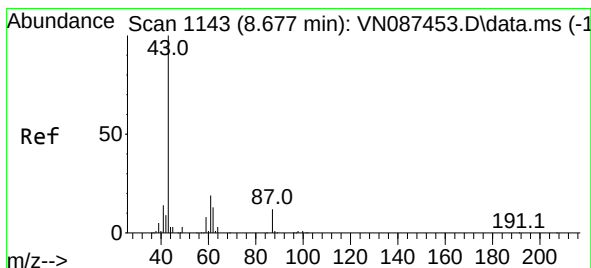
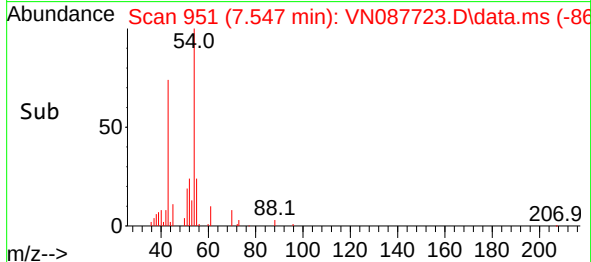
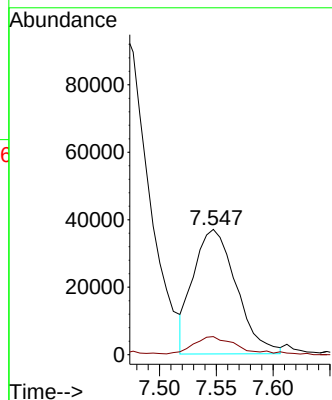
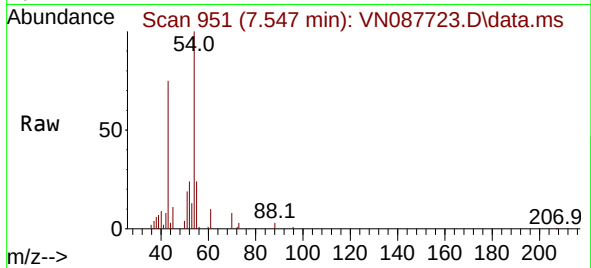




#43  
Ethyl Acetate  
Concen: 19.896 ug/l  
RT: 7.547 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

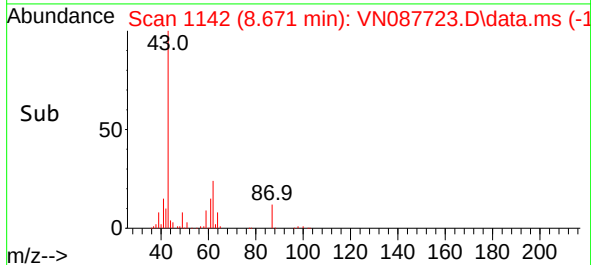
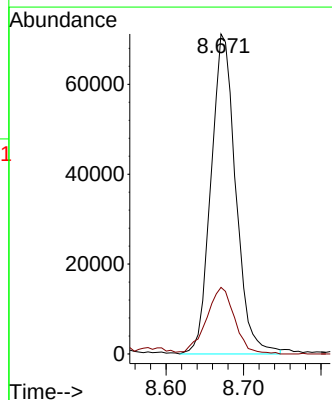
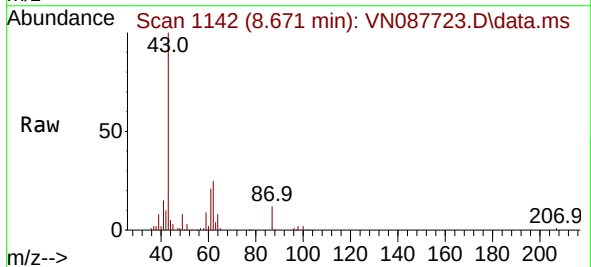
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

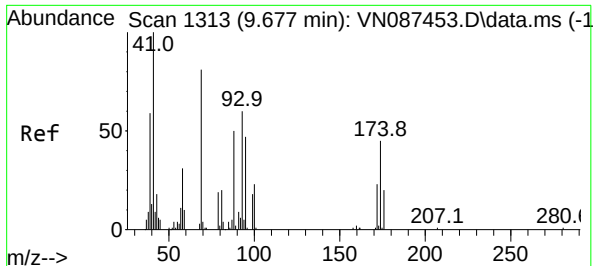
Tgt Ion: 43 Resp: 96931  
Ion Ratio Lower Upper  
43 100  
45 13.9 11.1 16.7



#44  
Isopropyl Acetate  
Concen: 19.126 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 157951  
Ion Ratio Lower Upper  
43 100  
61 23.0 18.6 28.0





#45

1,4-Dioxane

Concen: 344.161 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

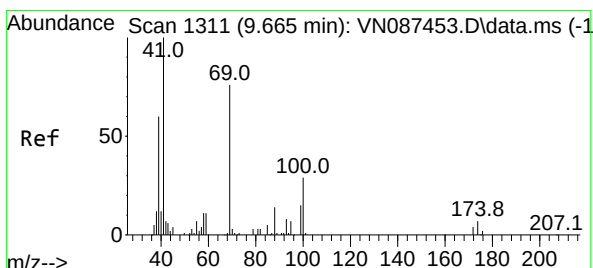
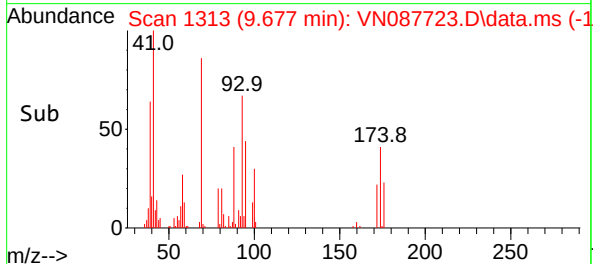
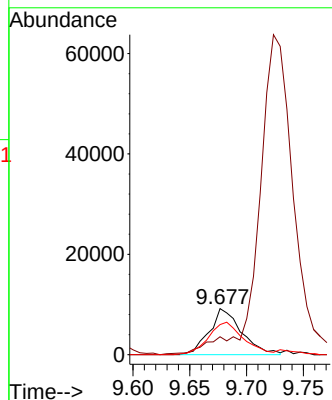
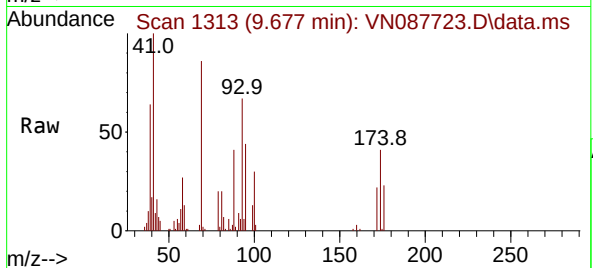
Tgt Ion: 88 Resp: 18119

Ion Ratio Lower Upper

88 100

43 41.9 24.1 36.1#

58 76.4 57.2 85.8



#46

Methyl methacrylate

Concen: 19.186 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

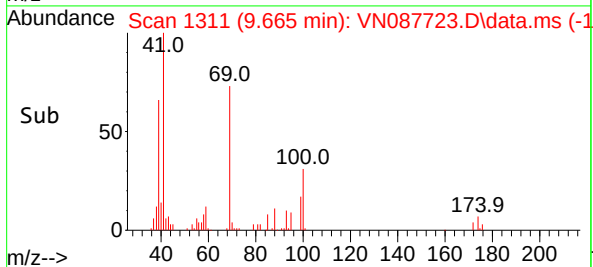
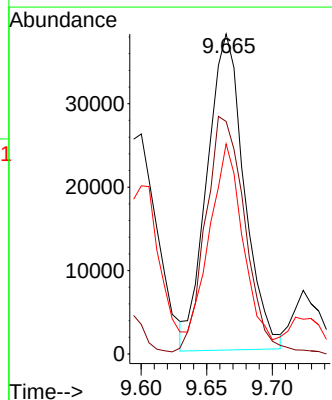
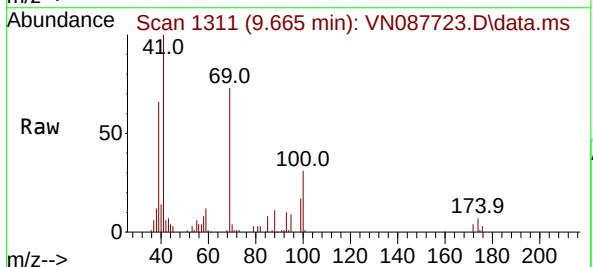
Tgt Ion: 41 Resp: 74792

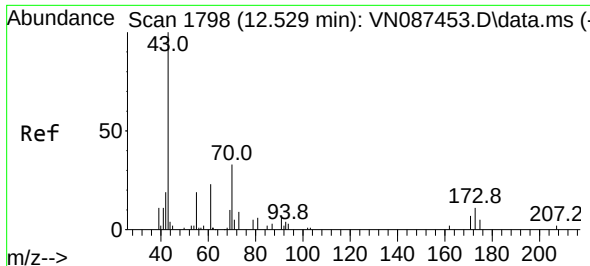
Ion Ratio Lower Upper

41 100

69 75.4 37.1 111.5

39 64.2 30.7 92.1





#47

n-amy1 Acetate

Concen: 1.443 ug/l

RT: 12.518 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

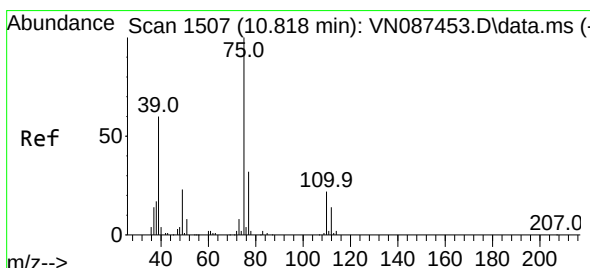
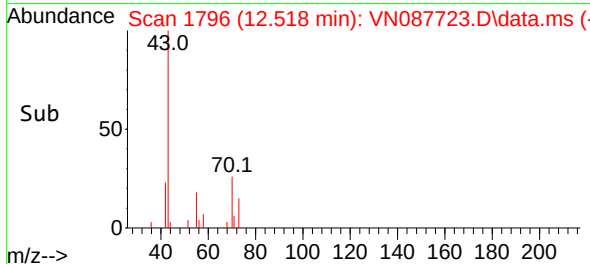
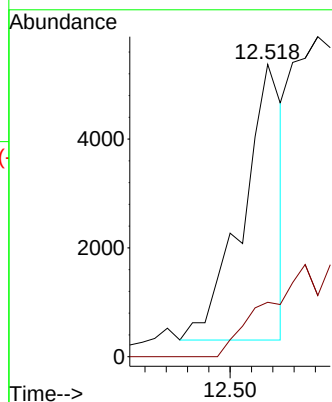
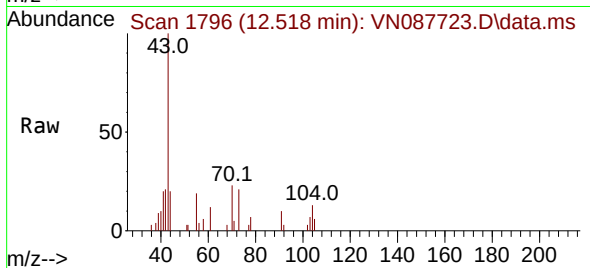
VSTDCCC020EC

Tgt Ion: 43 Resp: 6583

Ion Ratio Lower Upper

43 100

55 20.0 4.6 6.8#



#48

t-1,3-Dichloropropene

Concen: 19.468 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087723.D

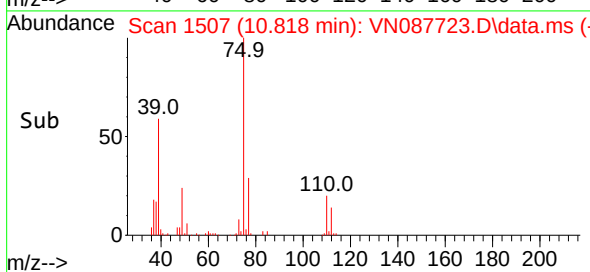
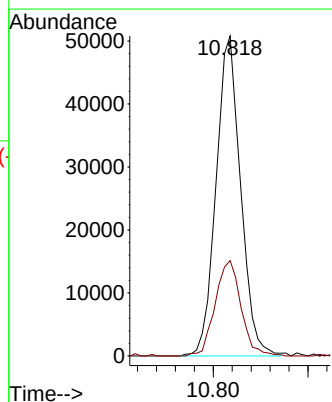
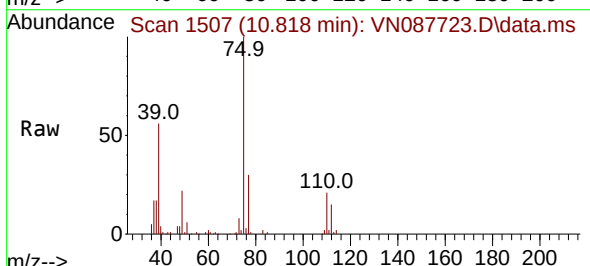
Acq: 04 Sep 2025 15:21

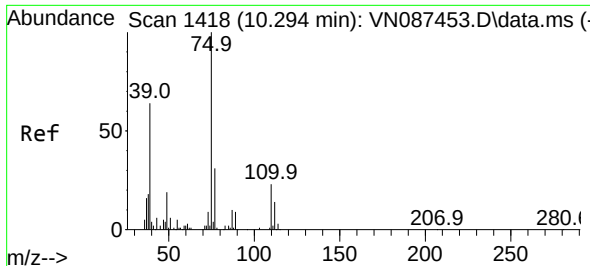
Tgt Ion: 75 Resp: 91435

Ion Ratio Lower Upper

75 100

77 29.8 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 20.047 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

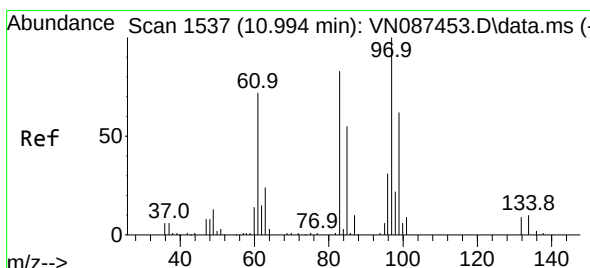
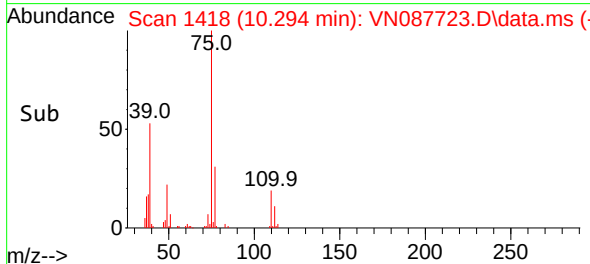
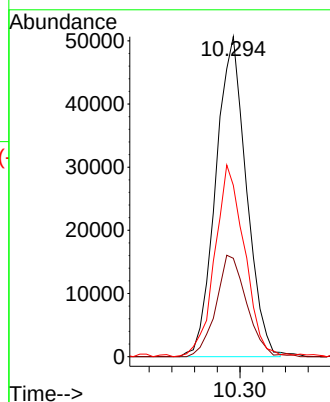
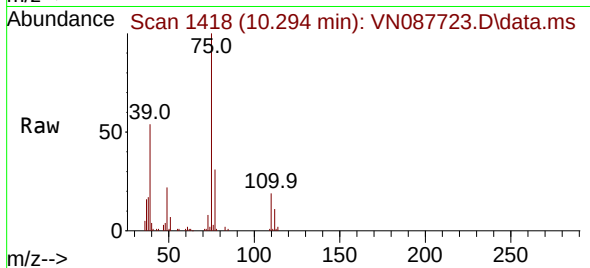
Tgt Ion: 75 Resp: 94752

Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

39 53.3 51.5 77.3



#50

1,1,2-Trichloroethane

Concen: 22.387 ug/l

RT: 11.000 min Scan# 1538

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion: 97 Resp: 58762

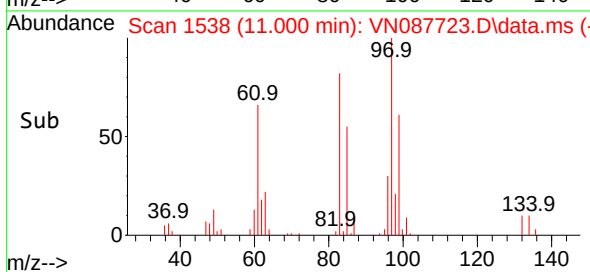
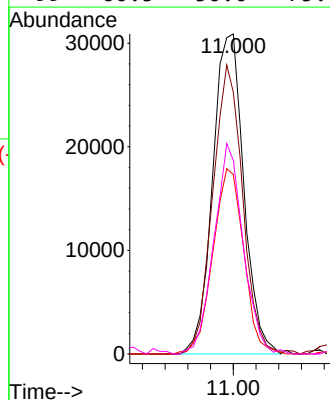
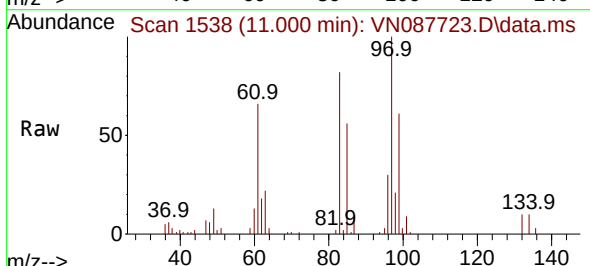
Ion Ratio Lower Upper

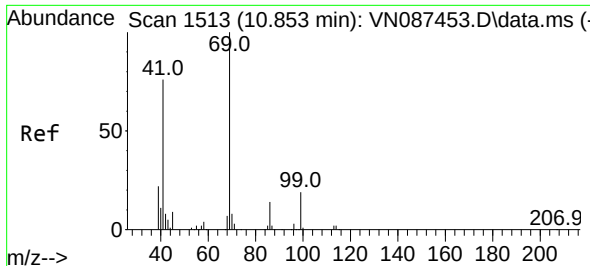
97 100

83 81.8 66.2 99.2

85 55.6 43.9 65.9

99 60.5 50.0 75.0

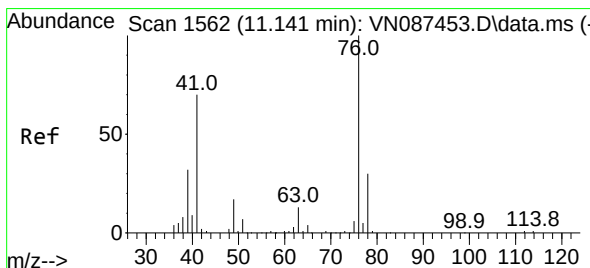
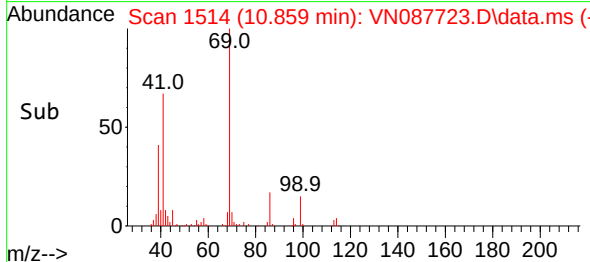
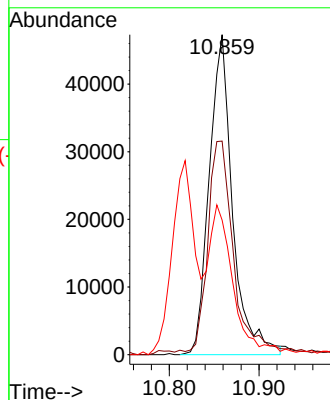
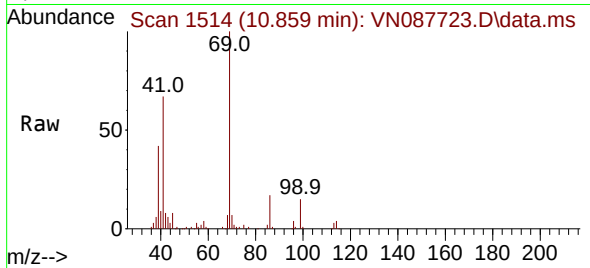




#51  
Ethyl methacrylate  
Concen: 18.496 ug/l  
RT: 10.859 min Scan# 1513  
Delta R.T. 0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

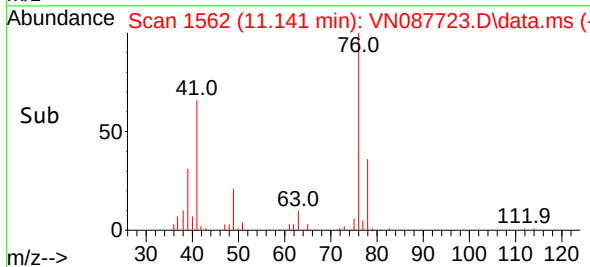
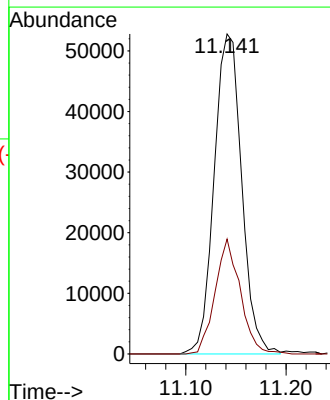
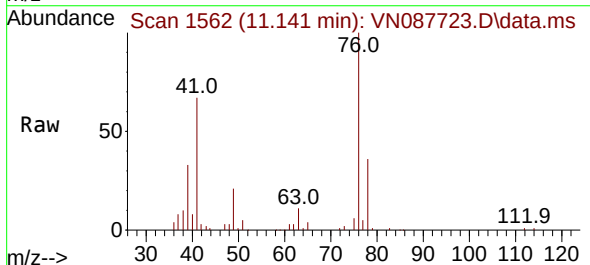
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

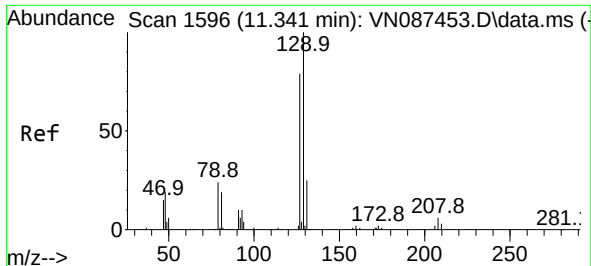
Tgt Ion: 69 Resp: 85505  
Ion Ratio Lower Upper  
69 100  
41 65.3 38.0 114.1  
39 41.0 23.2 69.5



#52  
1,3-Dichloropropane  
Concen: 21.281 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 100640  
Ion Ratio Lower Upper  
76 100  
78 32.9 0.0 63.0

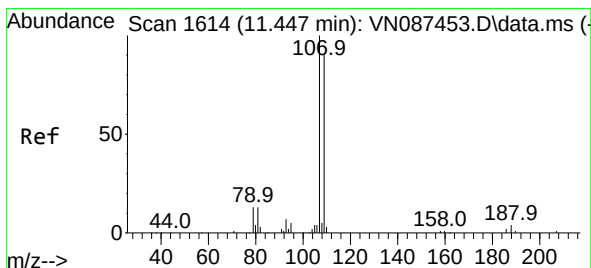
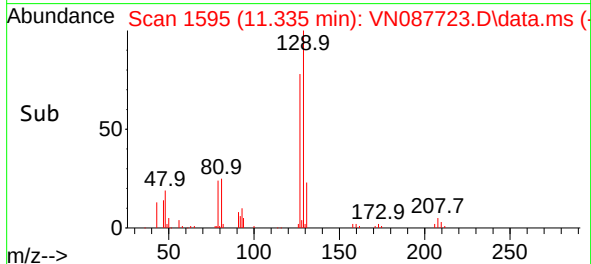
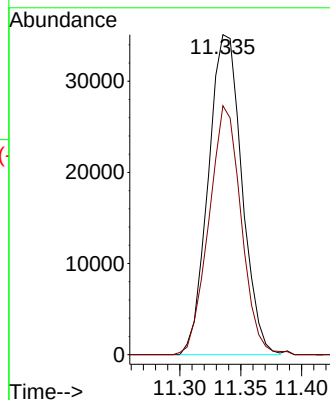
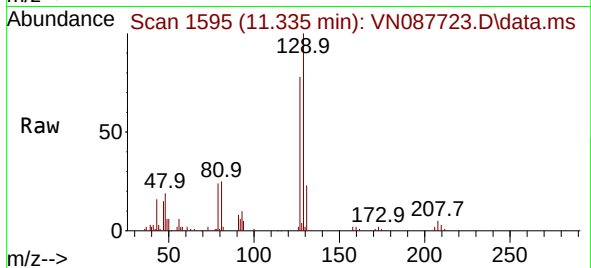




#53  
Dibromochloromethane  
Concen: 22.199 ug/l  
RT: 11.335 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

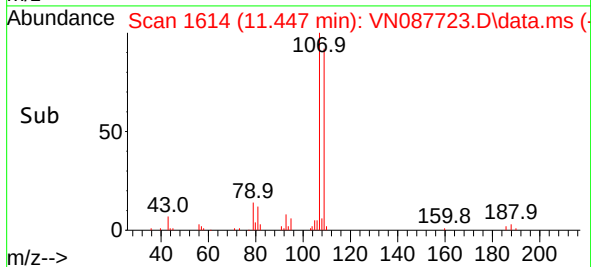
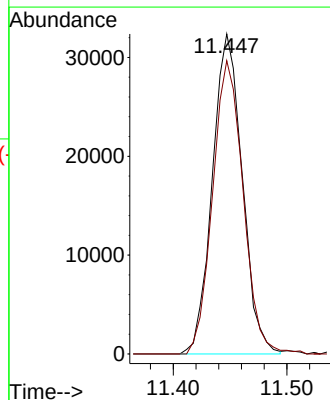
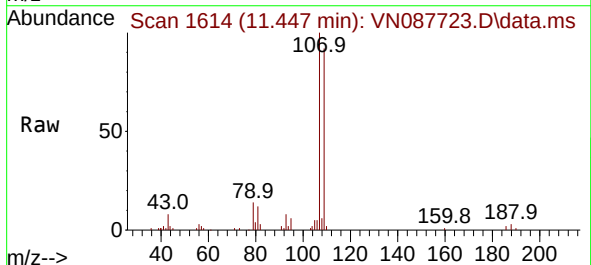
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion:129 Resp: 67293  
Ion Ratio Lower Upper  
129 100  
127 74.7 39.1 117.3

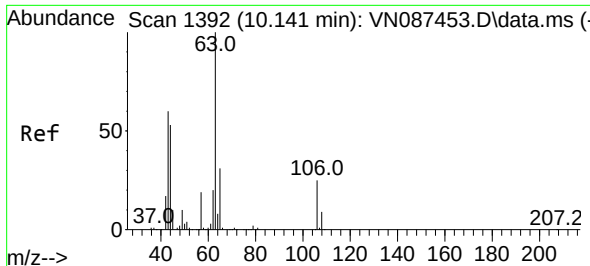


#54  
1,2-Dibromoethane  
Concen: 21.233 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:107 Resp: 59165  
Ion Ratio Lower Upper  
107 100  
109 93.7 74.2 111.4



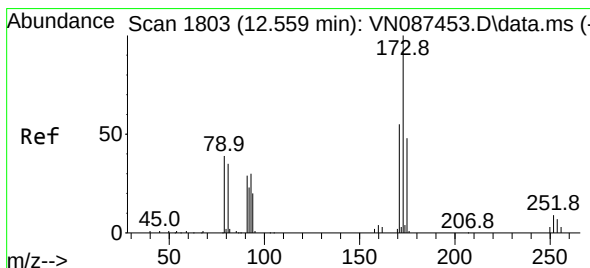
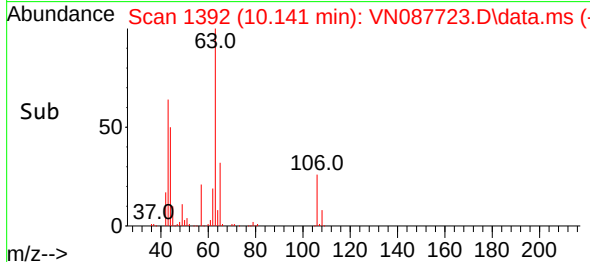
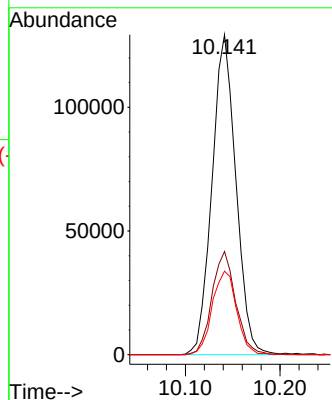
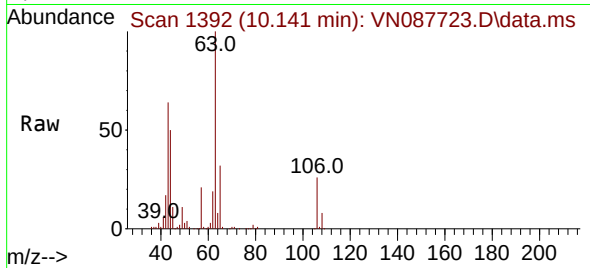




#55  
2-Chloroethyl vinyl ether  
Concen: 93.240 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

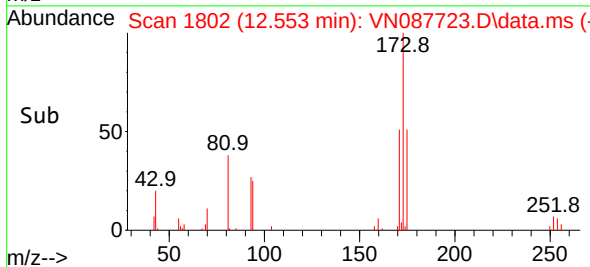
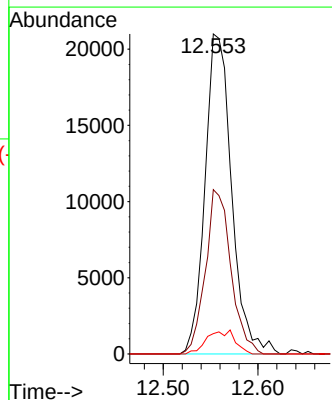
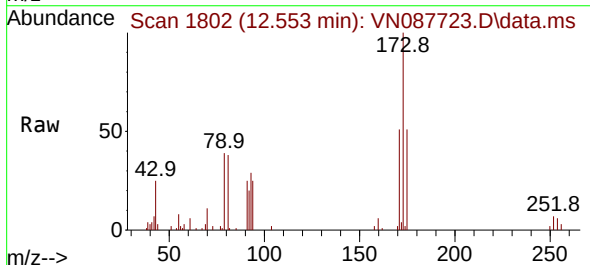
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

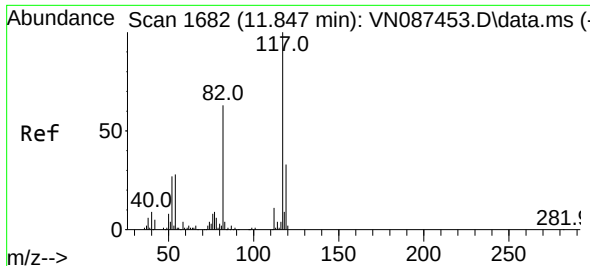
Tgt Ion: 63 Resp: 226909  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.7 38.5  
106 26.5 20.7 31.1



#56  
Bromoform  
Concen: 20.416 ug/l  
RT: 12.553 min Scan# 1802  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 173 Resp: 40935  
Ion Ratio Lower Upper  
173 100  
175 49.2 38.8 58.2  
254 5.3 3.9 5.9

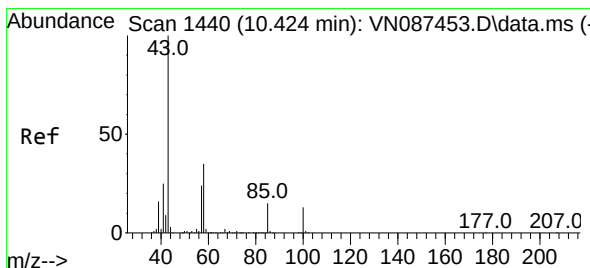
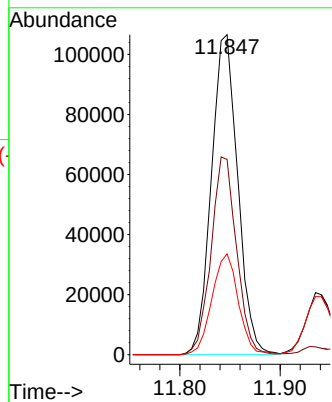
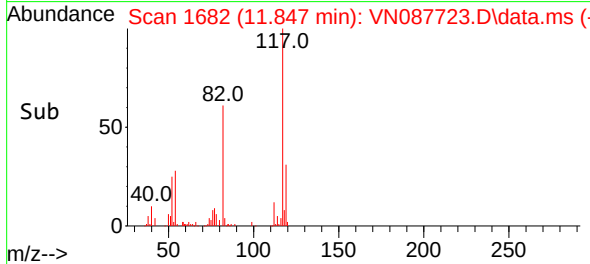
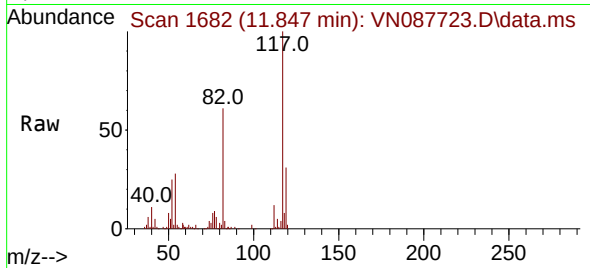




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

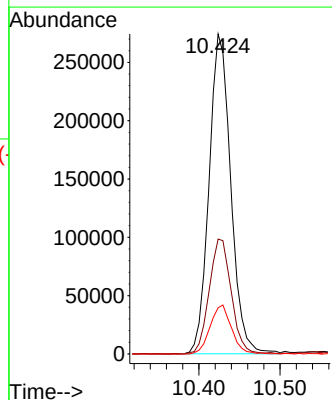
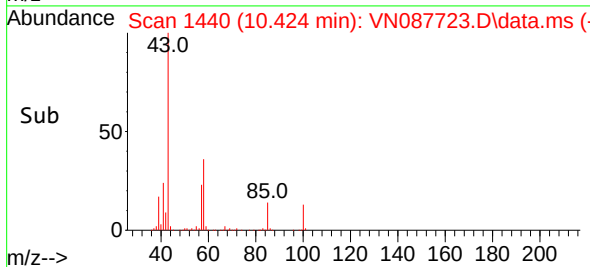
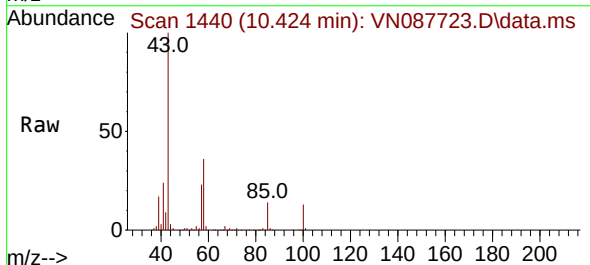
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

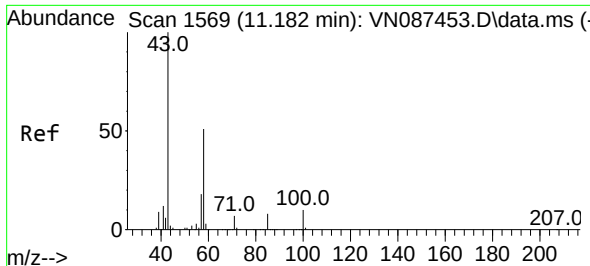
Tgt Ion:117 Resp: 194705  
Ion Ratio Lower Upper  
117 100  
82 60.0 49.2 73.8  
119 31.4 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 101.757 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 509673  
Ion Ratio Lower Upper  
43 100  
58 36.4 29.0 43.6  
85 14.9 12.7 19.1

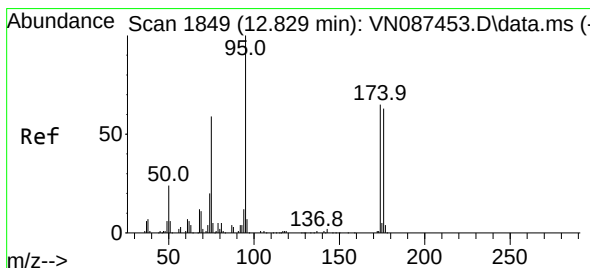
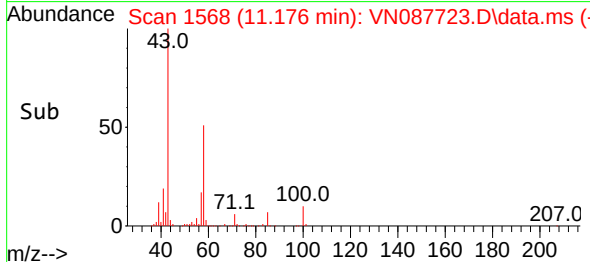
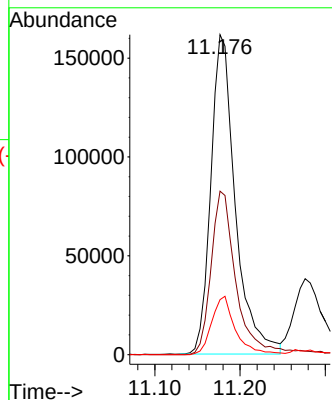
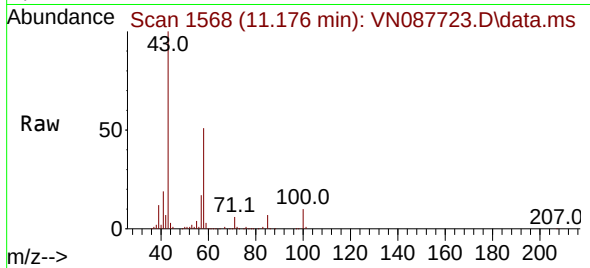




#59  
2-Hexanone  
Concen: 94.645 ug/l  
RT: 11.176 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

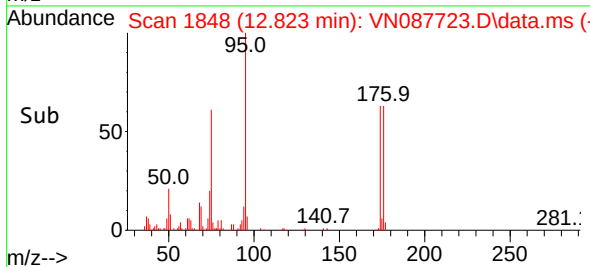
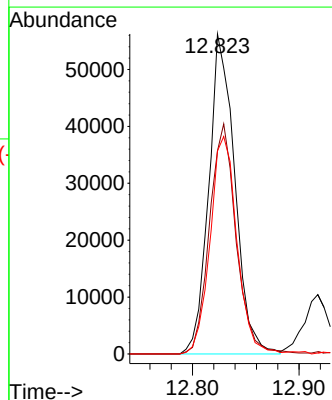
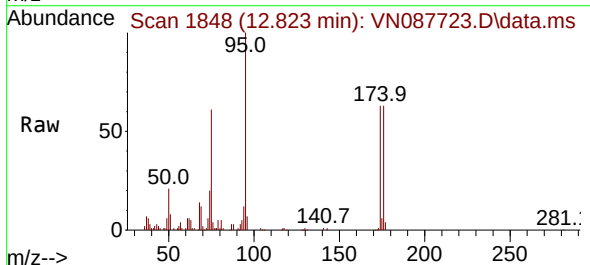
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

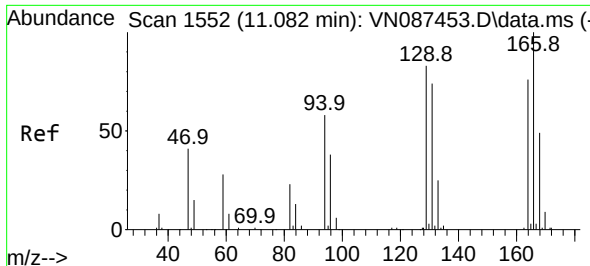
Tgt Ion: 43 Resp: 322095  
Ion Ratio Lower Upper  
43 100  
58 52.7 41.0 61.6  
57 17.7 14.6 21.8



#60  
4-Bromofluorobenzene  
Concen: 28.430 ug/l  
RT: 12.823 min Scan# 1848  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 95 Resp: 95262  
Ion Ratio Lower Upper  
95 100  
174 73.7 52.3 78.5  
176 70.1 49.8 74.8

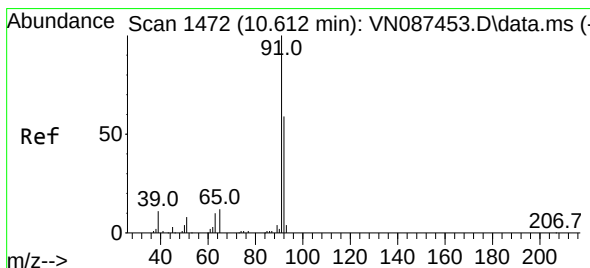
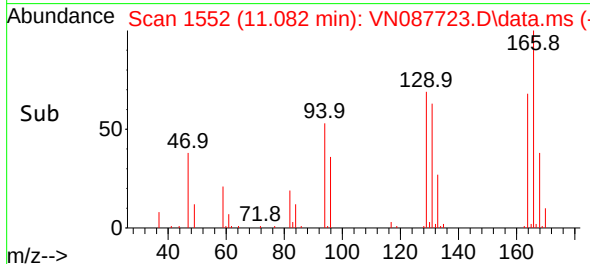
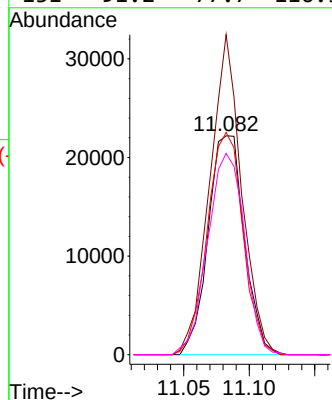
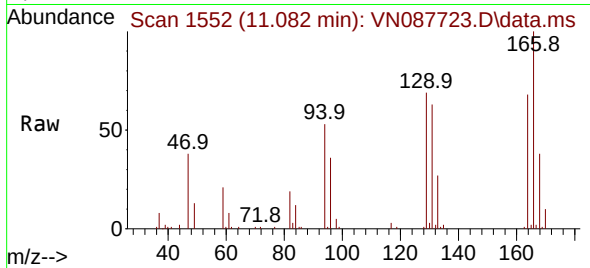




#61  
Tetrachloroethene  
Concen: 22.426 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

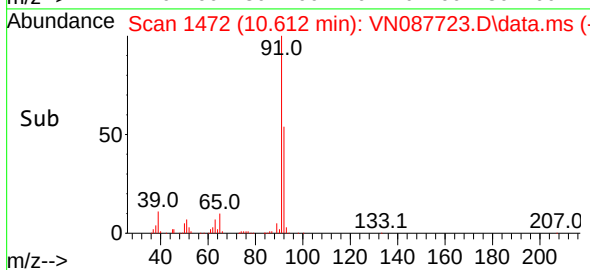
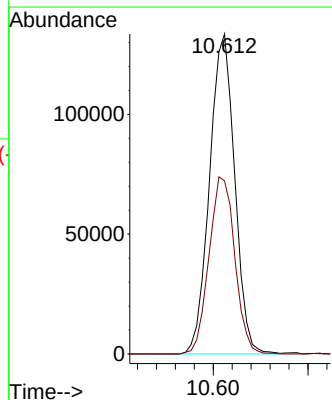
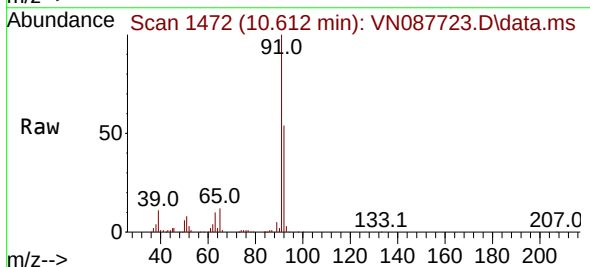
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

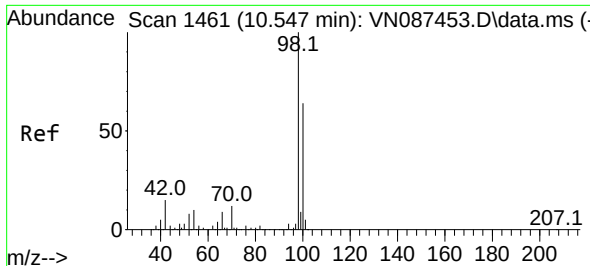
Tgt Ion:164 Resp: 42539  
Ion Ratio Lower Upper  
164 100  
166 145.4 105.4 158.0  
129 101.5 87.7 131.5  
131 91.2 77.7 116.5



#62  
Toluene  
Concen: 20.471 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 246003  
Ion Ratio Lower Upper  
91 100  
92 56.7 45.8 68.6

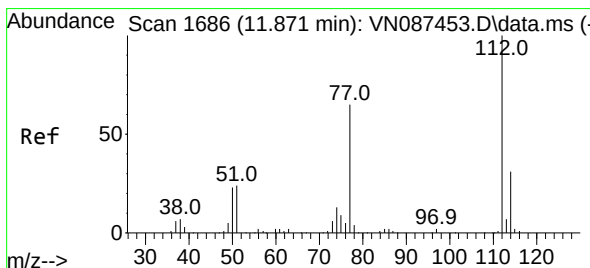
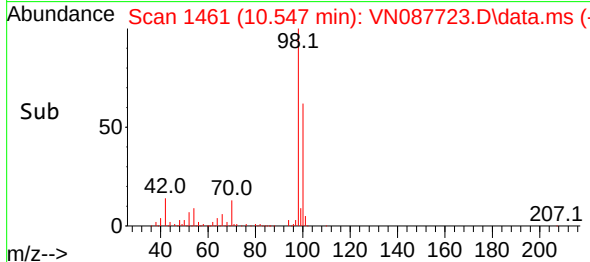
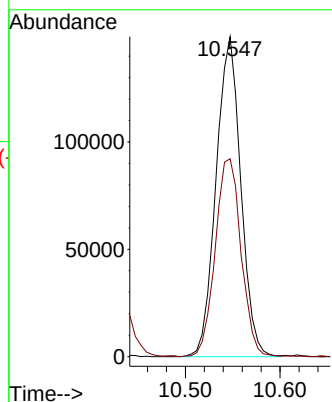
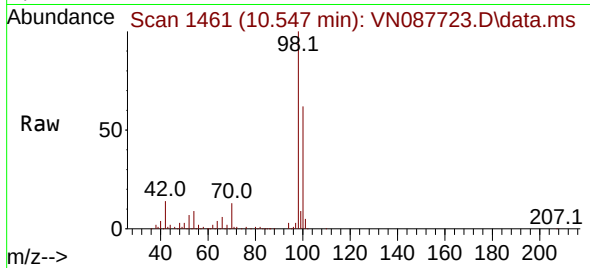




#63  
Toluene-d8  
Concen: 30.176 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

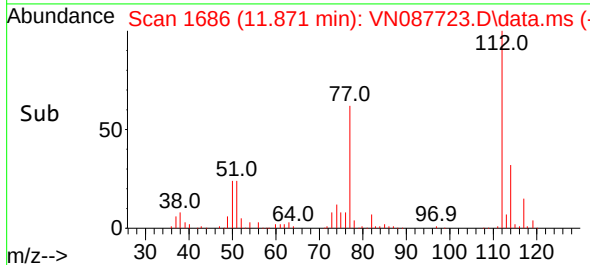
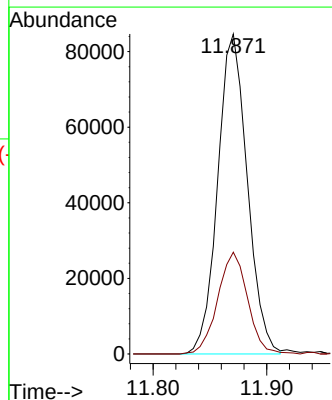
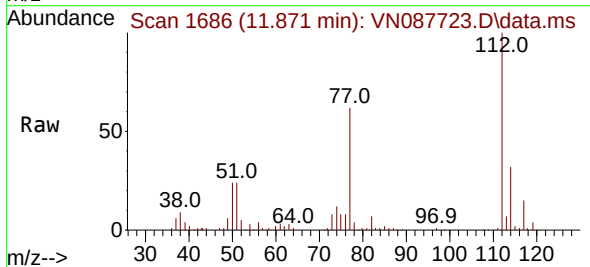
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

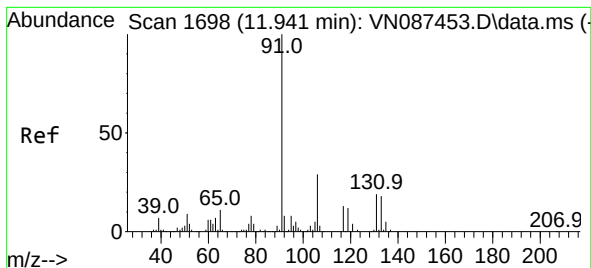
Tgt Ion: 98 Resp: 270343  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.5 75.7



#64  
Chlorobenzene  
Concen: 20.730 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 112 Resp: 153070  
Ion Ratio Lower Upper  
112 100  
114 31.8 24.7 37.1

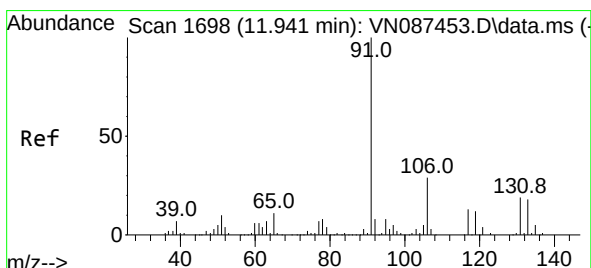
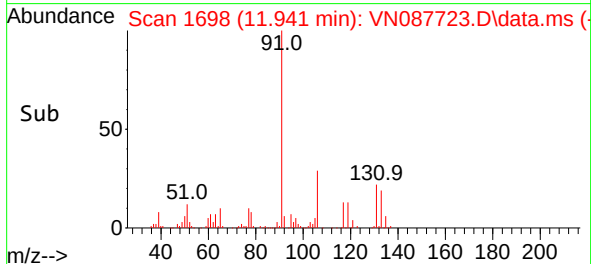
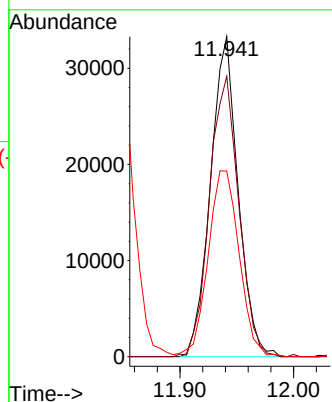
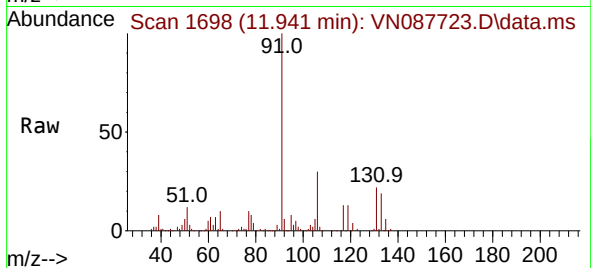




#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.728 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

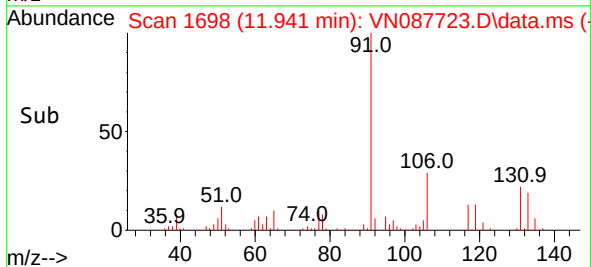
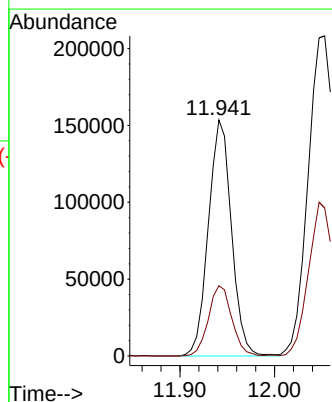
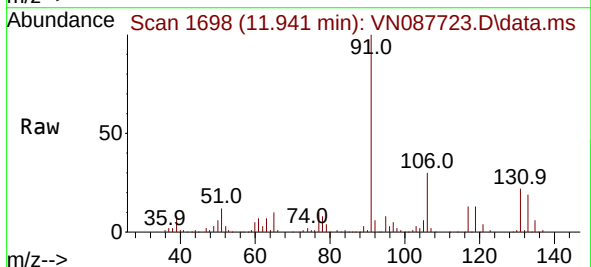
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

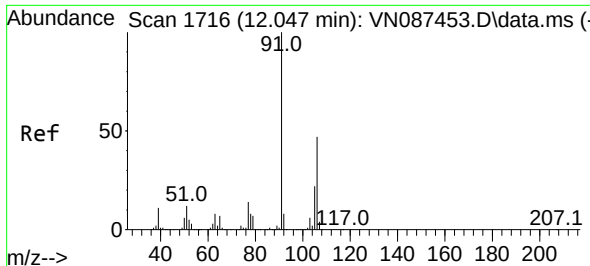
Tgt Ion:131 Resp: 56409  
Ion Ratio Lower Upper  
131 100  
133 92.5 0.0 189.8  
119 64.9 0.0 133.2



#66  
Ethyl Benzene  
Concen: 19.489 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 261043  
Ion Ratio Lower Upper  
91 100  
106 29.8 22.9 34.3

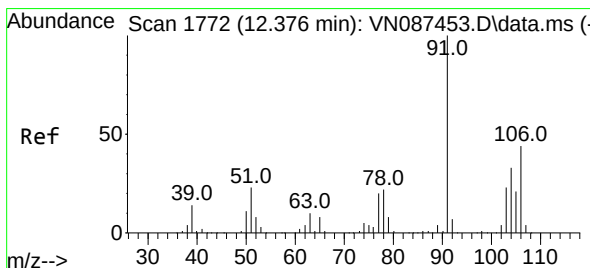
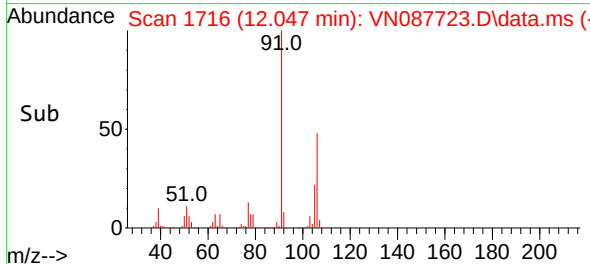
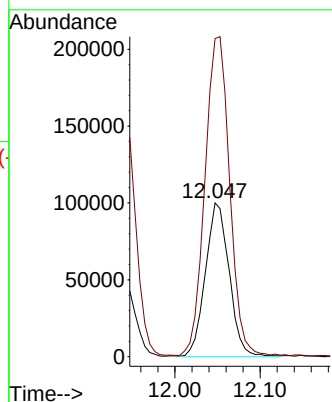
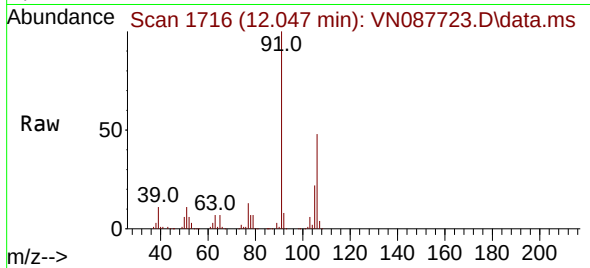




#67  
m/p-Xylenes  
Concen: 39.456 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

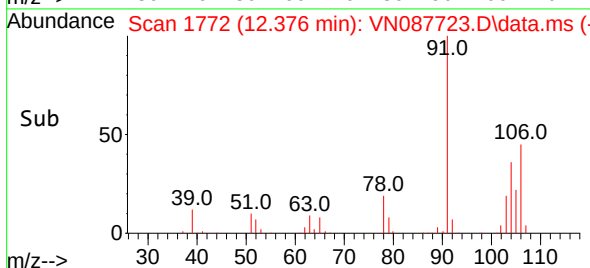
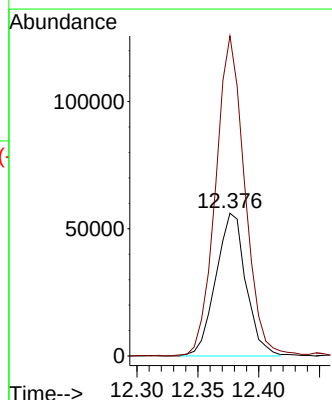
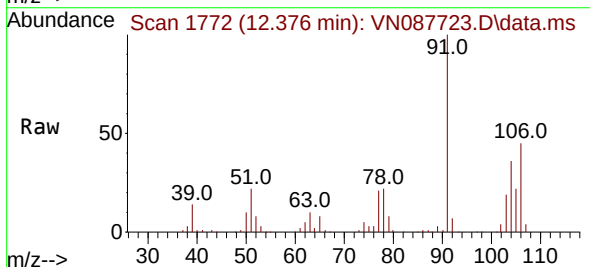
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

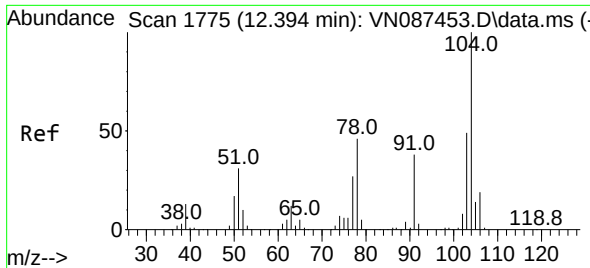
Tgt Ion:106 Resp: 193984  
Ion Ratio Lower Upper  
106 100  
91 217.1 174.2 261.2



#68  
o-Xylene  
Concen: 19.948 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:106 Resp: 96487  
Ion Ratio Lower Upper  
106 100  
91 217.5 114.5 343.5

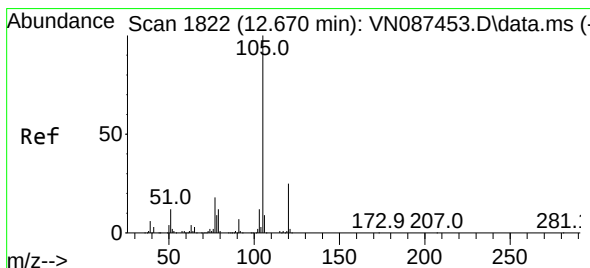
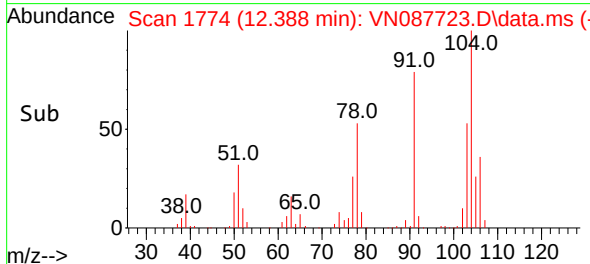
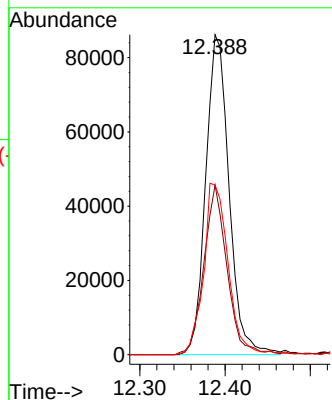
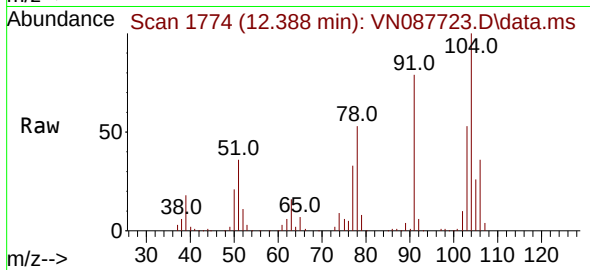




#69  
Styrene  
Concen: 19.883 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

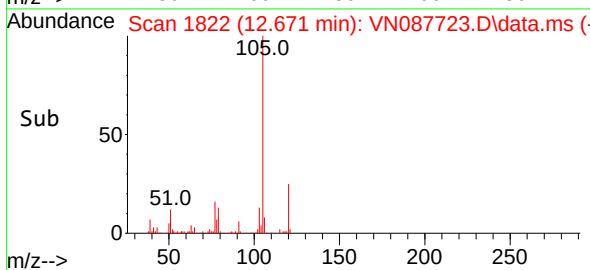
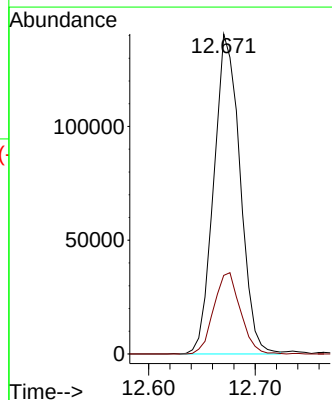
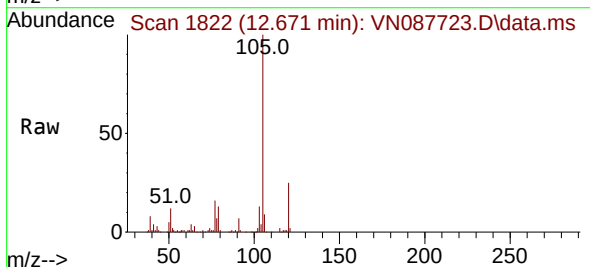
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion:104 Resp: 164210  
Ion Ratio Lower Upper  
104 100  
78 52.1 43.8 65.8  
103 55.8 43.1 64.7

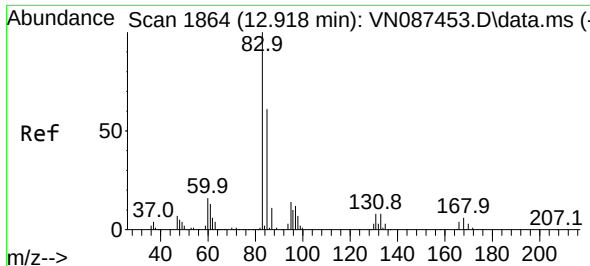


#70  
Isopropylbenzene  
Concen: 19.589 ug/l  
RT: 12.671 min Scan# 1822  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:105 Resp: 240721  
Ion Ratio Lower Upper  
105 100  
120 25.7 17.5 32.5



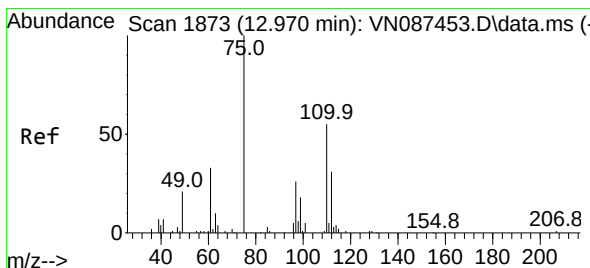
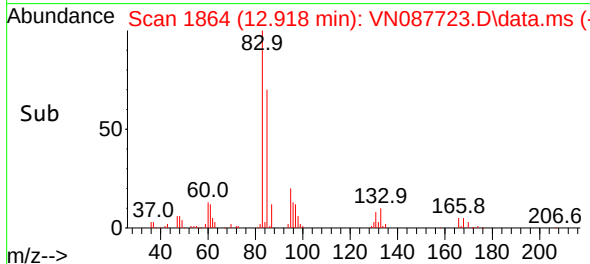
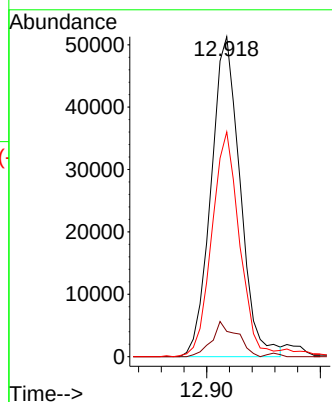
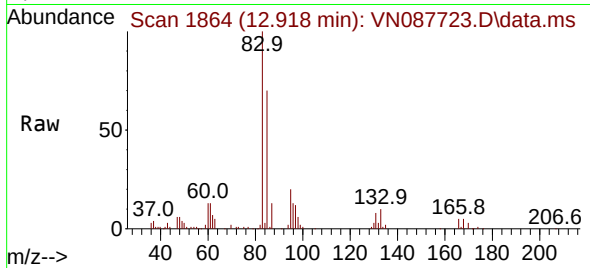




#71  
1,1,2,2-Tetrachloroethane  
Concen: 21.658 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

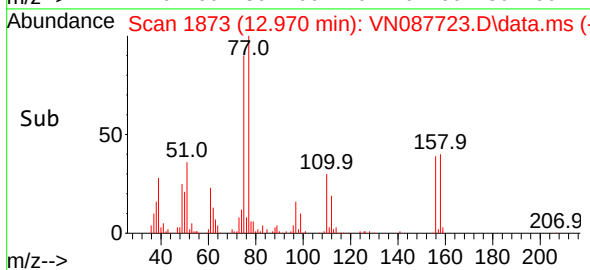
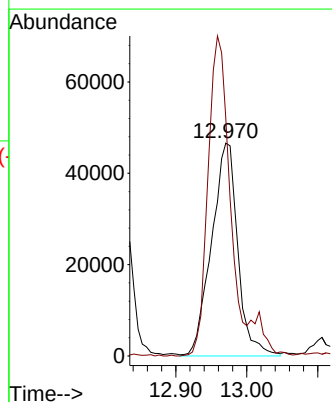
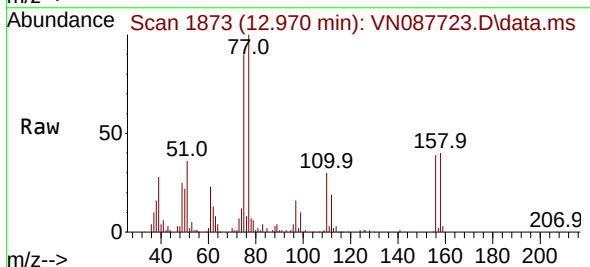
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

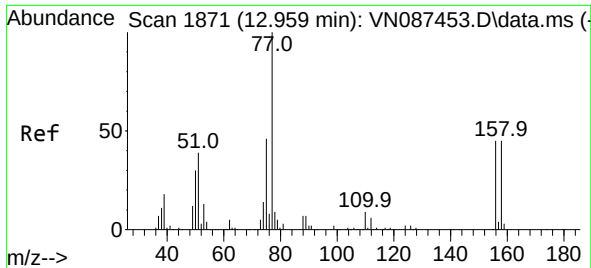
Tgt Ion: 83 Resp: 91191  
Ion Ratio Lower Upper  
83 100  
131 7.4 4.8 14.3  
85 66.7 31.7 95.1



#72  
1,2,3-Trichloropropane  
Concen: 30.465 ug/l  
RT: 12.970 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 75 Resp: 119495  
Ion Ratio Lower Upper  
75 100  
77 123.3 0.0 385.0

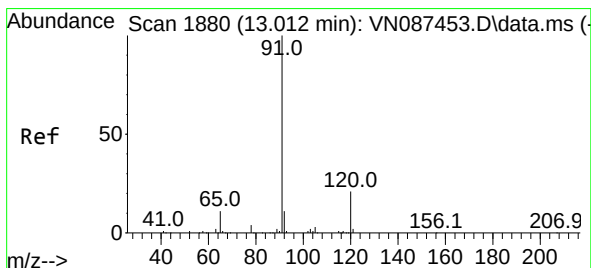
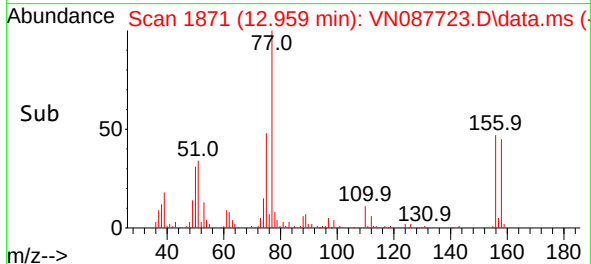
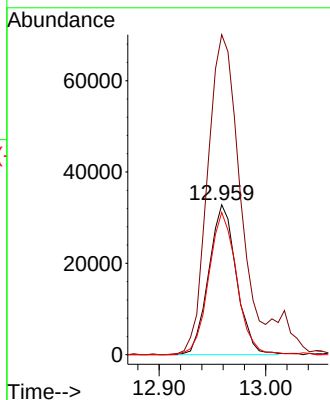
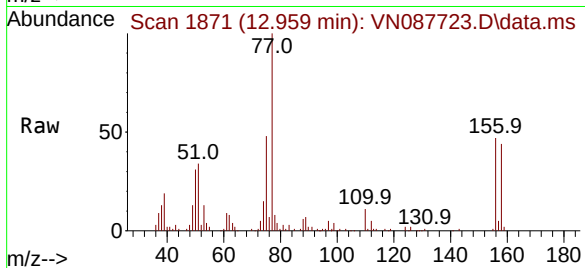




#73  
Bromobenzene  
Concen: 20.738 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

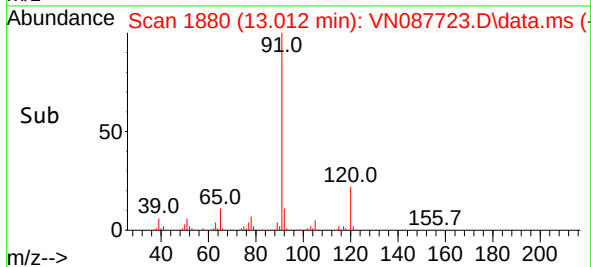
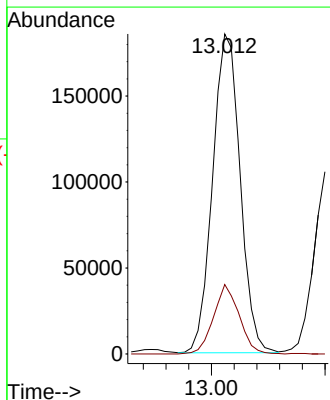
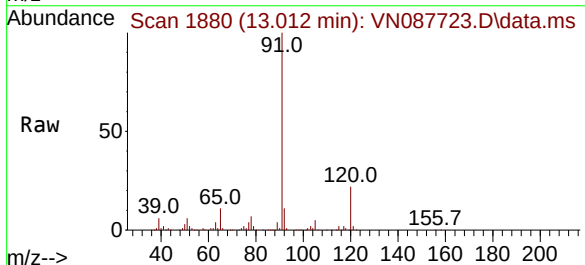
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

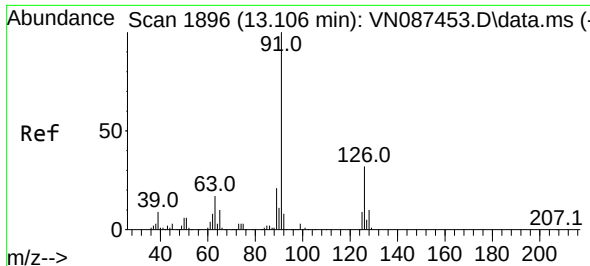
Tgt Ion:156 Resp: 59076  
Ion Ratio Lower Upper  
156 100  
77 249.4 0.0 506.6  
158 95.7 0.0 193.6



#74  
n-propylbenzene  
Concen: 20.322 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 311880  
Ion Ratio Lower Upper  
91 100  
120 20.3 0.0 41.8

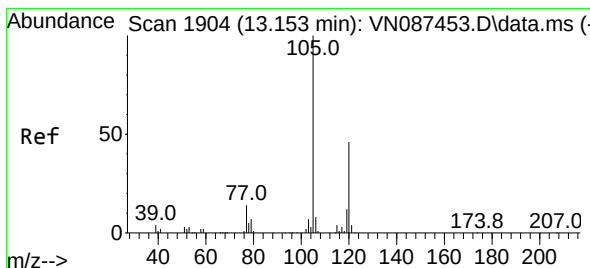
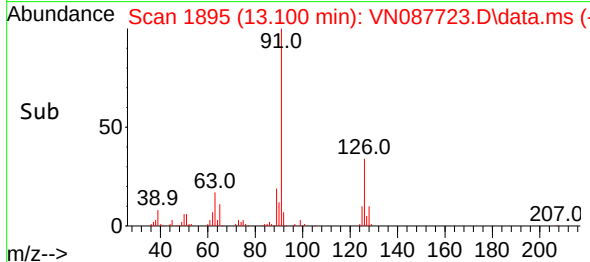
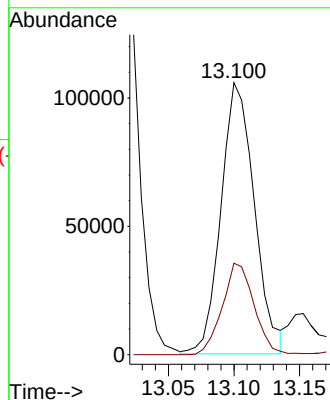
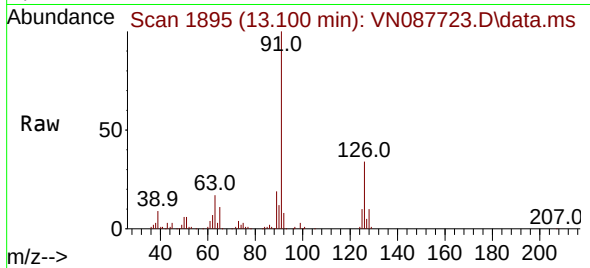




#75  
2-Chlorotoluene  
Concen: 19.808 ug/l  
RT: 13.100 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

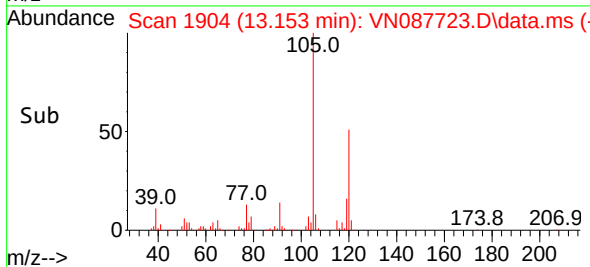
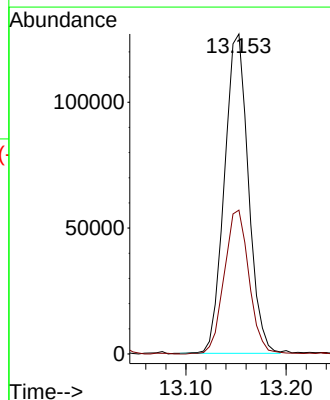
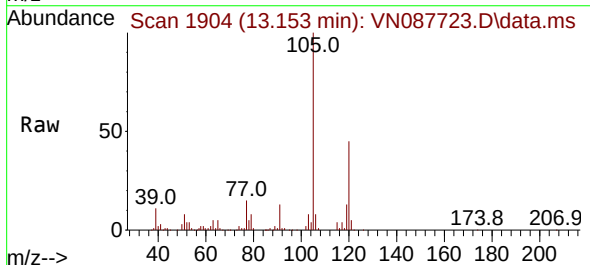
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MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

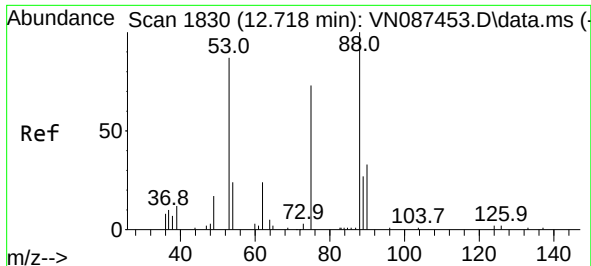
Tgt Ion: 91 Resp: 186992  
Ion Ratio Lower Upper  
91 100  
126 32.0 0.0 60.4



#76  
1,3,5-Trimethylbenzene  
Concen: 19.972 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 105 Resp: 210137  
Ion Ratio Lower Upper  
105 100  
120 46.7 0.0 91.2

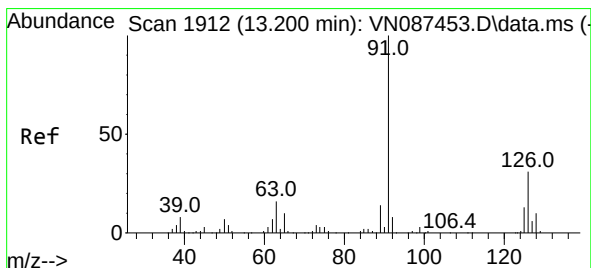
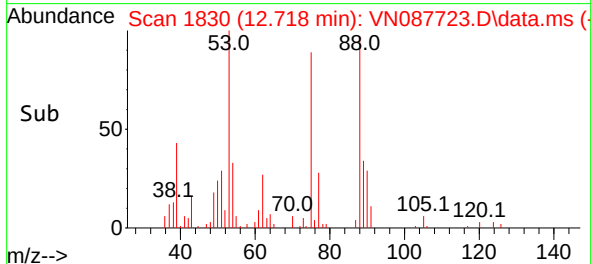
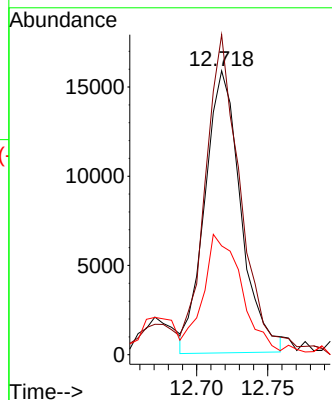
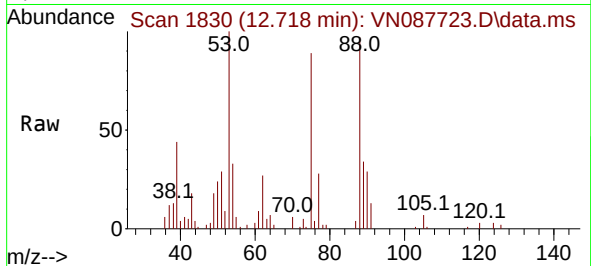




#77  
t-1,4-Dichloro-2-butene  
Concen: 18.763 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

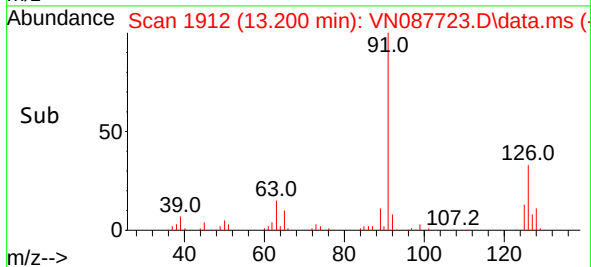
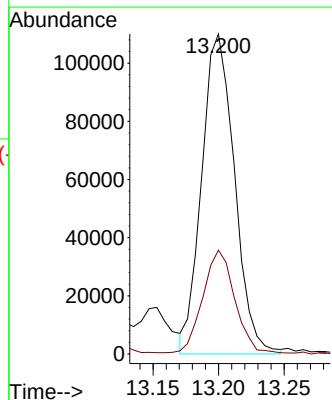
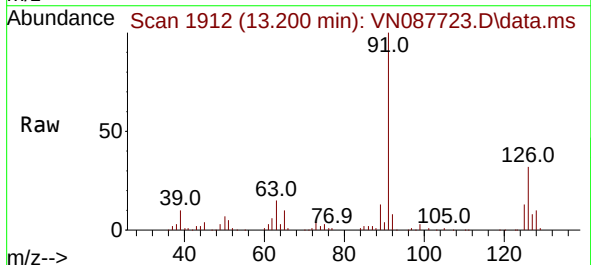
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

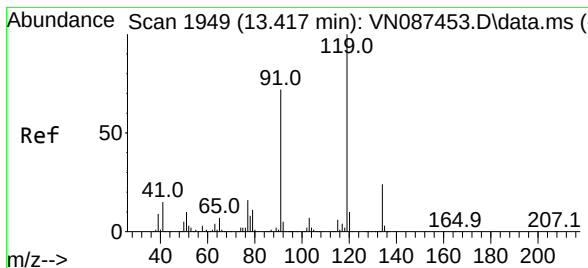
Tgt Ion: 75 Resp: 27859  
Ion Ratio Lower Upper  
75 100  
53 113.8 59.0 176.8  
89 39.5 22.1 66.5



#78  
4-Chlorotoluene  
Concen: 20.031 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 191634  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 63.2

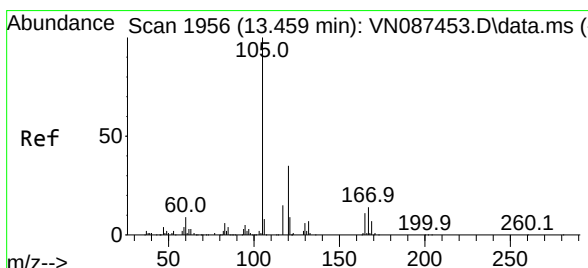
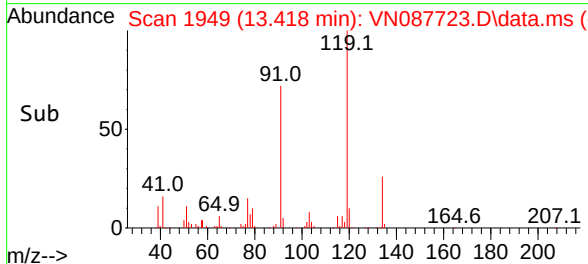
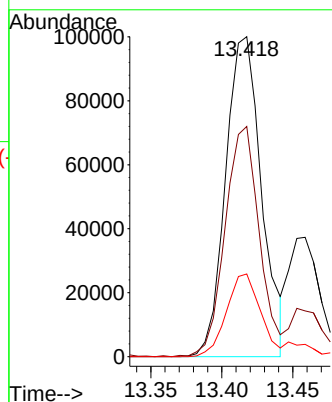
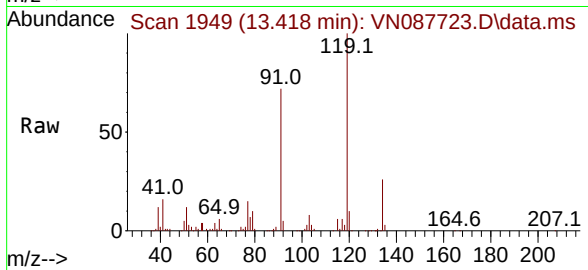




#79  
tert-butylbenzene  
Concen: 19.861 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

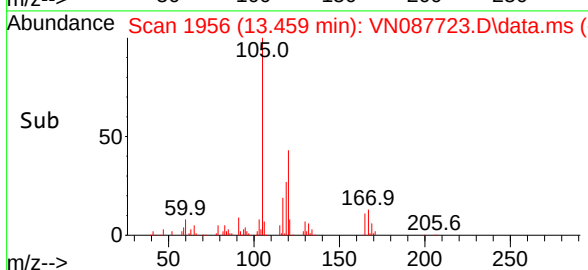
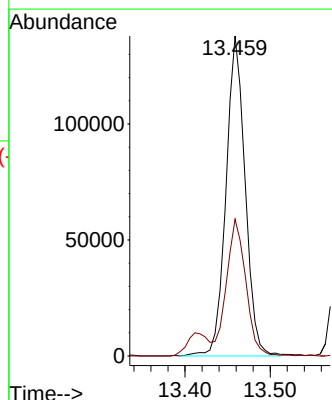
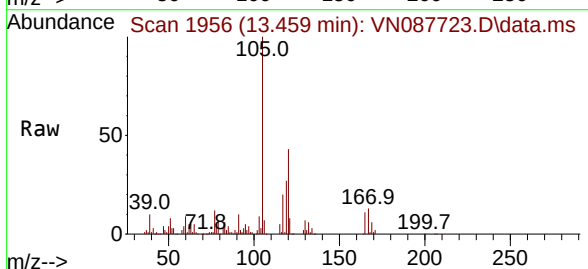
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

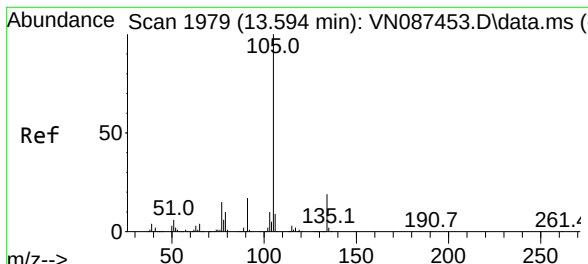
Tgt Ion:119 Resp: 176182  
Ion Ratio Lower Upper  
119 100  
91 68.5 0.0 141.6  
134 24.4 0.0 45.6



#80  
1,2,4-Trimethylbenzene  
Concen: 20.499 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:105 Resp: 215522  
Ion Ratio Lower Upper  
105 100  
120 43.1 0.0 87.2

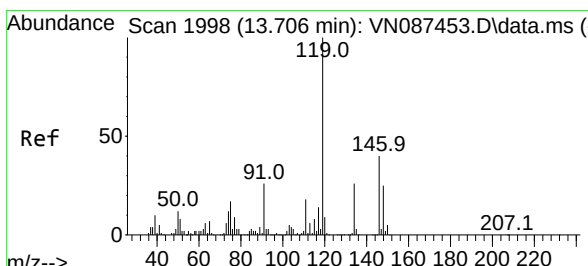
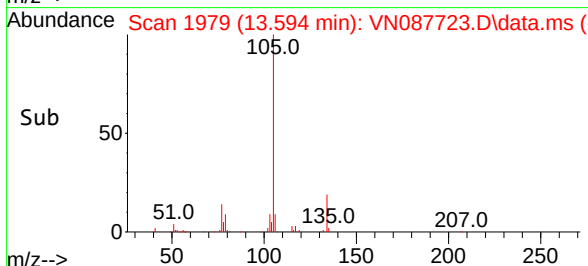
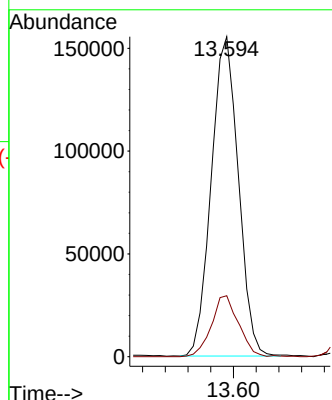
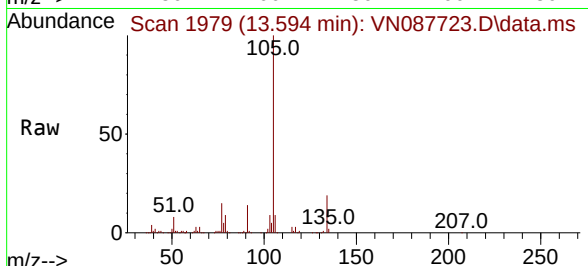




#81  
 sec-Butylbenzene  
 Concen: 19.938 ug/l  
 RT: 13.594 min Scan# 1979  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21

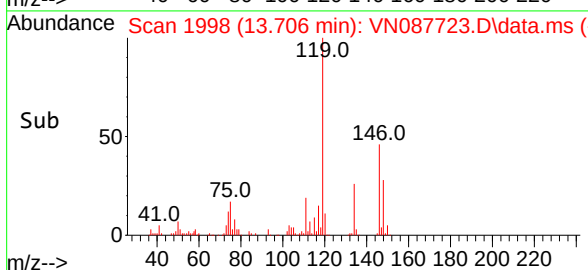
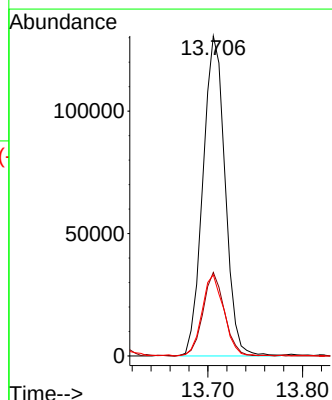
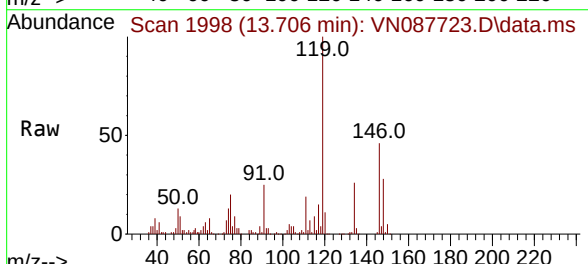
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

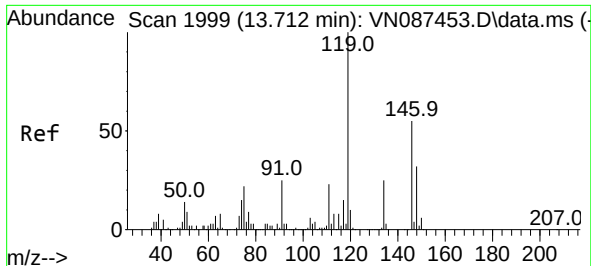
Tgt Ion:105 Resp: 257489  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 0.0 37.6



#82  
 p-Isopropyltoluene  
 Concen: 19.818 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087723.D  
 Acq: 04 Sep 2025 15:21

Tgt Ion:119 Resp: 212506  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 0.0 51.4  
 91 25.0 0.0 52.0

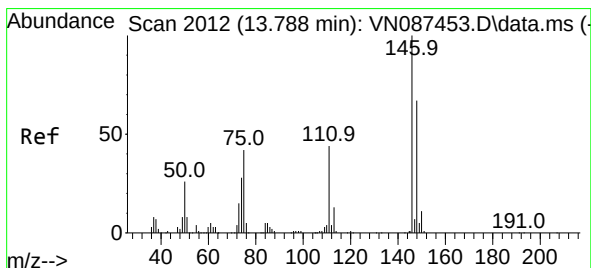
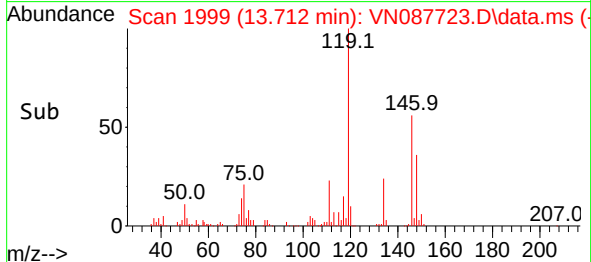
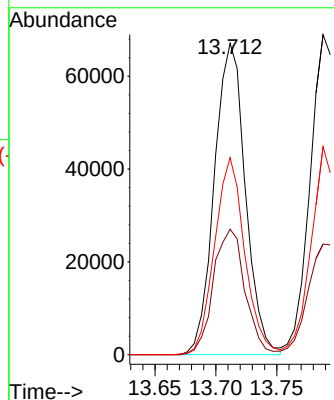
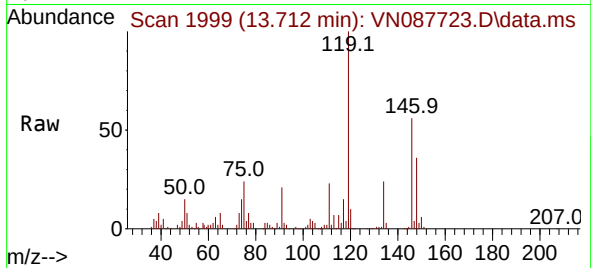




#83  
1,3-Dichlorobenzene  
Concen: 21.940 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

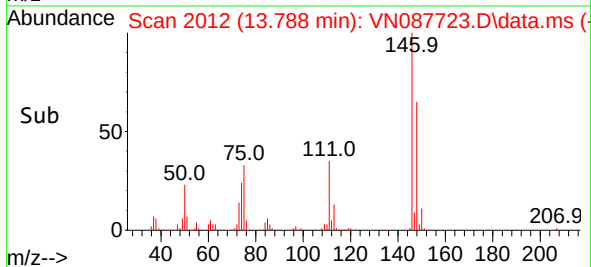
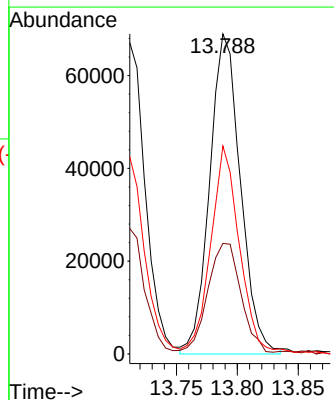
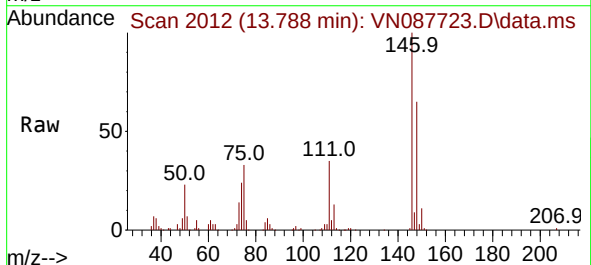
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

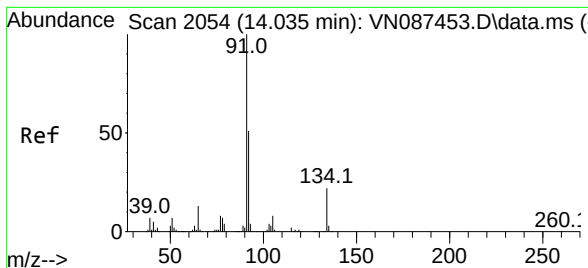
Tgt Ion:146 Resp: 119016  
Ion Ratio Lower Upper  
146 100  
111 41.0 21.9 65.5  
148 61.7 31.3 93.9



#84  
1,4-Dichlorobenzene  
Concen: 22.064 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:146 Resp: 121344  
Ion Ratio Lower Upper  
146 100  
111 37.9 21.1 63.1  
148 59.8 31.4 94.3





#85

n-Butylbenzene

Concen: 19.485 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

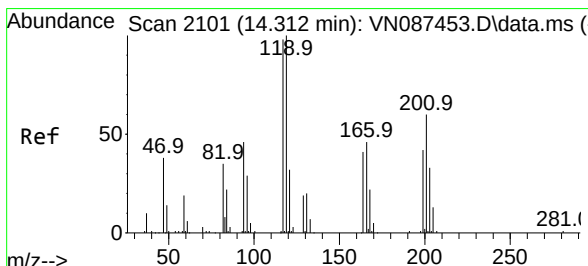
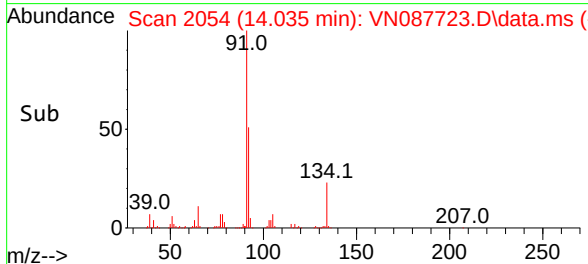
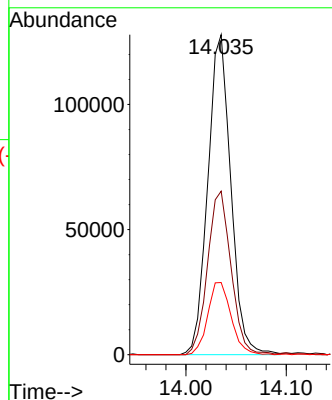
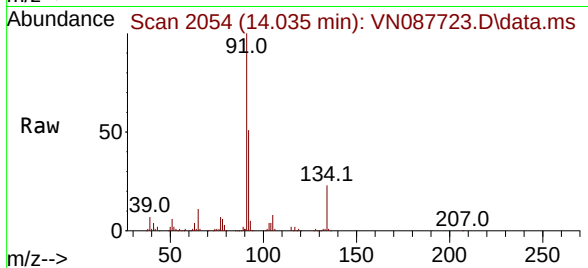
Tgt Ion: 91 Resp: 204421

Ion Ratio Lower Upper

91 100

92 52.0 0.0 106.6

134 23.0 0.0 44.4



#86

Hexachloroethane

Concen: 20.881 ug/l

RT: 14.306 min Scan# 2100

Delta R.T. -0.006 min

Lab File: VN087723.D

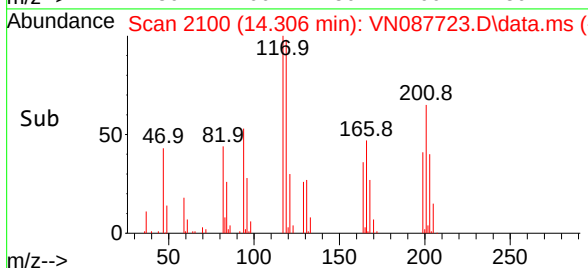
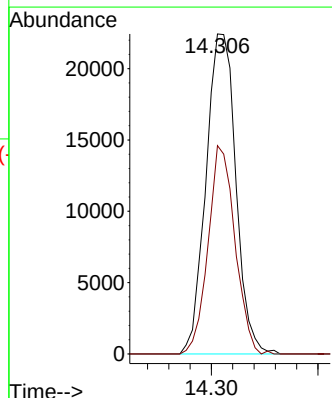
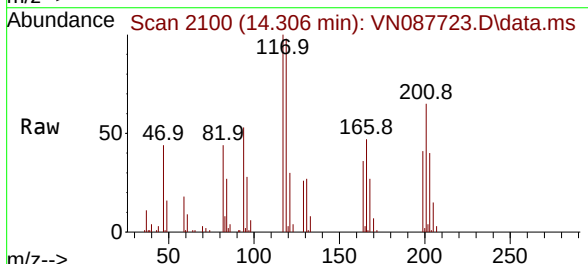
Acq: 04 Sep 2025 15:21

Tgt Ion: 117 Resp: 43724

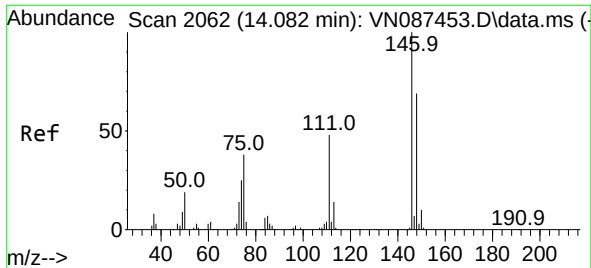
Ion Ratio Lower Upper

117 100

201 58.4 29.1 87.4



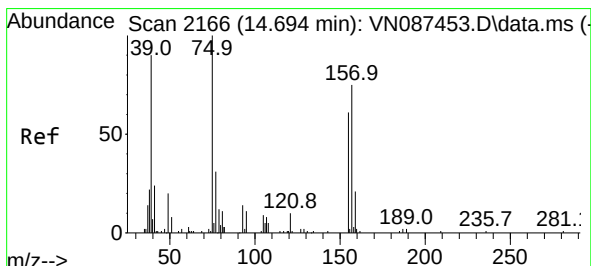
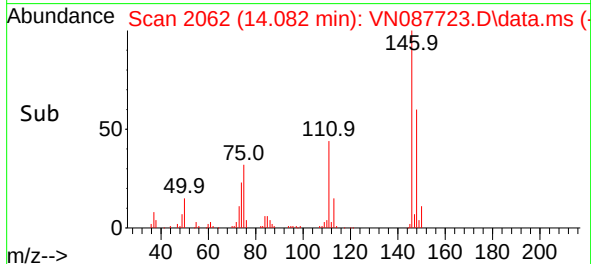
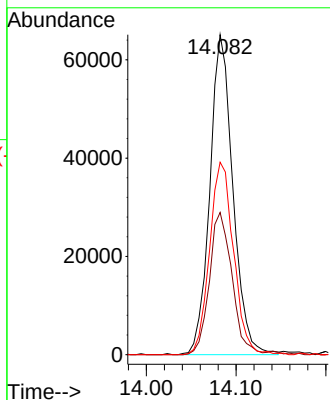
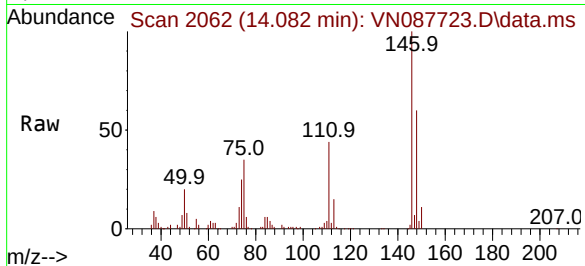




#87  
1,2-Dichlorobenzene  
Concen: 22.460 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

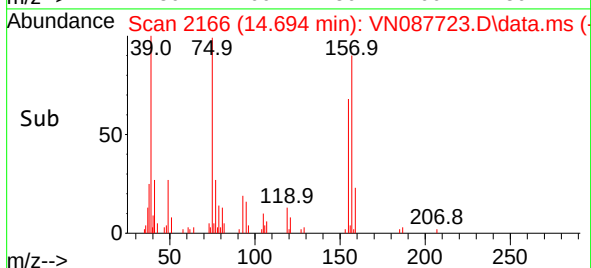
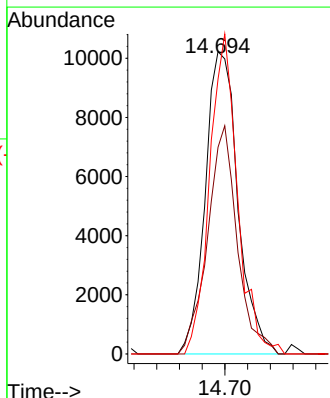
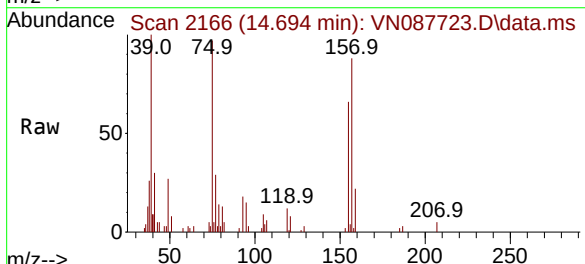
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

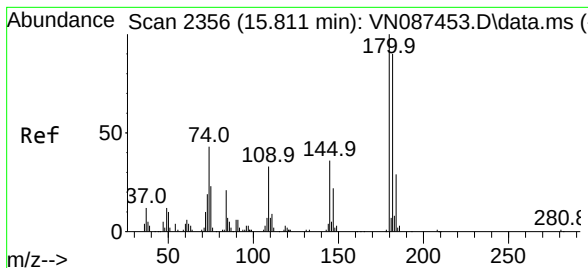
Tgt Ion:146 Resp: 116301  
Ion Ratio Lower Upper  
146 100  
111 43.5 22.9 68.7  
148 62.2 31.6 94.7



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 19.144 ug/l  
RT: 14.694 min Scan# 2166  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion: 75 Resp: 20419  
Ion Ratio Lower Upper  
75 100  
155 68.7 55.7 83.5  
157 89.9 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.672 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020EC

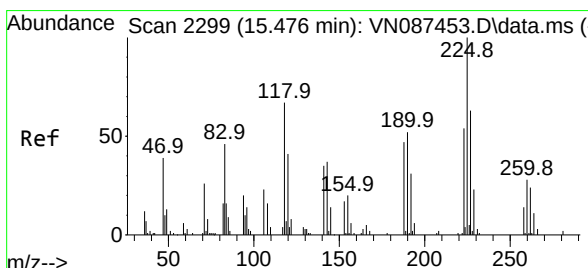
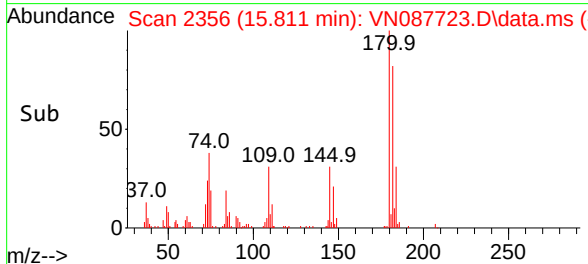
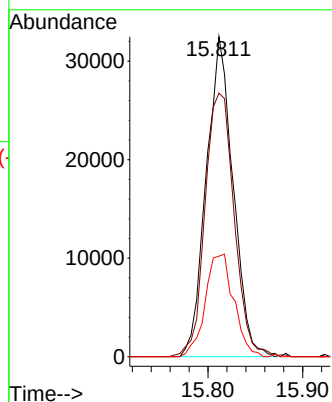
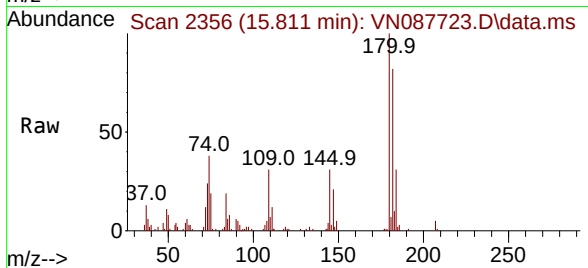
Tgt Ion:180 Resp: 63971

Ion Ratio Lower Upper

180 100

182 89.2 75.0 112.4

145 34.0 28.6 43.0



#90

Hexachlorobutadiene

Concen: 18.138 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

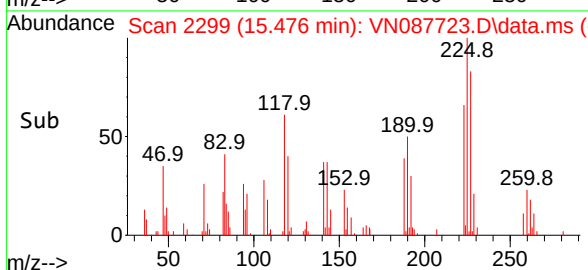
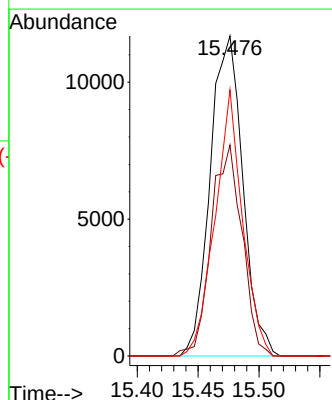
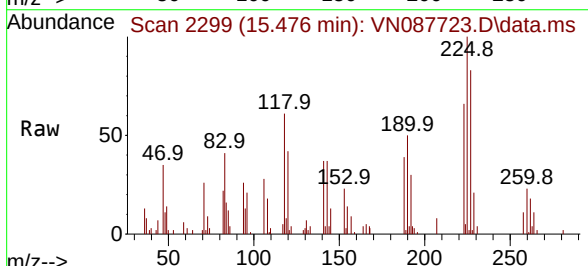
Tgt Ion:225 Resp: 21826

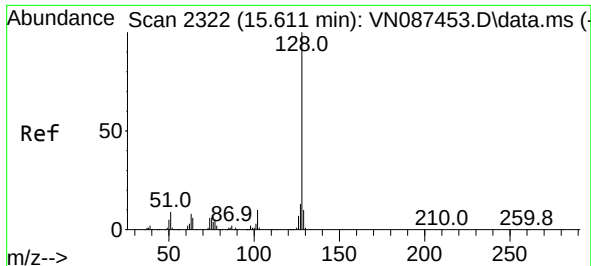
Ion Ratio Lower Upper

225 100

223 61.7 0.0 116.0

227 70.1 0.0 127.0

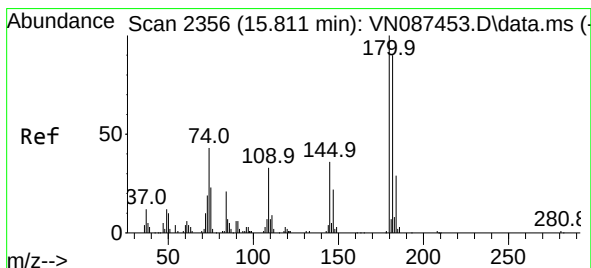
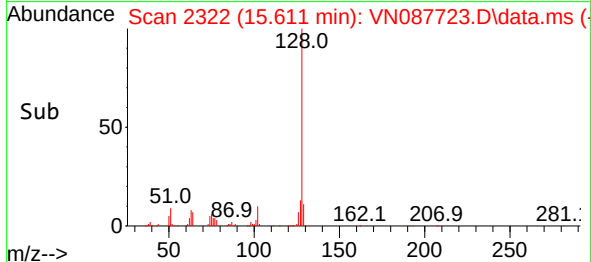
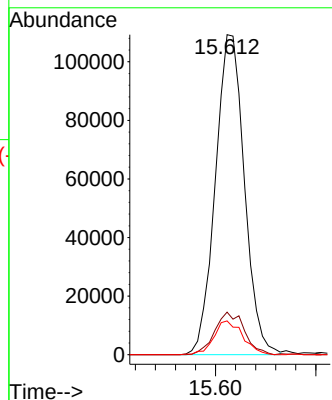
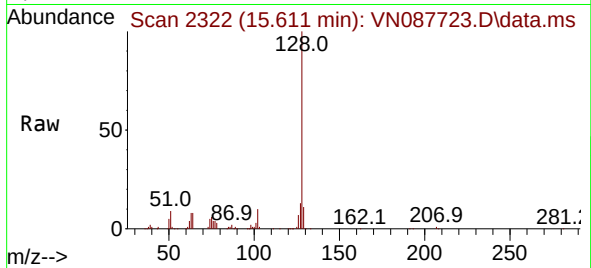




#91  
Naphthalene  
Concen: 18.638 ug/l  
RT: 15.611 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020EC

Tgt Ion:128 Resp: 219921  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.4  
129 10.5 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 20.672 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087723.D  
Acq: 04 Sep 2025 15:21

Tgt Ion:180 Resp: 63971  
Ion Ratio Lower Upper  
180 100  
182 89.2 0.0 187.4  
145 34.0 0.0 71.6

