

**DATA PACKAGE  
VOLATILE ORGANICS**

**PROJECT NAME : NJ WASTE WATER PT**

**ALLIANCE TECHNICAL GROUP, LLC - NEWARK**

**284 Sheffiled Stree**

**Suite 1**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : Q3015**

**ATTENTION : Mohammad Ahmed**



**Laboratory Certification ID # 20012**



|                                             |     |
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**Order ID :** Q3015

**Project ID :** NJ Waste Water PT

**Client :** Alliance Technical Group, LLC - Newark

### Lab Sample Number

Q3015-01  
Q3015-02  
Q3015-03  
Q3015-04  
Q3015-05  
Q3015-06  
Q3015-07  
Q3015-08  
Q3015-09  
Q3015-10  
Q3015-11  
Q3015-12  
Q3015-13  
Q3015-14  
Q3015-15  
Q3015-16  
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Q3015-18  
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Q3015-20  
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### Client Sample Number

WP0925-PT-VOA-WP  
WP0925-PT-VOA-WP  
WP0925-PT-BN-WP  
WP0925-PT-BN-WP  
WP0925-PT-BN-WP  
WP0925-PT-ACIDS-WP  
WP0925-PT-ACIDS-WP  
WP0925-PT-ACIDS-WP  
WP0925-PT-PEST-WP  
WP0925-PT-PEST-WP  
WP0925-PT-CHLR-WP  
WP0925-PT-CHLR-WP  
WP0925-PT-TXP-WP  
WP0925-PT-TXP-WP  
WP0925-PT-PCBW-WP  
WP0925-PT-PCBW-WP  
WP0925-PT-HERB-WP  
WP0925-RR-GAS-WP  
WP0925-RR-DIES-WP  
WP0925-RR-8011-WP  
WP0925-RR-PAH-WP  
WP0925-RR-TRIAZINE-WP

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 :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 3:25 pm, Oct 24, 2025*

Date: 9/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Alliance Technical Group, LLC - Newark**

**Project Name: NJ Waste Water PT**

**Project # N/A**

**Order ID # Q3015**

**Test Name: VOCMS Group1**

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

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

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

### **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 VOCMS Group1 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 met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

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

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.





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

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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.

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 3:26 pm, Oct 24, 2025*

Signature \_\_\_\_\_

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## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                                                                      |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| J     | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> </ul> |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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

ORDER ID: Q3015

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><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.                                                                                                                                                          |    |    | ✓   |
| 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.<br><br>The Blank Spike met requirements for all compounds.<br><br>The Blank Spike Duplicate met requirements for all compounds. |    | ✓  |     |
| 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:<br><br>The Holding Times were met for all analysis.                                                                                                                                                        |    | ✓  |     |

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

NA NO YES

ADDITIONAL COMMENTS:

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.

**REVIEWED**

By *Sohil Jodhani, QA/QC Director* at 9:58 am, Oct 24, 2025

QA REVIEW

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

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: 09/25/2025

## LAB CHRONICLE

|                 |                                        |                   |                      |
|-----------------|----------------------------------------|-------------------|----------------------|
| <b>OrderID:</b> | Q3015                                  | <b>OrderDate:</b> | 9/4/2025 10:14:00 AM |
| <b>Client:</b>  | Alliance Technical Group, LLC - Newark | <b>Project:</b>   | NJ Waste Water PT    |
| <b>Contact:</b> | Mohammad Ahmed                         | <b>Location:</b>  | QA Office,VOA Lab    |

| LabID           | ClientID                | Matrix       | Test         | Method   | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|-------------------------|--------------|--------------|----------|-----------------|-----------|-----------|-----------------|
| <b>Q3015-01</b> | <b>WP0925-PT-VOA-WP</b> | <b>Water</b> | VOCMS Group1 | 8260-Low | <b>09/02/25</b> |           | 09/16/25  | <b>09/04/25</b> |
| <b>Q3015-02</b> | <b>WP0925-PT-VOA-WP</b> | <b>Water</b> | VOCMS Group1 | 624.1    | <b>09/02/25</b> |           | 09/17/25  | <b>09/04/25</b> |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q3015

**Client:** Alliance Technical Group, LLC - Newark

| Sample ID         | Client ID                   | Matrix | Parameter                 | Concentration | C | MDL  | RDL  | Units |
|-------------------|-----------------------------|--------|---------------------------|---------------|---|------|------|-------|
| <b>Client ID:</b> | <b>WP0925-PT-VOA-WP</b>     |        |                           |               |   |      |      |       |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Chloromethane             | 0.71          | J | 0.64 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Vinyl Chloride            | 49.1          |   | 0.83 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Bromomethane              | 32.7          |   | 0.80 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,1-Dichloroethene        | 68.8          |   | 0.76 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Acetone                   | 130           |   | 4.60 | 25.0 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Methyl tert-Butyl Ether   | 87.7          |   | 0.77 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Methylene Chloride        | 68.4          |   | 0.86 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | trans-1,2-Dichloroethene  | 78.8          |   | 0.82 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 2-Butanone                | 140           |   | 2.00 | 25.0 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | cis-1,2-Dichloroethene    | 110           |   | 0.80 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Chloroform                | 86.4          |   | 0.55 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Benzene                   | 100           |   | 0.45 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,2-Dichloroethane        | 29.3          |   | 0.50 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Trichloroethene           | 87.6          |   | 0.49 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Dibromomethane            | 110           |   | 0.59 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Bromodichloromethane      | 15.3          |   | 0.64 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Toluene                   | 32.2          |   | 0.46 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | t-1,3-Dichloropropene     | 55.8          |   | 0.72 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | cis-1,3-Dichloropropene   | 90.1          |   | 0.67 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,1,2-Trichloroethane     | 97.4          |   | 0.45 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 2-Hexanone                | 86.6          |   | 3.20 | 25.0 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Dibromochloromethane      | 65.7          |   | 0.66 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,2-Dibromoethane         | 30.9          |   | 0.56 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Tetrachloroethene         | 73.0          |   | 0.84 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Chlorobenzene             | 21.8          |   | 0.47 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,1,1,2-Tetrachloroethane | 51.2          |   | 0.62 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Ethyl Benzene             | 45.6          |   | 0.56 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Total Xylenes             | 250           |   | 1.97 | 15.0 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | m/p-Xylenes               | 110           |   | 1.30 | 10.0 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | o-Xylene                  | 140           |   | 0.67 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Bromoform                 | 17.1          |   | 0.94 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,1,2,2-Tetrachloroethane | 66.6          |   | 0.44 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,2,3-Trichloropropane    | 83.6          |   | 0.62 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | 1,4-Dichlorobenzene       | 110           |   | 0.81 | 5.00 | ug/L  |
| Q3015-02          | WP0925-PT-VOA- <sup>1</sup> | Water  | Naphthalene               | 76.0          |   | 1.00 | 5.00 | ug/L  |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q3015

**Client:** Alliance Technical Group, LLC - Newark

| Sample ID            | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|----------------------|-----------|--------|-----------|---------------|---|-----|-----|-------|
| Total Voc :          |           |        |           | 2450          |   |     |     |       |
| Total Concentration: |           |        |           | 2450          |   |     |     |       |





# QC SUMMARY

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### Surrogate Summary

SDG No.: **Q3015**

Client: **Alliance Technical Group, LLC - Newark**

Analytical Method: **SW624.1**

| Lab Sample ID | Client ID        | Parameter             | Spike | Result | Recovery (%) | Qual | Limits (%) |      |
|---------------|------------------|-----------------------|-------|--------|--------------|------|------------|------|
|               |                  |                       |       |        |              |      | Low        | High |
| Q3015-02      | WP0925-PT-VOA-WP | 1,2-Dichloroethane-d4 | 30    | 28.4   | 95           |      | 91         | 110  |
|               |                  | Toluene-d8            | 30    | 28.6   | 95           |      | 91         | 112  |
|               |                  | 4-Bromofluorobenzene  | 30    | 28.0   | 93           |      | 63         | 112  |
| VN0917WBL01   | VN0917WBL01      | 1,2-Dichloroethane-d4 | 30    | 28.8   | 96           |      | 91         | 110  |
|               |                  | Toluene-d8            | 30    | 28.9   | 96           |      | 91         | 112  |
|               |                  | 4-Bromofluorobenzene  | 30    | 26.4   | 88           |      | 63         | 112  |
| VN0917WBS01   | VN0917WBS01      | 1,2-Dichloroethane-d4 | 30    | 30.0   | 100          |      | 91         | 110  |
|               |                  | Toluene-d8            | 30    | 29.8   | 99           |      | 91         | 112  |
|               |                  | 4-Bromofluorobenzene  | 30    | 30.4   | 101          |      | 63         | 112  |
| VN0917WBSD0   | VN0917WBSD01     | 1,2-Dichloroethane-d4 | 30    | 28.8   | 96           |      | 91         | 110  |
|               |                  | Toluene-d8            | 30    | 29.4   | 98           |      | 91         | 112  |
|               |                  | 4-Bromofluorobenzene  | 30    | 30.4   | 101          |      | 63         | 112  |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.: Q3015 SW-846 Analytical Method: SW624.1  
Client: Alliance Technical Group, LLC - New Datafile : VN087870.D

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|-------------|-----|
| VN0917WBS01   | Dichlorodifluoromethane        | 20    | 20.2   | ug/L | 101 |     |      | 72  | 118         |     |
|               | Chloromethane                  | 20    | 16.7   | ug/L | 84  |     |      | 1   | 205         |     |
|               | Vinyl Chloride                 | 20    | 16.9   | ug/L | 85  |     |      | 5   | 195         |     |
|               | Ethyl Acetate                  | 20    | 17.6   | ug/L | 88  |     |      | 68  | 140         |     |
|               | Bromomethane                   | 20    | 15.0   | ug/L | 75  |     |      | 15  | 185         |     |
|               | Chloroethane                   | 20    | 15.8   | ug/L | 79  |     |      | 40  | 160         |     |
|               | Trichlorofluoromethane         | 20    | 18.3   | ug/L | 92  |     |      | 50  | 150         |     |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 19.5   | ug/L | 98  |     |      | 64  | 127         |     |
|               | 1,1-Dichloroethene             | 20    | 18.2   | ug/L | 91  |     |      | 50  | 150         |     |
|               | Acrolein                       | 100   | 120    | ug/L | 120 |     |      | 60  | 140         |     |
|               | Acrylonitrile                  | 100   | 98.6   | ug/L | 99  |     |      | 60  | 140         |     |
|               | Acetone                        | 100   | 92.4   | ug/L | 92  |     |      | 41  | 148         |     |
|               | Carbon disulfide               | 20    | 17.7   | ug/L | 89  |     |      | 76  | 107         |     |
|               | Methyl tert-butyl Ether        | 20    | 20.5   | ug/L | 103 |     |      | 82  | 114         |     |
|               | Methylene Chloride             | 20    | 19.7   | ug/L | 99  |     |      | 60  | 140         |     |
|               | trans-1,2-Dichloroethene       | 20    | 20.3   | ug/L | 102 |     |      | 70  | 130         |     |
|               | Vinyl Acetate                  | 100   | 85.6   | ug/L | 86  |     |      | 25  | 181         |     |
|               | 1,1-Dichloroethane             | 20    | 19.8   | ug/L | 99  |     |      | 70  | 130         |     |
|               | 2-Butanone                     | 100   | 94.9   | ug/L | 95  |     |      | 69  | 129         |     |
|               | Carbon Tetrachloride           | 20    | 19.6   | ug/L | 98  |     |      | 70  | 130         |     |
|               | 2,2-Dichloropropane            | 20    | 20.8   | ug/L | 104 |     |      | 62  | 139         |     |
|               | cis-1,2-Dichloroethene         | 20    | 20.1   | ug/L | 101 |     |      | 81  | 112         |     |
|               | Chloroform                     | 20    | 20.1   | ug/L | 101 |     |      | 70  | 135         |     |
|               | 1,1,1-Trichloroethane          | 20    | 19.8   | ug/L | 99  |     |      | 70  | 130         |     |
|               | 1,1-Dichloropropene            | 20    | 19.0   | ug/L | 95  |     |      | 70  | 139         |     |
|               | Benzene                        | 20    | 18.8   | ug/L | 94  |     |      | 65  | 135         |     |
|               | 1,2-Dichloroethane             | 20    | 18.6   | ug/L | 93  |     |      | 70  | 130         |     |
|               | Trichloroethene                | 20    | 20.2   | ug/L | 101 |     |      | 65  | 135         |     |
|               | 1,2-Dichloropropane            | 20    | 18.9   | ug/L | 95  |     |      | 35  | 165         |     |
|               | Dibromomethane                 | 20    | 18.4   | ug/L | 92  |     |      | 72  | 138         |     |
|               | Bromodichloromethane           | 20    | 18.8   | ug/L | 94  |     |      | 65  | 135         |     |
|               | 4-Methyl-2-Pentanone           | 100   | 94.5   | ug/L | 95  |     |      | 73  | 131         |     |
|               | Toluene                        | 20    | 19.6   | ug/L | 98  |     |      | 70  | 130         |     |
|               | t-1,3-Dichloropropene          | 20    | 18.4   | ug/L | 92  |     |      | 50  | 150         |     |
|               | cis-1,3-Dichloropropene        | 20    | 18.5   | ug/L | 93  |     |      | 25  | 175         |     |
|               | 1,1,2-Trichloroethane          | 20    | 18.9   | ug/L | 95  |     |      | 70  | 130         |     |
|               | 1,3-Dichloropropane            | 20    | 19.2   | ug/L | 96  |     |      | 70  | 141         |     |
|               | 2-Chloroethyl vinyl ether      | 100   | 83.8   | ug/L | 84  |     |      | 1   | 225         |     |
|               | 2-Hexanone                     | 100   | 92.4   | ug/L | 92  |     |      | 72  | 128         |     |
|               | Dibromochloromethane           | 20    | 20.0   | ug/L | 100 |     |      | 70  | 135         |     |
|               | 1,2-Dibromoethane              | 20    | 18.9   | ug/L | 95  |     |      | 86  | 114         |     |
|               | Tetrachloroethene              | 20    | 22.6   | ug/L | 113 |     |      | 70  | 130         |     |
|               | Chlorobenzene                  | 20    | 20.7   | ug/L | 104 |     |      | 65  | 135         |     |
|               | 1,1,1,2-Tetrachloroethane      | 20    | 20.5   | ug/L | 103 |     |      | 63  | 138         |     |
|               | Ethyl Benzene                  | 20    | 20.2   | ug/L | 101 |     |      | 60  | 140         |     |
|               | m/p-Xylenes                    | 40    | 40.8   | ug/L | 102 |     |      | 87  | 111         |     |
|               | o-Xylene                       | 20    | 20.2   | ug/L | 101 |     |      | 87  | 111         |     |
|               | Styrene                        | 20    | 19.5   | ug/L | 98  |     |      | 85  | 106         |     |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                                            |                           |                   |
|-----------------|--------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q3015</u>                               | <b>Analytical Method:</b> | <u>SW624.1</u>    |
| <b>Client:</b>  | <u>Alliance Technical Group, LLC - New</u> | <b>Datafile :</b>         | <u>VN087870.D</u> |

| Lab Sample ID | Parameter                   | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VN0917WBS01   | Bromoform                   | 20    | 20.2   | ug/L | 101 |     |      | 70  | 130            |     |
|               | Isopropylbenzene            | 20    | 21.1   | ug/L | 106 |     |      | 86  | 112            |     |
|               | 1,1,2,2-Tetrachloroethane   | 20    | 19.9   | ug/L | 100 |     |      | 60  | 140            |     |
|               | 1,2,3-Trichloropropane      | 20    | 19.6   | ug/L | 98  |     |      | 61  | 148            |     |
|               | Bromobenzene                | 20    | 20.5   | ug/L | 103 |     |      | 59  | 142            |     |
|               | N-propylbenzene             | 20    | 20.7   | ug/L | 104 |     |      | 67  | 139            |     |
|               | 2-Chlorotoluene             | 20    | 20.2   | ug/L | 101 |     |      | 66  | 138            |     |
|               | 1,3,5-Trimethylbenzene      | 20    | 20.6   | ug/L | 103 |     |      | 66  | 139            |     |
|               | 4-Chlorotoluene             | 20    | 20.3   | ug/L | 102 |     |      | 66  | 141            |     |
|               | 1,2,4-Trimethylbenzene      | 20    | 20.2   | ug/L | 101 |     |      | 63  | 142            |     |
|               | Sec-butylbenzene            | 20    | 21.4   | ug/L | 107 |     |      | 63  | 144            |     |
|               | p-Isopropyltoluene          | 20    | 22.1   | ug/L | 111 |     |      | 57  | 147            |     |
|               | 1,3-Dichlorobenzene         | 20    | 21.6   | ug/L | 108 |     |      | 70  | 130            |     |
|               | 1,4-Dichlorobenzene         | 20    | 21.7   | ug/L | 109 |     |      | 65  | 135            |     |
|               | n-Butylbenzene              | 20    | 22.0   | ug/L | 110 |     |      | 49  | 157            |     |
|               | 1,2-Dichlorobenzene         | 20    | 21.6   | ug/L | 108 |     |      | 65  | 135            |     |
|               | 1,2-Dibromo-3-Chloropropane | 20    | 20.0   | ug/L | 100 |     |      | 69  | 122            |     |
|               | 1,2,4-Trichlorobenzene      | 20    | 22.0   | ug/L | 110 |     |      | 61  | 118            |     |
|               | Hexachlorobutadiene         | 20    | 27.0   | ug/L | 135 |     |      | 16  | 187            |     |
|               | Naphthalene                 | 20    | 20.3   | ug/L | 102 |     |      | 45  | 152            |     |
|               | 1,2,3-Trichlorobenzene      | 20    | 22.0   | ug/L | 110 |     |      | 38  | 159            |     |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

|          |                                     |            |                    |         |
|----------|-------------------------------------|------------|--------------------|---------|
| SDG No.: | Q3015                               | SW-846     | Analytical Method: | SW624.1 |
| Client:  | Alliance Technical Group, LLC - New | Datafile : | VN087871.D         |         |

| Lab Sample ID | Parameter                      | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|-----|-------------|-----|
| VN0917WBSD01  | Dichlorodifluoromethane        | 20    | 20.1   | ug/L | 101 | 0   |      | 72  | 118         | 20  |
|               | Chloromethane                  | 20    | 16.4   | ug/L | 82  | 2   |      | 1   | 205         | 20  |
|               | Vinyl Chloride                 | 20    | 15.8   | ug/L | 79  | 7   |      | 5   | 195         | 20  |
|               | Ethyl Acetate                  | 20    | 19.5   | ug/L | 98  | 11  |      | 68  | 140         | 20  |
|               | Bromomethane                   | 20    | 14.3   | ug/L | 72  | 4   |      | 15  | 185         | 20  |
|               | Chloroethane                   | 20    | 14.7   | ug/L | 74  | 7   |      | 40  | 160         | 20  |
|               | Trichlorofluoromethane         | 20    | 18.0   | ug/L | 90  | 2   |      | 50  | 150         | 20  |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 19.2   | ug/L | 96  | 2   |      | 64  | 127         | 20  |
|               | 1,1-Dichloroethene             | 20    | 16.7   | ug/L | 84  | 8   |      | 50  | 150         | 20  |
|               | Acrolein                       | 100   | 120    | ug/L | 120 | 0   |      | 60  | 140         | 20  |
|               | Acrylonitrile                  | 100   | 99.8   | ug/L | 100 | 1   |      | 60  | 140         | 20  |
|               | Acetone                        | 100   | 89.7   | ug/L | 90  | 2   |      | 41  | 148         | 20  |
|               | Carbon disulfide               | 20    | 17.0   | ug/L | 85  | 5   |      | 76  | 107         | 20  |
|               | Methyl tert-butyl Ether        | 20    | 20.4   | ug/L | 102 | 1   |      | 82  | 114         | 20  |
|               | Methylene Chloride             | 20    | 20.5   | ug/L | 103 | 4   |      | 60  | 140         | 20  |
|               | trans-1,2-Dichloroethene       | 20    | 18.8   | ug/L | 94  | 8   |      | 70  | 130         | 20  |
|               | Vinyl Acetate                  | 100   | 100    | ug/L | 100 | 15  |      | 25  | 181         | 20  |
|               | 1,1-Dichloroethane             | 20    | 19.9   | ug/L | 100 | 1   |      | 70  | 130         | 20  |
|               | 2-Butanone                     | 100   | 96.7   | ug/L | 97  | 2   |      | 69  | 129         | 20  |
|               | Carbon Tetrachloride           | 20    | 20.2   | ug/L | 101 | 3   |      | 70  | 130         | 20  |
|               | 2,2-Dichloropropane            | 20    | 20.2   | ug/L | 101 | 3   |      | 62  | 139         | 20  |
|               | cis-1,2-Dichloroethene         | 20    | 19.9   | ug/L | 100 | 1   |      | 81  | 112         | 20  |
|               | Chloroform                     | 20    | 19.7   | ug/L | 99  | 2   |      | 70  | 135         | 20  |
|               | 1,1,1-Trichloroethane          | 20    | 20.4   | ug/L | 102 | 3   |      | 70  | 130         | 20  |
|               | 1,1-Dichloropropene            | 20    | 18.5   | ug/L | 93  | 2   |      | 70  | 139         | 20  |
|               | Benzene                        | 20    | 18.9   | ug/L | 95  | 1   |      | 65  | 135         | 20  |
|               | 1,2-Dichloroethane             | 20    | 18.6   | ug/L | 93  | 0   |      | 70  | 130         | 20  |
|               | Trichloroethene                | 20    | 20.4   | ug/L | 102 | 1   |      | 65  | 135         | 20  |
|               | 1,2-Dichloropropane            | 20    | 19.0   | ug/L | 95  | 0   |      | 35  | 165         | 20  |
|               | Dibromomethane                 | 20    | 19.0   | ug/L | 95  | 3   |      | 72  | 138         | 20  |
|               | Bromodichloromethane           | 20    | 19.1   | ug/L | 96  | 2   |      | 65  | 135         | 20  |
|               | 4-Methyl-2-Pentanone           | 100   | 99.6   | ug/L | 100 | 5   |      | 73  | 131         | 20  |
|               | Toluene                        | 20    | 19.8   | ug/L | 99  | 1   |      | 70  | 130         | 20  |
|               | t-1,3-Dichloropropene          | 20    | 19.1   | ug/L | 96  | 4   |      | 50  | 150         | 20  |
|               | cis-1,3-Dichloropropene        | 20    | 19.0   | ug/L | 95  | 2   |      | 25  | 175         | 20  |
|               | 1,1,2-Trichloroethane          | 20    | 20.3   | ug/L | 102 | 7   |      | 70  | 130         | 20  |
|               | 1,3-Dichloropropane            | 20    | 19.1   | ug/L | 96  | 0   |      | 70  | 141         | 20  |
|               | 2-Chloroethyl vinyl ether      | 100   | 92.5   | ug/L | 93  | 10  |      | 1   | 225         | 20  |
|               | 2-Hexanone                     | 100   | 99.3   | ug/L | 99  | 7   |      | 72  | 128         | 20  |
|               | Dibromochloromethane           | 20    | 20.6   | ug/L | 103 | 3   |      | 70  | 135         | 20  |
|               | 1,2-Dibromoethane              | 20    | 20.1   | ug/L | 101 | 6   |      | 86  | 114         | 20  |
|               | Tetrachloroethene              | 20    | 22.3   | ug/L | 112 | 1   |      | 70  | 130         | 20  |
|               | Chlorobenzene                  | 20    | 20.8   | ug/L | 104 | 0   |      | 65  | 135         | 20  |
|               | 1,1,1,2-Tetrachloroethane      | 20    | 21.5   | ug/L | 108 | 5   |      | 63  | 138         | 20  |
|               | Ethyl Benzene                  | 20    | 20.1   | ug/L | 101 | 0   |      | 60  | 140         | 20  |
|               | m/p-Xylenes                    | 40    | 41.8   | ug/L | 104 | 2   |      | 87  | 111         | 20  |
|               | o-Xylene                       | 20    | 20.3   | ug/L | 102 | 1   |      | 87  | 111         | 20  |
|               | Styrene                        | 20    | 19.7   | ug/L | 99  | 1   |      | 85  | 106         | 20  |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                                            |                           |                   |
|-----------------|--------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q3015</u>                               | <b>Analytical Method:</b> | <u>SW624.1</u>    |
| <b>Client:</b>  | <u>Alliance Technical Group, LLC - New</u> | <b>Datafile :</b>         | <u>VN087871.D</u> |

| Lab Sample ID | Parameter                   | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VN0917WBSD01  | Bromoform                   | 20    | 20.9   | ug/L | 104 | 3   |      | 70  | 130            | 20  |
|               | Isopropylbenzene            | 20    | 21.2   | ug/L | 106 | 0   |      | 86  | 112            | 20  |
|               | 1,1,2,2-Tetrachloroethane   | 20    | 21.4   | ug/L | 107 | 7   |      | 60  | 140            | 20  |
|               | 1,2,3-Trichloropropane      | 20    | 17.7   | ug/L | 89  | 10  |      | 61  | 148            | 20  |
|               | Bromobenzene                | 20    | 21.6   | ug/L | 108 | 5   |      | 59  | 142            | 20  |
|               | N-propylbenzene             | 20    | 20.9   | ug/L | 104 | 0   |      | 67  | 139            | 20  |
|               | 2-Chlorotoluene             | 20    | 20.8   | ug/L | 104 | 3   |      | 66  | 138            | 20  |
|               | 1,3,5-Trimethylbenzene      | 20    | 21.7   | ug/L | 109 | 6   |      | 66  | 139            | 20  |
|               | 4-Chlorotoluene             | 20    | 20.9   | ug/L | 104 | 2   |      | 66  | 141            | 20  |
|               | 1,2,4-Trimethylbenzene      | 20    | 20.2   | ug/L | 101 | 0   |      | 63  | 142            | 20  |
|               | Sec-butylbenzene            | 20    | 22.0   | ug/L | 110 | 3   |      | 63  | 144            | 20  |
|               | p-Isopropyltoluene          | 20    | 22.5   | ug/L | 113 | 2   |      | 57  | 147            | 20  |
|               | 1,3-Dichlorobenzene         | 20    | 21.4   | ug/L | 107 | 1   |      | 70  | 130            | 20  |
|               | 1,4-Dichlorobenzene         | 20    | 21.8   | ug/L | 109 | 0   |      | 65  | 135            | 20  |
|               | n-Butylbenzene              | 20    | 22.5   | ug/L | 113 | 3   |      | 49  | 157            | 20  |
|               | 1,2-Dichlorobenzene         | 20    | 22.0   | ug/L | 110 | 2   |      | 65  | 135            | 20  |
|               | 1,2-Dibromo-3-Chloropropane | 20    | 21.7   | ug/L | 109 | 9   |      | 69  | 122            | 20  |
|               | 1,2,4-Trichlorobenzene      | 20    | 23.2   | ug/L | 116 | 5   |      | 61  | 118            | 20  |
|               | Hexachlorobutadiene         | 20    | 27.7   | ug/L | 139 | 3   |      | 16  | 187            | 20  |
|               | Naphthalene                 | 20    | 21.6   | ug/L | 108 | 6   |      | 45  | 152            | 20  |
|               | 1,2,3-Trichlorobenzene      | 20    | 23.2   | ug/L | 116 | 5   |      | 38  | 159            | 20  |

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0917WBL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab File ID: VN087872.D

Lab Sample ID: VN0917WBL01

Date Analyzed: 09/17/2025

Time Analyzed: 12:03

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 |
|-------------------|------------------|----------------|------------------|
| VN0917WBS01       | VN0917WBS01      | VN087870.D     | 09/17/2025       |
| VN0917WBSD01      | VN0917WBSD01     | VN087871.D     | 09/17/2025       |
| WP0925-PT-VOA-WP  | Q3015-02         | VN087873.D     | 09/17/2025       |

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: ALLI03Lab Code: ACESDG NO.: Q3015Lab File ID: VN087713.DBFB Injection Date: 09/04/2025Instrument ID: MSVOA\_NBFB Injection Time: 10:10GC 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 |
|-----------|---------------|-------------|---------------|---------------|
| VSTDIC005 | VSTDIC005     | VN087725.D  | 09/04/2025    | 16:23         |
| VSTDIC020 | VSTDIC020     | VN087726.D  | 09/04/2025    | 16:44         |
| VSTDIC050 | VSTDIC050     | VN087727.D  | 09/04/2025    | 17:05         |
| VSTDIC100 | VSTDIC100     | VN087728.D  | 09/04/2025    | 17:25         |
| VSTDIC150 | VSTDIC150     | VN087729.D  | 09/04/2025    | 17:46         |



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: ALLI03Lab Code: ACESDG NO.: Q3015Lab File ID: VN087868.DBFB Injection Date: 09/17/2025Instrument ID: MSVOA\_NBFB Injection Time: 08:24GC 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                   |
| 75  | 30.0 - 60.0% of mass 95            | 56.6                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.1                  |
| 173 | Less than 2.0% of mass 174         | 0.8 ( 1.1 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 72.7                 |
| 175 | 5.0 - 9.0% of mass 174             | 4.7 ( 6.4 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 70.5 ( 97 ) 1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.2 ( 5.9 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID        | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|---------------|-------------|---------------|---------------|
| VSTDCCC020       | VSTDCCC020    | VN087869.D  | 09/17/2025    | 09:42         |
| VN0917WBS01      | VN0917WBS01   | VN087870.D  | 09/17/2025    | 10:55         |
| VN0917WBSD01     | VN0917WBSD01  | VN087871.D  | 09/17/2025    | 11:30         |
| VN0917WBL01      | VN0917WBL01   | VN087872.D  | 09/17/2025    | 12:03         |
| WP0925-PT-VOA-WP | Q3015-02      | VN087873.D  | 09/17/2025    | 12:38         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03  
Lab Code: ACE SDG NO.: Q3015  
Lab File ID: VN087869.D Date Analyzed: 09/17/2025  
Instrument ID: MSVOA\_N Time Analyzed: 09:42  
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      | 52147         | 7.79  | 281875        | 9.08  | 258937        | 11.84  |
| UPPER LIMIT      | 104294        | 8.294 | 563750        | 9.583 | 517874        | 12.341 |
| LOWER LIMIT      | 26073.5       | 7.294 | 140938        | 8.583 | 129469        | 11.341 |
| EPA SAMPLE NO.   |               |       |               |       |               |        |
| WP0925-PT-VOA-WP | 56339         | 7.80  | 293605        | 9.08  | 277718        | 11.85  |
| VN0917WBL01      | 50672         | 7.80  | 260263        | 9.08  | 234698        | 11.85  |
| VN0917WBS01      | 53476         | 7.79  | 296032        | 9.08  | 268776        | 11.85  |
| VN0917WBSD01     | 52165         | 7.79  | 278561        | 9.08  | 250388        | 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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

### Report of Analysis

|                    |                                        |           |                 |              |    |
|--------------------|----------------------------------------|-----------|-----------------|--------------|----|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: | 09/02/25     |    |
| Project:           | NJ Waste Water PT                      |           | Date Received:  | 09/04/25     |    |
| Client Sample ID:  | WP0925-PT-VOA-WP                       |           | SDG No.:        | Q3015        |    |
| Lab Sample ID:     | Q3015-02                               |           | Matrix:         | Water        |    |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000         | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |    |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |    |
| Prep Method :      |                                        |           |                 |              |    |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087873.D        | 1         | 09/17/25 12:38 | VN091725      |

| 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            | 0.71  | J         | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride           | 49.1  |           | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane             | 32.7  |           | 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  |
| 75-35-4        | 1,1-Dichloroethene       | 68.8  |           | 0.76 | 5.00       | ug/L  |
| 107-02-8       | Acrolein                 | 6.60  | U         | 6.60 | 25.0       | ug/L  |
| 107-13-1       | Acrylonitrile            | 2.80  | U         | 2.80 | 25.0       | ug/L  |
| 67-64-1        | Acetone                  | 130   |           | 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  | 87.7  |           | 0.77 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride       | 68.4  |           | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene | 78.8  |           | 0.82 | 5.00       | ug/L  |
| 108-05-4       | Vinyl Acetate            | 3.20  | U         | 3.20 | 25.0       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane       | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone               | 140   |           | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride     | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 594-20-7       | 2,2-Dichloropropane      | 0.66  | U         | 0.66 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene   | 110   |           | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform               | 86.4  |           | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane    | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 563-58-6       | 1,1-Dichloropropene      | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 71-43-2        | Benzene                  | 100   |           | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane       | 29.3  |           | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene          | 87.6  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane      | 0.46  | U         | 0.46 | 5.00       | ug/L  |
| 74-95-3        | Dibromomethane           | 110   |           | 0.59 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane     | 15.3  |           | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone     | 3.00  | U         | 3.00 | 25.0       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |    |
|--------------------|----------------------------------------|-----------|-----------------|--------------|----|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: | 09/02/25     |    |
| Project:           | NJ Waste Water PT                      |           | Date Received:  | 09/04/25     |    |
| Client Sample ID:  | WP0925-PT-VOA-WP                       |           | SDG No.:        | Q3015        |    |
| Lab Sample ID:     | Q3015-02                               |           | Matrix:         | Water        |    |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000         | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |    |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |    |
| Prep Method :      |                                        |           |                 |              |    |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087873.D        | 1         | 09/17/25 12:38 | VN091725      |

| CAS Number  | Parameter                 | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|-------|-----------|------|------------|-------|
| 108-88-3    | Toluene                   | 32.2  |           | 0.46 | 5.00       | ug/L  |
| 10061-02-6  | t-1,3-Dichloropropene     | 55.8  |           | 0.72 | 5.00       | ug/L  |
| 10061-01-5  | cis-1,3-Dichloropropene   | 90.1  |           | 0.67 | 5.00       | ug/L  |
| 79-00-5     | 1,1,2-Trichloroethane     | 97.4  |           | 0.45 | 5.00       | ug/L  |
| 142-28-9    | 1,3-Dichloropropane       | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 110-75-8    | 2-Chloroethyl vinyl ether | 4.60  | U         | 4.60 | 25.0       | ug/L  |
| 591-78-6    | 2-Hexanone                | 86.6  |           | 3.20 | 25.0       | ug/L  |
| 124-48-1    | Dibromochloromethane      | 65.7  |           | 0.66 | 5.00       | ug/L  |
| 106-93-4    | 1,2-Dibromoethane         | 30.9  |           | 0.56 | 5.00       | ug/L  |
| 127-18-4    | Tetrachloroethene         | 73.0  |           | 0.84 | 5.00       | ug/L  |
| 108-90-7    | Chlorobenzene             | 21.8  |           | 0.47 | 5.00       | ug/L  |
| 630-20-6    | 1,1,1,2-Tetrachloroethane | 51.2  |           | 0.62 | 5.00       | ug/L  |
| 67-72-1     | Hexachloroethane          | 0.98  | U         | 0.98 | 5.00       | ug/L  |
| 100-41-4    | Ethyl Benzene             | 45.6  |           | 0.56 | 5.00       | ug/L  |
| 179601-23-1 | m/p-Xylenes               | 110   |           | 1.30 | 10.0       | ug/L  |
| 1330-20-7   | Total Xylenes             | 250   |           | 1.97 | 15.0       | ug/L  |
| 95-47-6     | o-Xylene                  | 140   |           | 0.67 | 5.00       | ug/L  |
| 100-42-5    | Styrene                   | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 75-25-2     | Bromoform                 | 17.1  |           | 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 | 66.6  |           | 0.44 | 5.00       | ug/L  |
| 96-18-4     | 1,2,3-Trichloropropane    | 83.6  |           | 0.62 | 5.00       | ug/L  |
| 108-86-1    | Bromobenzene              | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 103-65-1    | n-propylbenzene           | 0.67  | U         | 0.67 | 5.00       | ug/L  |
| 95-49-8     | 2-Chlorotoluene           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 106-43-4    | 4-Chlorotoluene           | 0.62  | U         | 0.62 | 5.00       | ug/L  |
| 98-06-6     | tert-butylbenzene         | 0.71  | U         | 0.71 | 5.00       | ug/L  |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 135-98-8    | sec-Butylbenzene          | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 99-87-6     | p-Isopropyltoluene        | 0.70  | U         | 0.70 | 5.00       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |    |
|--------------------|----------------------------------------|-----------|-----------------|--------------|----|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: | 09/02/25     |    |
| Project:           | NJ Waste Water PT                      |           | Date Received:  | 09/04/25     |    |
| Client Sample ID:  | WP0925-PT-VOA-WP                       |           | SDG No.:        | Q3015        |    |
| Lab Sample ID:     | Q3015-02                               |           | Matrix:         | Water        |    |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |    |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000         | uL |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |    |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |    |
| Prep Method :      |                                        |           |                 |              |    |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087873.D        | 1         | 09/17/25 12:38 | VN091725      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 541-73-1                  | 1,3-Dichlorobenzene         | 0.67   | U         | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 110    |           | 0.81     | 5.00       | ug/L    |
| 104-51-8                  | n-Butylbenzene              | 0.82   | U         | 0.82     | 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    |
| 87-68-3                   | Hexachlorobutadiene         | 0.68   | U         | 0.68     | 5.00       | ug/L    |
| 91-20-3                   | Naphthalene                 | 76.0   |           | 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       | 28.4   |           | 91 - 110 | 95%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 28.6   |           | 91 - 112 | 95%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 28.0   |           | 63 - 112 | 93%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 56300  | 7.8       |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 294000 | 9.083     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 278000 | 11.847    |          |            |         |

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\VN091725\  
 Data File : VN087873.D  
 Acq On : 17 Sep 2025 12:38  
 Operator : JC\MD  
 Sample : Q3015-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 WP0925-PT-VOA-WP

Quant Time: Sep 18 03:09:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

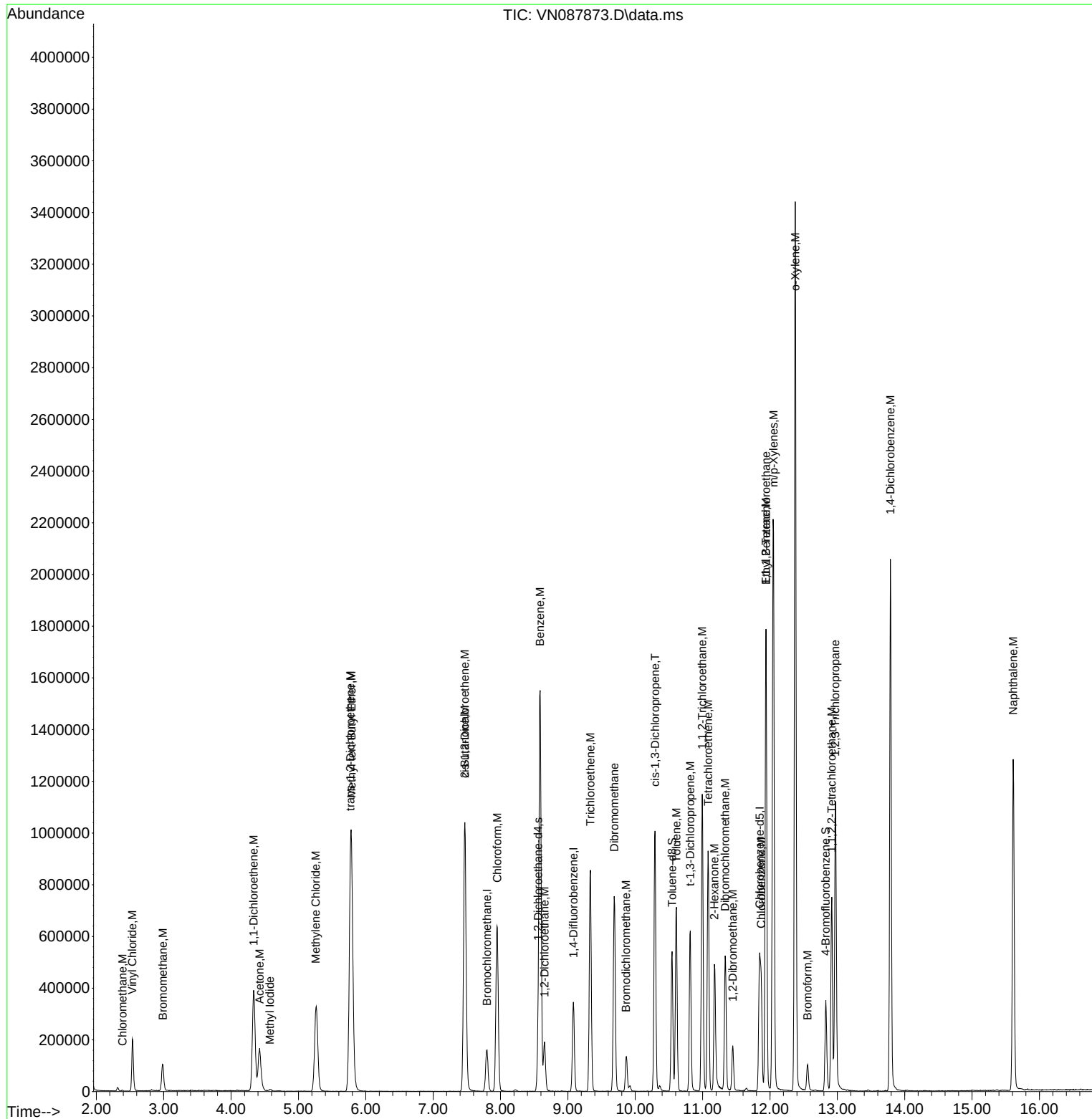
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.800  | 128   | 56339    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 9.083  | 114   | 293605   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.847 | 117   | 277718   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.559  | 65    | 136600   | 28.384   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 94.600%  |
| 60) 4-Bromofluorobenzene      | 12.829 | 95    | 125042   | 28.002   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 93.333%  |
| 63) Toluene-d8                | 10.547 | 98    | 368817   | 28.556   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 95.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.389  | 50    | 2591     | 0.705    | ug/l   | 91       |
| 4) Vinyl Chloride             | 2.536  | 62    | 204214   | 49.148   | ug/l   | 94       |
| 5) Bromomethane               | 2.989  | 94    | 79770    | 32.725   | ug/l   | 93       |
| 10) 1,1-Dichloroethene        | 4.336  | 96    | 233860   | 68.759   | ug/l   | 92       |
| 11) Methyl Iodide             | 4.577  | 142   | 10703    | 4.446    | ug/l   | 92       |
| 15) Acetone                   | 4.424  | 58    | 90366    | 128.362  | ug/l   | 96       |
| 18) Methylene Chloride        | 5.259  | 84    | 263442   | 68.379   | ug/l   | 93       |
| 19) trans-1,2-Dichloroethene  | 5.771  | 96    | 273470   | 78.838   | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene    | 7.471  | 96    | 465431   | 110.544  | ug/l   | 89       |
| 24) Methyl tert-Butyl Ether   | 5.789  | 73    | 1064902  | 87.701   | ug/l   | 98       |
| 25) Chloroform                | 7.953  | 83    | 632447   | 86.368   | ug/l   | 92       |
| 30) 2-Butanone                | 7.471  | 43    | 444515   | 135.233  | ug/l   | 100      |
| 34) Benzene                   | 8.588  | 78    | 1568048  | 101.679  | ug/l # | 93       |
| 36) 1,2-Dichloroethane        | 8.653  | 62    | 170670   | 29.299   | ug/l   | 100      |
| 37) Trichloroethene           | 9.335  | 130   | 302114   | 87.638   | ug/l   | 96       |
| 40) Dibromomethane            | 9.688  | 93    | 336001   | 114.310  | ug/l   | 97       |
| 41) Bromodichloromethane      | 9.865  | 83    | 91988    | 15.311   | ug/l   | 93       |
| 48) t-1,3-Dichloropropene     | 10.818 | 75    | 347914   | 55.757   | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75    | 575902   | 90.110   | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97    | 369634   | 97.362   | ug/l   | 96       |
| 53) Dibromochloromethane      | 11.335 | 129   | 279580   | 65.679   | ug/l   | 89       |
| 54) 1,2-Dibromoethane         | 11.447 | 107   | 122131   | 30.916   | ug/l   | 98       |
| 56) Bromoform                 | 12.559 | 173   | 47416    | 17.057   | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43    | 371792   | 86.647   | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164   | 201804   | 72.984   | ug/l   | 94       |
| 62) Toluene                   | 10.612 | 91    | 541334   | 32.225   | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112   | 225101   | 21.833   | ug/l   | 96       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131   | 185864   | 51.203   | ug/l   | 96       |
| 66) Ethyl Benzene             | 11.941 | 91    | 827192   | 45.643   | ug/l   | 95       |
| 67) m/p-Xylenes               | 12.053 | 106   | 720077   | 107.037  | ug/l   | 95       |
| 68) o-Xylene                  | 12.376 | 106   | 937122   | 143.670  | ug/l   | 97       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83    | 395797   | 66.568   | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75    | 487981   | 83.587   | ug/l   | 1        |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146   | 845011   | 108.066  | ug/l   | 98       |
| 91) Naphthalene               | 15.611 | 128   | 1171082  | 76.014   | ug/l   | 99       |

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

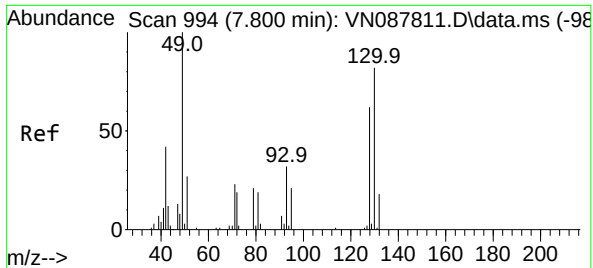
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Data File : VN087873.D  
Acq On : 17 Sep 2025 12:38  
Operator : JC\MD  
Sample : Q3015-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

Quant Time: Sep 18 03:09:30 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 2025  
Response via : Initial Calibration



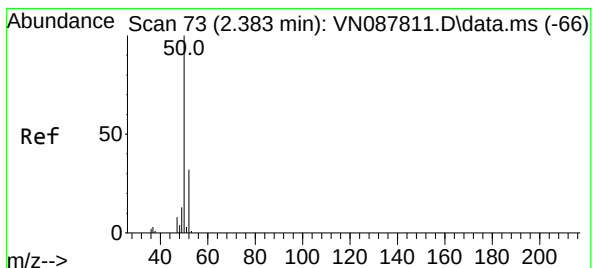
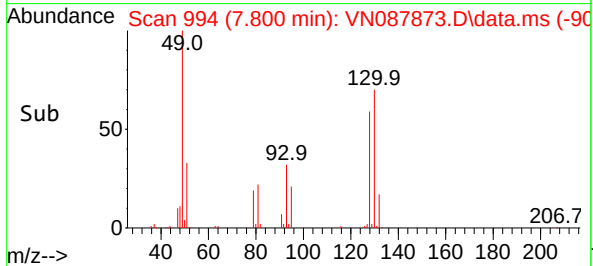
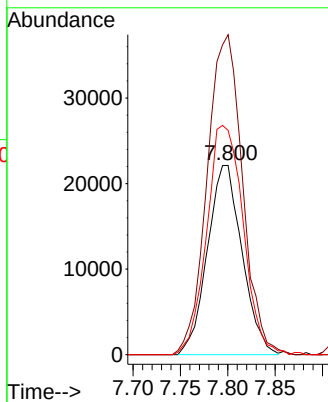
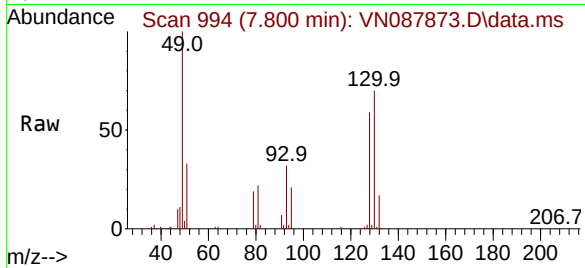




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

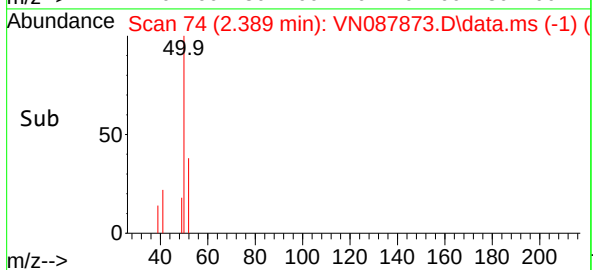
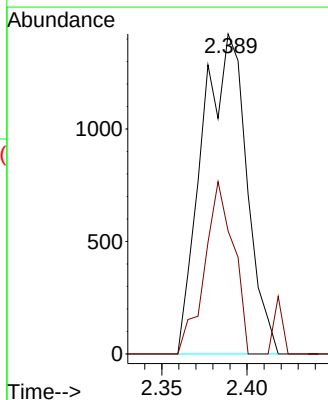
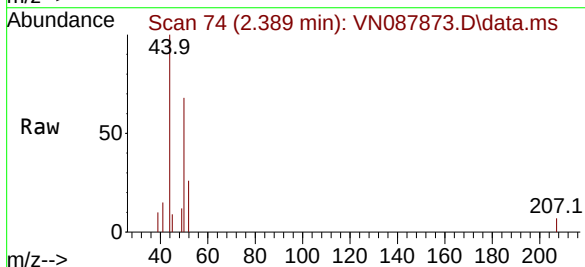
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

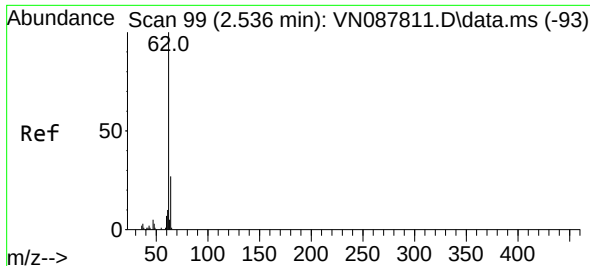
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 172.7 | 0.0   | 464.3 |
| 130     | 127.7 | 0.0   | 300.5 |



#3  
Chloromethane  
Concen: 0.705 ug/l  
RT: 2.389 min Scan# 74  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 38.4  | 26.6  | 40.0  |

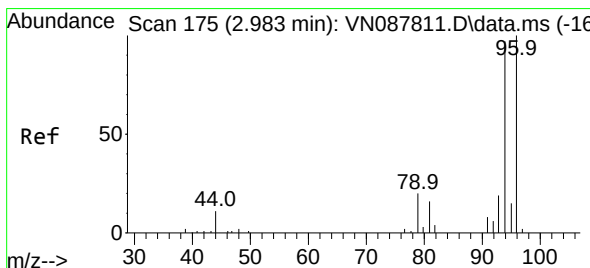
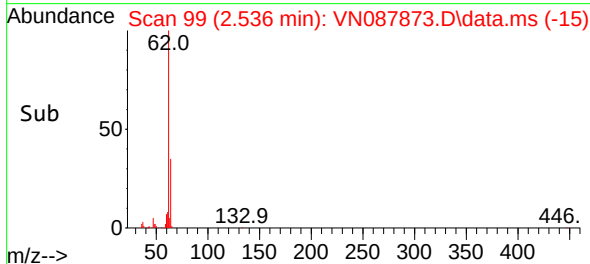
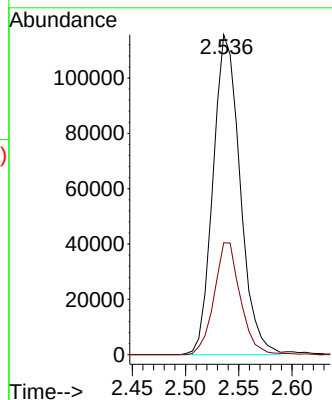
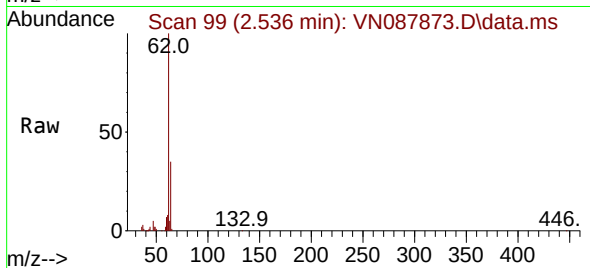




#4  
Vinyl Chloride  
Concen: 49.148 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

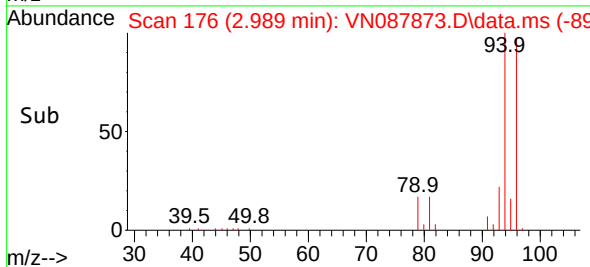
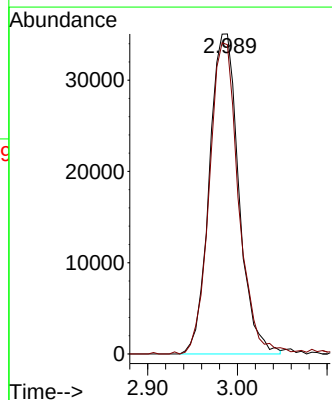
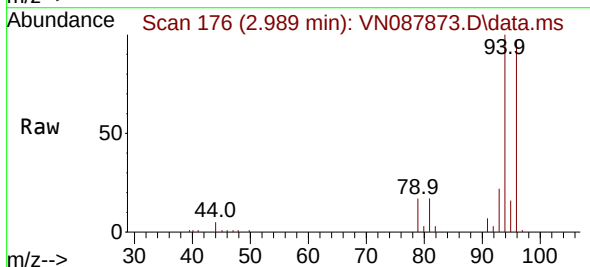
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

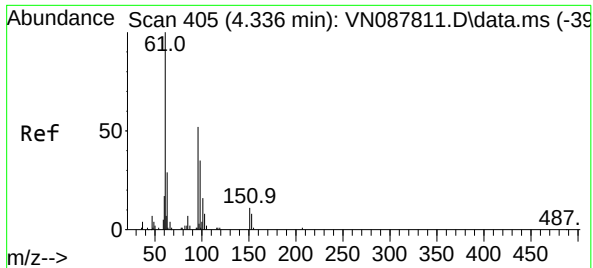
Tgt Ion: 62 Resp: 204214  
Ion Ratio Lower Upper  
62 100  
64 35.0 25.5 38.3



#5  
Bromomethane  
Concen: 32.725 ug/l  
RT: 2.989 min Scan# 176  
Delta R.T. 0.012 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 94 Resp: 79770  
Ion Ratio Lower Upper  
94 100  
96 96.6 72.2 108.4





#10

1,1-Dichloroethene

Concen: 68.759 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

Instrument :

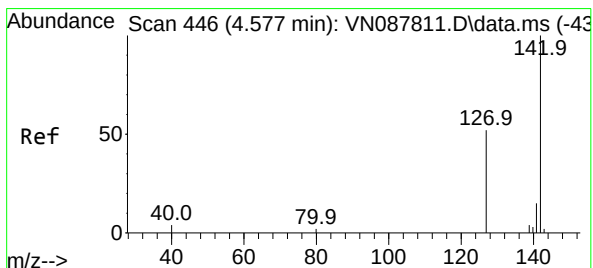
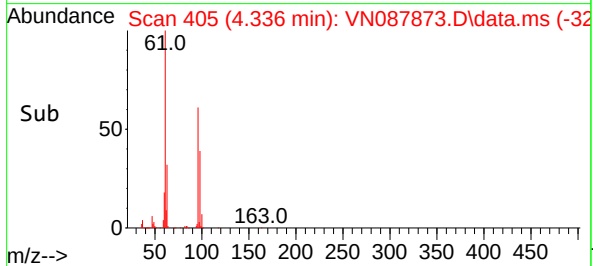
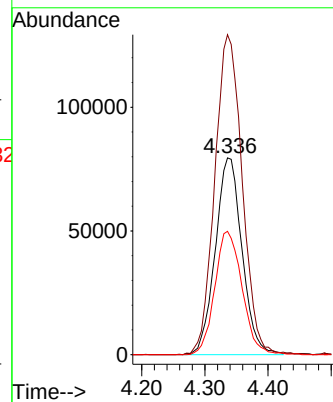
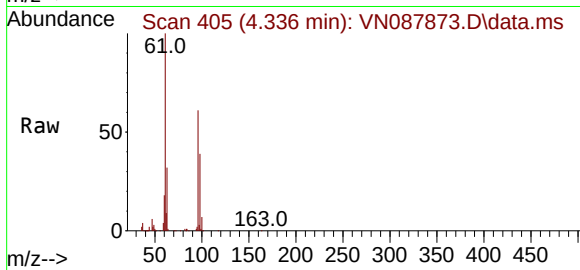
MSVOA\_N

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 96 Resp: 233860

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 162.6 | 135.9 | 203.9 |
| 98  | 62.7  | 59.2  | 88.8  |



#11

Methyl Iodide

Concen: 4.446 ug/l

RT: 4.577 min Scan# 446

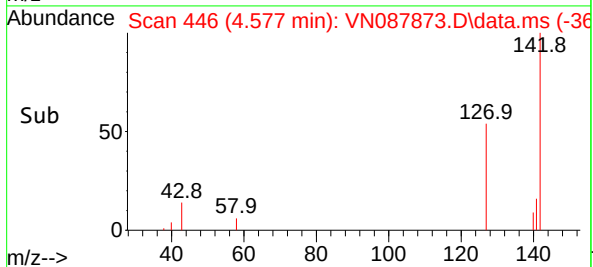
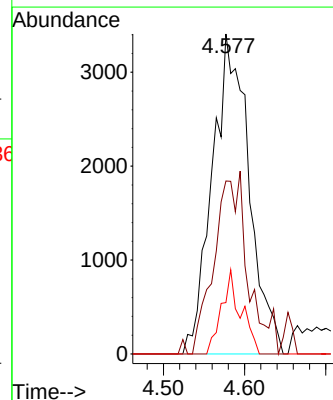
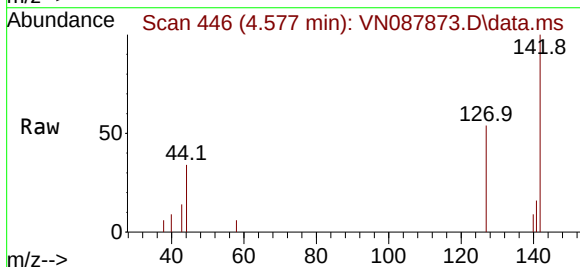
Delta R.T. -0.006 min

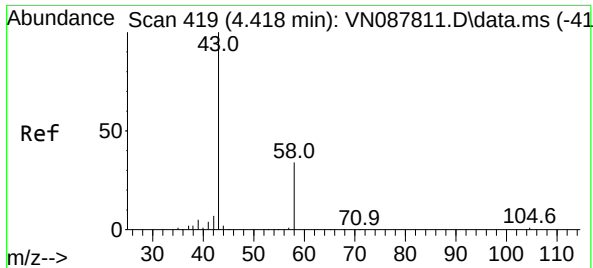
Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

Tgt Ion: 142 Resp: 10703

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 127 | 49.2  | 27.9  | 83.7  |
| 141 | 16.1  | 9.6   | 28.8  |

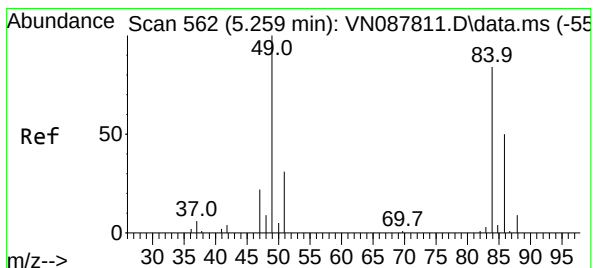
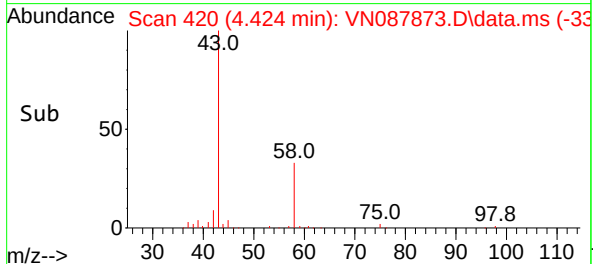
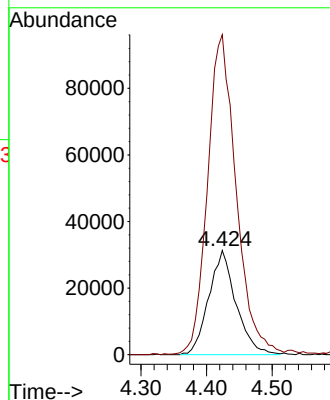
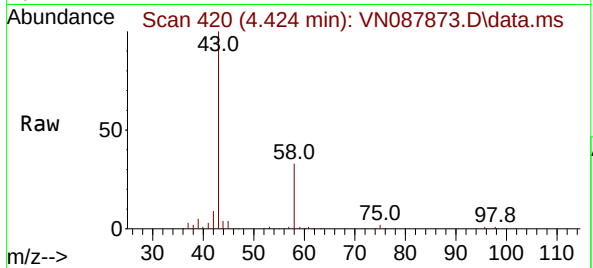




#15  
Acetone  
Concen: 128.362 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

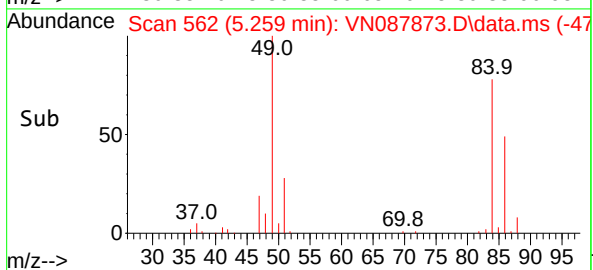
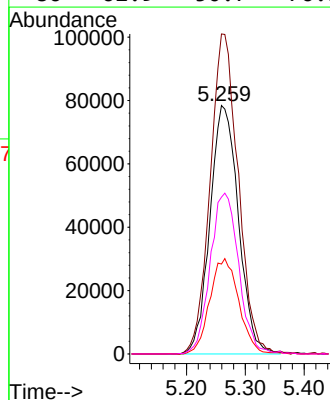
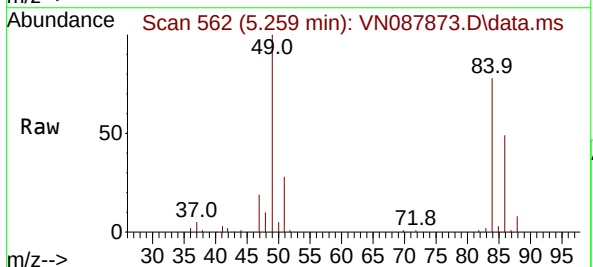
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

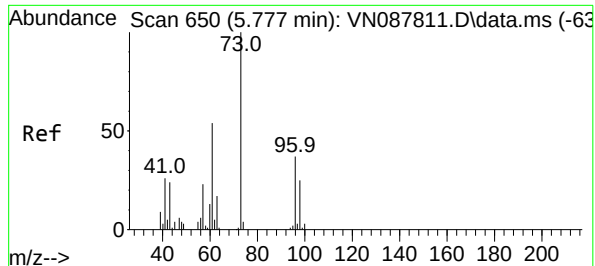
Tgt Ion: 58 Resp: 90366  
Ion Ratio Lower Upper  
58 100  
43 305.1 250.6 376.0



#18  
Methylene Chloride  
Concen: 68.379 ug/l  
RT: 5.259 min Scan# 562  
Delta R.T. -0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 84 Resp: 263442  
Ion Ratio Lower Upper  
84 100  
49 128.8 114.1 171.1  
51 36.2 30.2 45.4  
86 62.9 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 78.838 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.006 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

WP0925-PT-VOA-WP

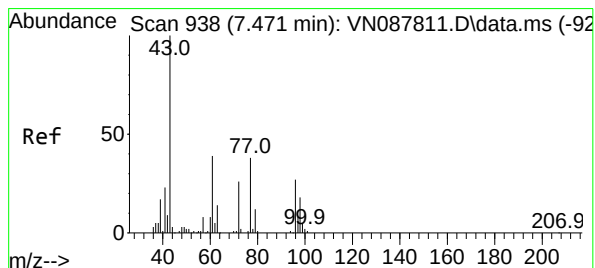
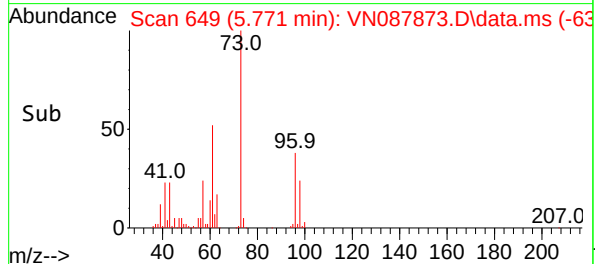
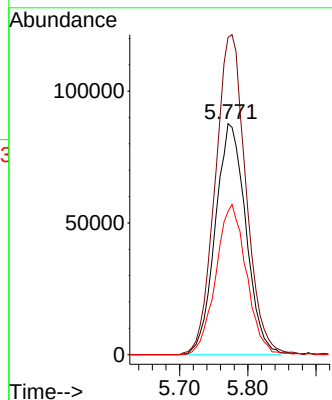
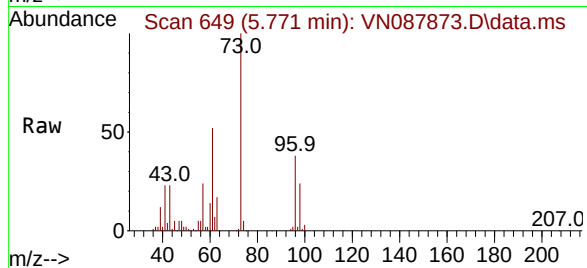
Tgt Ion: 96 Resp: 273470

Ion Ratio Lower Upper

96 100

61 137.2 106.4 159.6

98 62.0 48.9 73.3



#22

cis-1,2-Dichloroethene

Concen: 110.544 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

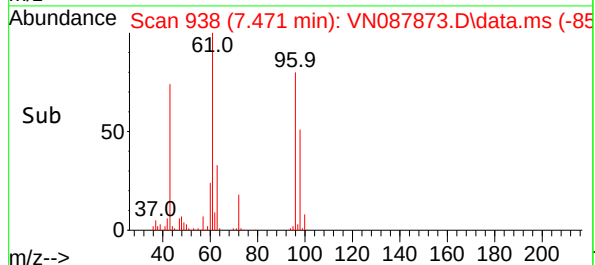
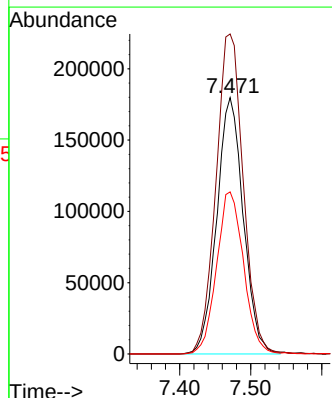
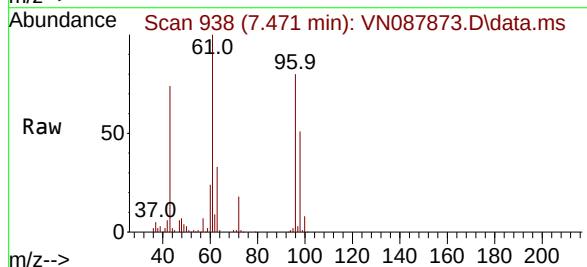
Tgt Ion: 96 Resp: 465431

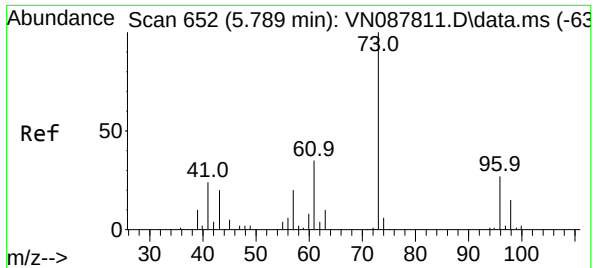
Ion Ratio Lower Upper

96 100

61 128.7 118.2 177.2

98 64.3 51.6 77.4

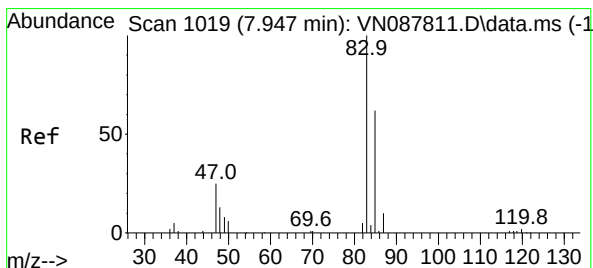
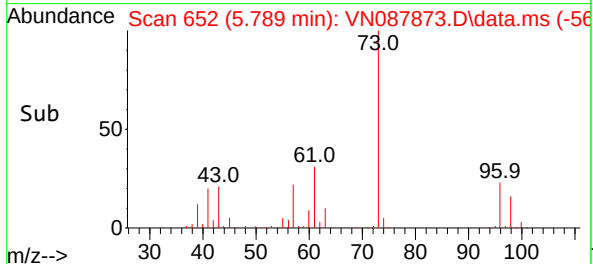
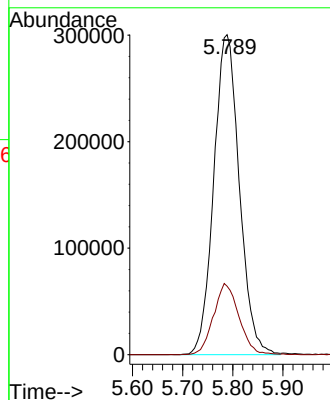
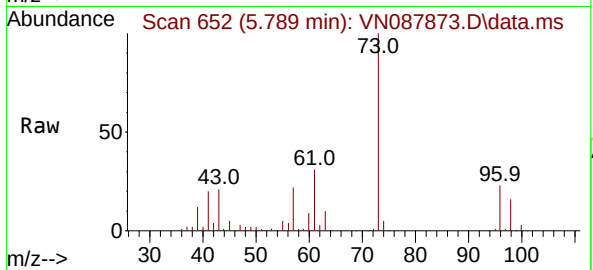




#24  
Methyl tert-Butyl Ether  
Concen: 87.701 ug/l  
RT: 5.789 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

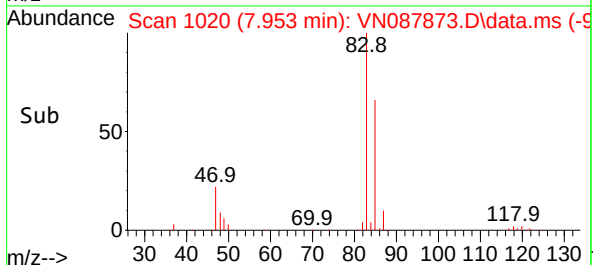
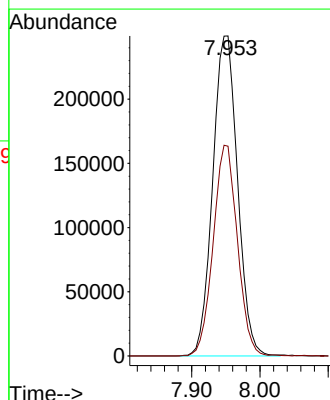
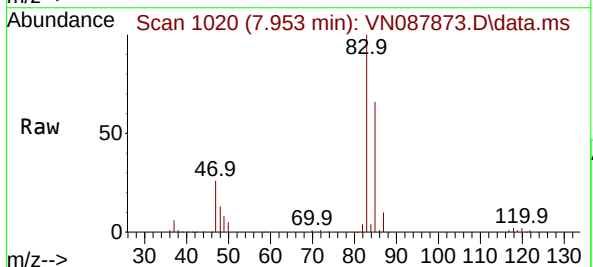
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

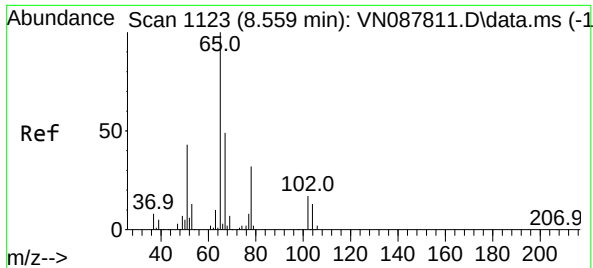
Tgt Ion: 73 Resp: 1064902  
Ion Ratio Lower Upper  
73 100  
43 21.9 16.8 25.2



#25  
Chloroform  
Concen: 86.368 ug/l  
RT: 7.953 min Scan# 1020  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 83 Resp: 632447  
Ion Ratio Lower Upper  
83 100  
85 65.5 47.7 71.5





#27

1,2-Dichloroethane-d4

Concen: 28.384 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

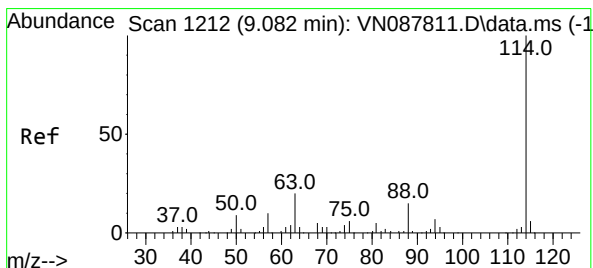
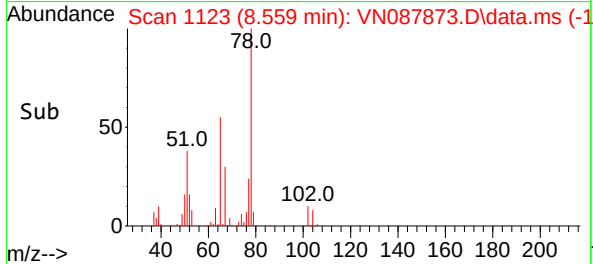
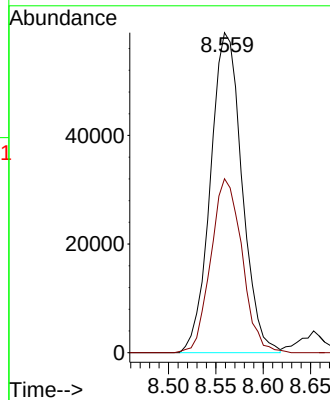
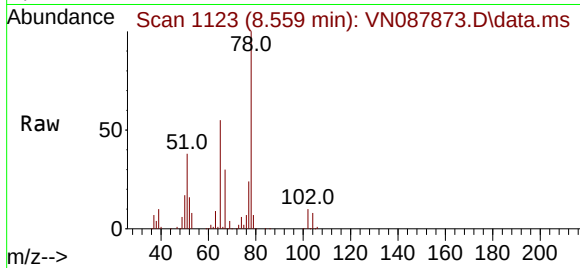
WP0925-PT-VOA-WP

Tgt Ion: 65 Resp: 136600

Ion Ratio Lower Upper

65 100

67 53.8 39.6 59.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

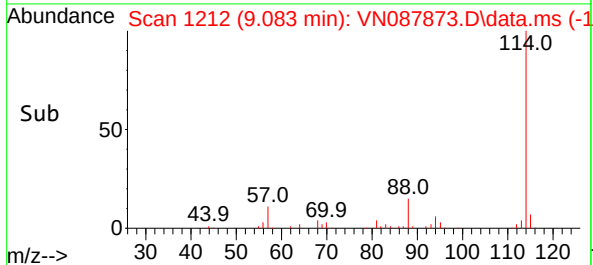
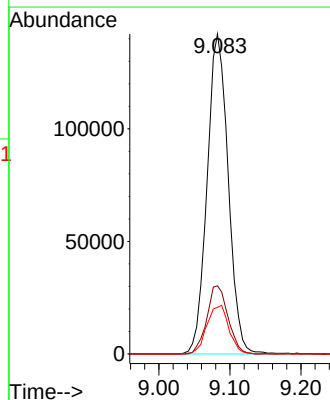
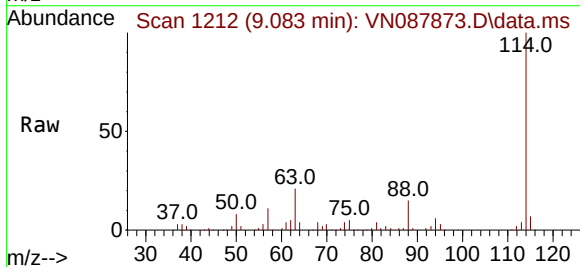
Tgt Ion: 114 Resp: 293605

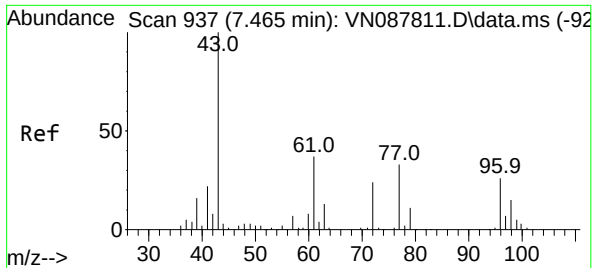
Ion Ratio Lower Upper

114 100

63 21.4 18.3 27.5

88 15.8 12.4 18.6

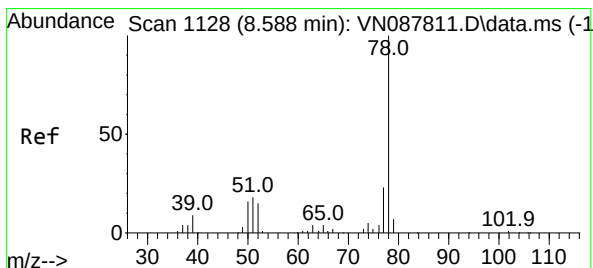
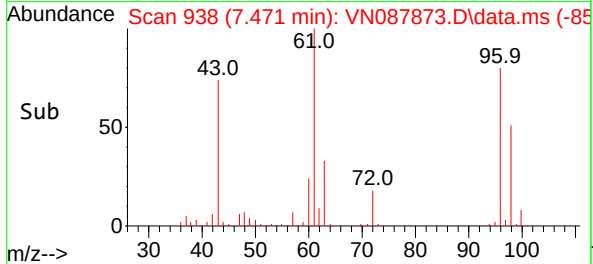
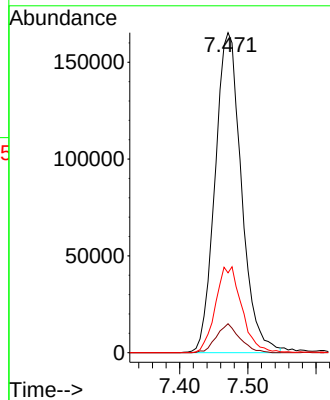
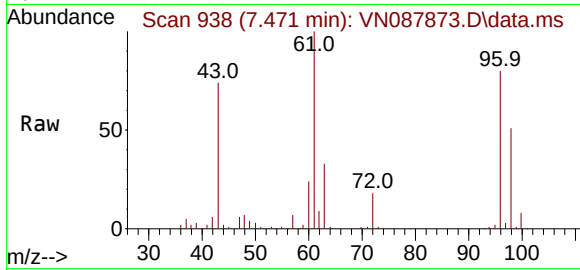




#30  
2-Butanone  
Concen: 135.233 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

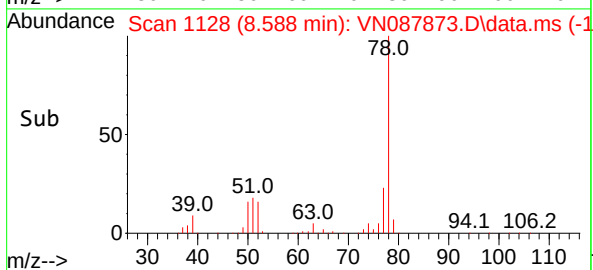
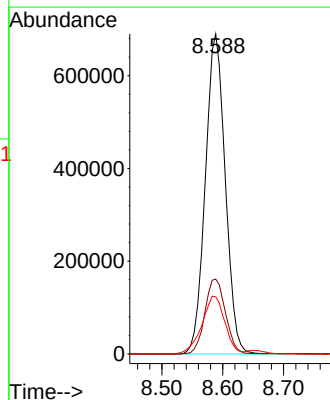
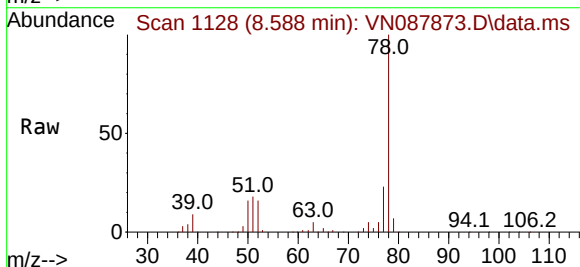
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

Tgt Ion: 43 Resp: 444515  
Ion Ratio Lower Upper  
43 100  
57 8.0 6.3 9.5  
72 26.8 21.4 32.2

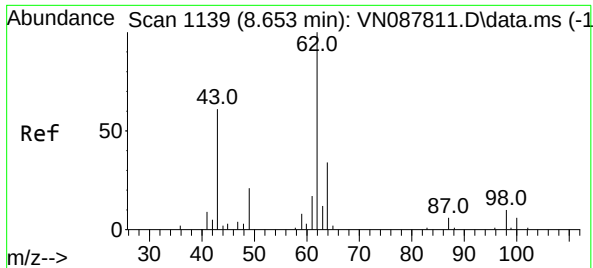


#34  
Benzene  
Concen: 101.679 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 78 Resp: 1568048  
Ion Ratio Lower Upper  
78 100  
77 23.4 20.3 30.5  
51 17.8 18.0 27.0#







#36

1,2-Dichloroethane

Concen: 29.299 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087873.D

Acq: 17 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

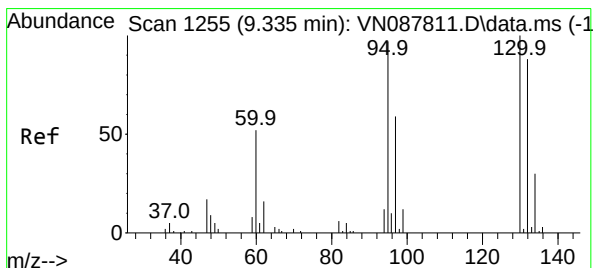
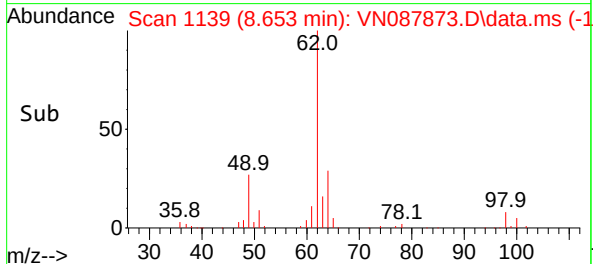
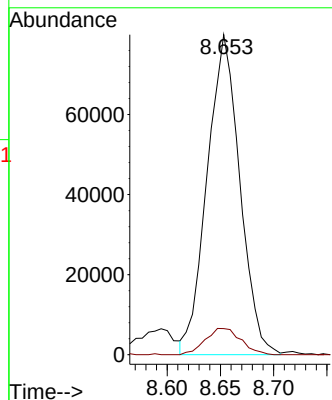
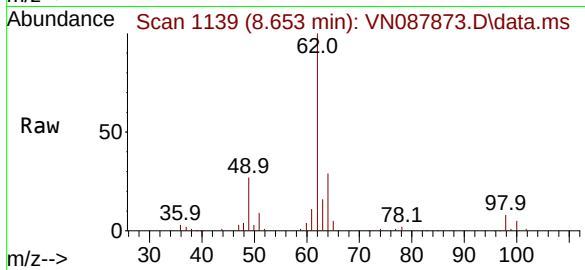
WP0925-PT-VOA-WP

Tgt Ion: 62 Resp: 170670

Ion Ratio Lower Upper

62 100

98 8.9 7.2 10.8



#37

Trichloroethene

Concen: 87.638 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087873.D

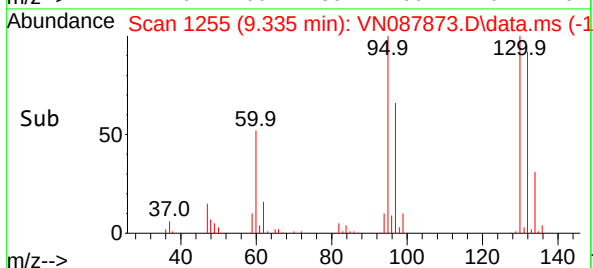
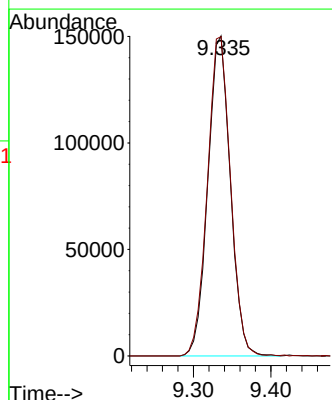
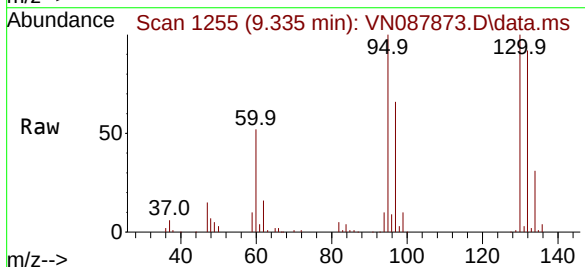
Acq: 17 Sep 2025 12:38

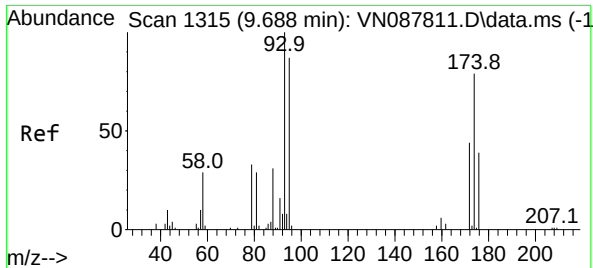
Tgt Ion:130 Resp: 302114

Ion Ratio Lower Upper

130 100

95 99.8 82.7 124.1

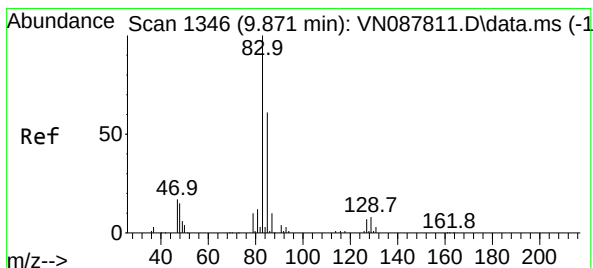
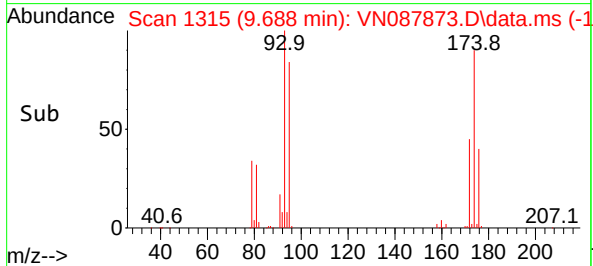
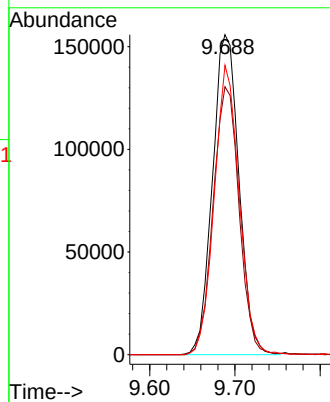
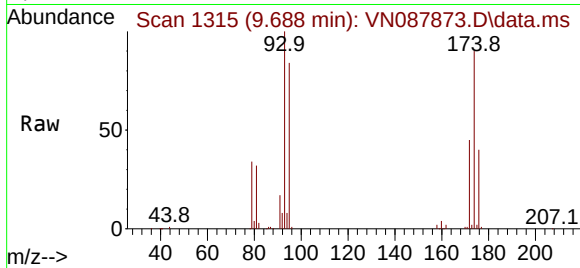




#40  
Dibromomethane  
Concen: 114.310 ug/l  
RT: 9.688 min Scan# 1315  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

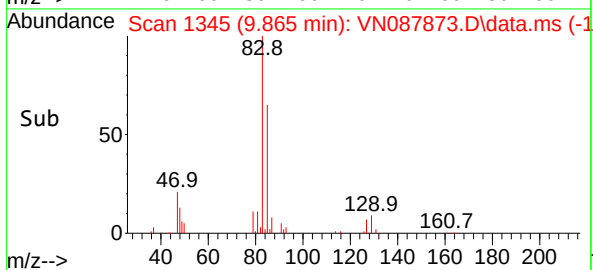
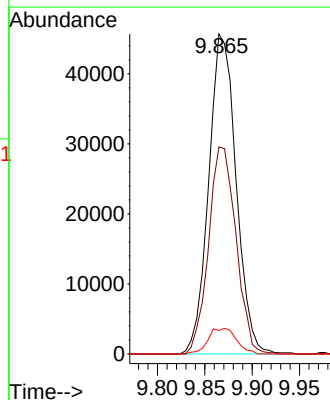
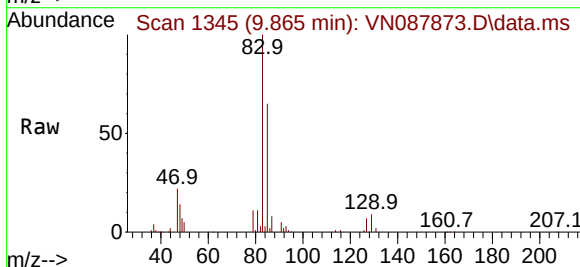
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

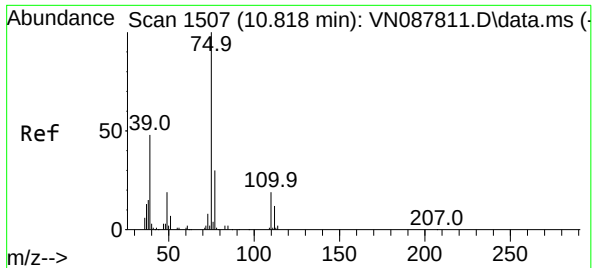
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 336001 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 95       | 82.1  | 0.0   | 168.4  |
| 174      | 85.4  | 0.0   | 162.8  |



#41  
Bromodichloromethane  
Concen: 15.311 ug/l  
RT: 9.865 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 91988 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.7  | 47.3  | 70.9  |
| 127      | 7.3   | 5.2   | 7.8   |

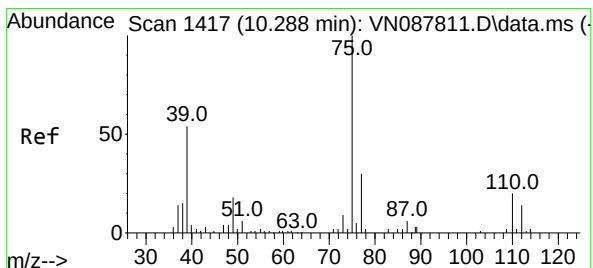
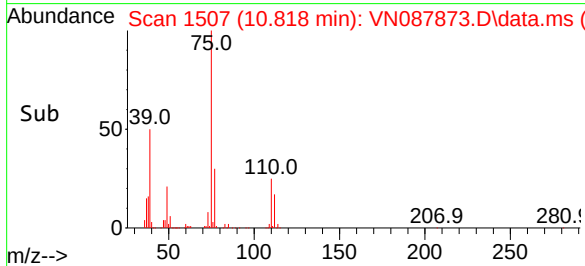
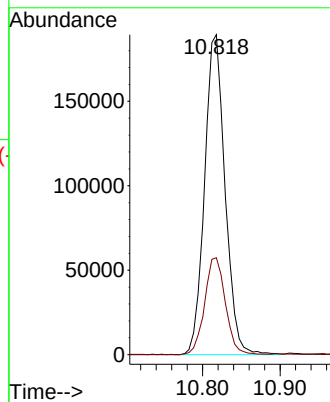
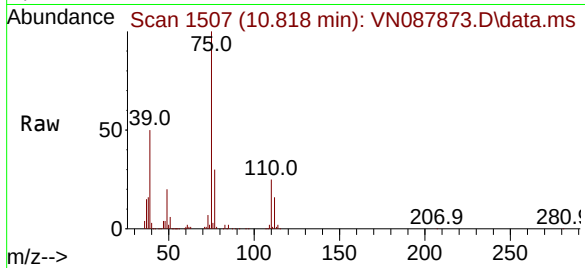




#48  
t-1,3-Dichloropropene  
Concen: 55.757 ug/l  
RT: 10.818 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

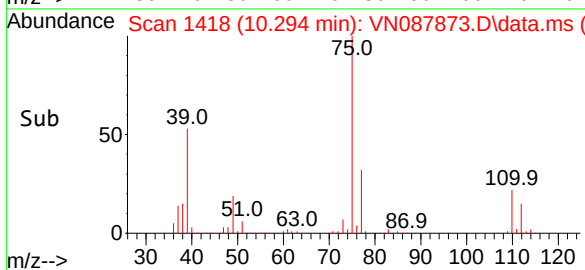
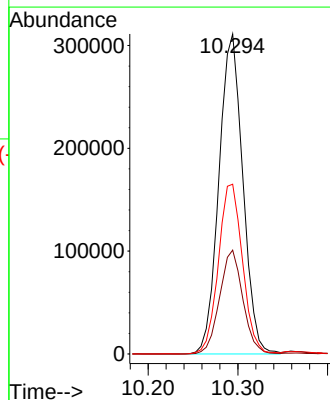
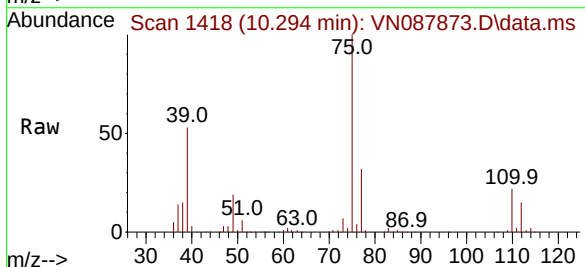
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

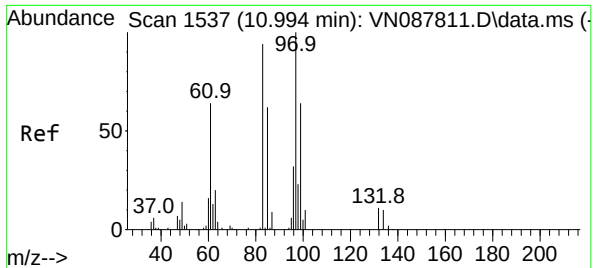
Tgt Ion: 75 Resp: 347914  
Ion Ratio Lower Upper  
75 100  
77 30.3 24.7 37.1



#49  
cis-1,3-Dichloropropene  
Concen: 90.110 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 75 Resp: 575902  
Ion Ratio Lower Upper  
75 100  
77 32.4 27.8 41.6  
39 53.0 47.6 71.4

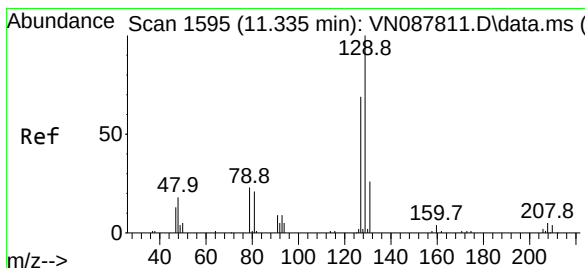
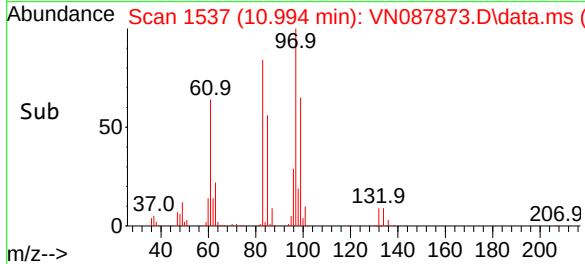
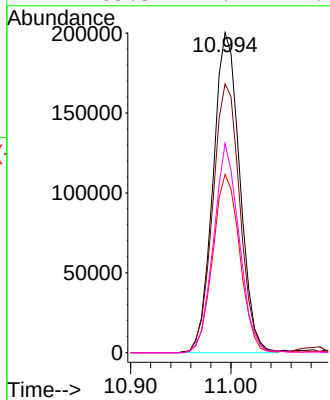
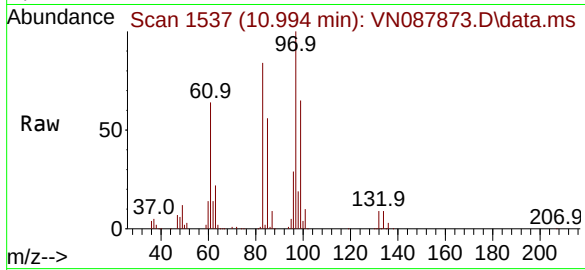




#50  
1,1,2-Trichloroethane  
Concen: 97.362 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

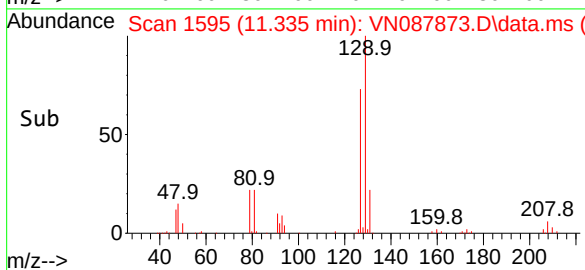
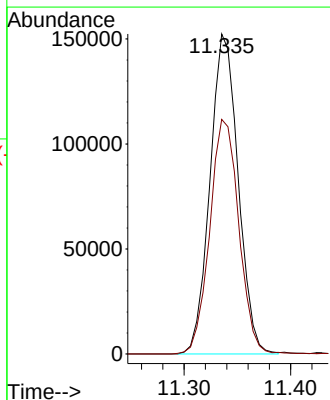
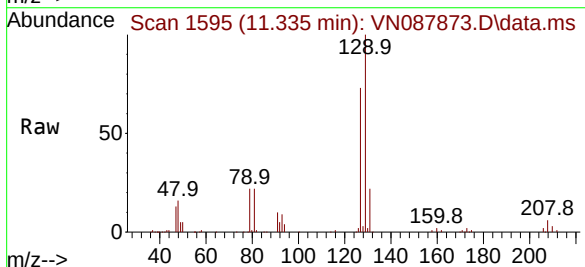
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

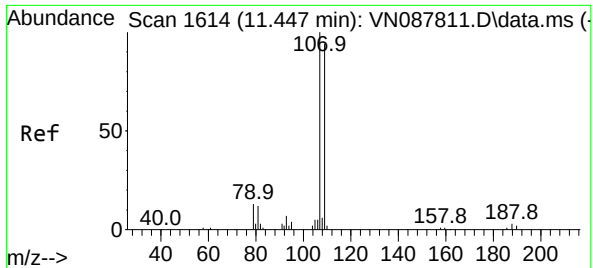
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 369634 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 84.0     | 70.5 105.7   |
| 85 55.7     | 46.3 69.5    |
| 99 65.3     | 49.4 74.2    |



#53  
Dibromochloromethane  
Concen: 65.679 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

|             |              |
|-------------|--------------|
| Tgt Ion:129 | Resp: 279580 |
| Ion Ratio   | Lower Upper  |
| 129 100     |              |
| 127 75.4    | 42.6 128.0   |

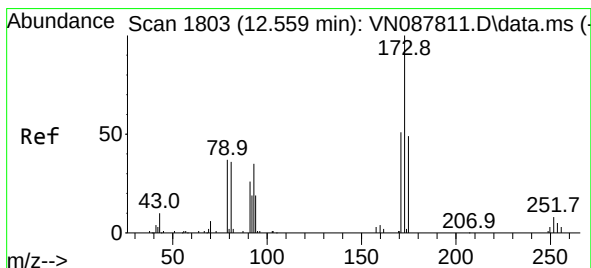
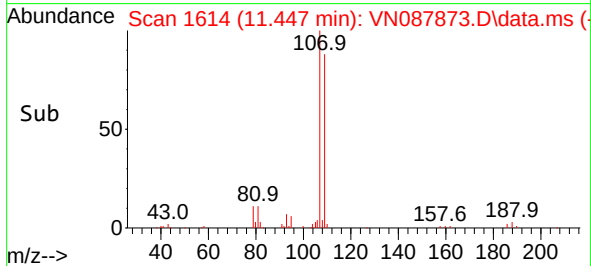
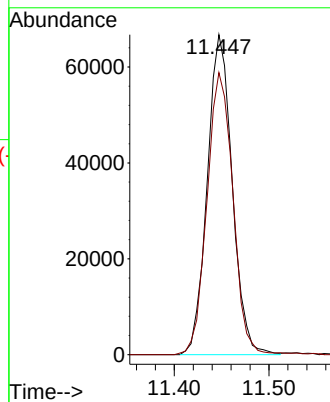
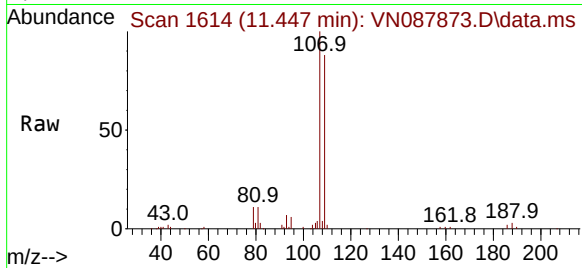




#54  
1,2-Dibromoethane  
Concen: 30.916 ug/l  
RT: 11.447 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

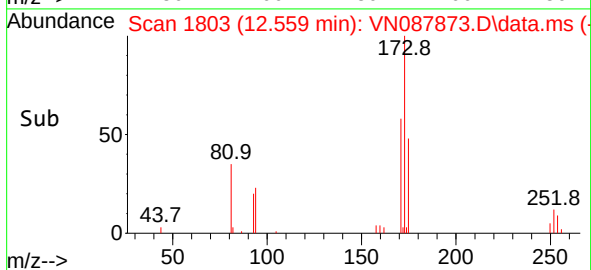
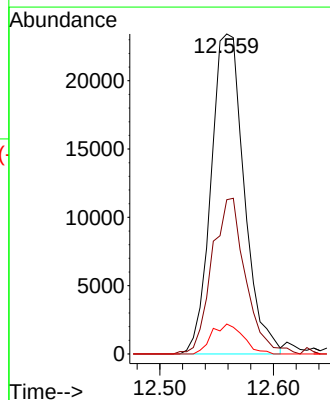
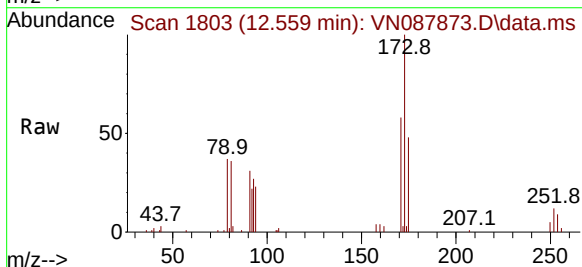
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

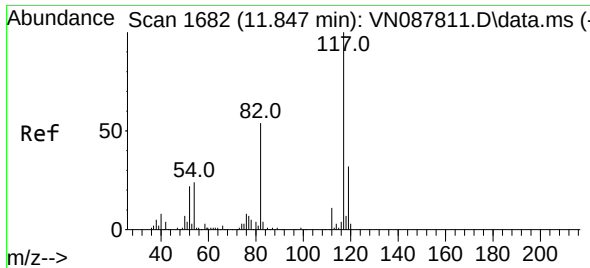
Tgt Ion:107 Resp: 122131  
Ion Ratio Lower Upper  
107 100  
109 91.4 74.6 112.0



#56  
Bromoform  
Concen: 17.057 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion:173 Resp: 47416  
Ion Ratio Lower Upper  
173 100  
175 48.9 39.8 59.6  
254 8.9 6.2 9.4

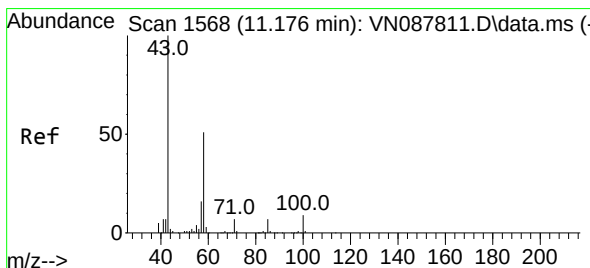
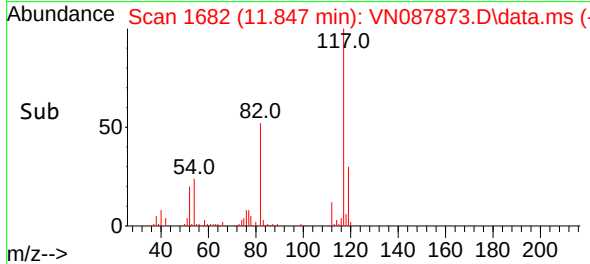
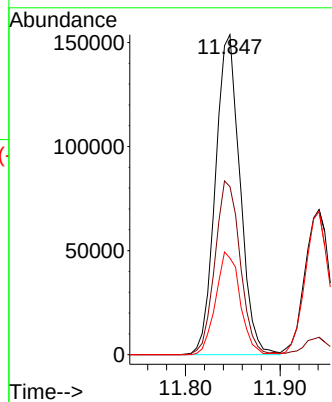
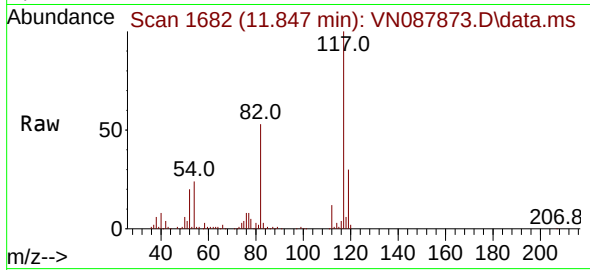




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

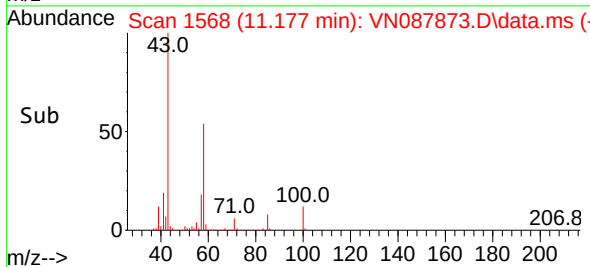
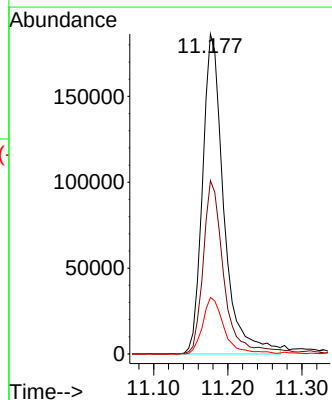
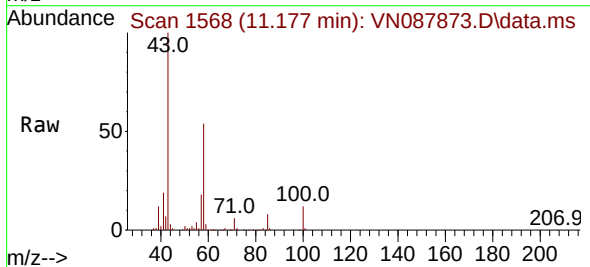
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

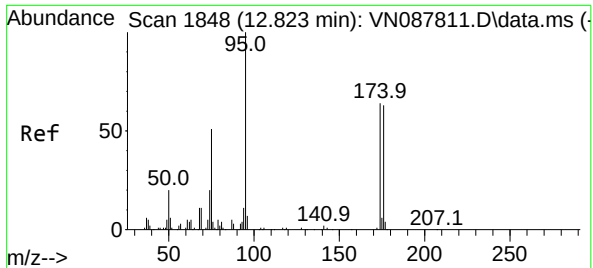
Tgt Ion:117 Resp: 277718  
Ion Ratio Lower Upper  
117 100  
82 55.5 45.9 68.9  
119 31.8 25.3 37.9



#59  
2-Hexanone  
Concen: 86.647 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 43 Resp: 371792  
Ion Ratio Lower Upper  
43 100  
58 50.6 40.2 60.4  
57 17.8 13.7 20.5

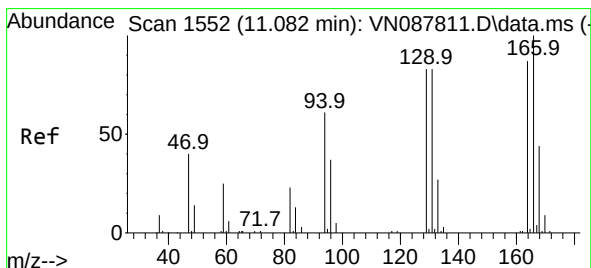
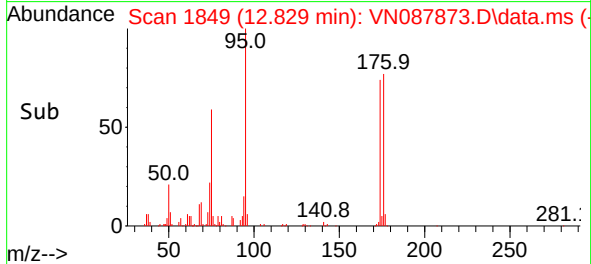
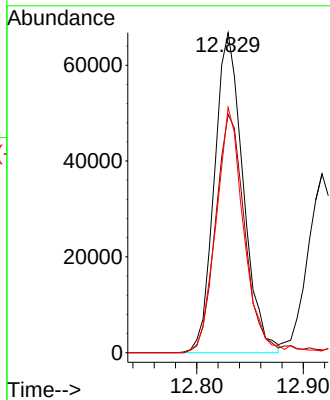
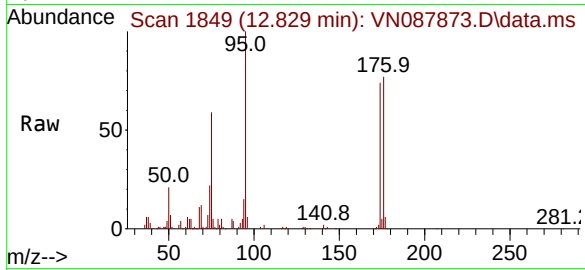




#60  
4-Bromofluorobenzene  
Concen: 28.002 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

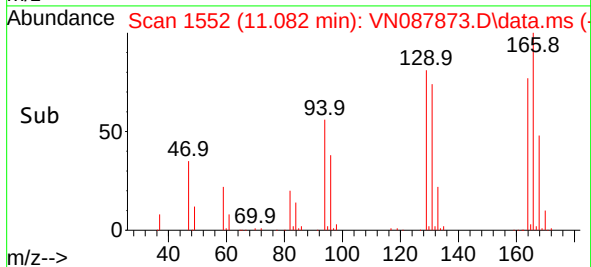
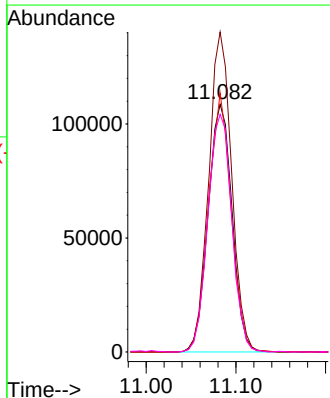
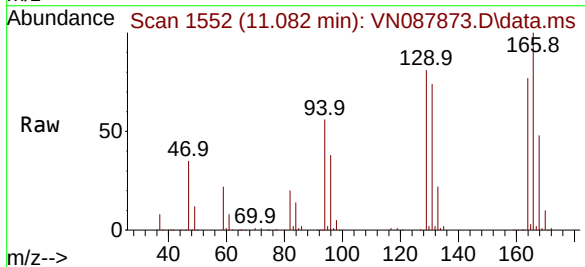
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

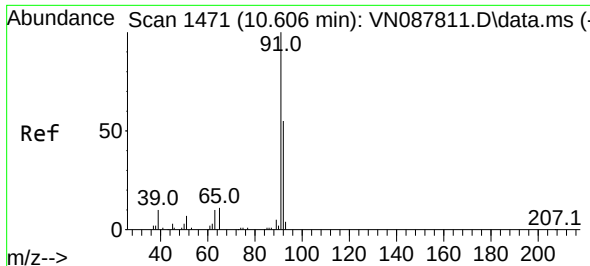
Tgt Ion: 95 Resp: 125042  
Ion Ratio Lower Upper  
95 100  
174 75.0 55.4 83.0  
176 73.4 51.5 77.3



#61  
Tetrachloroethene  
Concen: 72.984 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 164 Resp: 201804  
Ion Ratio Lower Upper  
164 100  
166 129.2 97.3 145.9  
129 104.5 78.6 117.8  
131 95.9 79.2 118.8

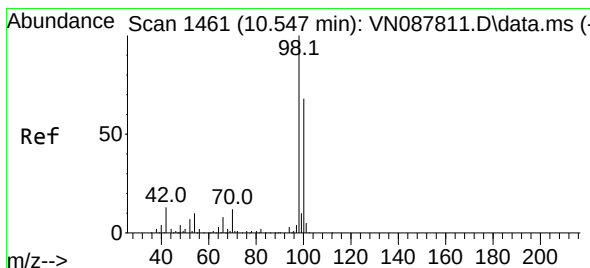
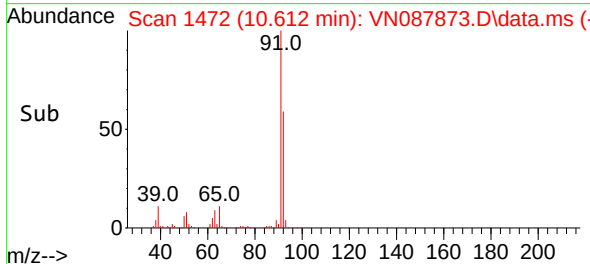
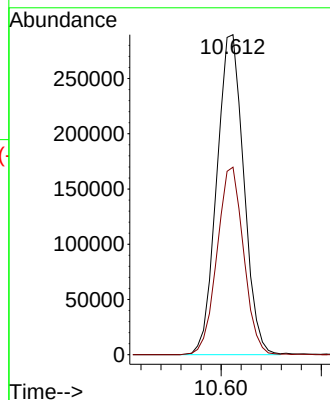
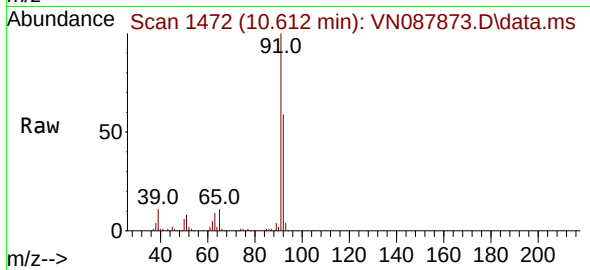




#62  
Toluene  
Concen: 32.225 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

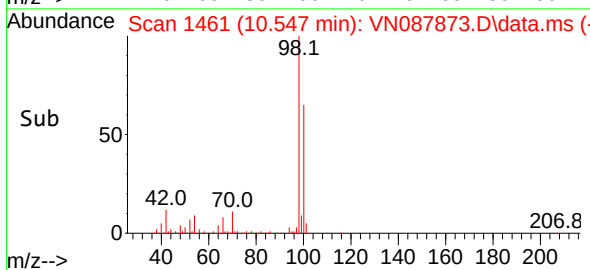
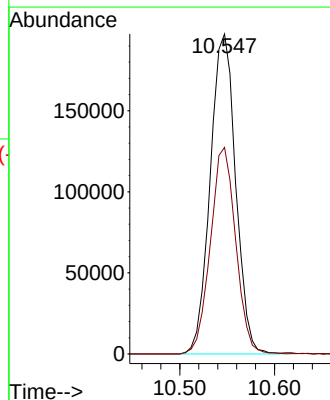
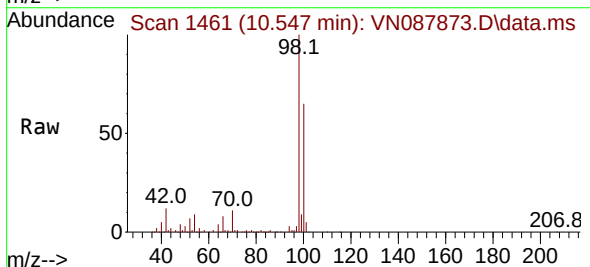
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

Tgt Ion: 91 Resp: 541334  
Ion Ratio Lower Upper  
91 100  
92 57.7 45.4 68.0

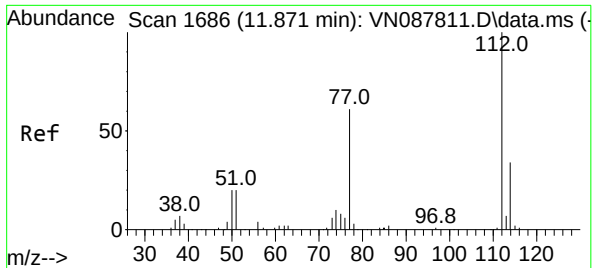


#63  
Toluene-d8  
Concen: 28.556 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 98 Resp: 368817  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.6 76.0



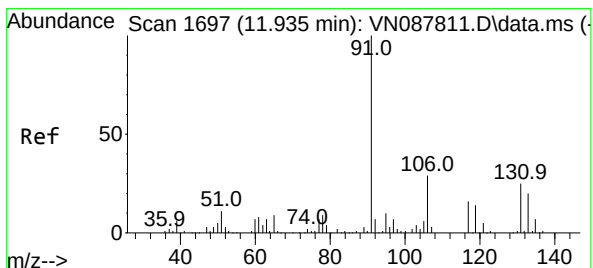
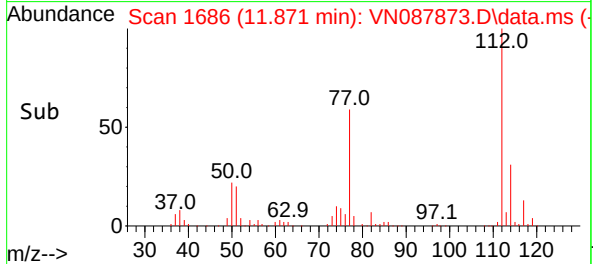
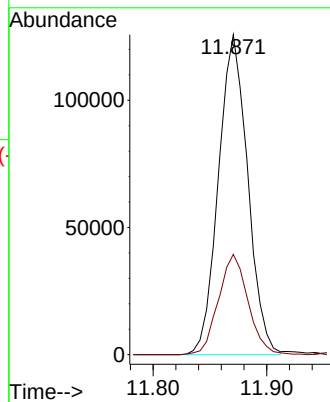
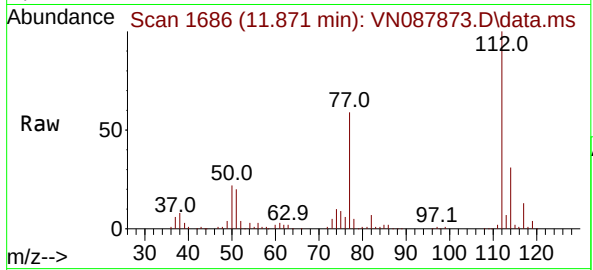




#64  
Chlorobenzene  
Concen: 21.833 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

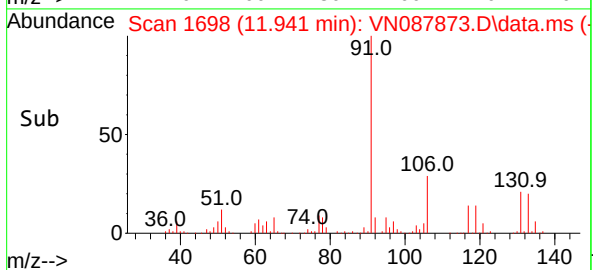
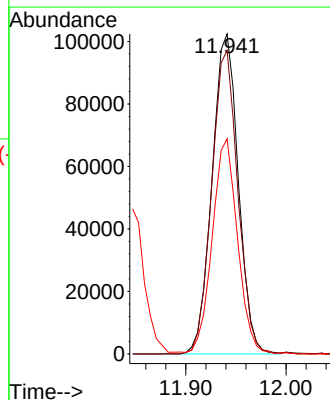
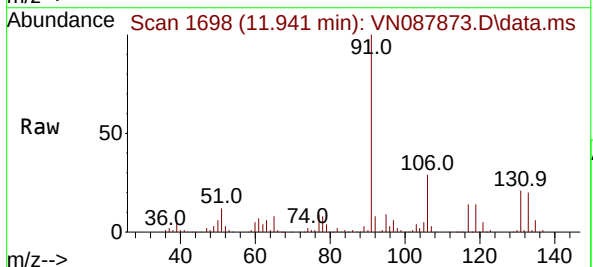
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

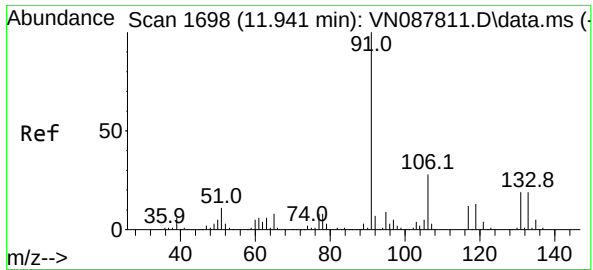
Tgt Ion:112 Resp: 225101  
Ion Ratio Lower Upper  
112 100  
114 31.4 23.5 35.3



#65  
1,1,1,2-Tetrachloroethane  
Concen: 51.203 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion:131 Resp: 185864  
Ion Ratio Lower Upper  
131 100  
133 94.6 0.0 195.8  
119 64.9 0.0 139.0

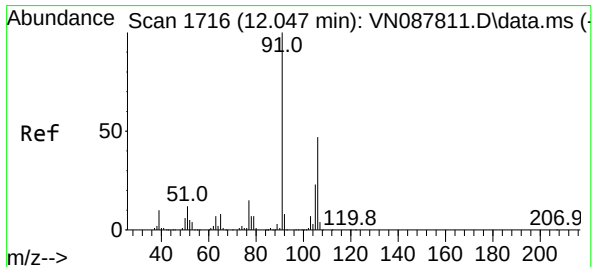
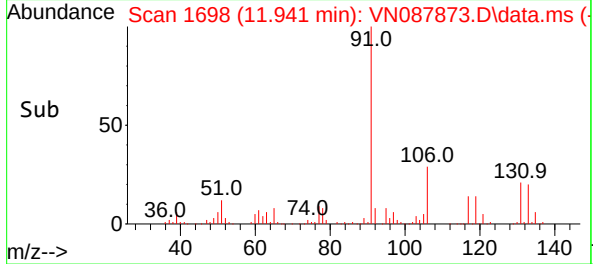
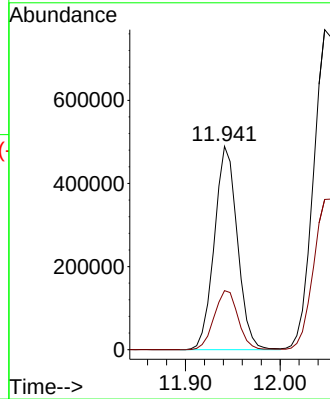
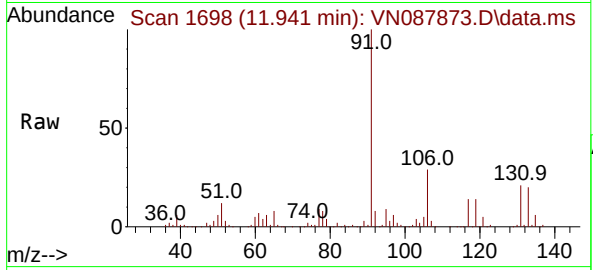




#66  
Ethyl Benzene  
Concen: 45.643 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

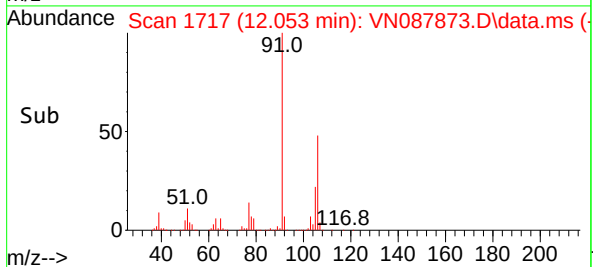
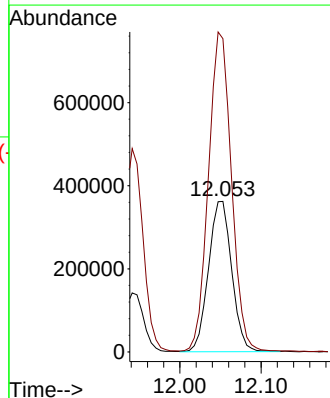
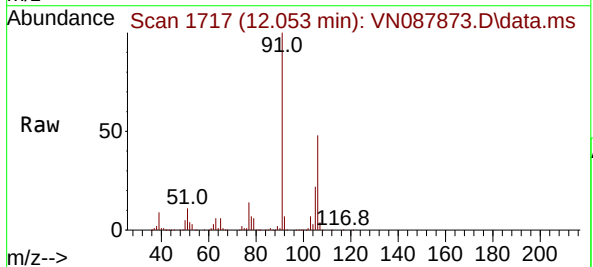
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

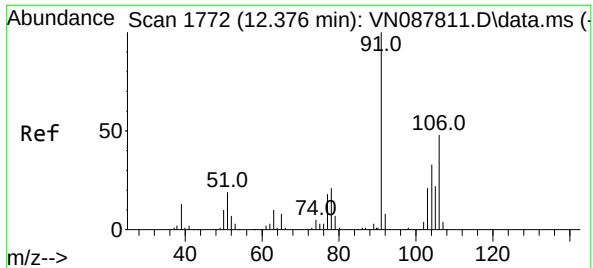
Tgt Ion: 91 Resp: 827192  
Ion Ratio Lower Upper  
91 100  
106 29.0 21.3 31.9



#67  
m/p-Xylenes  
Concen: 107.037 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 106 Resp: 720077  
Ion Ratio Lower Upper  
106 100  
91 209.4 174.3 261.5

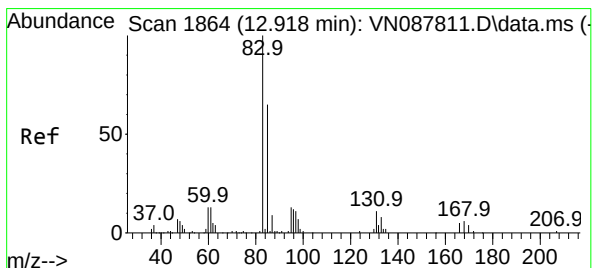
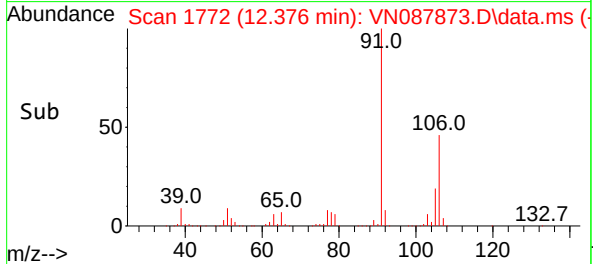
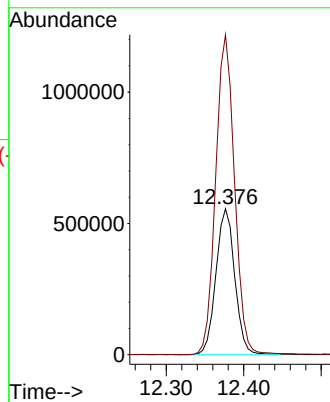
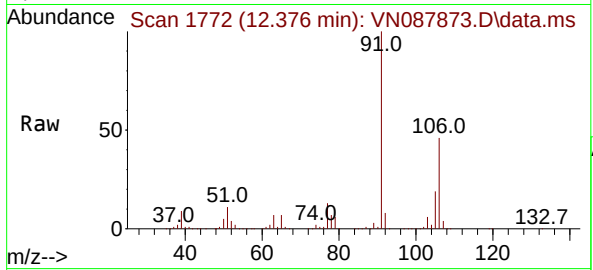




#68  
o-Xylene  
Concen: 143.670 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

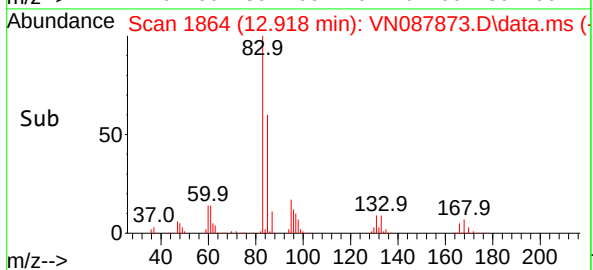
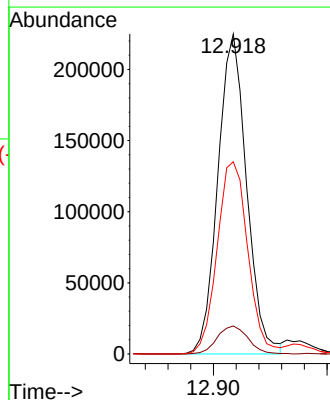
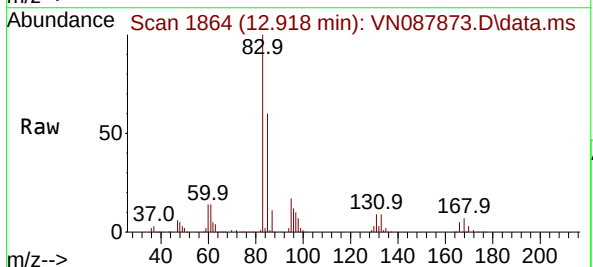
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

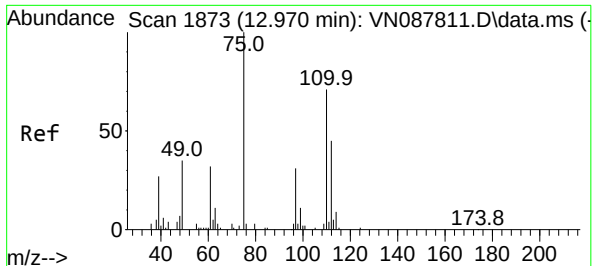
Tgt Ion:106 Resp: 937122  
Ion Ratio Lower Upper  
106 100  
91 219.9 107.7 323.3



#71  
1,1,2,2-Tetrachloroethane  
Concen: 66.568 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 83 Resp: 395797  
Ion Ratio Lower Upper  
83 100  
131 9.4 4.8 14.3  
85 64.0 31.9 95.7

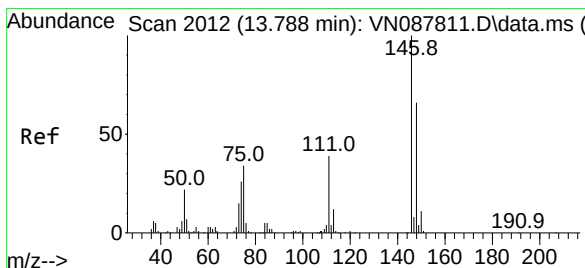
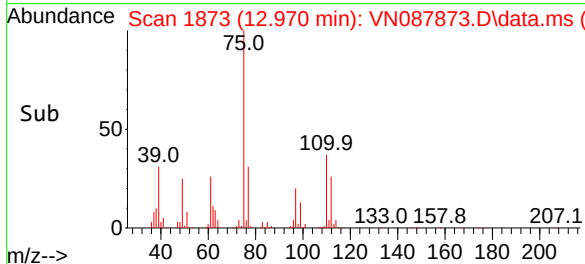
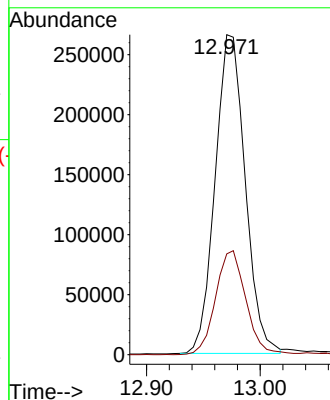
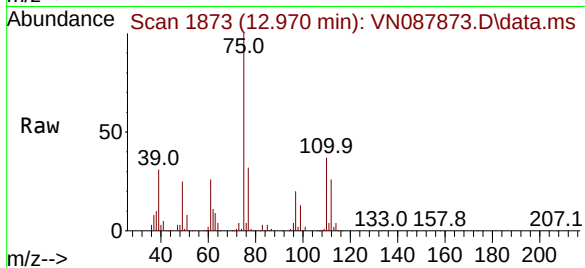




#72  
1,2,3-Trichloropropane  
Concen: 83.587 ug/l  
RT: 12.970 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

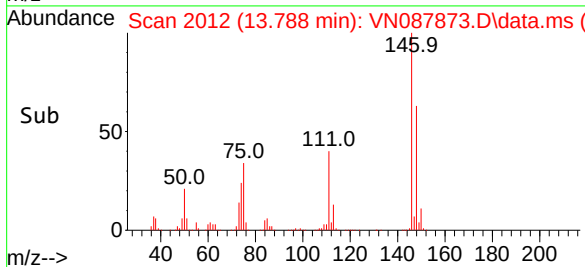
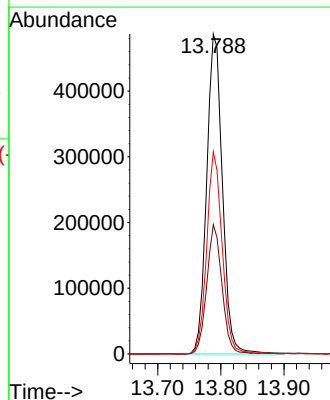
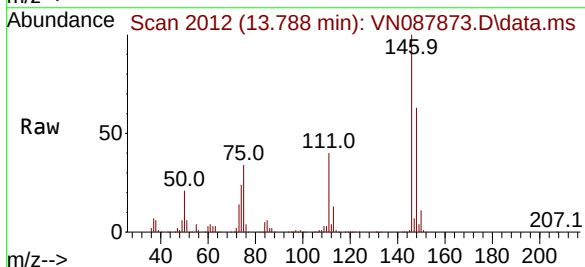
Instrument :  
MSVOA\_N  
ClientSampleId :  
WP0925-PT-VOA-WP

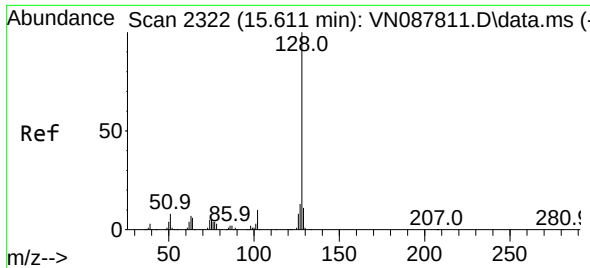
Tgt Ion: 75 Resp: 487981  
Ion Ratio Lower Upper  
75 100  
77 32.9 0.0 378.8



#84  
1,4-Dichlorobenzene  
Concen: 108.066 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN087873.D  
Acq: 17 Sep 2025 12:38

Tgt Ion: 146 Resp: 845011  
Ion Ratio Lower Upper  
146 100  
111 38.8 20.2 60.5  
148 61.8 31.5 94.5





#91

Naphthalene

Concen: 76.014 ug/l

RT: 15.611 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087873.D

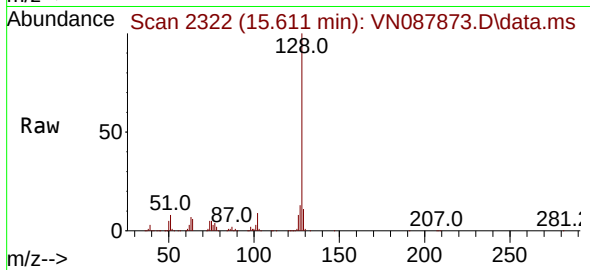
Acq: 17 Sep 2025 12:38

Instrument :

MSVOA\_N

ClientSampleId :

WP0925-PT-VOA-WP



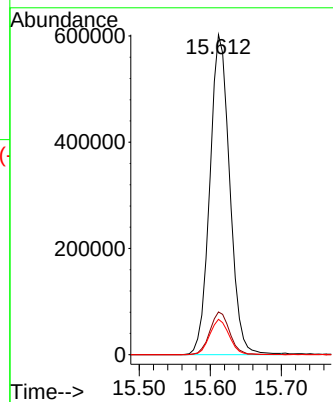
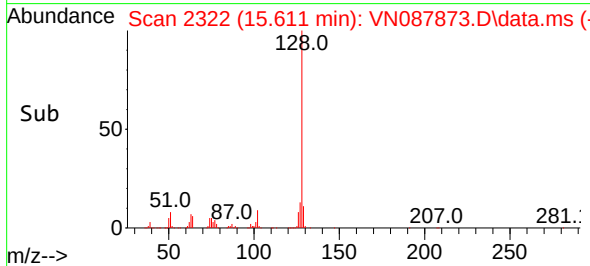
Tgt Ion:128 Resp: 1171082

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

129 10.9 8.3 12.5





# CALIBRATION SUMMARY

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

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG No.: Q3015  
 Instrument ID: MSVOA\_N Calibration Date(s): 09/04/2025 09/04/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 16:23 17:46  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:                   |  | RRF005 = VN087725.D |        | RRF020 = VN087726.D |        | RRF050 = VN087727.D |     | RRF100 = VN087728.D |       | RRF150 = VN087729.D |  | RRF = |  |  |  |
|--------------------------------|--|---------------------|--------|---------------------|--------|---------------------|-----|---------------------|-------|---------------------|--|-------|--|--|--|
| COMPOUND                       |  | RRF005              | RRF020 | RRF050              | RRF100 | RRF150              | RRF | RRF                 | % RSD |                     |  |       |  |  |  |
| Dichlorodifluoromethane        |  | 1.642               | 1.750  | 2.035               | 2.008  | 1.888               |     | 1.865               | 9     |                     |  |       |  |  |  |
| Chloromethane                  |  | 1.939               | 1.792  | 2.026               | 2.037  | 1.992               |     | 1.957               | 5.1   |                     |  |       |  |  |  |
| Vinyl Chloride                 |  | 2.110               | 2.001  | 2.388               | 2.315  | 2.249               |     | 2.213               | 7.1   |                     |  |       |  |  |  |
| Ethyl Acetate                  |  | 0.673               | 0.647  | 0.704               | 0.704  | 0.703               |     | 0.686               | 3.8   |                     |  |       |  |  |  |
| Bromomethane                   |  | 1.293               | 1.108  | 1.325               | 1.377  | 1.387               |     | 1.298               | 8.7   |                     |  |       |  |  |  |
| Chloroethane                   |  | 1.599               | 1.358  | 1.577               | 1.521  | 1.506               |     | 1.512               | 6.2   |                     |  |       |  |  |  |
| Trichlorofluoromethane         |  | 3.241               | 2.904  | 3.445               | 3.355  | 3.271               |     | 3.243               | 6.3   |                     |  |       |  |  |  |
| 1,1,2-Trichlorotrifluoroethane |  | 1.776               | 1.591  | 1.904               | 1.779  | 1.733               |     | 1.757               | 6.4   |                     |  |       |  |  |  |
| 1,1-Dichloroethene             |  | 1.836               | 1.575  | 1.915               | 1.883  | 1.846               |     | 1.811               | 7.5   |                     |  |       |  |  |  |
| Acrolein                       |  | 0.523               | 0.431  | 0.496               | 0.518  | 0.518               |     | 0.497               | 7.7   |                     |  |       |  |  |  |
| Acrylonitrile                  |  | 1.167               | 1.051  | 1.253               | 1.274  | 1.263               |     | 1.202               | 7.9   |                     |  |       |  |  |  |
| Acetone                        |  | 0.487               | 0.319  | 0.366               | 0.355  | 0.349               |     | 0.375               | 17.3  |                     |  |       |  |  |  |
| Carbon Disulfide               |  | 4.965               | 4.353  | 5.190               | 5.135  | 5.219               |     | 4.972               | 7.2   |                     |  |       |  |  |  |
| Methyl tert-Butyl Ether        |  | 5.787               | 5.537  | 6.897               | 6.968  | 7.139               |     | 6.466               | 11.5  |                     |  |       |  |  |  |
| Methylene Chloride             |  | 2.174               | 1.759  | 2.150               | 2.090  | 2.084               |     | 2.052               | 8.2   |                     |  |       |  |  |  |
| trans-1,2-Dichloroethene       |  | 1.709               | 1.652  | 1.947               | 1.965  | 1.962               |     | 1.847               | 8.3   |                     |  |       |  |  |  |
| Vinyl Acetate                  |  | 1.035               | 1.002  | 1.168               | 1.220  | 1.186               |     | 1.122               | 8.6   |                     |  |       |  |  |  |
| 1,1-Dichloroethane             |  | 3.750               | 3.277  | 3.899               | 3.878  | 3.823               |     | 3.725               | 6.9   |                     |  |       |  |  |  |
| 2-Butanone                     |  | 0.348               | 0.303  | 0.339               | 0.348  | 0.342               |     | 0.336               | 5.6   |                     |  |       |  |  |  |
| Carbon Tetrachloride           |  | 0.526               | 0.466  | 0.530               | 0.533  | 0.522               |     | 0.515               | 5.5   |                     |  |       |  |  |  |
| 2,2-Dichloropropane            |  | 0.613               | 0.495  | 0.606               | 0.616  | 0.609               |     | 0.588               | 8.8   |                     |  |       |  |  |  |
| cis-1,2-Dichloroethene         |  | 2.078               | 1.988  | 2.367               | 2.370  | 2.406               |     | 2.242               | 8.6   |                     |  |       |  |  |  |
| Chloroform                     |  | 3.785               | 3.484  | 4.143               | 4.049  | 4.035               |     | 3.899               | 6.9   |                     |  |       |  |  |  |
| 1,1,1-Trichloroethane          |  | 0.599               | 0.582  | 0.635               | 0.647  | 0.628               |     | 0.618               | 4.4   |                     |  |       |  |  |  |
| 1,1-Dichloropropene            |  | 0.462               | 0.448  | 0.506               | 0.516  | 0.505               |     | 0.488               | 6.2   |                     |  |       |  |  |  |
| Benzene                        |  | 1.514               | 1.442  | 1.630               | 1.657  | 1.636               |     | 1.576               | 5.9   |                     |  |       |  |  |  |
| 1,2-Dichloroethane             |  | 0.595               | 0.554  | 0.609               | 0.618  | 0.600               |     | 0.595               | 4.1   |                     |  |       |  |  |  |
| Trichloroethene                |  | 0.352               | 0.323  | 0.364               | 0.366  | 0.357               |     | 0.352               | 5     |                     |  |       |  |  |  |
| 1,2-Dichloropropane            |  | 0.394               | 0.374  | 0.407               | 0.428  | 0.415               |     | 0.404               | 5     |                     |  |       |  |  |  |
| Dibromomethane                 |  | 0.301               | 0.275  | 0.307               | 0.315  | 0.304               |     | 0.300               | 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.

## VOLATILE ORGANICS INITIAL CALIBRATION DATA

|                     |                                     |                      |                                     |
|---------------------|-------------------------------------|----------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>                     | Contract:            | <u>ALLI03</u>                       |
| Lab Code:           | <u>ACE</u>                          | SDG No.:             | <u>Q3015</u>                        |
| Instrument ID:      | <u>MSVOA_N</u>                      | Calibration Date(s): | <u>09/04/2025</u> <u>09/04/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>                            | Calibration Time(s): | <u>16:23</u> <u>17:46</u>           |
| GC Column:          | <u>RXI-624</u> ID: <u>0.25</u> (mm) |                      |                                     |

| LAB FILE ID:              |        | RRF005 = VN087725.D |        | RRF020 = VN087726.D |        | RRF050 = VN087727.D |       |
|---------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|
|                           |        | RRF100 = VN087728.D |        | RRF150 = VN087729.D |        | RRF =               |       |
| COMPOUND                  | RRF005 | RRF020              | RRF050 | RRF100              | RRF150 | RRF                 | % RSD |
| Bromodichloromethane      | 0.612  | 0.570               | 0.616  | 0.647               | 0.624  | 0.614               | 4.5   |
| 4-Methyl-2-Pentanone      | 0.666  | 0.655               | 0.734  | 0.754               | 0.738  | 0.709               | 6.4   |
| Toluene                   | 1.705  | 1.673               | 1.868  | 1.935               | 1.893  | 1.815               | 6.5   |
| t-1,3-Dichloropropene     | 0.594  | 0.556               | 0.653  | 0.696               | 0.689  | 0.638               | 9.5   |
| cis-1,3-Dichloropropene   | 0.607  | 0.566               | 0.678  | 0.712               | 0.702  | 0.653               | 9.7   |
| 1,1,2-Trichloroethane     | 0.388  | 0.354               | 0.399  | 0.401               | 0.398  | 0.388               | 5.1   |
| 1,3-Dichloropropane       | 0.636  | 0.623               | 0.694  | 0.719               | 0.695  | 0.674               | 6.2   |
| 2-Chloroethyl vinyl ether | 0.310  | 0.319               | 0.339  | 0.377               | 0.384  | 0.346               | 9.7   |
| 2-Hexanone                | 0.334  | 0.419               | 0.508  | 0.533               | 0.523  | 0.464               | 18.4  |
| Dibromochloromethane      | 0.420  | 0.369               | 0.454  | 0.468               | 0.464  | 0.435               | 9.5   |
| 1,2-Dibromoethane         | 0.386  | 0.363               | 0.421  | 0.423               | 0.425  | 0.404               | 6.9   |
| Tetrachloroethene         | 0.312  | 0.279               | 0.297  | 0.306               | 0.300  | 0.299               | 4.2   |
| Chlorobenzene             | 1.063  | 1.006               | 1.127  | 1.191               | 1.182  | 1.114               | 7.1   |
| 1,1,1,2-Tetrachloroethane | 0.395  | 0.354               | 0.399  | 0.411               | 0.401  | 0.392               | 5.7   |
| Ethyl Benzene             | 1.736  | 1.744               | 2.042  | 2.145               | 2.122  | 1.958               | 10.3  |
| m/p-Xylenes               | 0.629  | 0.642               | 0.776  | 0.800               | 0.785  | 0.727               | 11.5  |
| o-Xylene                  | 0.603  | 0.639               | 0.731  | 0.774               | 0.776  | 0.705               | 11.2  |
| Styrene                   | 0.997  | 1.076               | 1.311  | 1.375               | 1.364  | 1.225               | 14.3  |
| Bromoform                 | 0.265  | 0.242               | 0.289  | 0.312               | 0.313  | 0.284               | 10.8  |
| Isopropylbenzene          | 1.538  | 1.555               | 1.896  | 1.984               | 1.960  | 1.787               | 12.4  |
| 1,1,2,2-Tetrachloroethane | 0.616  | 0.605               | 0.666  | 0.670               | 0.655  | 0.642               | 4.6   |
| 1,2,3-Trichloropropane    | 0.672  | 0.640               | 0.612  | 0.625               | 0.605  | 0.631               | 4.3   |
| Bromobenzene              | 0.429  | 0.393               | 0.442  | 0.464               | 0.457  | 0.437               | 6.4   |
| n-propylbenzene           | 1.942  | 2.018               | 2.404  | 2.485               | 2.423  | 2.254               | 11.3  |
| 2-Chlorotoluene           | 1.178  | 1.243               | 1.456  | 1.465               | 1.442  | 1.357               | 10    |
| 1,3,5-Trimethylbenzene    | 1.292  | 1.352               | 1.616  | 1.666               | 1.617  | 1.509               | 11.5  |
| 4-Chlorotoluene           | 1.091  | 1.260               | 1.493  | 1.505               | 1.490  | 1.368               | 13.6  |
| 1,2,4-Trimethylbenzene    | 1.292  | 1.405               | 1.677  | 1.697               | 1.663  | 1.547               | 12    |
| sec-Butylbenzene          | 1.629  | 1.677               | 1.986  | 2.034               | 1.966  | 1.858               | 10.2  |
| p-Isopropyltoluene        | 1.311  | 1.361               | 1.655  | 1.693               | 1.637  | 1.531               | 11.8  |

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



## VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG No.: Q3015  
 Instrument ID: MSVOA\_N Calibration Date(s): 09/04/2025 09/04/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 16:23 17:46  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:                |        | RRF005 = VN087725.D |        | RRF020 = VN087726.D |        | RRF050 = VN087727.D |       |       |
|-----------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|
|                             |        | RRF100 = VN087728.D |        | RRF150 = VN087729.D |        | RRF =               |       |       |
| COMPOUND                    | RRF005 | RRF020              | RRF050 | RRF100              | RRF150 | RRF                 | RRF   | % RSD |
| 1,3-Dichlorobenzene         | 0.762  | 0.789               | 0.888  | 0.900               | 0.874  |                     | 0.843 | 7.5   |
| 1,4-Dichlorobenzene         | 0.778  | 0.776               | 0.895  | 0.908               | 0.867  |                     | 0.845 | 7.5   |
| n-Butylbenzene              | 1.249  | 1.282               | 1.609  | 1.636               | 1.583  |                     | 1.472 | 12.9  |
| 1,2-Dichlorobenzene         | 0.718  | 0.733               | 0.839  | 0.855               | 0.828  |                     | 0.795 | 8.1   |
| 1,2-Dibromo-3-Chloropropane | 0.123  | 0.139               | 0.146  | 0.154               | 0.152  |                     | 0.143 | 8.9   |
| 1,2,4-Trichlorobenzene      | 0.410  | 0.400               | 0.471  | 0.491               | 0.488  |                     | 0.452 | 9.7   |
| Hexachlorobutadiene         | 0.146  | 0.146               | 0.155  | 0.160               | 0.152  |                     | 0.152 | 4     |
| Naphthalene                 | 1.306  | 1.443               | 1.764  | 1.891               | 1.918  |                     | 1.664 | 16.5  |
| 1,2,3-Trichlorobenzene      | 0.410  | 0.400               | 0.471  | 0.491               | 0.488  |                     | 0.452 | 9.7   |
| 1,2-Dichloroethane-d4       | 2.618  | 2.509               | 2.604  | 2.499               | 2.583  |                     | 2.563 | 2.2   |
| Toluene-d8                  | 1.403  | 1.411               | 1.392  | 1.402               | 1.369  |                     | 1.395 | 1.2   |
| 4-Bromofluorobenzene        | 0.454  | 0.489               | 0.475  | 0.501               | 0.492  |                     | 0.482 | 3.8   |

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 624N090425W.M  
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 Last Update : Fri Sep 05 03:29:53 2025  
 Response Via : Initial Calibration

## Calibration Files

5 =VN087725.D 20 =VN087726.D 50 =VN087727.D 100 =VN087728.D 150 =VN087729.D

|       | Compound            | 5              | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|-------|---------------------|----------------|-------|-------|-------|-------|-------|-------|
| 1) I  | Bromochloromethane  | -----ISTD----- |       |       |       |       |       |       |
| 2) M  | Dichlorodifluoro... | 1.642          | 1.750 | 2.035 | 2.008 | 1.888 | 1.865 | 9.01  |
| 3) M  | Chloromethane       | 1.939          | 1.792 | 2.026 | 2.037 | 1.992 | 1.957 | 5.12  |
| 4) M  | Vinyl Chloride      | 2.110          | 2.001 | 2.388 | 2.315 | 2.249 | 2.213 | 7.09  |
| 5) M  | Bromomethane        | 1.293          | 1.108 | 1.325 | 1.377 | 1.387 | 1.298 | 8.72  |
| 6) M  | Chloroethane        | 1.599          | 1.358 | 1.577 | 1.521 | 1.506 | 1.512 | 6.25  |
| 7) M  | Trichlorofluorom... | 3.241          | 2.904 | 3.445 | 3.355 | 3.271 | 3.243 | 6.34  |
| 8) T  | Diethyl Ether       | 1.457          | 1.168 | 1.441 | 1.379 | 1.403 | 1.370 | 8.52  |
| 9)    | 1,1,2-Trichlorot... | 1.776          | 1.591 | 1.904 | 1.779 | 1.733 | 1.757 | 6.40  |
| 10) M | 1,1-Dichloroethene  | 1.836          | 1.575 | 1.915 | 1.883 | 1.846 | 1.811 | 7.50  |
| 11)   | Methyl Iodide       | 0.809          | 0.935 | 1.355 | 1.579 | 1.732 | 1.282 | 31.21 |
| 12)   | Methyl Acetate      | 2.516          | 2.540 | 2.953 | 2.978 | 2.972 | 2.792 | 8.63  |
| 13) M | Acrolein            | 0.523          | 0.431 | 0.496 | 0.518 | 0.518 | 0.497 | 7.67  |
| 14) M | Acrylonitrile       | 1.167          | 1.051 | 1.253 | 1.274 | 1.263 | 1.202 | 7.87  |
| 15) M | Acetone             | 0.487          | 0.319 | 0.366 | 0.355 | 0.349 | 0.375 | 17.29 |
| 16) M | Carbon Disulfide    | 4.965          | 4.353 | 5.190 | 5.135 | 5.219 | 4.972 | 7.24  |
| 17)   | Allyl chloride      | 3.004          | 2.541 | 3.014 | 3.085 | 3.147 | 2.958 | 8.13  |
| 18) M | Methylene Chloride  | 2.174          | 1.759 | 2.150 | 2.090 | 2.084 | 2.052 | 8.19  |
| 19) M | trans-1,2-Dichlo... | 1.709          | 1.652 | 1.947 | 1.965 | 1.962 | 1.847 | 8.31  |
| 20) T | Diisopropyl ether   | 6.079          | 5.922 | 7.317 | 7.335 | 7.360 | 6.802 | 10.80 |
| 21) M | 1,1-Dichloroethane  | 3.750          | 3.277 | 3.899 | 3.878 | 3.823 | 3.725 | 6.90  |
| 22) M | cis-1,2-Dichloro... | 2.078          | 1.988 | 2.367 | 2.370 | 2.406 | 2.242 | 8.64  |
| 23) M | tert-Butyl Alcohol  | 0.422          | 0.383 | 0.436 | 0.436 | 0.448 | 0.425 | 5.94  |
| 24) M | Methyl tert-Buty... | 5.787          | 5.537 | 6.897 | 6.968 | 7.139 | 6.466 | 11.51 |
| 25) M | Chloroform          | 3.785          | 3.484 | 4.143 | 4.049 | 4.035 | 3.899 | 6.85  |
| 26)   | Cyclohexane         | 2.568          | 2.447 | 3.169 | 3.015 | 2.984 | 2.837 | 10.98 |
| 27) s | 1,2-Dichloroetha... | 2.618          | 2.509 | 2.604 | 2.499 | 2.583 | 2.563 | 2.15  |
| 28) I | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |
| 29)   | 1,1-Dichloropropene | 0.462          | 0.448 | 0.506 | 0.516 | 0.505 | 0.488 | 6.20  |
| 30) M | 2-Butanone          | 0.348          | 0.303 | 0.339 | 0.348 | 0.342 | 0.336 | 5.65  |
| 31)   | 2,2-Dichloropropane | 0.613          | 0.495 | 0.606 | 0.616 | 0.609 | 0.588 | 8.81  |
| 32) M | 1,1,1-Trichloroe... | 0.599          | 0.582 | 0.635 | 0.647 | 0.628 | 0.618 | 4.35  |
| 33) M | Carbon Tetrachlo... | 0.526          | 0.466 | 0.530 | 0.533 | 0.522 | 0.515 | 5.45  |
| 34) M | Benzene             | 1.514          | 1.442 | 1.630 | 1.657 | 1.636 | 1.576 | 5.91  |
| 35)   | Methacrylonitrile   | 0.313          | 0.344 | 0.357 | 0.377 | 0.365 | 0.351 | 6.95  |
| 36) M | 1,2-Dichloroethane  | 0.595          | 0.554 | 0.609 | 0.618 | 0.600 | 0.595 | 4.15  |
| 37) M | Trichloroethene     | 0.352          | 0.323 | 0.364 | 0.366 | 0.357 | 0.352 | 4.96  |
| 38)   | Methylcyclohexane   | 0.523          | 0.476 | 0.561 | 0.576 | 0.548 | 0.537 | 7.24  |
| 39) M | 1,2-Dichloropropane | 0.394          | 0.374 | 0.407 | 0.428 | 0.415 | 0.404 | 5.03  |
| 40)   | Dibromomethane      | 0.301          | 0.275 | 0.307 | 0.315 | 0.304 | 0.300 | 5.06  |
| 41) M | Bromodichloromet... | 0.612          | 0.570 | 0.616 | 0.647 | 0.624 | 0.614 | 4.54  |
| 42) M | Vinyl Acetate       | 1.035          | 1.002 | 1.168 | 1.220 | 1.186 | 1.122 | 8.64  |
| 43)   | Ethyl Acetate       | 0.673          | 0.647 | 0.704 | 0.704 | 0.703 | 0.686 | 3.78  |
| 44)   | Isopropyl Acetate   | 0.957          | 0.995 | 1.115 | 1.175 | 1.137 | 1.076 | 8.78  |
| 45) T | 1,4-Dioxane         | 0.006          | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 7.51  |
| 46)   | Methyl methacrylate | 0.457          | 0.443 | 0.514 | 0.544 | 0.521 | 0.496 | 8.79  |
| 47)   | n-amyl Acetate      | 0.748          | 0.518 | 0.763 | 0.791 | 0.816 | 0.727 | 16.47 |
| 48) M | t-1,3-Dichloropr... | 0.594          | 0.556 | 0.653 | 0.696 | 0.689 | 0.638 | 9.53  |
| 49) T | cis-1,3-Dichloro... | 0.607          | 0.566 | 0.678 | 0.712 | 0.702 | 0.653 | 9.73  |
| 50) M | 1,1,2-Trichloroe... | 0.388          | 0.354 | 0.399 | 0.401 | 0.398 | 0.388 | 5.07  |
| 51)   | Ethyl methacrylate  | 0.434          | 0.513 | 0.662 | 0.703 | 0.706 | 0.604 | 20.43 |
| 52)   | 1,3-Dichloropropane | 0.636          | 0.623 | 0.694 | 0.719 | 0.695 | 0.674 | 6.16  |
| 53) M | Dibromochloromet... | 0.420          | 0.369 | 0.454 | 0.468 | 0.464 | 0.435 | 9.54  |
| 54) M | 1,2-Dibromoethane   | 0.386          | 0.363 | 0.421 | 0.423 | 0.425 | 0.404 | 6.91  |
| 55) M | 2-Chloroethyl vi... | 0.310          | 0.319 | 0.339 | 0.377 | 0.384 | 0.346 | 9.67  |
| 56) M | Bromoform           | 0.265          | 0.242 | 0.289 | 0.312 | 0.313 | 0.284 | 10.82 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 624N090425W.M

|       |                     | -----ISTD----- |       |       |       |       |       |  |       |
|-------|---------------------|----------------|-------|-------|-------|-------|-------|--|-------|
| 57) I | Chlorobenzene-d5    |                |       |       |       |       |       |  |       |
| 58) M | 4-Methyl-2-Penta... | 0.666          | 0.655 | 0.734 | 0.754 | 0.738 | 0.709 |  | 6.43  |
| 59) M | 2-Hexanone          | 0.334          | 0.419 | 0.508 | 0.533 | 0.523 | 0.464 |  | 18.40 |
| 60) S | 4-Bromofluoroben... | 0.454          | 0.489 | 0.475 | 0.501 | 0.492 | 0.482 |  | 3.78  |
| 61) M | Tetrachloroethene   | 0.312          | 0.279 | 0.297 | 0.306 | 0.300 | 0.299 |  | 4.22  |
| 62) M | Toluene             | 1.705          | 1.673 | 1.868 | 1.935 | 1.893 | 1.815 |  | 6.50  |
| 63) S | Toluene-d8          | 1.403          | 1.411 | 1.392 | 1.402 | 1.369 | 1.395 |  | 1.16  |
| 64) M | Chlorobenzene       | 1.063          | 1.006 | 1.127 | 1.191 | 1.182 | 1.114 |  | 7.10  |
| 65)   | 1,1,1,2-Tetrachl... | 0.395          | 0.354 | 0.399 | 0.411 | 0.401 | 0.392 |  | 5.66  |
| 66) M | Ethyl Benzene       | 1.736          | 1.744 | 2.042 | 2.145 | 2.122 | 1.958 |  | 10.34 |
| 67) M | m/p-Xylenes         | 0.629          | 0.642 | 0.776 | 0.800 | 0.785 | 0.727 |  | 11.50 |
| 68) M | o-Xylene            | 0.603          | 0.639 | 0.731 | 0.774 | 0.776 | 0.705 |  | 11.24 |
| 69) M | Styrene             | 0.997          | 1.076 | 1.311 | 1.375 | 1.364 | 1.225 |  | 14.33 |
| 70)   | Isopropylbenzene    | 1.538          | 1.555 | 1.896 | 1.984 | 1.960 | 1.787 |  | 12.39 |
| 71) M | 1,1,2,2-Tetrachl... | 0.616          | 0.605 | 0.666 | 0.670 | 0.655 | 0.642 |  | 4.63  |
| 72)   | 1,2,3-Trichlorop... | 0.672          | 0.640 | 0.612 | 0.625 | 0.605 | 0.631 |  | 4.26  |
| 73)   | Bromobenzene        | 0.429          | 0.393 | 0.442 | 0.464 | 0.457 | 0.437 |  | 6.40  |
| 74)   | n-propylbenzene     | 1.942          | 2.018 | 2.404 | 2.485 | 2.423 | 2.254 |  | 11.26 |
| 75)   | 2-Chlorotoluene     | 1.178          | 1.243 | 1.456 | 1.465 | 1.442 | 1.357 |  | 10.00 |
| 76)   | 1,3,5-Trimethylb... | 1.292          | 1.352 | 1.616 | 1.666 | 1.617 | 1.509 |  | 11.46 |
| 77)   | t-1,4-Dichloro-2... | 0.155          | 0.182 | 0.224 | 0.247 | 0.257 | 0.213 |  | 20.35 |
| 78)   | 4-Chlorotoluene     | 1.091          | 1.260 | 1.493 | 1.505 | 1.490 | 1.368 |  | 13.57 |
| 79)   | tert-butylbenzene   | 1.073          | 1.133 | 1.357 | 1.393 | 1.360 | 1.263 |  | 11.75 |
| 80)   | 1,2,4-Trimethylb... | 1.292          | 1.405 | 1.677 | 1.697 | 1.663 | 1.547 |  | 12.01 |
| 81)   | sec-Butylbenzene    | 1.629          | 1.677 | 1.986 | 2.034 | 1.966 | 1.858 |  | 10.21 |
| 82)   | p-Isopropyltoluene  | 1.311          | 1.361 | 1.655 | 1.693 | 1.637 | 1.531 |  | 11.78 |
| 83) M | 1,3-Dichlorobenzene | 0.762          | 0.789 | 0.888 | 0.900 | 0.874 | 0.843 |  | 7.45  |
| 84) M | 1,4-Dichlorobenzene | 0.778          | 0.776 | 0.895 | 0.908 | 0.867 | 0.845 |  | 7.52  |
| 85)   | n-Butylbenzene      | 1.249          | 1.282 | 1.609 | 1.636 | 1.583 | 1.472 |  | 12.88 |
| 86) T | Hexachloroethane    | 0.287          | 0.286 | 0.328 | 0.330 | 0.324 | 0.311 |  | 7.24  |
| 87) M | 1,2-Dichlorobenzene | 0.718          | 0.733 | 0.839 | 0.855 | 0.828 | 0.795 |  | 8.07  |
| 88)   | 1,2-Dibromo-3-Ch... | 0.123          | 0.139 | 0.146 | 0.154 | 0.152 | 0.143 |  | 8.87  |
| 89)   | 1,2,4-Trichlorob... | 0.410          | 0.400 | 0.471 | 0.491 | 0.488 | 0.452 |  | 9.70  |
| 90)   | Hexachlorobutadiene | 0.146          | 0.146 | 0.155 | 0.160 | 0.152 | 0.152 |  | 3.95  |
| 91) M | Naphthalene         | 1.306          | 1.443 | 1.764 | 1.891 | 1.918 | 1.664 |  | 16.54 |
| 92)   | 1,2,3-Trichlorob... | 0.410          | 0.400 | 0.471 | 0.491 | 0.488 | 0.452 |  | 9.70  |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087725.D  
 Acq On : 04 Sep 2025 16:23  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC005

## Manual Integrations

## APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:55:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 42575      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 216859     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 197903     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 111481     | 29.081   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 96.933%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 89929      | 26.721   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 89.067%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 277568     | 30.356   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.200% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 11648      | 4.330    | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 13757      | 5.010    | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.542          | 62   | 14969      | 5.086    | ug/l   | 96       |
| 5) Bromomethane              | 2.977          | 94   | 9176       | 5.656    | ug/l # | 80       |
| 6) Chloroethane              | 3.136          | 64   | 11348      | 5.889    | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 22997      | 5.390    | ug/l   | 92       |
| 8) Diethyl Ether             | 3.965          | 74   | 10337m     | 5.839    | ug/l   |          |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 12605m     | 5.679    | ug/l   |          |
| 10) 1,1-Dichloroethene       | 4.330          | 96   | 13028      | 5.695    | ug/l # | 69       |
| 11) Methyl Iodide            | 4.594          | 142  | 5738m      | 3.195    | ug/l   |          |
| 12) Methyl Acetate           | 5.024          | 43   | 17852      | 4.306    | ug/l   | 99       |
| 13) Acrolein                 | 4.183          | 56   | 18545      | 28.610   | ug/l # | 68       |
| 14) Acrylonitrile            | 5.712          | 53   | 41406      | 23.088   | ug/l   | 66       |
| 15) Acetone                  | 4.418          | 58   | 17262m     | 33.931   | ug/l   |          |
| 16) Carbon Disulfide         | 4.694          | 76   | 35228      | 5.033    | ug/l   | 97       |
| 17) Allyl chloride           | 5.012          | 41   | 21319m     | 4.722    | ug/l   |          |
| 18) Methylene Chloride       | 5.265          | 84   | 15429      | 5.346    | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 12127m     | 4.541    | ug/l   |          |
| 20) Diisopropyl ether        | 6.659          | 45   | 43135      | 4.193    | ug/l # | 97       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 26606      | 4.973    | ug/l   | 95       |
| 22) cis-1,2-Dichloroethene   | 7.477          | 96   | 14747      | 4.514    | ug/l   | 91       |
| 23) tert-Butyl Alcohol       | 5.524          | 59   | 14989m     | 20.107   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.777          | 73   | 41065m     | 4.097    | ug/l   |          |
| 25) Chloroform               | 7.947          | 83   | 26857      | 4.769    | ug/l   | 89       |
| 26) Cyclohexane              | 8.241          | 56   | 18224      | 4.308    | ug/l # | 95       |
| 29) 1,1-Dichloropropene      | 8.347          | 75   | 16714      | 4.808    | ug/l   | 81       |
| 30) 2-Butanone               | 7.471          | 43   | 62809      | 24.948   | ug/l   | 94       |
| 31) 2,2-Dichloropropane      | 7.482          | 77   | 22147m     | 5.085    | ug/l   |          |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 21664      | 4.859    | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 18997      | 5.178    | ug/l   | 91       |
| 34) Benzene                  | 8.588          | 78   | 54727      | 4.965    | ug/l # | 82       |
| 35) Methacrylonitrile        | 7.765          | 41   | 11323      | 4.140    | ug/l   | 82       |
| 36) 1,2-Dichloroethane       | 8.647          | 62   | 21499      | 4.893    | ug/l # | 88       |
| 37) Trichloroethene          | 9.335          | 130  | 12724      | 5.242    | ug/l   | 91       |
| 38) Methylcyclohexane        | 9.582          | 83   | 18908      | 4.768    | ug/l   | 96       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 14250      | 5.045    | ug/l   | 94       |
| 40) Dibromomethane           | 9.688          | 93   | 10862      | 5.143    | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 22133      | 5.018    | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.594          | 43   | 187082     | 22.588   | ug/l # | 92       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087725.D  
 Acq On : 04 Sep 2025 16:23  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:55:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 24321    | 4.902  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 34598    | 4.192  | ug/l # | 73       |
| 45) 1,4-Dioxane               | 9.688  | 88   | 4349     | 82.302 | ug/l # | 52       |
| 46) Methyl methacrylate       | 9.665  | 41   | 16516m   | 4.275  | ug/l   |          |
| 47) n-amyl Acetate            | 12.900 | 43   | 27025m   | 5.631  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.812 | 75   | 21459    | 4.564  | ug/l   | 93       |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 21937    | 4.623  | ug/l # | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 14010    | 5.222  | ug/l # | 91       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 15678    | 3.425  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 23001    | 4.782  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 15190    | 4.974  | ug/l   | 86       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 13958    | 4.937  | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 55971    | 22.629 | ug/l   | 96       |
| 56) Bromoform                 | 12.559 | 173  | 9575     | 4.732  | ug/l # | 94       |
| 58) 4-Methyl-2-Pentanone      | 10.429 | 43   | 109790   | 22.421 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.182 | 43   | 55125    | 16.623 | ug/l   | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 10301    | 5.392  | ug/l   | 92       |
| 62) Toluene                   | 10.606 | 91   | 56231    | 4.722  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 35078    | 4.801  | ug/l   | 94       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 13029    | 5.065  | ug/l   | 95       |
| 66) Ethyl Benzene             | 11.947 | 91   | 57255    | 4.362  | ug/l   | 94       |
| 67) m/p-Xylenes               | 12.047 | 106  | 41515    | 8.594  | ug/l   | 97       |
| 68) o-Xylene                  | 12.376 | 106  | 19899    | 4.176  | ug/l   | 87       |
| 69) Styrene                   | 12.388 | 104  | 32885    | 4.057  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 50734    | 4.232  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 20319    | 4.858  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.976 | 75   | 22173m   | 5.682  | ug/l   |          |
| 73) Bromobenzene              | 12.964 | 156  | 14160    | 4.997  | ug/l   | 93       |
| 74) n-propylbenzene           | 13.012 | 91   | 64047    | 4.247  | ug/l   | 97       |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 38851    | 4.188  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 42622    | 4.143  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.723 | 75   | 5106     | 3.485  | ug/l   | 92       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 35970    | 3.810  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.417 | 119  | 35406    | 4.085  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 42618    | 4.107  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 53746    | 4.253  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 43232    | 4.132  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 25121    | 4.627  | ug/l   | 95       |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 25650    | 4.693  | ug/l   | 95       |
| 85) n-Butylbenzene            | 14.029 | 91   | 41201    | 4.055  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 9454     | 4.553  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 23694    | 4.602  | ug/l   | 94       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 4041m    | 3.875  | ug/l   |          |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 13520    | 4.443  | ug/l   | 93       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 4812     | 4.125  | ug/l   | 90       |
| 91) Naphthalene               | 15.617 | 128  | 43072    | 3.756  | ug/l # | 91       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 13520    | 4.443  | ug/l   | 93       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087725.D  
 Acq On : 04 Sep 2025 16:23  
 Operator : JC\MD  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDIC005

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025

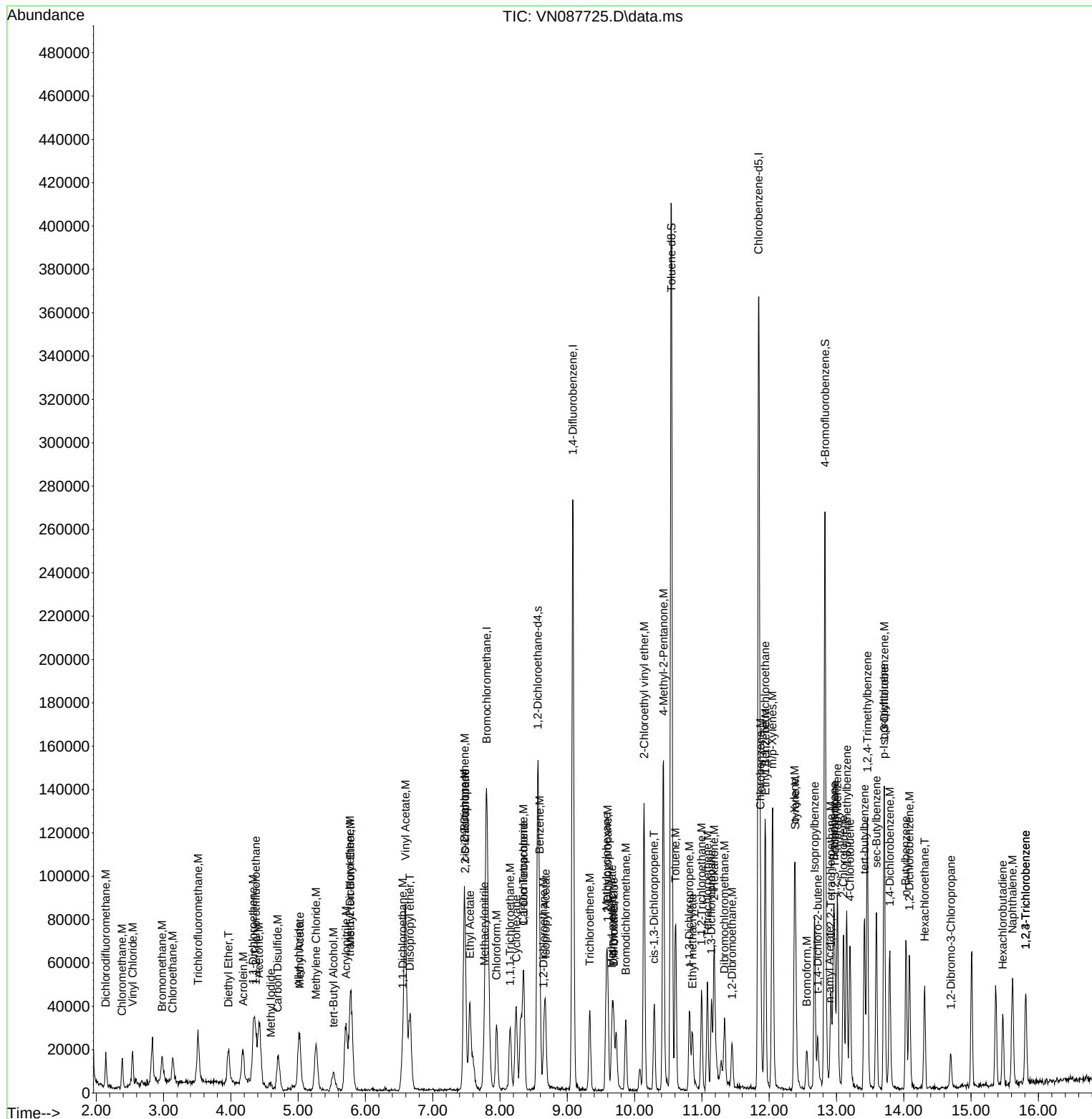
Quant Time: Sep 05 02:55:34 2025

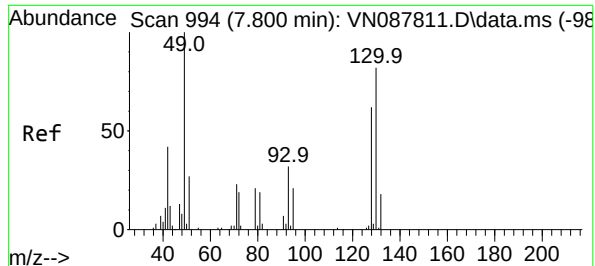
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration





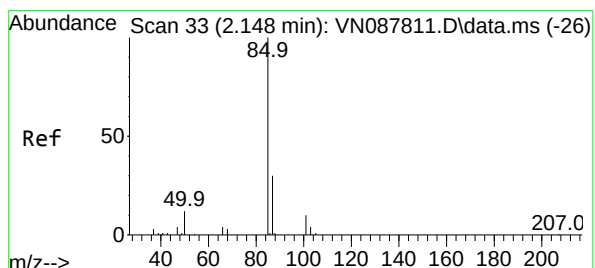
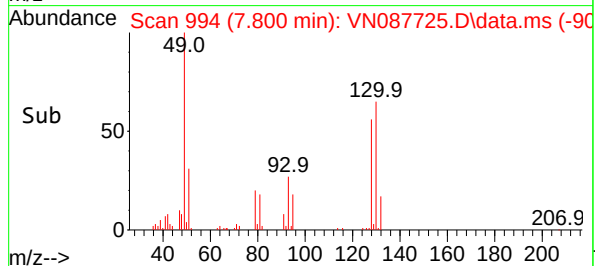
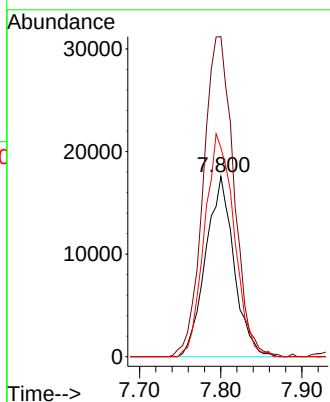
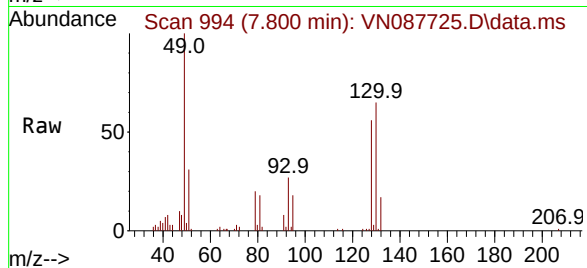
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion:128 Resp: 42575  
Ion Ratio Lower Upper  
128 100  
49 191.5 0.0 464.3  
130 129.0 0.0 300.5

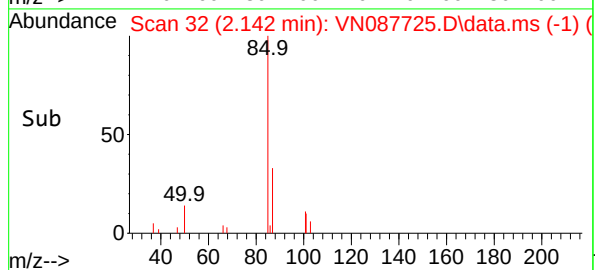
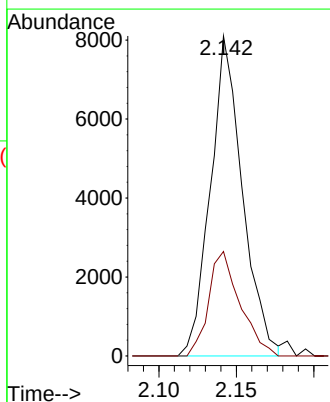
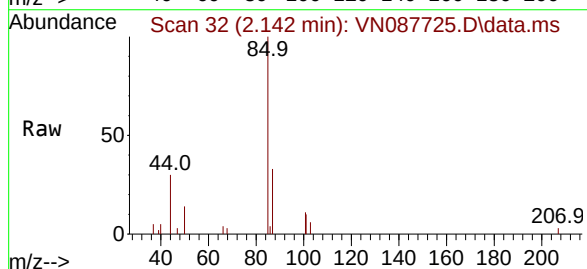
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

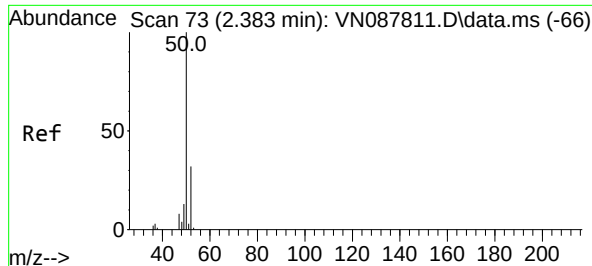


#2  
Dichlorodifluoromethane  
Concen: 4.330 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 85 Resp: 11648  
Ion Ratio Lower Upper  
85 100  
87 32.6 16.8 50.4

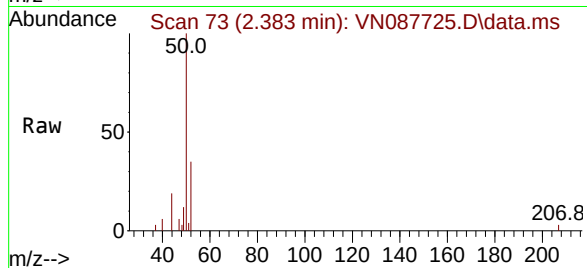






#3  
Chloromethane  
Concen: 5.010 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

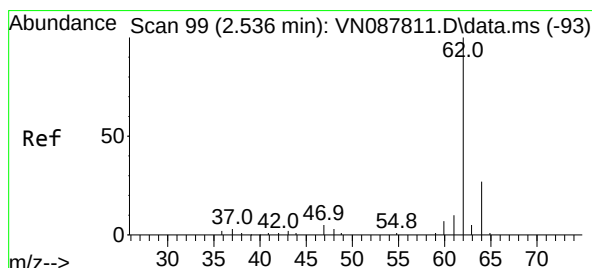
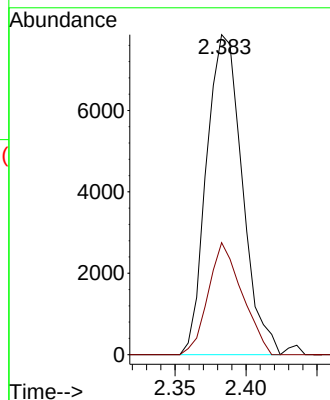
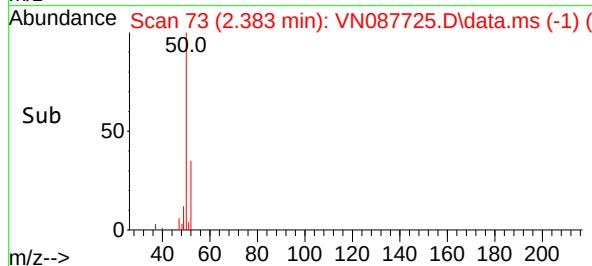
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion: 50 Resp: 1375  
Ion Ratio Lower Upper  
50 100  
52 35.0 26.6 40.0

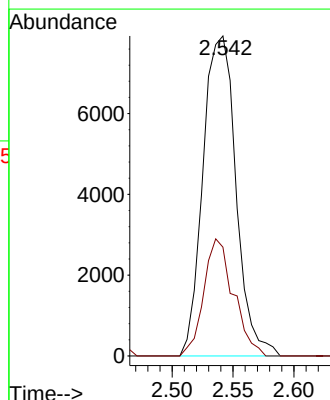
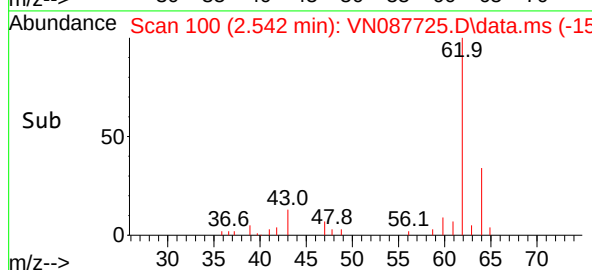
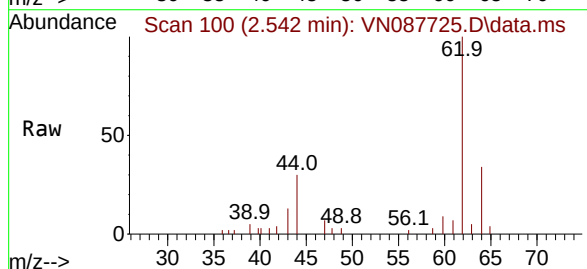
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

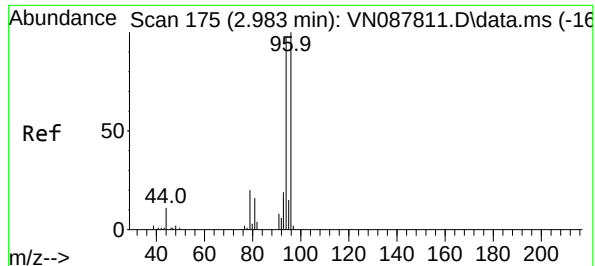


#4  
Vinyl Chloride  
Concen: 5.086 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 62 Resp: 14969  
Ion Ratio Lower Upper  
62 100  
64 34.0 25.5 38.3

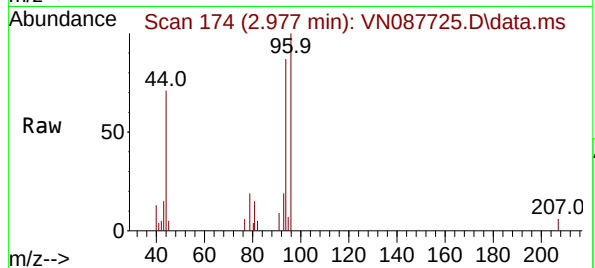






#5  
Bromomethane  
Concen: 5.656 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

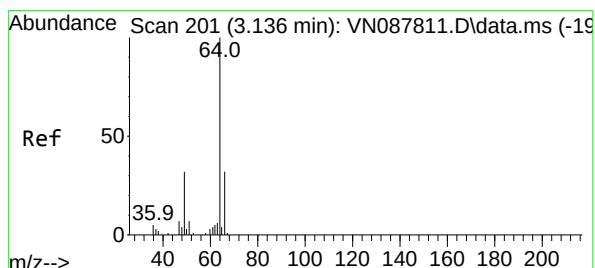
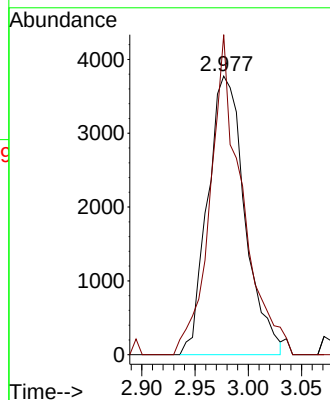
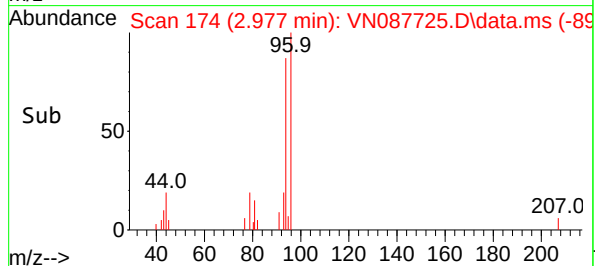
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 94 Resp: 9170  
Ion Ratio Lower Upper  
94 100  
96 109.4 72.2 108.4

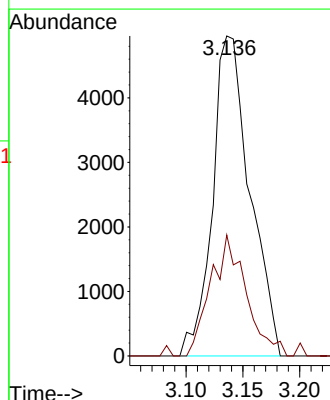
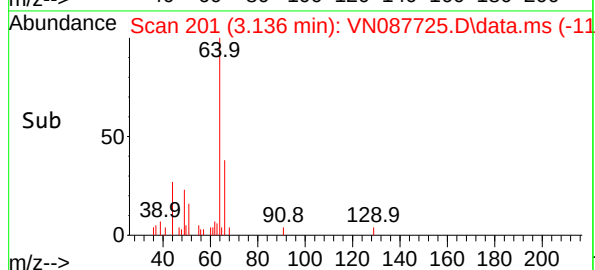
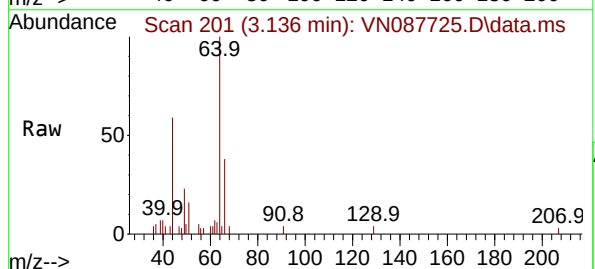
Manual Integrations  
APPROVED

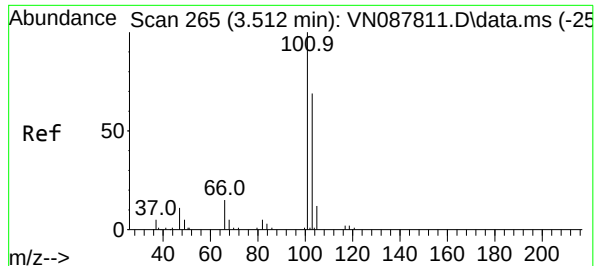
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 5.889 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 64 Resp: 11348  
Ion Ratio Lower Upper  
64 100  
66 37.8 32.8 49.2





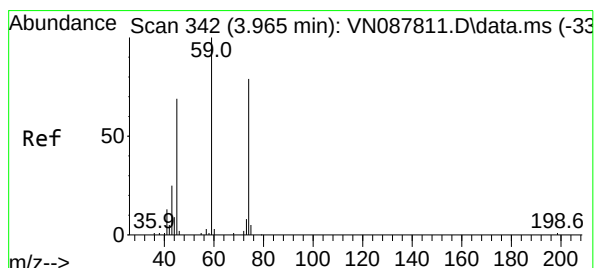
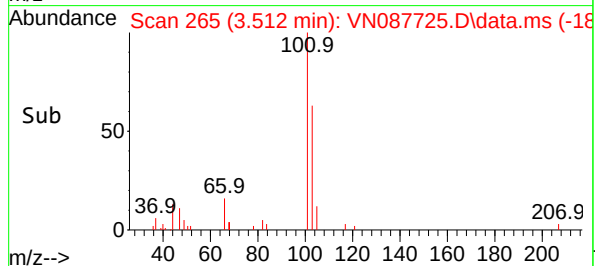
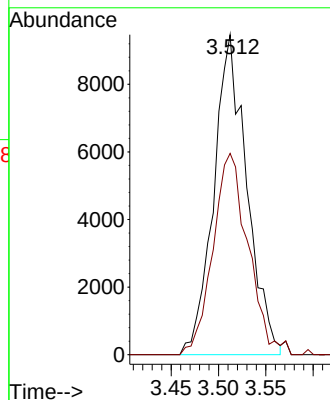
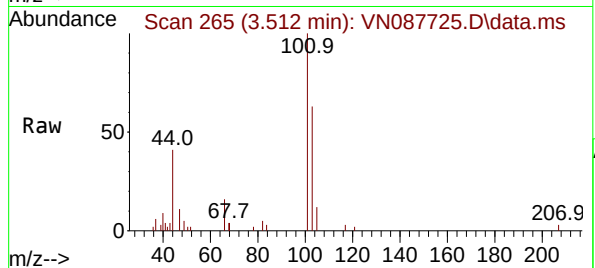
#7  
Trichlorofluoromethane  
Concen: 5.390 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 101 Resp: 2299  
Ion Ratio Lower Upper  
101 100  
103 62.9 45.7 68.5

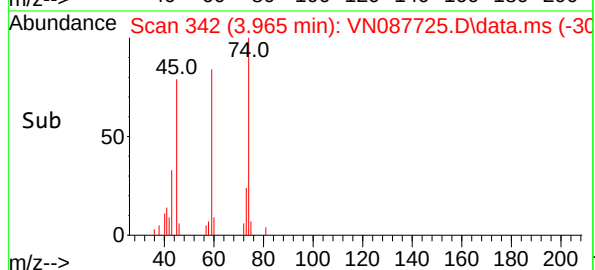
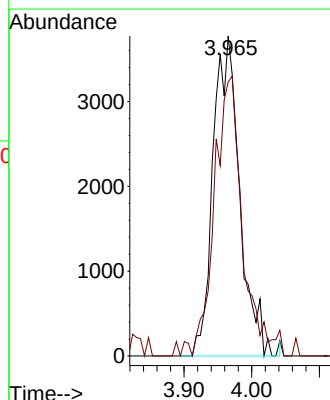
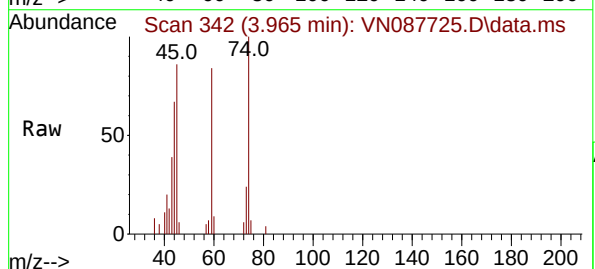
Manual Integrations  
APPROVED

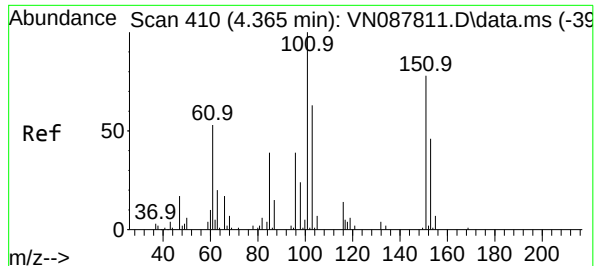
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 5.839 ug/l m  
RT: 3.965 min Scan# 342  
Delta R.T. 0.012 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 74 Resp: 10337  
Ion Ratio Lower Upper  
74 100  
45 88.9 20.4 183.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.679 ug/l m

RT: 4.371 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

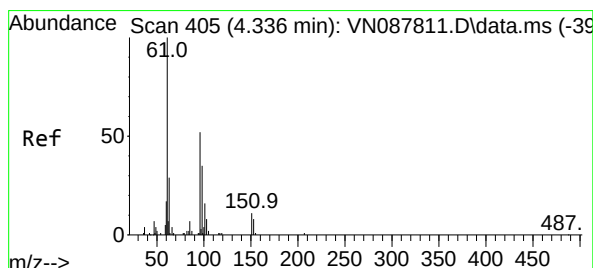
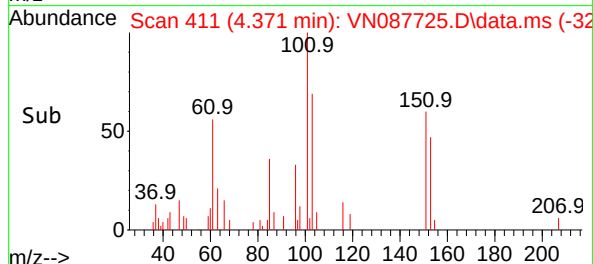
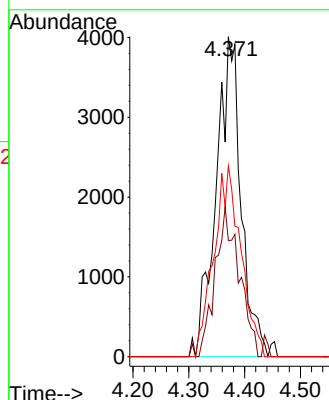
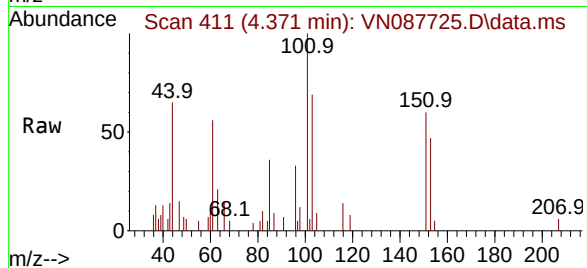
ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 1260  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 25.4  | 0.0   | 95.6  |
| 151      | 63.9  | 0.0   | 85.8  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 5.695 ug/l

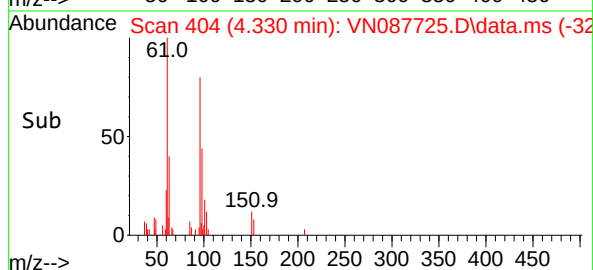
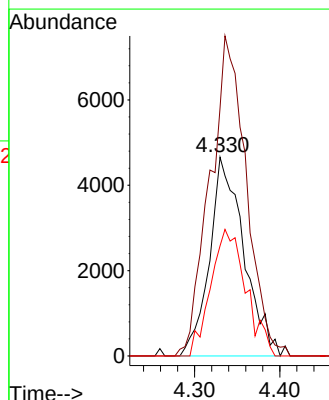
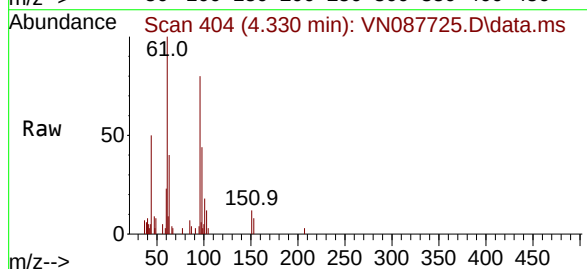
RT: 4.330 min Scan# 404

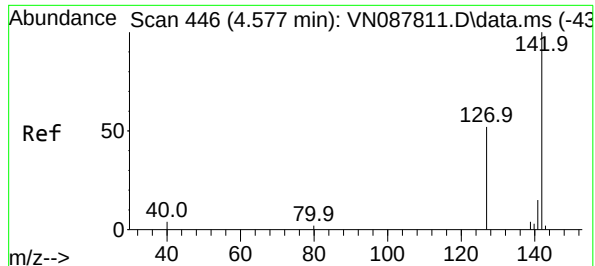
Delta R.T. -0.012 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

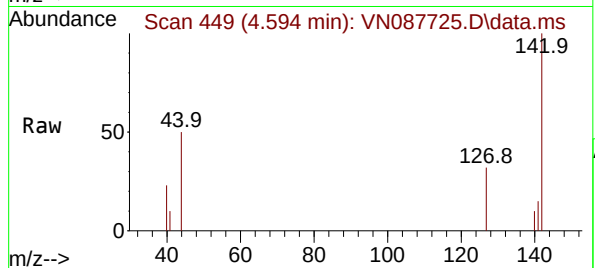
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 13028  |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 121.4 | 135.9 | 203.9# |
| 98       | 55.4  | 59.2  | 88.8#  |





#11  
Methyl Iodide  
Concen: 3.195 ug/l m  
RT: 4.594 min Scan# 446  
Delta R.T. 0.012 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

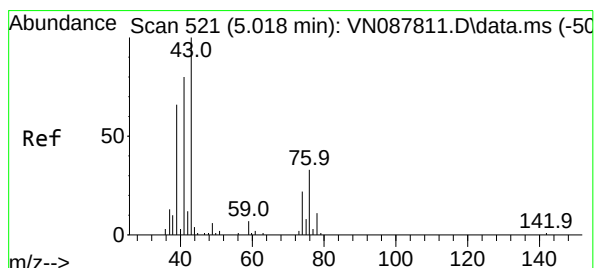
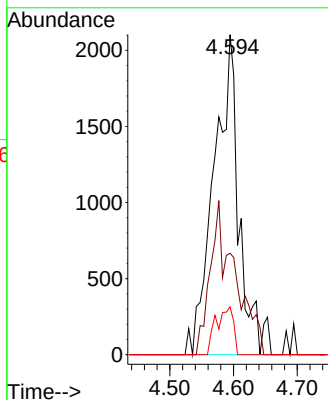
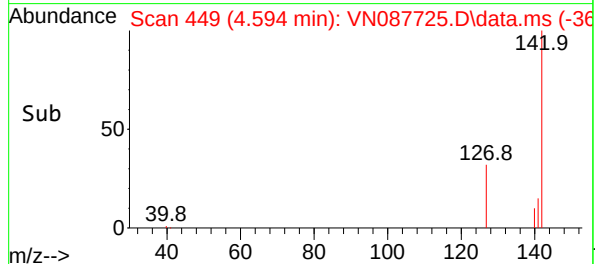
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:142 Resp: 5738  
Ion Ratio Lower Upper  
142 100  
127 31.7 27.9 83.7  
141 14.9 9.6 28.8

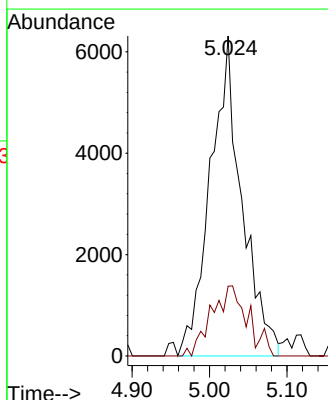
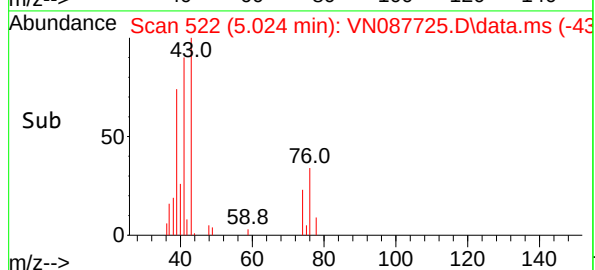
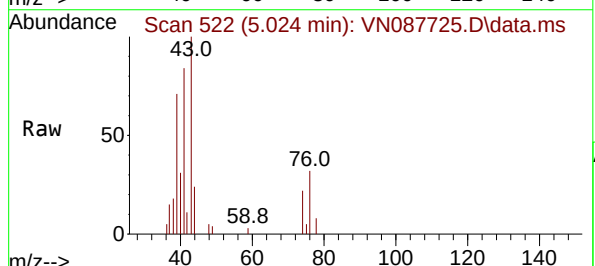
Manual Integrations  
APPROVED

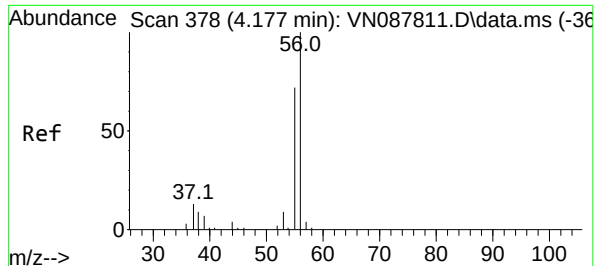
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#12  
Methyl Acetate  
Concen: 4.306 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 43 Resp: 17852  
Ion Ratio Lower Upper  
43 100  
74 22.2 17.5 26.3





#13

Acrolein

Concen: 28.610 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1854

Ion Ratio Lower Upper

56 100

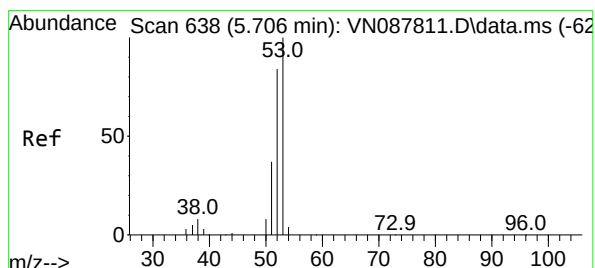
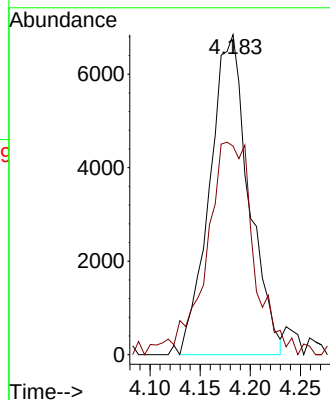
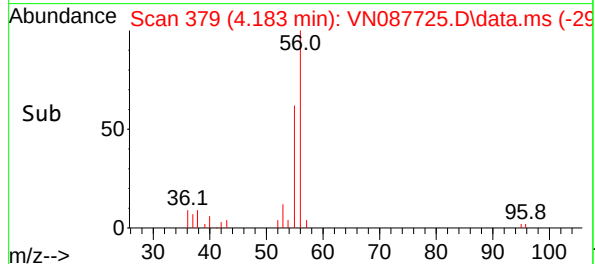
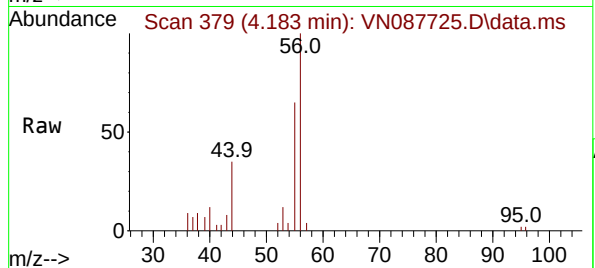
55 54.7 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 23.088 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

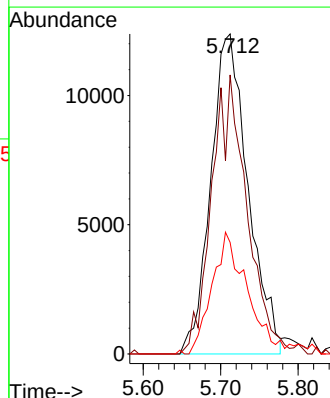
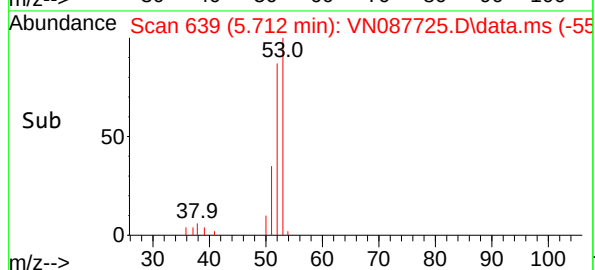
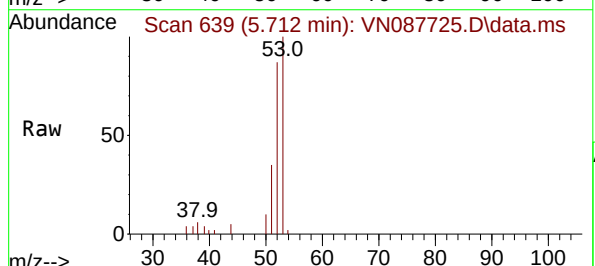
Tgt Ion: 53 Resp: 41406

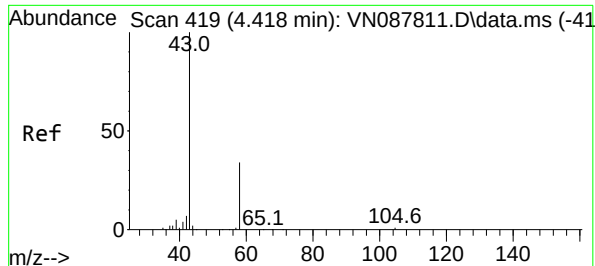
Ion Ratio Lower Upper

53 100

52 45.8 40.9 122.7

51 24.9 18.1 54.1





#15

Acetone

Concen: 33.931 ug/l m

RT: 4.418 min Scan# 41

Delta R.T. -0.012 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 58 Resp: 1726

Ion Ratio Lower Upper

58 100

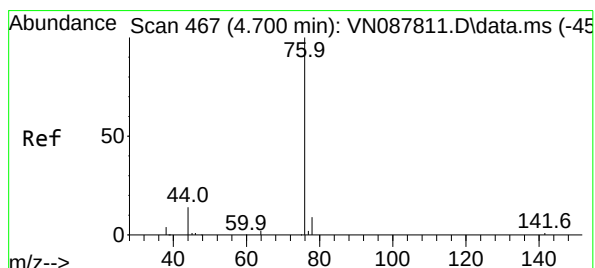
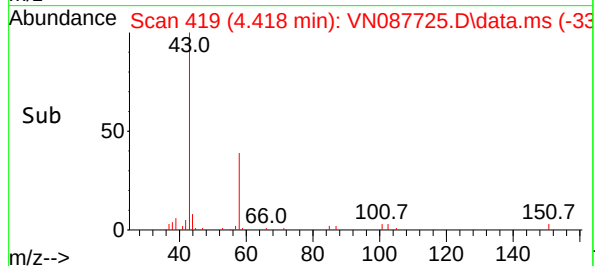
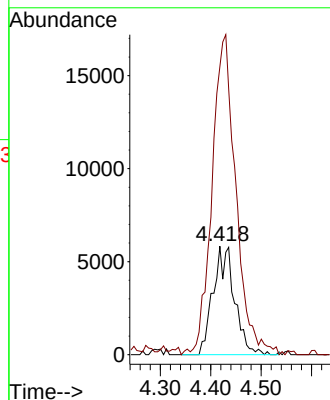
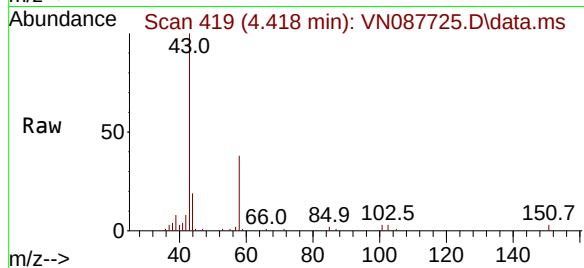
43 265.7 250.6 376.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#16

Carbon Disulfide

Concen: 5.033 ug/l

RT: 4.694 min Scan# 466

Delta R.T. -0.012 min

Lab File: VN087725.D

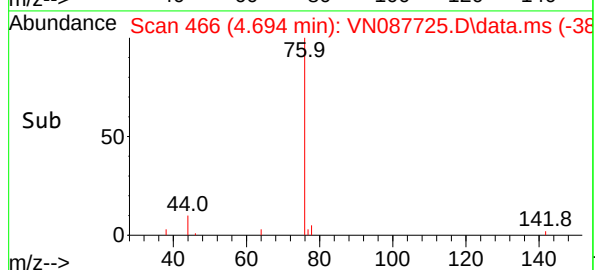
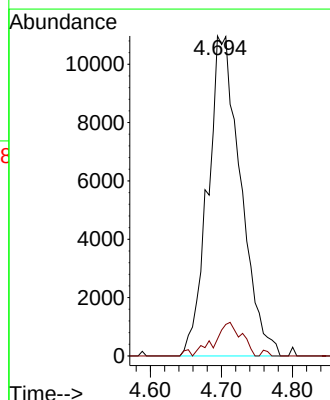
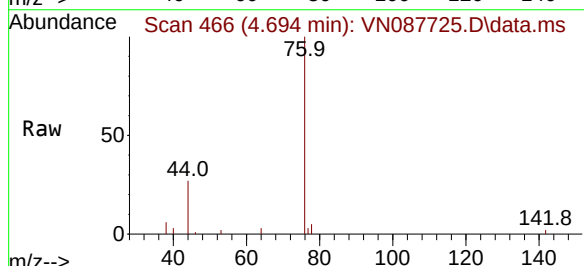
Acq: 04 Sep 2025 16:23

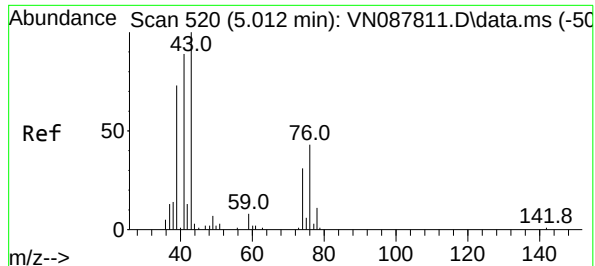
Tgt Ion: 76 Resp: 35228

Ion Ratio Lower Upper

76 100

78 5.3 5.0 7.6





#17

Allyl chloride

Concen: 4.722 ug/l m

RT: 5.012 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

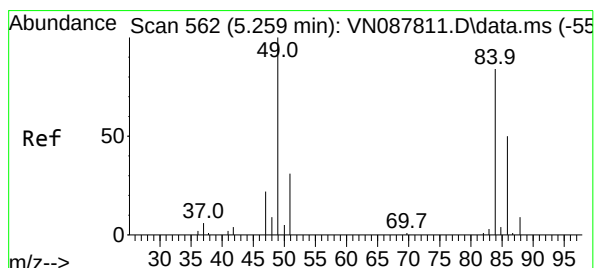
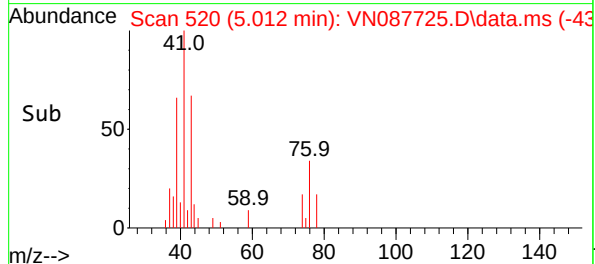
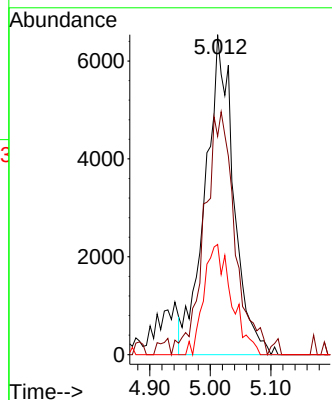
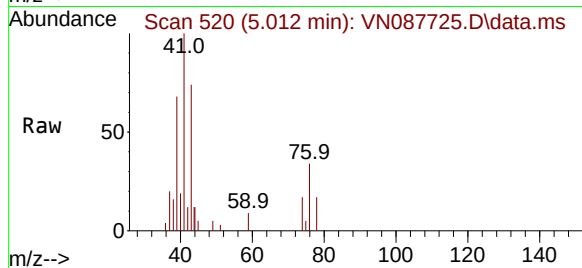
VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 21319 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 68.2  | 36.7  | 110.1 |
| 76       | 34.5  | 18.3  | 54.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 5.346 ug/l

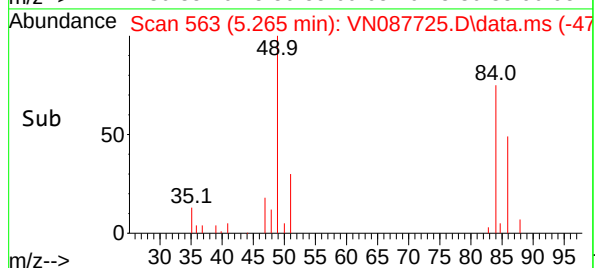
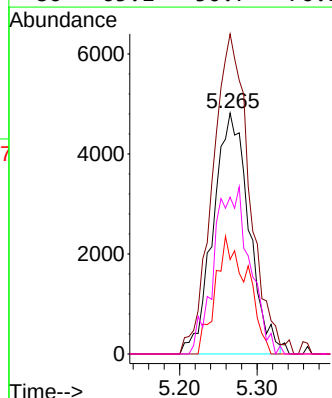
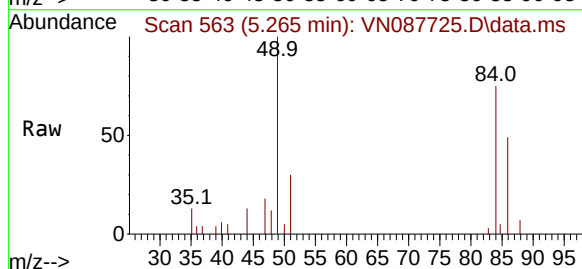
RT: 5.265 min Scan# 563

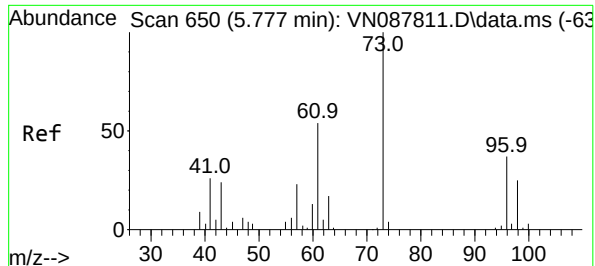
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 15429 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 132.9 | 114.1 | 171.1 |
| 51       | 39.2  | 30.2  | 45.4  |
| 86       | 65.1  | 50.7  | 76.1  |





#19

trans-1,2-Dichloroethene

Concen: 4.541 ug/l m

RT: 5.771 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 1212

Ion Ratio Lower Upper

96 100

61 136.0 106.4 159.6

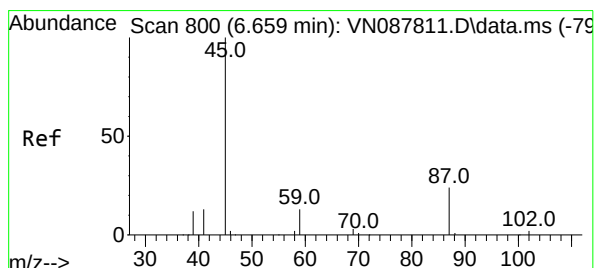
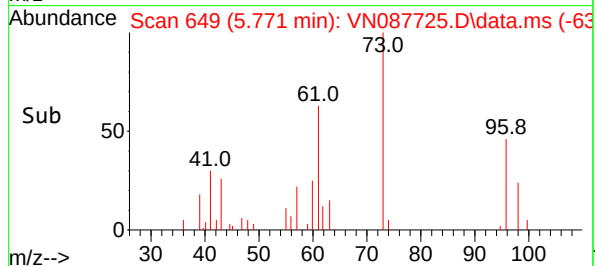
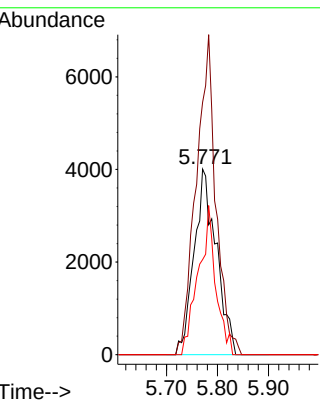
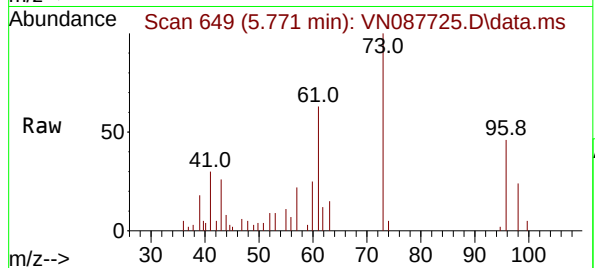
98 51.3 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 4.193 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Tgt Ion: 45 Resp: 43135

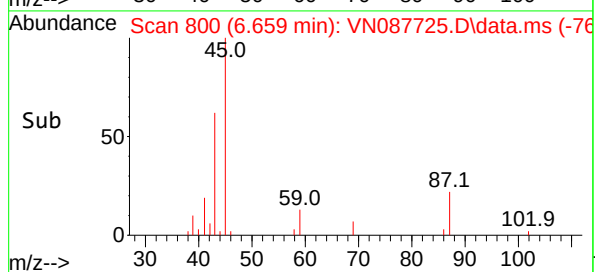
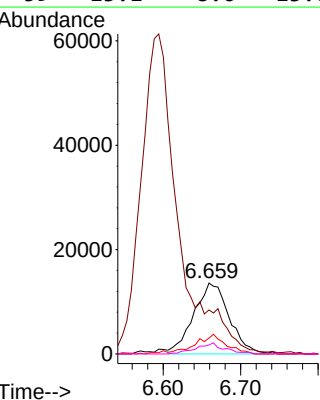
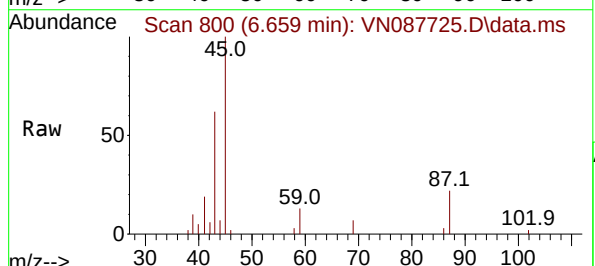
Ion Ratio Lower Upper

45 100

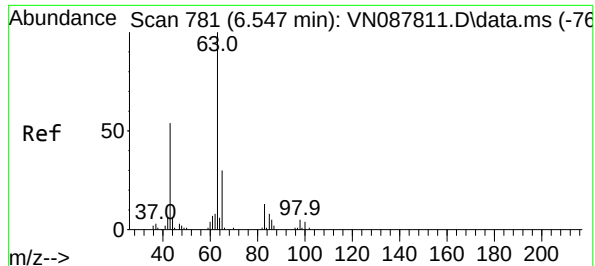
43 60.1 49.5 74.3

87 22.6 18.8 28.2

59 13.1 8.6 13.0#







#21

1,1-Dichloroethane

Concen: 4.973 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

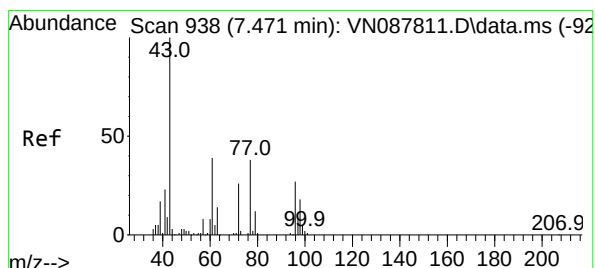
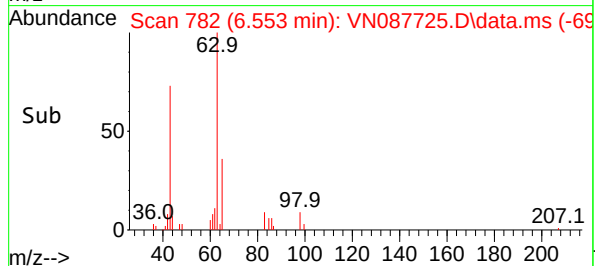
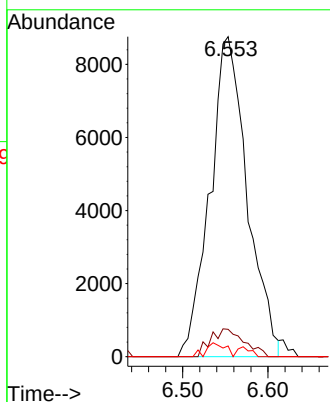
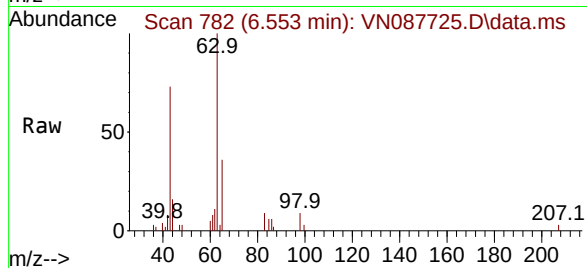
ClientSampleId :

VSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2660  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 8.5   | 2.9   | 8.8   |
| 100      | 3.3   | 1.8   | 5.3   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 4.514 ug/l

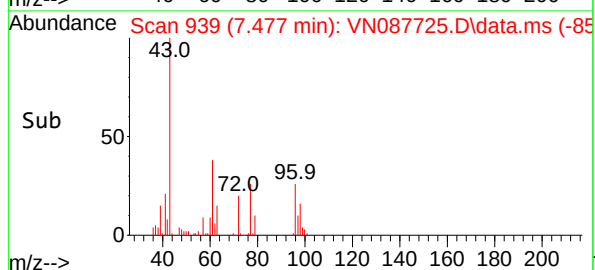
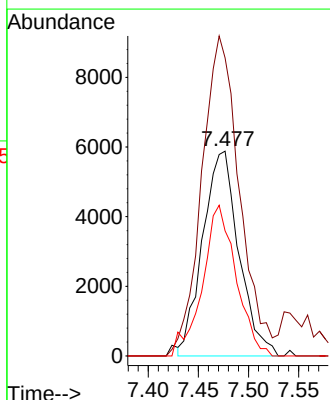
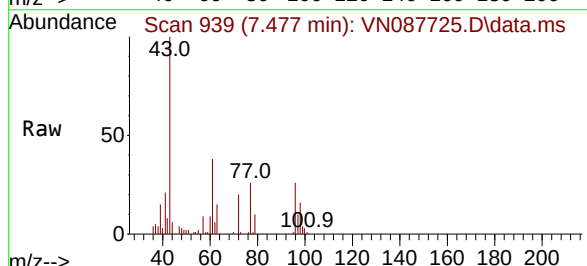
RT: 7.477 min Scan# 939

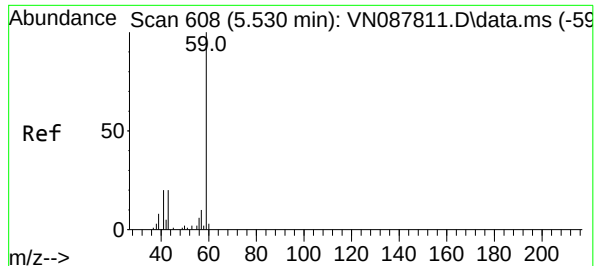
Delta R.T. 0.012 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 14747 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 162.9 | 118.2 | 177.2 |
| 98       | 65.6  | 51.6  | 77.4  |





#23

tert-Butyl Alcohol

Concen: 20.107 ug/l m

RT: 5.524 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 14989

Ion Ratio Lower Upper

59 100

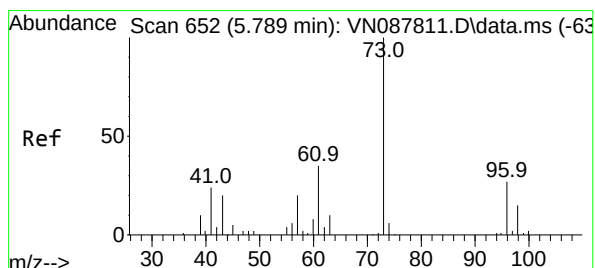
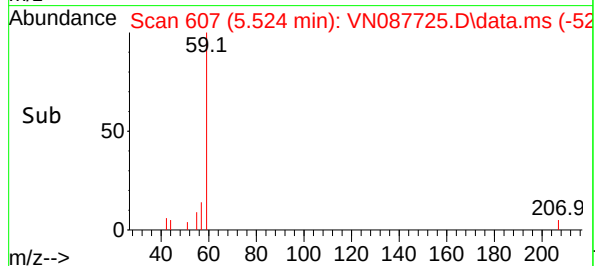
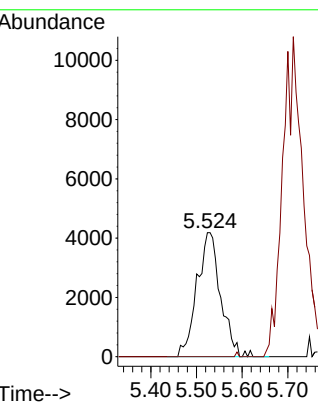
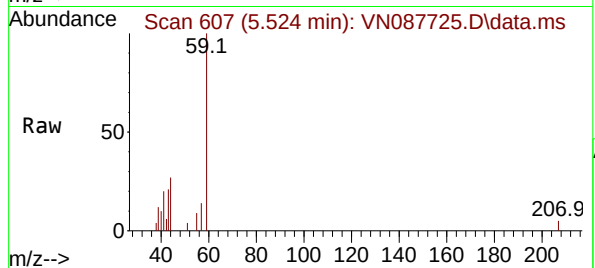
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#24

Methyl tert-Butyl Ether

Concen: 4.097 ug/l m

RT: 5.777 min Scan# 650

Delta R.T. -0.012 min

Lab File: VN087725.D

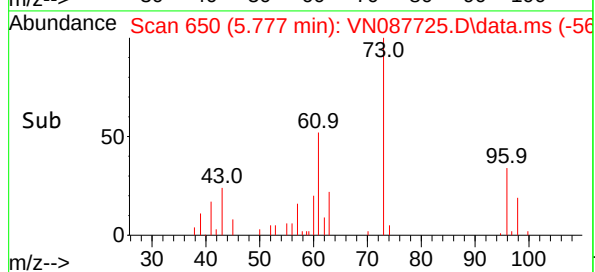
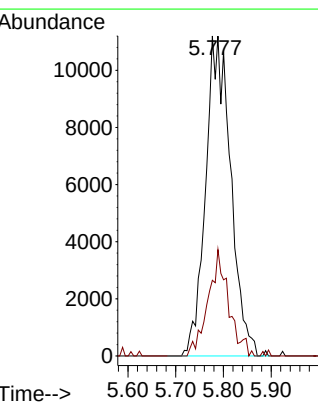
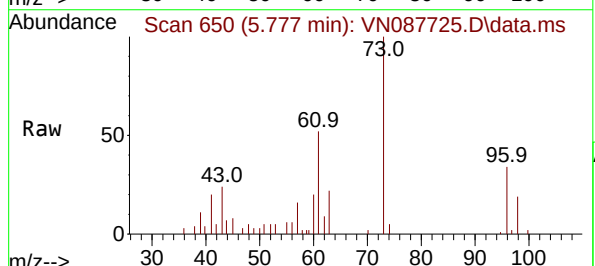
Acq: 04 Sep 2025 16:23

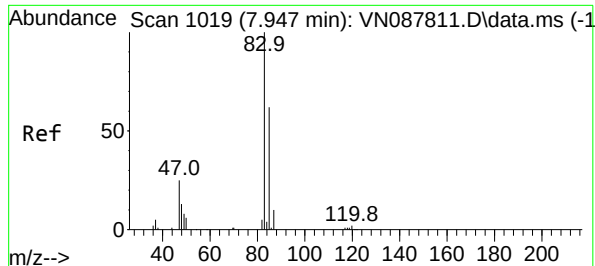
Tgt Ion: 73 Resp: 41065

Ion Ratio Lower Upper

73 100

43 16.3 16.8 25.2#





#25

Chloroform

Concen: 4.769 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 83 Resp: 2685

Ion Ratio Lower Upper

83 100

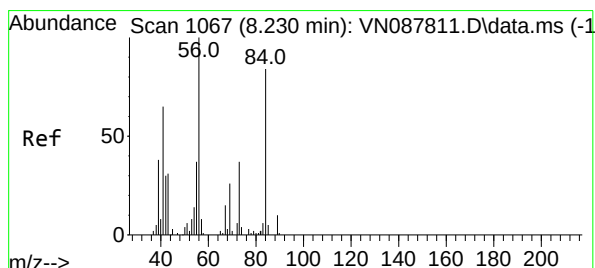
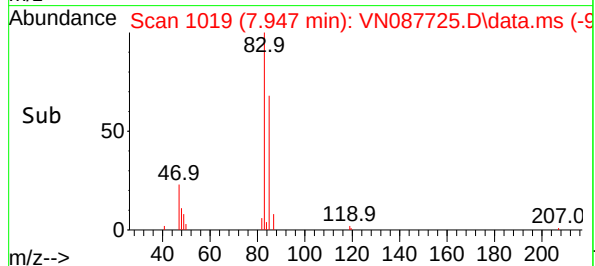
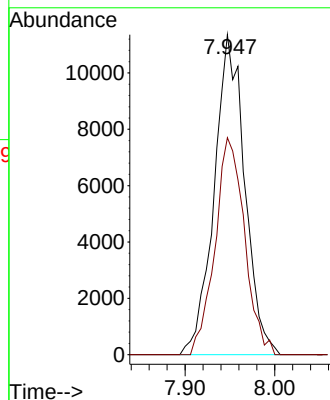
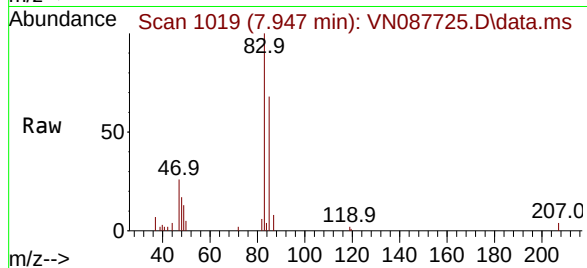
85 67.8 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 4.308 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

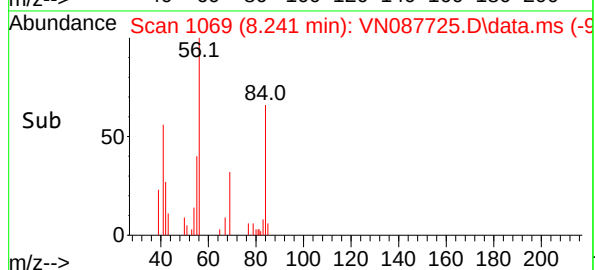
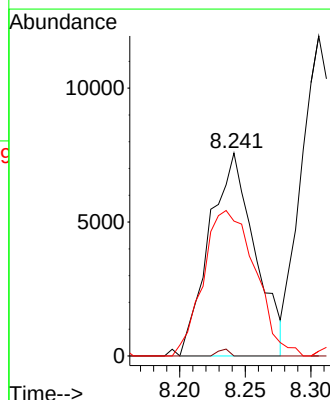
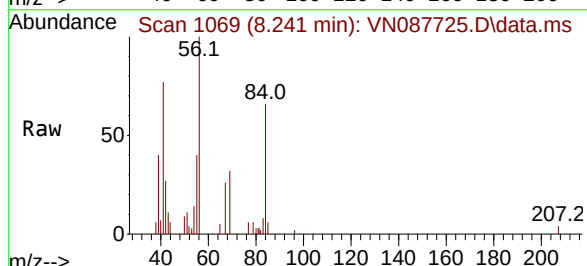
Tgt Ion: 56 Resp: 18224

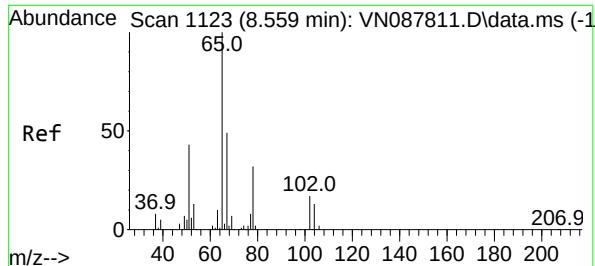
Ion Ratio Lower Upper

56 100

89 0.9 0.0 0.0#

84 82.1 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 29.081 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 11148

Ion Ratio Lower Upper

65 100

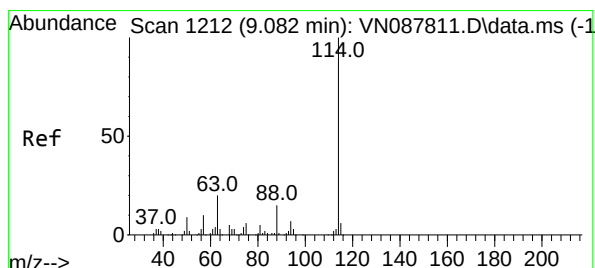
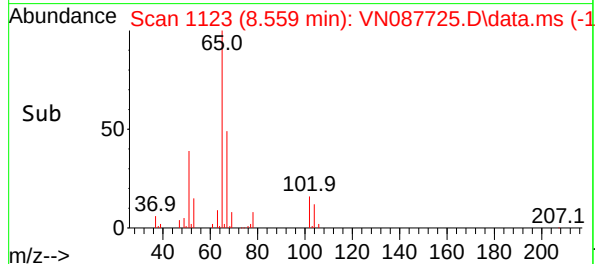
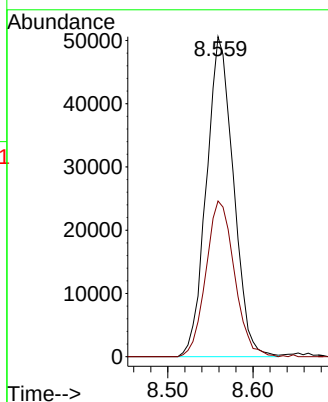
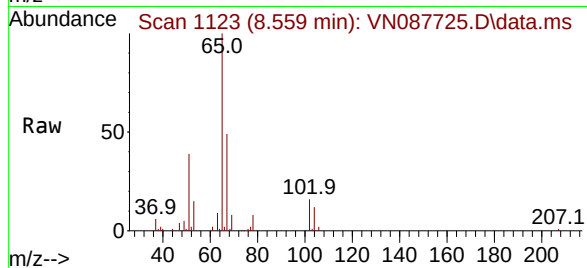
67 51.4 39.6 59.4

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: VN087725.D

Acq: 04 Sep 2025 16:23

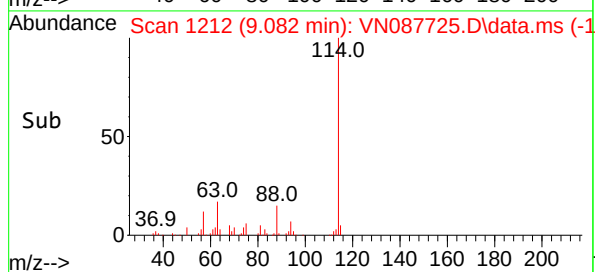
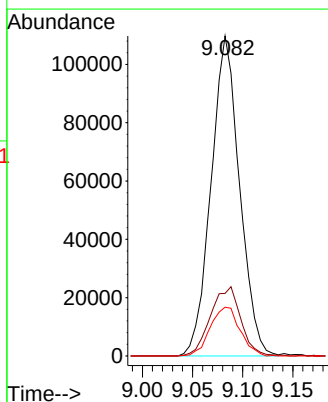
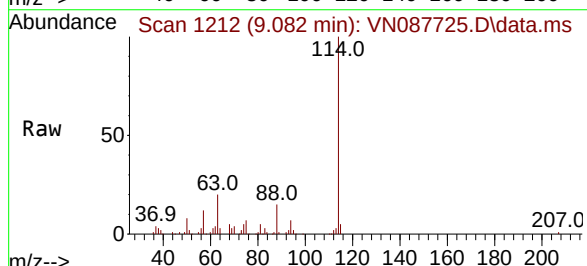
Tgt Ion:114 Resp: 216859

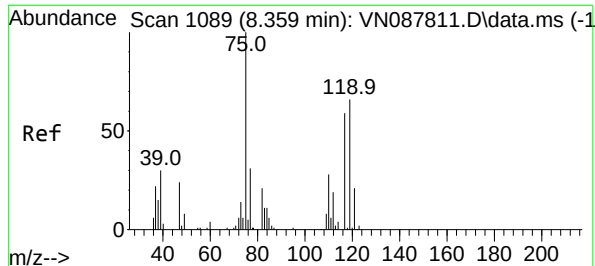
Ion Ratio Lower Upper

114 100

63 22.9 18.3 27.5

88 15.9 12.4 18.6





#29

1,1-Dichloropropene

Concen: 4.808 ug/l

RT: 8.347 min Scan# 1087

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

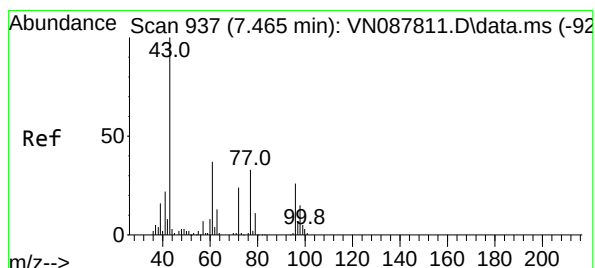
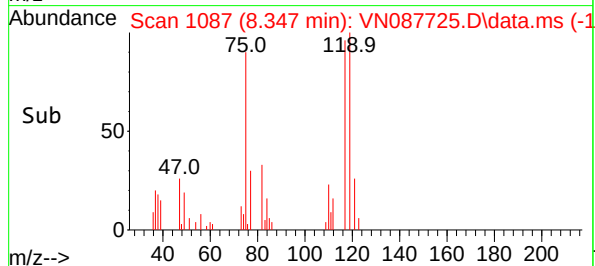
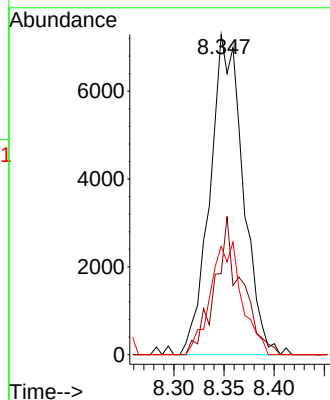
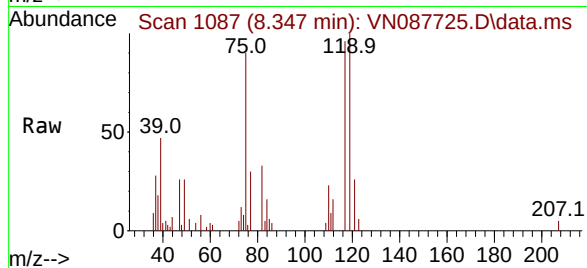
ClientSampleId :

VSTDIC005

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 16714 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 22.6    | 0.0 64.4    |
| 77 19.5     | 0.0 62.2    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 24.948 ug/l

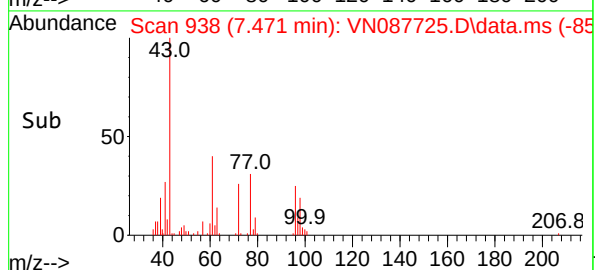
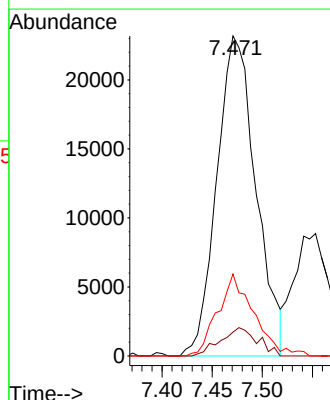
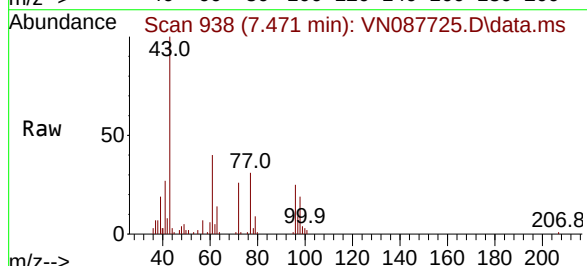
RT: 7.471 min Scan# 938

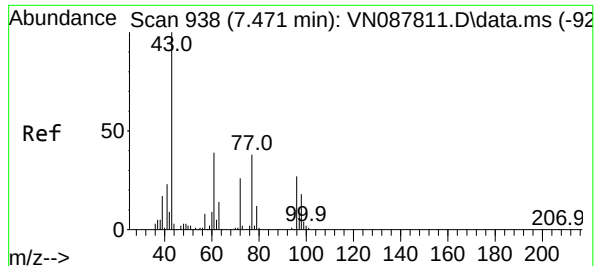
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 62809 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 57 7.1      | 6.3 9.5     |
| 72 22.8     | 21.4 32.2   |





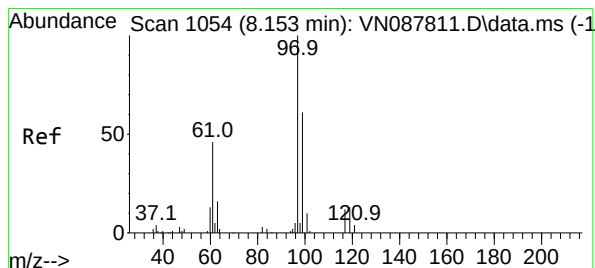
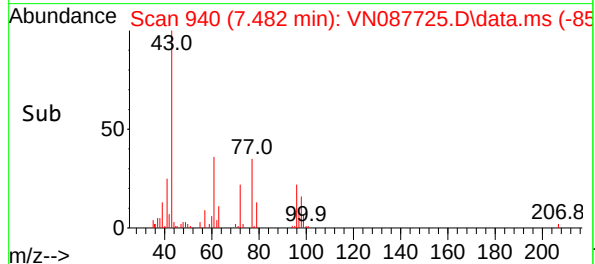
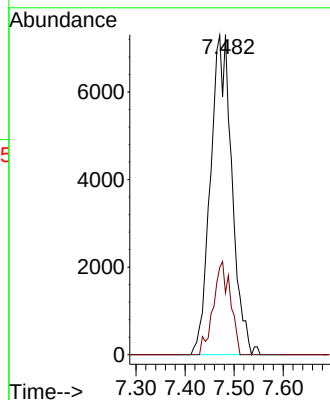
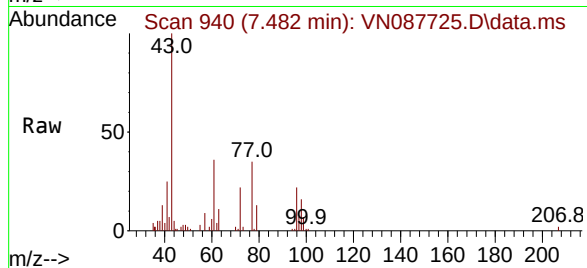
#31  
2,2-Dichloropropane  
Concen: 5.085 ug/l m  
RT: 7.482 min Scan# 94  
Delta R.T. 0.012 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 77 Resp: 2214  
Ion Ratio Lower Upper  
77 100  
97 22.0 17.1 25.7

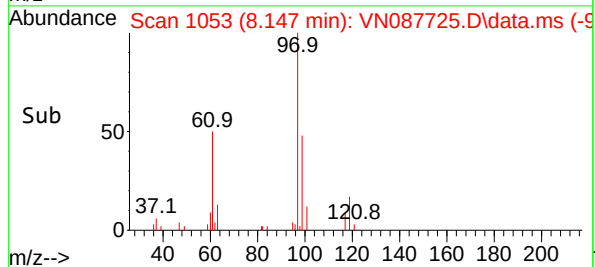
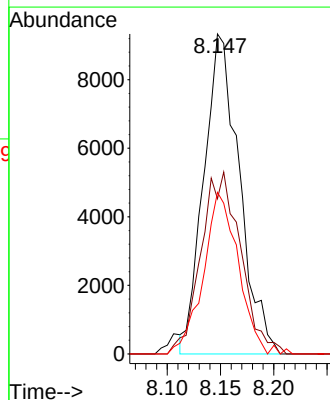
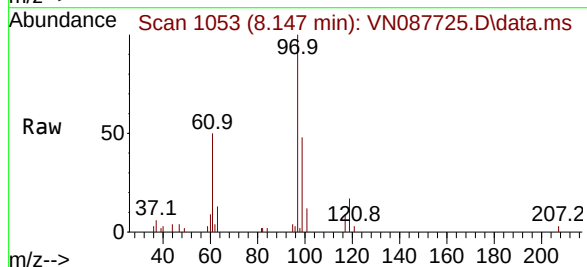
Manual Integrations  
APPROVED

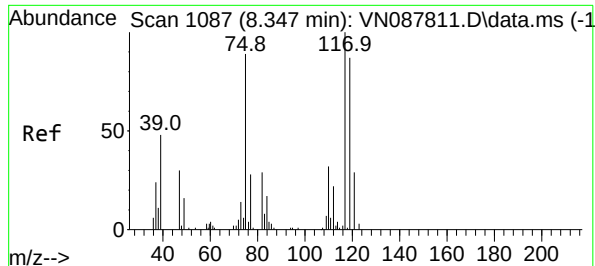
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#32  
1,1,1-Trichloroethane  
Concen: 4.859 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

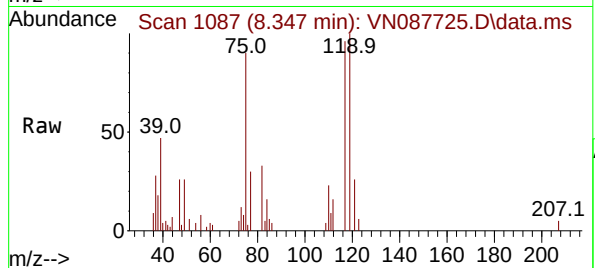
Tgt Ion: 97 Resp: 21664  
Ion Ratio Lower Upper  
97 100  
99 63.3 52.2 78.4  
61 49.2 37.9 56.9





#33  
Carbon Tetrachloride  
Concen: 5.178 ug/l  
RT: 8.347 min Scan# 1087  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

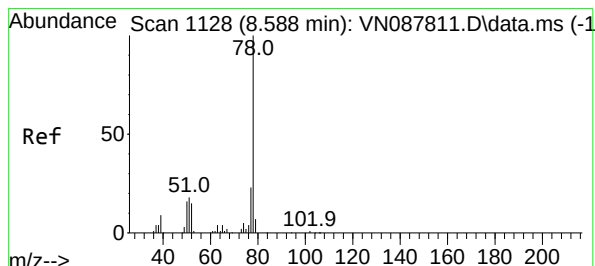
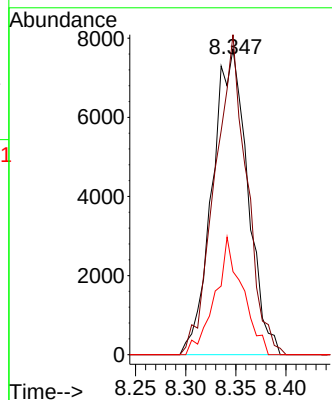
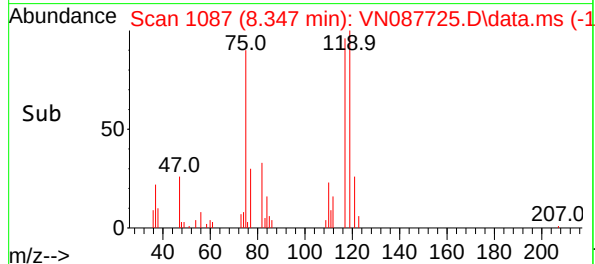
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 117 Resp: 1899  
Ion Ratio Lower Upper  
117 100  
119 104.6 77.3 115.9  
121 27.2 26.6 39.8

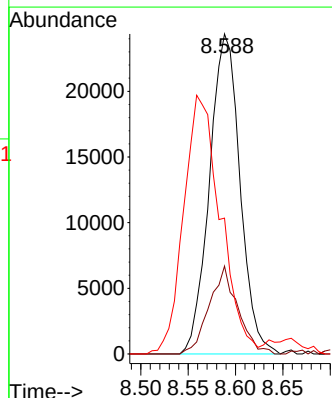
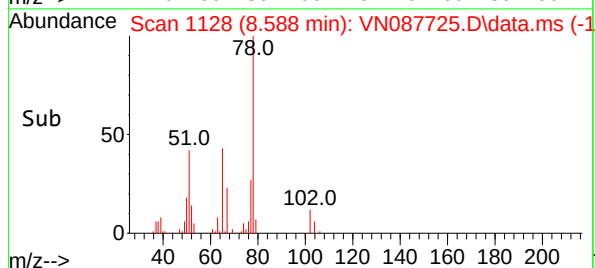
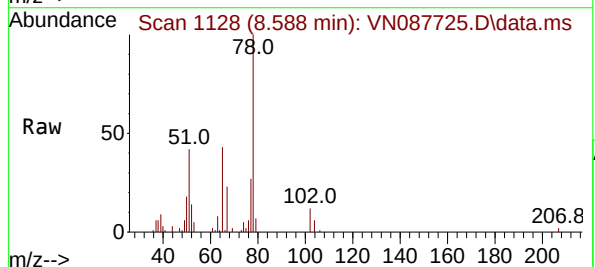
Manual Integrations  
APPROVED

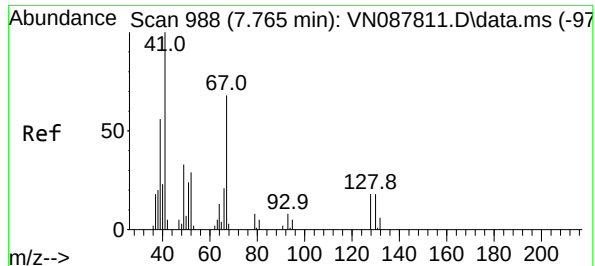
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 4.965 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 78 Resp: 54727  
Ion Ratio Lower Upper  
78 100  
77 27.4 20.3 30.5  
51 38.7 18.0 27.0#





#35

Methacrylonitrile

Concen: 4.140 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 1132

Ion Ratio Lower Upper

41 100

39 36.2 27.1 81.2

67 79.7 32.1 96.5

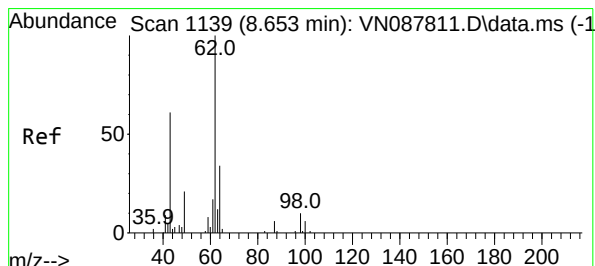
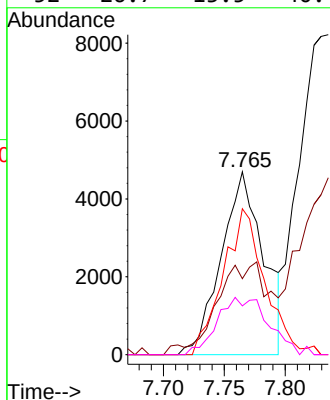
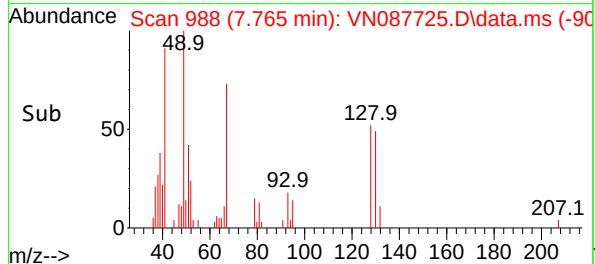
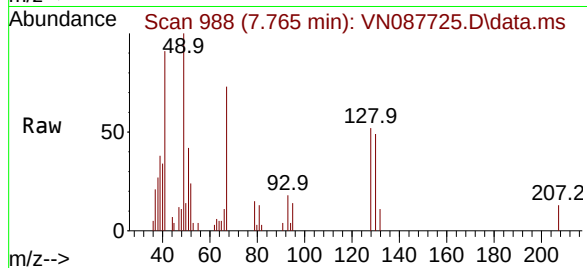
52 26.7 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 4.893 ug/l

RT: 8.647 min Scan# 1138

Delta R.T. -0.006 min

Lab File: VN087725.D

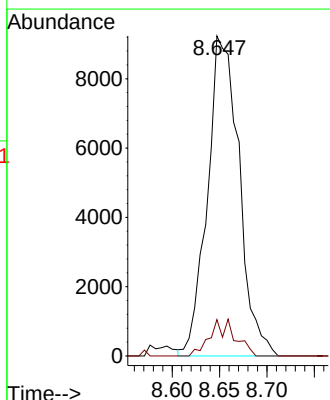
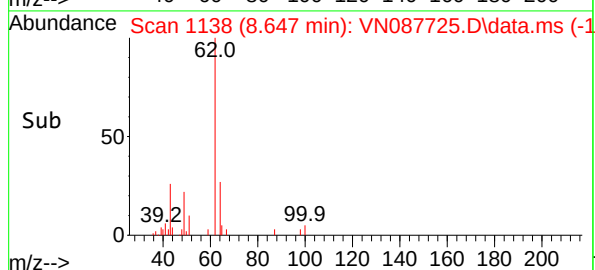
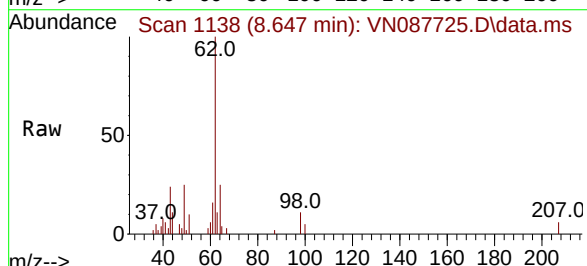
Acq: 04 Sep 2025 16:23

Tgt Ion: 62 Resp: 21499

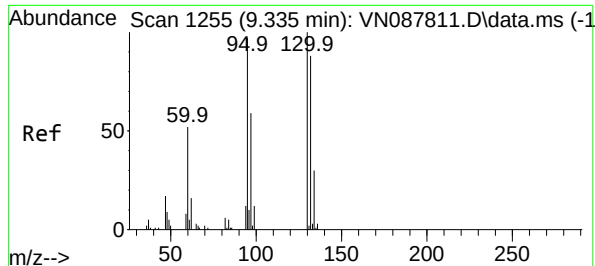
Ion Ratio Lower Upper

62 100

98 4.8 7.2 10.8#







#37

Trichloroethene

Concen: 5.242 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 12724

Ion Ratio Lower Upper

130 100

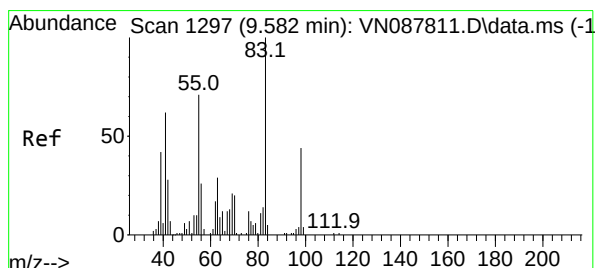
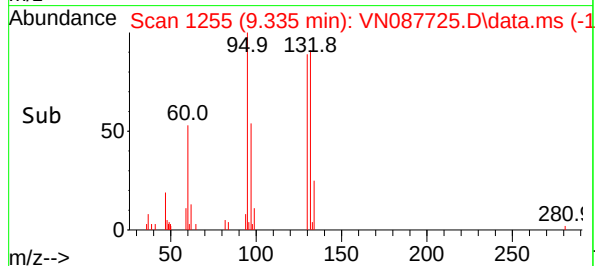
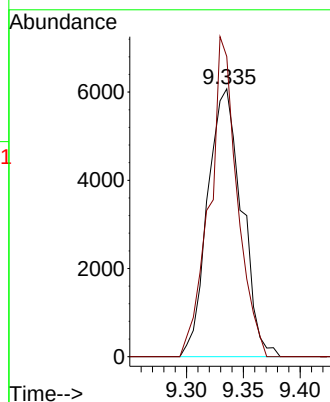
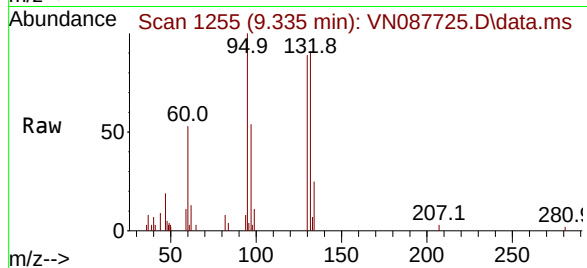
95 112.1 82.7 124.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#38

Methylcyclohexane

Concen: 4.768 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

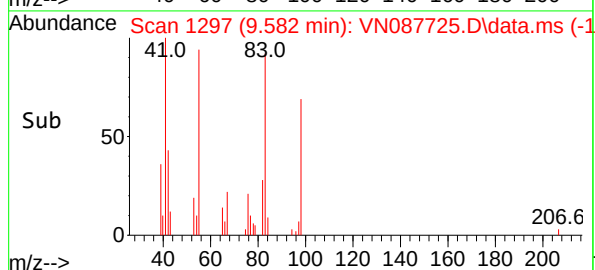
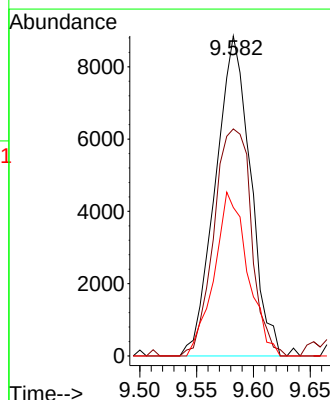
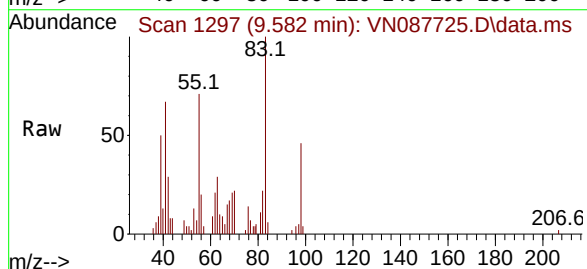
Tgt Ion: 83 Resp: 18908

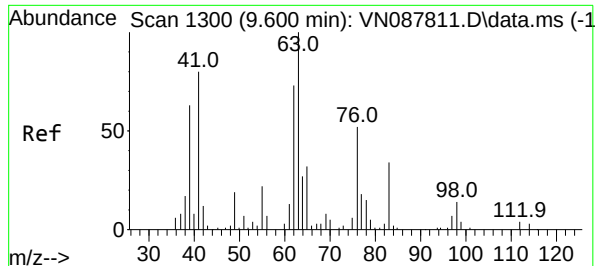
Ion Ratio Lower Upper

83 100

55 76.1 40.4 121.1

98 49.3 24.0 72.0





#39

1,2-Dichloropropane

Concen: 5.045 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 14250

Ion Ratio Lower Upper

63 100

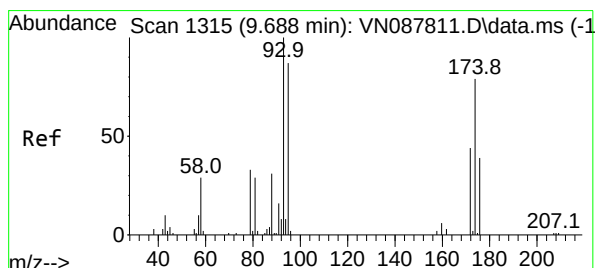
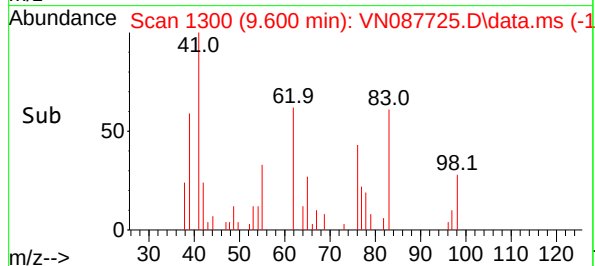
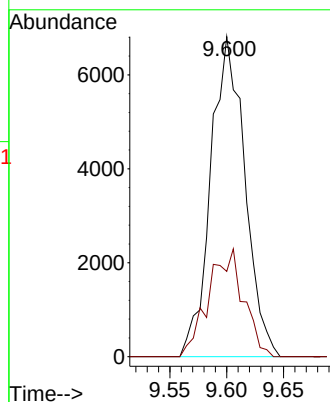
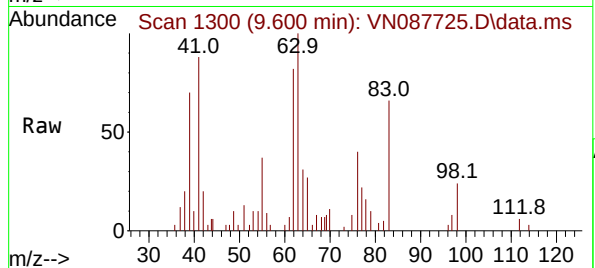
65 26.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 5.143 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

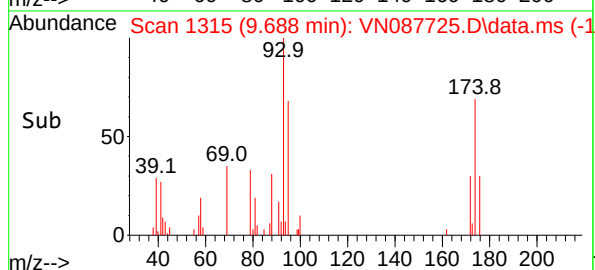
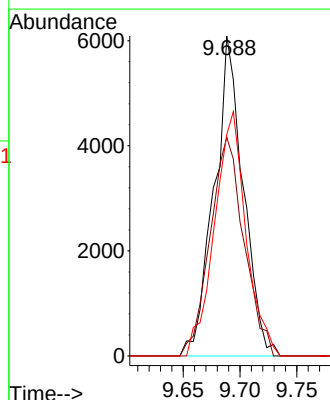
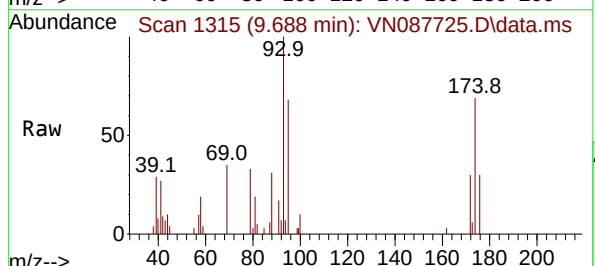
Tgt Ion: 93 Resp: 10862

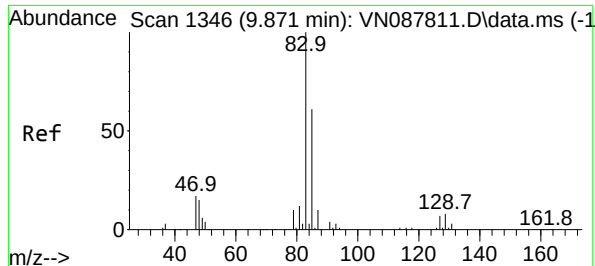
Ion Ratio Lower Upper

93 100

95 79.4 0.0 168.4

174 82.3 0.0 162.8





#41

Bromodichloromethane

Concen: 5.018 ug/l

RT: 9.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

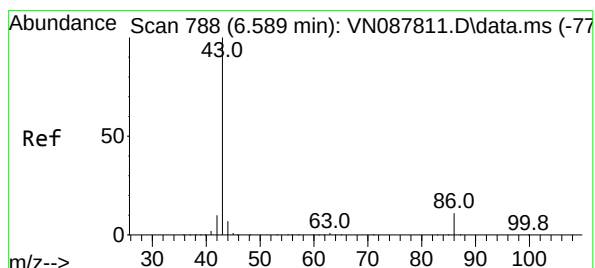
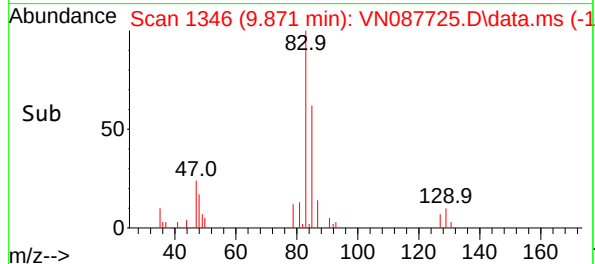
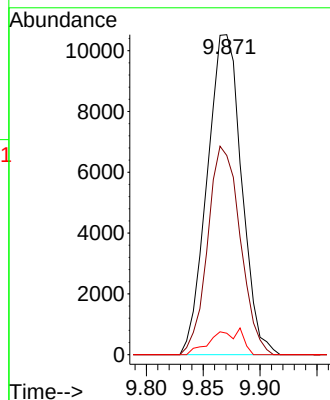
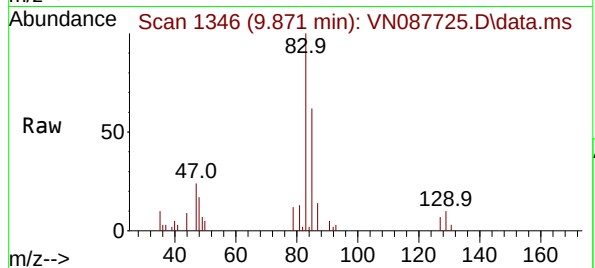
VSTDICC005

| Tgt Ion: | 83    | Resp: | 2213  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 62.3  | 47.3  | 70.9  |
| 127      | 6.7   | 5.2   | 7.8   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42

Vinyl Acetate

Concen: 22.588 ug/l

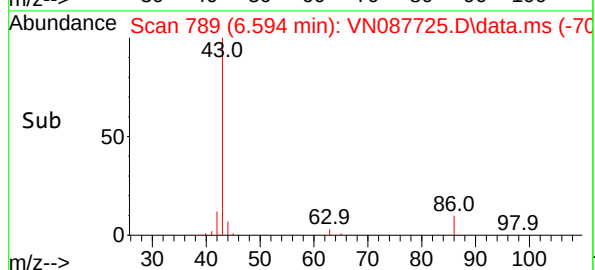
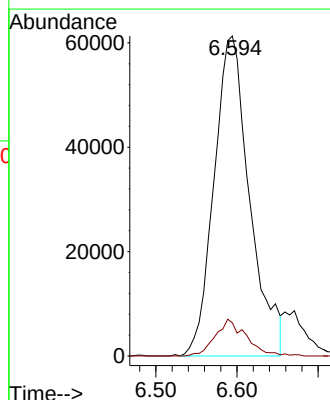
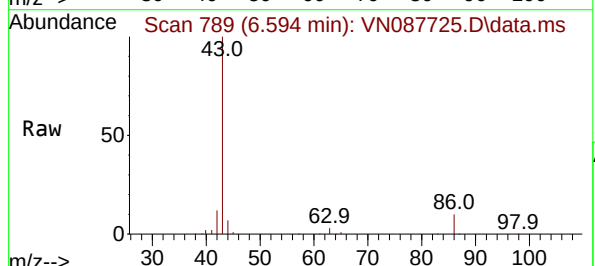
RT: 6.594 min Scan# 789

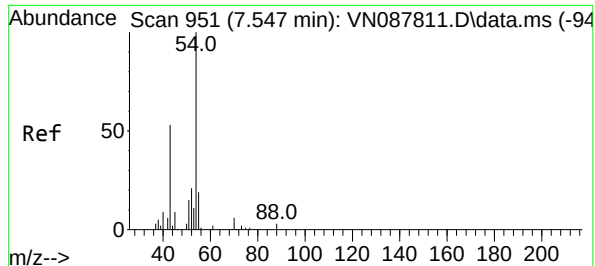
Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

| Tgt Ion: | 43    | Resp: | 187082 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 6.7   | 7.7   | 11.5#  |





#43

Ethyl Acetate

Concen: 4.902 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 2432

Ion Ratio Lower Upper

43 100

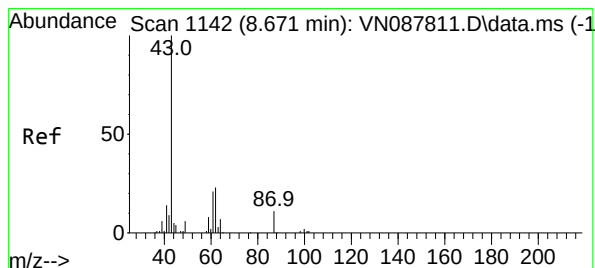
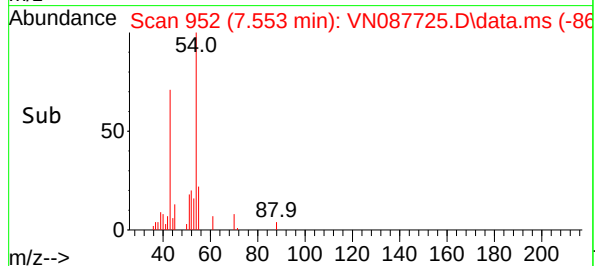
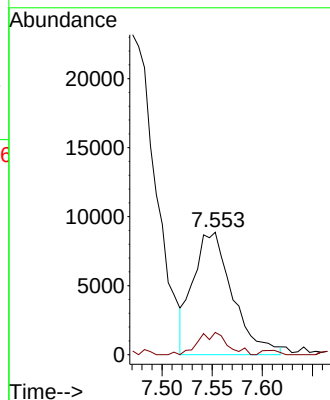
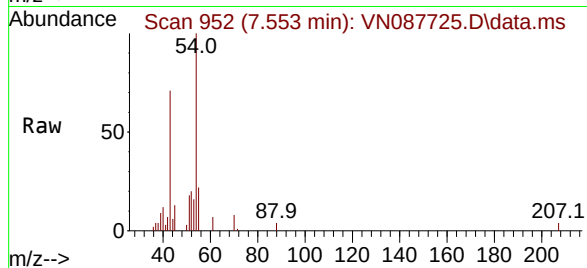
45 12.3 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 4.192 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087725.D

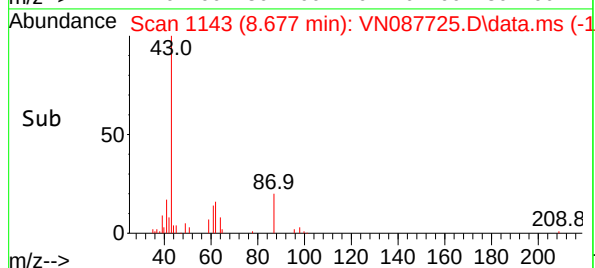
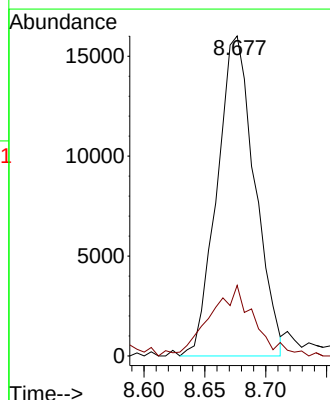
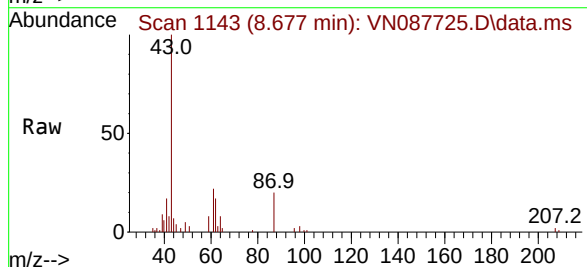
Acq: 04 Sep 2025 16:23

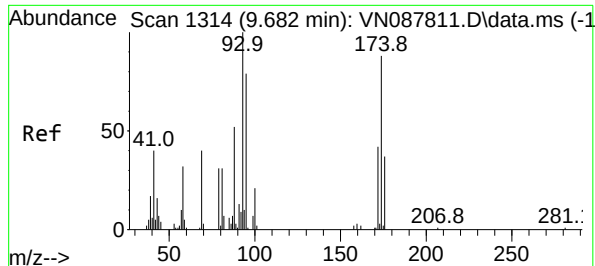
Tgt Ion: 43 Resp: 34598

Ion Ratio Lower Upper

43 100

61 10.9 19.5 29.3#





#45

1,4-Dioxane

Concen: 82.302 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.012 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

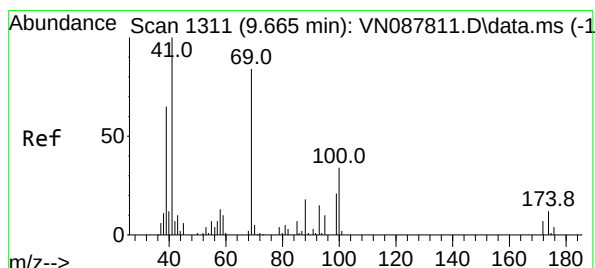
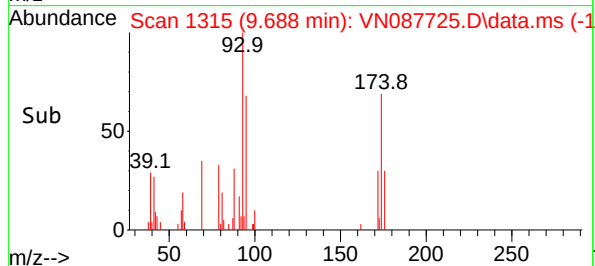
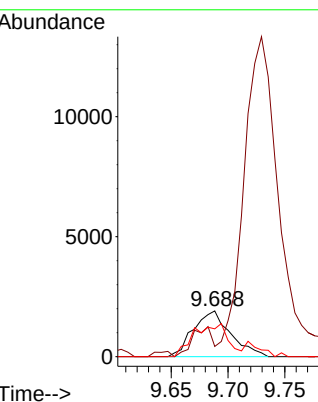
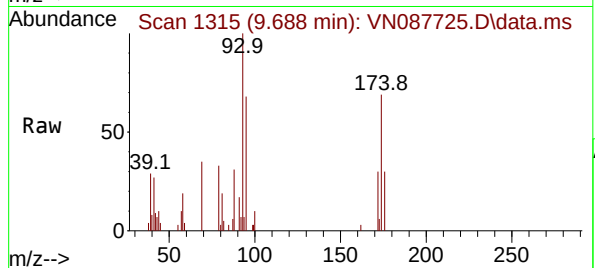
VSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 4349  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 34.6  | 23.6  | 35.4  |
| 58       | 21.3  | 60.5  | 90.7  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 4.275 ug/l m

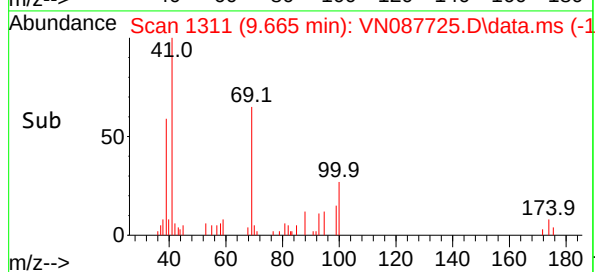
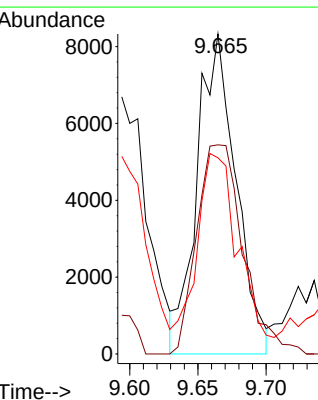
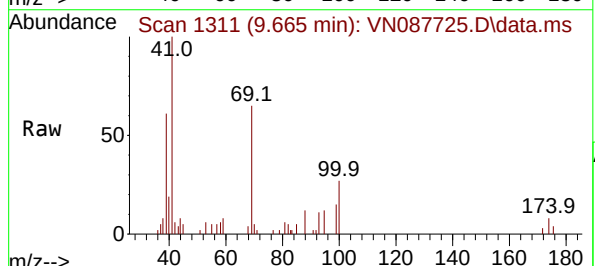
RT: 9.665 min Scan# 1311

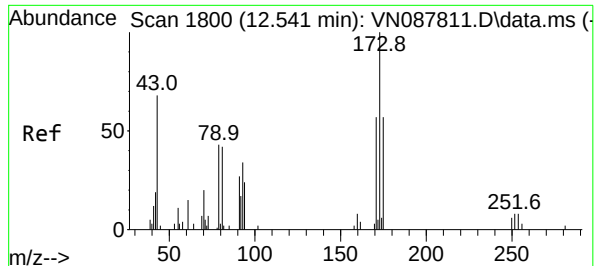
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 16516 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 65.4  | 40.3  | 120.9 |
| 39       | 61.3  | 31.9  | 95.9  |





#47

n-amy1 Acetate

Concen: 5.631 ug/l m

RT: 12.900 min Scan# 1800

Delta R.T. 0.229 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 2702

Ion Ratio Lower Upper

43 100

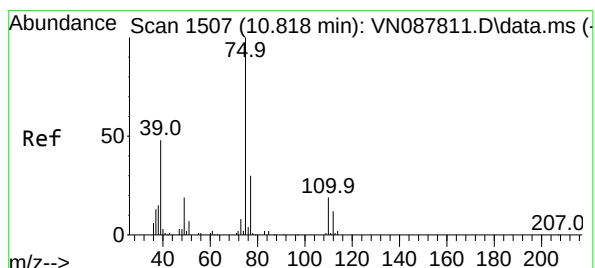
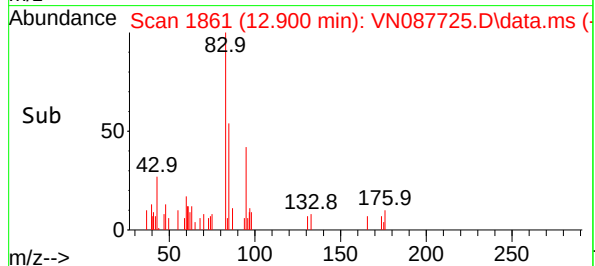
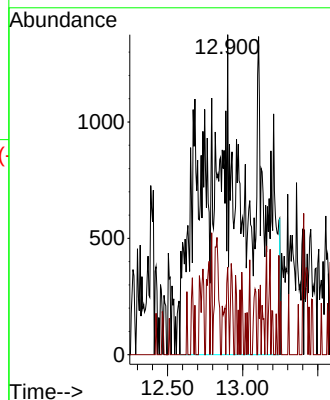
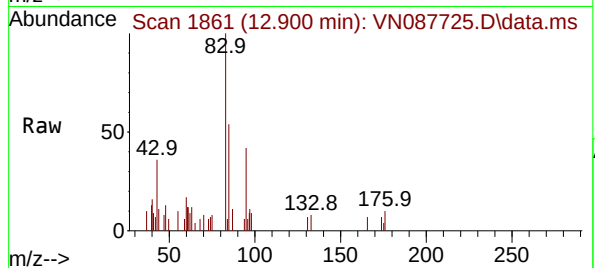
55 0.3 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 4.564 ug/l

RT: 10.812 min Scan# 1506

Delta R.T. -0.006 min

Lab File: VN087725.D

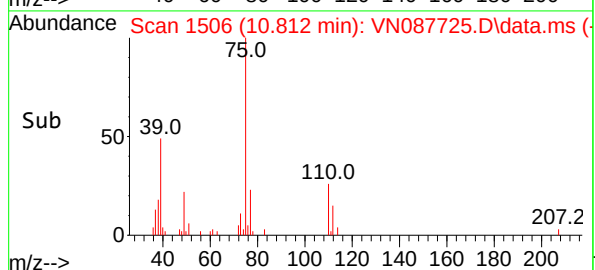
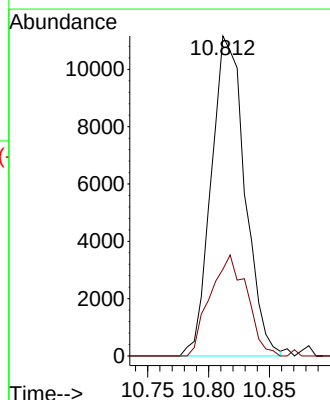
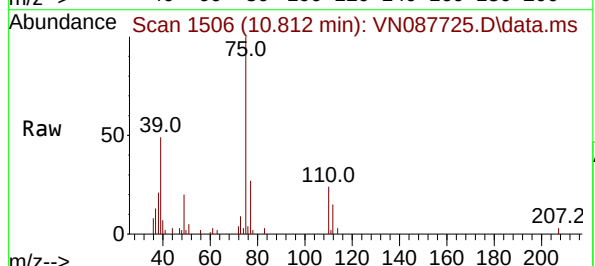
Acq: 04 Sep 2025 16:23

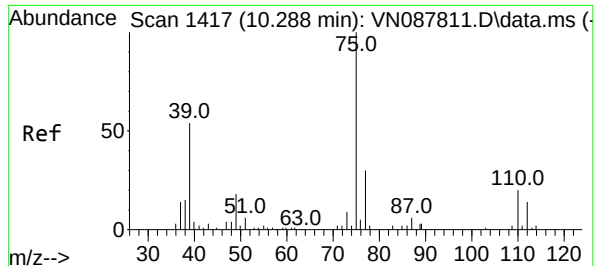
Tgt Ion: 75 Resp: 21459

Ion Ratio Lower Upper

75 100

77 27.1 24.7 37.1





#49

cis-1,3-Dichloropropene

Concen: 4.623 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

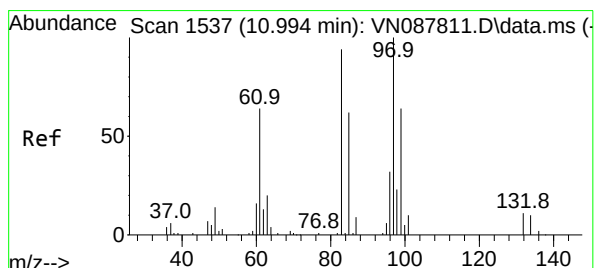
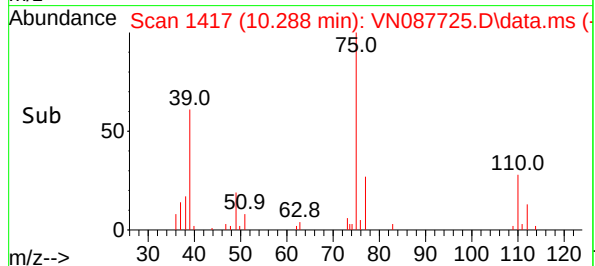
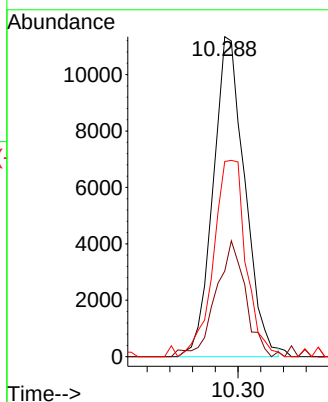
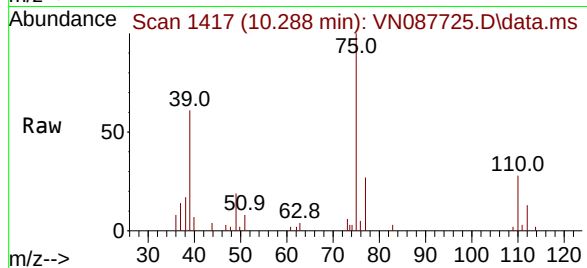
VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2193  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 25.2  | 27.8  | 41.6  |
| 39       | 61.0  | 47.6  | 71.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 5.222 ug/l

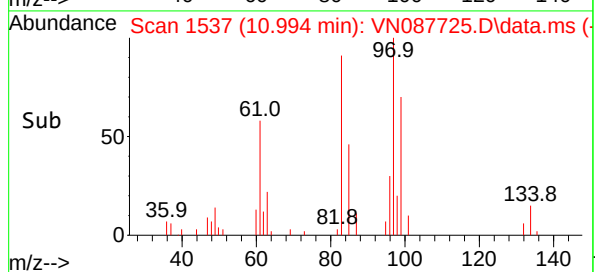
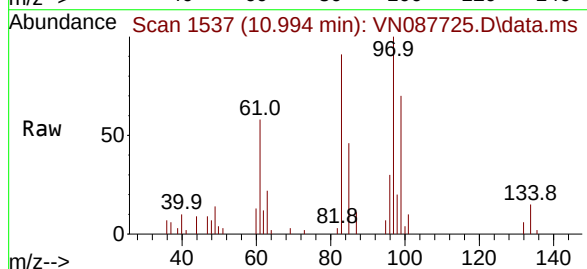
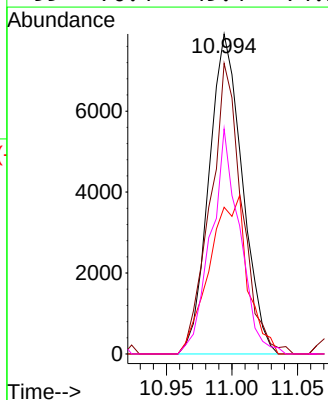
RT: 10.994 min Scan# 1537

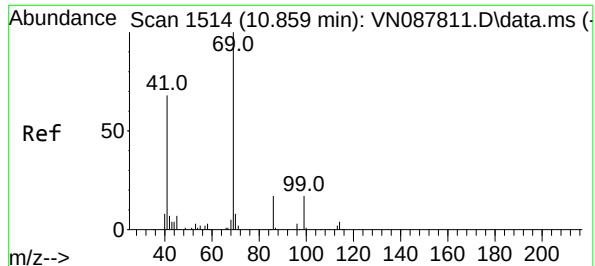
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 14010 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 90.8  | 70.5  | 105.7 |
| 85       | 45.9  | 46.3  | 69.5  |
| 99       | 70.4  | 49.4  | 74.2  |





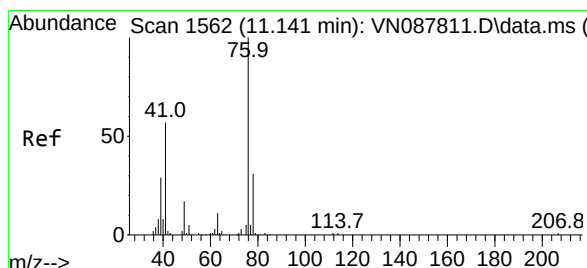
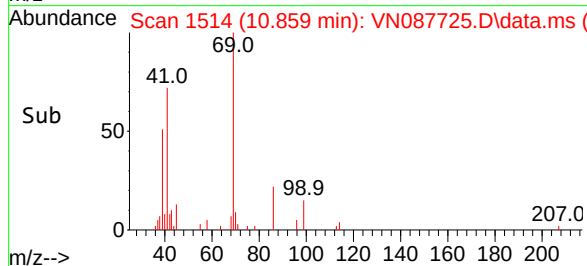
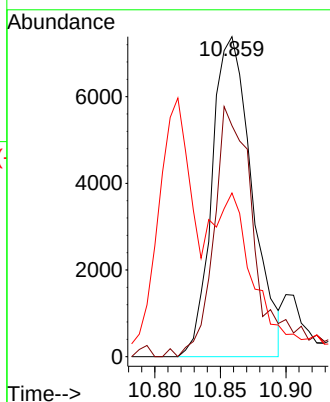
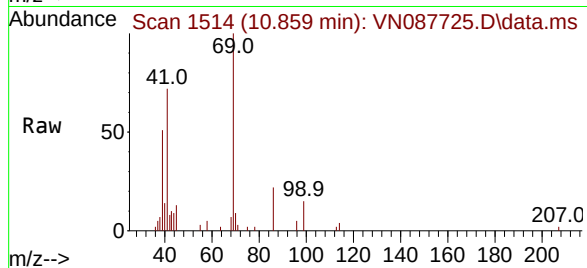
#51  
Ethyl methacrylate  
Concen: 3.425 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 69 Resp: 15678  
Ion Ratio Lower Upper  
69 100  
41 72.2 33.7 101.0  
39 41.3 20.3 60.9

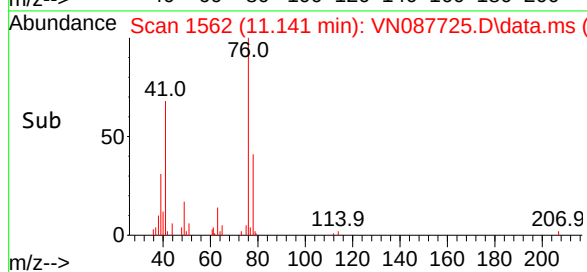
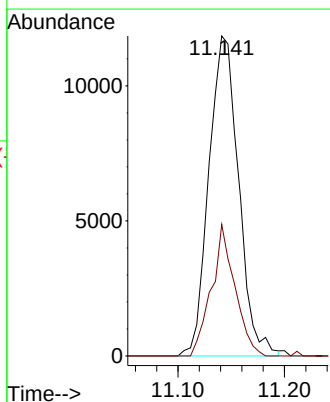
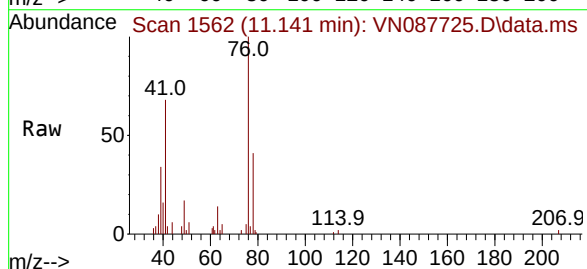
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

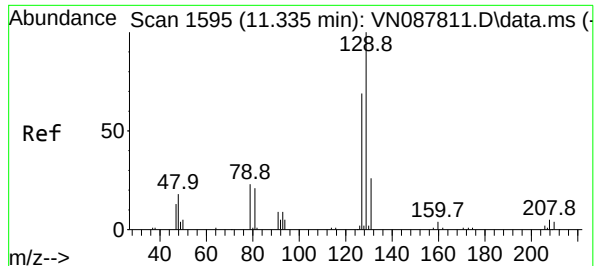


#52  
1,3-Dichloropropane  
Concen: 4.782 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 76 Resp: 23001  
Ion Ratio Lower Upper  
76 100  
78 32.4 0.0 65.2

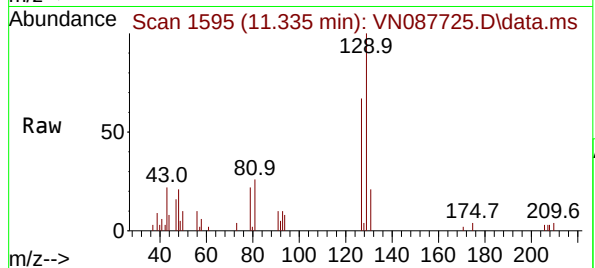






#53  
Dibromochloromethane  
Concen: 4.974 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

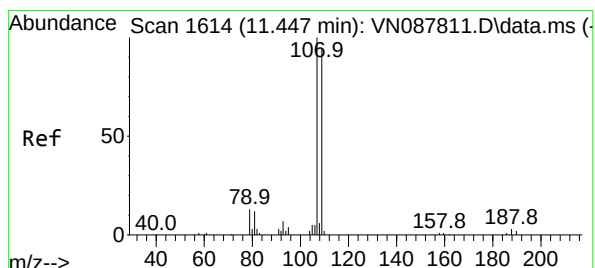
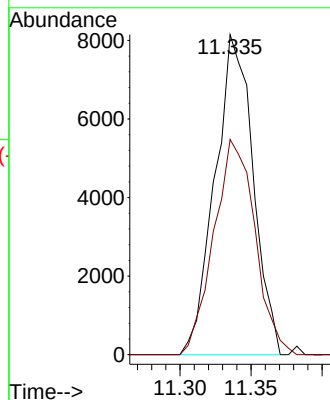
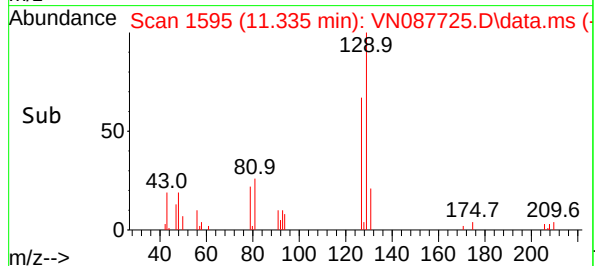
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



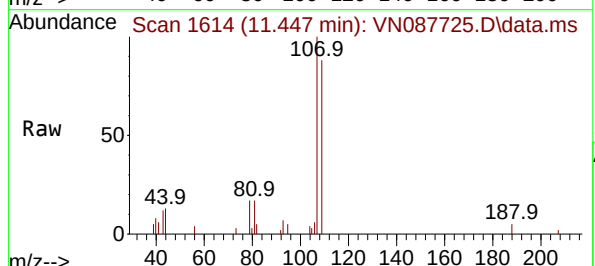
Tgt Ion:129 Resp: 15190  
Ion Ratio Lower Upper  
129 100  
127 72.6 42.6 128.0

Manual Integrations  
APPROVED

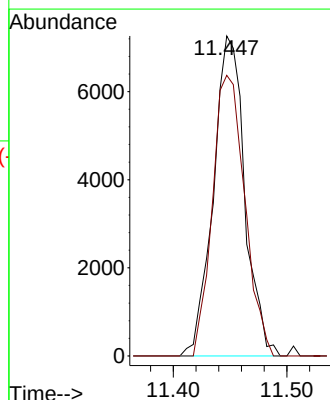
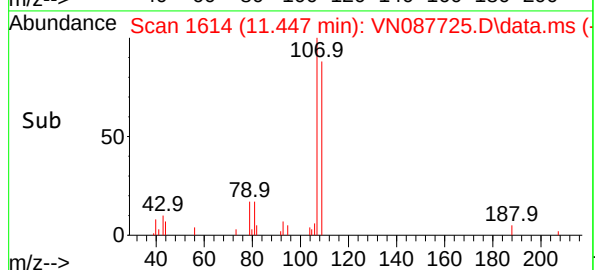
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

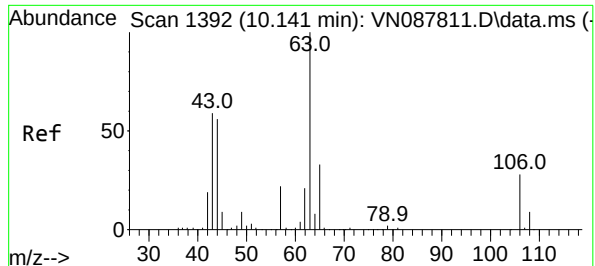


#54  
1,2-Dibromoethane  
Concen: 4.937 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23



Tgt Ion:107 Resp: 13958  
Ion Ratio Lower Upper  
107 100  
109 90.3 74.6 112.0





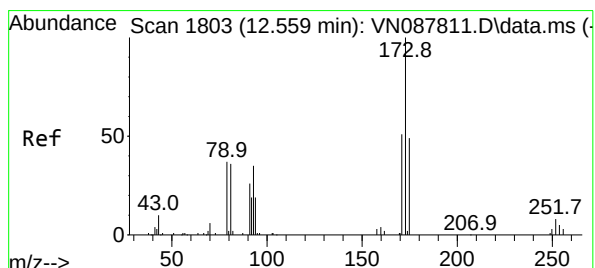
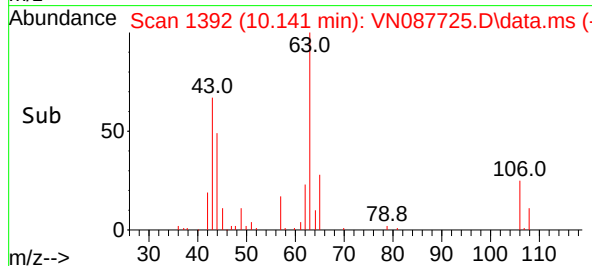
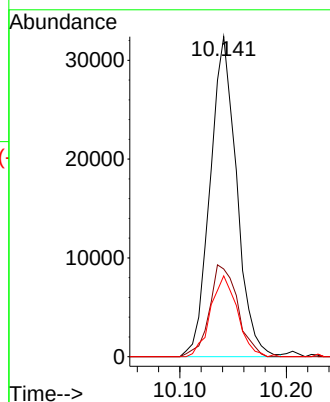
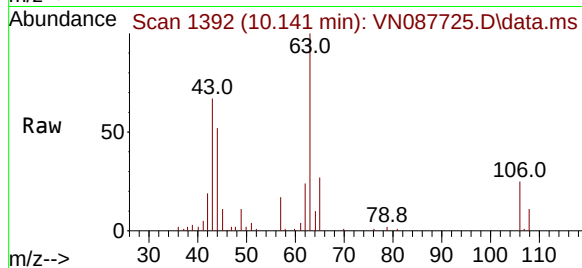
#55  
2-Chloroethyl vinyl ether  
Concen: 22.629 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 63 Resp: 5597  
Ion Ratio Lower Upper  
63 100  
65 30.4 26.6 40.0  
106 25.5 21.1 31.7

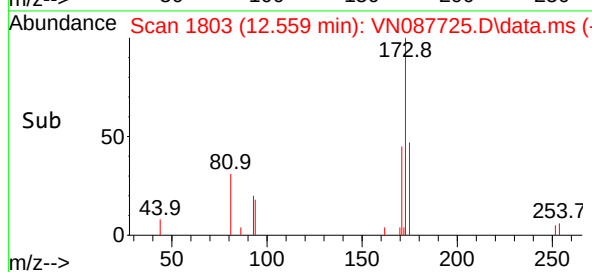
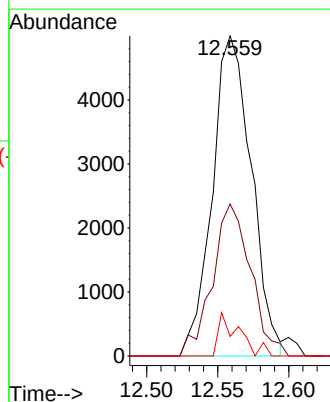
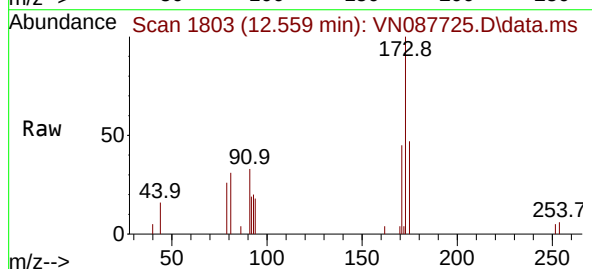
Manual Integrations  
APPROVED

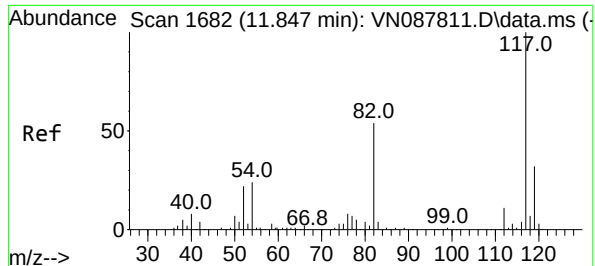
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 4.732 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion:173 Resp: 9575  
Ion Ratio Lower Upper  
173 100  
175 46.5 39.8 59.6  
254 3.6 6.2 9.4#





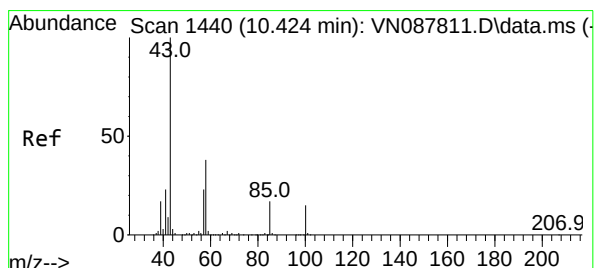
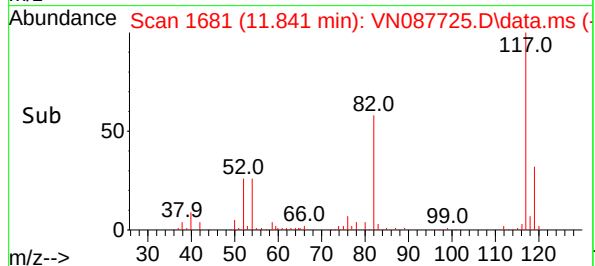
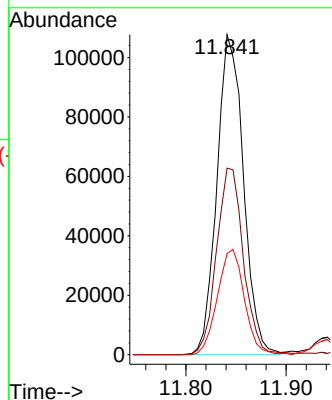
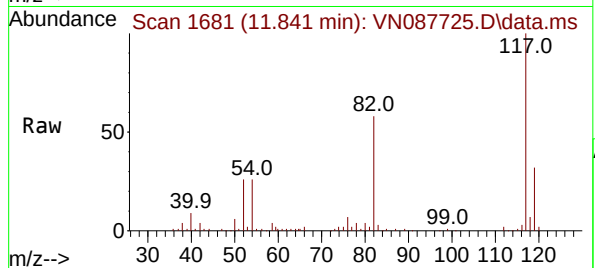
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1181  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 117 Resp: 19790  
Ion Ratio Lower Upper  
117 100  
82 59.0 45.9 68.9  
119 33.2 25.3 37.9

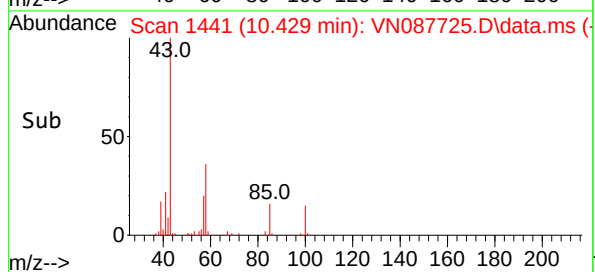
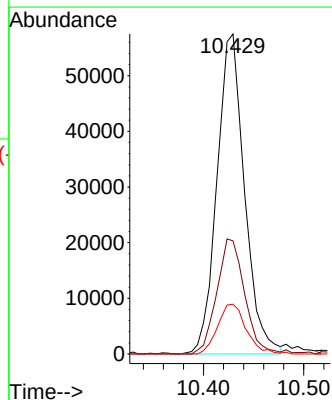
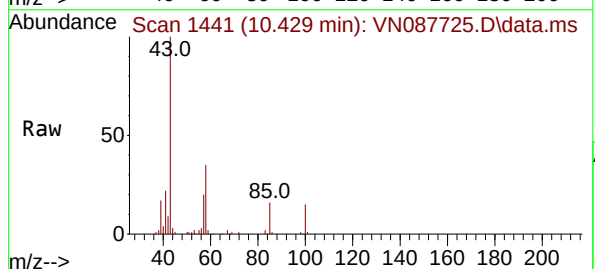
Manual Integrations  
APPROVED

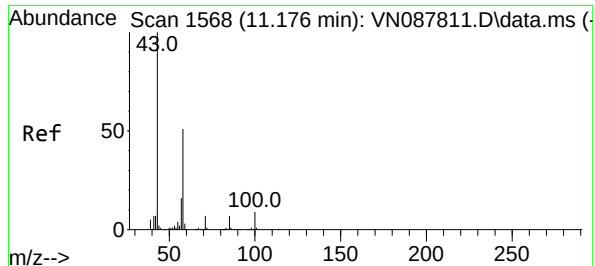
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 22.421 ug/l  
RT: 10.429 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

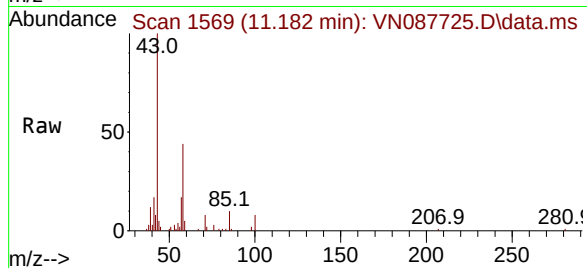
Tgt Ion: 43 Resp: 109790  
Ion Ratio Lower Upper  
43 100  
58 36.1 29.6 44.4  
85 16.0 13.0 19.4





#59  
2-Hexanone  
Concen: 16.623 ug/l  
RT: 11.182 min Scan# 1568  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

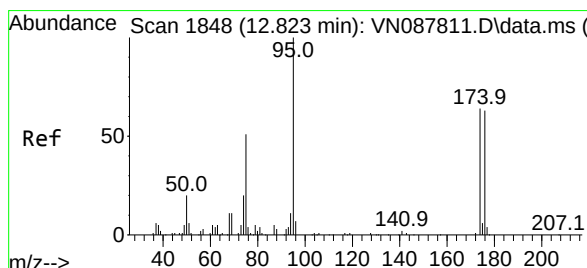
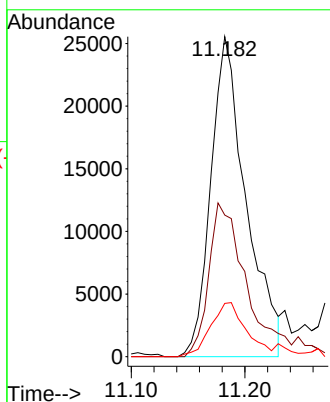
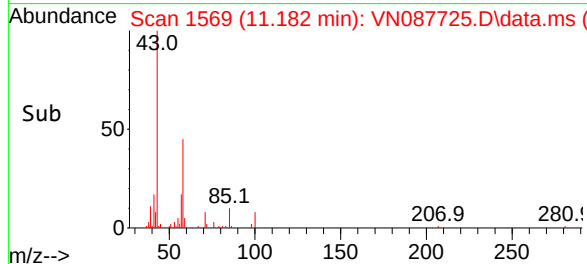
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



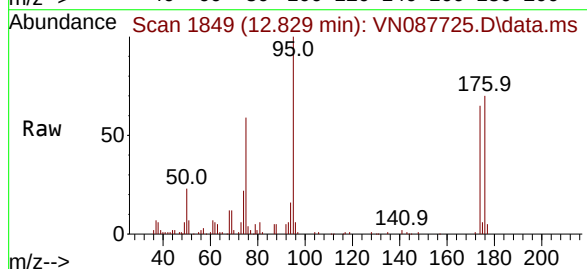
Tgt Ion: 43 Resp: 5512  
Ion Ratio Lower Upper  
43 100  
58 50.7 40.2 60.4  
57 17.1 13.7 20.5

Manual Integrations  
APPROVED

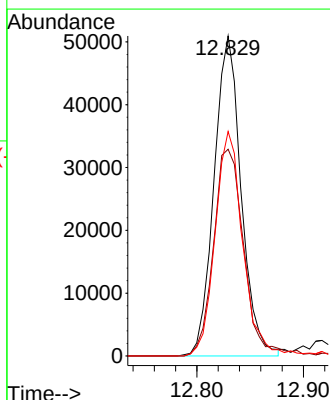
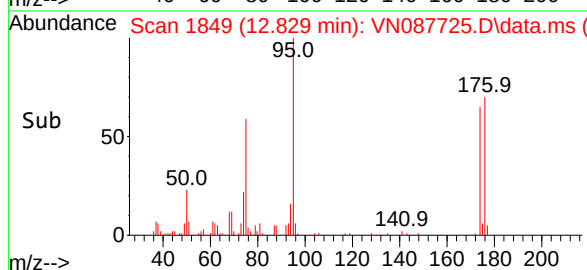
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

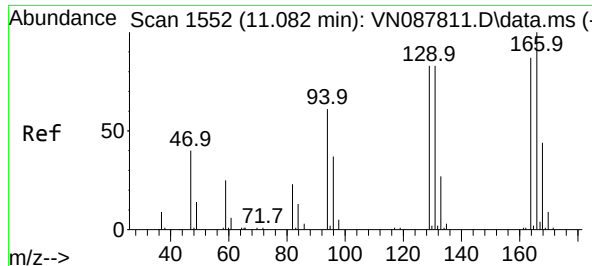


#60  
4-Bromofluorobenzene  
Concen: 26.721 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23



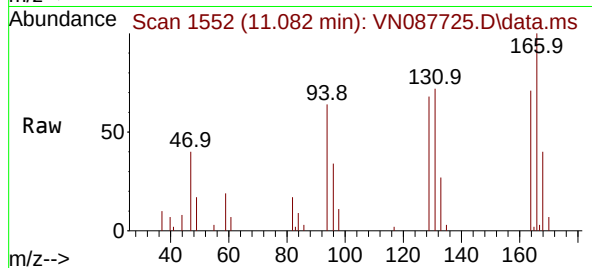
Tgt Ion: 95 Resp: 89929  
Ion Ratio Lower Upper  
95 100  
174 70.0 55.4 83.0  
176 71.1 51.5 77.3





#61  
Tetrachloroethene  
Concen: 5.392 ug/l  
RT: 11.082 min Scan# 11082  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

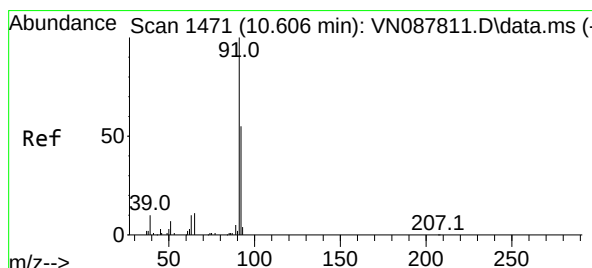
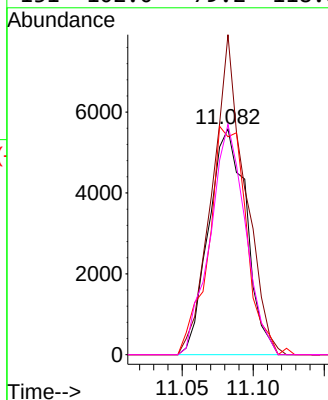
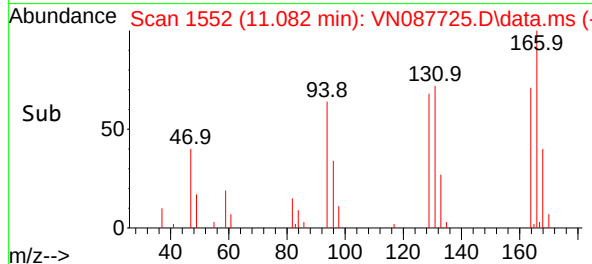
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



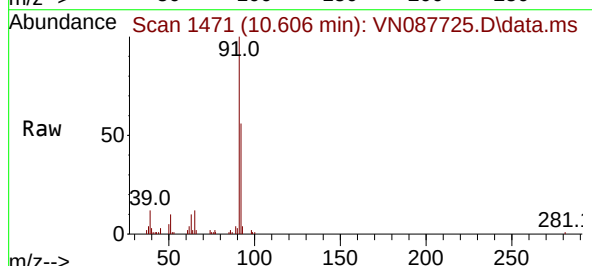
Tgt Ion:164 Resp: 1030  
Ion Ratio Lower Upper  
164 100  
166 141.8 97.3 145.9  
129 96.6 78.6 117.8  
131 102.0 79.2 118.8

Manual Integrations  
APPROVED

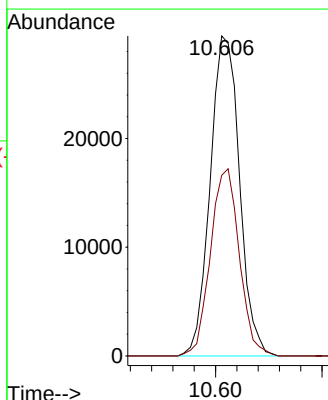
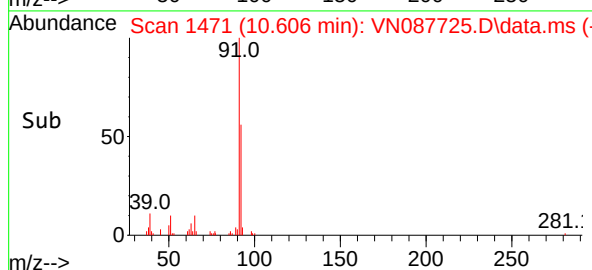
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

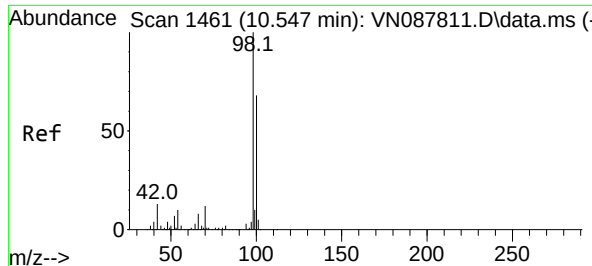


#62  
Toluene  
Concen: 4.722 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23



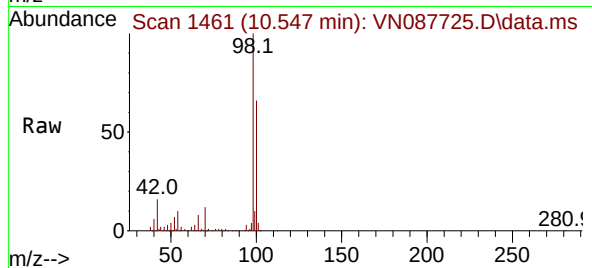
Tgt Ion: 91 Resp: 56231  
Ion Ratio Lower Upper  
91 100  
92 57.5 45.4 68.0





#63  
Toluene-d8  
Concen: 30.356 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

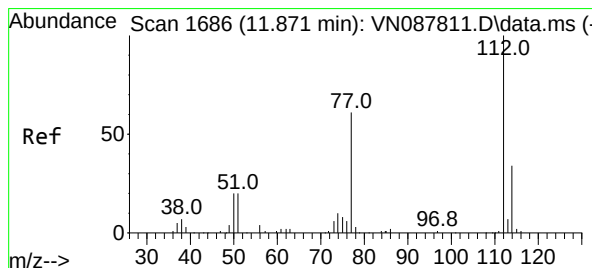
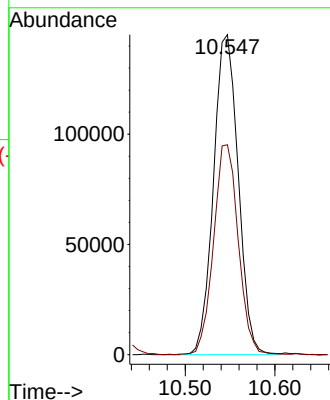
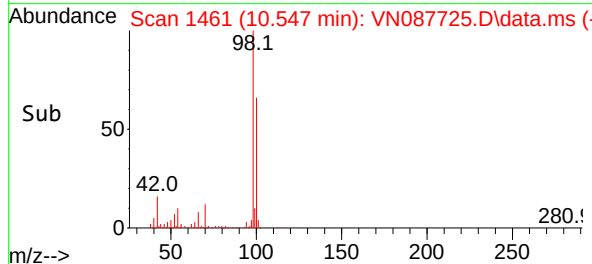
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



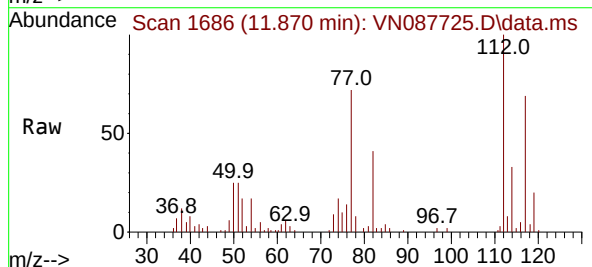
Tgt Ion: 98 Resp: 277568  
Ion Ratio Lower Upper  
98 100  
100 65.7 50.6 76.0

Manual Integrations  
APPROVED

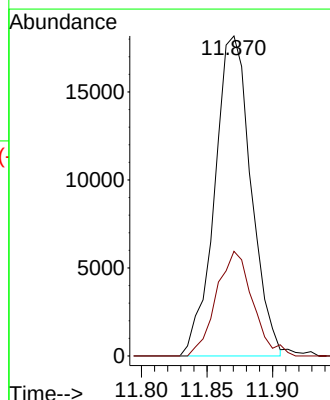
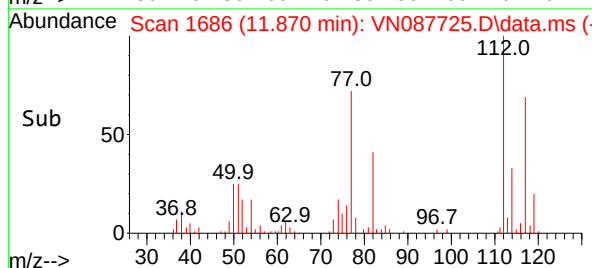
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

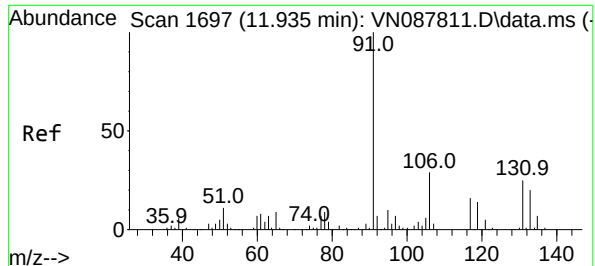


#64  
Chlorobenzene  
Concen: 4.801 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23



Tgt Ion:112 Resp: 35078  
Ion Ratio Lower Upper  
112 100  
114 32.7 23.5 35.3





#65

1,1,1,2-Tetrachloroethane

Concen: 5.065 ug/l

RT: 11.941 min Scan# 1697

Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

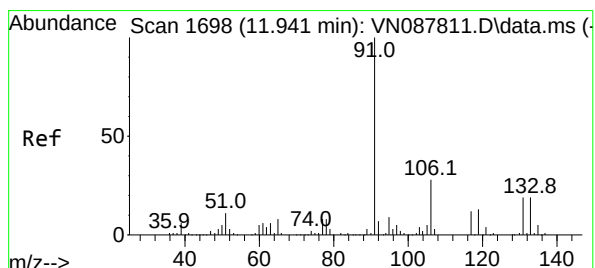
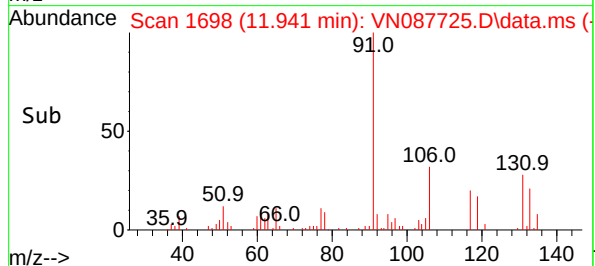
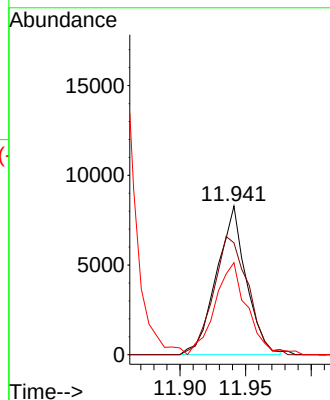
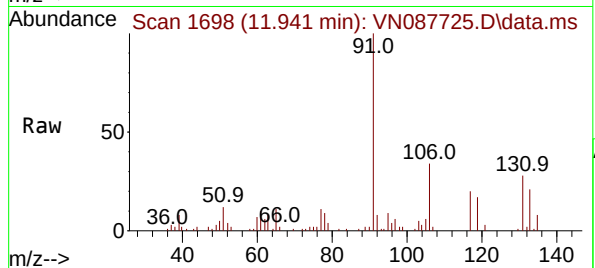
VSTDIC005

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 92.9  | 0.0   | 195.8 |
| 119     | 66.0  | 0.0   | 139.0 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66

Ethyl Benzene

Concen: 4.362 ug/l

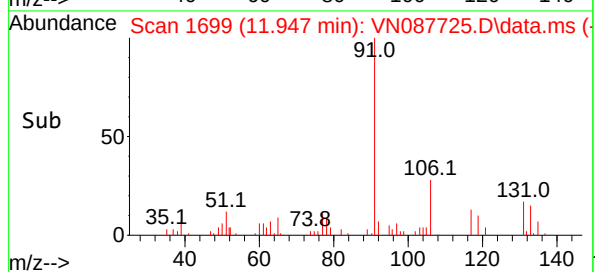
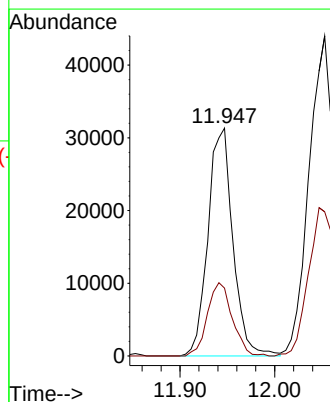
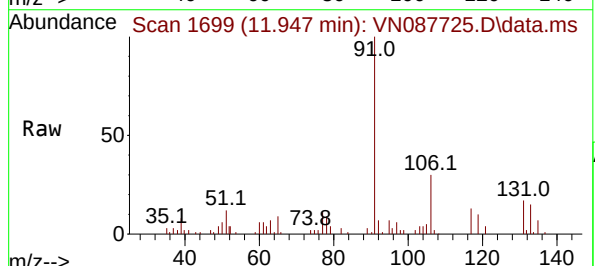
RT: 11.947 min Scan# 1699

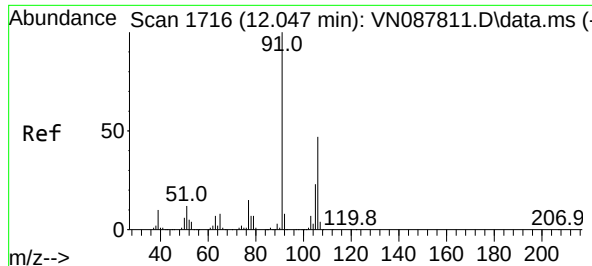
Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 29.8  | 21.3  | 31.9  |





#67

m/p-Xylenes

Concen: 8.594 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 4151

Ion Ratio Lower Upper

106 100

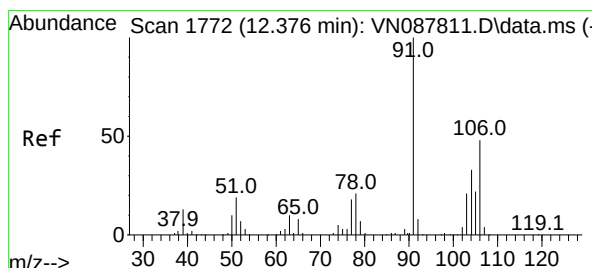
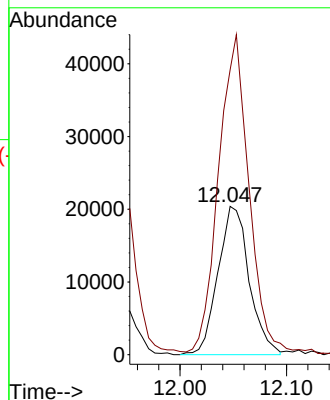
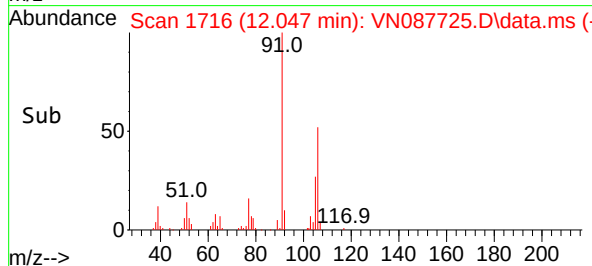
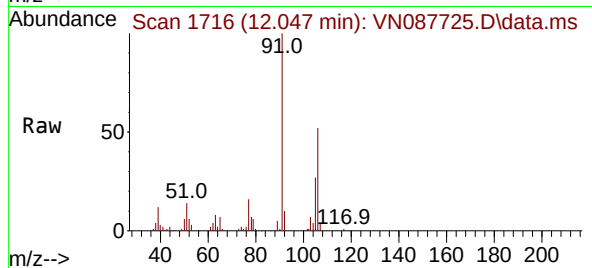
91 212.4 174.3 261.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#68

o-Xylene

Concen: 4.176 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VN087725.D

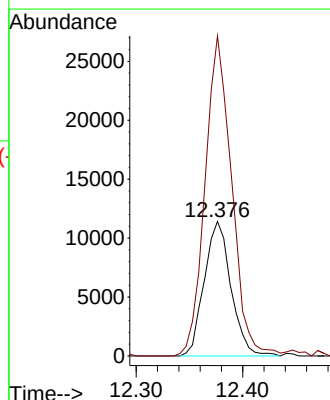
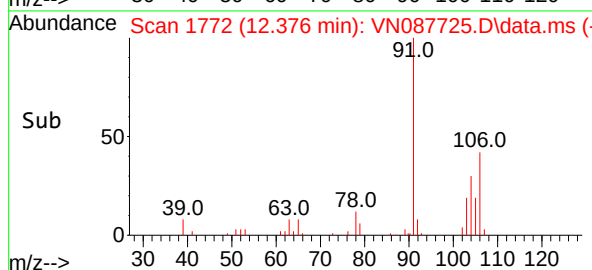
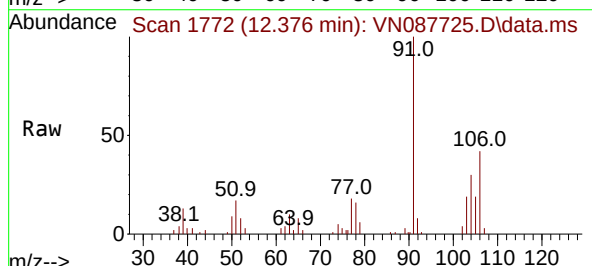
Acq: 04 Sep 2025 16:23

Tgt Ion:106 Resp: 19899

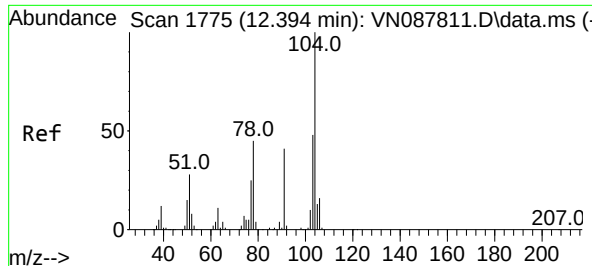
Ion Ratio Lower Upper

106 100

91 236.6 107.7 323.3







#69

Styrene

Concen: 4.057 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

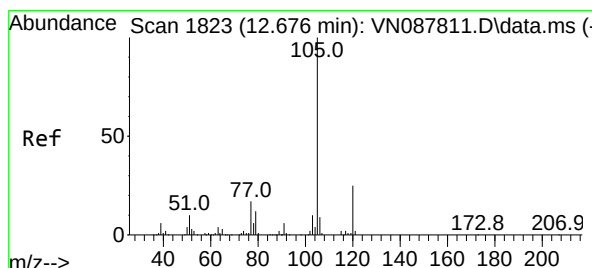
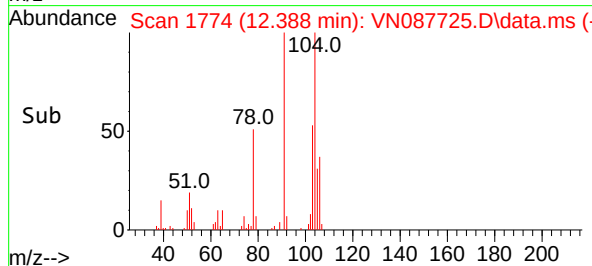
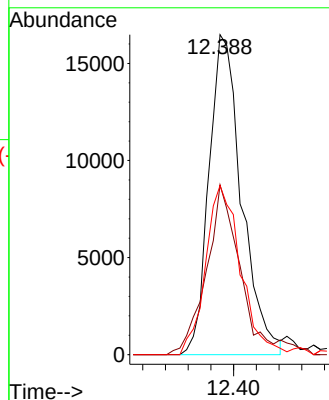
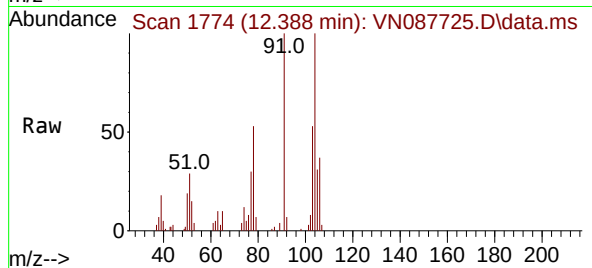
VSTDIC005

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 3288      |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 50.7  | 41.0 61.6 |
| 103         | 56.5  | 44.6 66.8 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#70

Isopropylbenzene

Concen: 4.232 ug/l

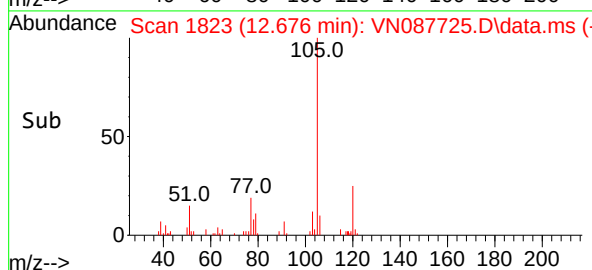
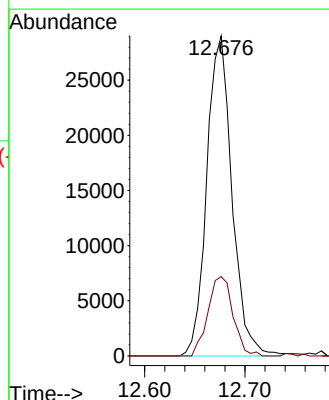
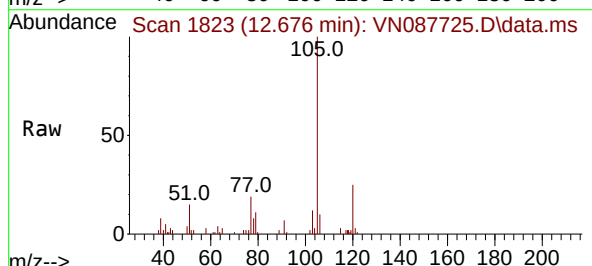
RT: 12.676 min Scan# 1823

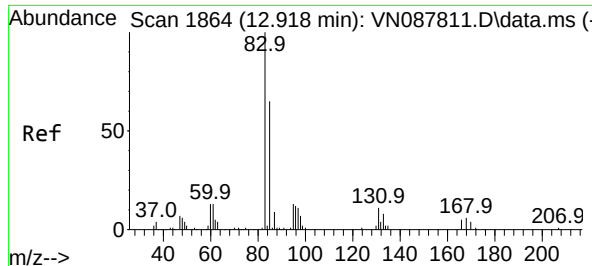
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 50734     |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 24.3  | 17.4 32.4 |





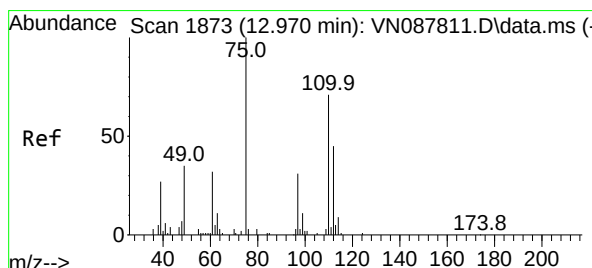
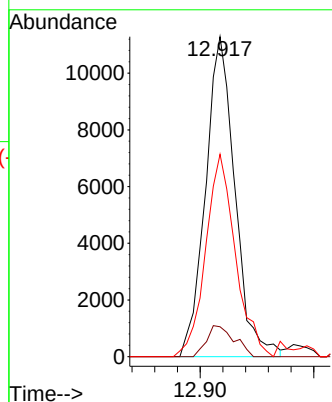
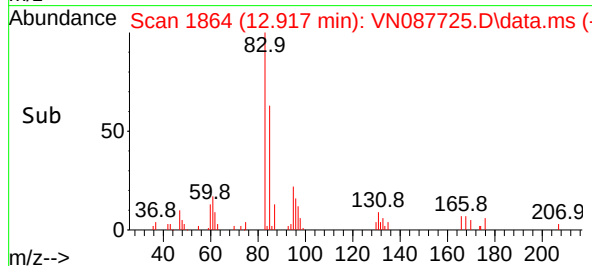
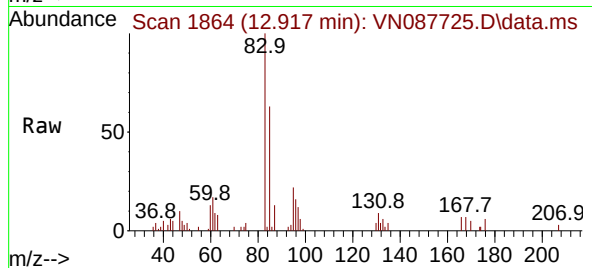
#71  
1,1,2,2-Tetrachloroethane  
Concen: 4.858 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

| Tgt Ion: | 83    | Resp: | 20319 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 9.0   | 4.8   | 14.3  |
| 85       | 63.9  | 31.9  | 95.7  |

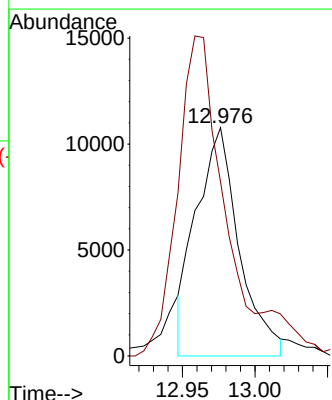
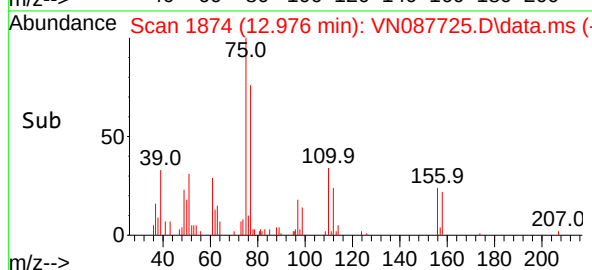
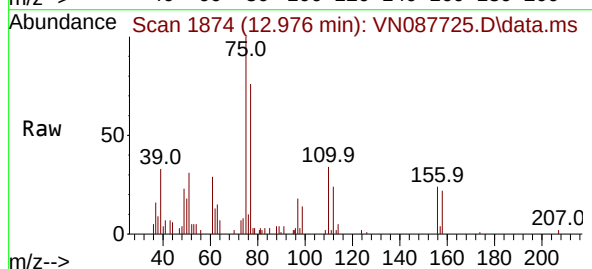
Manual Integrations  
APPROVED

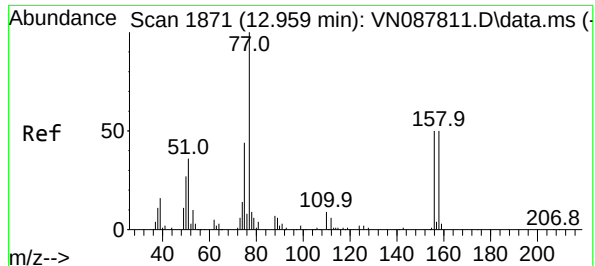
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 5.682 ug/l m  
RT: 12.976 min Scan# 1874  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

| Tgt Ion: | 75    | Resp: | 22173 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 144.7 | 0.0   | 378.8 |





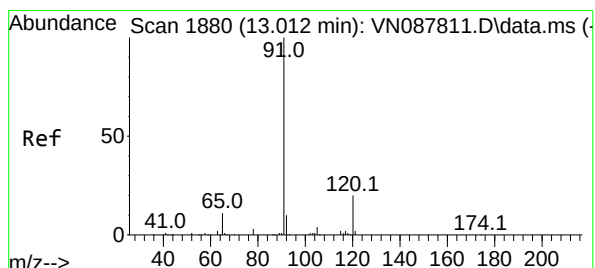
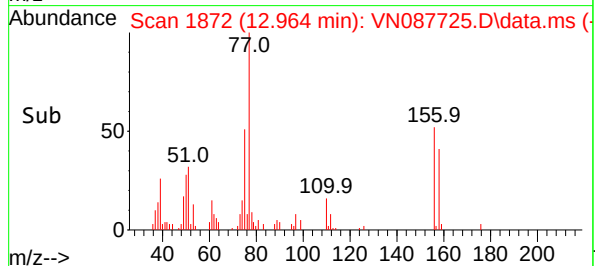
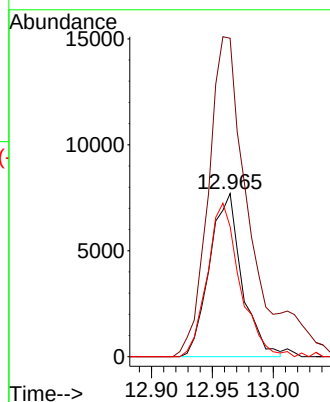
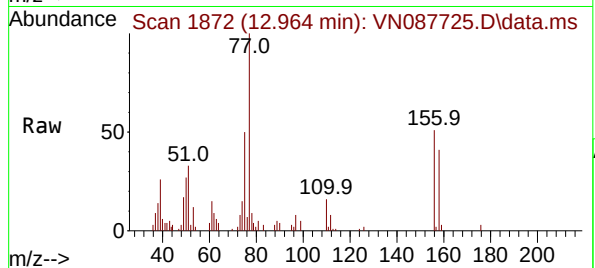
#73  
Bromobenzene  
Concen: 4.997 ug/l  
RT: 12.964 min Scan# 1871  
Delta R.T. 0.012 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion:156 Resp: 14160  
Ion Ratio Lower Upper  
156 100  
77 226.6 0.0 484.2  
158 94.6 0.0 186.2

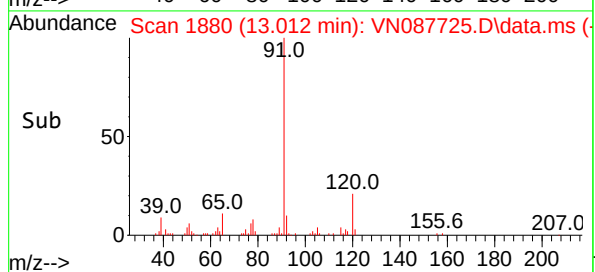
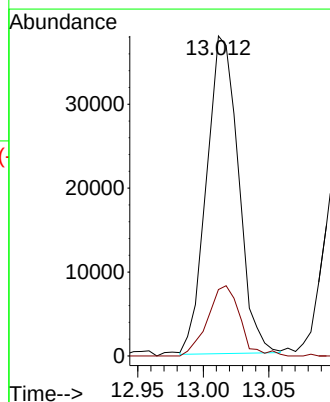
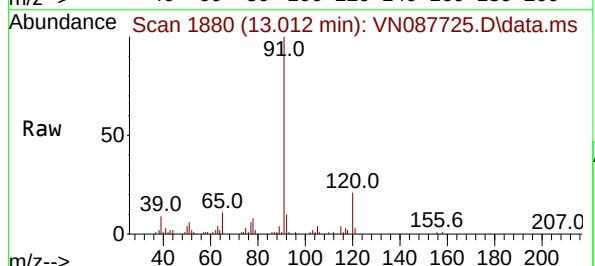
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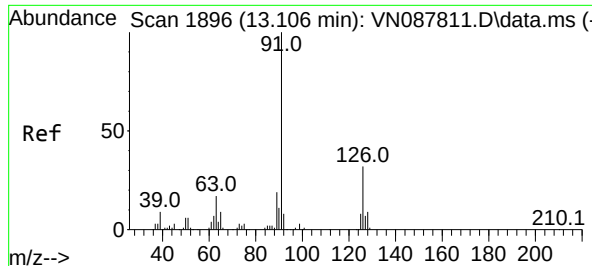
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#74  
n-propylbenzene  
Concen: 4.247 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion: 91 Resp: 64047  
Ion Ratio Lower Upper  
91 100  
120 22.5 0.0 42.2





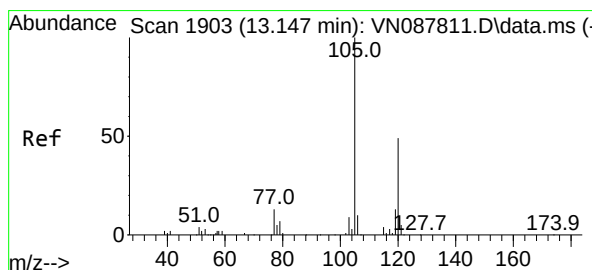
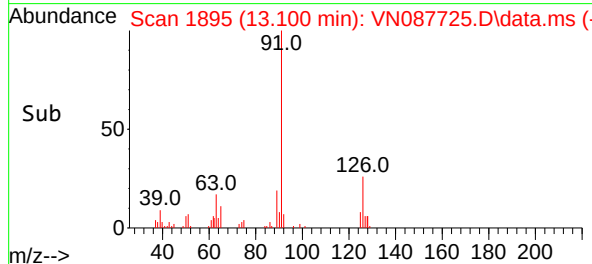
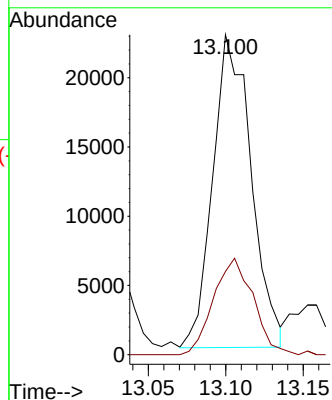
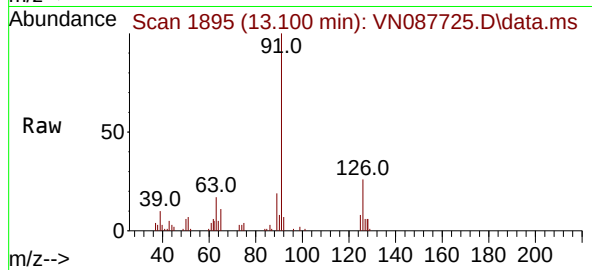
#75  
2-Chlorotoluene  
Concen: 4.188 ug/l  
RT: 13.100 min Scan# 1895  
Delta R.T. -0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion: 91 Resp: 3885  
Ion Ratio Lower Upper  
91 100  
126 31.9 0.0 60.4

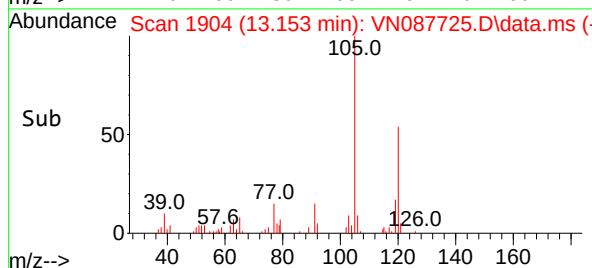
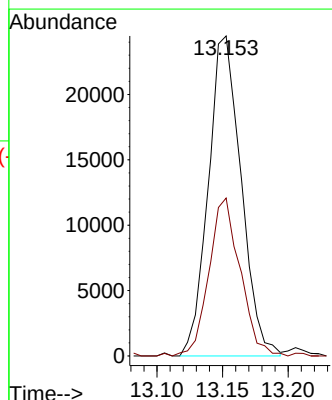
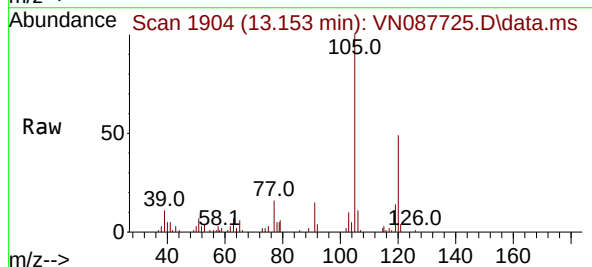
Manual Integrations  
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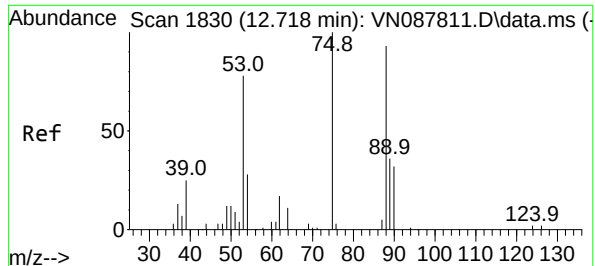
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 4.143 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Tgt Ion:105 Resp: 42622  
Ion Ratio Lower Upper  
105 100  
120 46.8 0.0 92.6





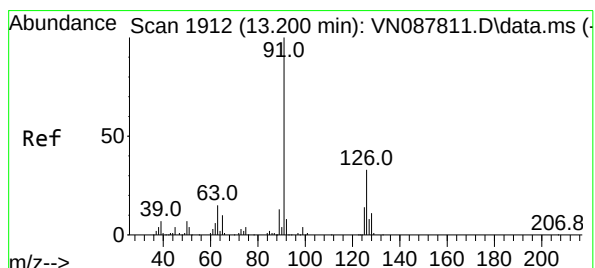
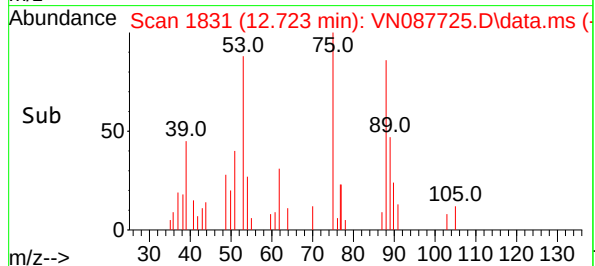
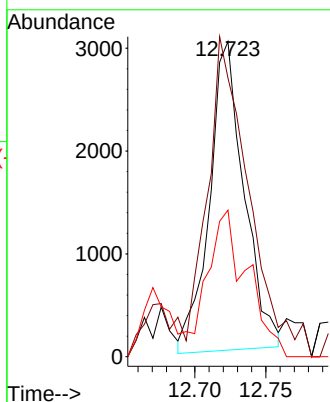
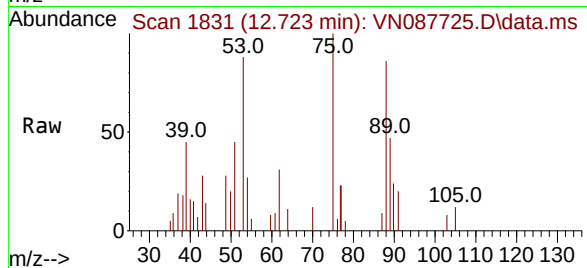
#77  
t-1,4-Dichloro-2-butene  
Concen: 3.485 ug/l  
RT: 12.723 min Scan# 1831  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 83.3  | 45.3  | 135.9 |
| 89      | 42.8  | 18.8  | 56.3  |

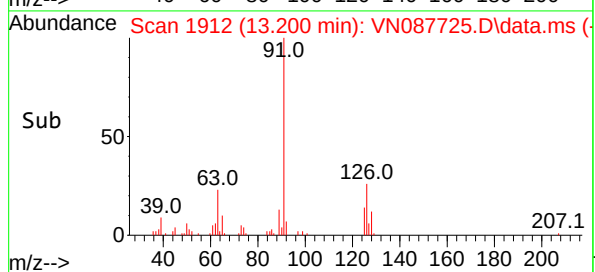
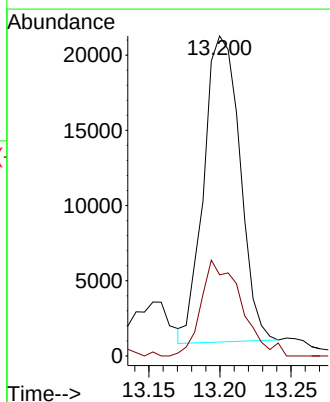
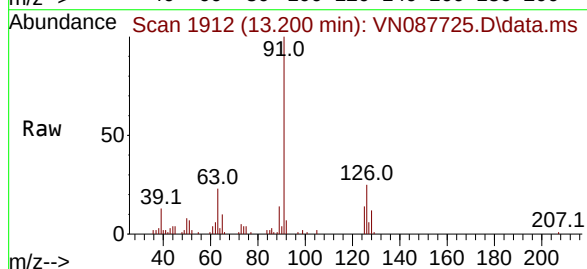
Manual Integrations  
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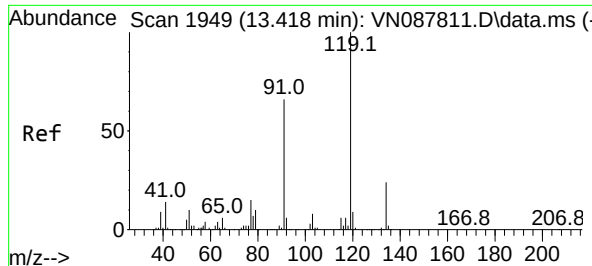
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78  
4-Chlorotoluene  
Concen: 3.810 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 33.8  | 0.0   | 67.0  |





#79

tert-butylbenzene

Concen: 4.085 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

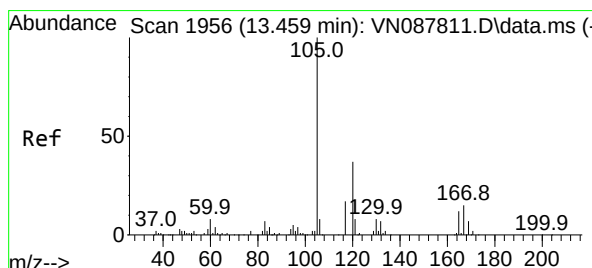
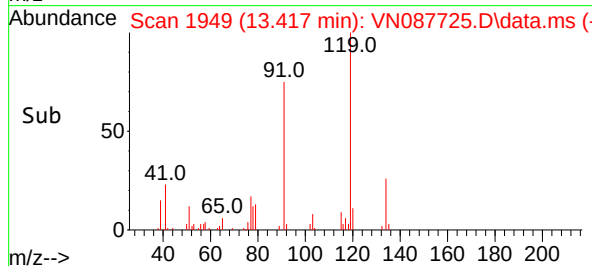
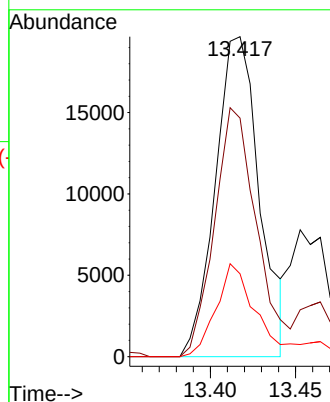
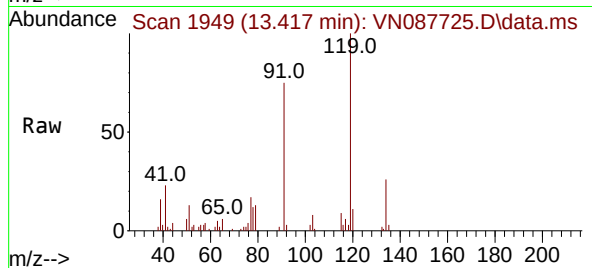
VSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 35400 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 74.8  | 0.0   | 142.6 |
| 134      | 24.9  | 0.0   | 47.2  |

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#80

1,2,4-Trimethylbenzene

Concen: 4.107 ug/l

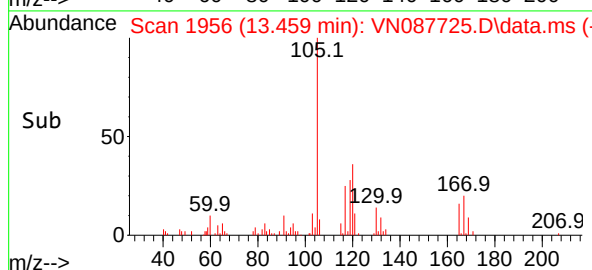
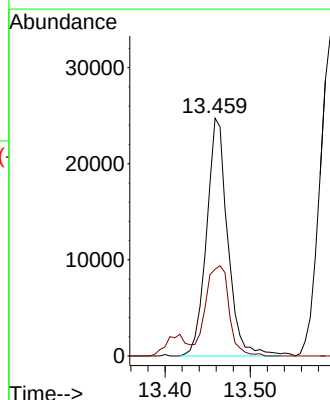
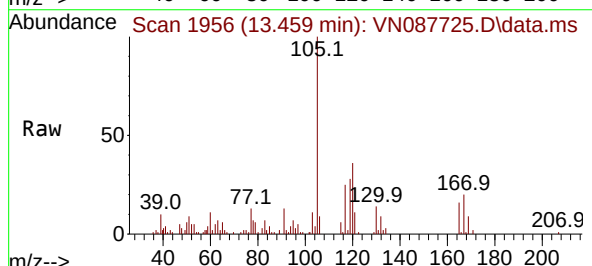
RT: 13.459 min Scan# 1956

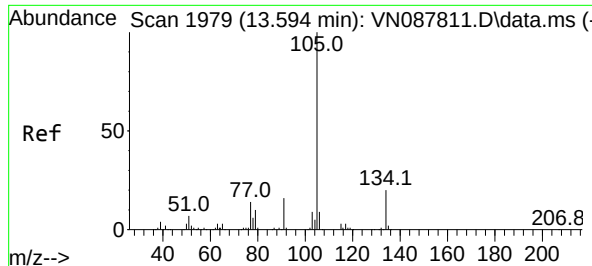
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 42618 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 42.2  | 0.0   | 86.6  |





#81

sec-Butylbenzene

Concen: 4.253 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

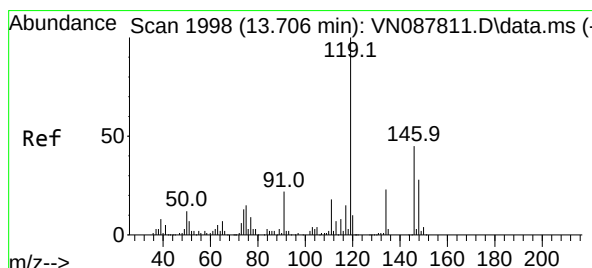
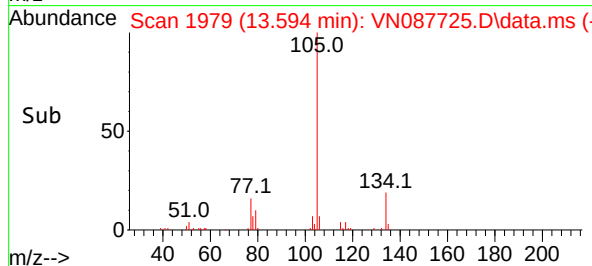
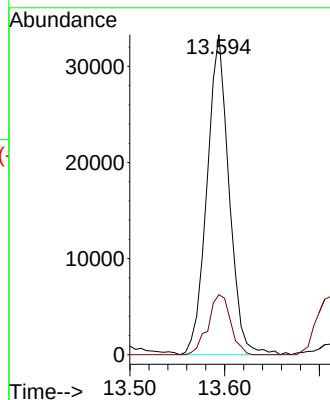
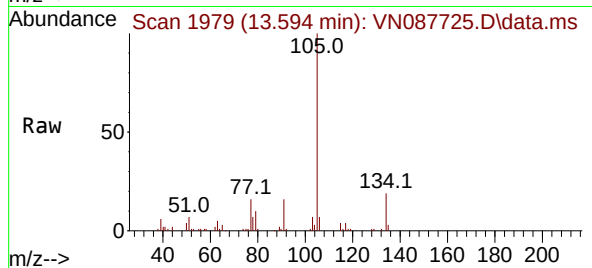
ClientSampleId :

VSTDICC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 53740 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 134       | 19.1  | 0.0   | 37.0  |

Manual Integrations  
APPROVED

|                 |                     |            |
|-----------------|---------------------|------------|
| Reviewed By :   | Semsettin Yesilyurt | 09/05/2025 |
| Supervised By : | Mahesh Dadoda       | 09/05/2025 |



#82

p-Isopropyltoluene

Concen: 4.132 ug/l

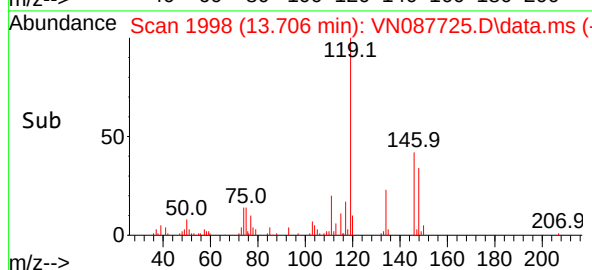
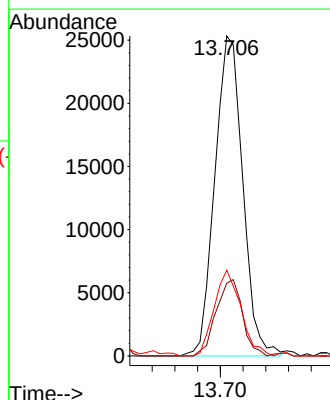
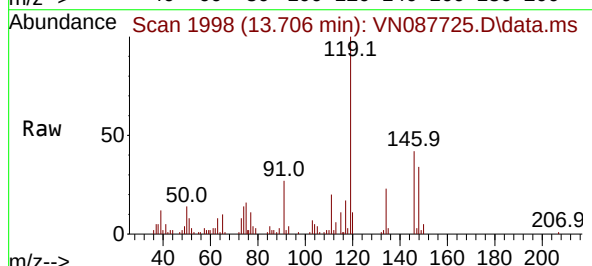
RT: 13.706 min Scan# 1998

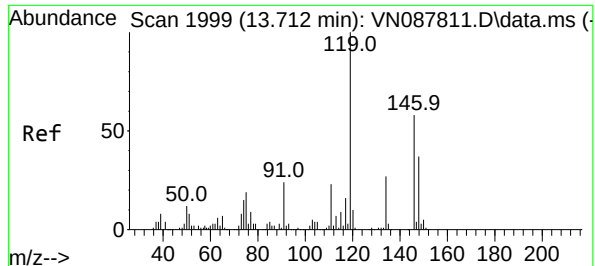
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 43232 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 134       | 22.4  | 0.0   | 49.4  |
| 91        | 25.7  | 0.0   | 52.2  |





#83

1,3-Dichlorobenzene

Concen: 4.627 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

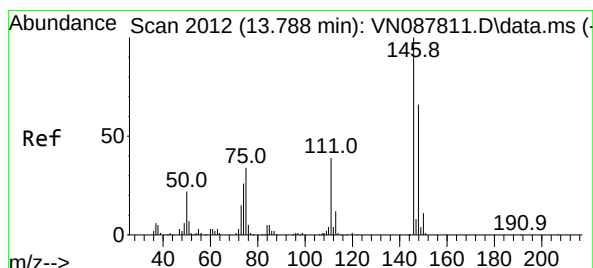
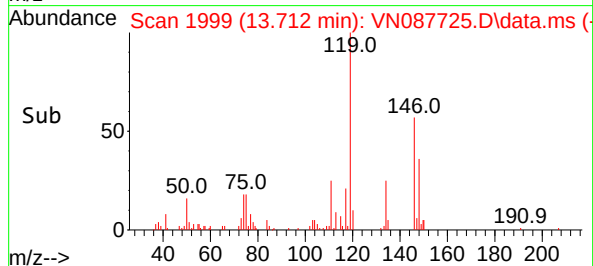
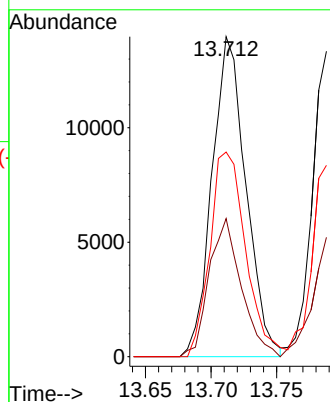
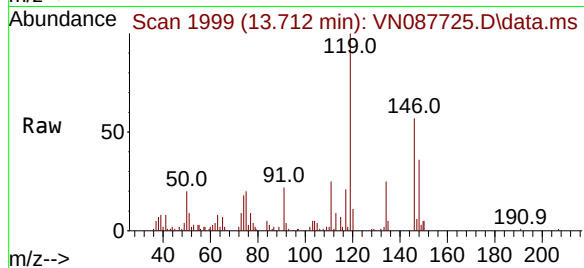
VSTDIC005

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 2512 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 41.0  | 21.1  | 63.4 |
| 148       | 67.9  | 31.0  | 93.0 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 4.693 ug/l

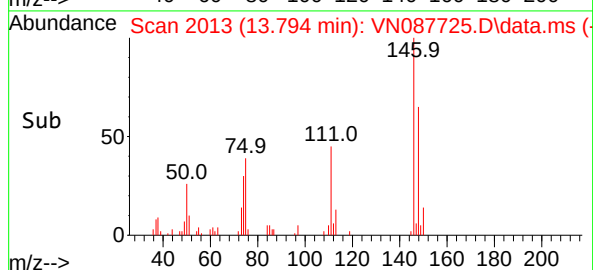
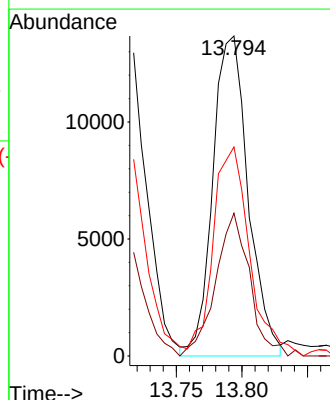
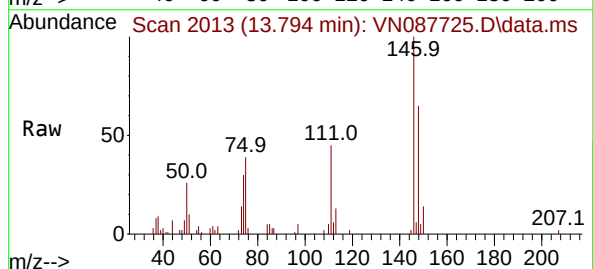
RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

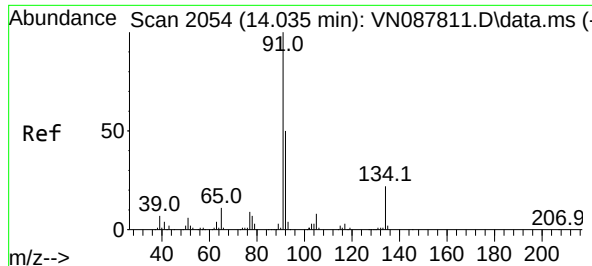
Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 25650 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 42.6  | 20.2  | 60.5  |
| 148       | 66.9  | 31.5  | 94.5  |







#85

n-Butylbenzene

Concen: 4.055 ug/l

RT: 14.029 min Scan# 2053

Delta R.T. -0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

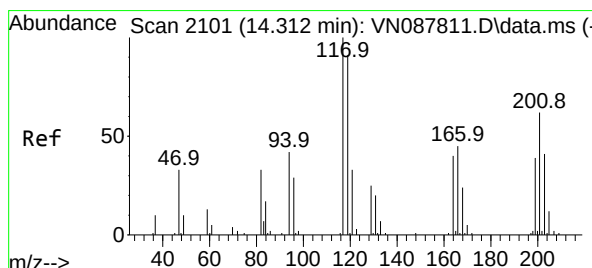
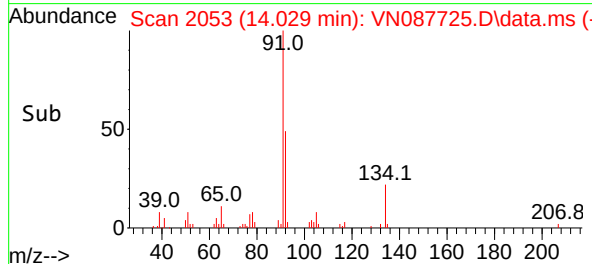
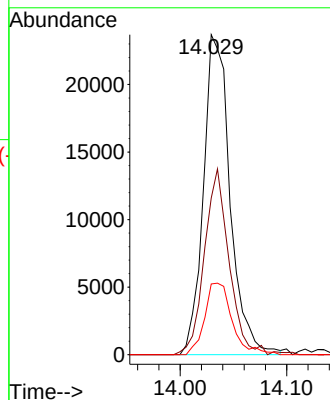
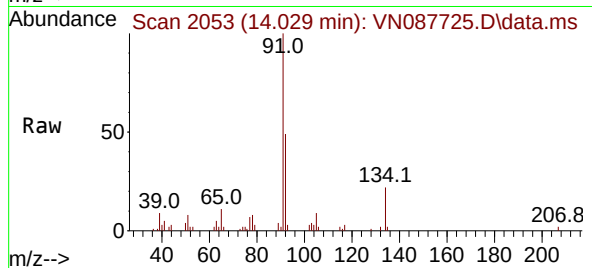
VSTDIC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 4120  |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 52.9  | 0.0   | 104.0 |
| 134       | 23.1  | 0.0   | 46.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86

Hexachloroethane

Concen: 4.553 ug/l

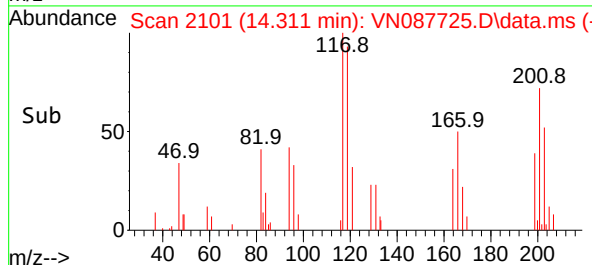
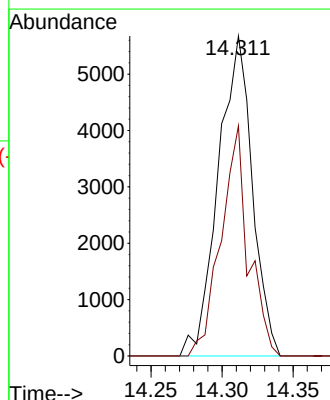
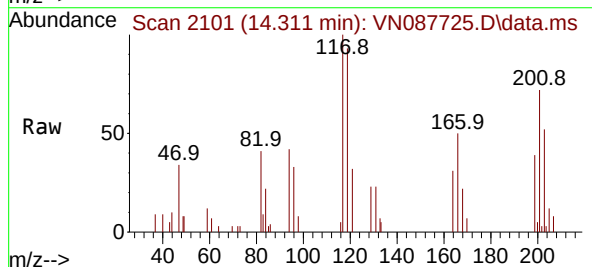
RT: 14.311 min Scan# 2101

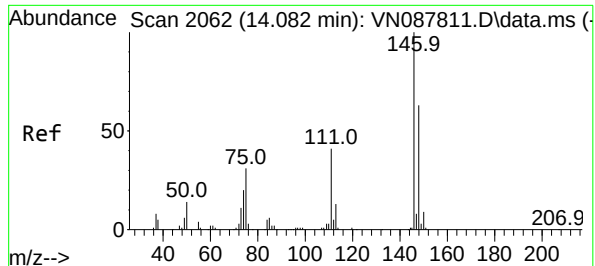
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 117   | Resp: | 9454 |
| Ion Ratio | Lower | Upper |      |
| 117       | 100   |       |      |
| 201       | 58.2  | 29.9  | 89.7 |





#87

1,2-Dichlorobenzene

Concen: 4.602 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

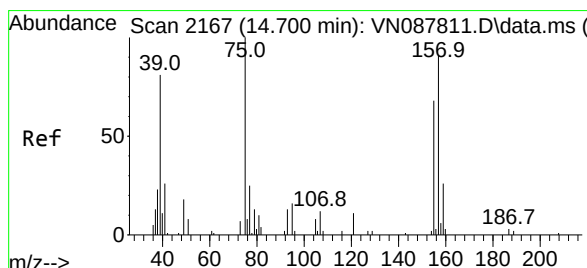
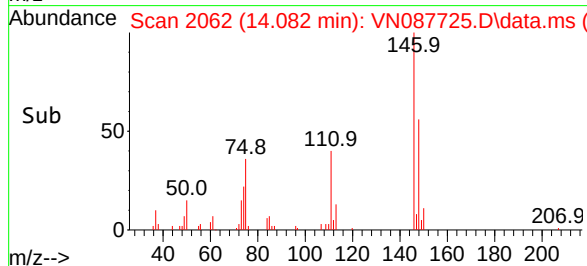
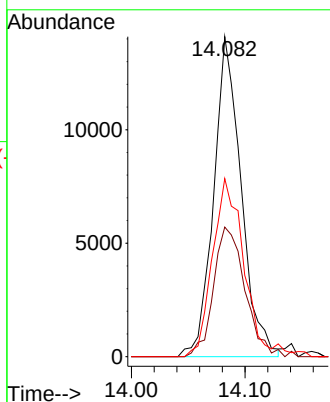
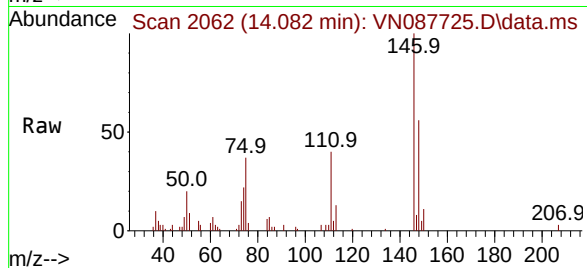
ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 23694 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 46.3  | 21.5  | 64.5  |
| 148      | 62.1  | 33.4  | 100.1 |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 3.875 ug/l m

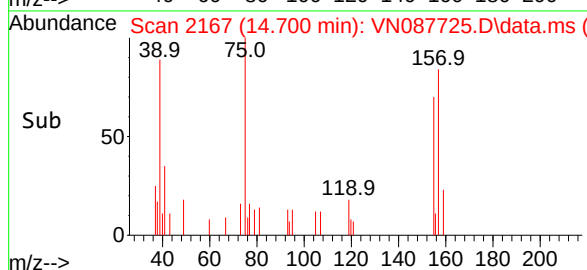
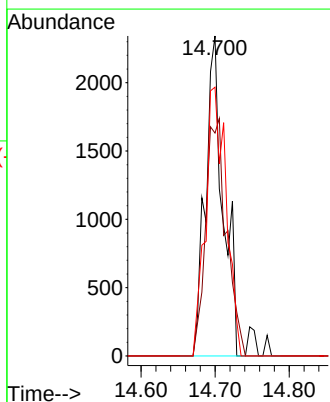
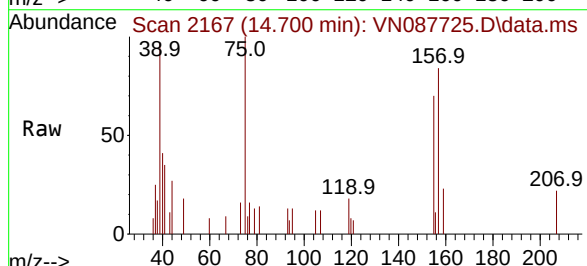
RT: 14.700 min Scan# 2167

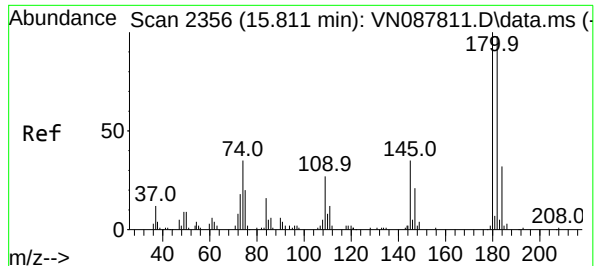
Delta R.T. 0.006 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 4041  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 155      | 84.0  | 53.0  | 79.4# |
| 157      | 94.5  | 72.2  | 108.4 |





#89

1,2,4-Trichlorobenzene

Concen: 4.443 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

Instrument :

MSVOA\_N

ClientSampleId :

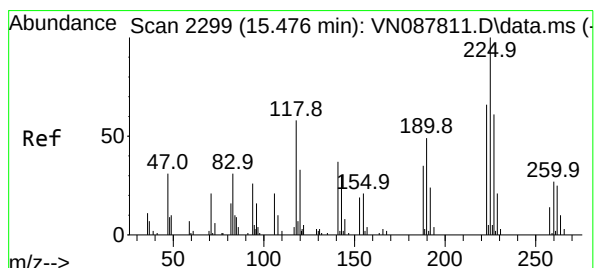
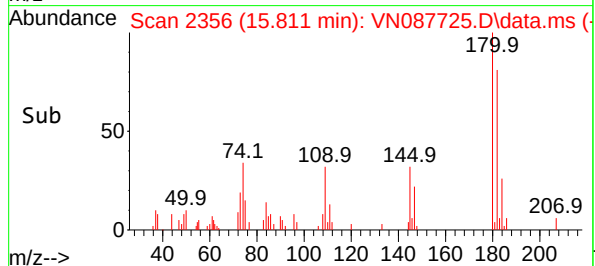
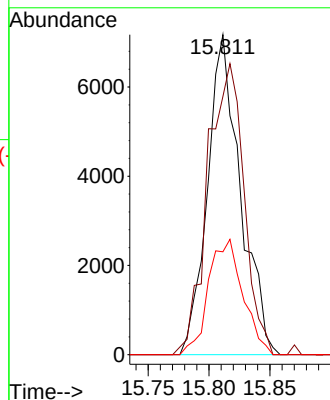
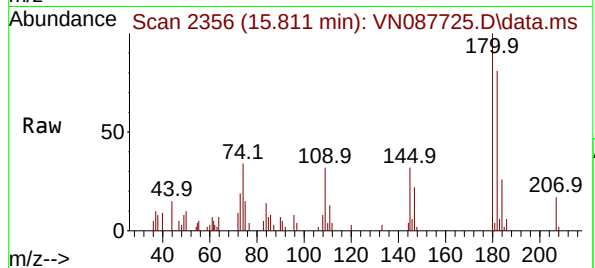
VSTDICC005

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 13520 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.9  | 74.6  | 111.8 |
| 145       | 37.6  | 27.4  | 41.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 4.125 ug/l

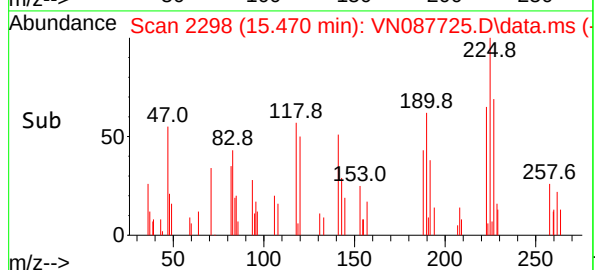
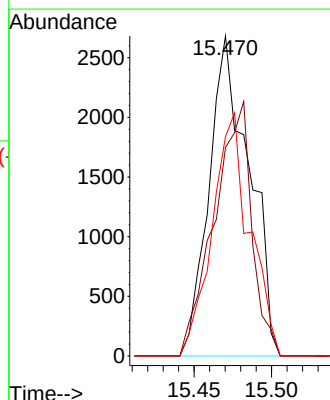
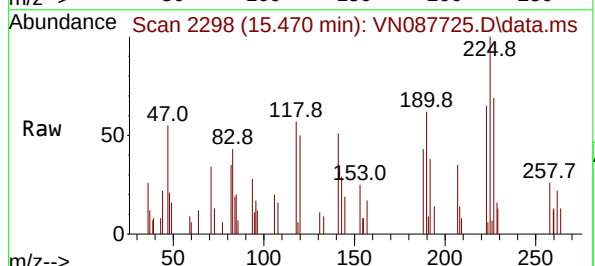
RT: 15.470 min Scan# 2298

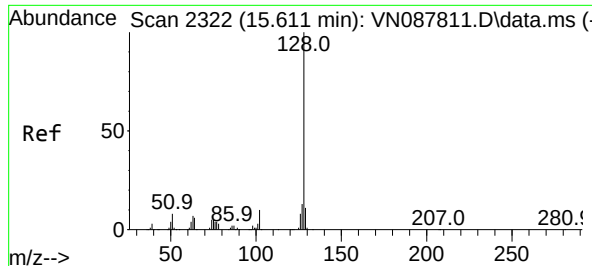
Delta R.T. -0.000 min

Lab File: VN087725.D

Acq: 04 Sep 2025 16:23

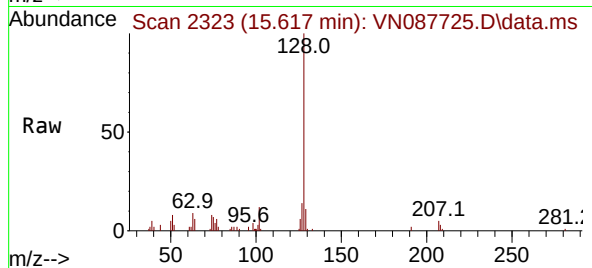
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 4812  |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 74.5  | 0.0   | 118.2 |
| 227       | 71.1  | 0.0   | 139.0 |





#91  
Naphthalene  
Concen: 3.756 ug/l  
RT: 15.617 min Scan# 2322  
Delta R.T. 0.006 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23

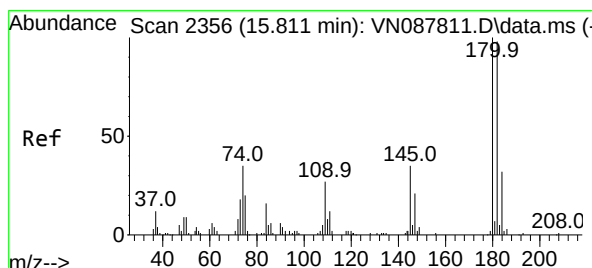
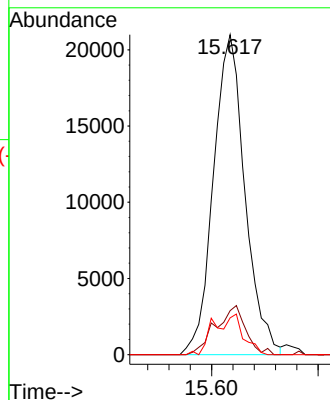
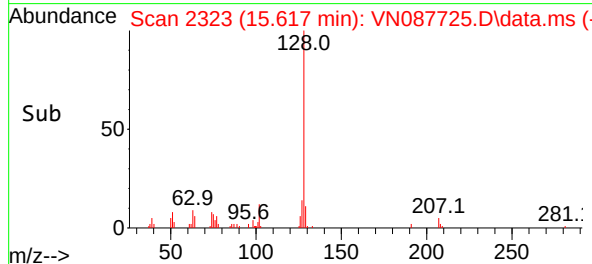
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



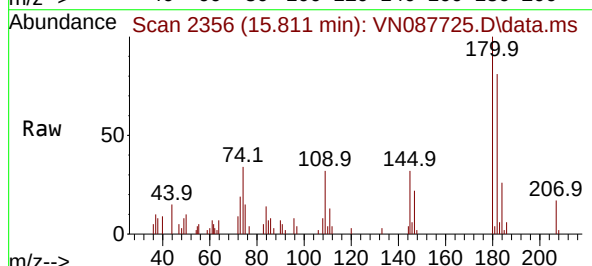
Tgt Ion:128 Resp: 43072  
Ion Ratio Lower Upper  
128 100  
127 10.0 10.2 15.4  
129 6.4 8.3 12.5

Manual Integrations  
APPROVED

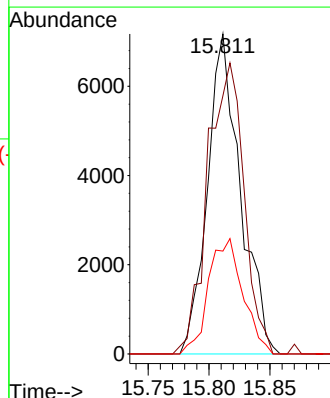
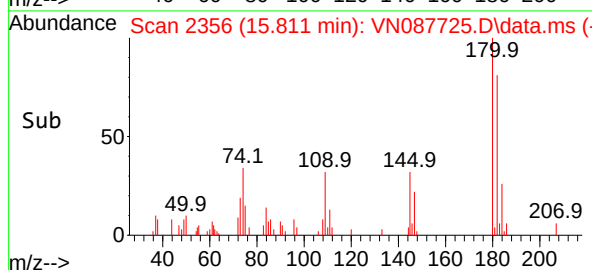
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 4.443 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087725.D  
Acq: 04 Sep 2025 16:23



Tgt Ion:180 Resp: 13520  
Ion Ratio Lower Upper  
180 100  
182 99.9 0.0 186.4  
145 37.6 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087726.D  
 Acq On : 04 Sep 2025 16:44  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Sep 05 02:56:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 42809      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 211459     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 198266     | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 107398     | 27.862   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 92.867%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 96997      | 28.768   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 95.900%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 279660     | 30.528   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.767% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 49949      | 18.465   | ug/l   | 100      |
| 3) Chloromethane             | 2.383          | 50   | 51138      | 18.521   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.542          | 62   | 57095      | 19.294   | ug/l   | 100      |
| 5) Bromomethane              | 2.977          | 94   | 31609      | 19.377   | ug/l   | 100      |
| 6) Chloroethane              | 3.142          | 64   | 38748      | 19.998   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 82866      | 19.315   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.954          | 74   | 33334      | 18.728   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 45396      | 20.339   | ug/l   | 100      |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 44944      | 19.539   | ug/l   | 100      |
| 11) Methyl Iodide            | 4.583          | 142  | 26688      | 14.779   | ug/l   | 100      |
| 12) Methyl Acetate           | 5.018          | 43   | 72499      | 17.391   | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 61563      | 94.456   | ug/l   | 100      |
| 14) Acrylonitrile            | 5.718          | 53   | 149903m    | 83.131   | ug/l   |          |
| 15) Acetone                  | 4.430          | 58   | 45452      | 88.853   | ug/l   | 100      |
| 16) Carbon Disulfide         | 4.706          | 76   | 124233     | 17.652   | ug/l   | 100      |
| 17) Allyl chloride           | 5.018          | 41   | 72506      | 15.970   | ug/l   | 100      |
| 18) Methylene Chloride       | 5.265          | 84   | 50199      | 17.300   | ug/l   | 100      |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 47153m     | 17.562   | ug/l   |          |
| 20) Diisopropyl ether        | 6.659          | 45   | 169008     | 16.339   | ug/l   | 100      |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 93521      | 17.386   | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 7.465          | 96   | 56746      | 17.275   | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 54584      | 72.820   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 158036     | 15.680   | ug/l   | 100      |
| 25) Chloroform               | 7.953          | 83   | 99433      | 17.558   | ug/l   | 100      |
| 26) Cyclohexane              | 8.241          | 56   | 69837      | 16.417   | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 63171      | 18.638   | ug/l   | 100      |
| 30) 2-Butanone               | 7.471          | 43   | 213338     | 86.904   | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 69833      | 16.445   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 81988      | 18.860   | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 65653      | 18.352   | ug/l   | 100      |
| 34) Benzene                  | 8.588          | 78   | 203295     | 18.914   | ug/l   | 100      |
| 35) Methacrylonitrile        | 7.765          | 41   | 48528      | 18.198   | ug/l   | 100      |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 78112      | 18.230   | ug/l   | 100      |
| 37) Trichloroethene          | 9.336          | 130  | 45484      | 19.215   | ug/l   | 100      |
| 38) Methylcyclohexane        | 9.583          | 83   | 67168      | 17.371   | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 52783      | 19.162   | ug/l   | 100      |
| 40) Dibromomethane           | 9.688          | 93   | 38777      | 18.828   | ug/l   | 100      |
| 41) Bromodichloromethane     | 9.871          | 83   | 80402      | 18.694   | ug/l   | 100      |
| 42) Vinyl Acetate            | 6.589          | 43   | 706403     | 87.467   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087726.D  
 Acq On : 04 Sep 2025 16:44  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Sep 05 02:56:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 91142    | 18.839  | ug/l  | 100      |
| 44) Isopropyl Acetate         | 8.677  | 43   | 140215   | 17.422  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 9.677  | 88   | 18742    | 363.739 | ug/l  | 100      |
| 46) Methyl methacrylate       | 9.665  | 41   | 62431    | 16.572  | ug/l  | 100      |
| 47) n-amyl Acetate            | 12.671 | 43   | 73018m   | 15.604  | ug/l  |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 78438    | 17.108  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 10.288 | 75   | 79831    | 17.252  | ug/l  | 100      |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 49901    | 19.075  | ug/l  | 100      |
| 51) Ethyl methacrylate        | 10.853 | 69   | 72347    | 16.207  | ug/l  | 100      |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 87839    | 18.729  | ug/l  | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 51982    | 17.456  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 51152    | 18.556  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 225137   | 93.348  | ug/l  | 100      |
| 56) Bromoform                 | 12.559 | 173  | 34081    | 17.274  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 432636   | 88.189  | ug/l  | 100      |
| 59) 2-Hexanone                | 11.177 | 43   | 276879   | 83.339  | ug/l  | 100      |
| 61) Tetrachloroethene         | 11.082 | 164  | 36848    | 19.253  | ug/l  | 100      |
| 62) Toluene                   | 10.612 | 91   | 221067   | 18.530  | ug/l  | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 132910   | 18.156  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 46772    | 18.150  | ug/l  | 100      |
| 66) Ethyl Benzene             | 11.941 | 91   | 230526   | 17.532  | ug/l  | 100      |
| 67) m/p-Xylenes               | 12.047 | 106  | 169788   | 35.082  | ug/l  | 100      |
| 68) o-Xylene                  | 12.377 | 106  | 84505    | 17.701  | ug/l  | 100      |
| 69) Styrene                   | 12.388 | 104  | 142280   | 17.520  | ug/l  | 100      |
| 70) Isopropylbenzene          | 12.676 | 105  | 205573   | 17.117  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 79973    | 19.086  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 12.971 | 75   | 84570m   | 21.633  | ug/l  |          |
| 73) Bromobenzene              | 12.953 | 156  | 51969    | 18.305  | ug/l  | 100      |
| 74) n-propylbenzene           | 13.012 | 91   | 266688   | 17.651  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 164311   | 17.679  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 178698   | 17.339  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 24084    | 16.407  | ug/l  | 100      |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 166605   | 17.614  | ug/l  | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 149770   | 17.250  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 185683   | 17.861  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 13.594 | 105  | 221613   | 17.504  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 179893   | 17.164  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 104338   | 19.181  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 102608   | 18.737  | ug/l  | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 169464   | 16.646  | ug/l  | 100      |
| 86) Hexachloroethane          | 14.312 | 117  | 37845    | 18.193  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 96835    | 18.773  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 18320    | 17.534  | ug/l  | 100      |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 52849    | 17.337  | ug/l  | 100      |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 19260    | 16.481  | ug/l  | 100      |
| 91) Naphthalene               | 15.612 | 128  | 190673   | 16.595  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 52849    | 17.337  | ug/l  | 100      |

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

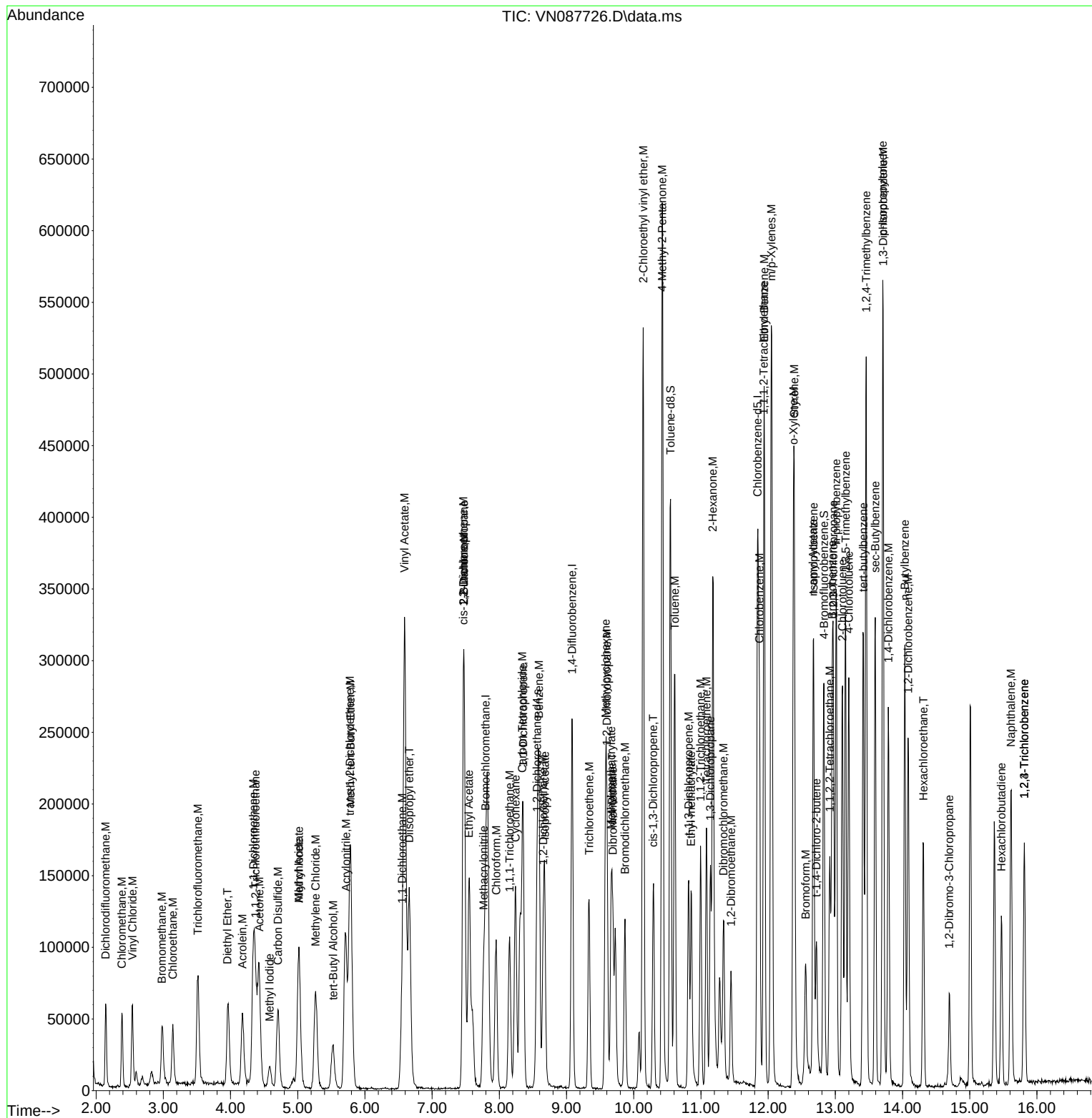
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 Acq On : 04 Sep 2025 16:44  
 Operator : JC\MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

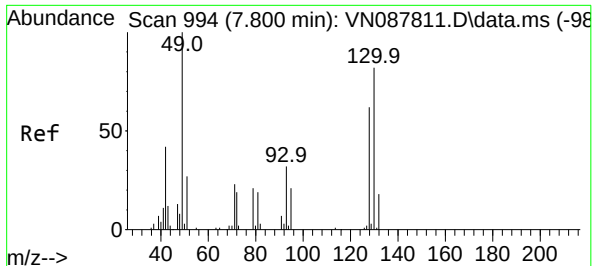
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:56:32 2025  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration







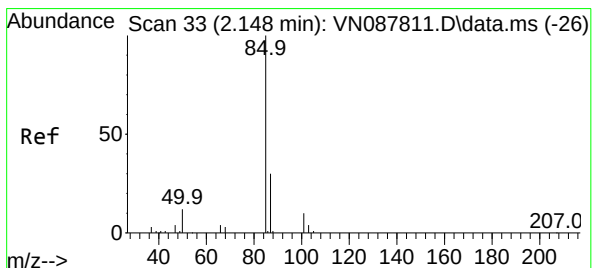
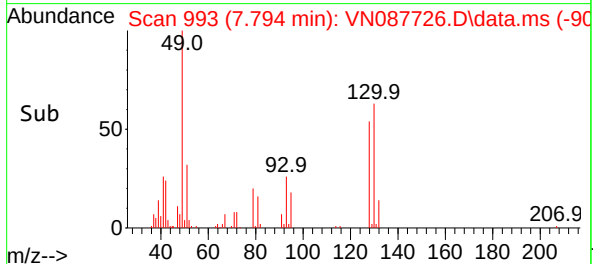
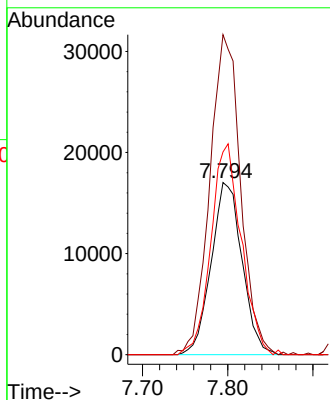
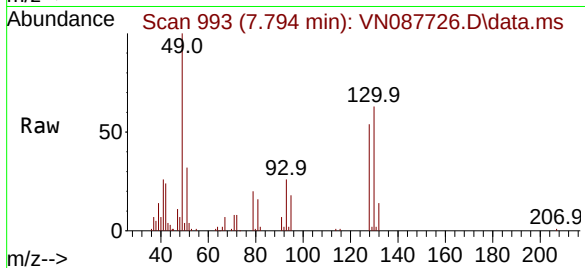
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:128 Resp: 42809  
Ion Ratio Lower Upper  
128 100  
49 185.7 0.0 464.3  
130 120.2 0.0 300.5

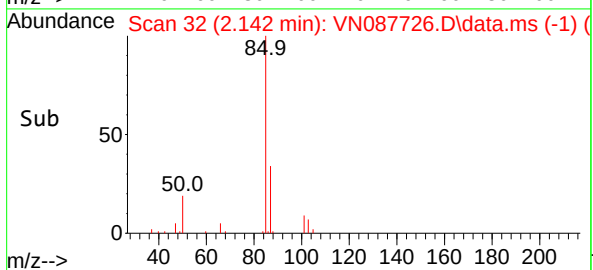
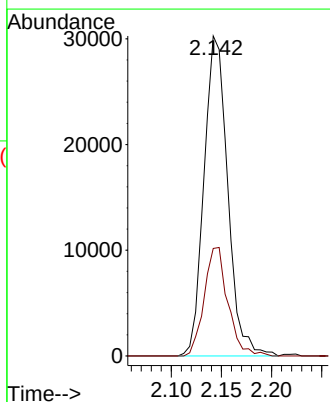
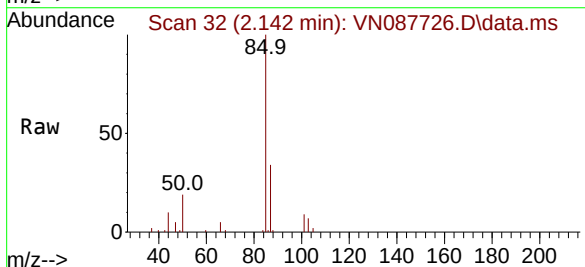
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

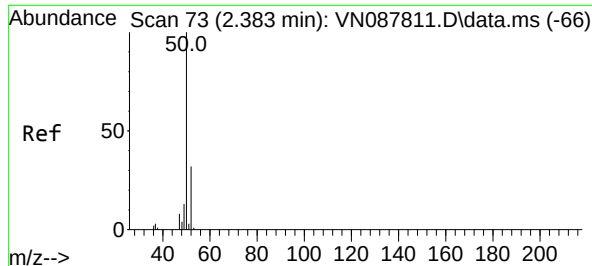


#2  
Dichlorodifluoromethane  
Concen: 18.465 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 85 Resp: 49949  
Ion Ratio Lower Upper  
85 100  
87 33.6 16.8 50.4







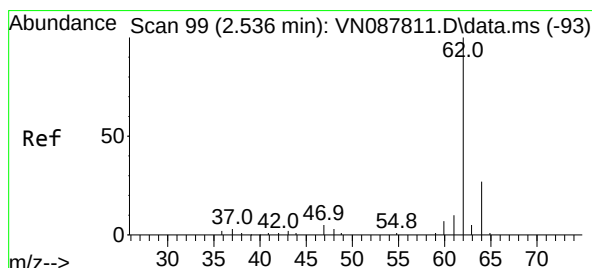
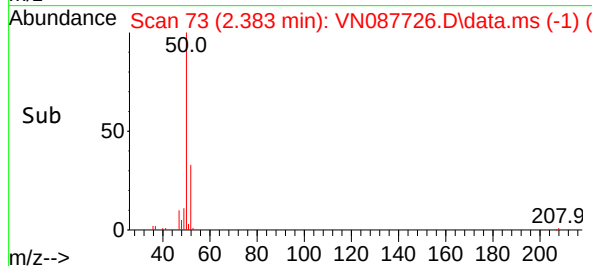
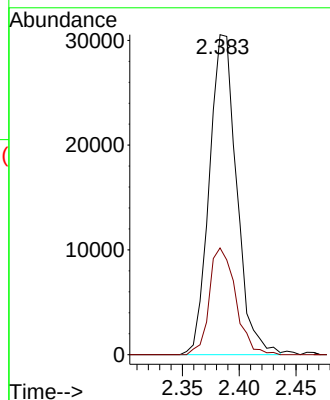
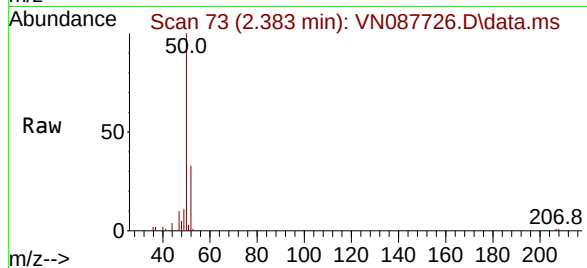
#3  
Chloromethane  
Concen: 18.521 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 50 Resp: 51138  
Ion Ratio Lower Upper  
50 100  
52 33.3 26.6 40.0

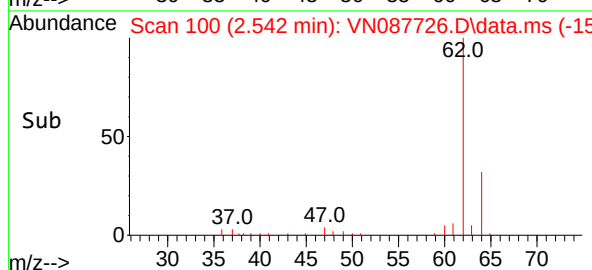
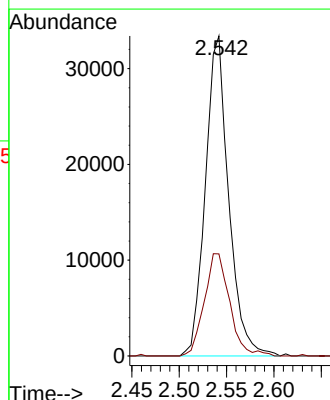
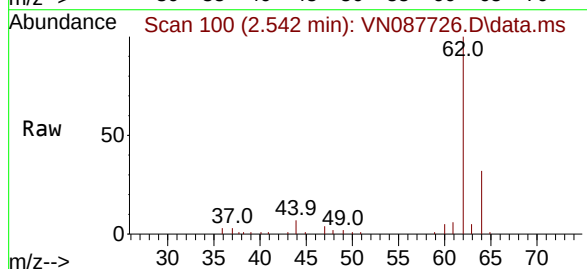
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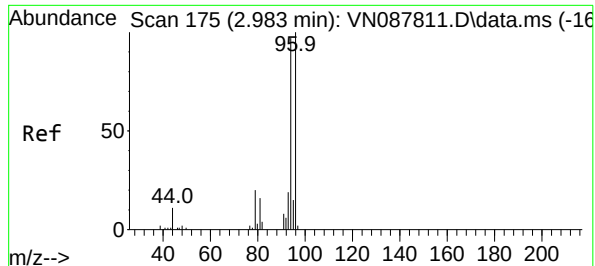
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 19.294 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 62 Resp: 57095  
Ion Ratio Lower Upper  
62 100  
64 31.9 25.5 38.3





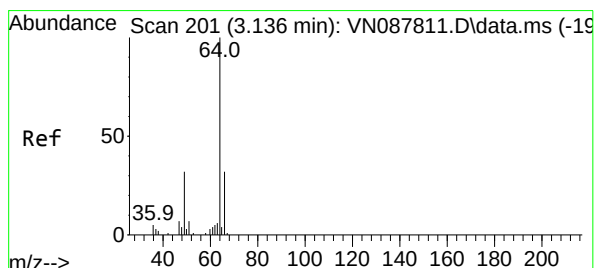
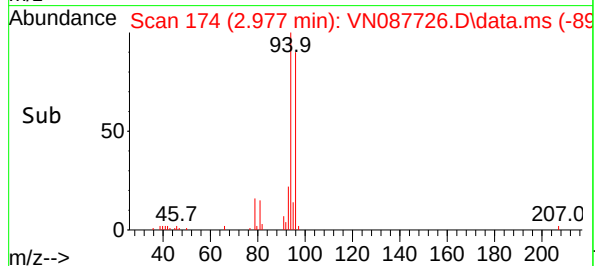
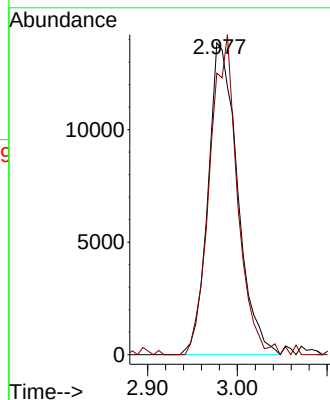
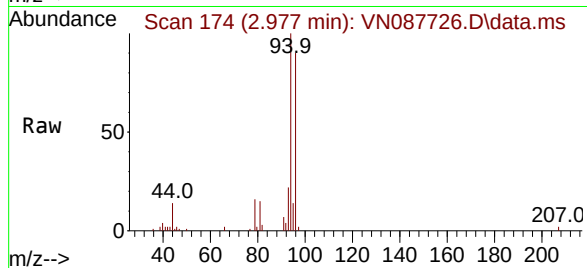
#5  
Bromomethane  
Concen: 19.377 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 94 Resp: 31609  
Ion Ratio Lower Upper  
94 100  
96 90.3 72.2 108.4

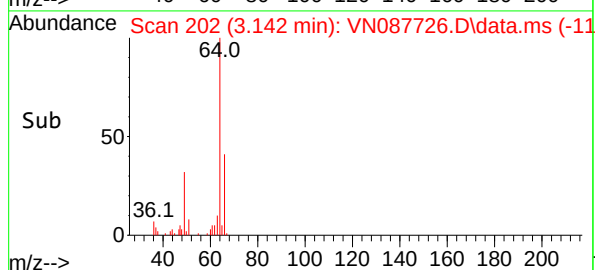
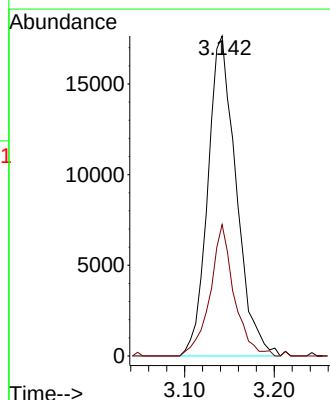
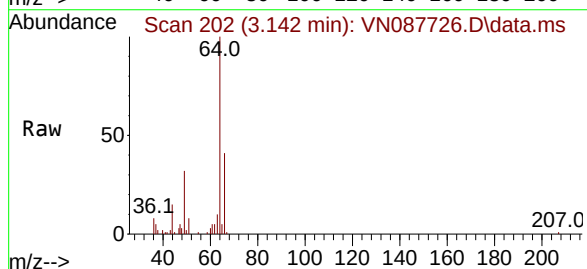
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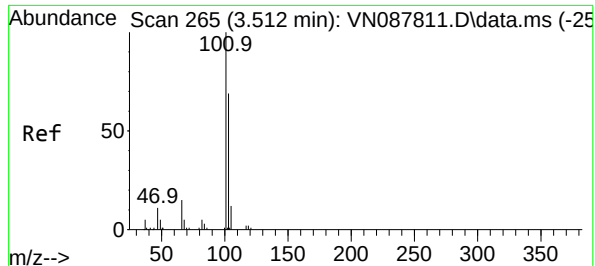
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 19.998 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

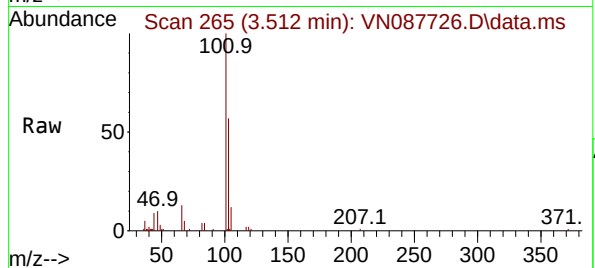
Tgt Ion: 64 Resp: 38748  
Ion Ratio Lower Upper  
64 100  
66 41.0 32.8 49.2





#7  
Trichlorofluoromethane  
Concen: 19.315 ug/l  
RT: 3.512 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

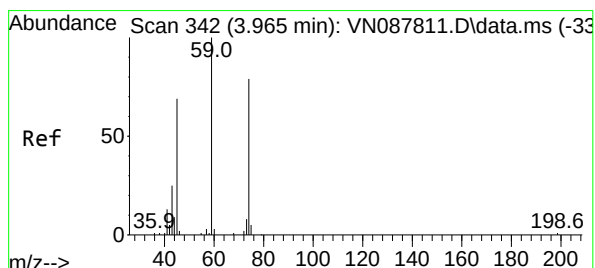
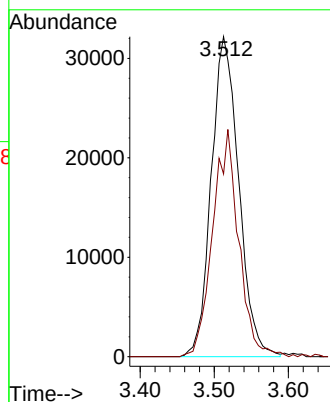
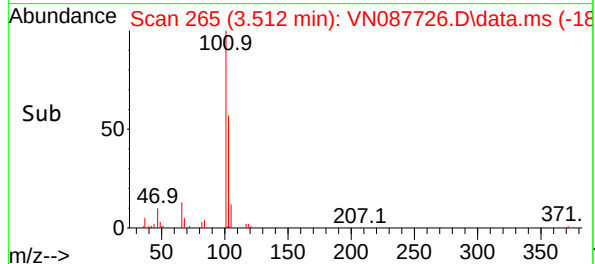
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion:101 Resp: 82860  
Ion Ratio Lower Upper  
101 100  
103 57.1 45.7 68.5

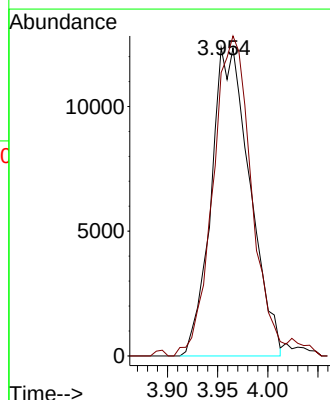
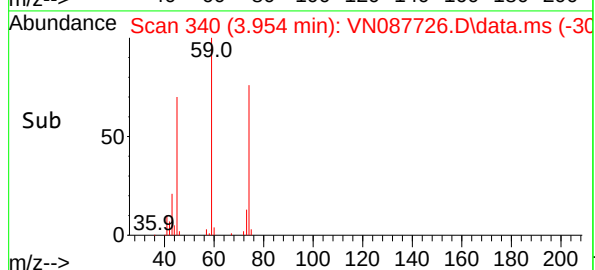
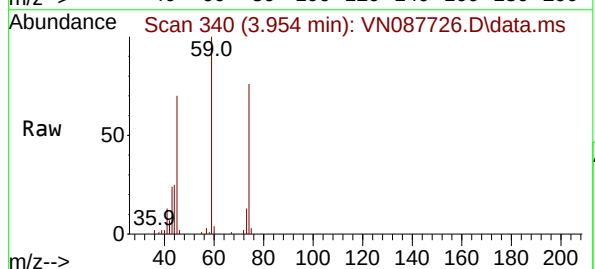
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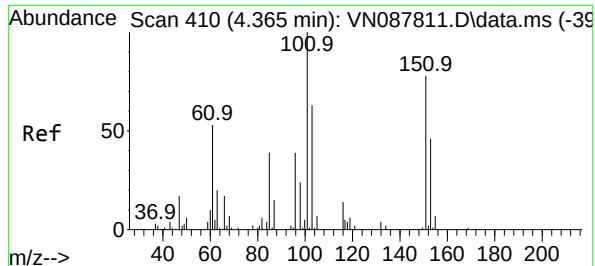
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 18.728 ug/l  
RT: 3.954 min Scan# 340  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 74 Resp: 33334  
Ion Ratio Lower Upper  
74 100  
45 102.1 20.4 183.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.339 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

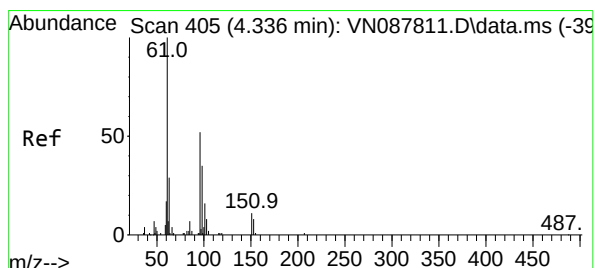
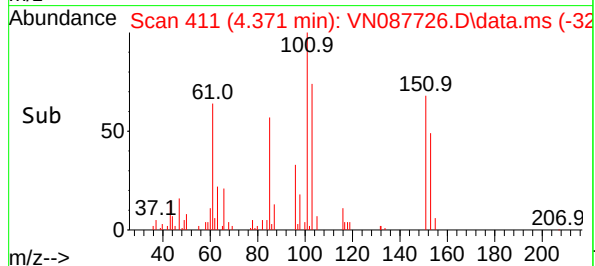
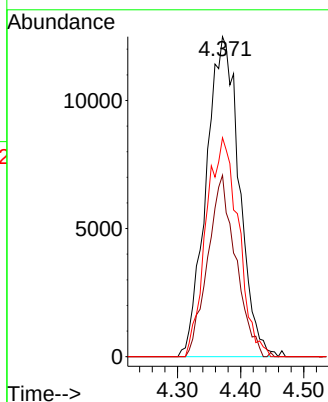
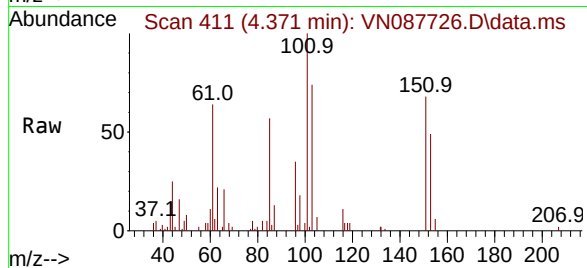
VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 4539  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 47.8  | 0.0   | 95.6  |
| 151      | 42.9  | 0.0   | 85.8  |

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Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 19.539 ug/l

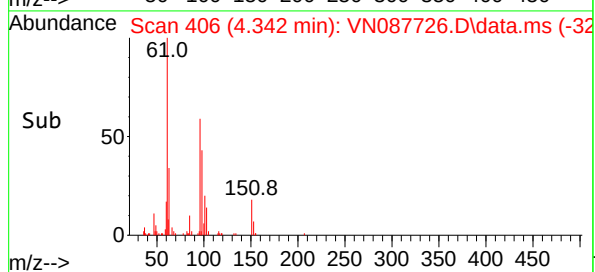
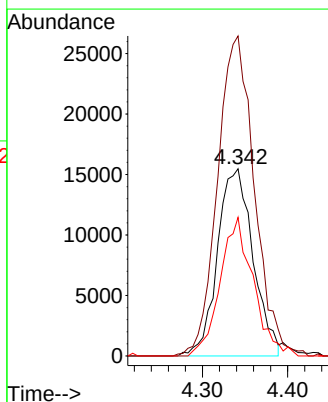
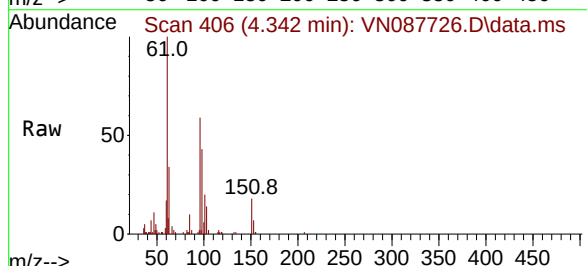
RT: 4.342 min Scan# 406

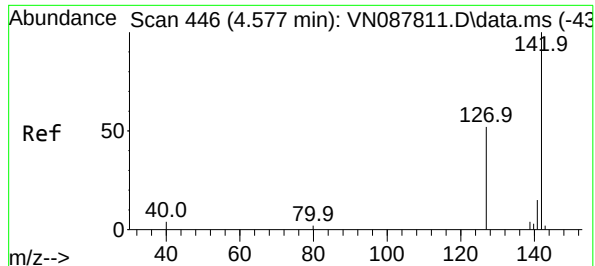
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

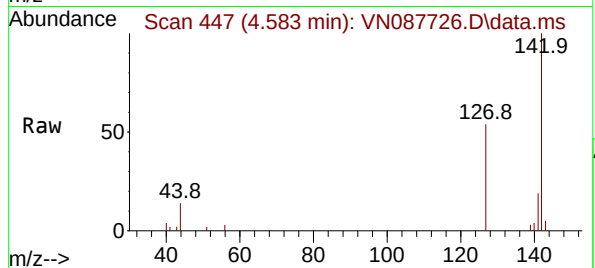
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 44944 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 169.9 | 135.9 | 203.9 |
| 98       | 74.0  | 59.2  | 88.8  |





#11  
Methyl Iodide  
Concen: 14.779 ug/l  
RT: 4.583 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

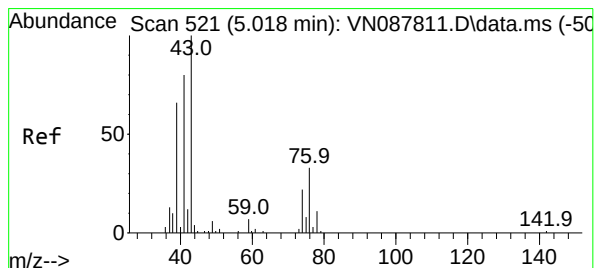
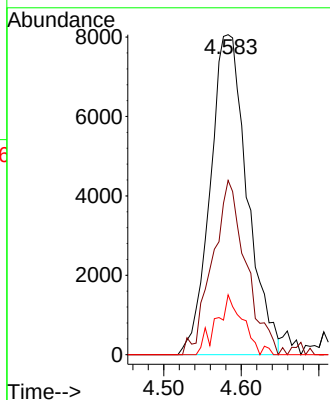
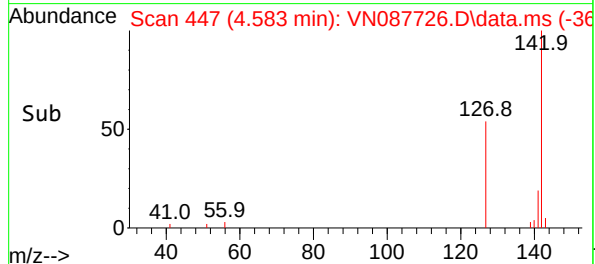
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 142 Resp: 2668  
Ion Ratio Lower Upper  
142 100  
127 55.8 27.9 83.7  
141 19.2 9.6 28.8

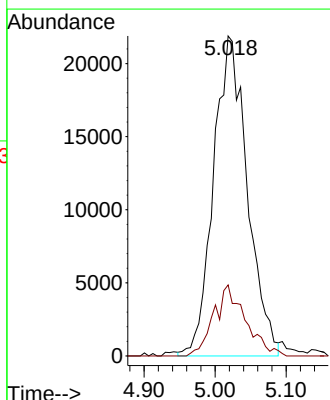
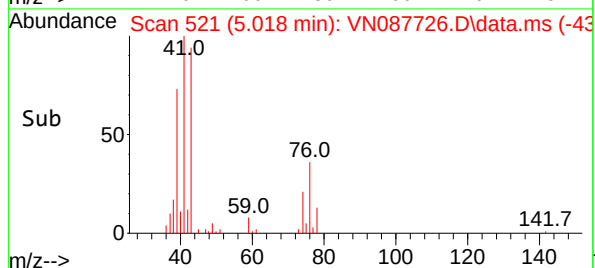
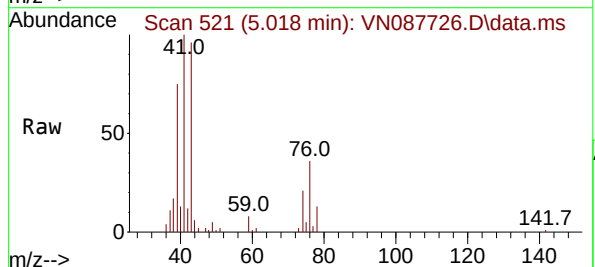
Manual Integrations  
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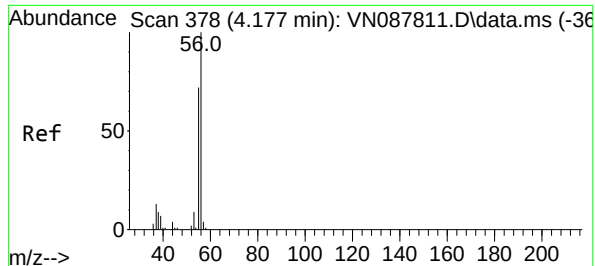
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#12  
Methyl Acetate  
Concen: 17.391 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 43 Resp: 72499  
Ion Ratio Lower Upper  
43 100  
74 21.9 17.5 26.3





#13

Acrolein

Concen: 94.456 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 6156

Ion Ratio Lower Upper

56 100

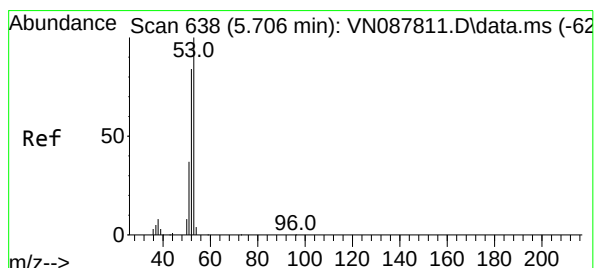
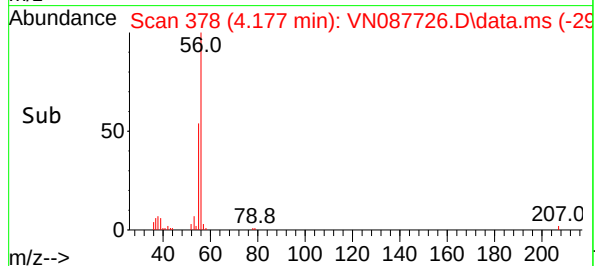
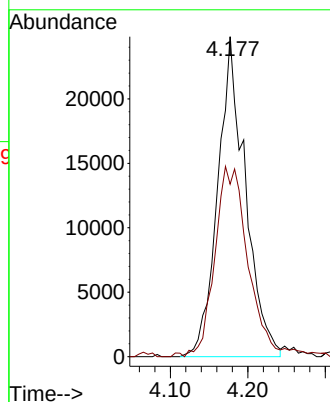
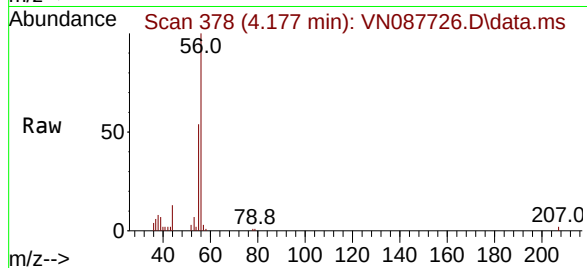
55 35.7 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 83.131 ug/l m

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

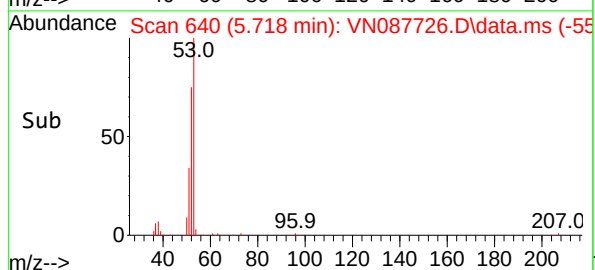
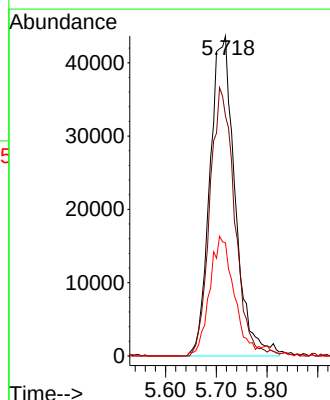
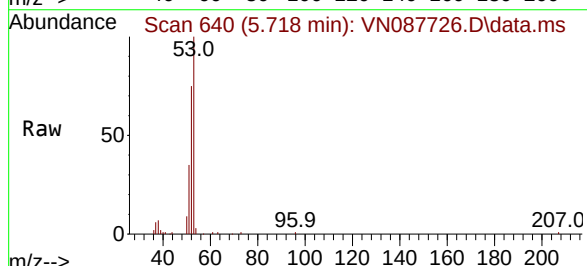
Tgt Ion: 53 Resp: 149903

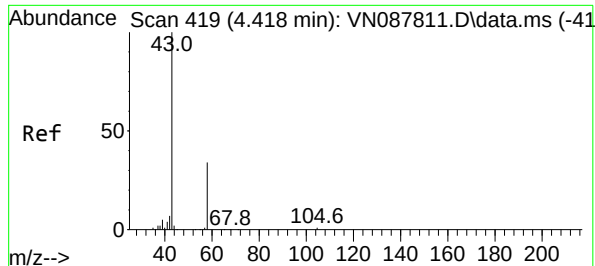
Ion Ratio Lower Upper

53 100

52 82.3 40.9 122.7

51 36.3 18.1 54.1





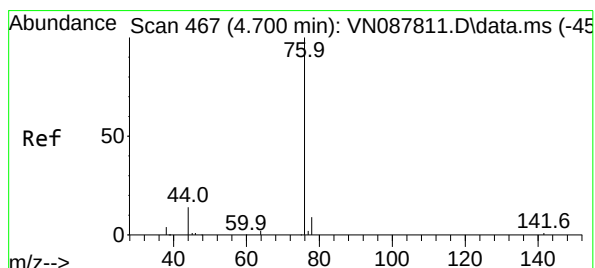
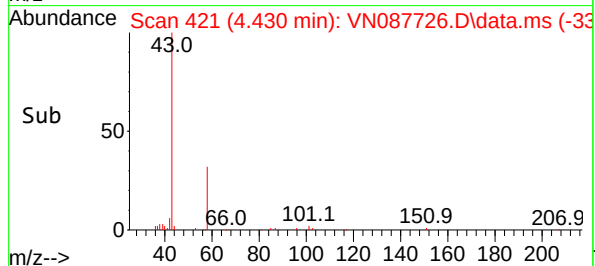
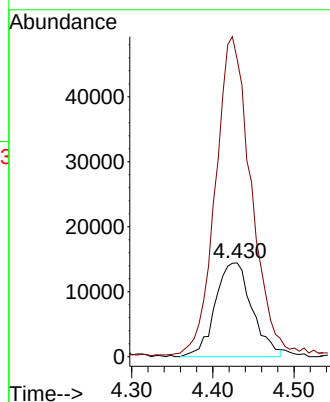
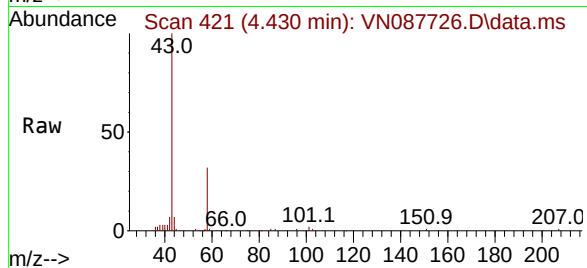
#15  
Acetone  
Concen: 88.853 ug/l  
RT: 4.430 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 58 Resp: 45452  
Ion Ratio Lower Upper  
58 100  
43 313.3 250.6 376.0

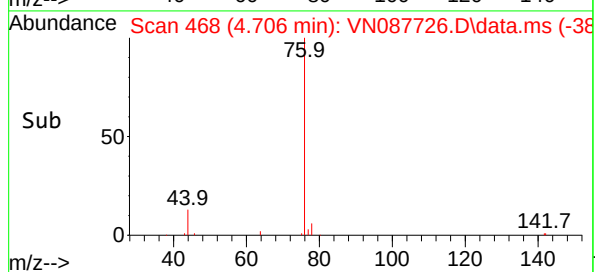
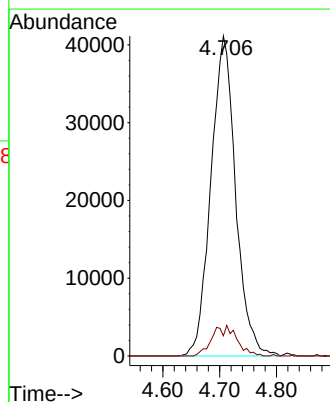
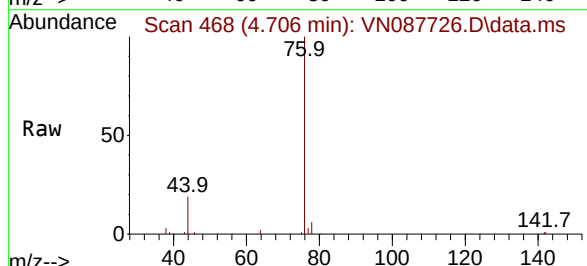
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APPROVED

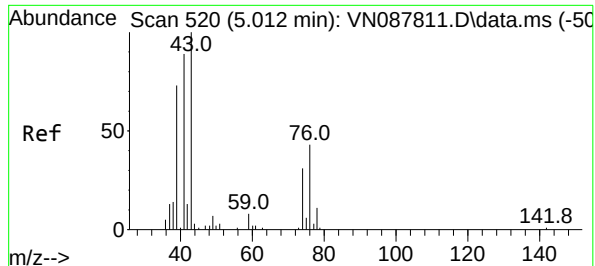
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#16  
Carbon Disulfide  
Concen: 17.652 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 76 Resp: 124233  
Ion Ratio Lower Upper  
76 100  
78 6.3 5.0 7.6





#17

Allyl chloride

Concen: 15.970 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

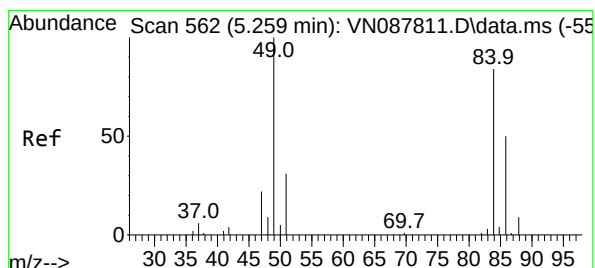
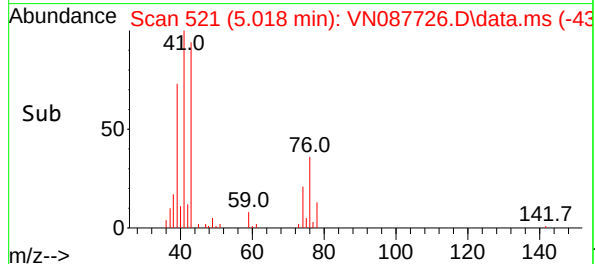
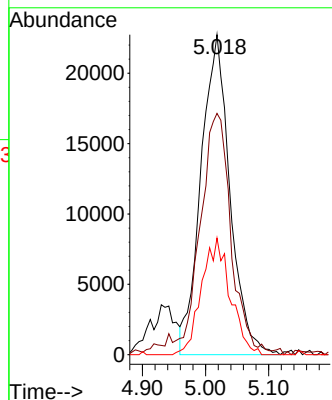
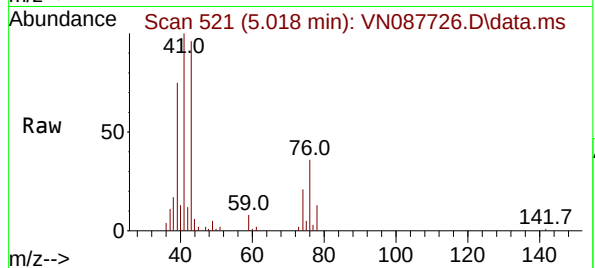
ClientSampleId :

VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 72500 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 73.4  | 36.7  | 110.1 |
| 76       | 36.5  | 18.3  | 54.8  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 17.300 ug/l

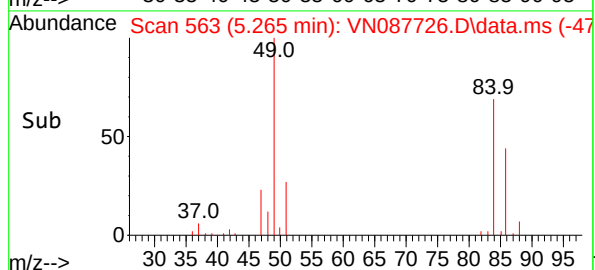
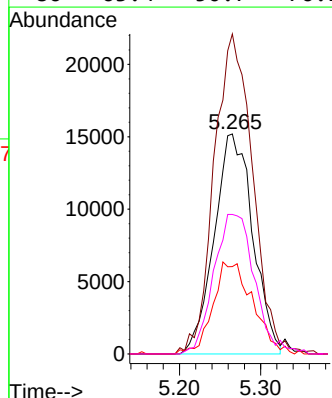
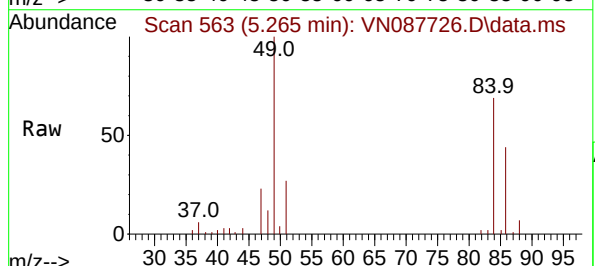
RT: 5.265 min Scan# 563

Delta R.T. 0.000 min

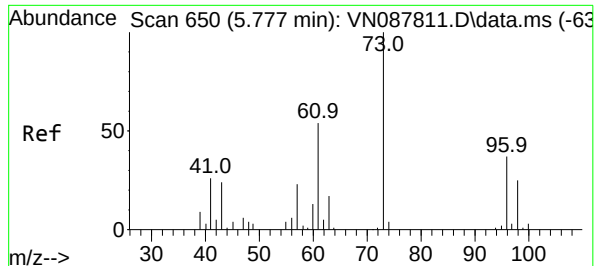
Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 50199 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 142.6 | 114.1 | 171.1 |
| 51       | 37.8  | 30.2  | 45.4  |
| 86       | 63.4  | 50.7  | 76.1  |







#19

trans-1,2-Dichloroethene

Concen: 17.562 ug/l m

RT: 5.777 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 4715

Ion Ratio Lower Upper

96 100

61 133.0 106.4 159.6

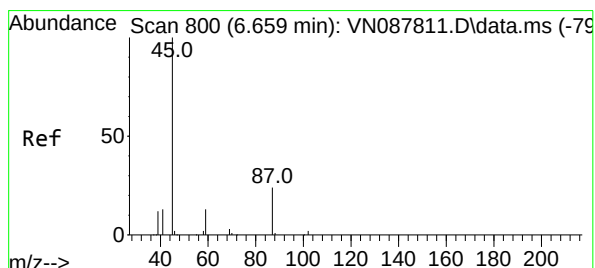
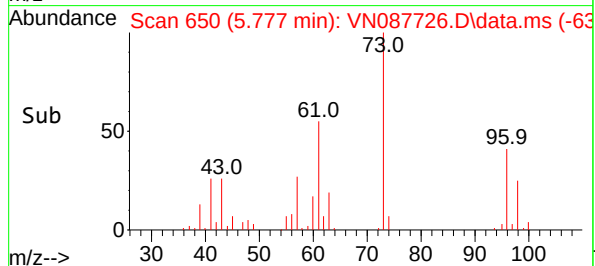
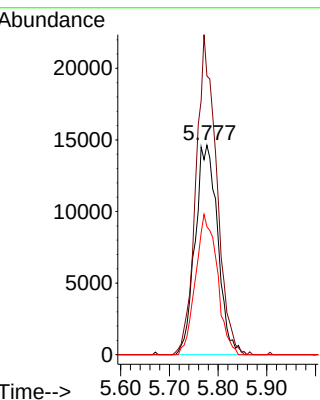
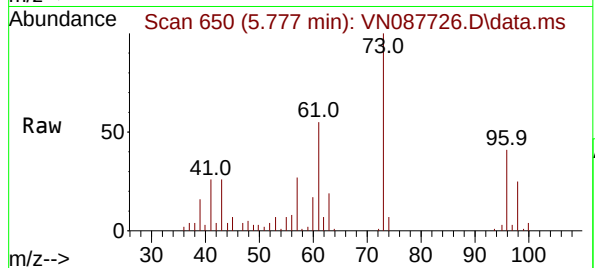
98 61.1 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 16.339 ug/l

RT: 6.659 min Scan# 800

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Tgt Ion: 45 Resp: 169008

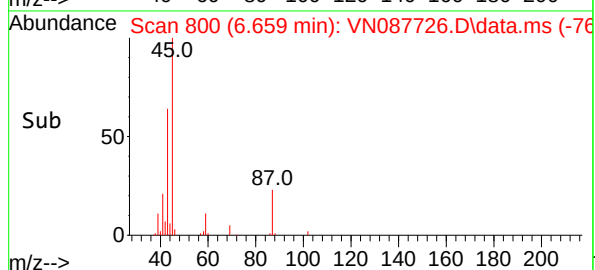
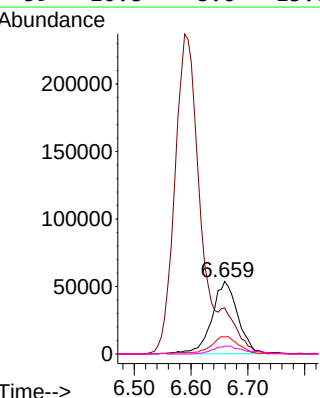
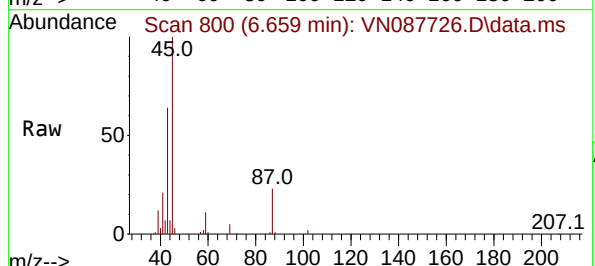
Ion Ratio Lower Upper

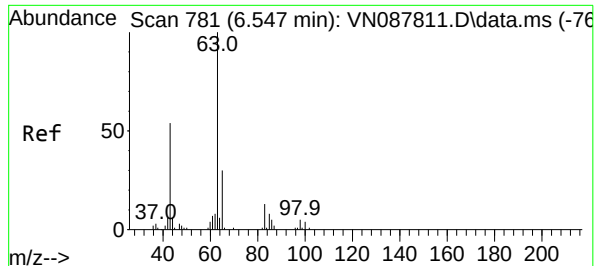
45 100

43 61.9 49.5 74.3

87 23.5 18.8 28.2

59 10.8 8.6 13.0





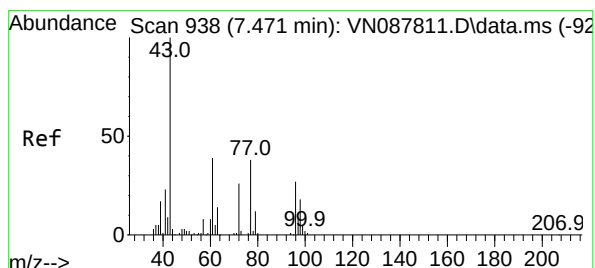
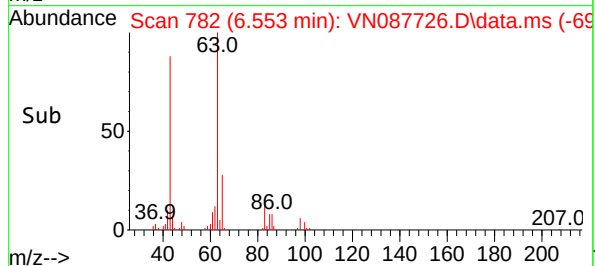
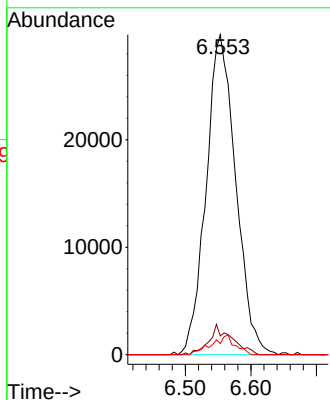
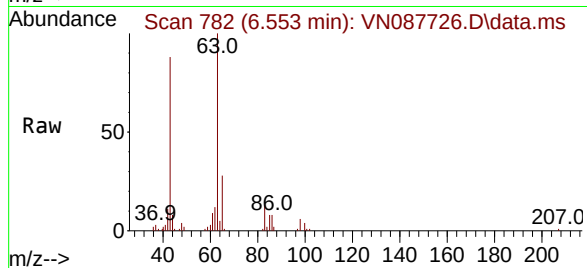
#21  
1,1-Dichloroethane  
Concen: 17.386 ug/l  
RT: 6.553 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 63 Resp: 9352  
Ion Ratio Lower Upper  
63 100  
98 5.9 2.9 8.8  
100 3.5 1.8 5.3

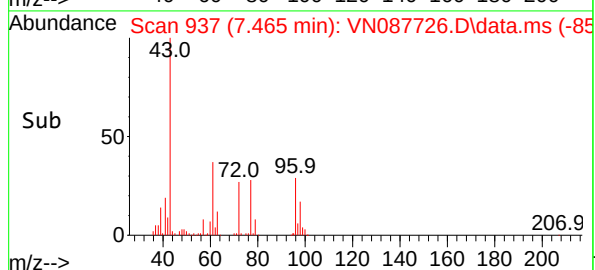
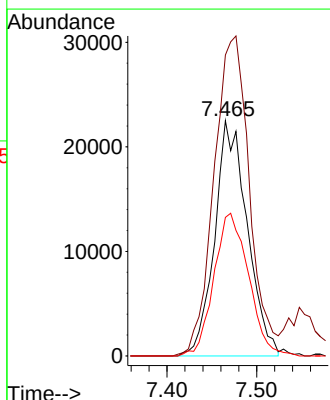
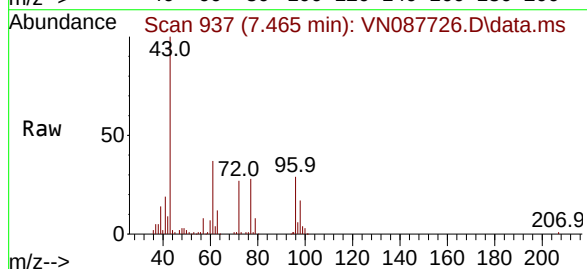
Manual Integrations  
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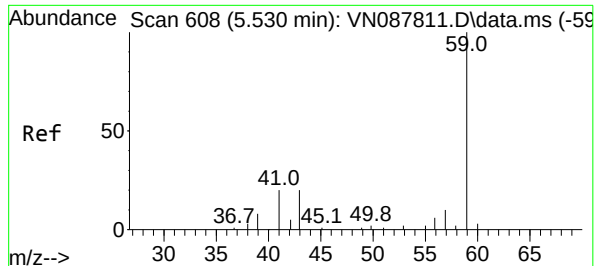
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22  
cis-1,2-Dichloroethene  
Concen: 17.275 ug/l  
RT: 7.465 min Scan# 937  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 96 Resp: 56746  
Ion Ratio Lower Upper  
96 100  
61 147.7 118.2 177.2  
98 64.5 51.6 77.4





#23

tert-Butyl Alcohol

Concen: 72.820 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 54584

Ion Ratio Lower Upper

59 100

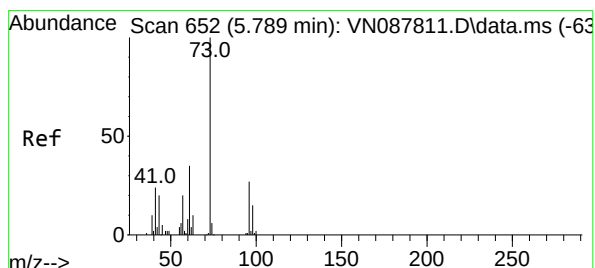
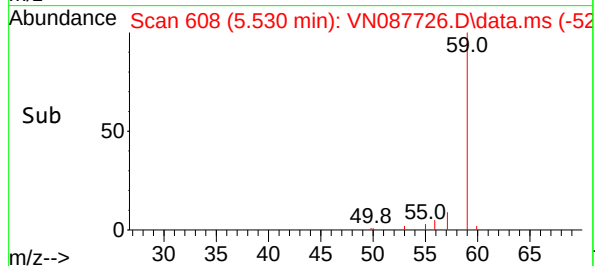
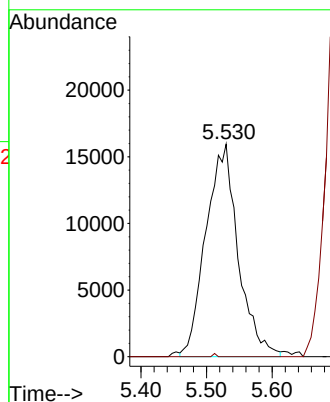
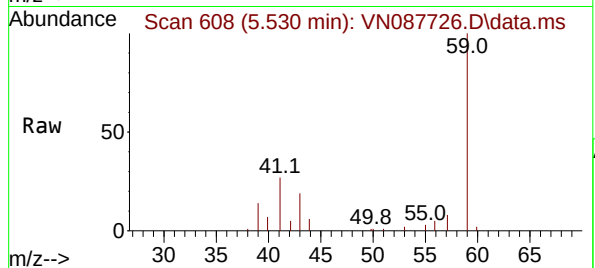
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#24

Methyl tert-Butyl Ether

Concen: 15.680 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN087726.D

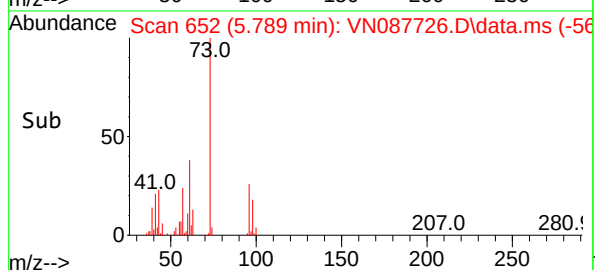
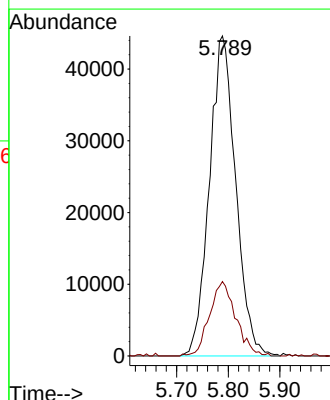
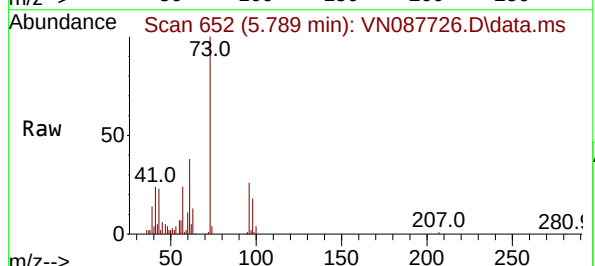
Acq: 04 Sep 2025 16:44

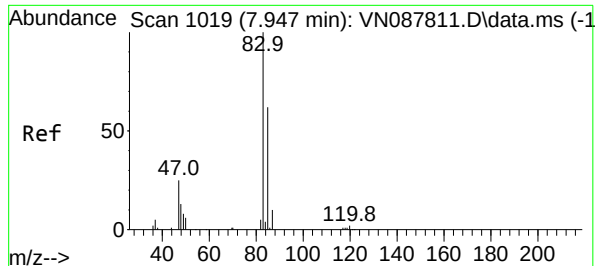
Tgt Ion: 73 Resp: 158036

Ion Ratio Lower Upper

73 100

43 21.0 16.8 25.2





#25

Chloroform

Concen: 17.558 ug/l

RT: 7.953 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 9943

Ion Ratio Lower Upper

83 100

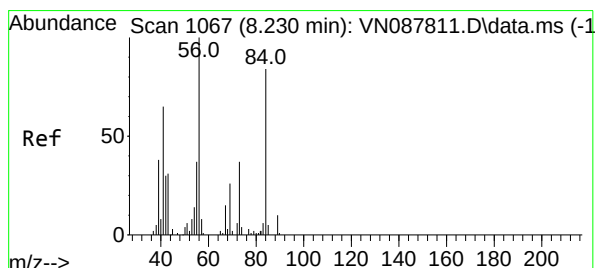
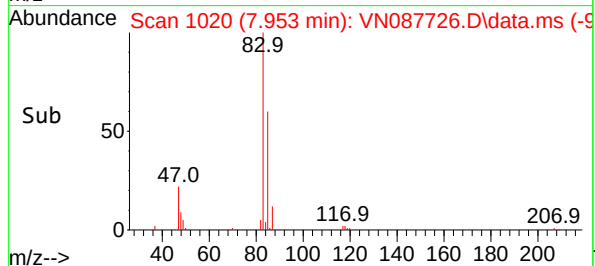
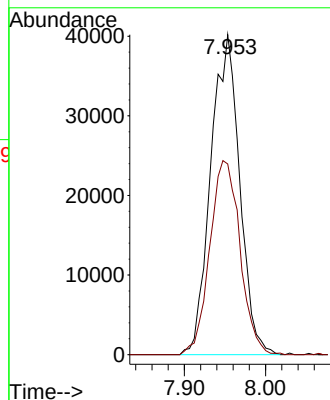
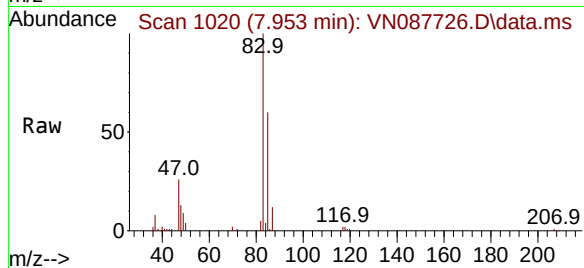
85 59.6 47.7 71.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 16.417 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

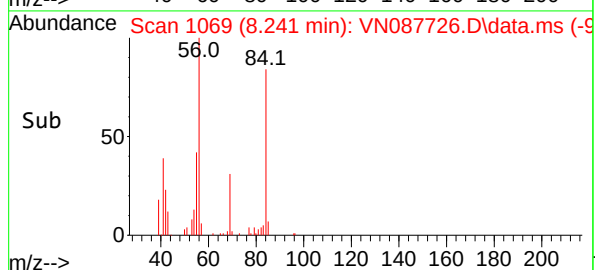
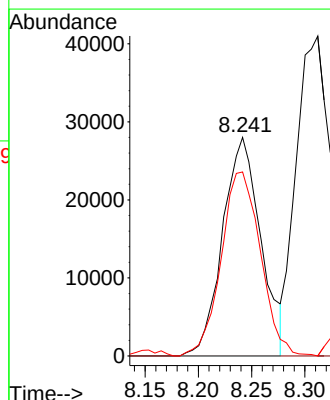
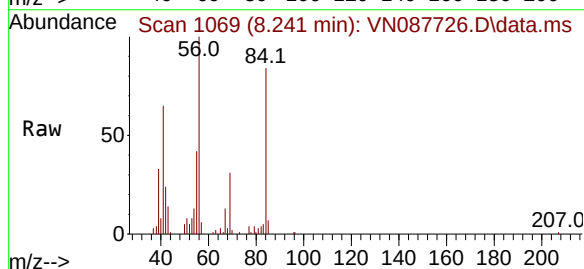
Tgt Ion: 56 Resp: 69837

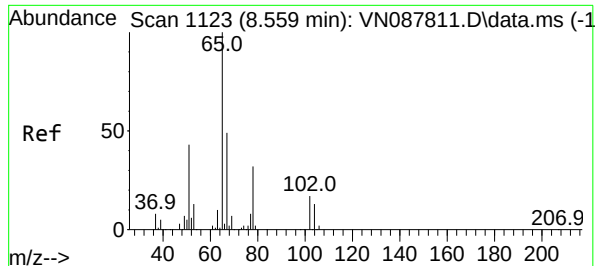
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.8 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 27.862 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 107398

Ion Ratio Lower Upper

65 100

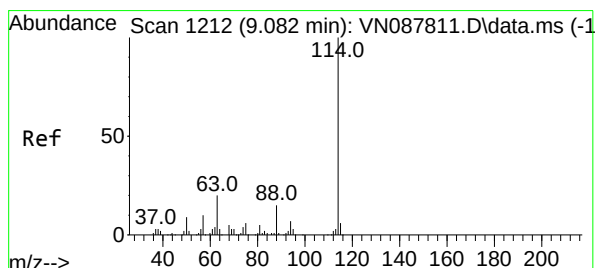
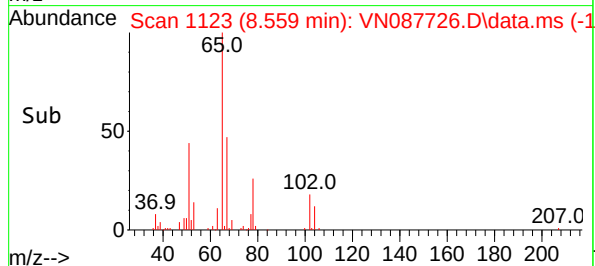
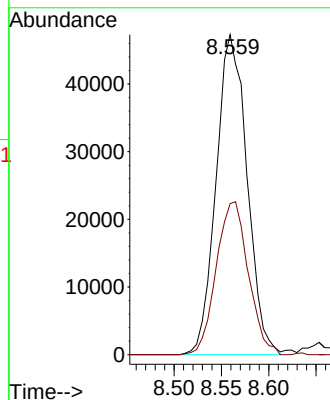
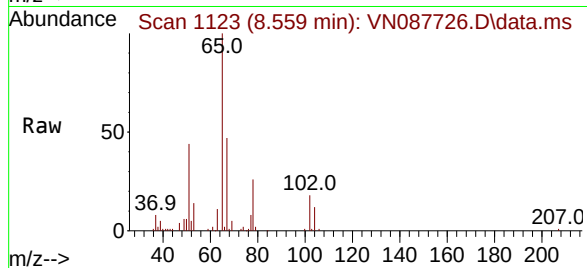
67 49.5 39.6 59.4

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: VN087726.D

Acq: 04 Sep 2025 16:44

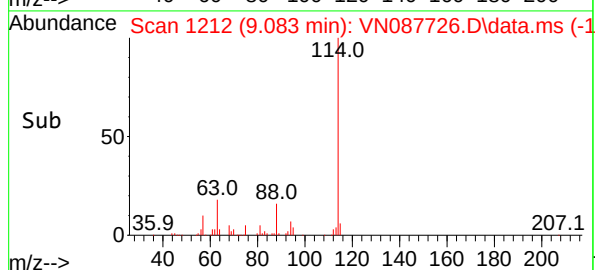
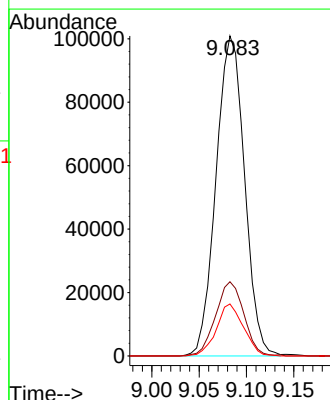
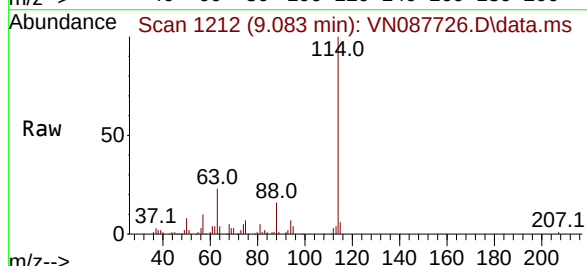
Tgt Ion:114 Resp: 211459

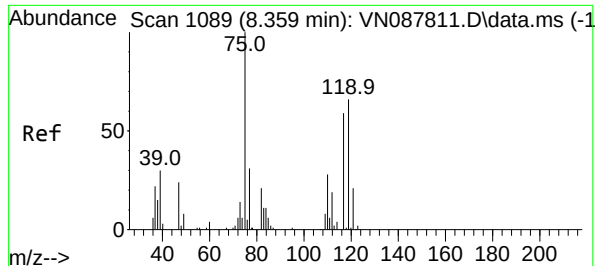
Ion Ratio Lower Upper

114 100

63 22.9 18.3 27.5

88 15.5 12.4 18.6





#29

1,1-Dichloropropene

Concen: 18.638 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

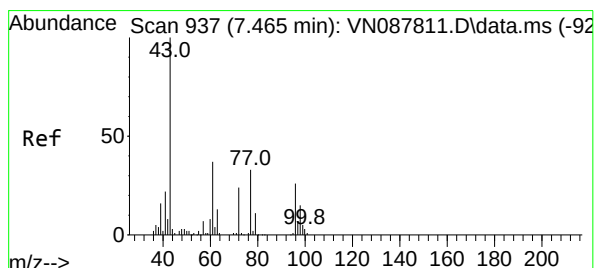
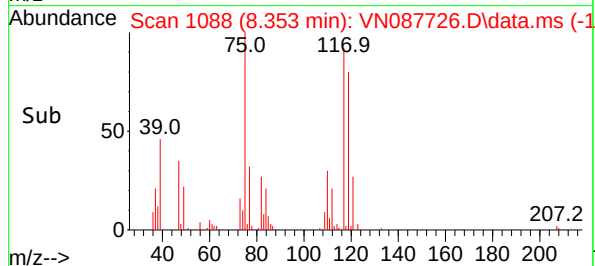
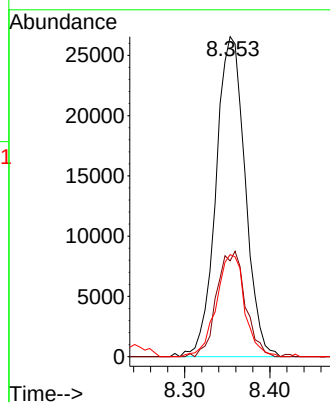
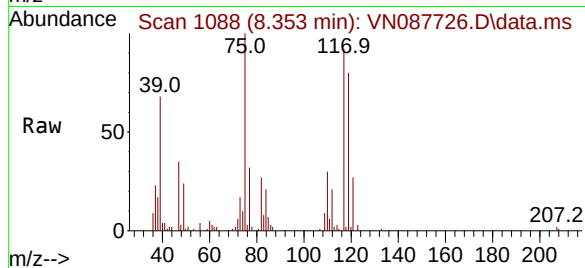
VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6317  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 32.2  | 0.0   | 64.4  |
| 77       | 31.1  | 0.0   | 62.2  |

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 86.904 ug/l

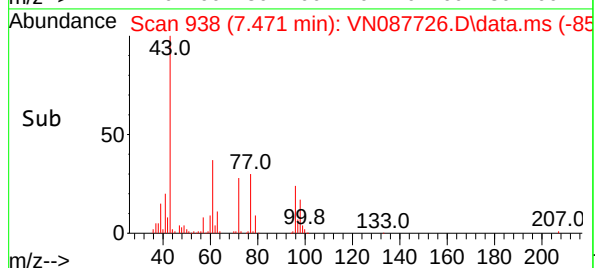
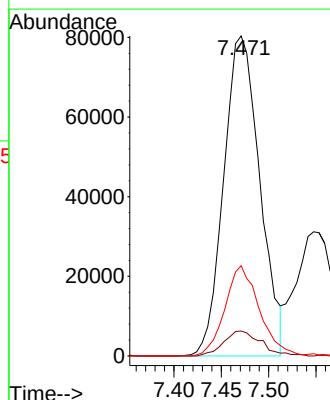
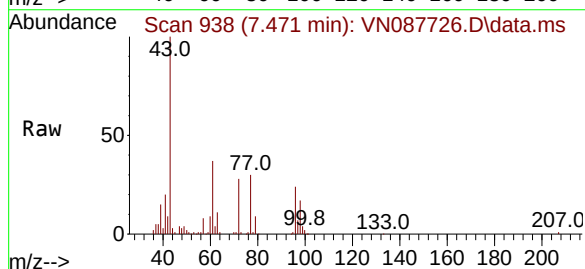
RT: 7.471 min Scan# 938

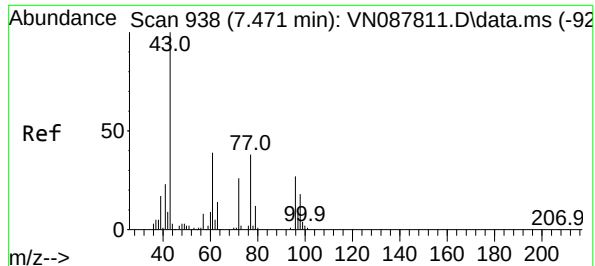
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 213338 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 57       | 7.9   | 6.3   | 9.5    |
| 72       | 26.8  | 21.4  | 32.2   |





#31

2,2-Dichloropropane

Concen: 16.445 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 77 Resp: 6983

Ion Ratio Lower Upper

77 100

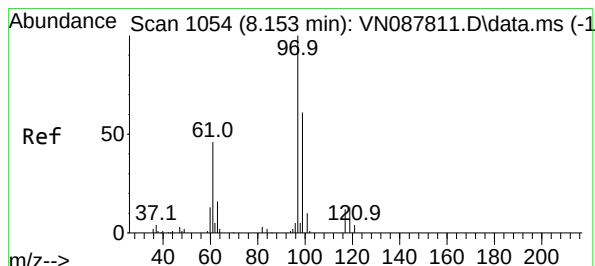
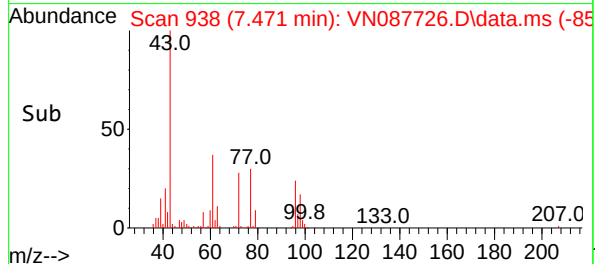
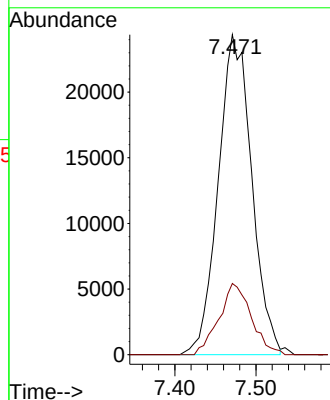
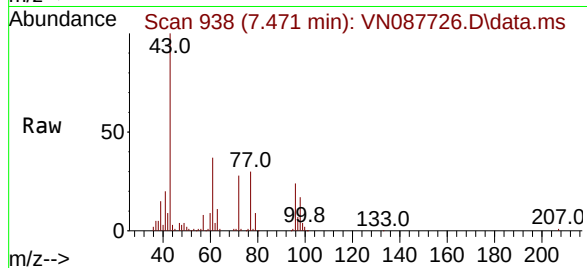
97 21.4 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#32

1,1,1-Trichloroethane

Concen: 18.860 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

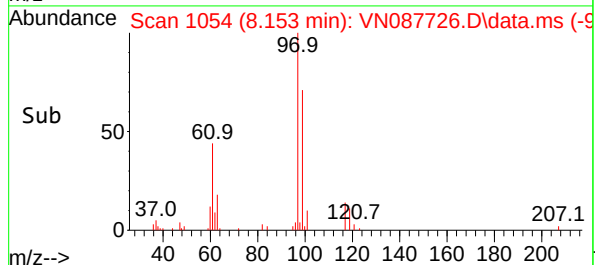
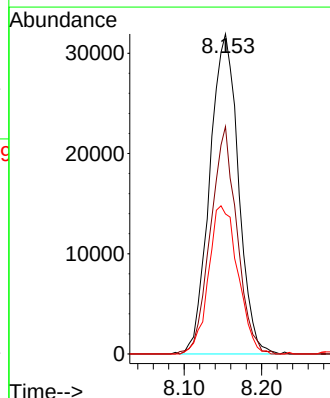
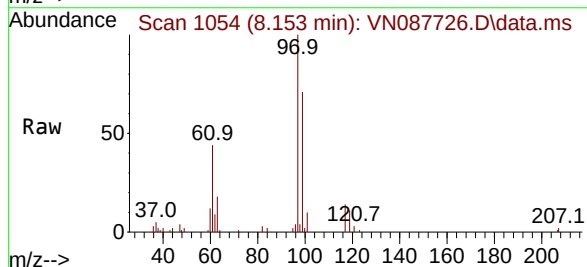
Tgt Ion: 97 Resp: 81988

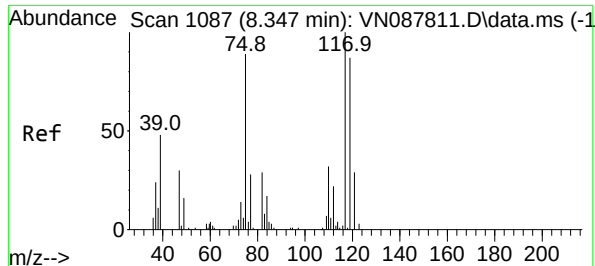
Ion Ratio Lower Upper

97 100

99 65.3 52.2 78.4

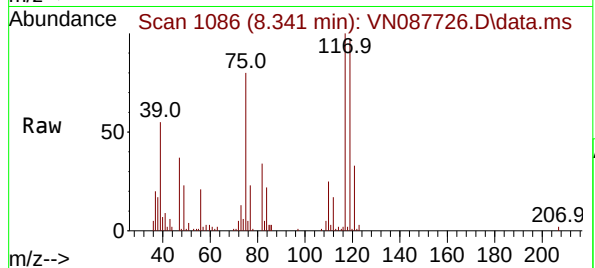
61 47.4 37.9 56.9





#33  
Carbon Tetrachloride  
Concen: 18.352 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

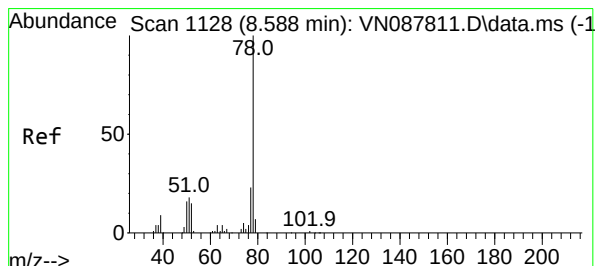
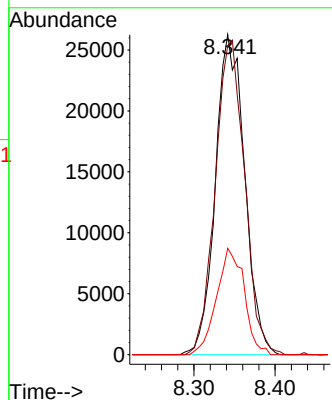
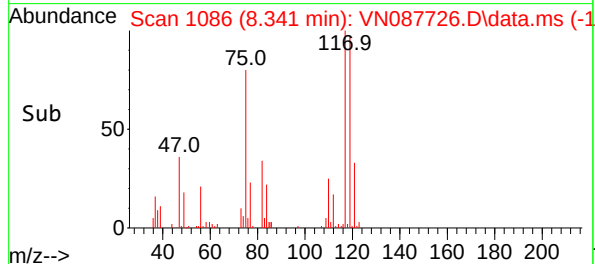
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 117 Resp: 6565  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.3 115.9  
121 33.2 26.6 39.8

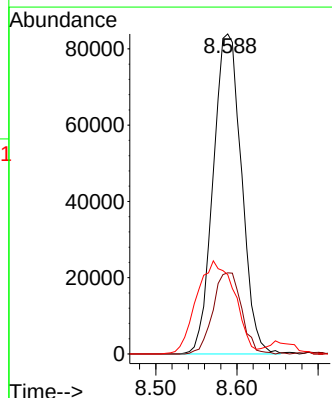
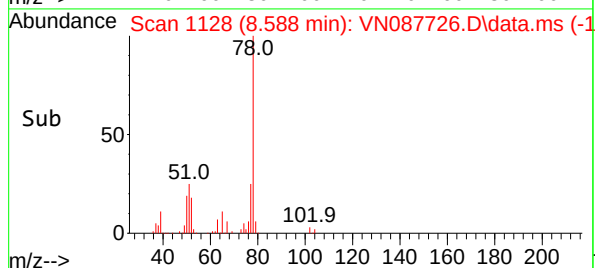
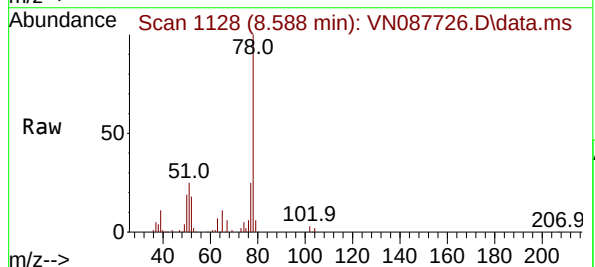
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

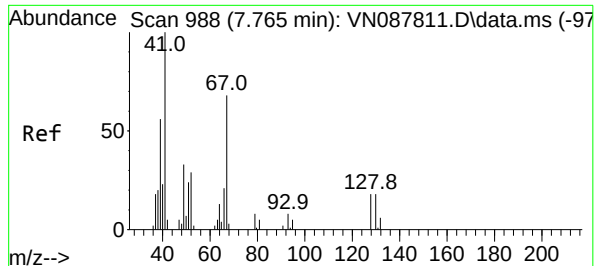


#34  
Benzene  
Concen: 18.914 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 78 Resp: 203295  
Ion Ratio Lower Upper  
78 100  
77 25.4 20.3 30.5  
51 22.5 18.0 27.0







#35

Methacrylonitrile

Concen: 18.198 ug/l

RT: 7.765 min Scan# 988

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

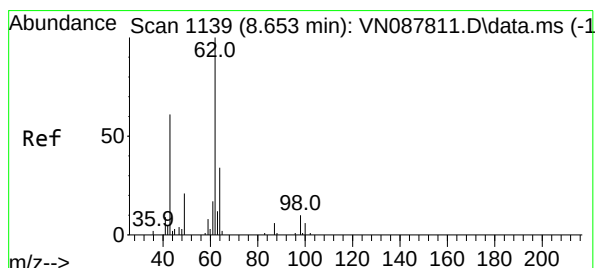
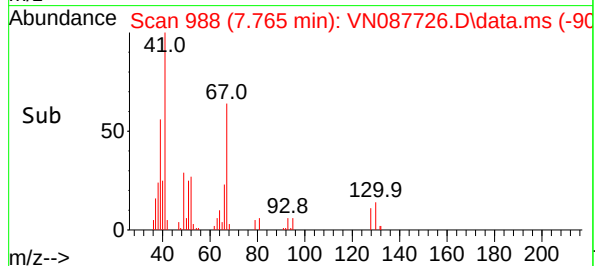
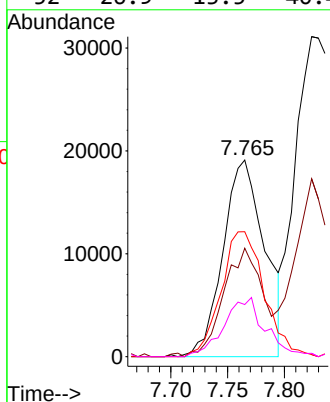
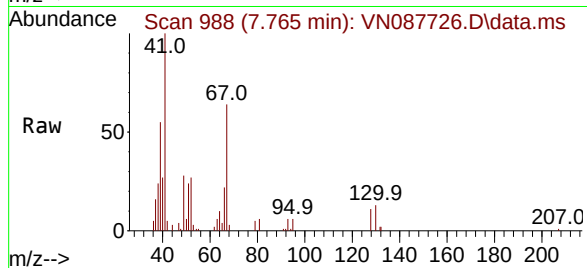
VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 48528 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.1  | 27.1  | 81.2  |
| 67       | 64.3  | 32.1  | 96.5  |
| 52       | 26.9  | 13.5  | 40.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 18.230 ug/l

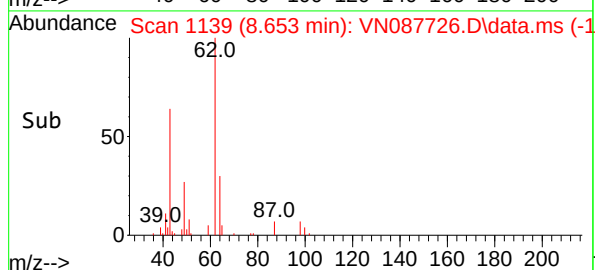
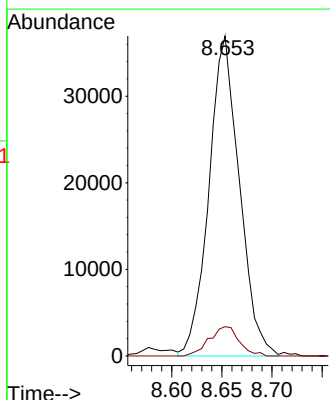
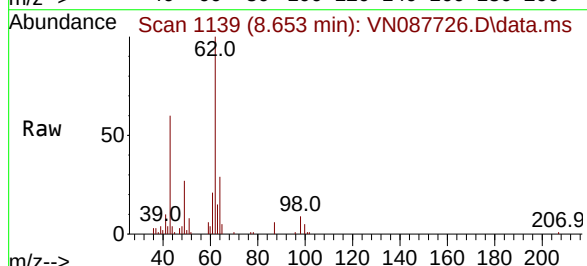
RT: 8.653 min Scan# 1139

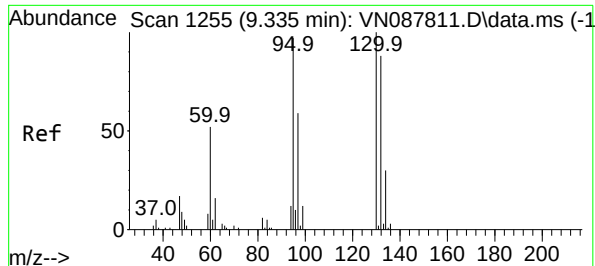
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 78112 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.0   | 7.2   | 10.8  |





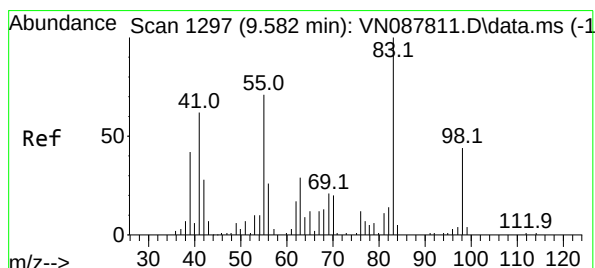
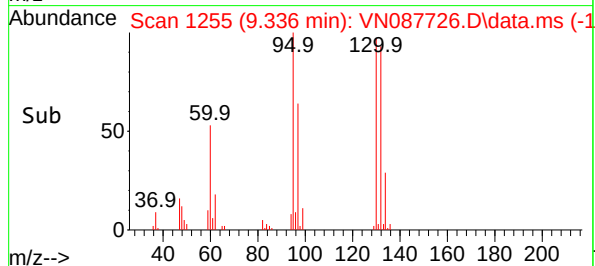
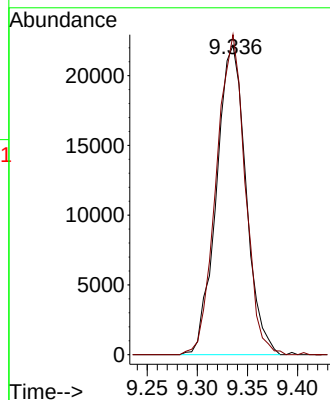
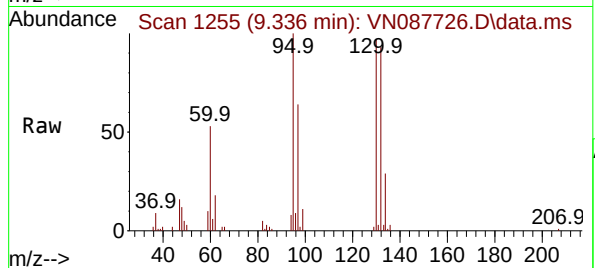
#37  
Trichloroethene  
Concen: 19.215 ug/l  
RT: 9.336 min Scan# 1255  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:130 Resp: 45484  
Ion Ratio Lower Upper  
130 100  
95 103.4 82.7 124.1

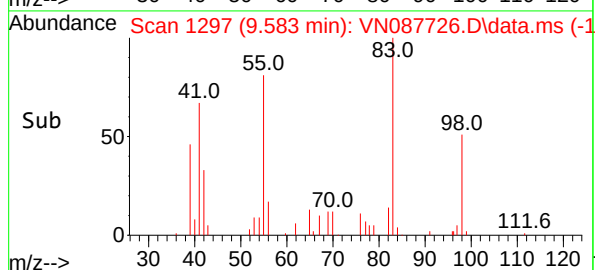
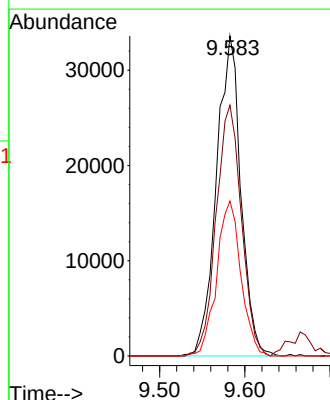
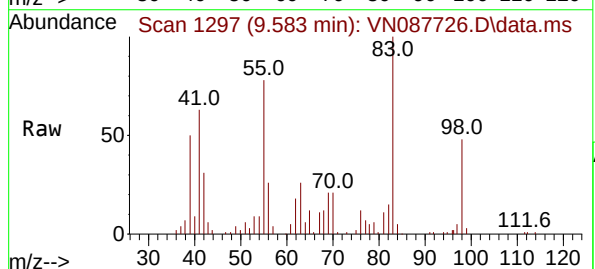
Manual Integrations  
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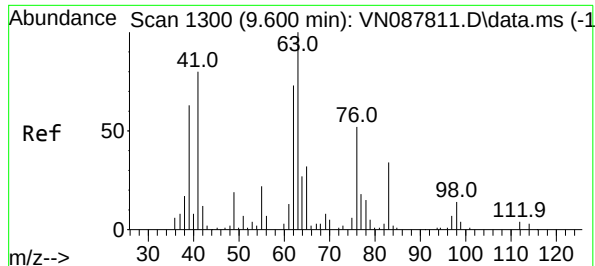
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#38  
Methylcyclohexane  
Concen: 17.371 ug/l  
RT: 9.583 min Scan# 1297  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 83 Resp: 67168  
Ion Ratio Lower Upper  
83 100  
55 80.7 40.4 121.1  
98 48.0 24.0 72.0





#39

1,2-Dichloropropane

Concen: 19.162 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 5278

Ion Ratio Lower Upper

63 100

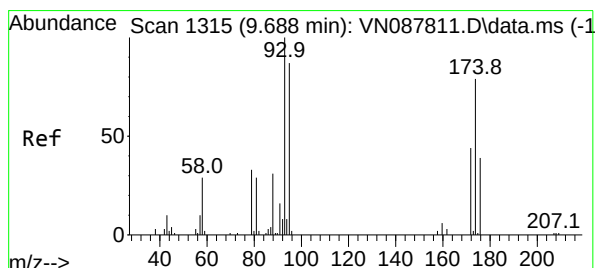
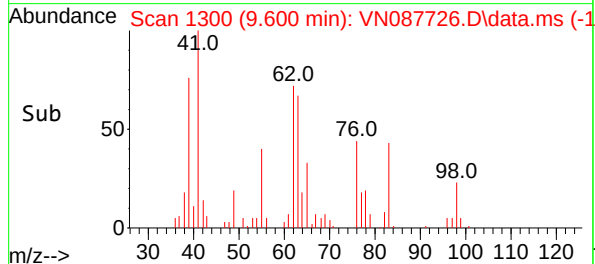
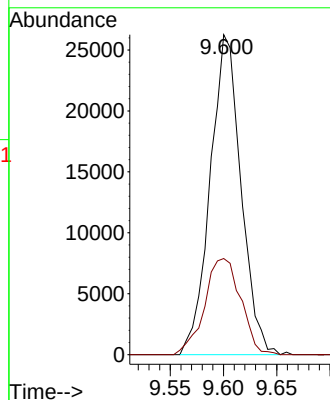
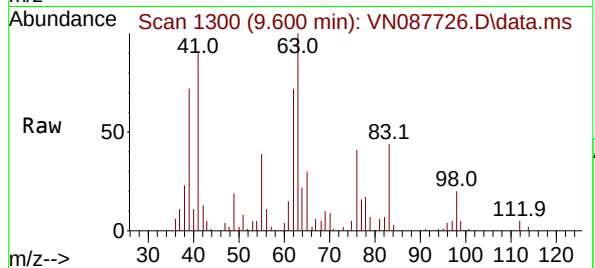
65 30.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 18.828 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

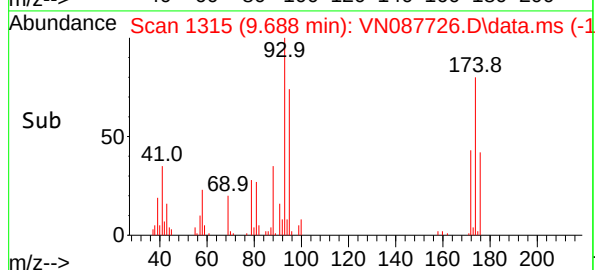
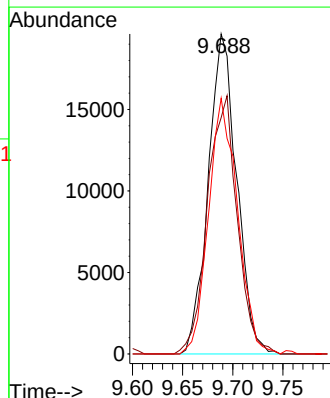
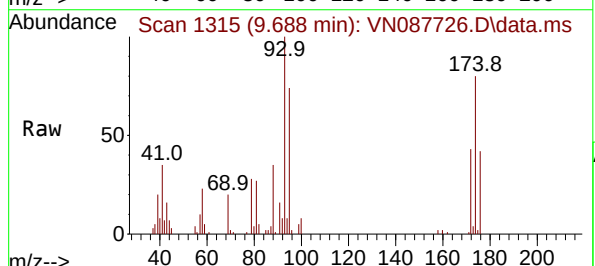
Tgt Ion: 93 Resp: 38777

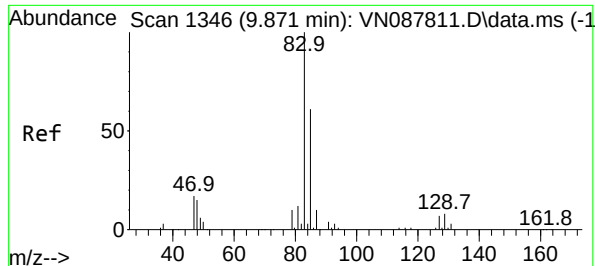
Ion Ratio Lower Upper

93 100

95 84.2 0.0 168.4

174 81.4 0.0 162.8





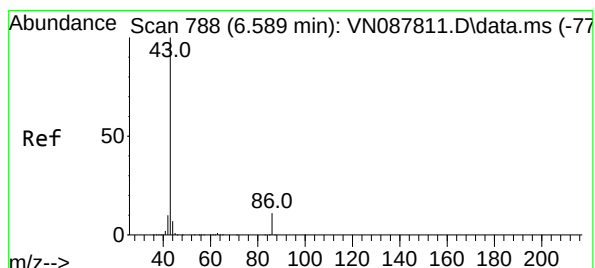
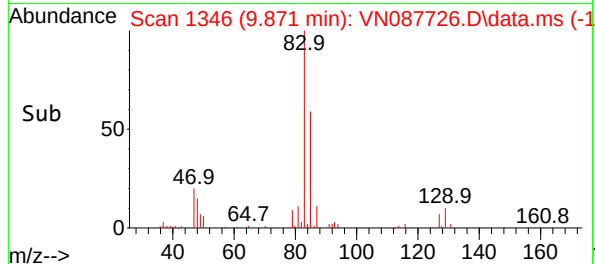
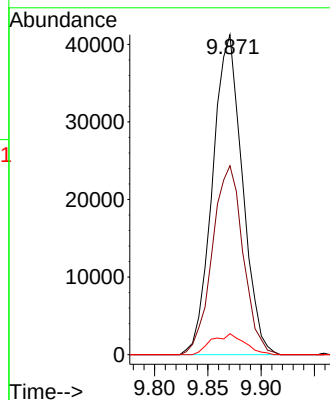
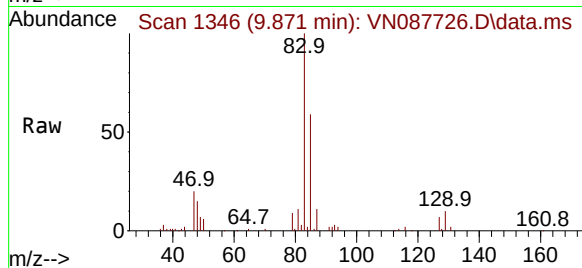
#41  
Bromodichloromethane  
Concen: 18.694 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 83 Resp: 8040  
Ion Ratio Lower Upper  
83 100  
85 59.1 47.3 70.9  
127 6.5 5.2 7.8

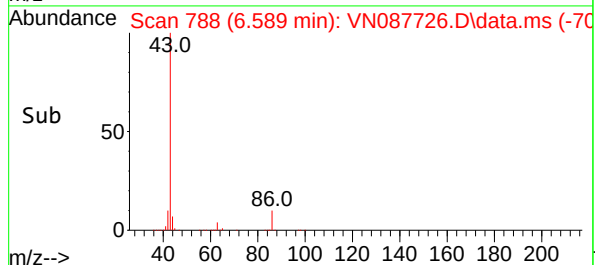
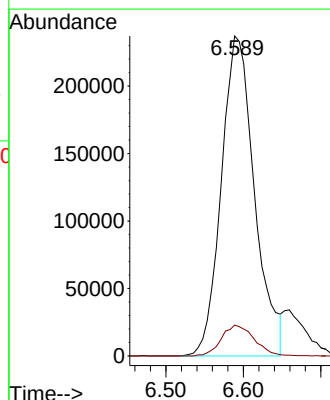
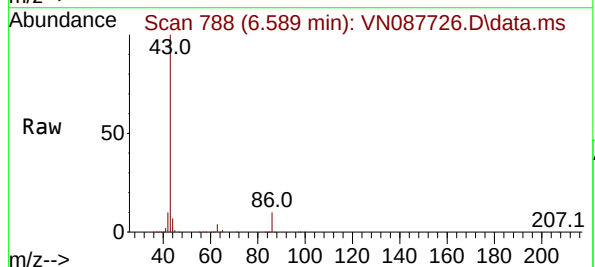
Manual Integrations  
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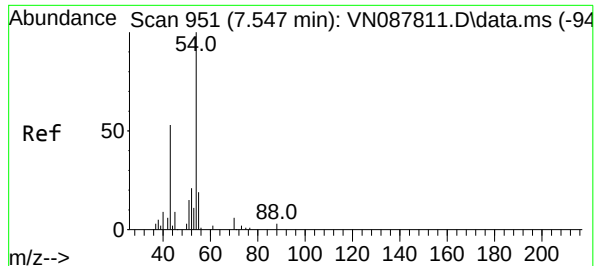
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 87.467 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 43 Resp: 706403  
Ion Ratio Lower Upper  
43 100  
86 9.6 7.7 11.5





#43

Ethyl Acetate

Concen: 18.839 ug/l

RT: 7.547 min Scan# 9114

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 9114

Ion Ratio Lower Upper

43 100

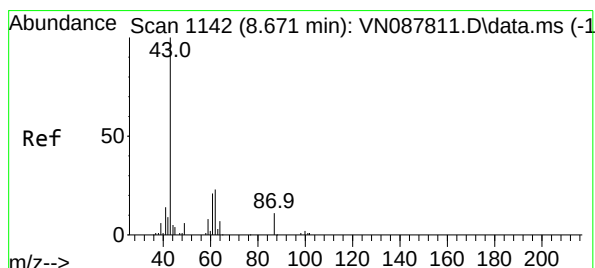
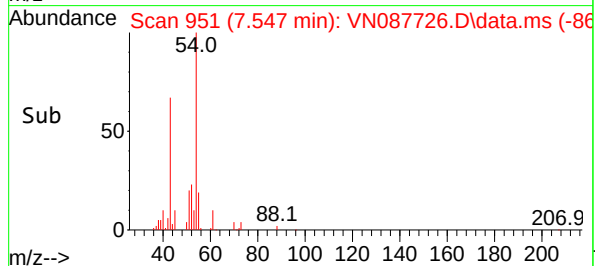
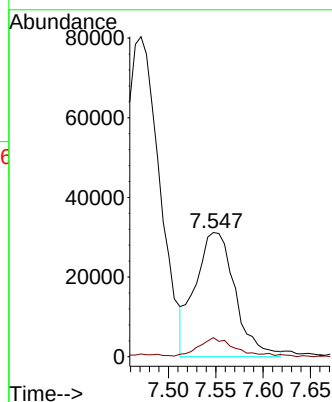
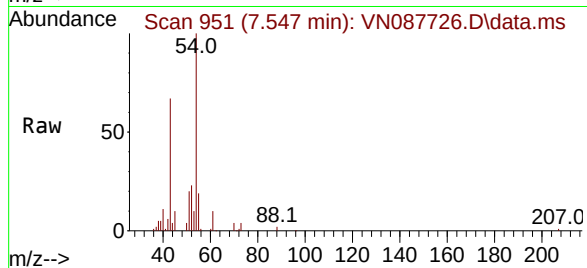
45 13.1 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 17.422 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087726.D

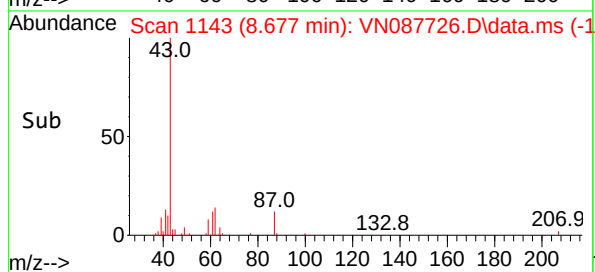
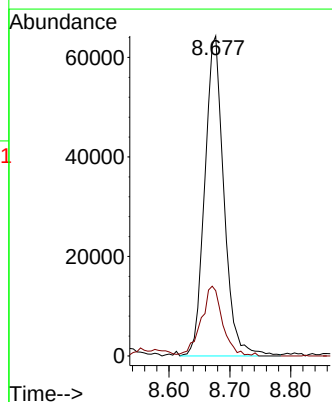
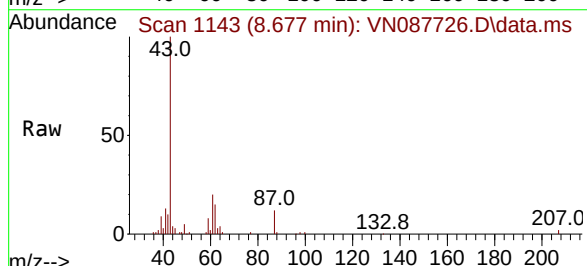
Acq: 04 Sep 2025 16:44

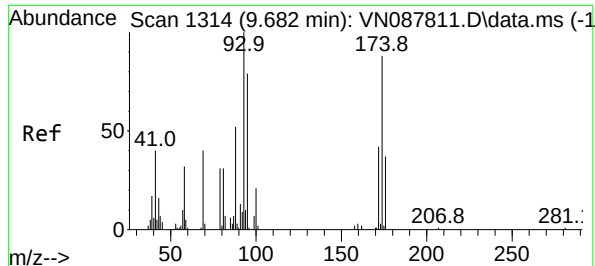
Tgt Ion: 43 Resp: 140215

Ion Ratio Lower Upper

43 100

61 24.4 19.5 29.3





#45

1,4-Dioxane

Concen: 363.739 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

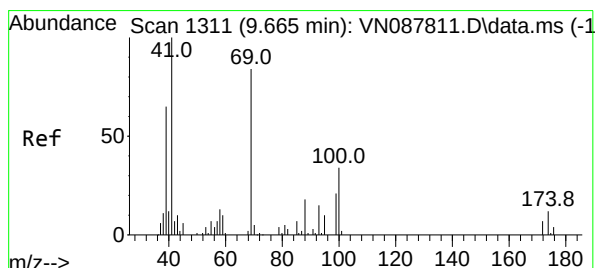
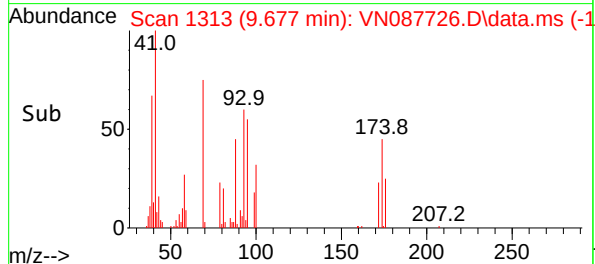
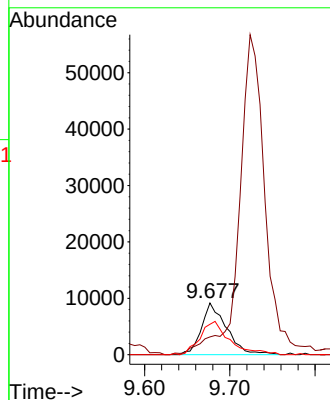
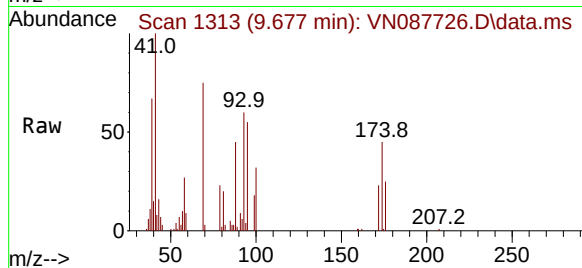
ClientSampleId :

VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 1874  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 29.5  | 23.6  | 35.4  |
| 58       | 75.6  | 60.5  | 90.7  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 16.572 ug/l

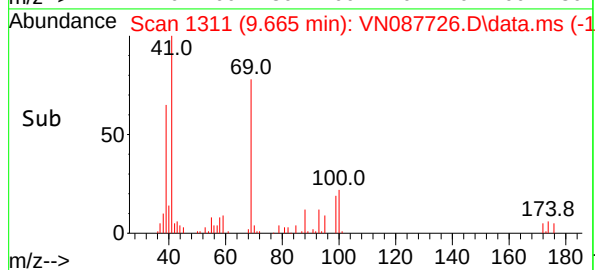
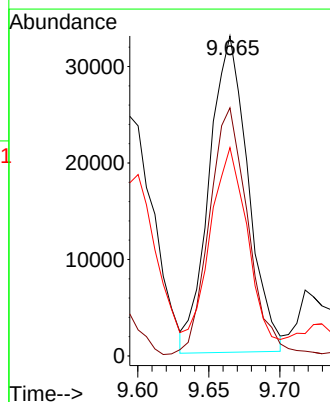
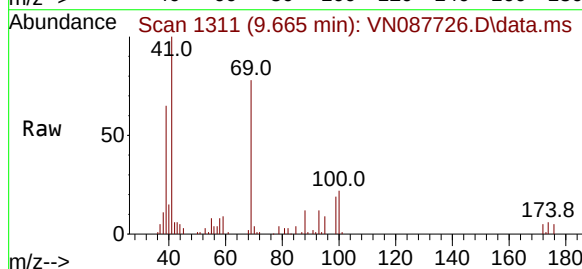
RT: 9.665 min Scan# 1311

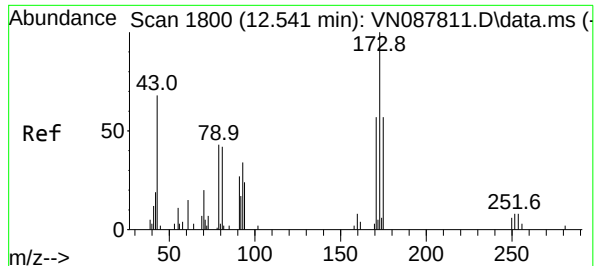
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 62431 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 80.6  | 40.3  | 120.9 |
| 39       | 63.9  | 31.9  | 95.9  |





#47

n-amy1 Acetate

Concen: 15.604 ug/l m

RT: 12.671 min Scan# 1800

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 73018

Ion Ratio Lower Upper

43 100

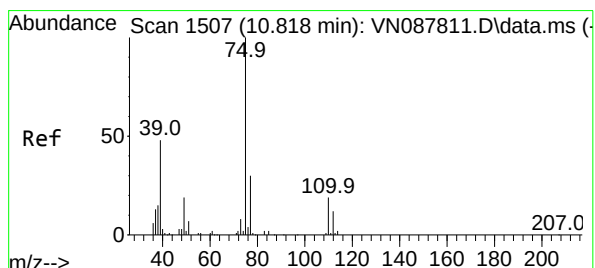
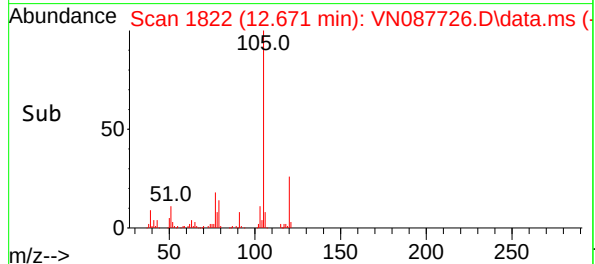
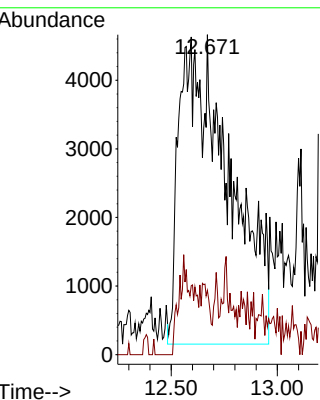
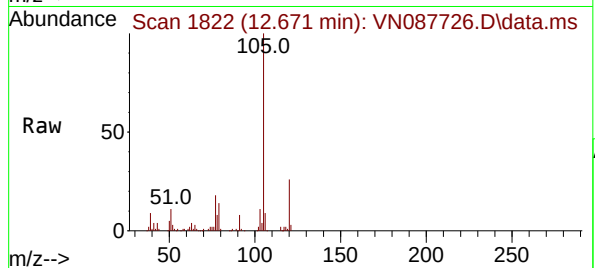
55 0.0 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 17.108 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087726.D

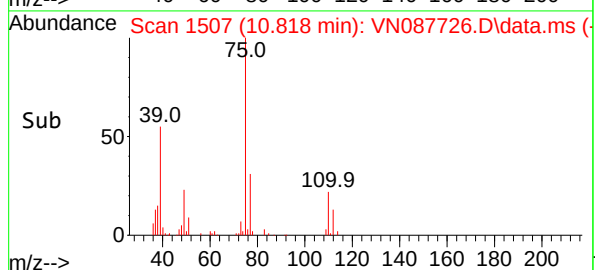
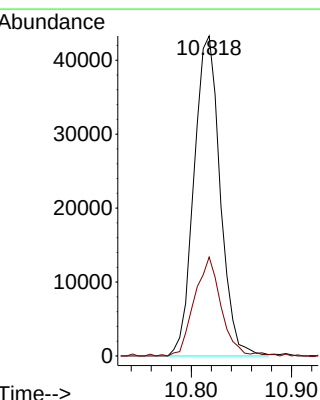
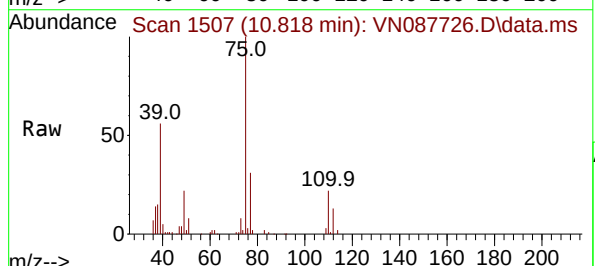
Acq: 04 Sep 2025 16:44

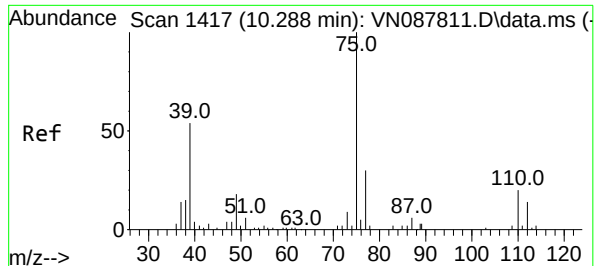
Tgt Ion: 75 Resp: 78438

Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1





#49

cis-1,3-Dichloropropene

Concen: 17.252 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

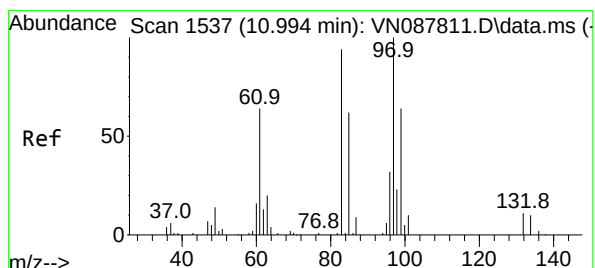
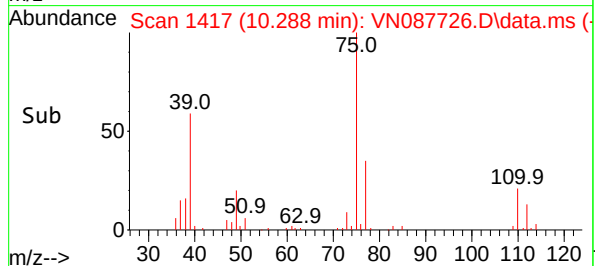
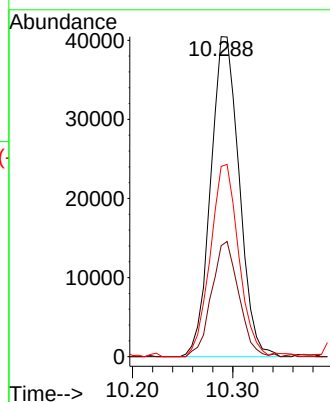
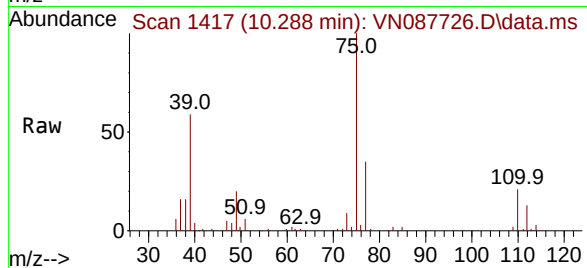
ClientSampleId :

VSTDICCC020

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 7983     |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 34.7 27.8 41.6 |
| 39          | 59.5 47.6 71.4 |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 19.075 ug/l

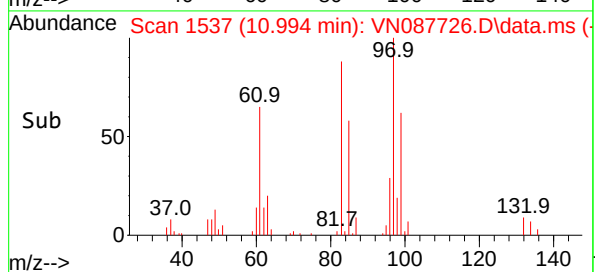
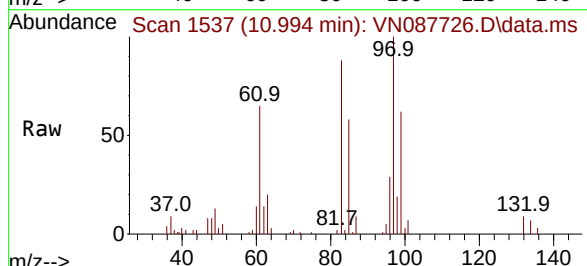
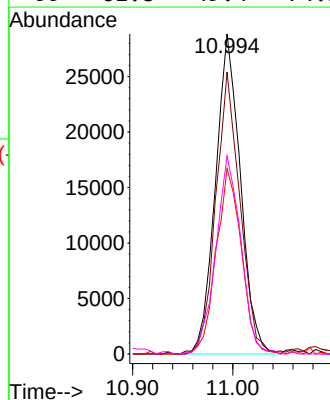
RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

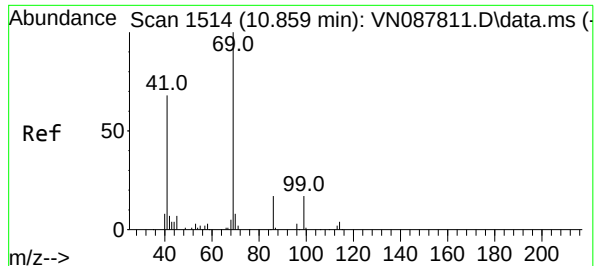
Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|             |                 |
|-------------|-----------------|
| Tgt Ion: 97 | Resp: 49901     |
| Ion Ratio   | Lower Upper     |
| 97          | 100             |
| 83          | 88.1 70.5 105.7 |
| 85          | 57.9 46.3 69.5  |
| 99          | 61.8 49.4 74.2  |







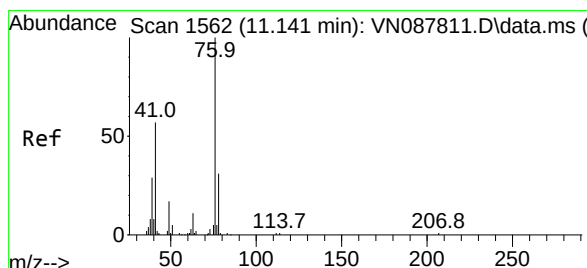
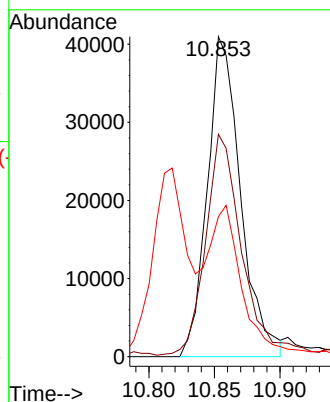
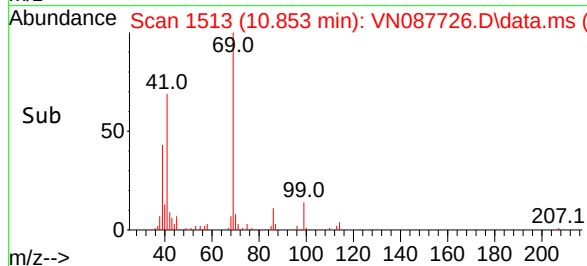
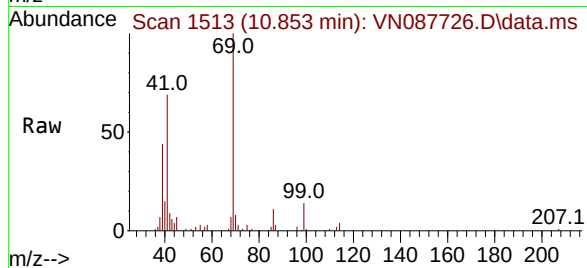
#51  
Ethyl methacrylate  
Concen: 16.207 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 69 Resp: 7234  
Ion Ratio Lower Upper  
69 100  
41 67.3 33.7 101.0  
39 40.6 20.3 60.9

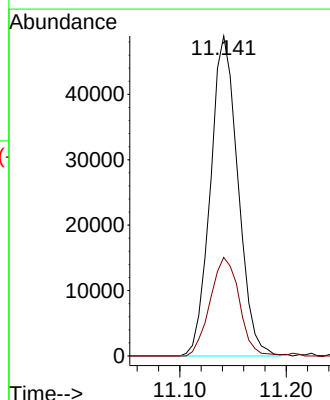
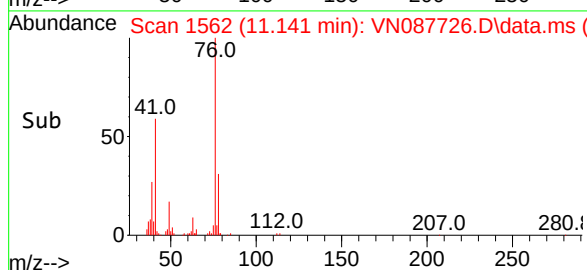
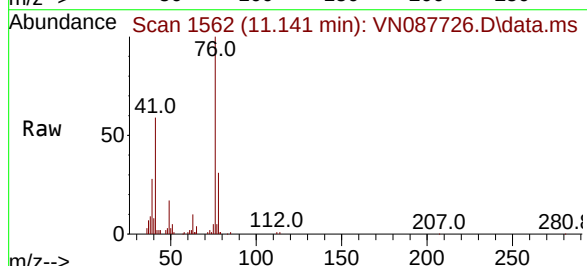
Manual Integrations  
APPROVED

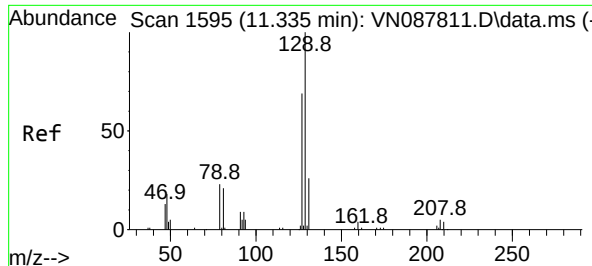
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 18.729 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

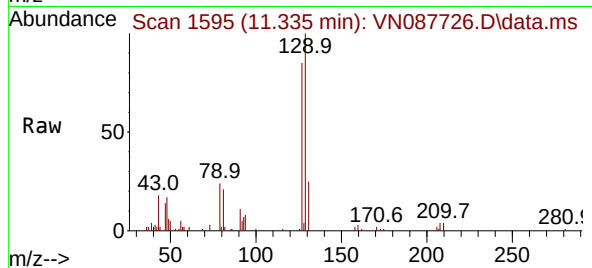
Tgt Ion: 76 Resp: 87839  
Ion Ratio Lower Upper  
76 100  
78 32.6 0.0 65.2





#53  
Dibromochloromethane  
Concen: 17.456 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

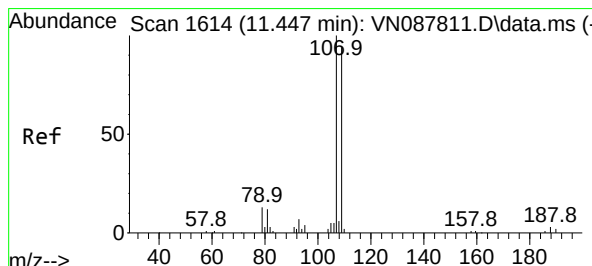
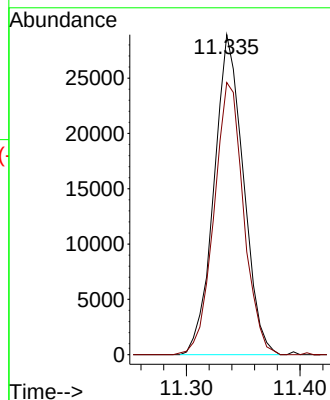
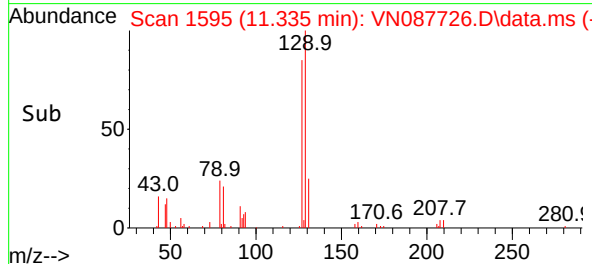
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



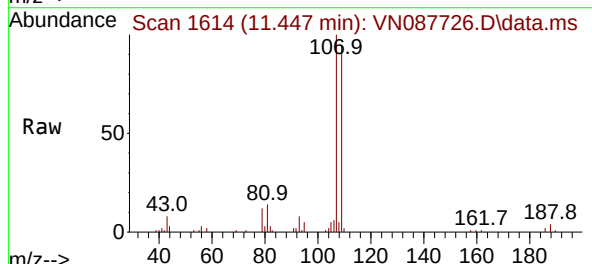
Tgt Ion:129 Resp: 5198  
Ion Ratio Lower Upper  
129 100  
127 85.3 42.6 128.0

Manual Integrations  
APPROVED

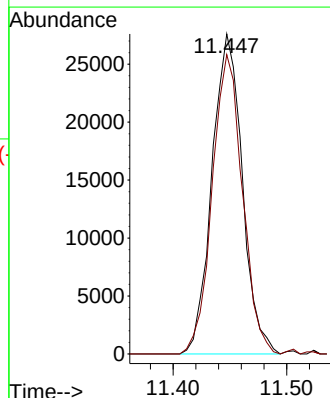
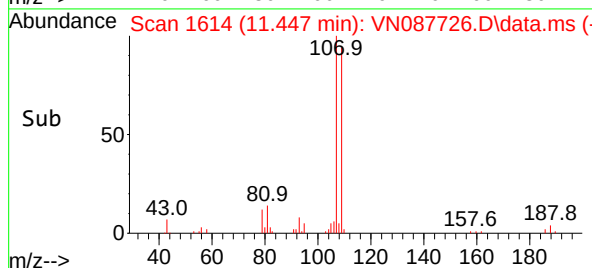
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

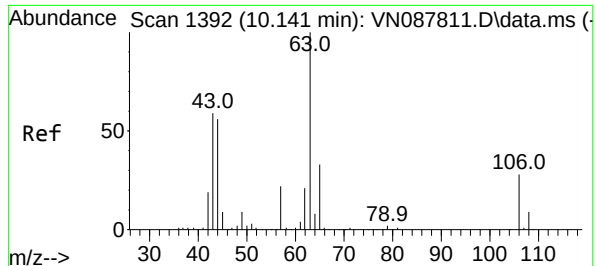


#54  
1,2-Dibromoethane  
Concen: 18.556 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44



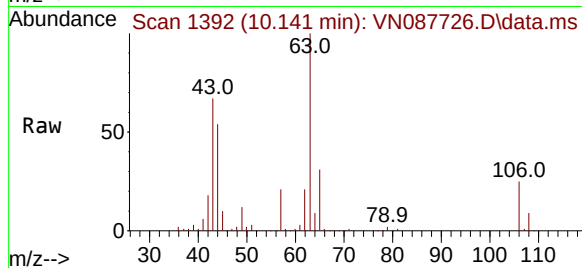
Tgt Ion:107 Resp: 51152  
Ion Ratio Lower Upper  
107 100  
109 93.3 74.6 112.0





#55  
2-Chloroethyl vinyl ether  
Concen: 93.348 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

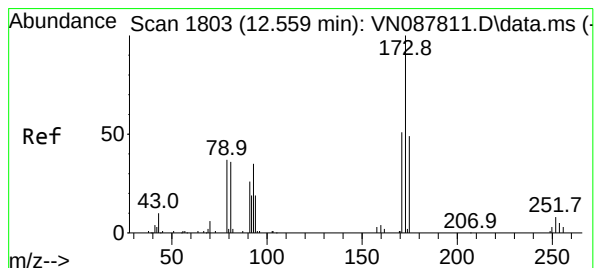
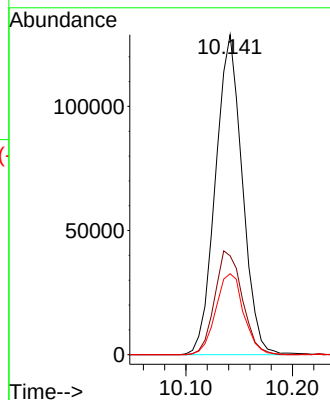
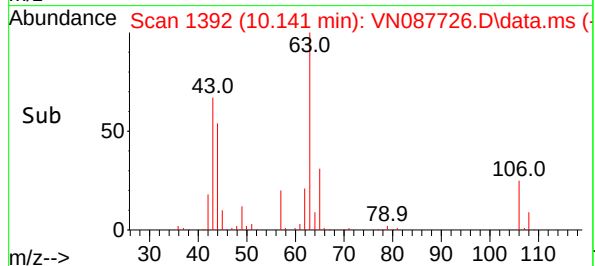
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 63 Resp: 22513  
Ion Ratio Lower Upper  
63 100  
65 33.3 26.6 40.0  
106 26.4 21.1 31.7

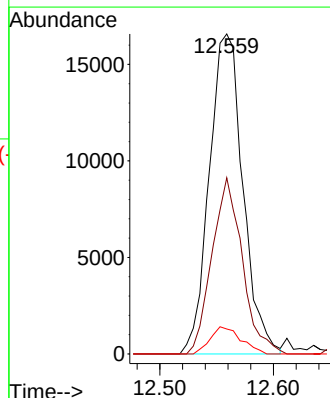
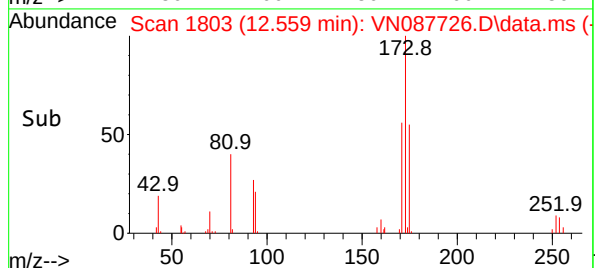
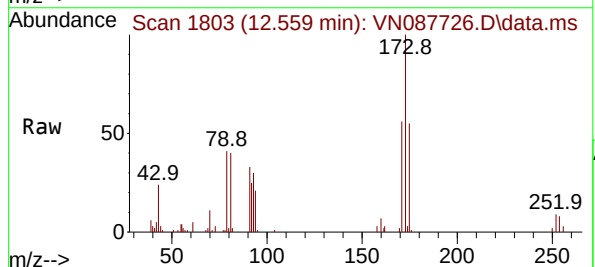
Manual Integrations  
APPROVED

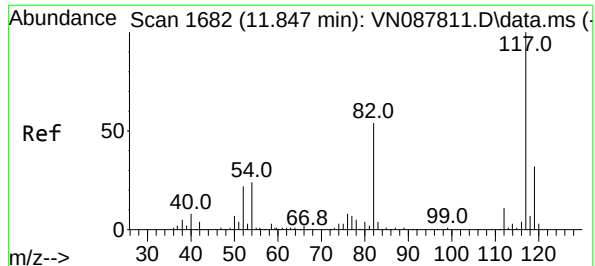
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 17.274 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion:173 Resp: 34081  
Ion Ratio Lower Upper  
173 100  
175 49.7 39.8 59.6  
254 7.8 6.2 9.4





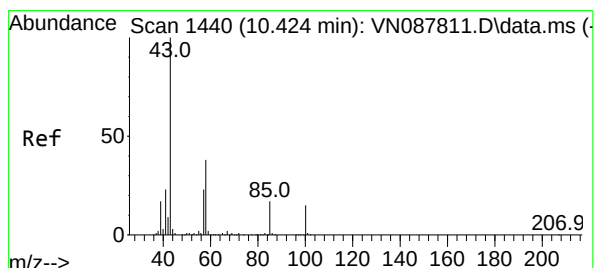
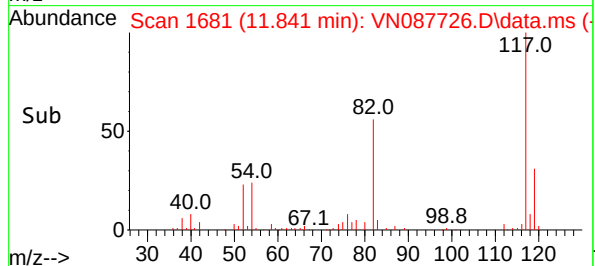
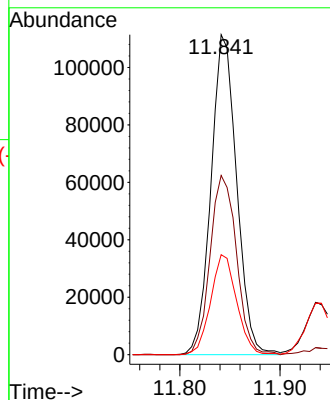
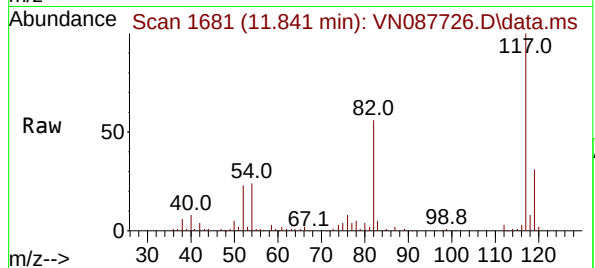
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 117 Resp: 198260  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.9 68.9  
119 31.6 25.3 37.9

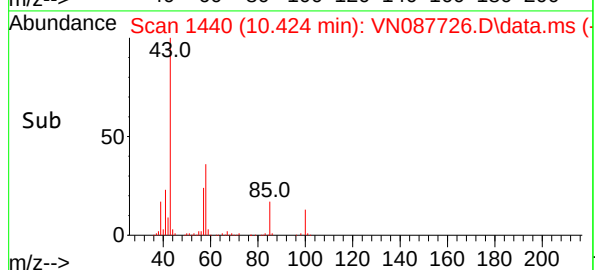
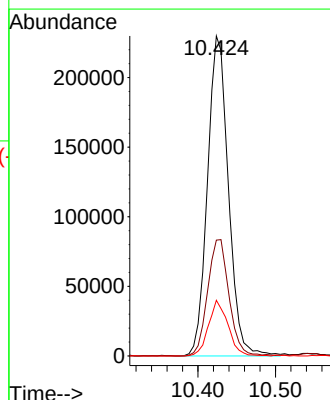
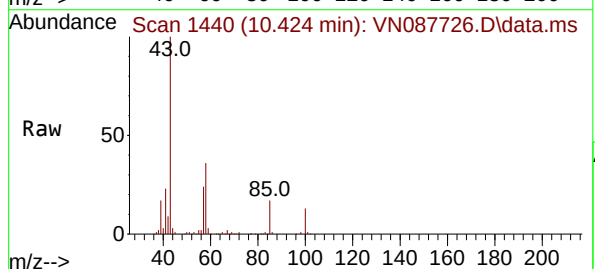
Manual Integrations  
APPROVED

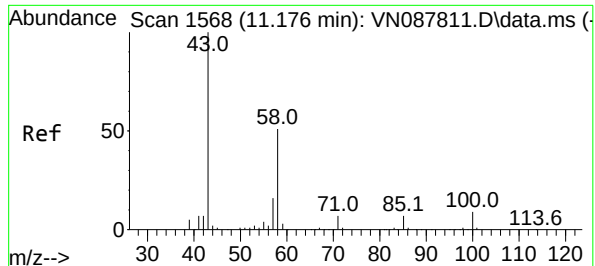
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 88.189 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 43 Resp: 432636  
Ion Ratio Lower Upper  
43 100  
58 37.0 29.6 44.4  
85 16.2 13.0 19.4





#59

2-Hexanone

Concen: 83.339 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 276879

Ion Ratio Lower Upper

43 100

58 50.3 40.2 60.4

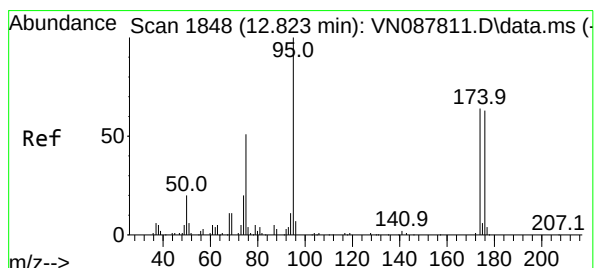
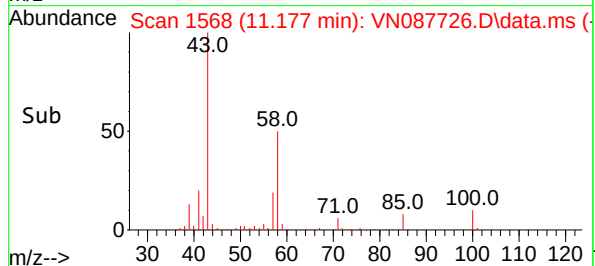
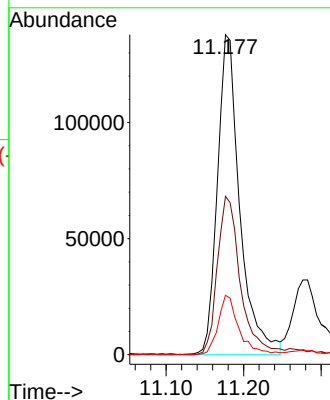
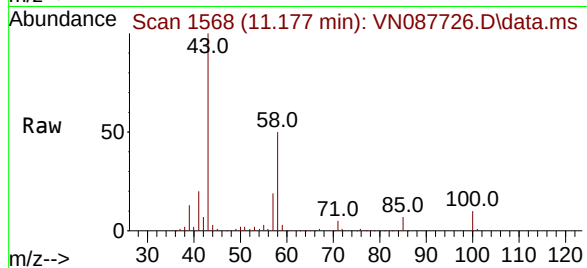
57 17.1 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#60

4-Bromofluorobenzene

Concen: 28.768 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

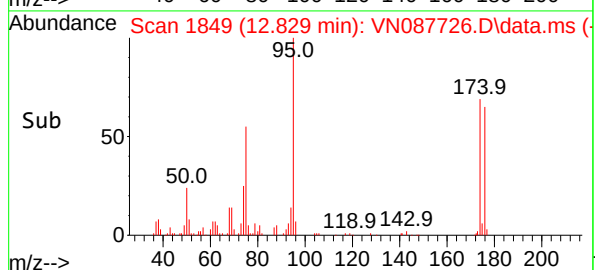
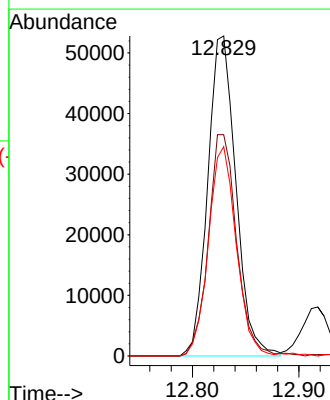
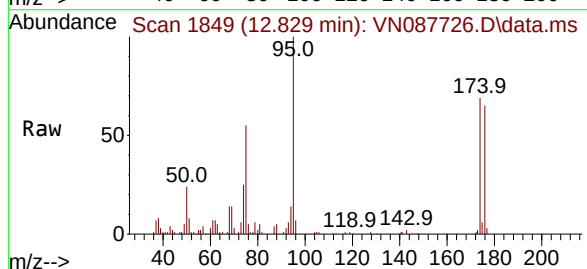
Tgt Ion: 95 Resp: 96997

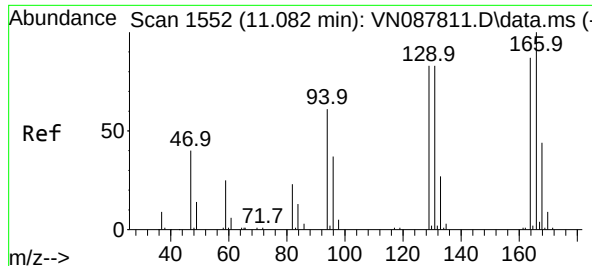
Ion Ratio Lower Upper

95 100

174 69.2 55.4 83.0

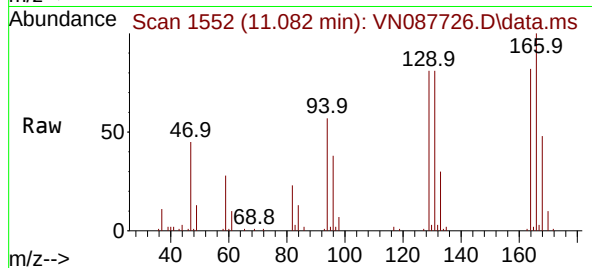
176 64.4 51.5 77.3





#61  
Tetrachloroethene  
Concen: 19.253 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

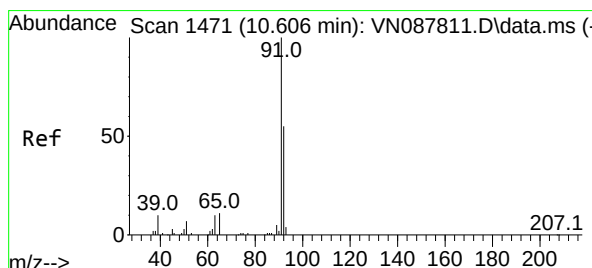
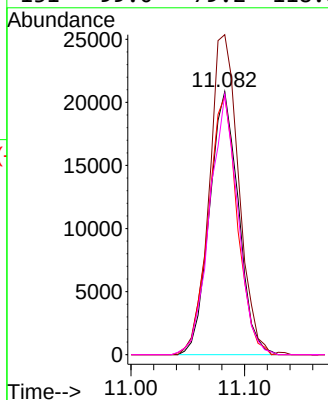
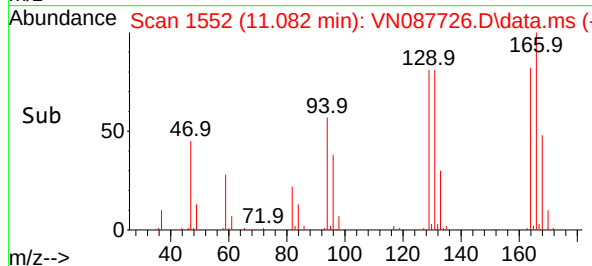
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



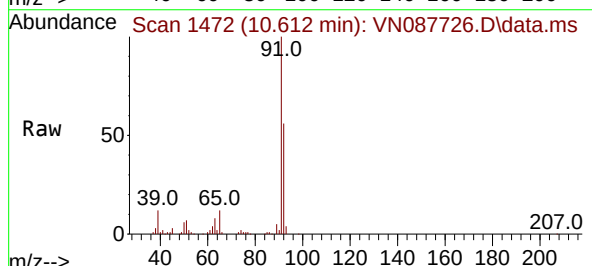
Tgt Ion:164 Resp: 3684  
Ion Ratio Lower Upper  
164 100  
166 121.6 97.3 145.9  
129 98.2 78.6 117.8  
131 99.0 79.2 118.8

Manual Integrations  
APPROVED

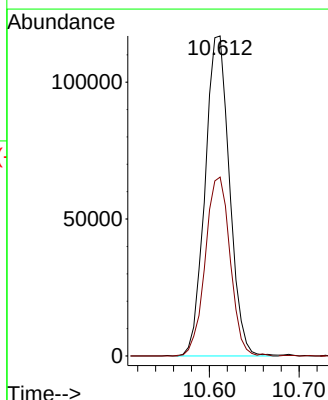
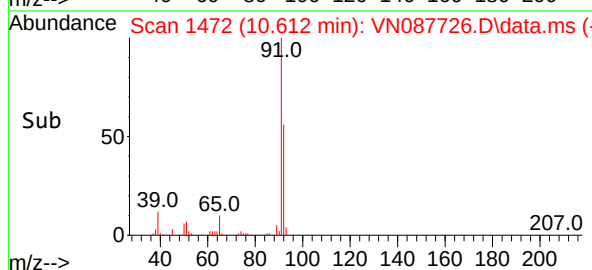
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

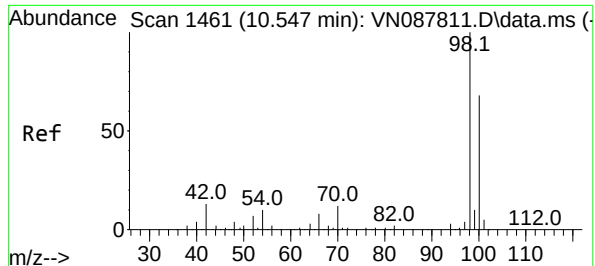


#62  
Toluene  
Concen: 18.530 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44



Tgt Ion: 91 Resp: 221067  
Ion Ratio Lower Upper  
91 100  
92 56.7 45.4 68.0





#63

Toluene-d8

Concen: 30.528 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 98 Resp: 279660

Ion Ratio Lower Upper

98 100

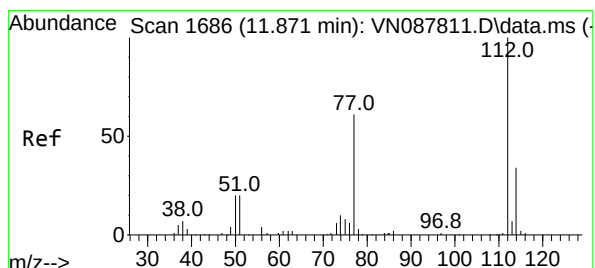
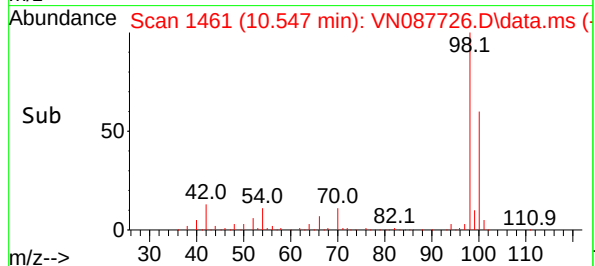
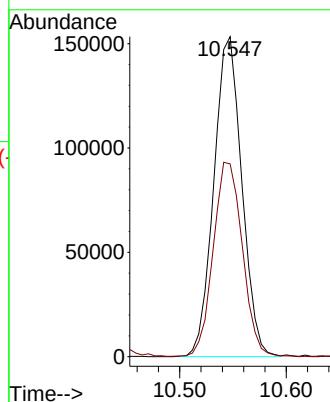
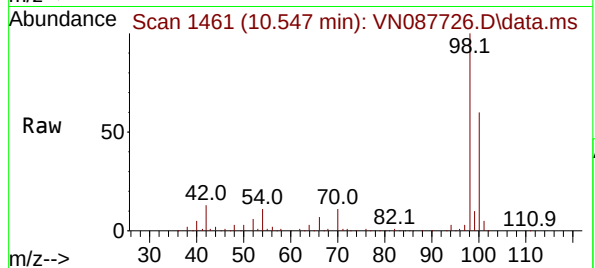
100 63.3 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#64

Chlorobenzene

Concen: 18.156 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN087726.D

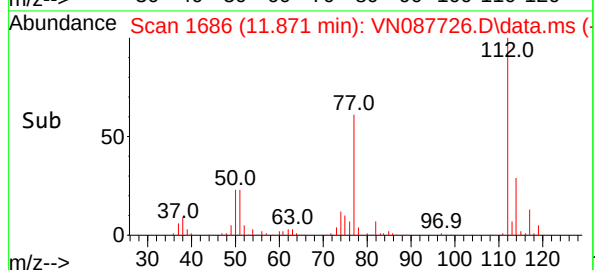
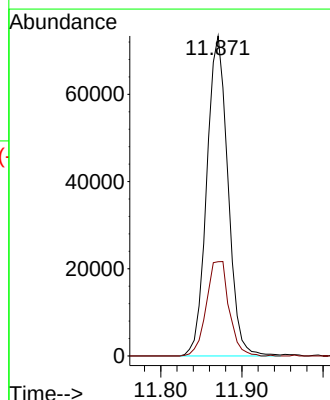
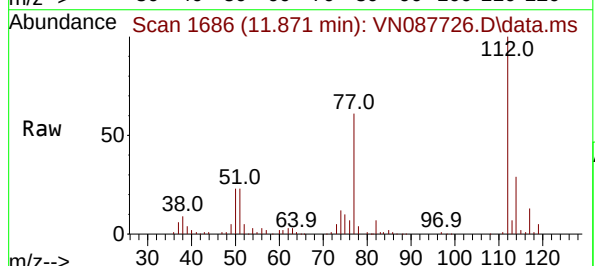
Acq: 04 Sep 2025 16:44

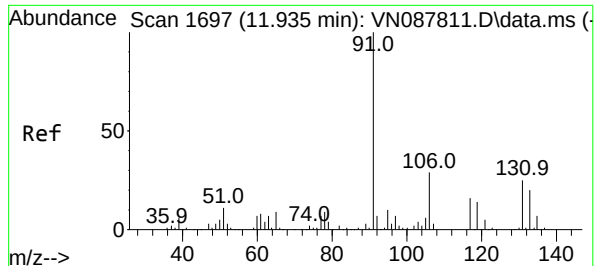
Tgt Ion:112 Resp: 132910

Ion Ratio Lower Upper

112 100

114 29.4 23.5 35.3





#65

1,1,1,2-Tetrachloroethane

Concen: 18.150 ug/l

RT: 11.935 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

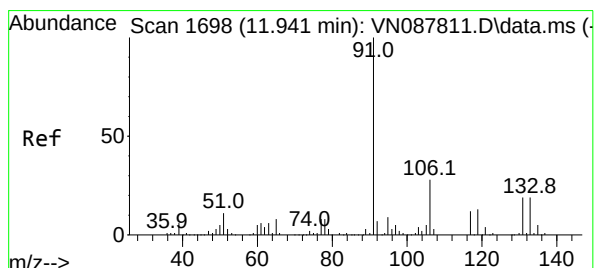
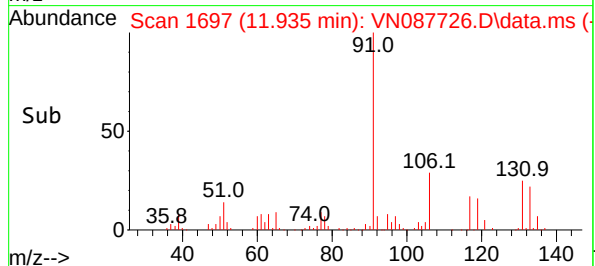
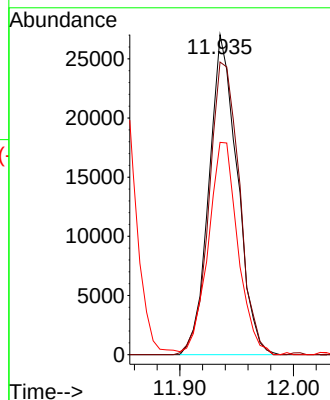
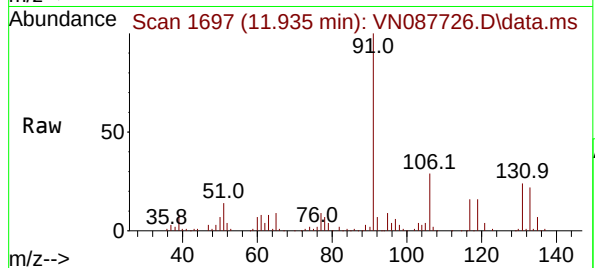
VSTDICCC020

| Tgt Ion:  | 131   | Resp: | 46772 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 131       | 100   |       |       |
| 133       | 97.9  | 0.0   | 195.8 |
| 119       | 69.5  | 0.0   | 139.0 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66

Ethyl Benzene

Concen: 17.532 ug/l

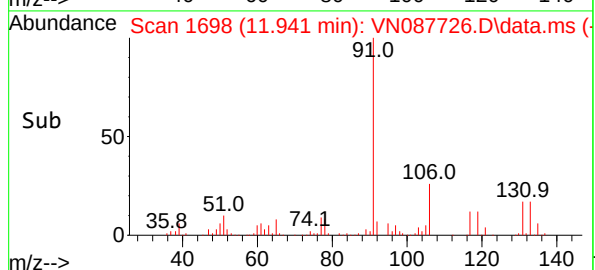
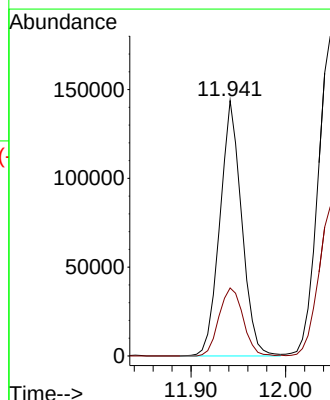
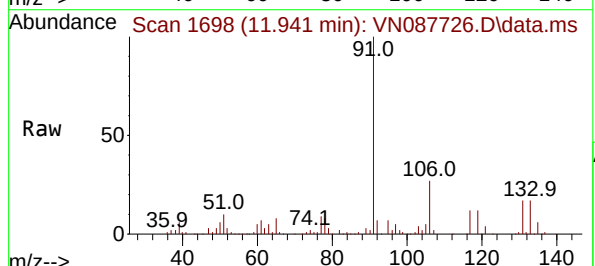
RT: 11.941 min Scan# 1698

Delta R.T. 0.000 min

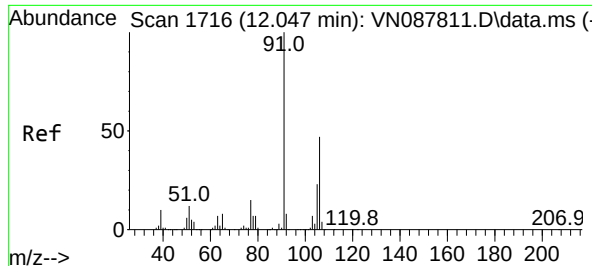
Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

| Tgt Ion:  | 91    | Resp: | 230526 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 26.6  | 21.3  | 31.9   |







#67

m/p-Xylenes

Concen: 35.082 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:106 Resp: 169788

Ion Ratio Lower Upper

106 100

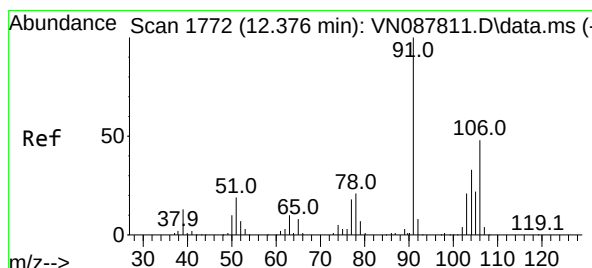
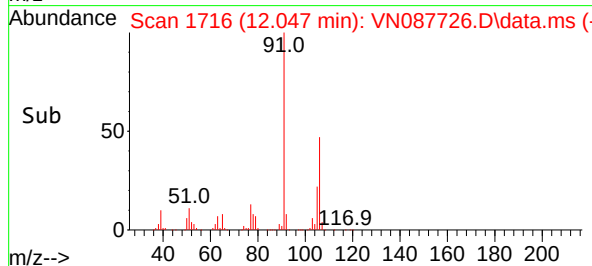
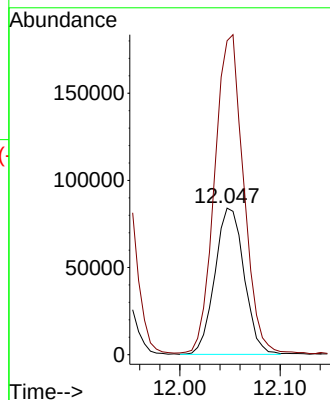
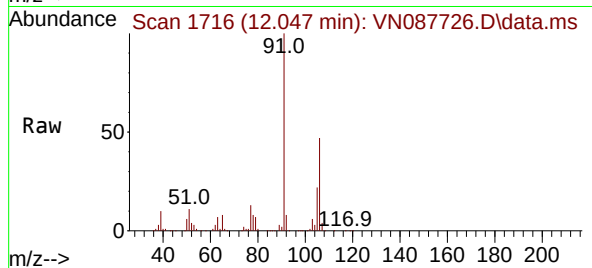
91 217.9 174.3 261.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#68

o-Xylene

Concen: 17.701 ug/l

RT: 12.377 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VN087726.D

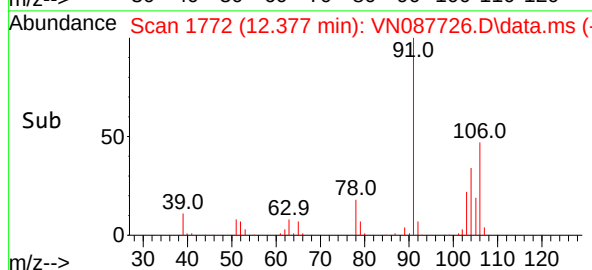
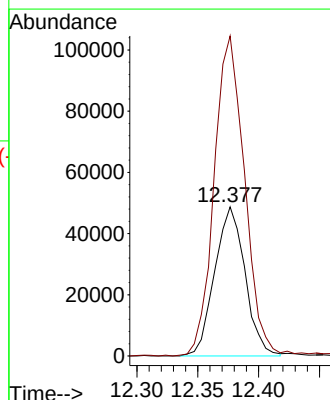
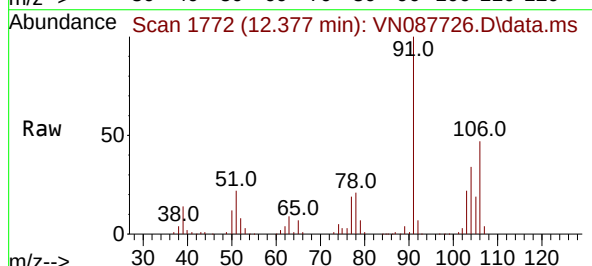
Acq: 04 Sep 2025 16:44

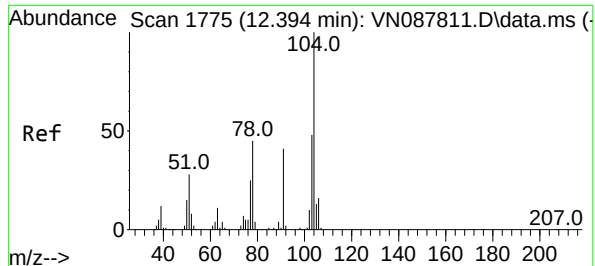
Tgt Ion:106 Resp: 84505

Ion Ratio Lower Upper

106 100

91 215.5 107.7 323.3





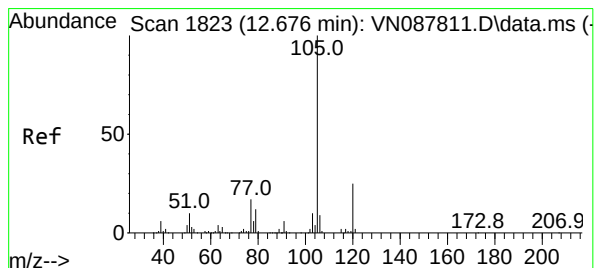
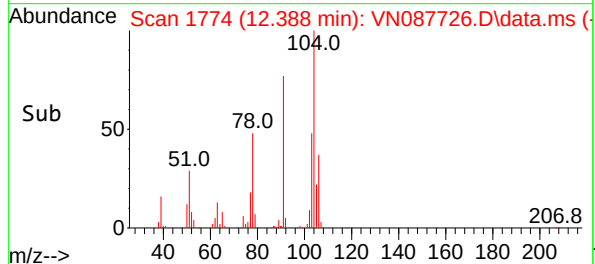
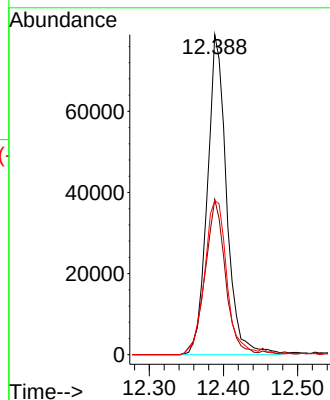
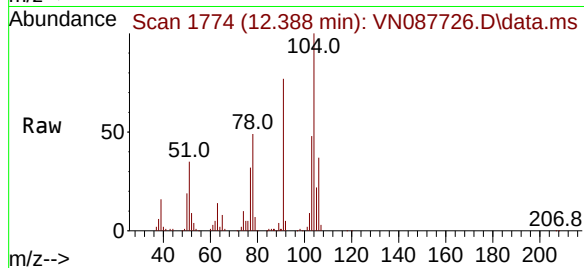
#69  
Styrene  
Concen: 17.520 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:104 Resp: 142280  
Ion Ratio Lower Upper  
104 100  
78 51.3 41.0 61.6  
103 55.7 44.6 66.8

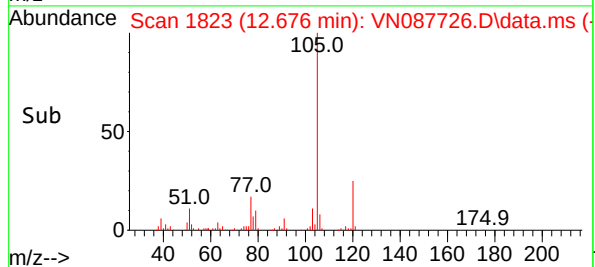
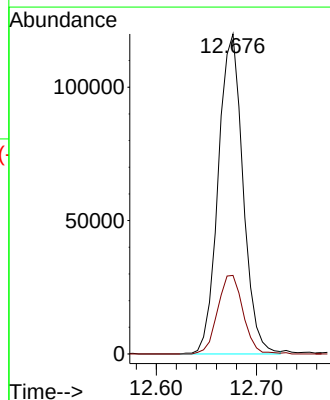
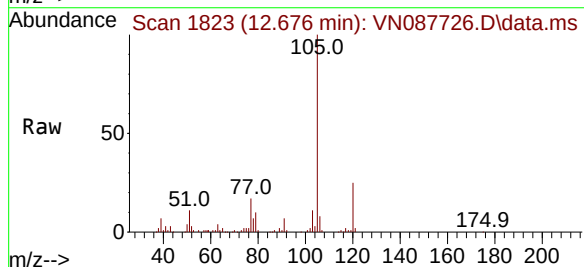
Manual Integrations  
APPROVED

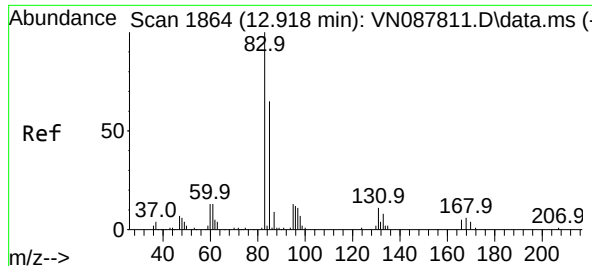
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#70  
Isopropylbenzene  
Concen: 17.117 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

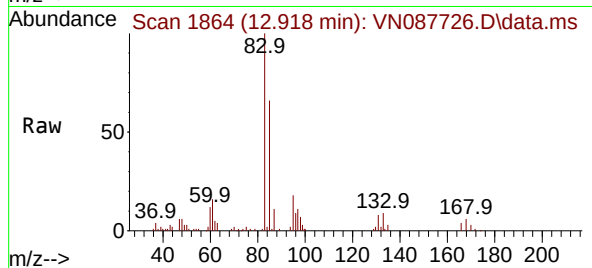
Tgt Ion:105 Resp: 205573  
Ion Ratio Lower Upper  
105 100  
120 24.9 17.4 32.4





#71  
1,1,2,2-Tetrachloroethane  
Concen: 19.086 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

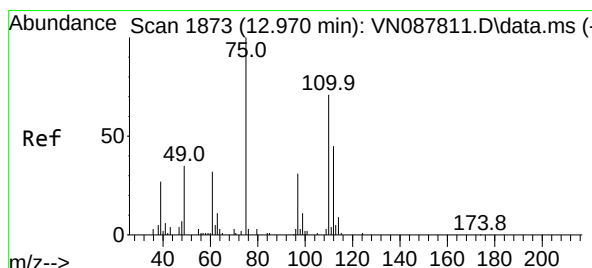
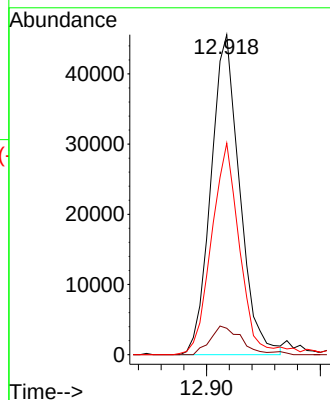
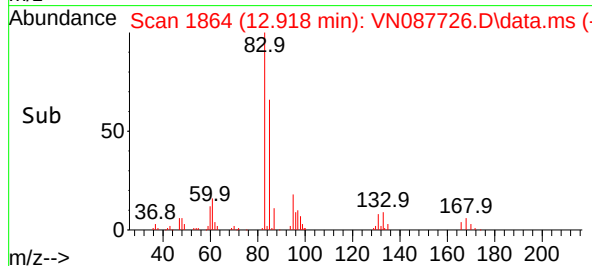
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 83 Resp: 7997  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 63.8 31.9 95.7

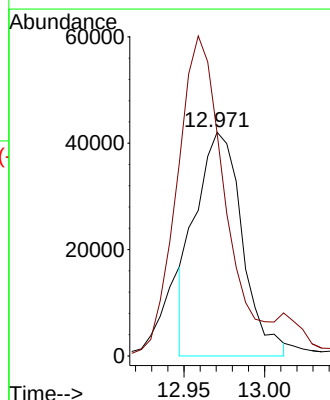
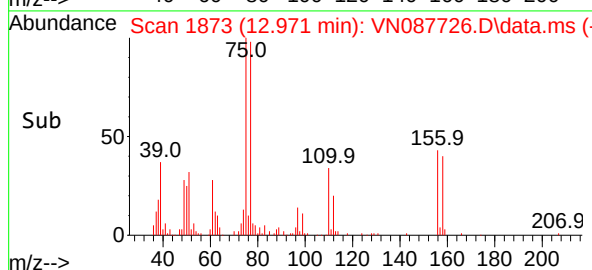
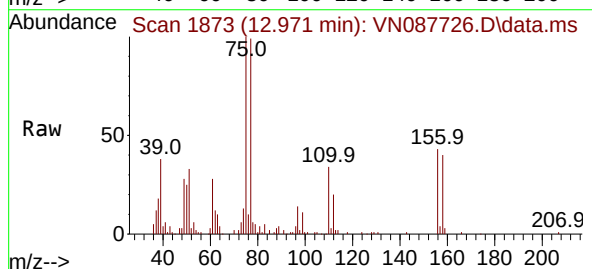
Manual Integrations  
APPROVED

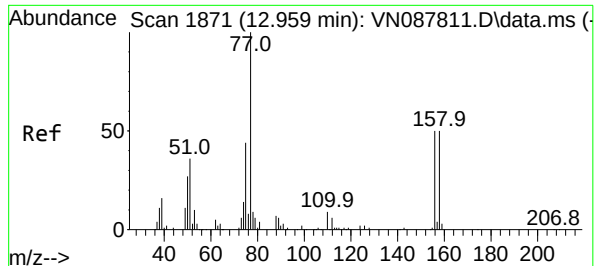
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 21.633 ug/l m  
RT: 12.971 min Scan# 1873  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 75 Resp: 84570  
Ion Ratio Lower Upper  
75 100  
77 148.7 0.0 378.8





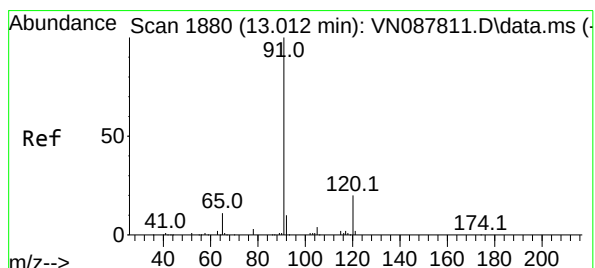
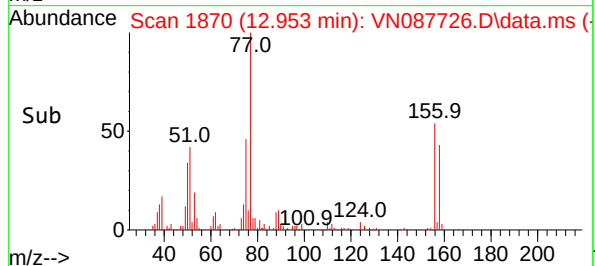
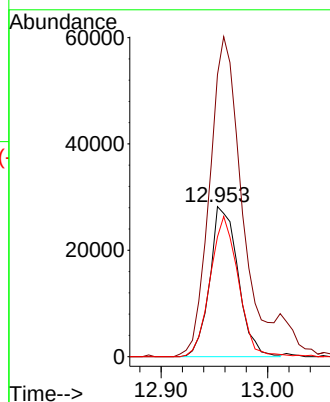
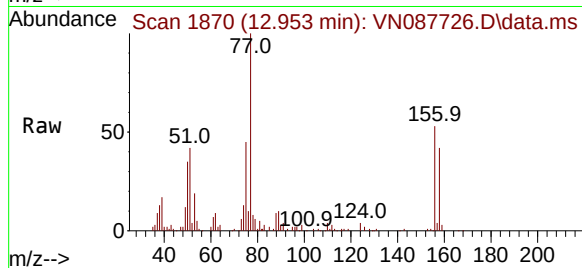
#73  
Bromobenzene  
Concen: 18.305 ug/l  
RT: 12.953 min Scan# 1871  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:156 Resp: 51969  
Ion Ratio Lower Upper  
156 100  
77 242.1 0.0 484.2  
158 93.1 0.0 186.2

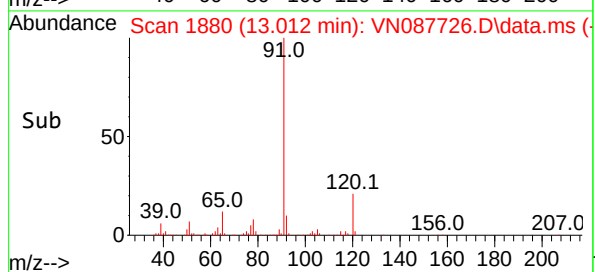
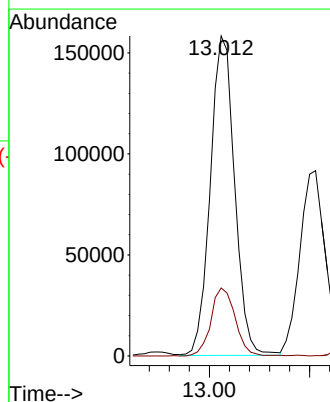
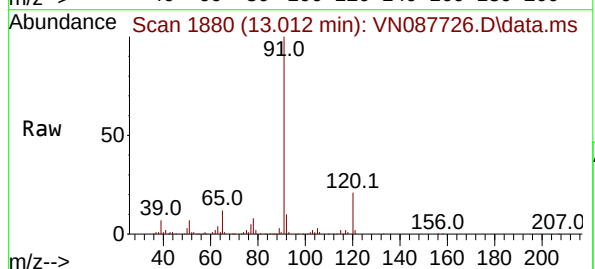
Manual Integrations  
APPROVED

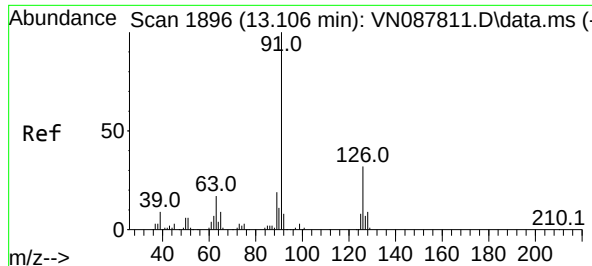
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#74  
n-propylbenzene  
Concen: 17.651 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion: 91 Resp: 266688  
Ion Ratio Lower Upper  
91 100  
120 21.1 0.0 42.2





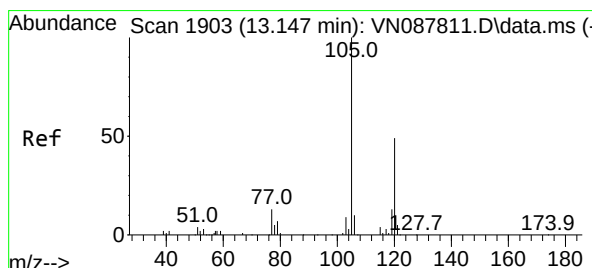
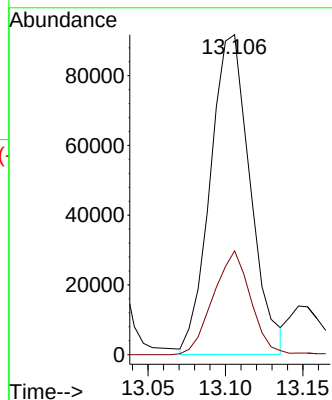
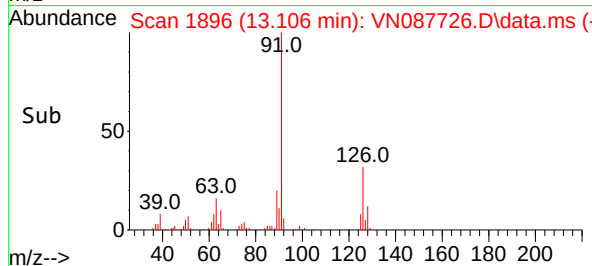
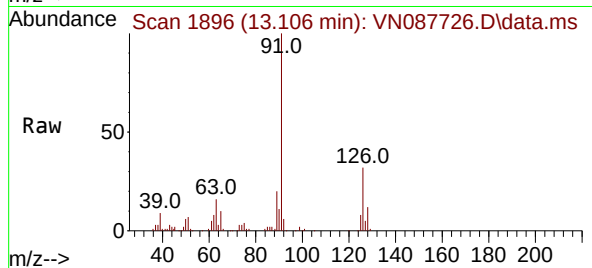
#75  
2-Chlorotoluene  
Concen: 17.679 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 91 Resp: 16431  
Ion Ratio Lower Upper  
91 100  
126 30.2 0.0 60.4

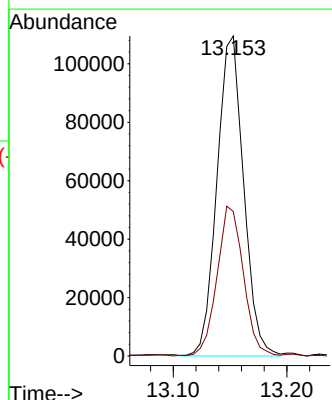
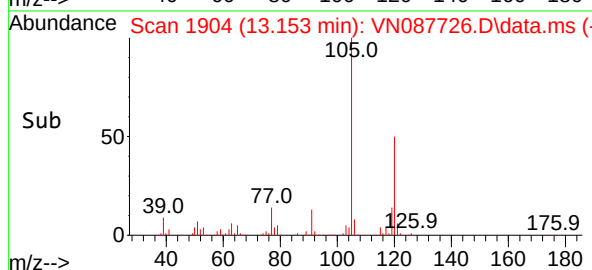
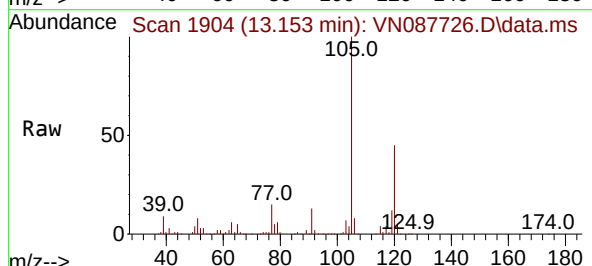
Manual Integrations  
APPROVED

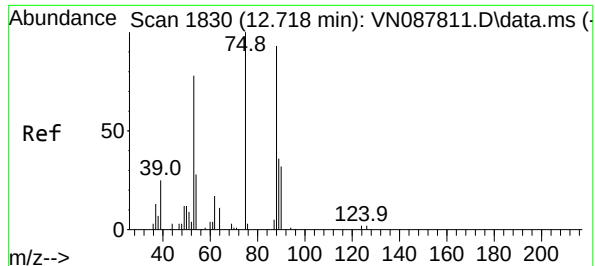
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 17.339 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion:105 Resp: 178698  
Ion Ratio Lower Upper  
105 100  
120 46.3 0.0 92.6





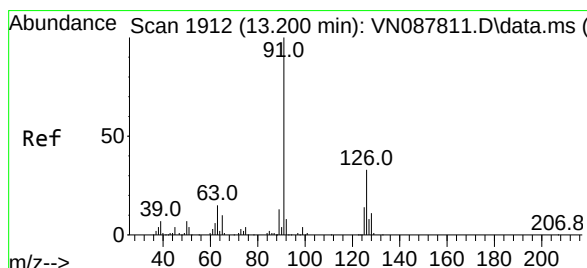
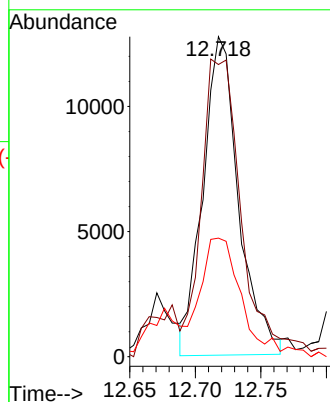
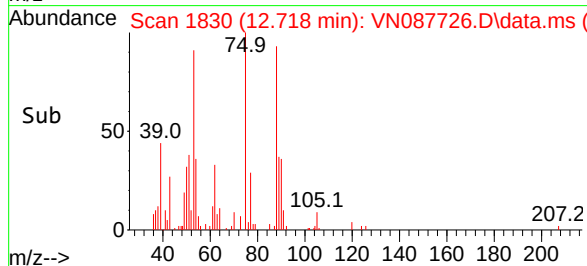
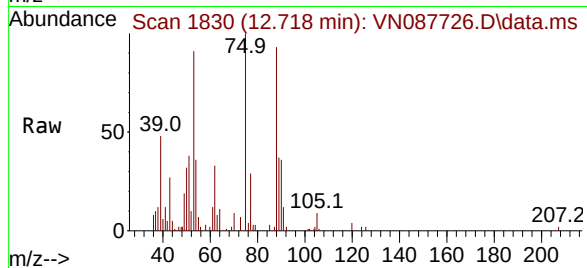
#77  
t-1,4-Dichloro-2-butene  
Concen: 16.407 ug/l  
RT: 12.718 min Scan# 1830  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

| Tgt Ion:  | 75    | Resp: | 24084 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 90.6  | 45.3  | 135.9 |
| 89        | 37.5  | 18.8  | 56.3  |

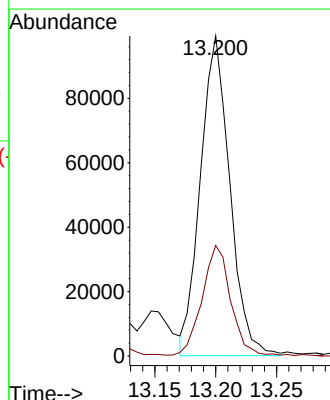
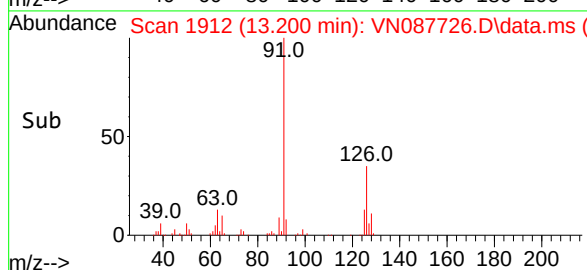
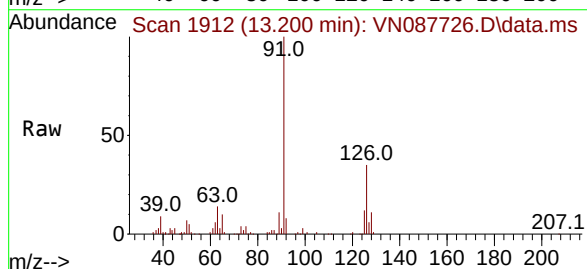
Manual Integrations  
APPROVED

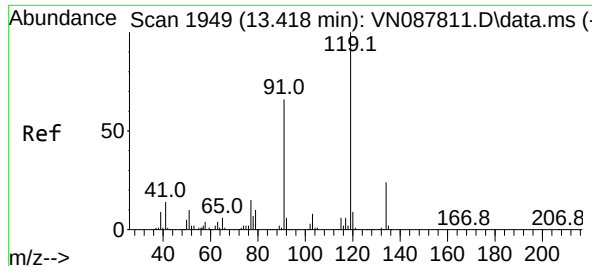
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78  
4-Chlorotoluene  
Concen: 17.614 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

| Tgt Ion:  | 91    | Resp: | 166605 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 33.5  | 0.0   | 67.0   |





#79

tert-butylbenzene

Concen: 17.250 ug/l

RT: 13.418 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 149770

Ion Ratio Lower Upper

119 100

91 71.3 0.0 142.6

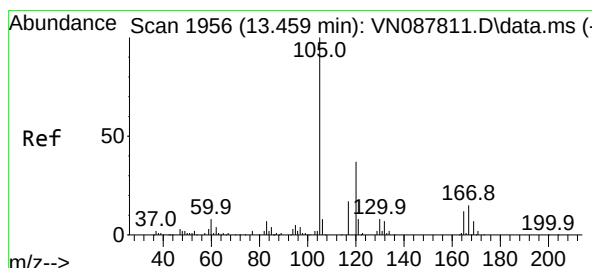
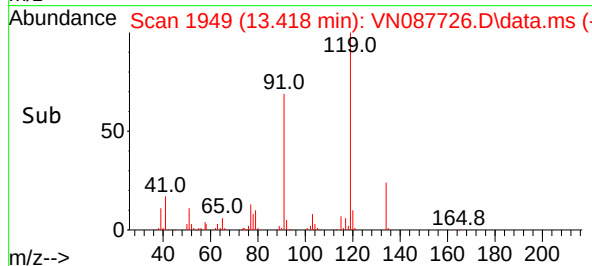
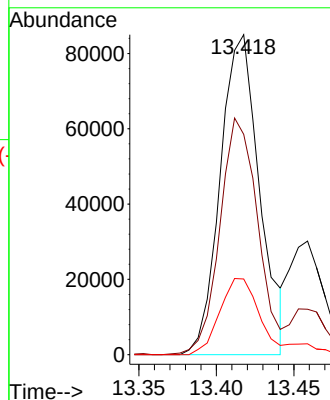
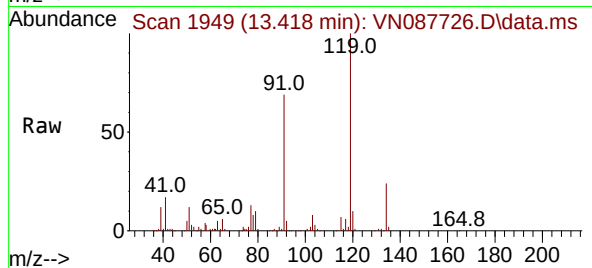
134 23.6 0.0 47.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#80

1,2,4-Trimethylbenzene

Concen: 17.861 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087726.D

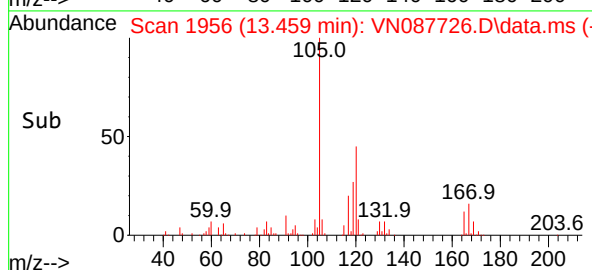
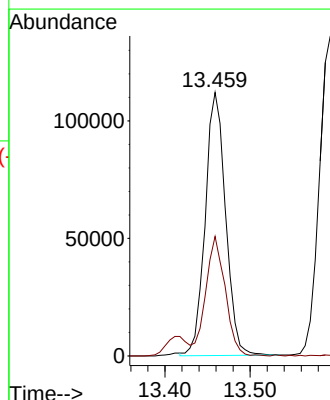
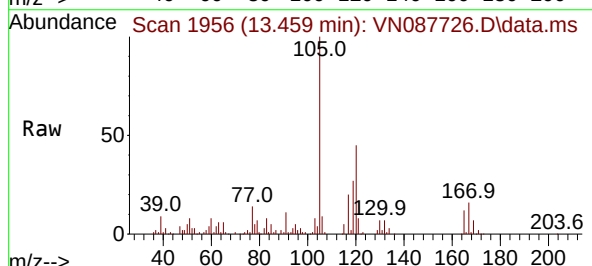
Acq: 04 Sep 2025 16:44

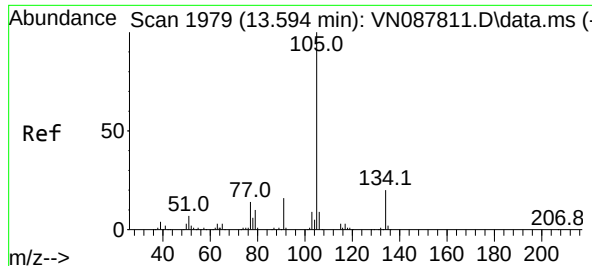
Tgt Ion:105 Resp: 185683

Ion Ratio Lower Upper

105 100

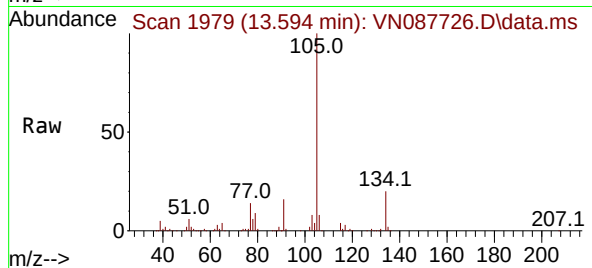
120 43.3 0.0 86.6





#81  
sec-Butylbenzene  
Concen: 17.504 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

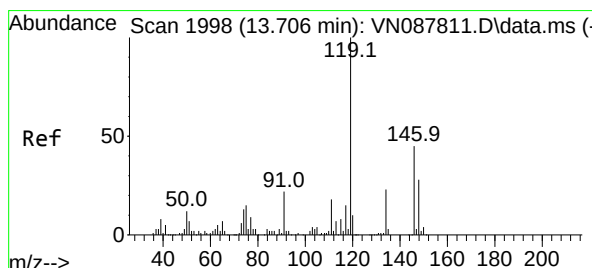
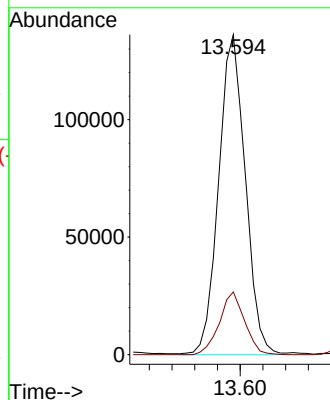
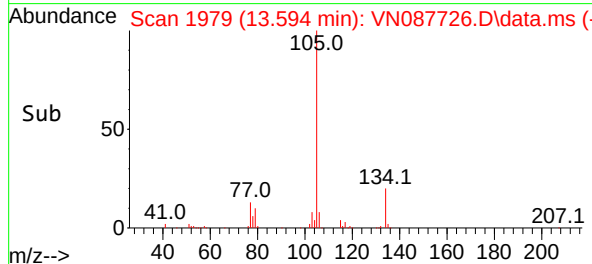
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



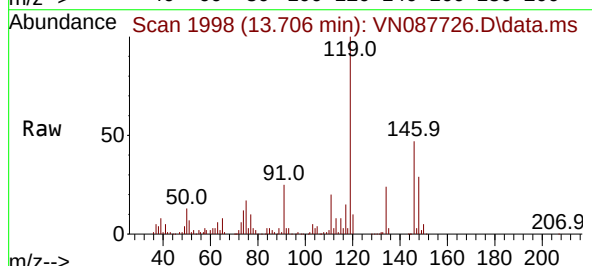
Tgt Ion:105 Resp: 22161  
Ion Ratio Lower Upper  
105 100  
134 18.5 0.0 37.0

Manual Integrations  
APPROVED

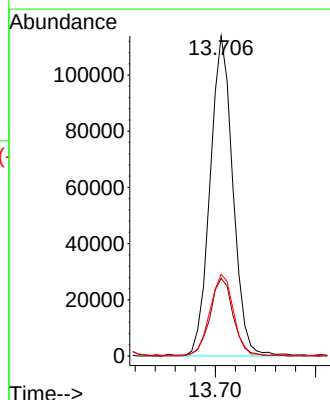
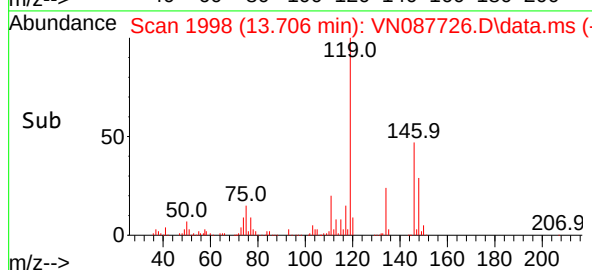
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



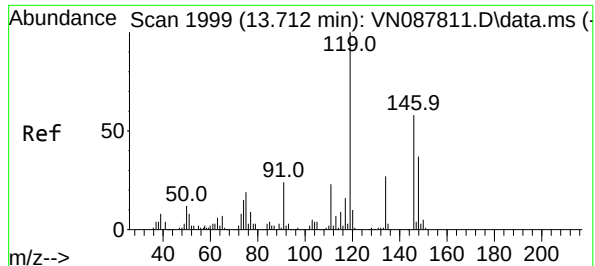
#82  
p-Isopropyltoluene  
Concen: 17.164 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44



Tgt Ion:119 Resp: 179893  
Ion Ratio Lower Upper  
119 100  
134 24.7 0.0 49.4  
91 26.1 0.0 52.2







#83

1,3-Dichlorobenzene

Concen: 19.181 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 104338

Ion Ratio Lower Upper

146 100

111 42.3 21.1 63.4

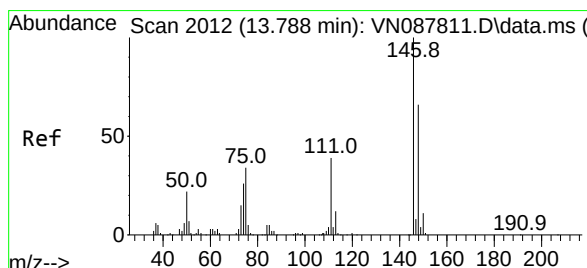
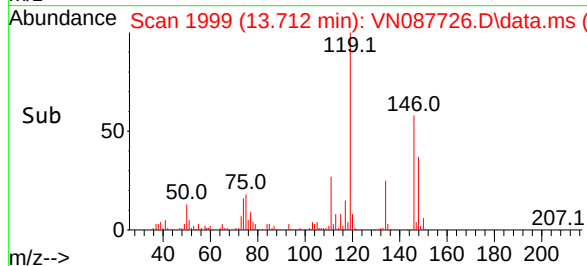
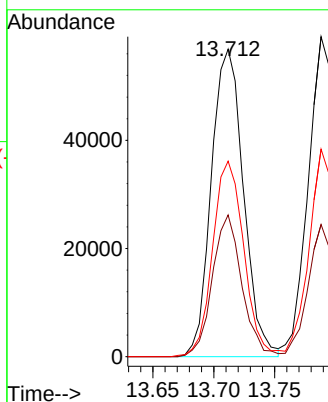
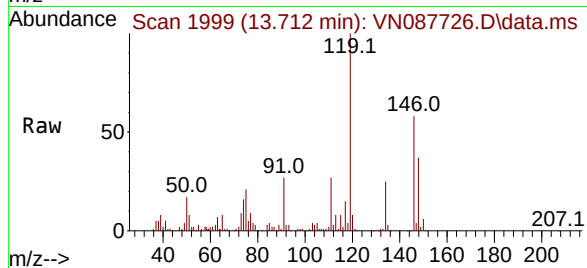
148 62.0 31.0 93.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 18.737 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

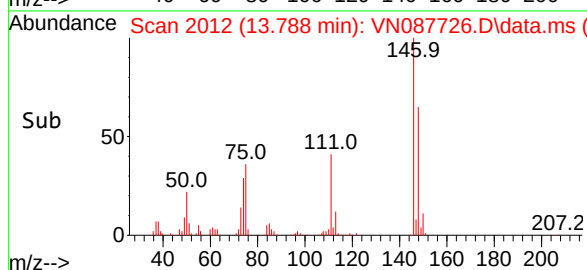
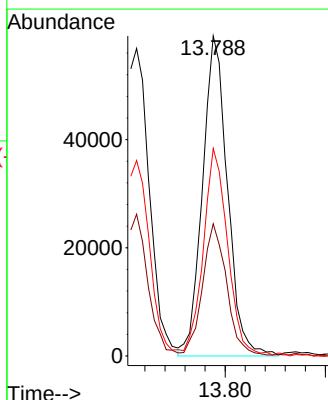
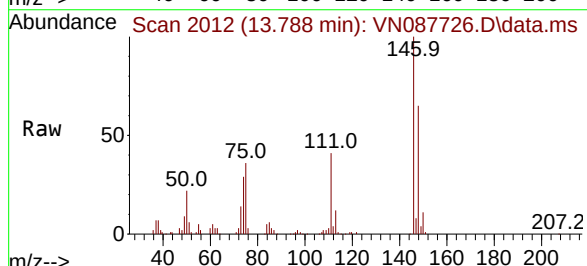
Tgt Ion:146 Resp: 102608

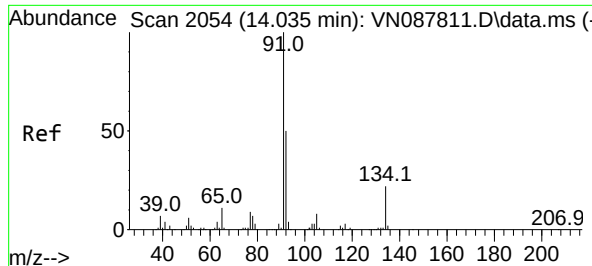
Ion Ratio Lower Upper

146 100

111 40.3 20.2 60.5

148 63.0 31.5 94.5





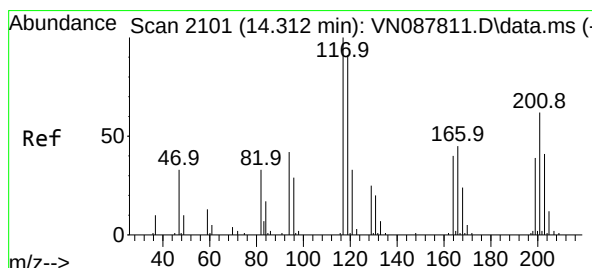
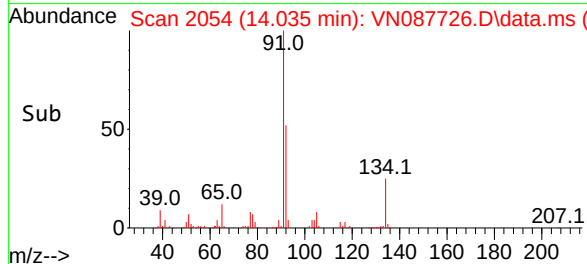
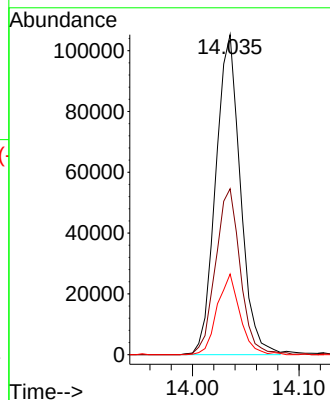
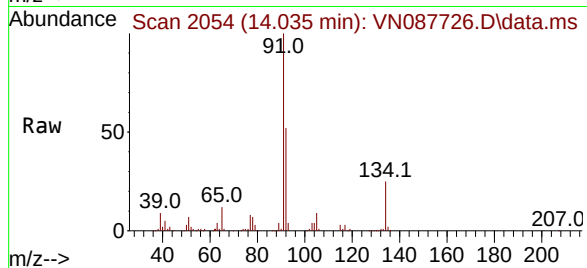
#85  
n-Butylbenzene  
Concen: 16.646 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 91 Resp: 16946  
Ion Ratio Lower Upper  
91 100  
92 52.0 0.0 104.0  
134 23.0 0.0 46.0

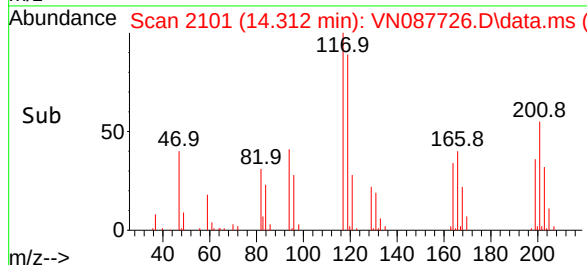
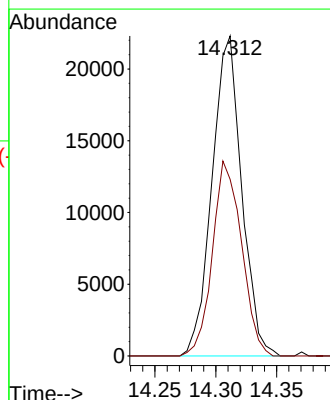
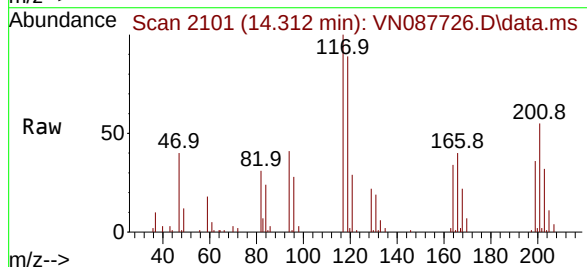
Manual Integrations  
APPROVED

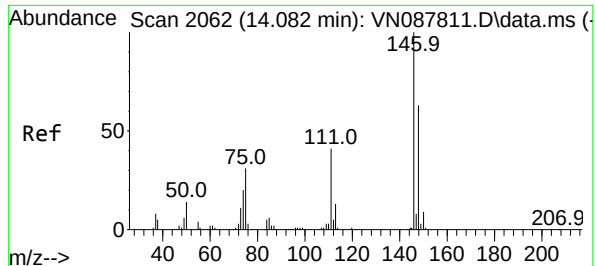
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86  
Hexachloroethane  
Concen: 18.193 ug/l  
RT: 14.312 min Scan# 2101  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion:117 Resp: 37845  
Ion Ratio Lower Upper  
117 100  
201 59.8 29.9 89.7





#87

1,2-Dichlorobenzene

Concen: 18.773 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

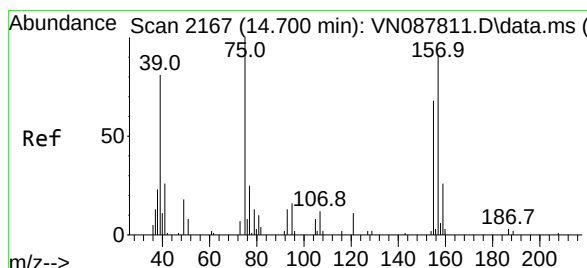
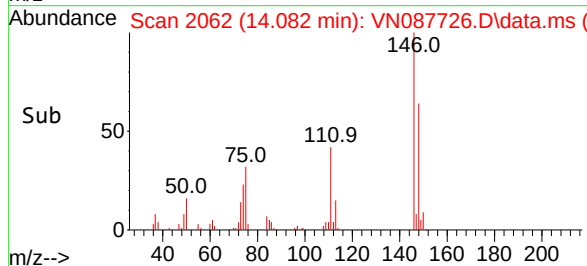
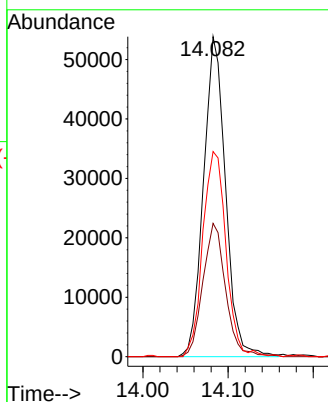
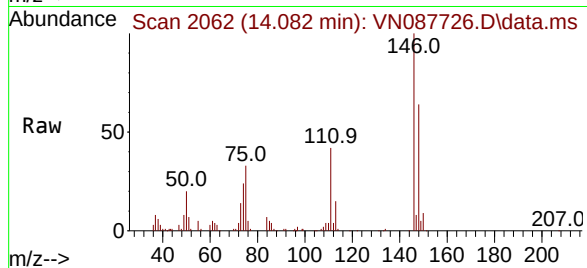
Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 9683  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 43.0  | 21.5  | 64.5  |
| 148       | 66.7  | 33.4  | 100.1 |

Manual Integrations  
APPROVEDReviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

#88

1,2-Dibromo-3-Chloropropane

Concen: 17.534 ug/l

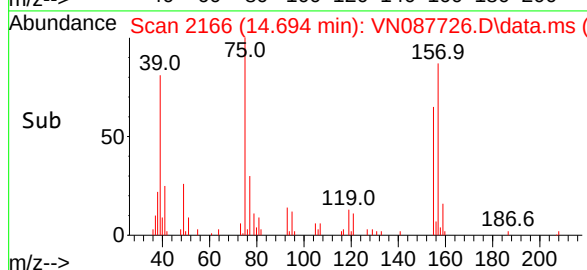
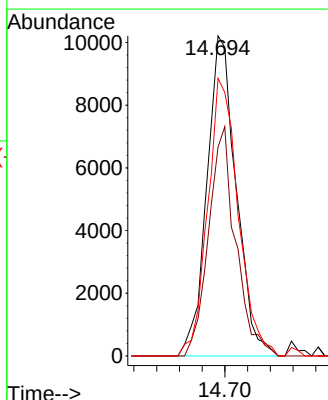
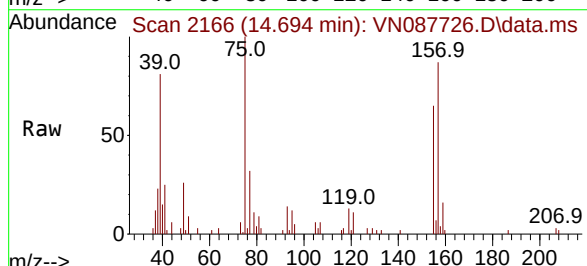
RT: 14.694 min Scan# 2166

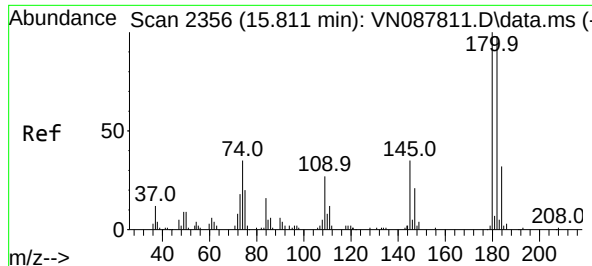
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 18320 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 66.2  | 53.0  | 79.4  |
| 157       | 90.3  | 72.2  | 108.4 |





#89

1,2,4-Trichlorobenzene

Concen: 17.337 ug/l

RT: 15.812 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

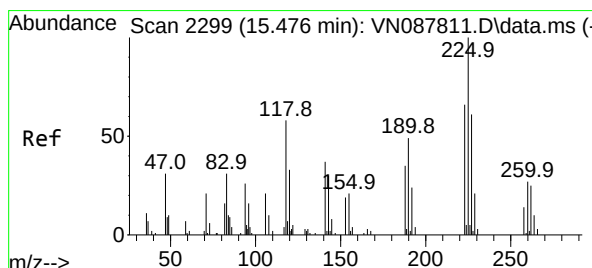
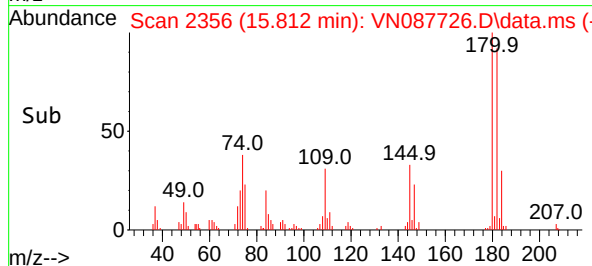
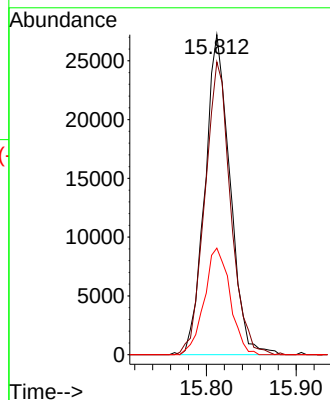
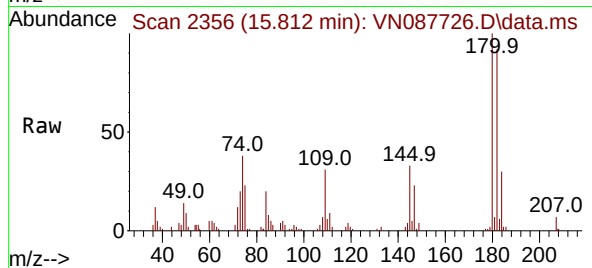
Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 52849      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 93.2  | 74.6 111.8 |
| 145         | 34.2  | 27.4 41.0  |

**Manual Integrations**  
**APPROVED**Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

#90

Hexachlorobutadiene

Concen: 16.481 ug/l

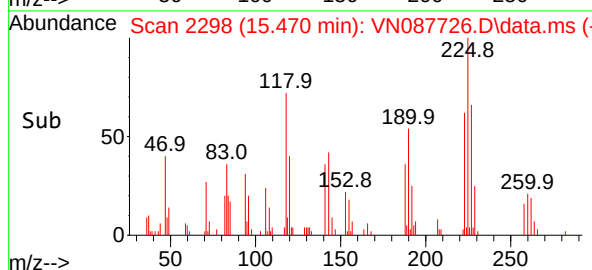
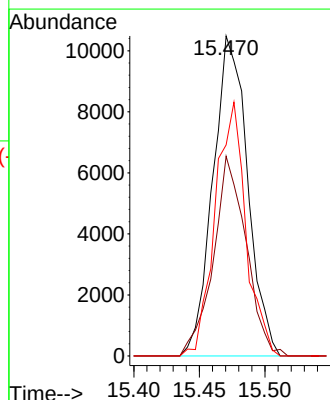
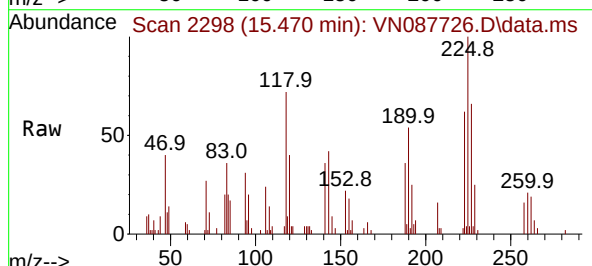
RT: 15.470 min Scan# 2298

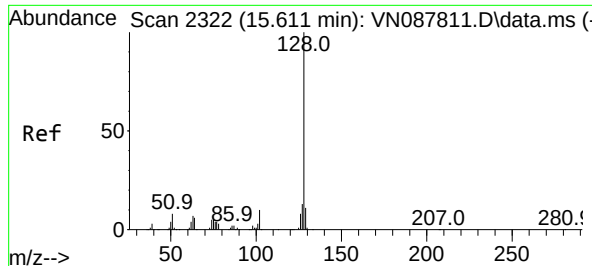
Delta R.T. 0.000 min

Lab File: VN087726.D

Acq: 04 Sep 2025 16:44

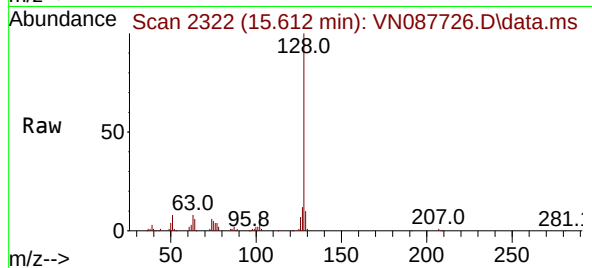
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 19260     |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 59.1  | 0.0 118.2 |
| 227         | 69.5  | 0.0 139.0 |





#91  
Naphthalene  
Concen: 16.595 ug/l  
RT: 15.612 min Scan# 2322  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

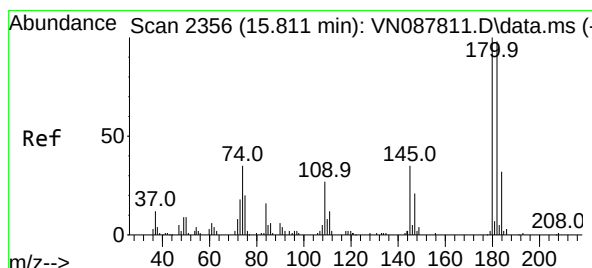
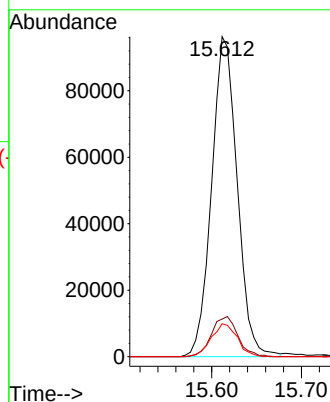
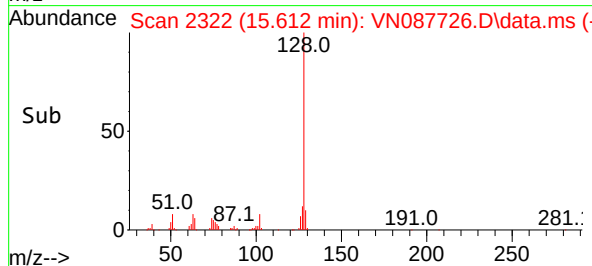
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020



Tgt Ion:128 Resp: 19067  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.4  
129 10.4 8.3 12.5

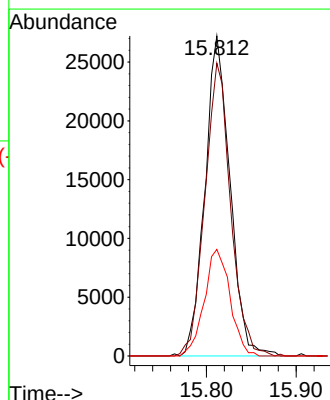
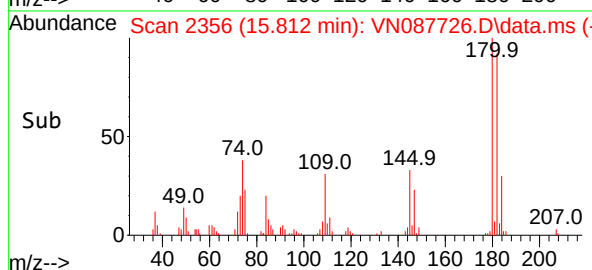
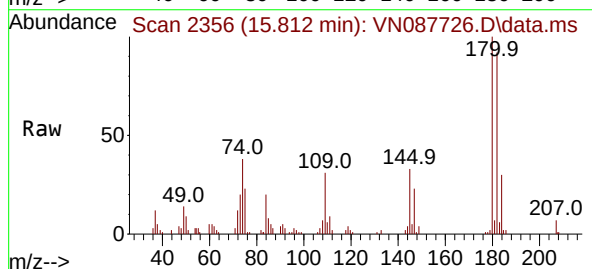
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 17.337 ug/l  
RT: 15.812 min Scan# 2356  
Delta R.T. 0.000 min  
Lab File: VN087726.D  
Acq: 04 Sep 2025 16:44

Tgt Ion:180 Resp: 52849  
Ion Ratio Lower Upper  
180 100  
182 93.2 0.0 186.4  
145 34.2 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087727.D  
 Acq On : 04 Sep 2025 17:05  
 Operator : JC\MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC050

## Manual Integrations

## APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:57:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 44084      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 235930     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 223338     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 114806     | 28.923   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 96.400%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 106071     | 27.928   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 93.100%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 310800     | 30.119   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.400% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 149532     | 53.681   | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 148881     | 52.361   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.536          | 62   | 175465     | 57.579   | ug/l   | 94       |
| 5) Bromomethane              | 2.977          | 94   | 97326      | 57.939   | ug/l   | 97       |
| 6) Chloroethane              | 3.142          | 64   | 115833     | 58.053   | ug/l   | 88       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 253094     | 57.285   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.965          | 74   | 105850     | 57.749   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 139857     | 60.848   | ug/l   | 78       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 140735     | 59.413   | ug/l   | 94       |
| 11) Methyl Iodide            | 4.577          | 142  | 99554      | 53.536   | ug/l   | 91       |
| 12) Methyl Acetate           | 5.018          | 43   | 216966     | 50.540   | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 182140     | 271.375  | ug/l # | 41       |
| 14) Acrylonitrile            | 5.706          | 53   | 460378     | 247.925  | ug/l   | 97       |
| 15) Acetone                  | 4.424          | 58   | 134357     | 255.056  | ug/l   | 97       |
| 16) Carbon Disulfide         | 4.706          | 76   | 381348     | 52.616   | ug/l # | 95       |
| 17) Allyl chloride           | 5.018          | 41   | 221421     | 47.360   | ug/l   | 97       |
| 18) Methylene Chloride       | 5.265          | 84   | 157997     | 52.875   | ug/l   | 88       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 143067     | 51.744   | ug/l   | 94       |
| 20) Diisopropyl ether        | 6.659          | 45   | 537577     | 50.467   | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.559          | 63   | 286450     | 51.711   | ug/l   | 94       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 173910     | 51.413   | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 160023     | 207.312  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 506717     | 48.821   | ug/l   | 96       |
| 25) Chloroform               | 7.947          | 83   | 304392     | 52.195   | ug/l   | 95       |
| 26) Cyclohexane              | 8.241          | 56   | 232867     | 53.159   | ug/l # | 95       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 199005     | 52.624   | ug/l   | 100      |
| 30) 2-Butanone               | 7.471          | 43   | 666350     | 243.287  | ug/l   | 97       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 238304     | 50.297   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 249576     | 51.457   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 208479     | 52.233   | ug/l   | 96       |
| 34) Benzene                  | 8.588          | 78   | 640994     | 53.450   | ug/l   | 95       |
| 35) Methacrylonitrile        | 7.759          | 41   | 140382     | 47.182   | ug/l   | 98       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 239430     | 50.083   | ug/l   | 98       |
| 37) Trichloroethene          | 9.335          | 130  | 142957     | 54.130   | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.582          | 83   | 220447     | 51.099   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 159981     | 52.056   | ug/l   | 99       |
| 40) Dibromomethane           | 9.688          | 93   | 120754     | 52.549   | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.871          | 83   | 242124     | 50.456   | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.589          | 43   | 2296328    | 254.840  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087727.D  
 Acq On : 04 Sep 2025 17:05  
 Operator : JC\MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC050

## Manual Integrations

## APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:57:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 276887   | 51.296  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 438553   | 48.838  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 9.677  | 88   | 53248    | 926.233 | ug/l  | 95       |
| 46) Methyl methacrylate       | 9.659  | 41   | 202256   | 48.120  | ug/l  | 98       |
| 47) n-amyl Acetate            | 12.500 | 43   | 299916m  | 57.443  | ug/l  |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 256762   | 50.194  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 266622   | 51.643  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 156835   | 53.732  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 260502   | 52.305  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 273053   | 52.180  | ug/l  | 100      |
| 53) Dibromochloromethane      | 11.341 | 129  | 178488   | 53.720  | ug/l  | 94       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 165403   | 53.777  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 667057   | 247.892 | ug/l  | 99       |
| 56) Bromoform                 | 12.559 | 173  | 113619   | 51.614  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 1366907  | 247.352 | ug/l  | 100      |
| 59) 2-Hexanone                | 11.176 | 43   | 945587   | 252.664 | ug/l  | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 110439   | 51.225  | ug/l  | 98       |
| 62) Toluene                   | 10.606 | 91   | 695370   | 51.744  | ug/l  | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 419478   | 50.870  | ug/l  | 95       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 148563   | 51.179  | ug/l  | 97       |
| 66) Ethyl Benzene             | 11.941 | 91   | 760061   | 51.315  | ug/l  | 95       |
| 67) m/p-Xylenes               | 12.047 | 106  | 578021   | 106.025 | ug/l  | 94       |
| 68) o-Xylene                  | 12.376 | 106  | 272027   | 50.584  | ug/l  | 94       |
| 69) Styrene                   | 12.388 | 104  | 488107   | 53.357  | ug/l  | 100      |
| 70) Isopropylbenzene          | 12.670 | 105  | 705735   | 52.168  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 247798   | 52.498  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 227694m  | 51.707  | ug/l  |          |
| 73) Bromobenzene              | 12.959 | 156  | 164633   | 51.479  | ug/l  | 97       |
| 74) n-propylbenzene           | 13.012 | 91   | 894796   | 52.574  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 542010   | 51.771  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.147 | 105  | 601688   | 51.829  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 83260    | 50.352  | ug/l  | 85       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 555670   | 52.151  | ug/l  | 97       |
| 79) tert-butylbenzene         | 13.417 | 119  | 505286   | 51.663  | ug/l  | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 624111   | 53.295  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 739231   | 51.833  | ug/l  | 98       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 616043   | 52.179  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 330543   | 53.944  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 332962   | 53.977  | ug/l  | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 598838   | 52.220  | ug/l  | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 122090   | 52.103  | ug/l  | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 312431   | 53.771  | ug/l  | 97       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 54360    | 46.188  | ug/l  | 93       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 175450   | 51.096  | ug/l  | 96       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 57621    | 43.773  | ug/l  | 92       |
| 91) Naphthalene               | 15.611 | 128  | 656553   | 50.727  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 175450   | 51.096  | ug/l  | 96       |

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



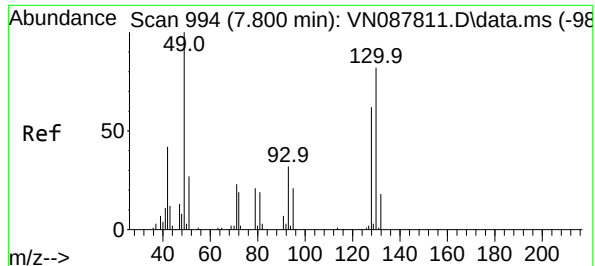
**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC050

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025







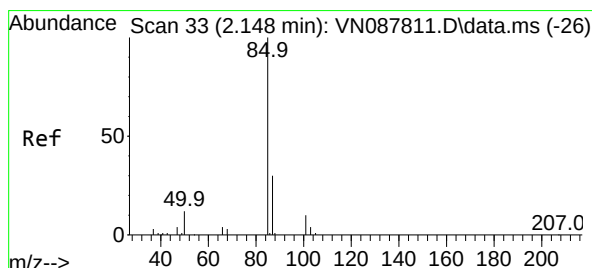
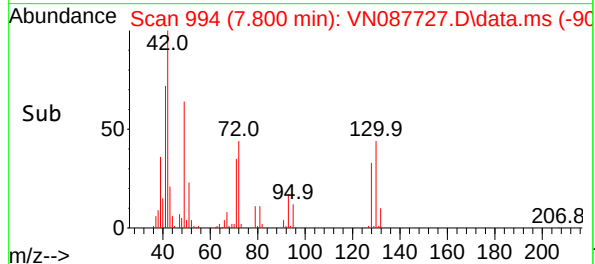
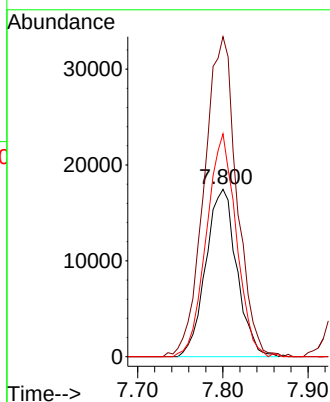
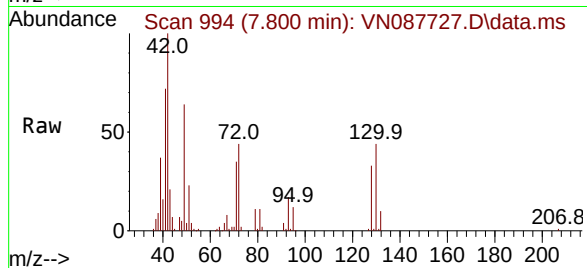
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 202.0 | 0.0   | 464.3 |
| 130     | 127.8 | 0.0   | 300.5 |

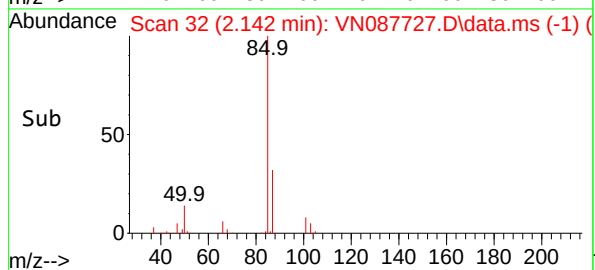
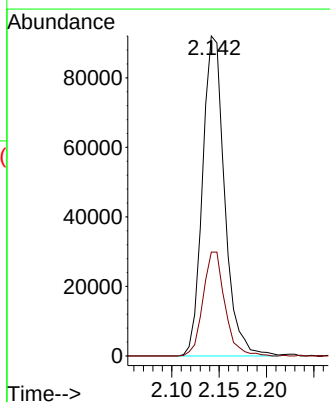
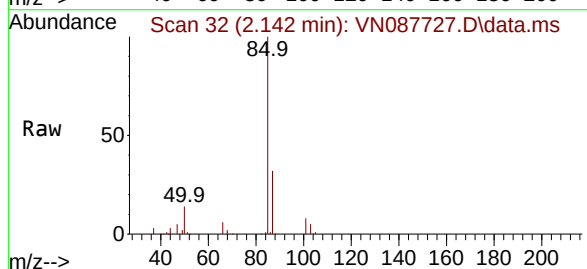
Manual Integrations  
APPROVED

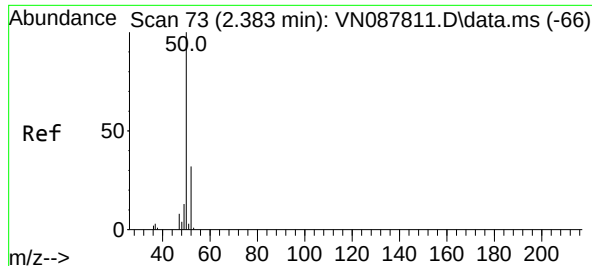
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 53.681 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.4  | 16.8  | 50.4  |





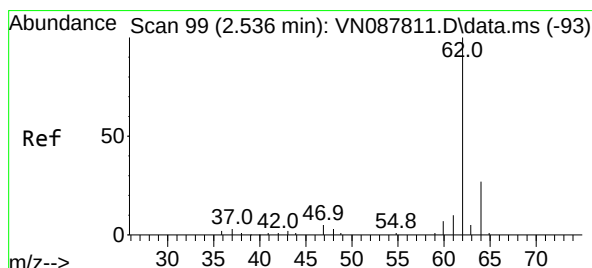
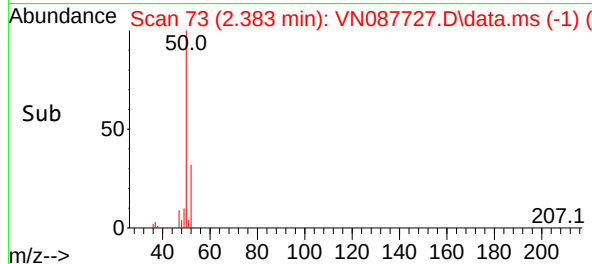
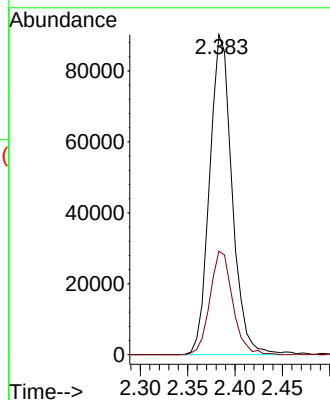
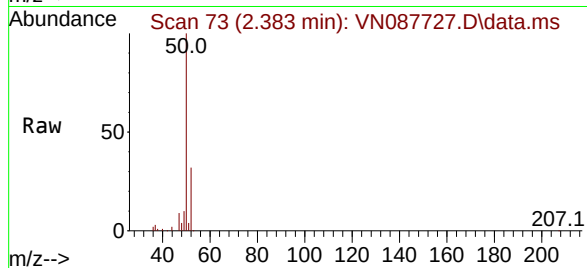
#3  
Chloromethane  
Concen: 52.361 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 50 Resp: 14888  
Ion Ratio Lower Upper  
50 100  
52 32.4 26.6 40.0

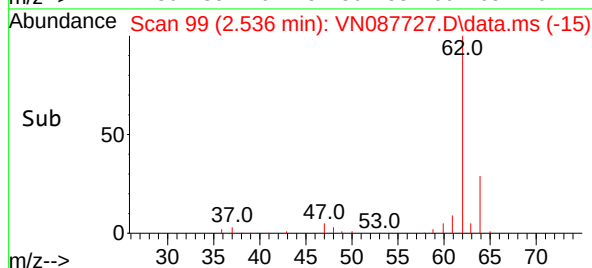
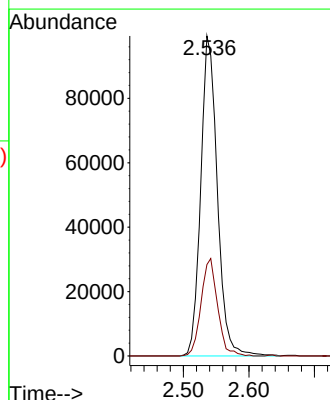
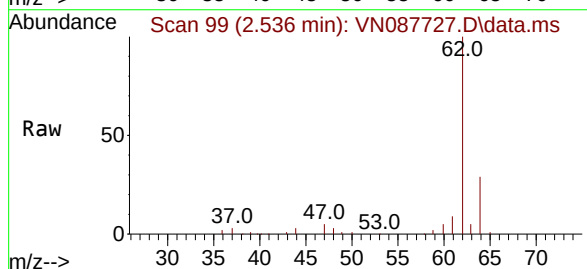
Manual Integrations  
APPROVED

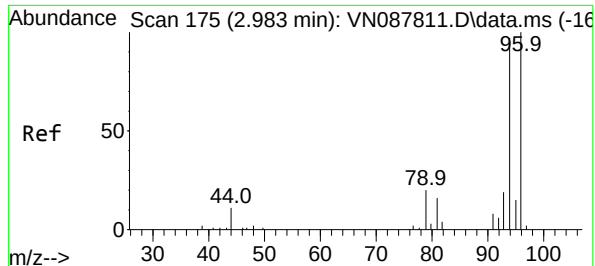
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 57.579 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 62 Resp: 175465  
Ion Ratio Lower Upper  
62 100  
64 28.6 25.5 38.3





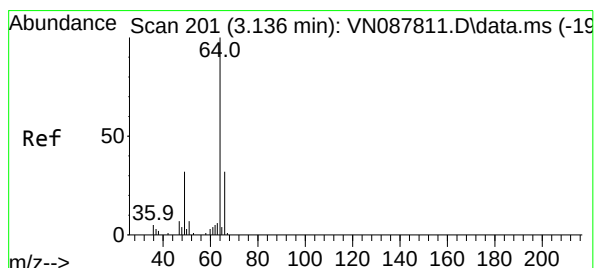
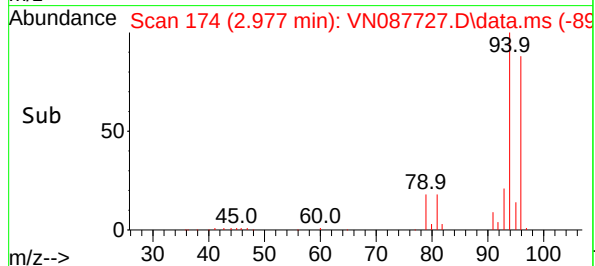
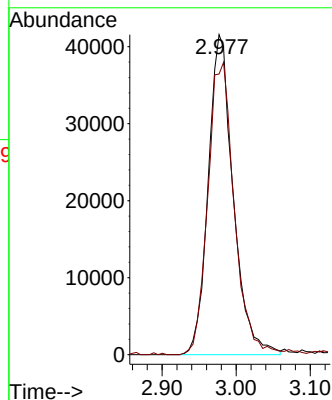
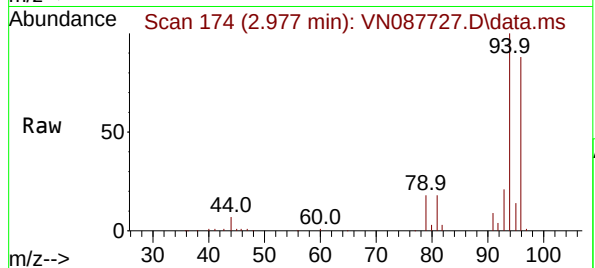
#5  
Bromomethane  
Concen: 57.939 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 94 Resp: 97320  
Ion Ratio Lower Upper  
94 100  
96 87.7 72.2 108.4

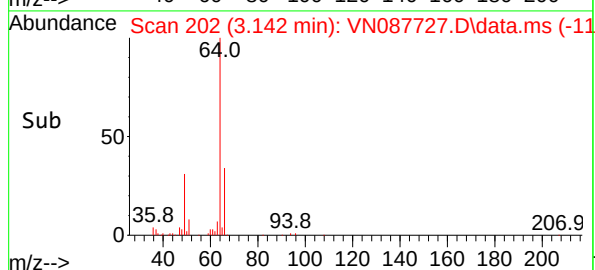
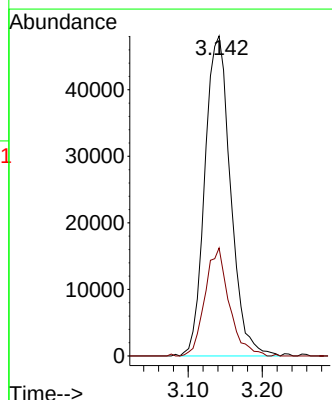
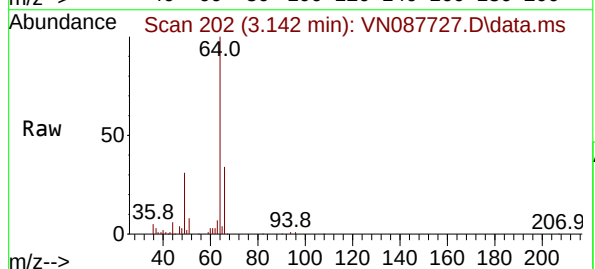
Manual Integrations  
APPROVED

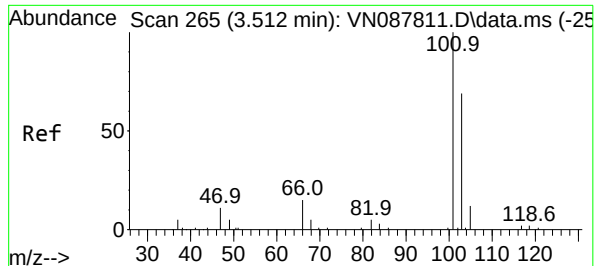
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 58.053 ug/l  
RT: 3.142 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

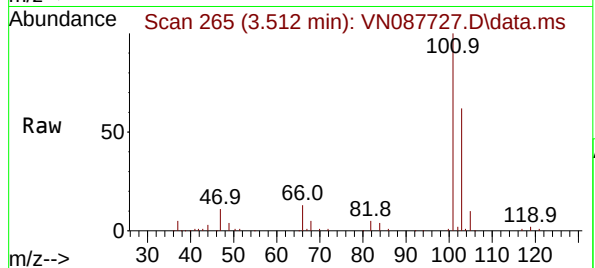
Tgt Ion: 64 Resp: 115833  
Ion Ratio Lower Upper  
64 100  
66 33.8 32.8 49.2





#7  
Trichlorofluoromethane  
Concen: 57.285 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

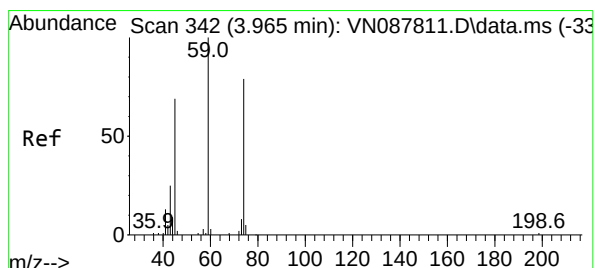
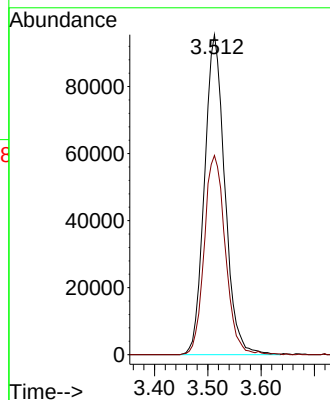
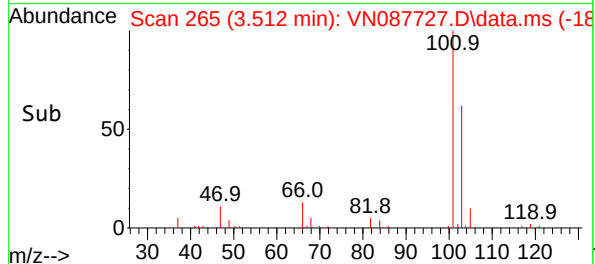
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion:101 Resp: 253094  
Ion Ratio Lower Upper  
101 100  
103 62.3 45.7 68.5

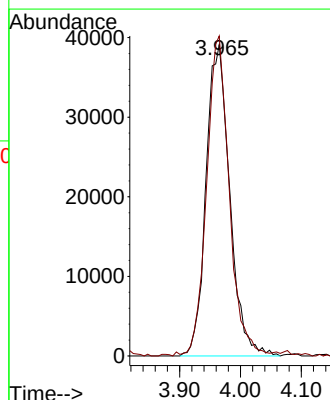
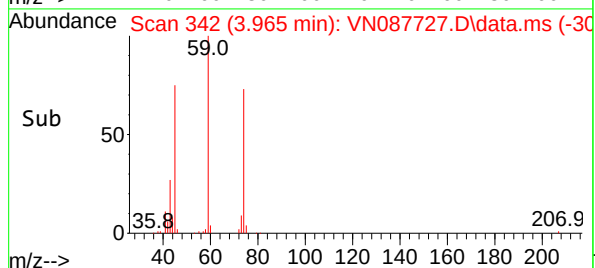
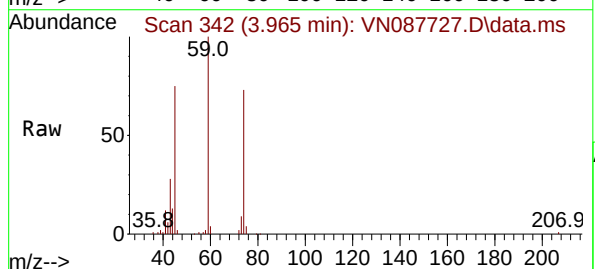
Manual Integrations  
APPROVED

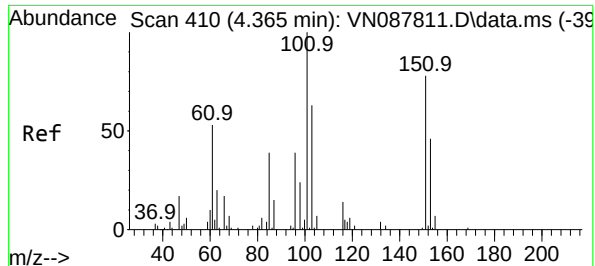
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 57.749 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.012 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 74 Resp: 105850  
Ion Ratio Lower Upper  
74 100  
45 97.9 20.4 183.8





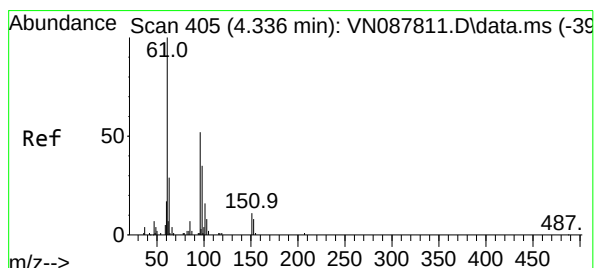
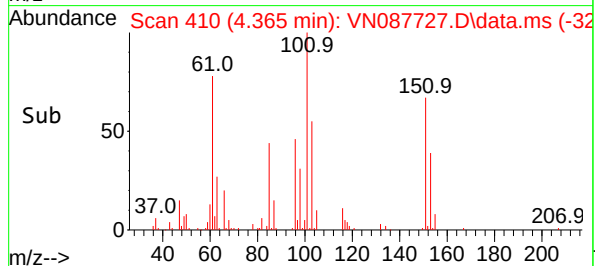
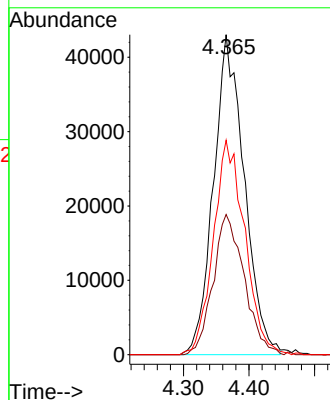
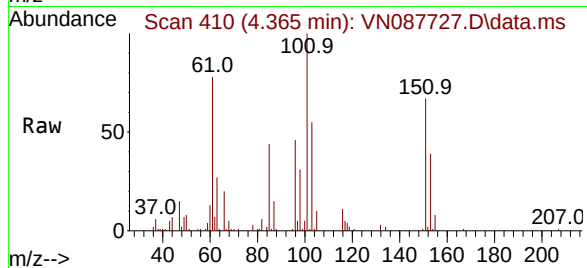
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1,1,2-Trichlorotrifluoroethane  
Concen: 60.848 ug/l  
RT: 4.365 min Scan# 410  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:101 Resp: 13985  
Ion Ratio Lower Upper  
101 100  
85 44.4 0.0 95.6  
151 68.6 0.0 85.8

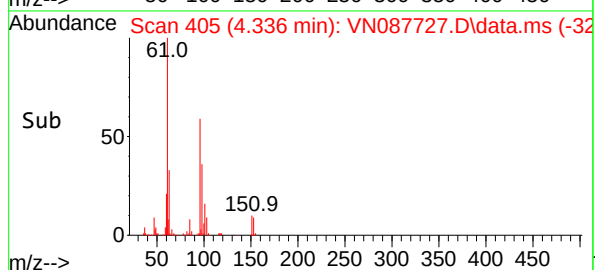
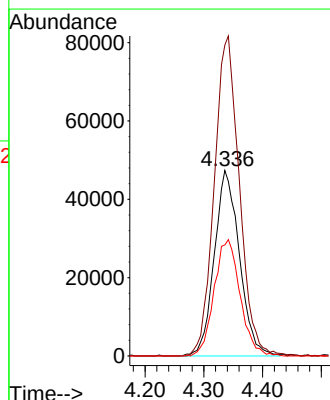
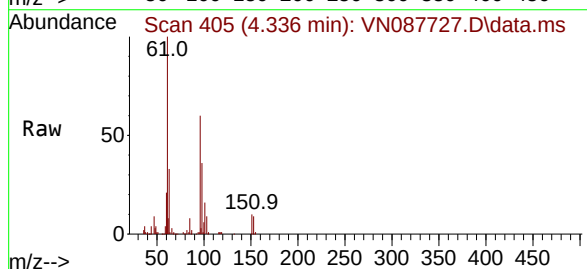
Manual Integrations  
APPROVED

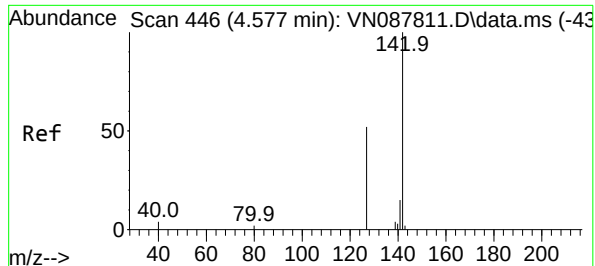
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#10  
1,1-Dichloroethene  
Concen: 59.413 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 96 Resp: 140735  
Ion Ratio Lower Upper  
96 100  
61 167.7 135.9 203.9  
98 59.9 59.2 88.8





#11

Methyl Iodide

Concen: 53.536 ug/l

RT: 4.577 min Scan# 446

Delta R.T. -0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

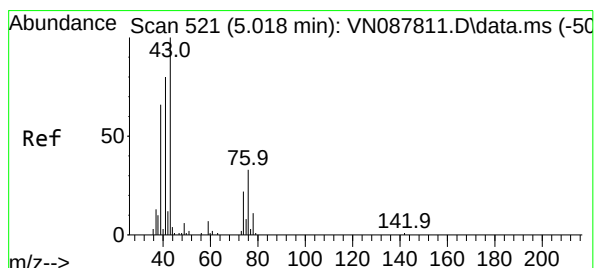
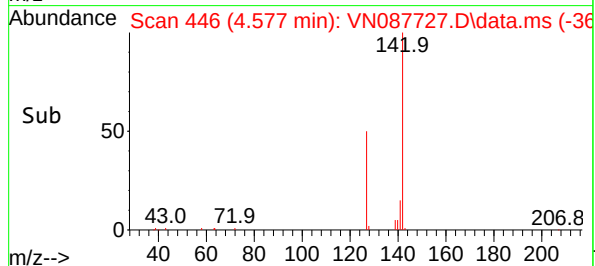
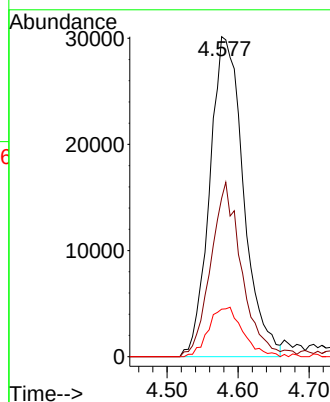
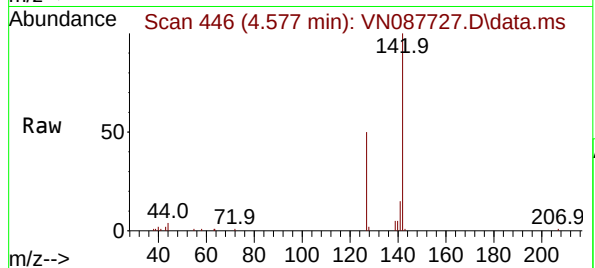
ClientSampleId :

VSTDICC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 99554 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 49.6  | 27.9  | 83.7  |
| 141      | 15.1  | 9.6   | 28.8  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 50.540 ug/l

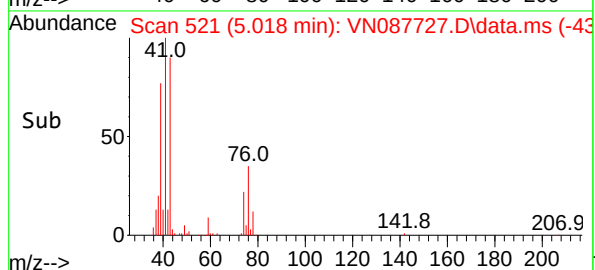
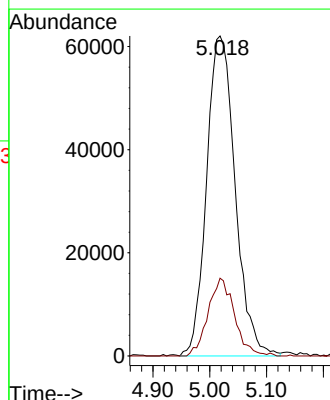
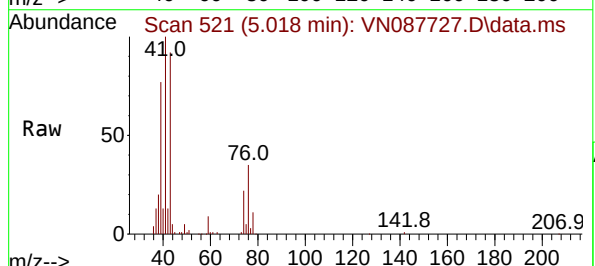
RT: 5.018 min Scan# 521

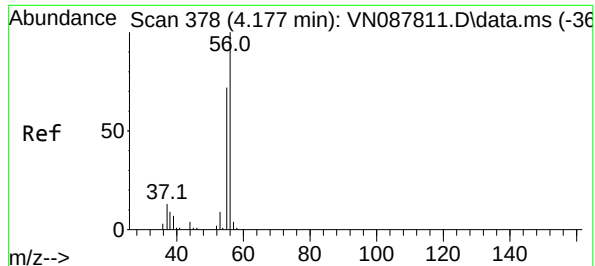
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 216966 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 74       | 24.4  | 17.5  | 26.3   |





#13

Acrolein

Concen: 271.375 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 56 Resp: 182140

Ion Ratio Lower Upper

56 100

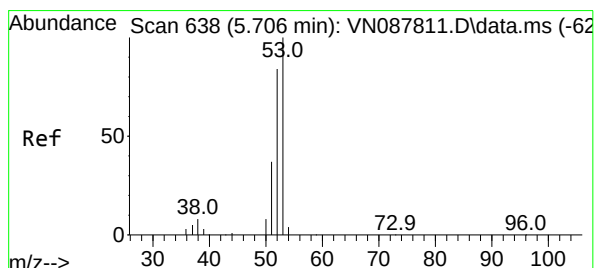
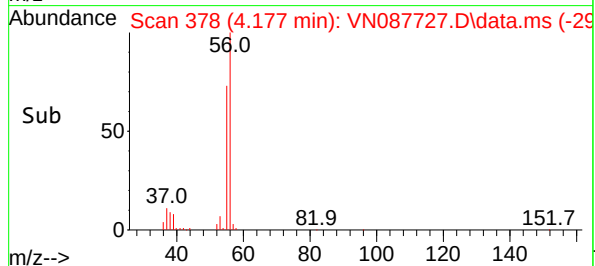
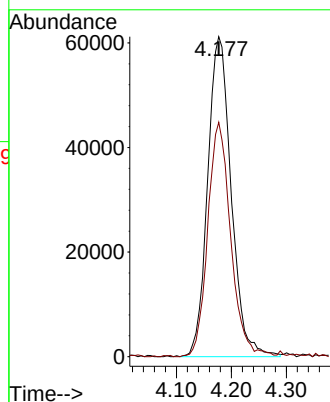
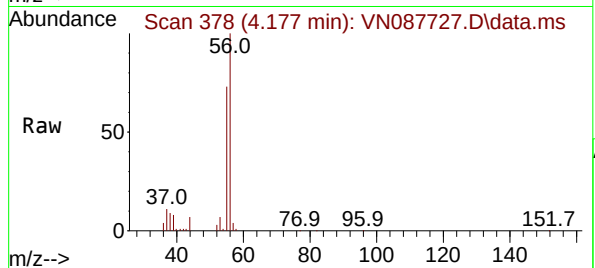
55 70.3 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 247.925 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.012 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

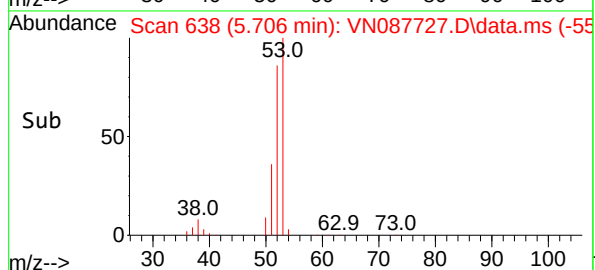
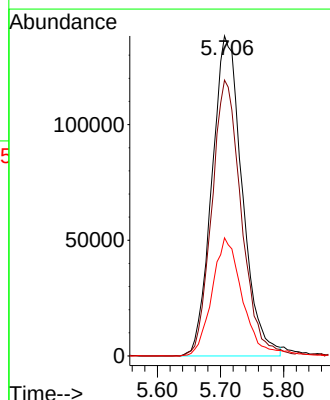
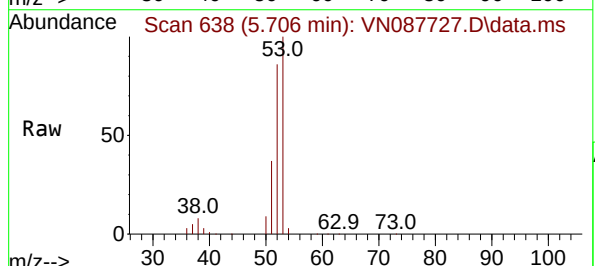
Tgt Ion: 53 Resp: 460378

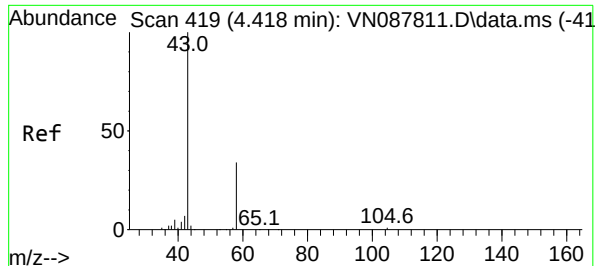
Ion Ratio Lower Upper

53 100

52 84.1 40.9 122.7

51 37.5 18.1 54.1





#15

Acetone

Concen: 255.056 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 58 Resp: 13435

Ion Ratio Lower Upper

58 100

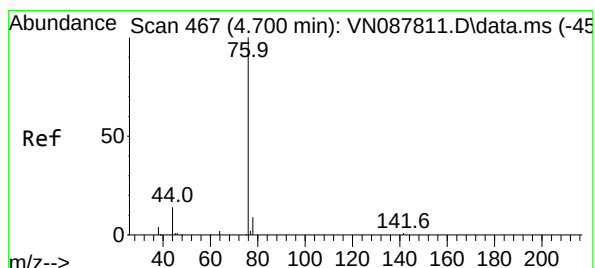
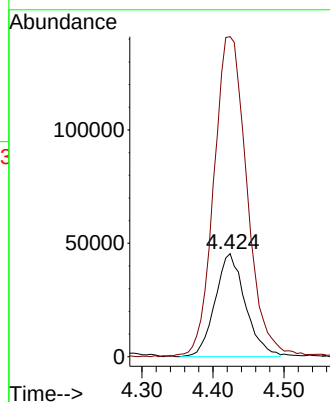
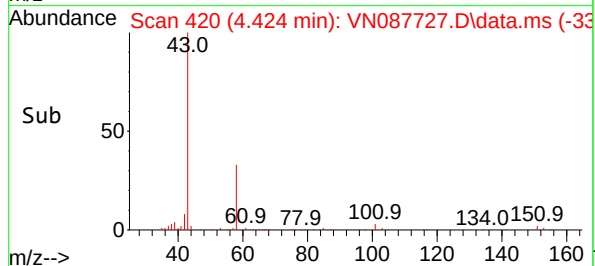
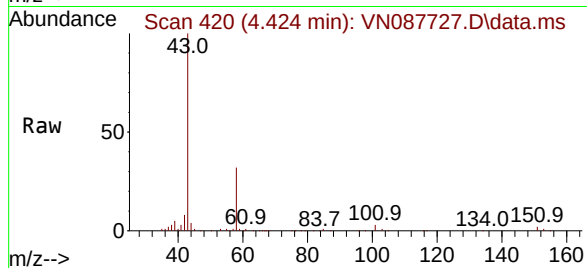
43 308.0 250.6 376.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#16

Carbon Disulfide

Concen: 52.616 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN087727.D

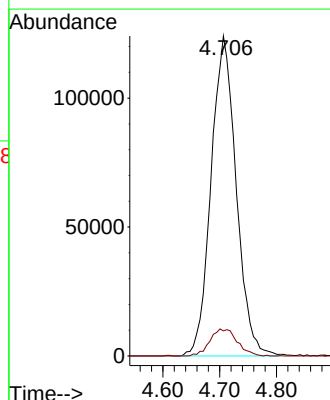
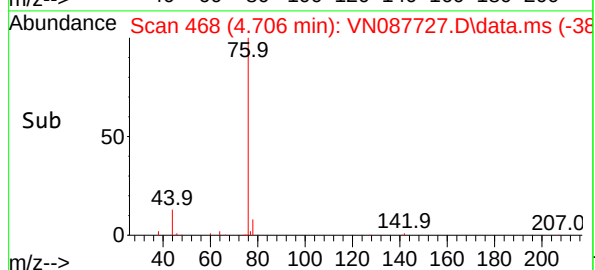
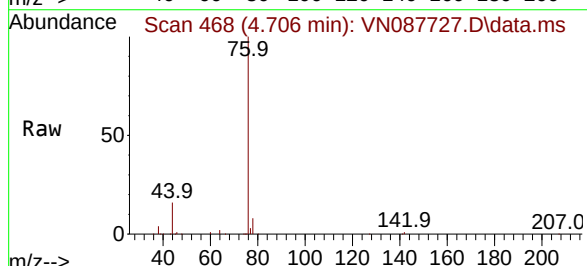
Acq: 04 Sep 2025 17:05

Tgt Ion: 76 Resp: 381348

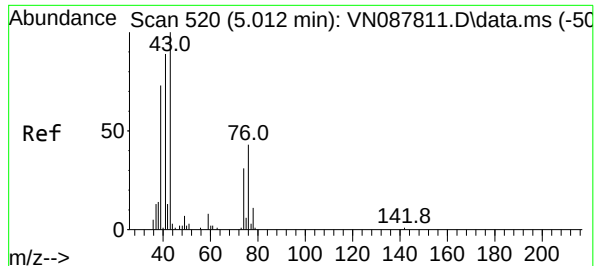
Ion Ratio Lower Upper

76 100

78 7.9 5.0 7.6#







#17

Allyl chloride

Concen: 47.360 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 41 Resp: 22142

Ion Ratio Lower Upper

41 100

39 76.9 36.7 110.1

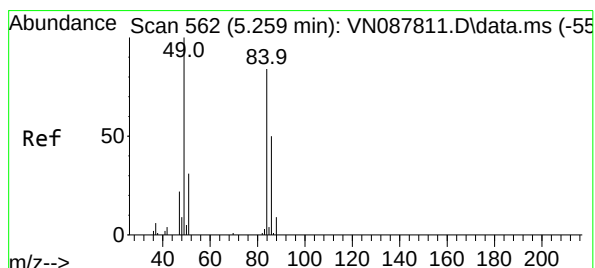
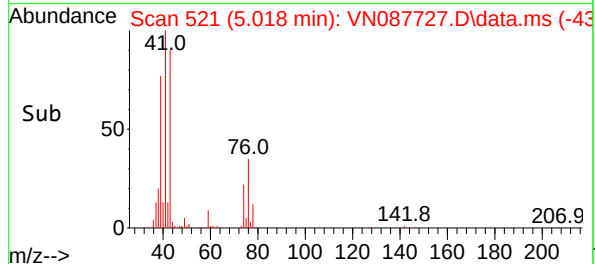
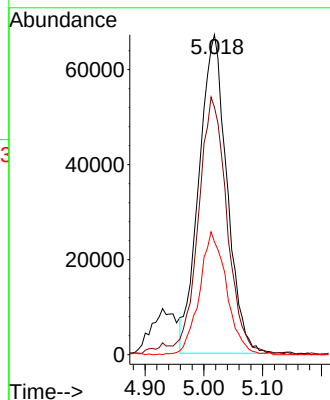
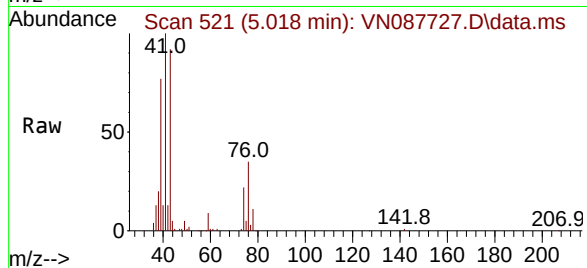
76 35.4 18.3 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 52.875 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Tgt Ion: 84 Resp: 157997

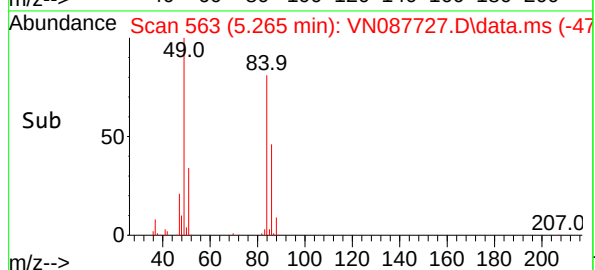
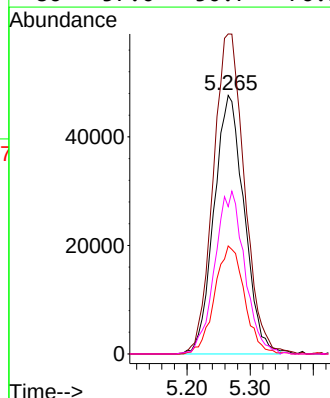
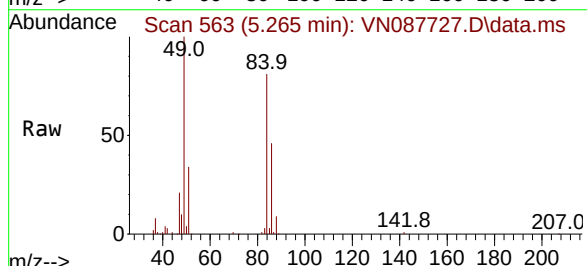
Ion Ratio Lower Upper

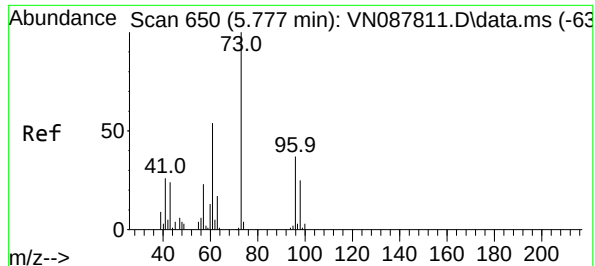
84 100

49 123.4 114.1 171.1

51 41.8 30.2 45.4

86 57.0 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 51.744 ug/l

RT: 5.777 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 96 Resp: 14306

Ion Ratio Lower Upper

96 100

61 143.7 106.4 159.6

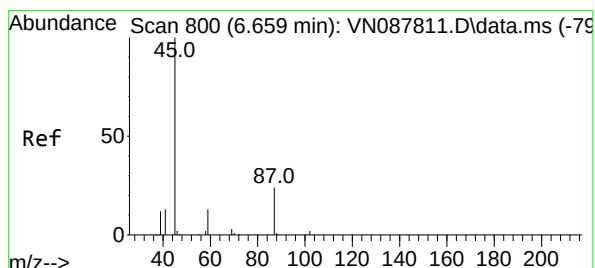
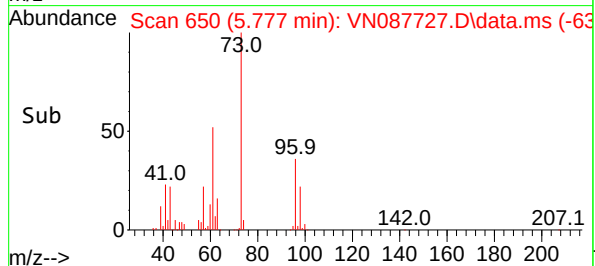
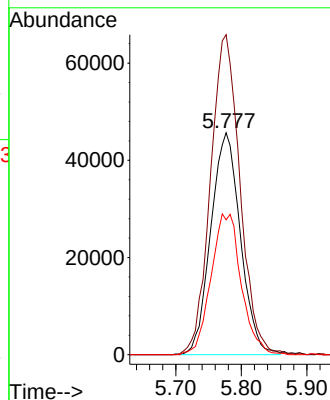
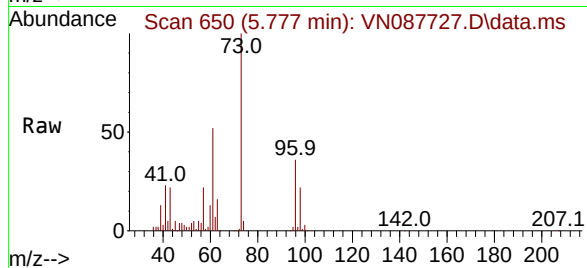
98 60.8 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 50.467 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Tgt Ion: 45 Resp: 537577

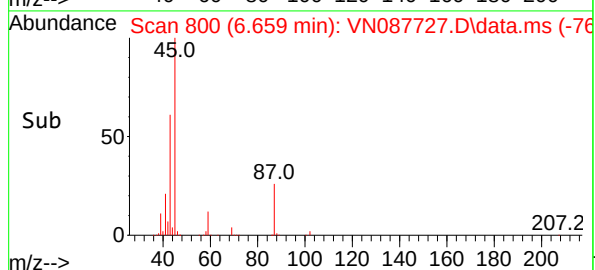
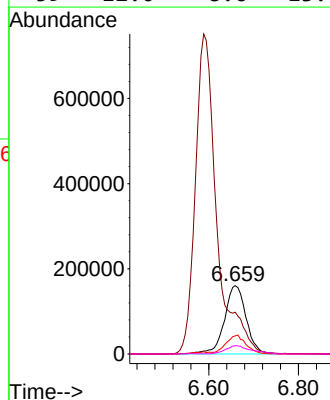
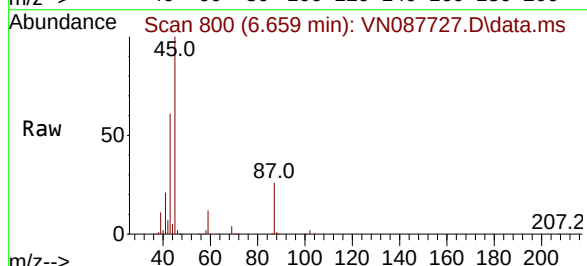
Ion Ratio Lower Upper

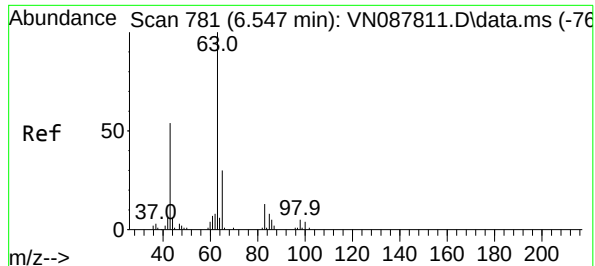
45 100

43 60.4 49.5 74.3

87 26.5 18.8 28.2

59 12.0 8.6 13.0





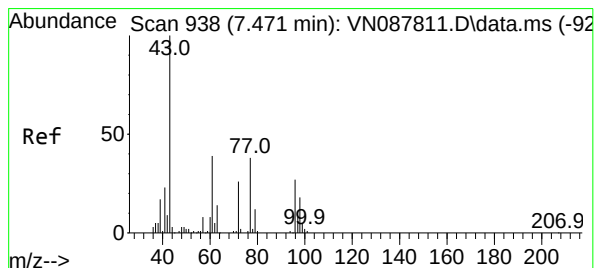
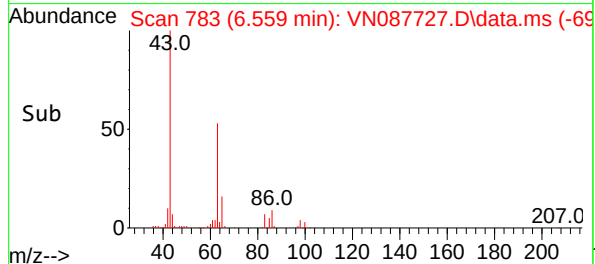
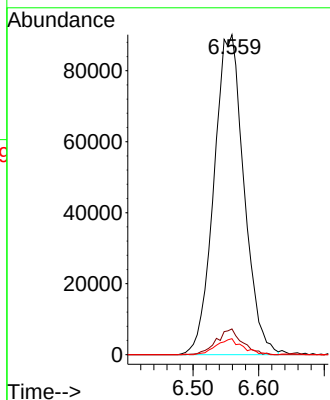
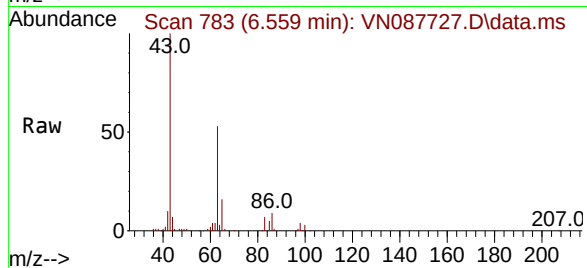
#21  
1,1-Dichloroethane  
Concen: 51.711 ug/l  
RT: 6.559 min Scan# 781  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 63 Resp: 286450  
Ion Ratio Lower Upper  
63 100  
98 8.0 2.9 8.8  
100 5.0 1.8 5.3

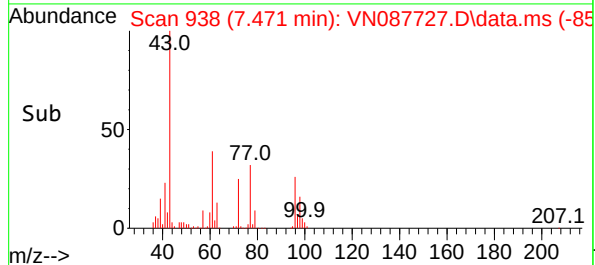
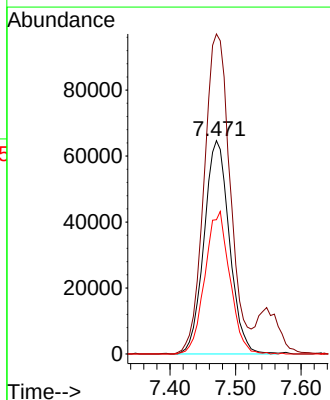
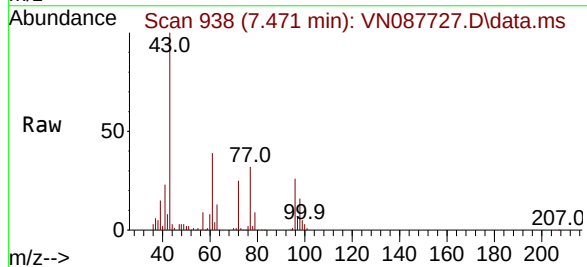
Manual Integrations  
APPROVED

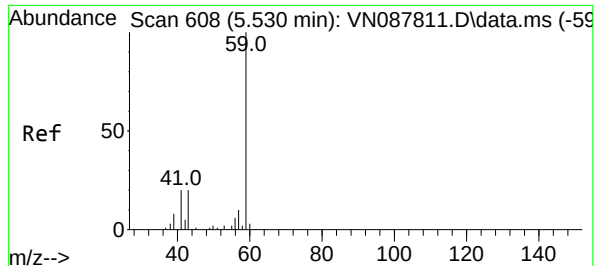
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22  
cis-1,2-Dichloroethene  
Concen: 51.413 ug/l  
RT: 7.471 min Scan# 938  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 96 Resp: 173910  
Ion Ratio Lower Upper  
96 100  
61 154.3 118.2 177.2  
98 65.7 51.6 77.4





#23

tert-Butyl Alcohol

Concen: 207.312 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 59 Resp: 160023

Ion Ratio Lower Upper

59 100

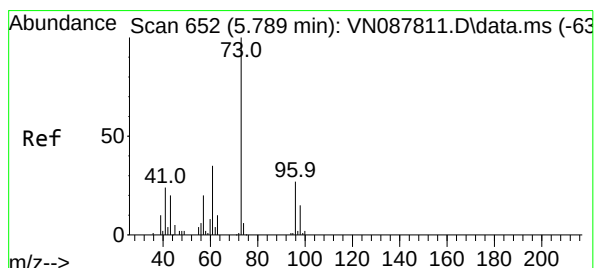
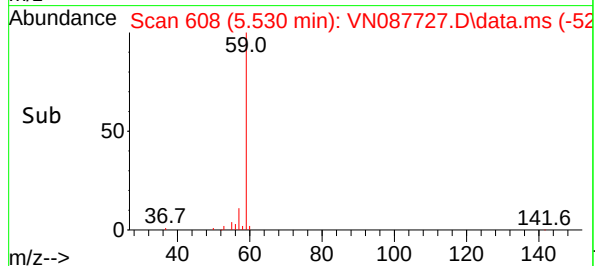
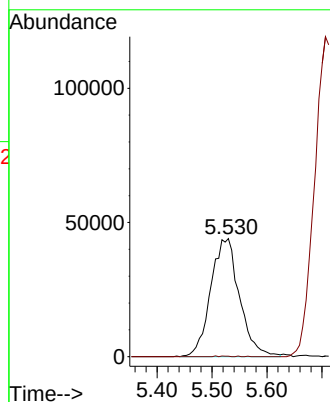
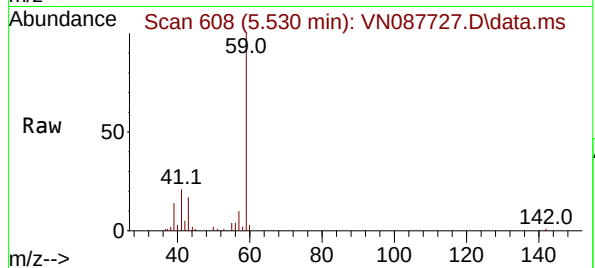
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#24

Methyl tert-Butyl Ether

Concen: 48.821 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087727.D

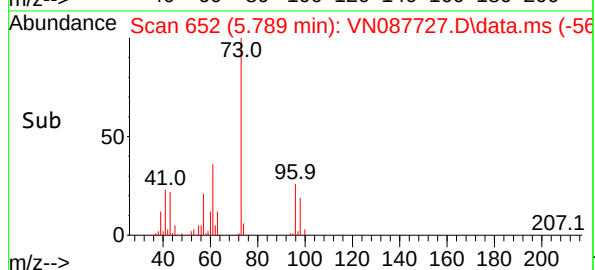
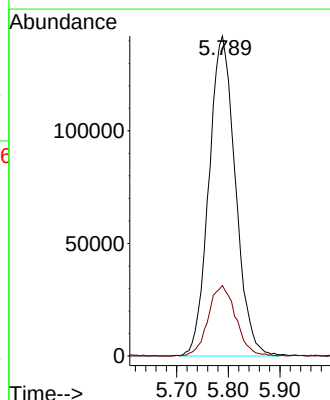
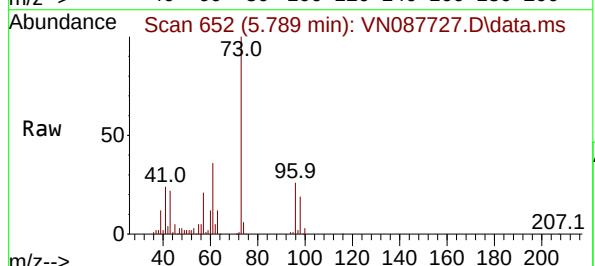
Acq: 04 Sep 2025 17:05

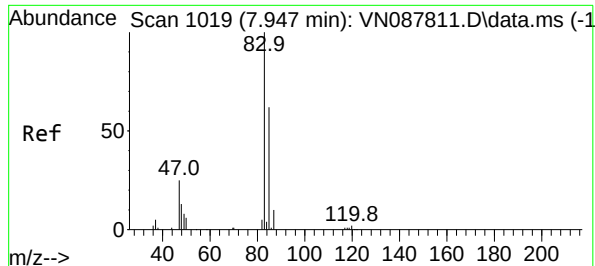
Tgt Ion: 73 Resp: 506717

Ion Ratio Lower Upper

73 100

43 22.8 16.8 25.2





#25

Chloroform

Concen: 52.195 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 304392

Ion Ratio Lower Upper

83 100

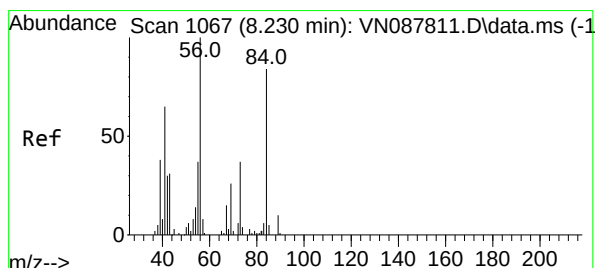
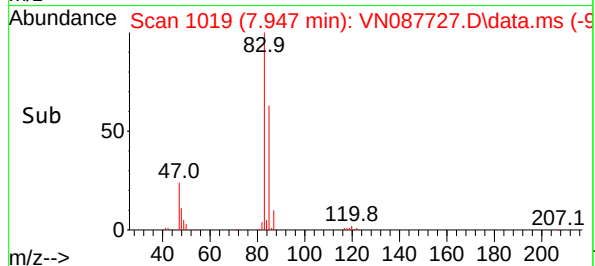
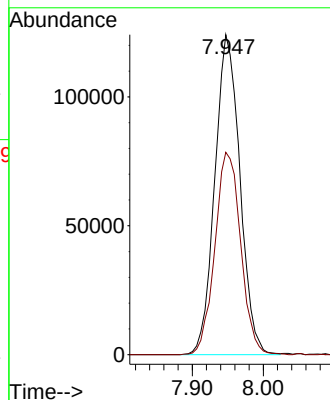
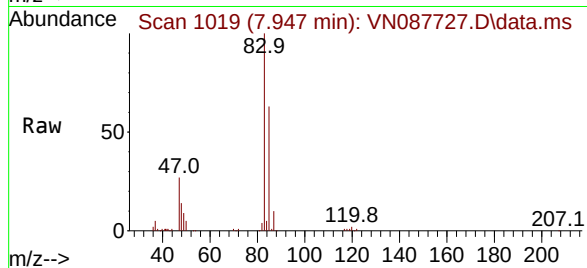
85 63.3 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 53.159 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

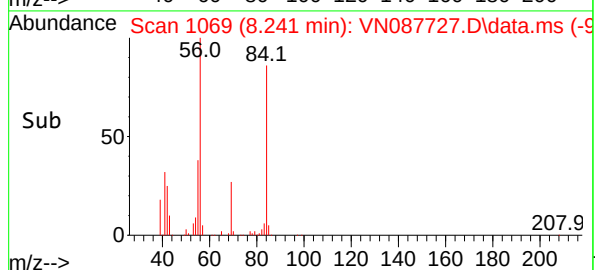
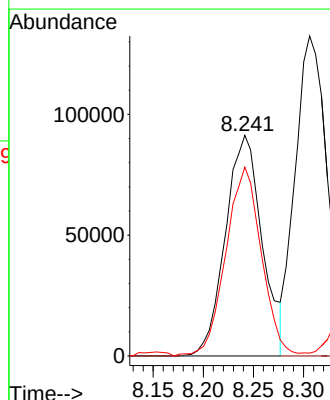
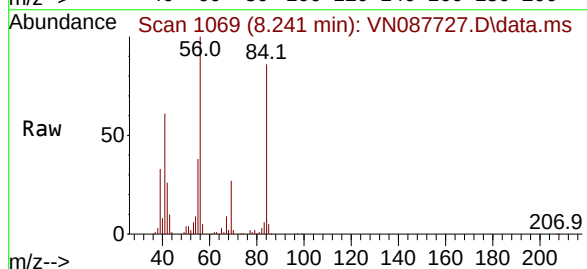
Tgt Ion: 56 Resp: 232867

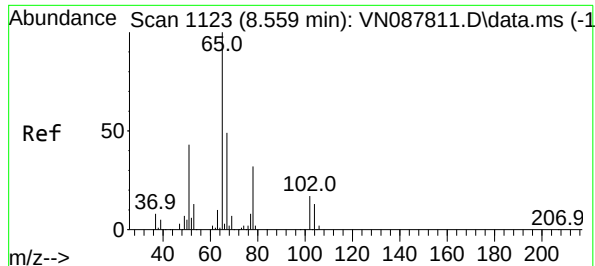
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 82.5 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 28.923 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 65 Resp: 114800

Ion Ratio Lower Upper

65 100

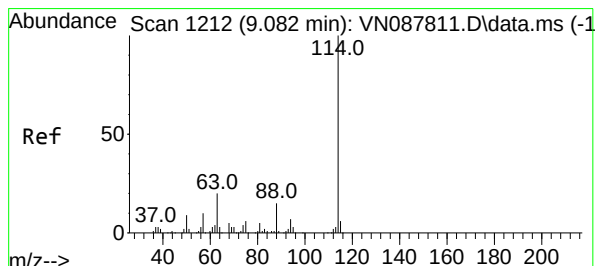
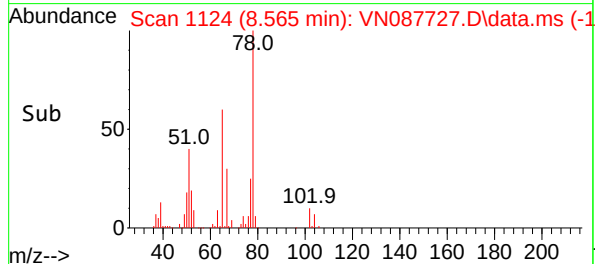
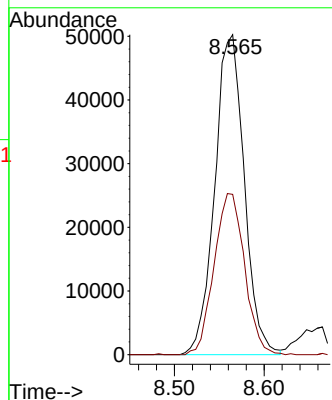
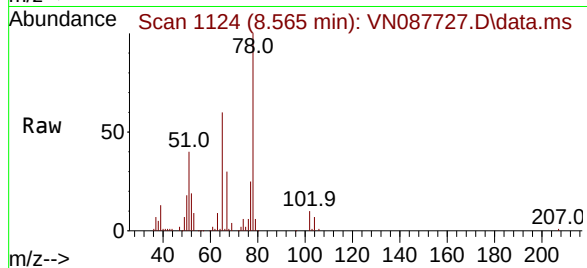
67 51.9 39.6 59.4

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: VN087727.D

Acq: 04 Sep 2025 17:05

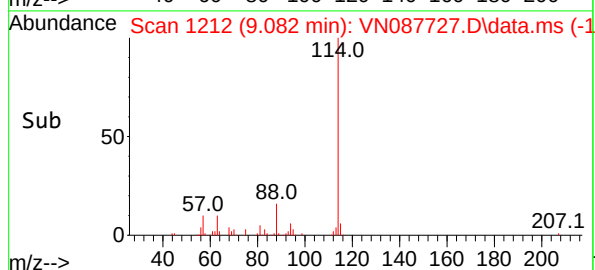
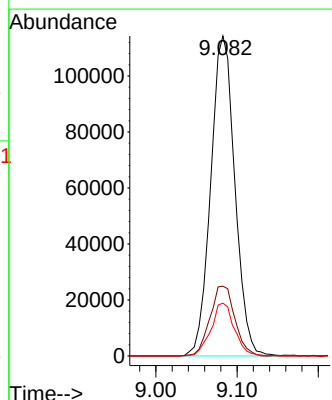
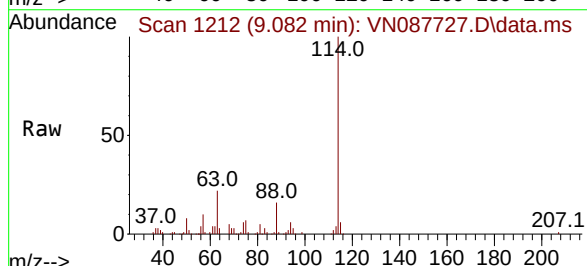
Tgt Ion:114 Resp: 235930

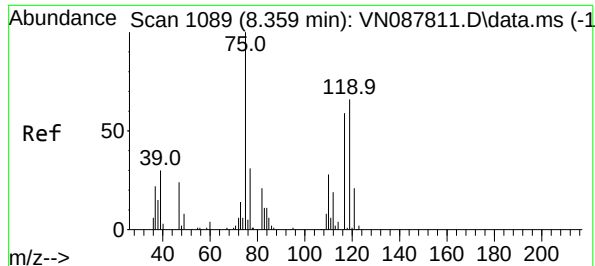
Ion Ratio Lower Upper

114 100

63 22.6 18.3 27.5

88 15.9 12.4 18.6





#29

1,1-Dichloropropene

Concen: 52.624 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

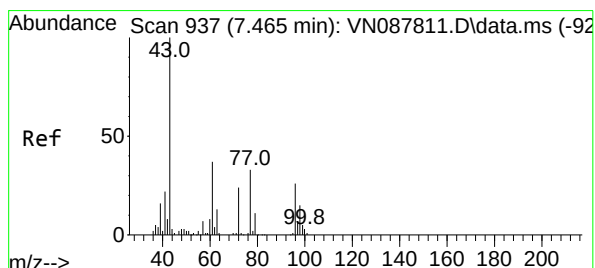
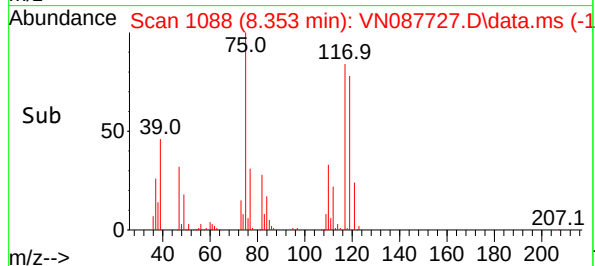
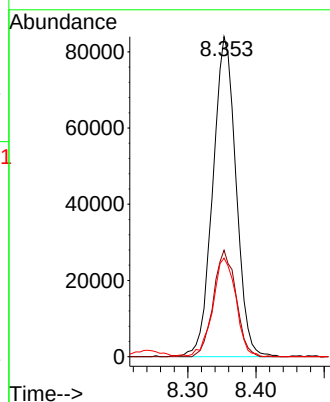
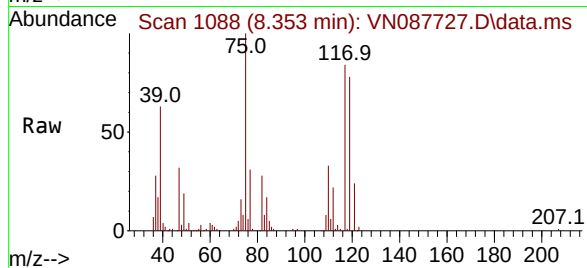
ClientSampleId :

VSTDICC050

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 19900 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 32.3    | 0.0 64.4    |
| 77 30.7     | 0.0 62.2    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 243.287 ug/l

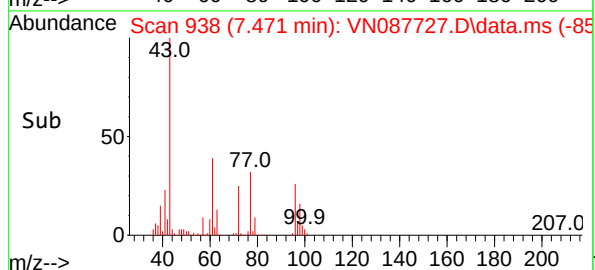
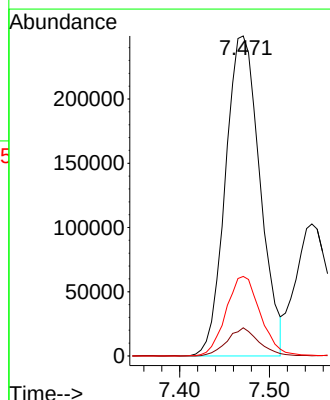
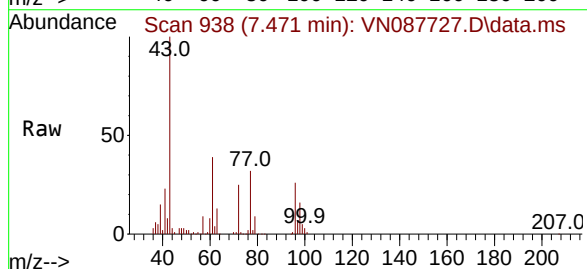
RT: 7.471 min Scan# 938

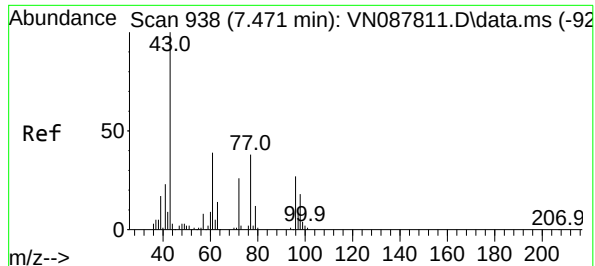
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 666350 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.0      | 6.3 9.5      |
| 72 24.9     | 21.4 32.2    |





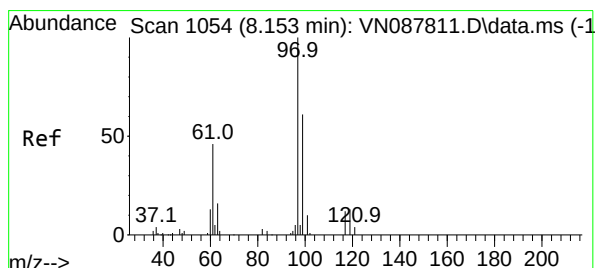
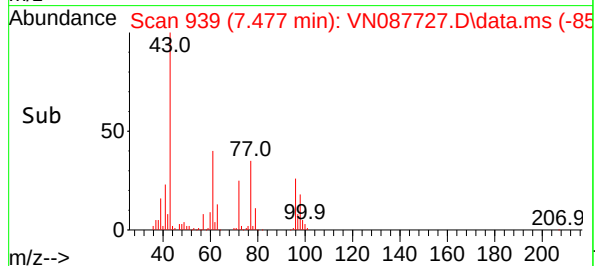
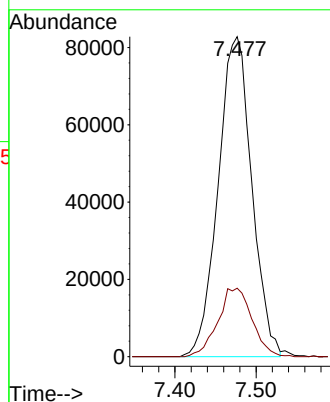
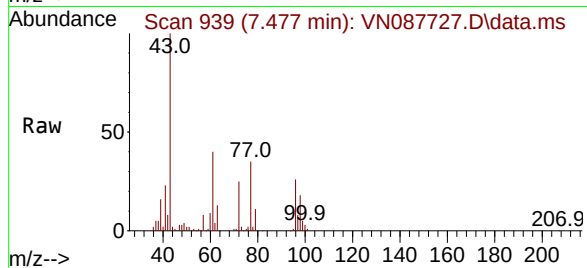
#31  
2,2-Dichloropropane  
Concen: 50.297 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 77 Resp: 238304  
Ion Ratio Lower Upper  
77 100  
97 21.8 17.1 25.7

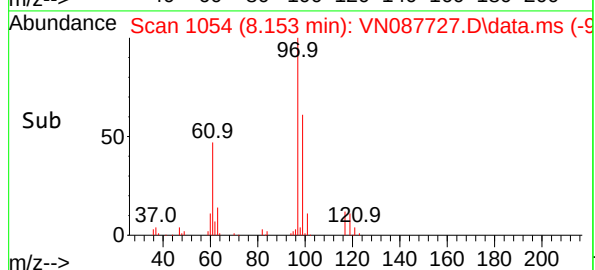
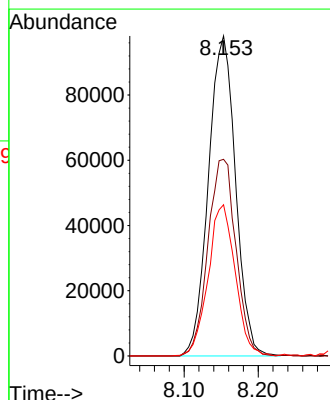
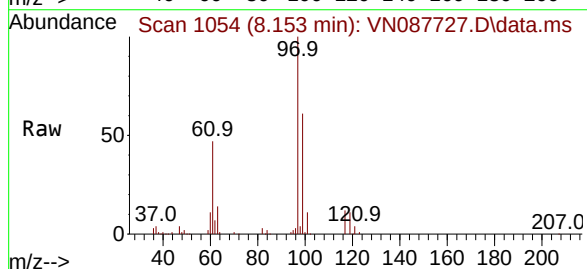
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

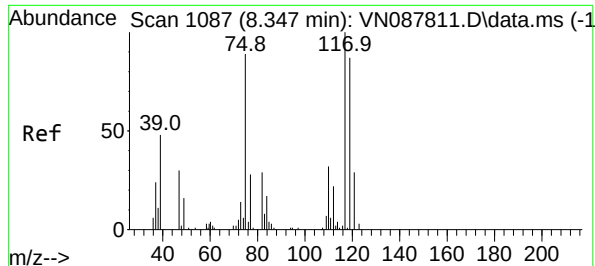


#32  
1,1,1-Trichloroethane  
Concen: 51.457 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 97 Resp: 249576  
Ion Ratio Lower Upper  
97 100  
99 63.4 52.2 78.4  
61 47.2 37.9 56.9

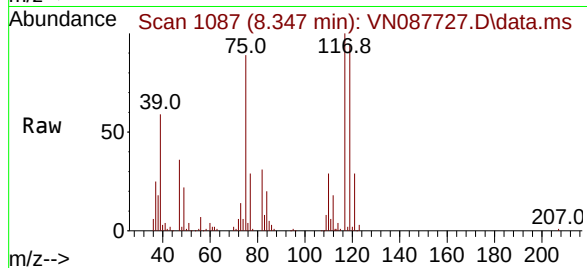






#33  
Carbon Tetrachloride  
Concen: 52.233 ug/l  
RT: 8.347 min Scan# 1087  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

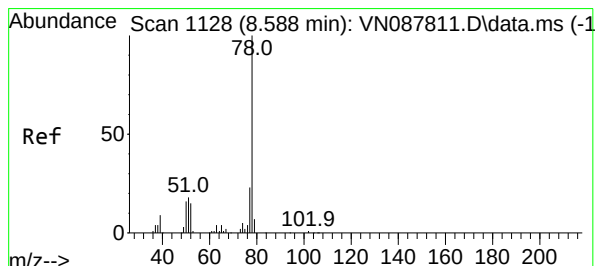
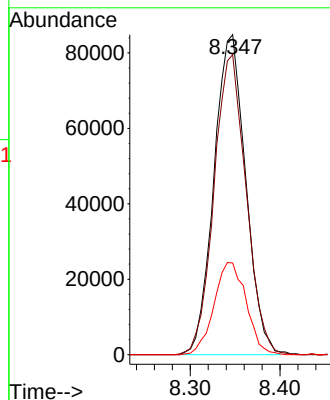
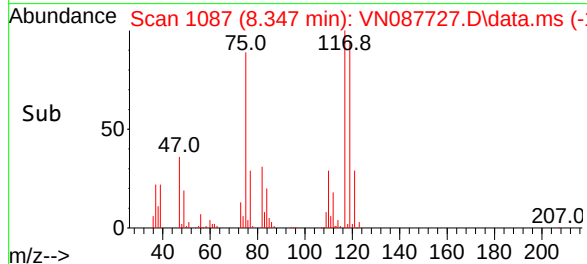
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 117 Resp: 208479  
Ion Ratio Lower Upper  
117 100  
119 93.5 77.3 115.9  
121 28.6 26.6 39.8

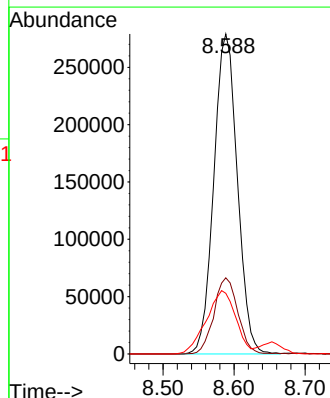
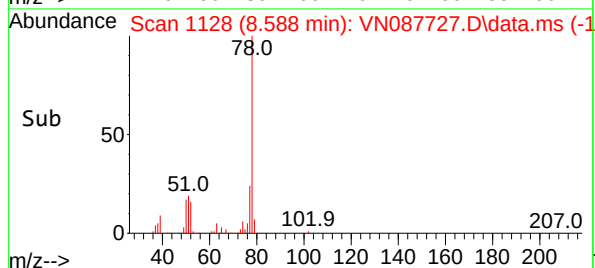
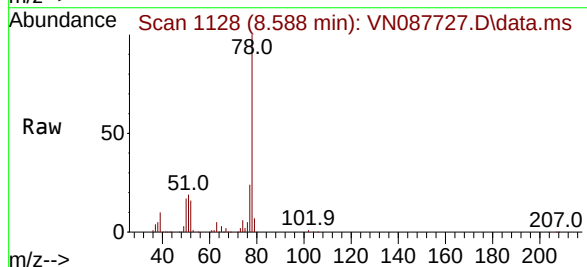
Manual Integrations  
APPROVED

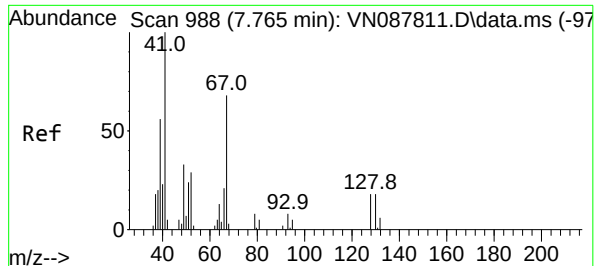
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 53.450 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 78 Resp: 640994  
Ion Ratio Lower Upper  
78 100  
77 23.8 20.3 30.5  
51 18.7 18.0 27.0





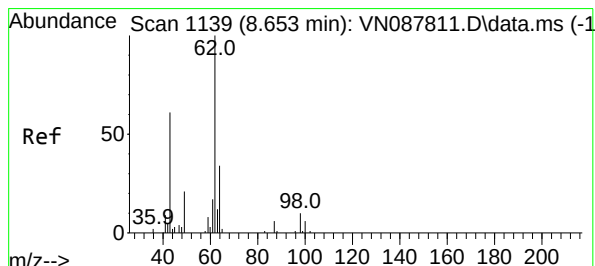
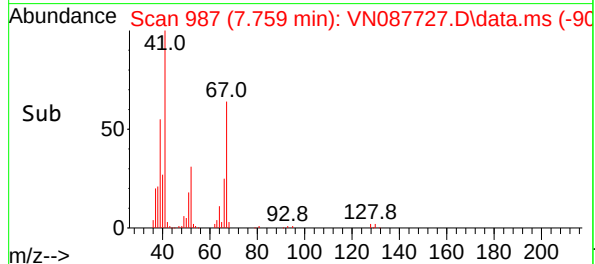
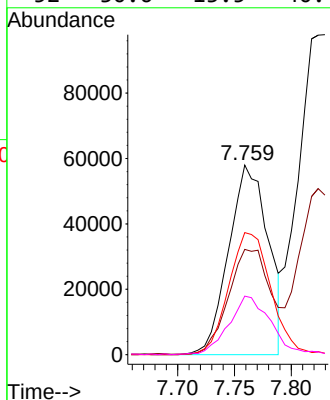
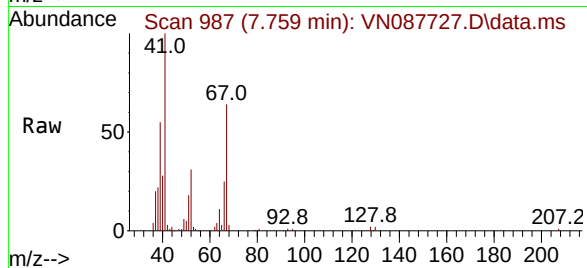
#35  
Methacrylonitrile  
Concen: 47.182 ug/l  
RT: 7.759 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 41 Resp: 14038  
Ion Ratio Lower Upper  
41 100  
39 55.1 27.1 81.2  
67 64.4 32.1 96.5  
52 30.6 13.5 40.4

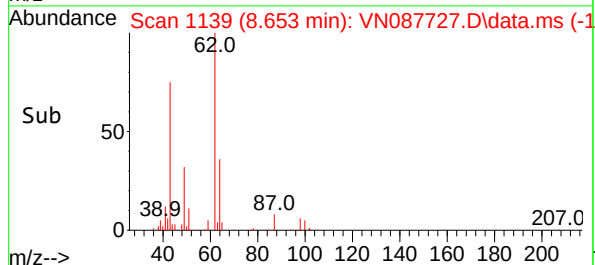
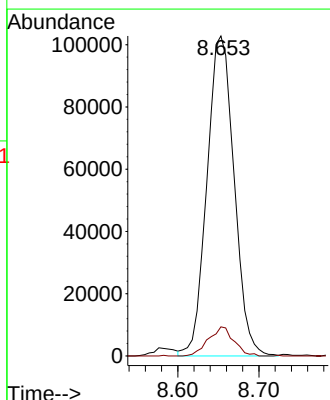
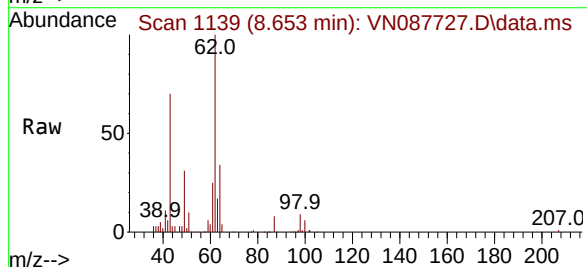
Manual Integrations  
APPROVED

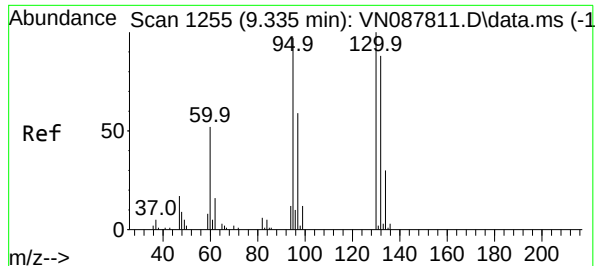
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#36  
1,2-Dichloroethane  
Concen: 50.083 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 62 Resp: 239430  
Ion Ratio Lower Upper  
62 100  
98 8.3 7.2 10.8





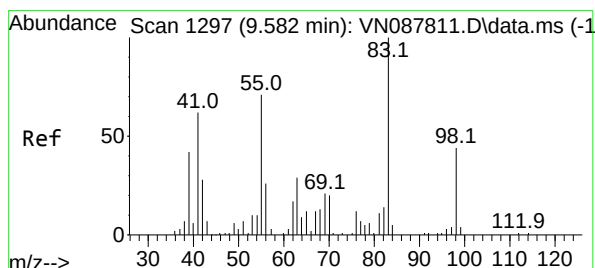
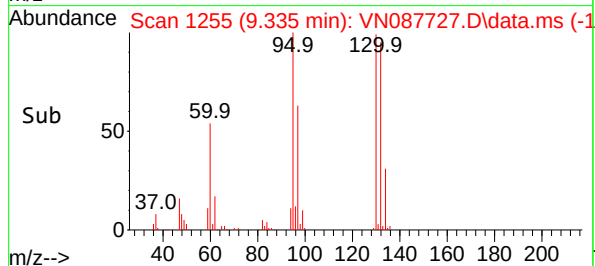
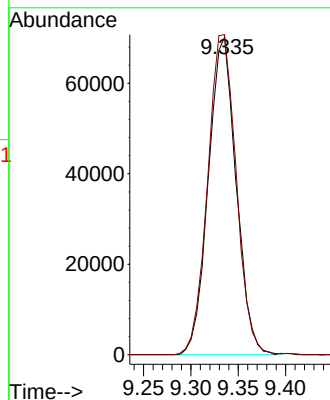
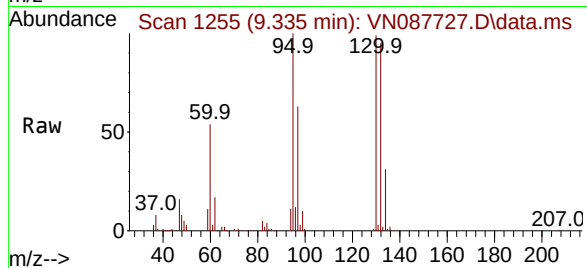
#37  
Trichloroethene  
Concen: 54.130 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion:130 Resp: 14295  
Ion Ratio Lower Upper  
130 100  
95 100.4 82.7 124.1

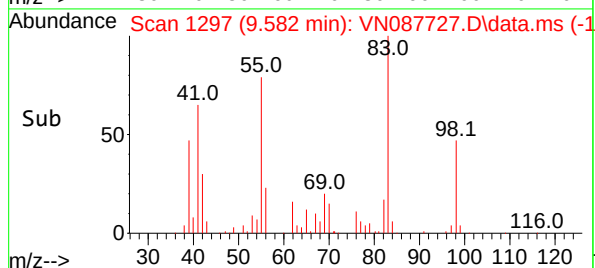
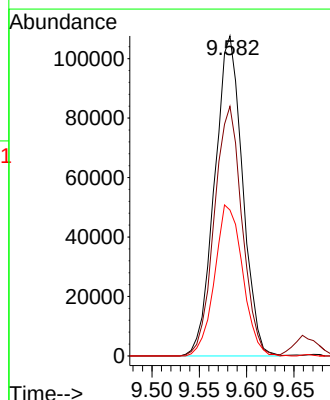
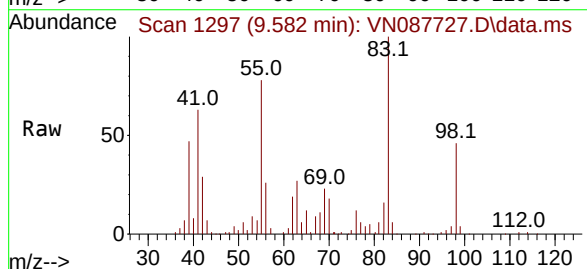
Manual Integrations  
APPROVED

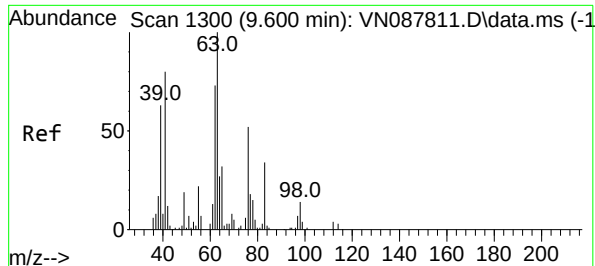
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#38  
Methylcyclohexane  
Concen: 51.099 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 83 Resp: 220447  
Ion Ratio Lower Upper  
83 100  
55 77.7 40.4 121.1  
98 47.4 24.0 72.0





#39

1,2-Dichloropropane

Concen: 52.056 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 15998

Ion Ratio Lower Upper

63 100

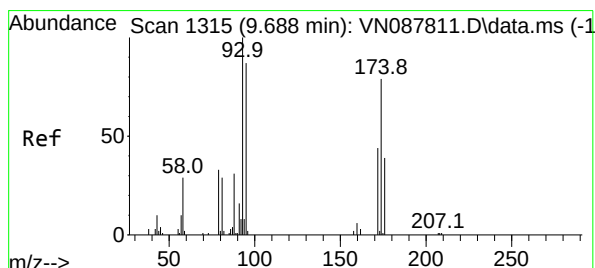
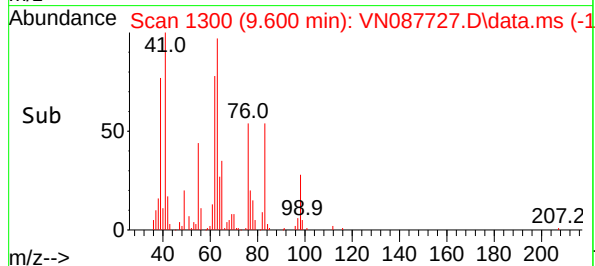
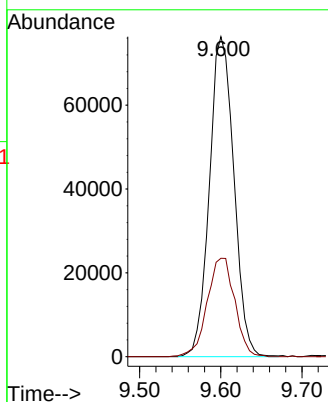
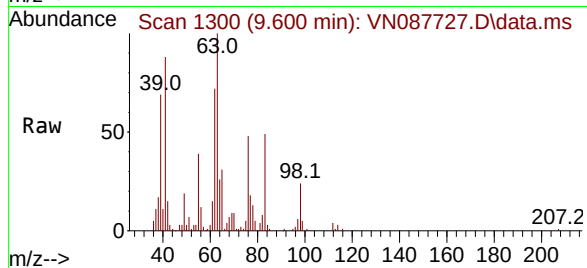
65 30.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 52.549 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

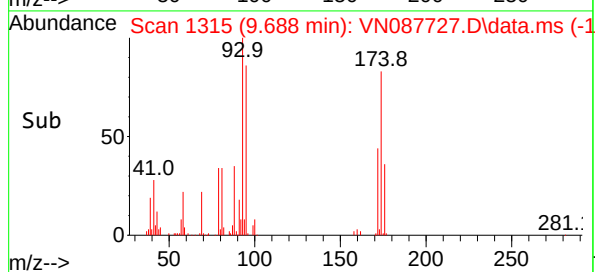
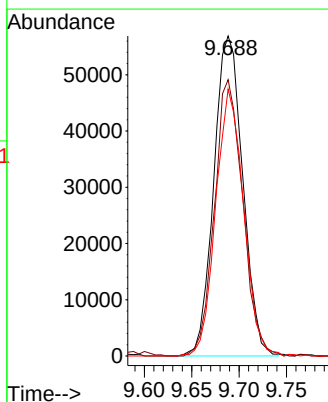
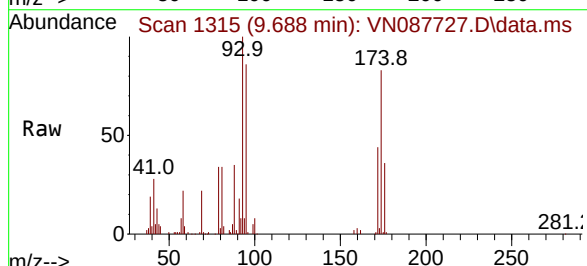
Tgt Ion: 93 Resp: 120754

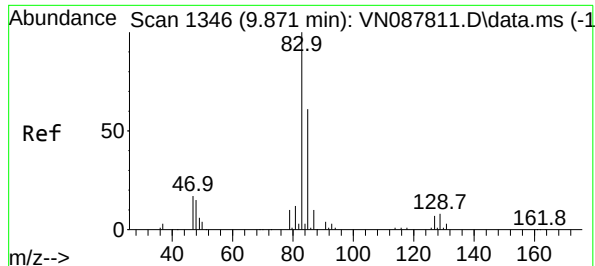
Ion Ratio Lower Upper

93 100

95 84.5 0.0 168.4

174 80.2 0.0 162.8





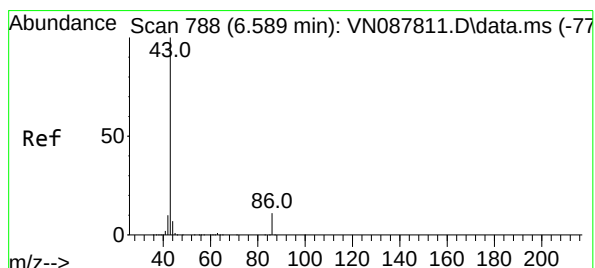
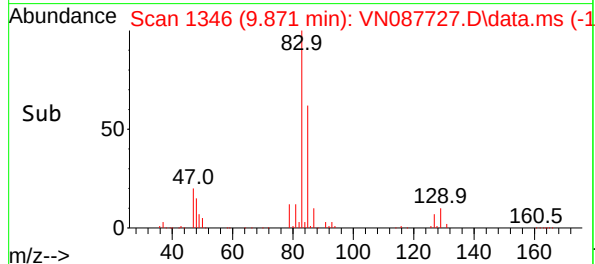
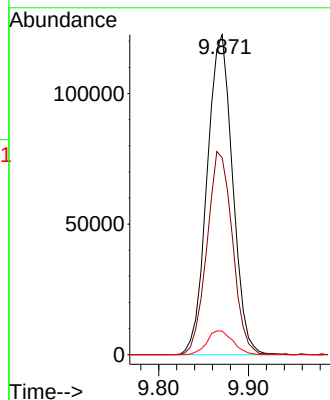
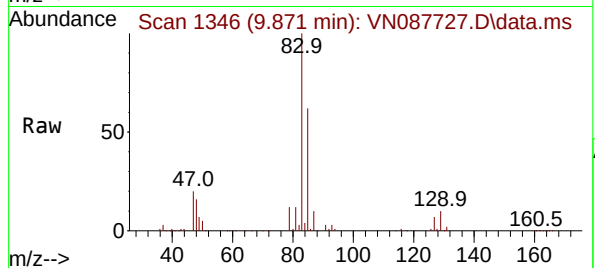
#41  
Bromodichloromethane  
Concen: 50.456 ug/l  
RT: 9.871 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 83 Resp: 242124  
Ion Ratio Lower Upper  
83 100  
85 61.4 47.3 70.9  
127 7.4 5.2 7.8

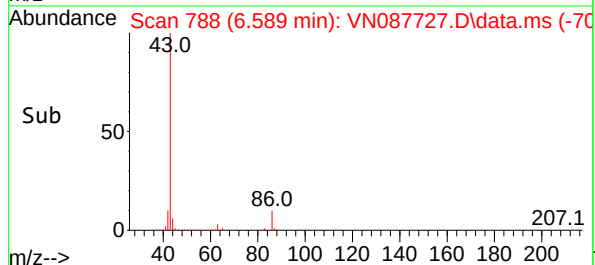
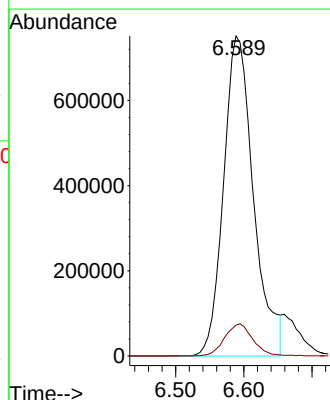
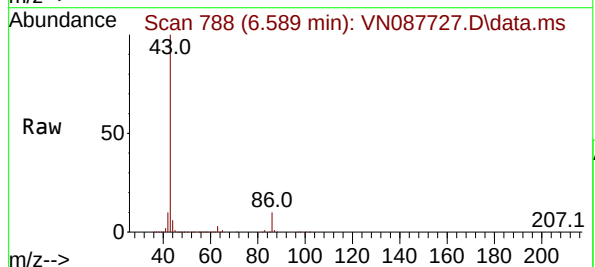
Manual Integrations  
APPROVED

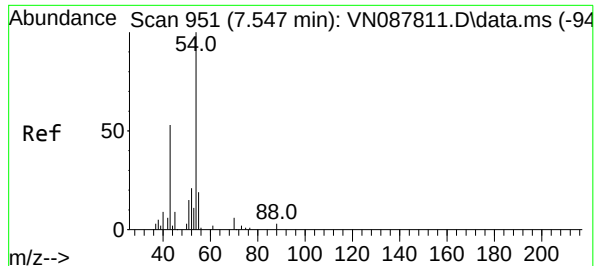
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 254.840 ug/l  
RT: 6.589 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion: 43 Resp: 2296328  
Ion Ratio Lower Upper  
43 100  
86 9.4 7.7 11.5





#43

Ethyl Acetate

Concen: 51.296 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 27688

Ion Ratio Lower Upper

43 100

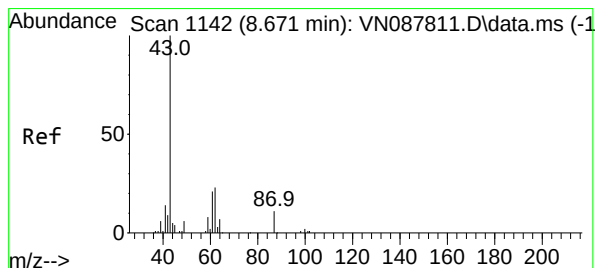
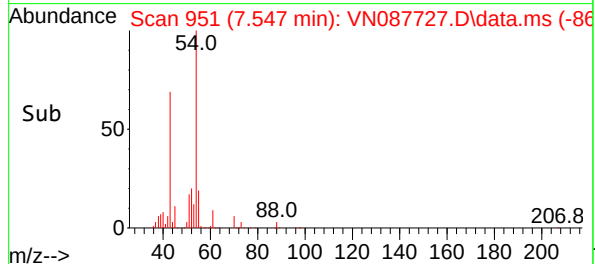
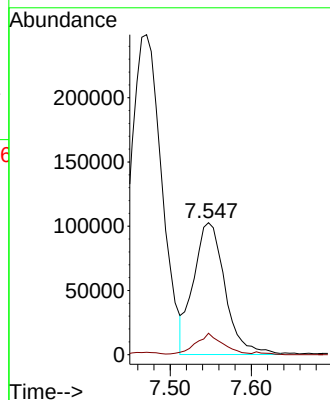
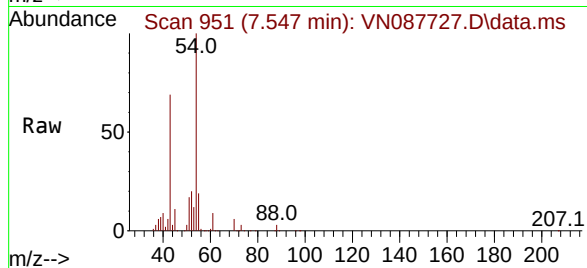
45 14.0 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 48.838 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087727.D

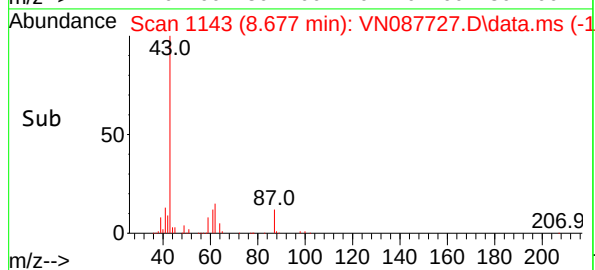
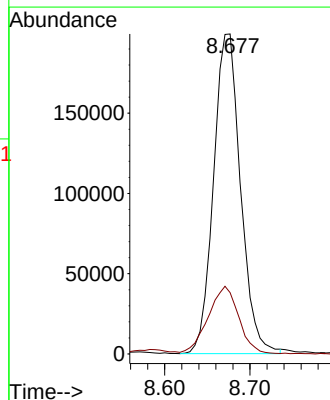
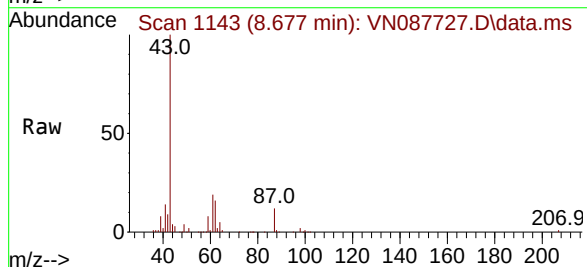
Acq: 04 Sep 2025 17:05

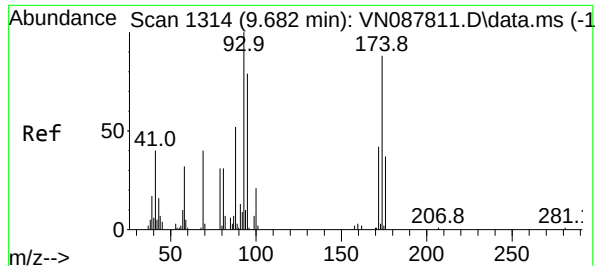
Tgt Ion: 43 Resp: 438553

Ion Ratio Lower Upper

43 100

61 24.0 19.5 29.3





#45

1,4-Dioxane

Concen: 926.233 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 88 Resp: 5324

Ion Ratio Lower Upper

88 100

43 29.9 23.6 35.4

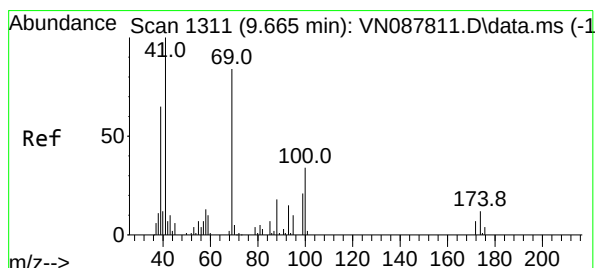
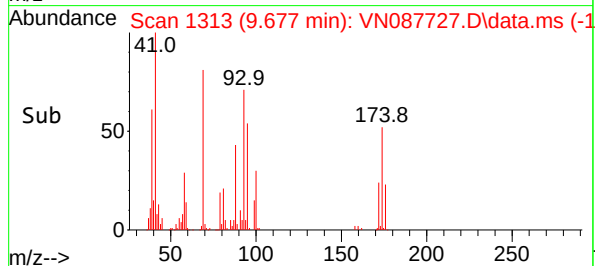
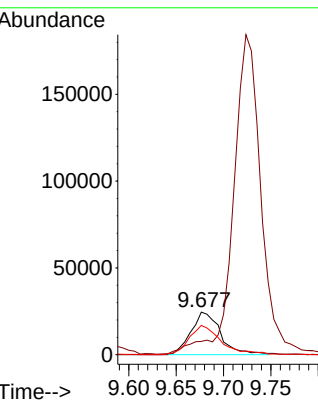
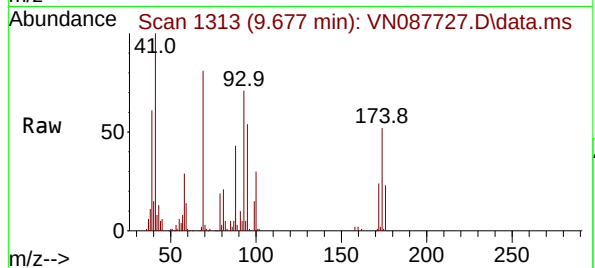
58 69.3 60.5 90.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 48.120 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

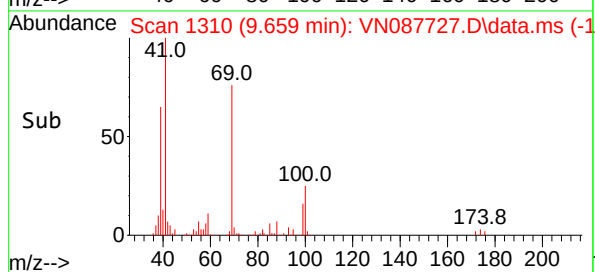
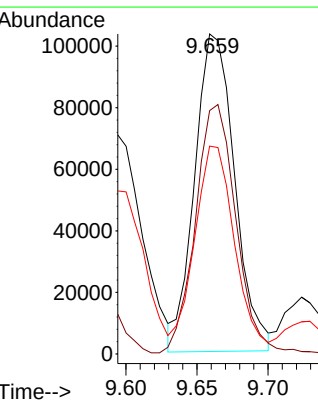
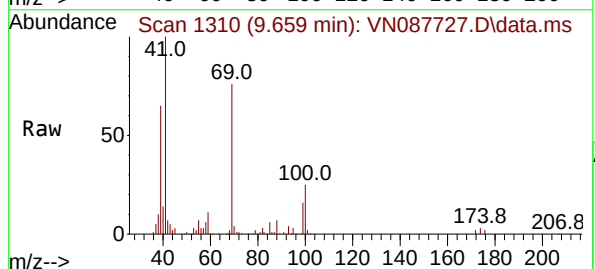
Tgt Ion: 41 Resp: 202256

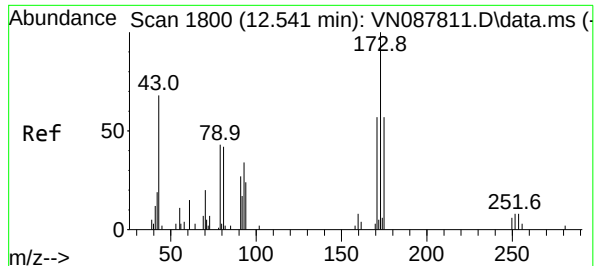
Ion Ratio Lower Upper

41 100

69 79.1 40.3 120.9

39 65.7 31.9 95.9





#47

n-amy1 Acetate

Concen: 57.443 ug/l m

RT: 12.500 min Scan# 1

Delta R.T. -0.171 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 299910

Ion Ratio Lower Upper

43 100

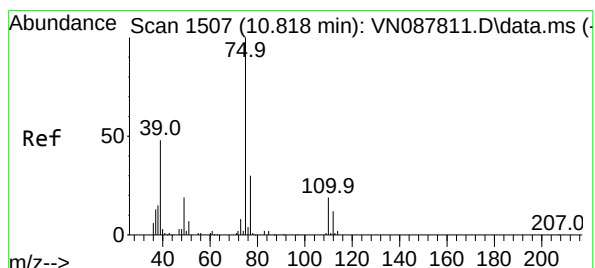
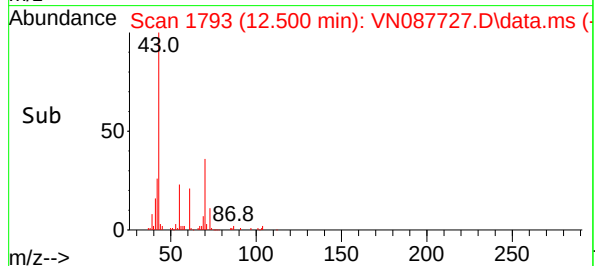
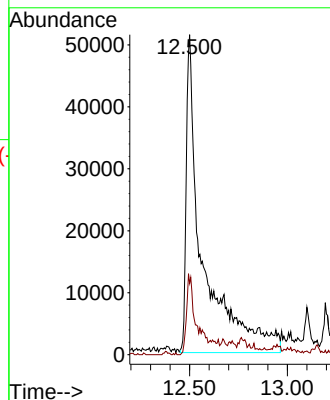
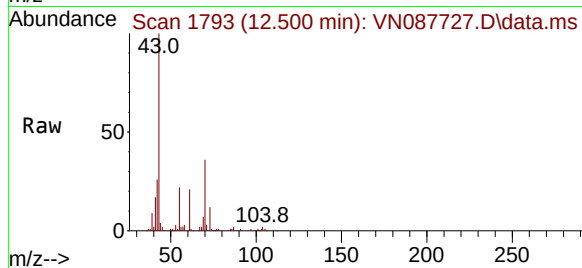
55 0.4 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 50.194 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087727.D

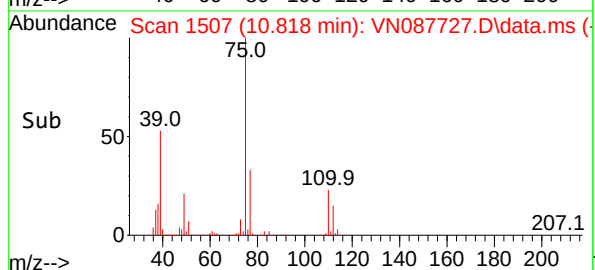
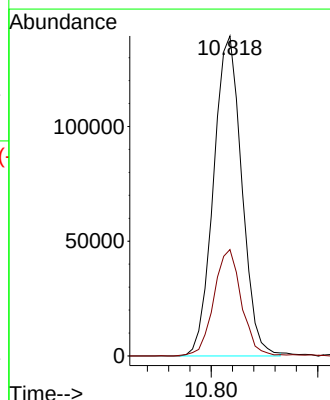
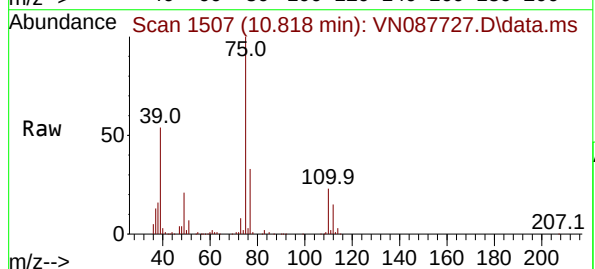
Acq: 04 Sep 2025 17:05

Tgt Ion: 75 Resp: 256762

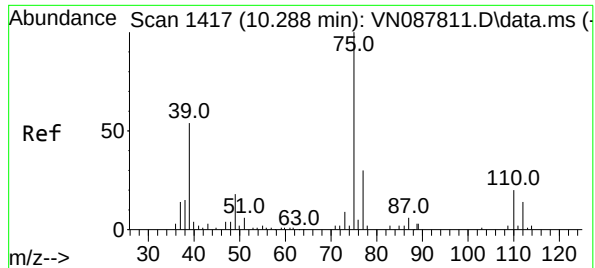
Ion Ratio Lower Upper

75 100

77 33.1 24.7 37.1







#49

cis-1,3-Dichloropropene

Concen: 51.643 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 26662

Ion Ratio Lower Upper

75 100

77 31.1 27.8 41.6

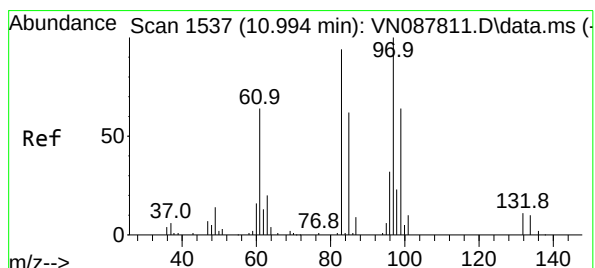
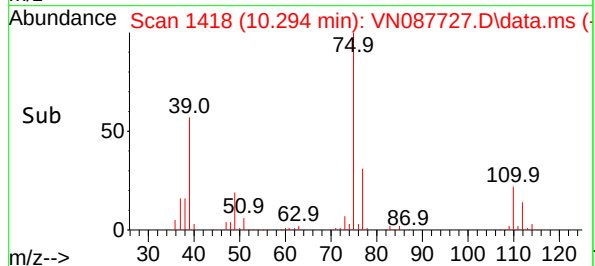
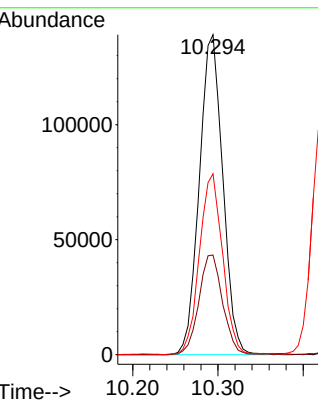
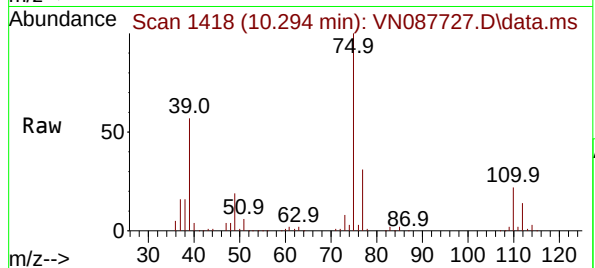
39 56.4 47.6 71.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 53.732 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Tgt Ion: 97 Resp: 156835

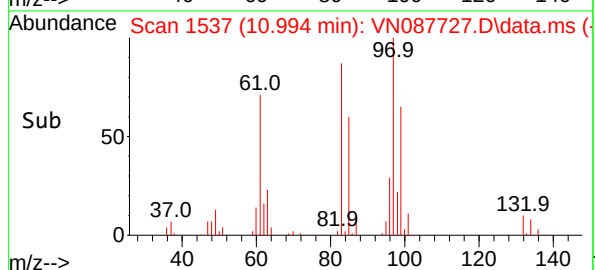
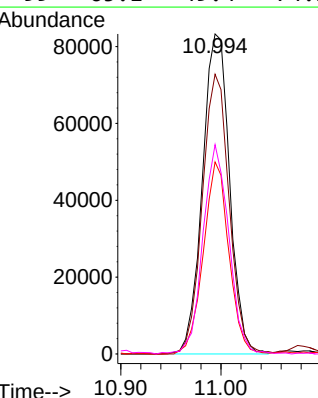
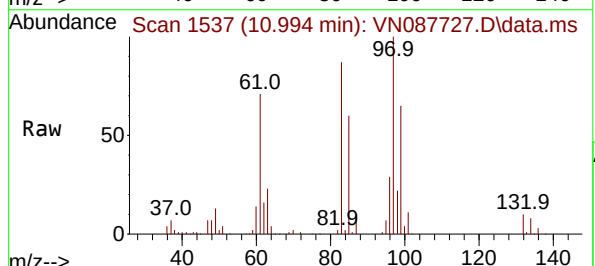
Ion Ratio Lower Upper

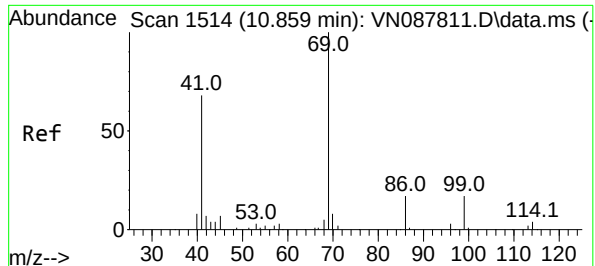
97 100

83 87.2 70.5 105.7

85 60.0 46.3 69.5

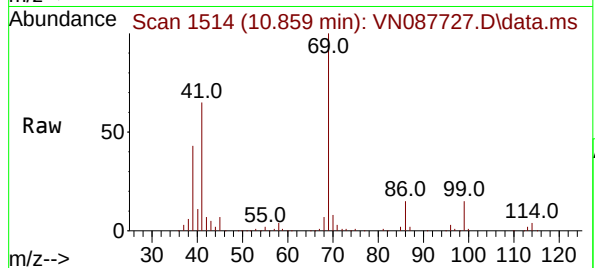
99 65.1 49.4 74.2





#51  
Ethyl methacrylate  
Concen: 52.305 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

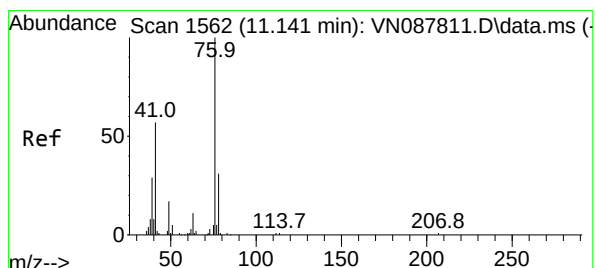
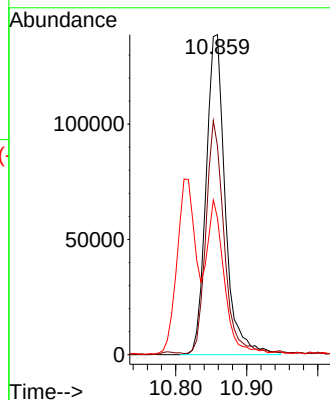
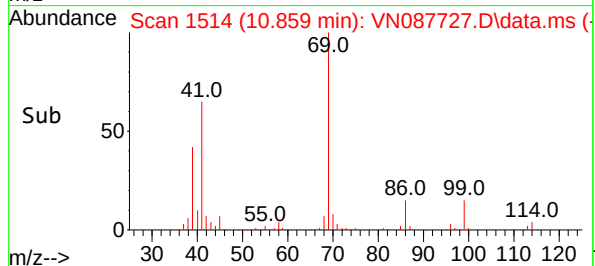
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 69 Resp: 260502  
Ion Ratio Lower Upper  
69 100  
41 64.5 33.7 101.0  
39 41.9 20.3 60.9

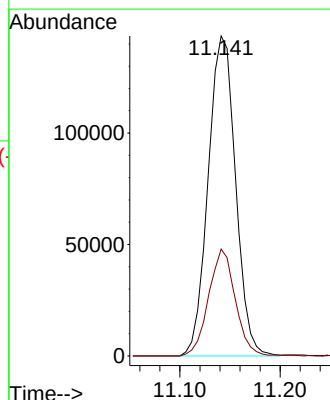
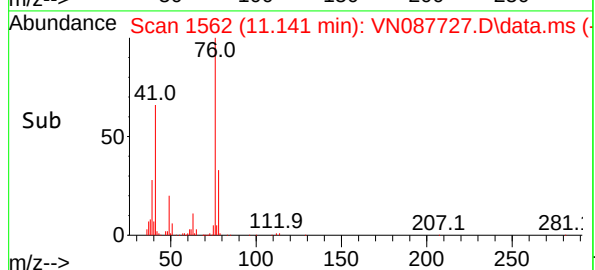
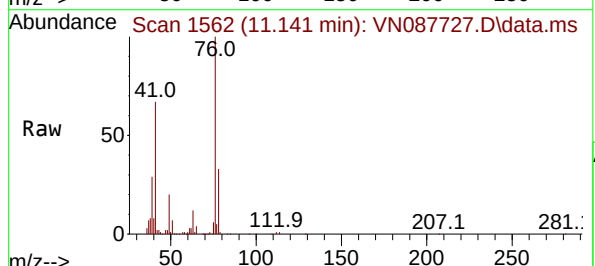
Manual Integrations  
APPROVED

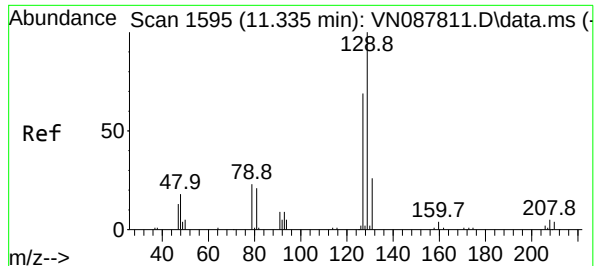
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 52.180 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

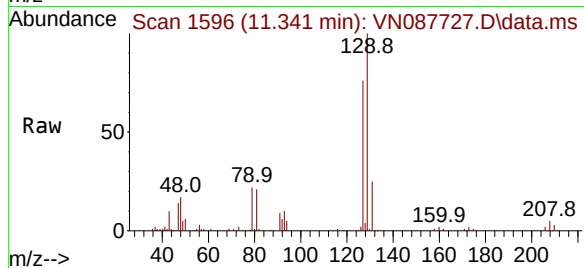
Tgt Ion: 76 Resp: 273053  
Ion Ratio Lower Upper  
76 100  
78 32.3 0.0 65.2





#53  
Dibromochloromethane  
Concen: 53.720 ug/l  
RT: 11.341 min Scan# 11341  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

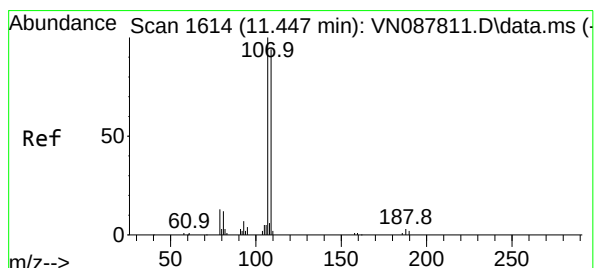
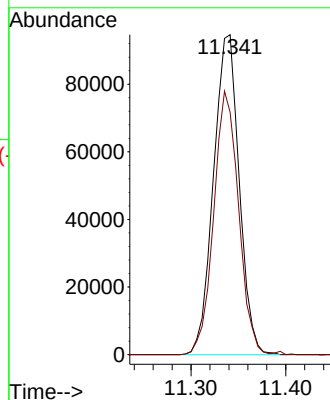
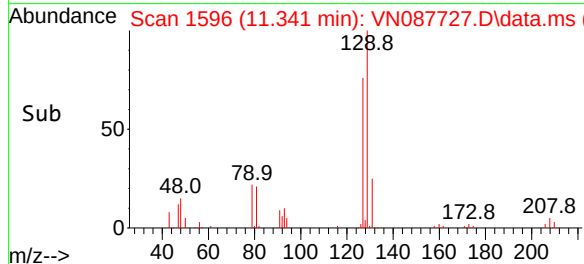
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



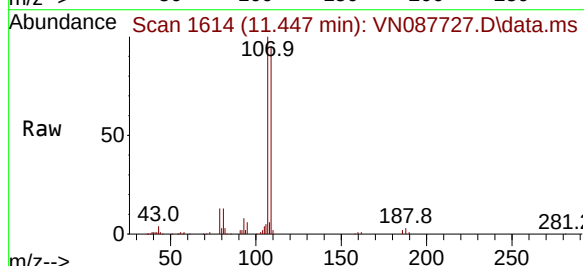
Tgt Ion:129 Resp: 178488  
Ion Ratio Lower Upper  
129 100  
127 79.6 42.6 128.0

Manual Integrations  
APPROVED

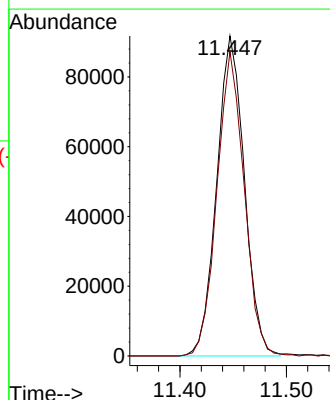
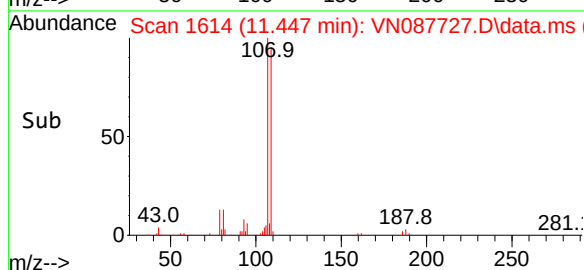
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

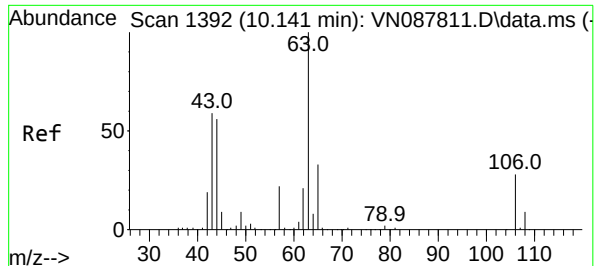


#54  
1,2-Dibromoethane  
Concen: 53.777 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



Tgt Ion:107 Resp: 165403  
Ion Ratio Lower Upper  
107 100  
109 93.5 74.6 112.0





#55

2-Chloroethyl vinyl ether

Concen: 247.892 ug/l

RT: 10.141 min Scan# 1392

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

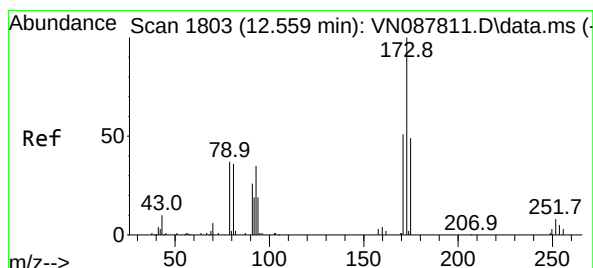
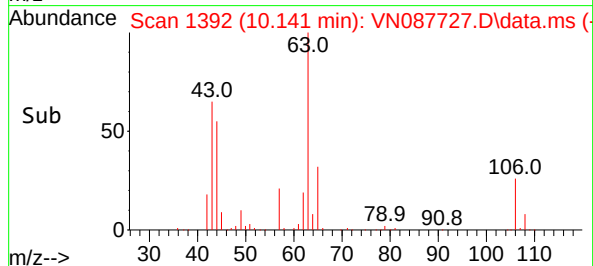
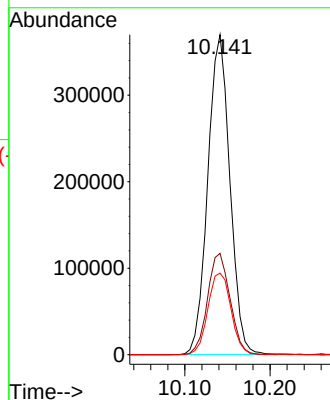
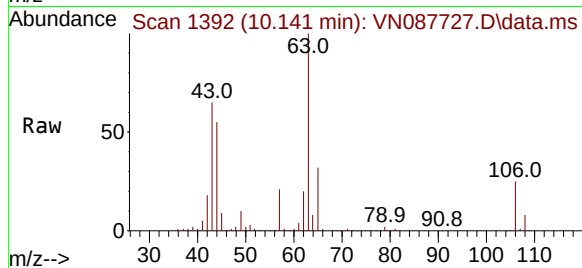
ClientSampleId :

VSTDICC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 66705 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 32.3  | 26.6  | 40.0  |
| 106      | 26.7  | 21.1  | 31.7  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56

Bromoform

Concen: 51.614 ug/l

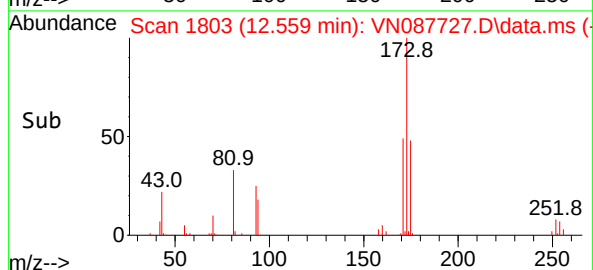
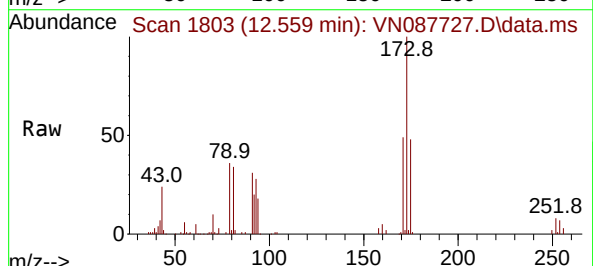
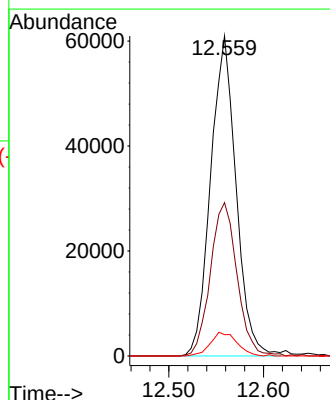
RT: 12.559 min Scan# 1803

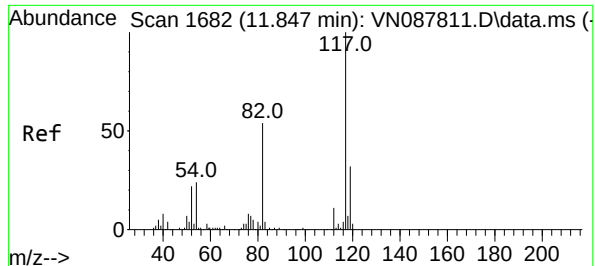
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

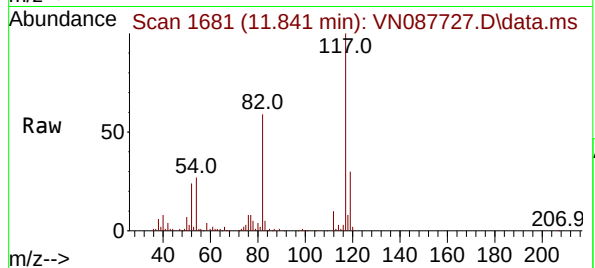
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 173   | Resp: | 113619 |
| Ion      | Ratio | Lower | Upper  |
| 173      | 100   |       |        |
| 175      | 50.0  | 39.8  | 59.6   |
| 254      | 7.7   | 6.2   | 9.4    |





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

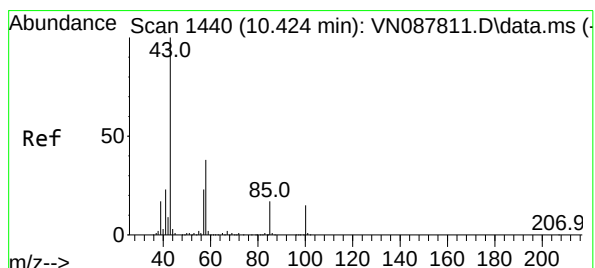
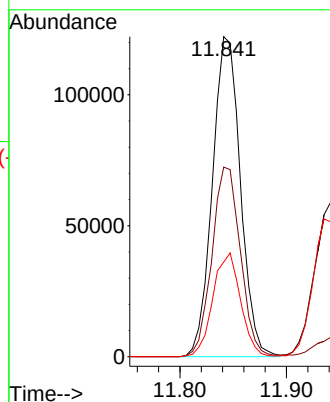
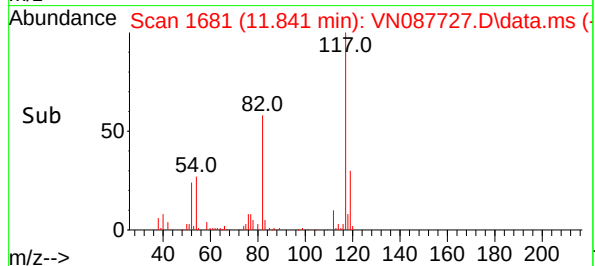
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



Tgt Ion: 117 Resp: 223338  
Ion Ratio Lower Upper  
117 100  
82 60.1 45.9 68.9  
119 32.1 25.3 37.9

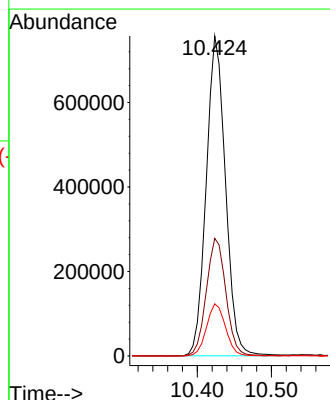
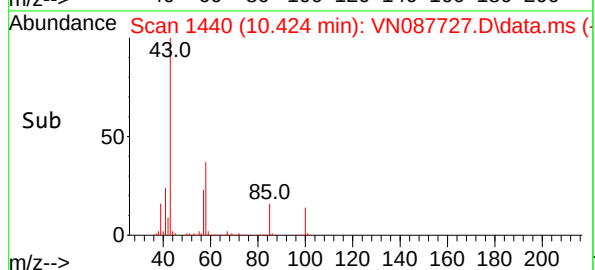
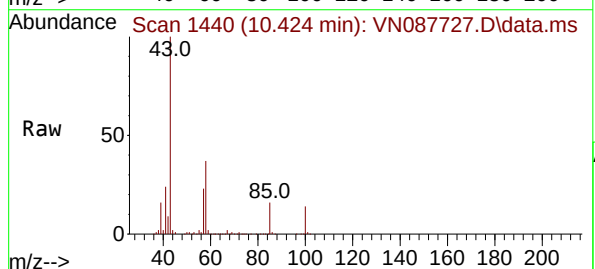
Manual Integrations  
APPROVED

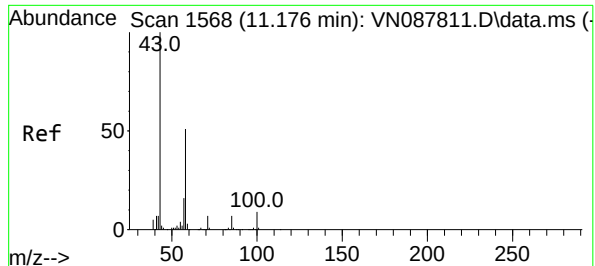
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 247.352 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

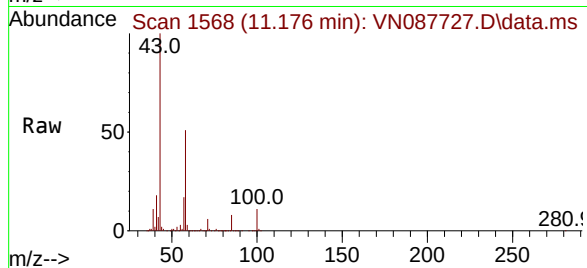
Tgt Ion: 43 Resp: 1366907  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.6 44.4  
85 16.2 13.0 19.4





#59  
2-Hexanone  
Concen: 252.664 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

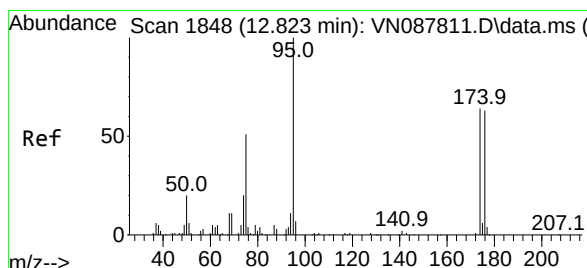
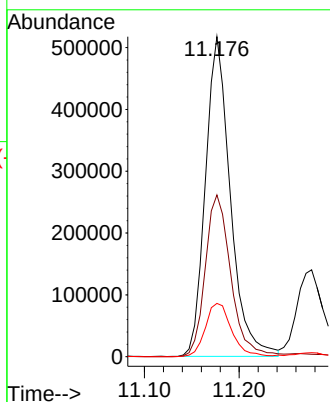
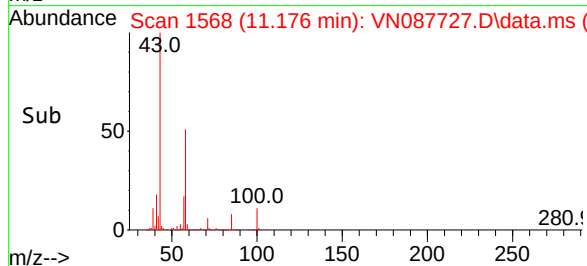
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



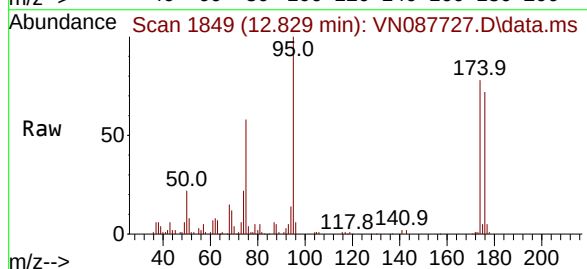
Tgt Ion: 43 Resp: 94558  
Ion Ratio Lower Upper  
43 100  
58 52.0 40.2 60.4  
57 17.6 13.7 20.5

Manual Integrations  
APPROVED

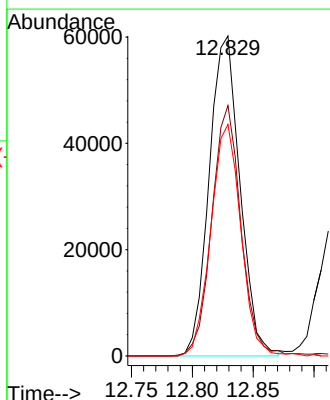
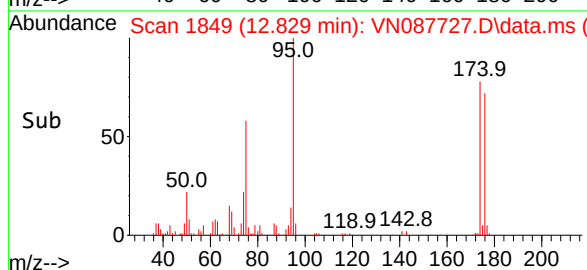
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

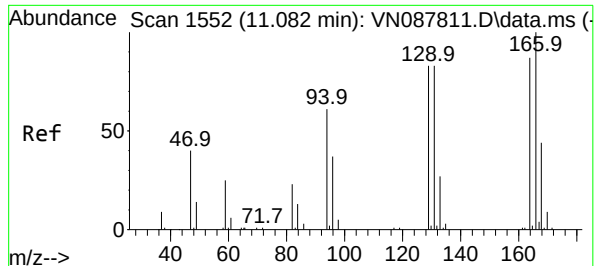


#60  
4-Bromofluorobenzene  
Concen: 27.928 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



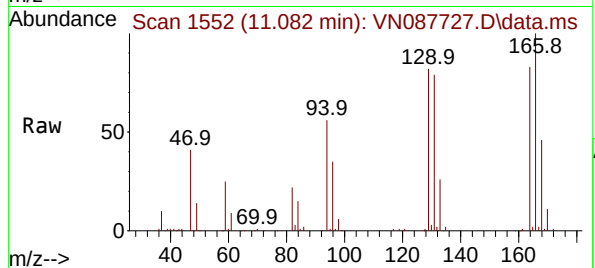
Tgt Ion: 95 Resp: 106071  
Ion Ratio Lower Upper  
95 100  
174 73.8 55.4 83.0  
176 70.2 51.5 77.3





#61  
Tetrachloroethene  
Concen: 51.225 ug/l  
RT: 11.082 min Scan# 110439  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

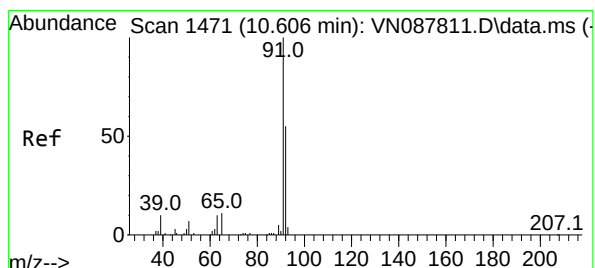
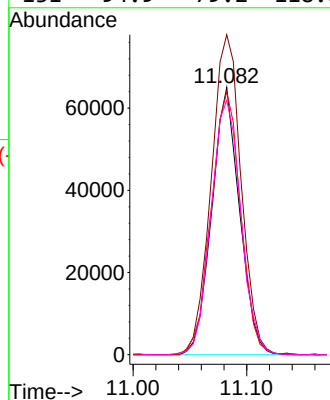
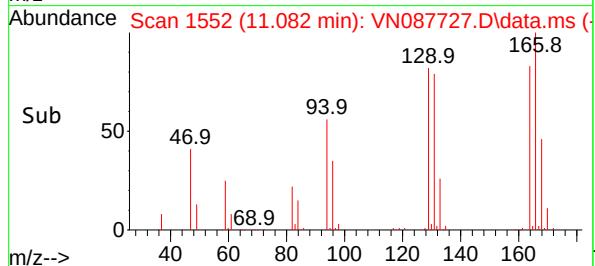
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



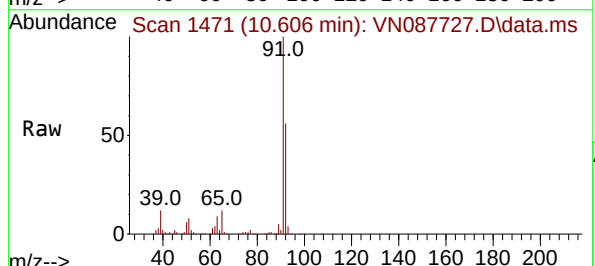
Tgt Ion:164 Resp: 110439  
Ion Ratio Lower Upper  
164 100  
166 119.5 97.3 145.9  
129 98.4 78.6 117.8  
131 94.9 79.2 118.8

Manual Integrations  
APPROVED

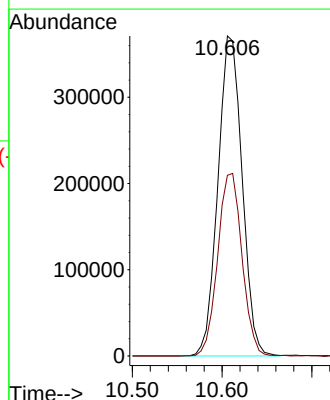
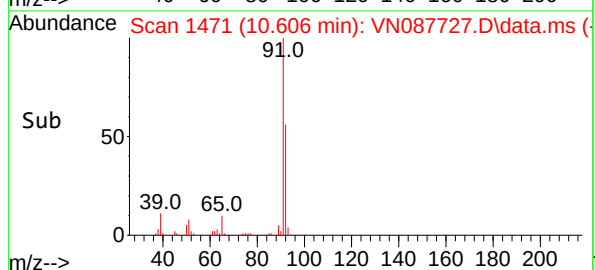
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

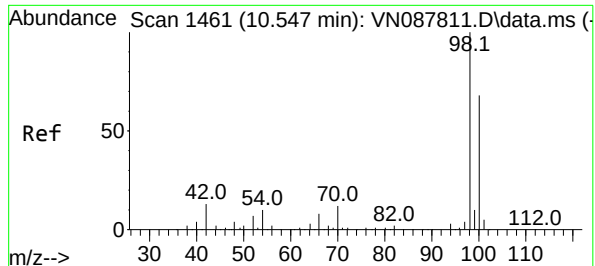


#62  
Toluene  
Concen: 51.744 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



Tgt Ion: 91 Resp: 695370  
Ion Ratio Lower Upper  
91 100  
92 57.2 45.4 68.0





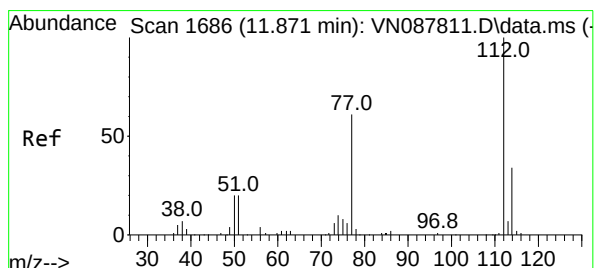
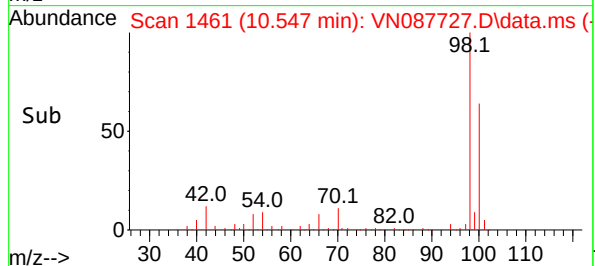
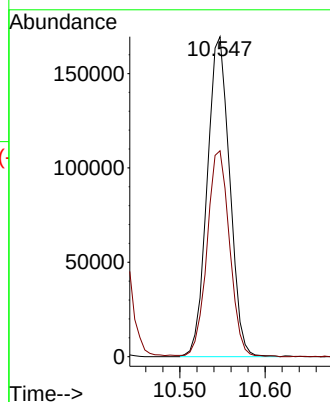
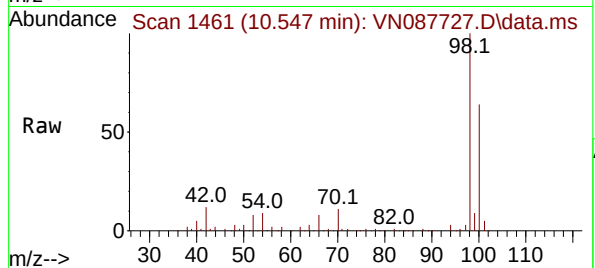
#63  
Toluene-d8  
Concen: 30.119 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 98 Resp: 310800  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.6 76.0

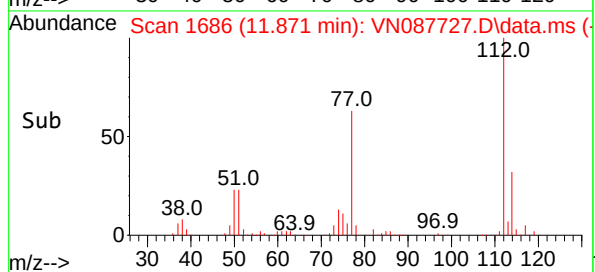
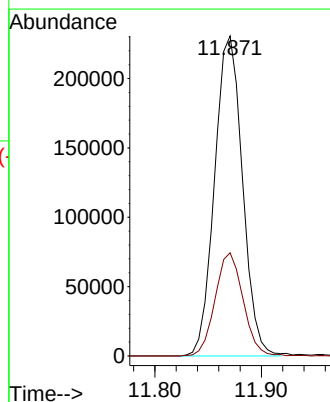
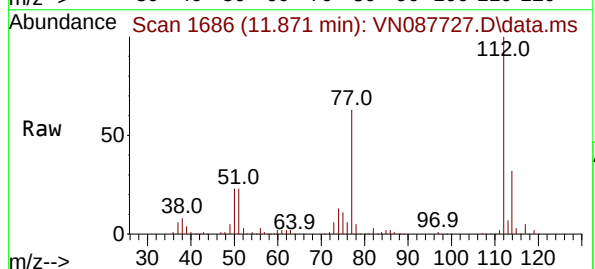
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

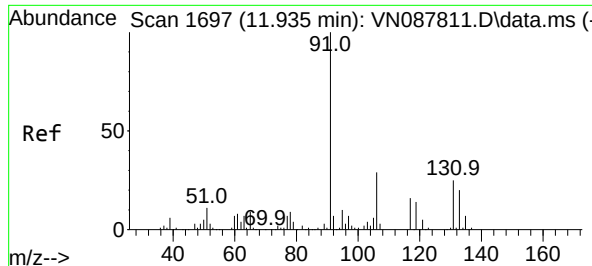


#64  
Chlorobenzene  
Concen: 50.870 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion:112 Resp: 419478  
Ion Ratio Lower Upper  
112 100  
114 32.2 23.5 35.3







#65

1,1,1,2-Tetrachloroethane

Concen: 51.179 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. 0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion:131 Resp: 14856

Ion Ratio Lower Upper

131 100

133 95.7 0.0 195.8

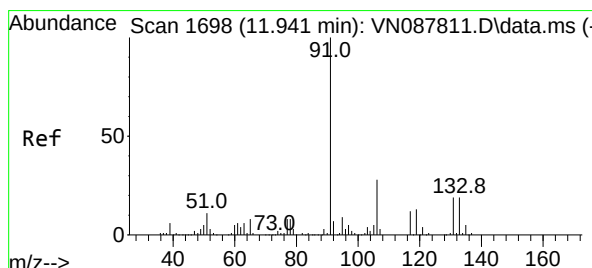
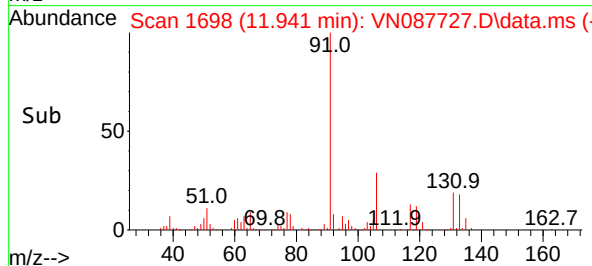
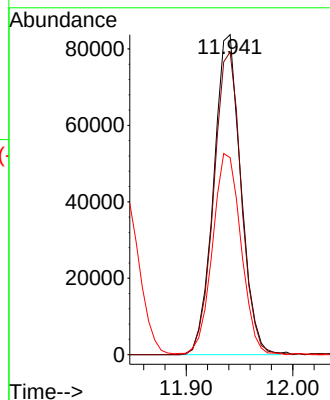
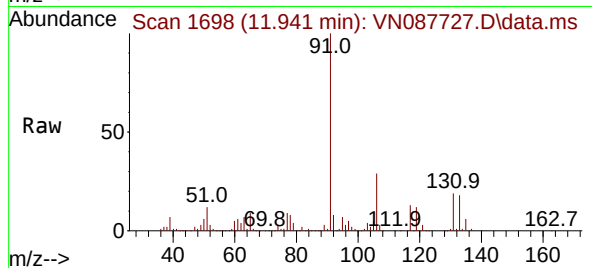
119 65.6 0.0 139.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#66

Ethyl Benzene

Concen: 51.315 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087727.D

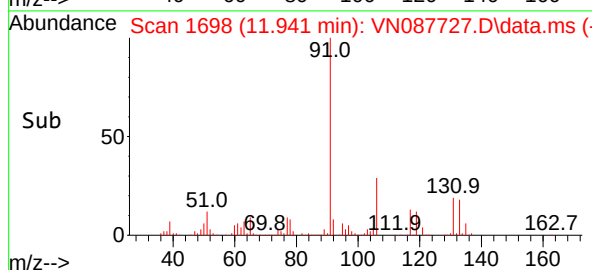
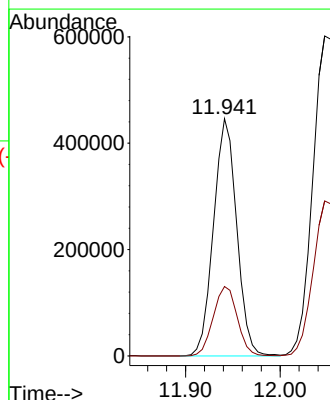
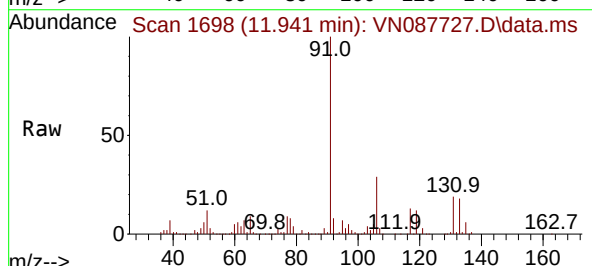
Acq: 04 Sep 2025 17:05

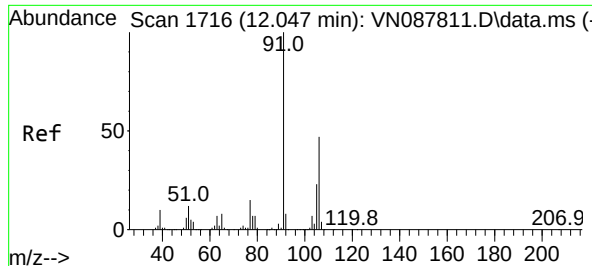
Tgt Ion: 91 Resp: 760061

Ion Ratio Lower Upper

91 100

106 29.3 21.3 31.9





#67

m/p-Xylenes

Concen: 106.025 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC050

Tgt Ion:106 Resp: 57802

Ion Ratio Lower Upper

106 100

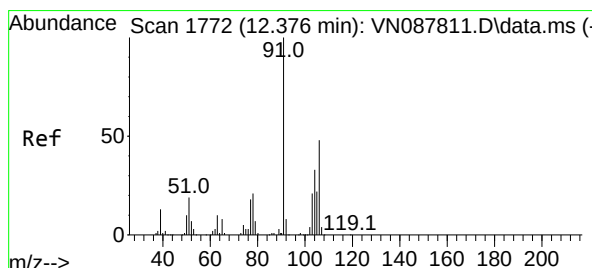
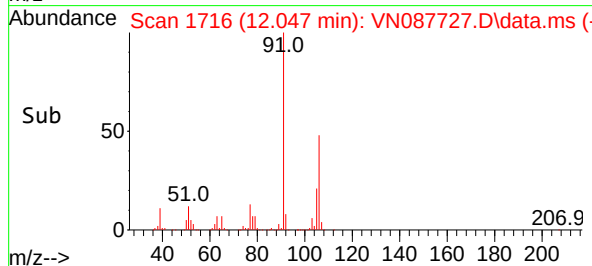
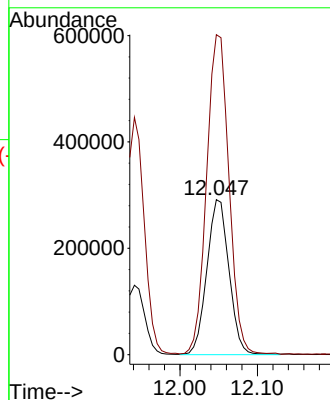
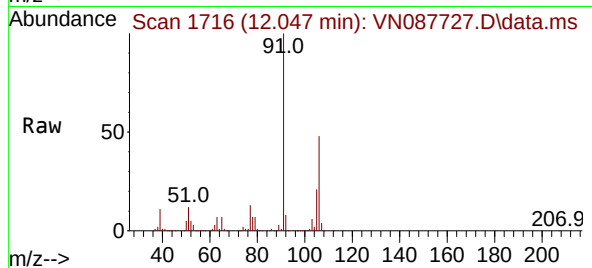
91 208.5 174.3 261.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#68

o-Xylene

Concen: 50.584 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VN087727.D

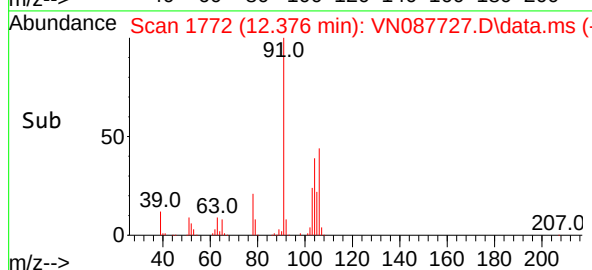
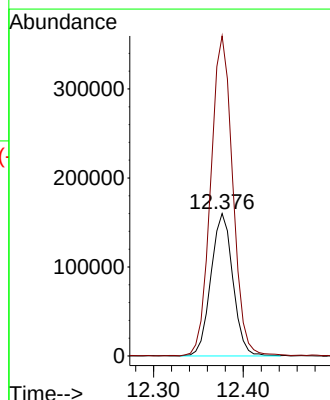
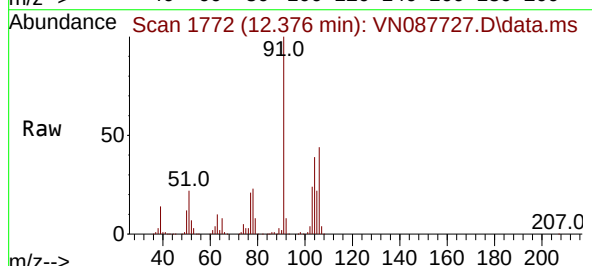
Acq: 04 Sep 2025 17:05

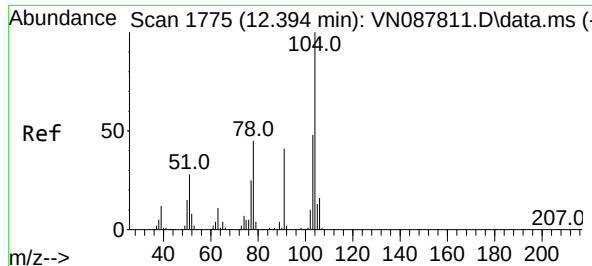
Tgt Ion:106 Resp: 272027

Ion Ratio Lower Upper

106 100

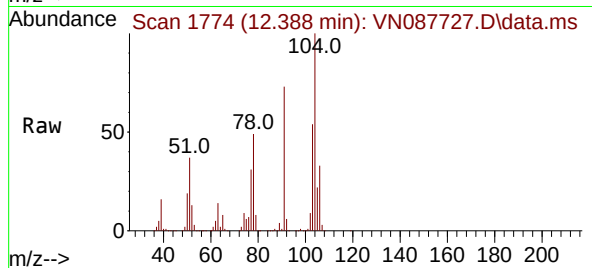
91 224.9 107.7 323.3





#69  
Styrene  
Concen: 53.357 ug/l  
RT: 12.388 min Scan# 1775  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

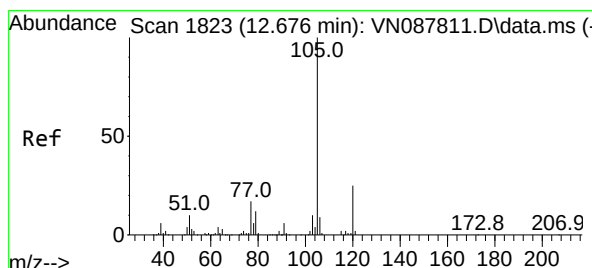
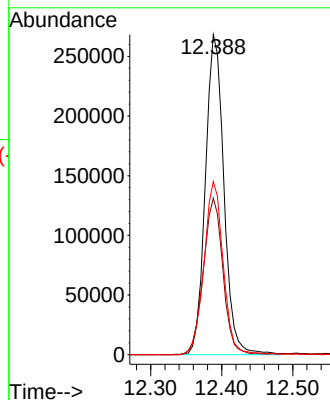
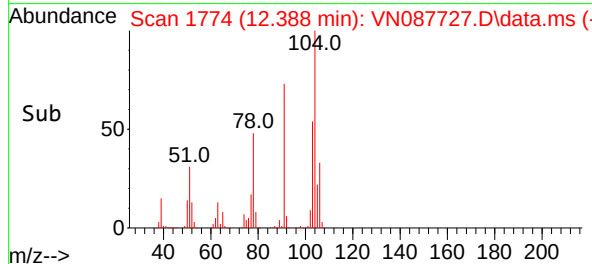
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



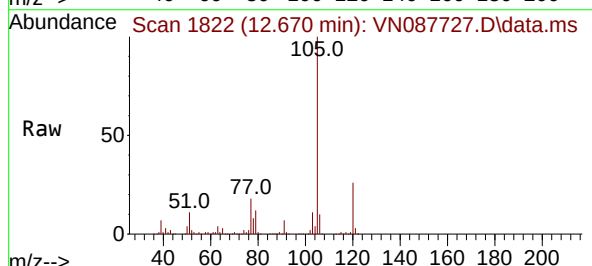
Tgt Ion:104 Resp: 48810  
Ion Ratio Lower Upper  
104 100  
78 51.5 41.0 61.6  
103 55.9 44.6 66.8

Manual Integrations  
APPROVED

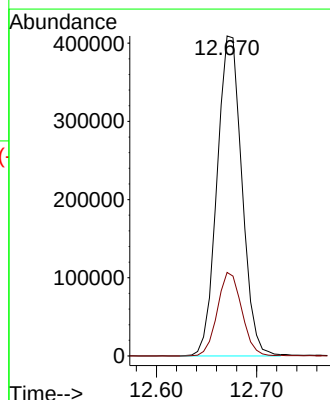
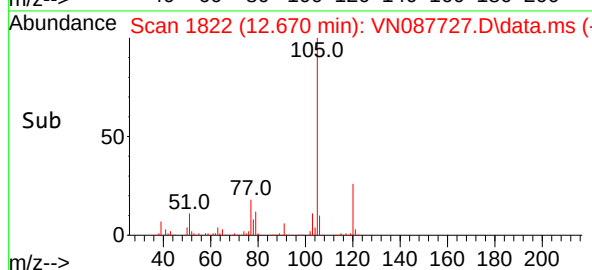
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

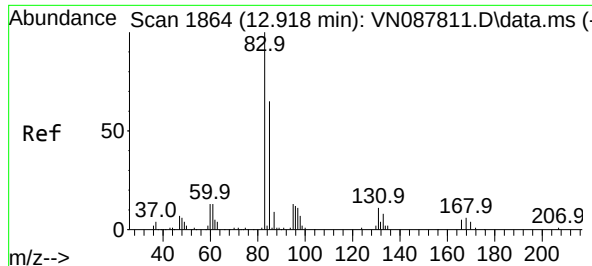


#70  
Isopropylbenzene  
Concen: 52.168 ug/l  
RT: 12.670 min Scan# 1822  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



Tgt Ion:105 Resp: 705735  
Ion Ratio Lower Upper  
105 100  
120 25.5 17.4 32.4





#71

1,1,2-Tetrachloroethane

Concen: 52.498 ug/l

RT: 12.918 min Scan# 1864

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

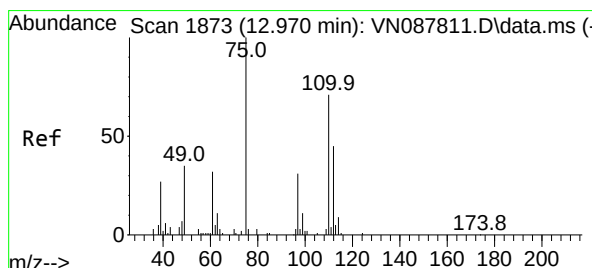
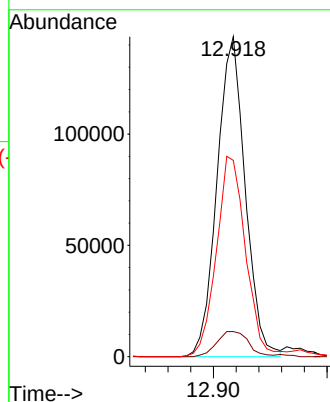
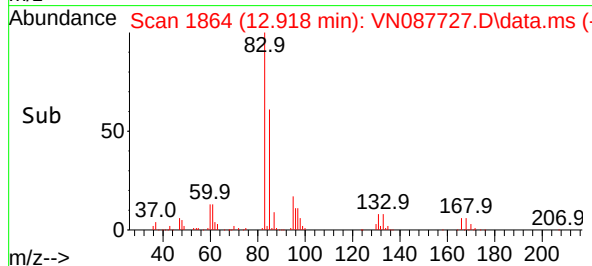
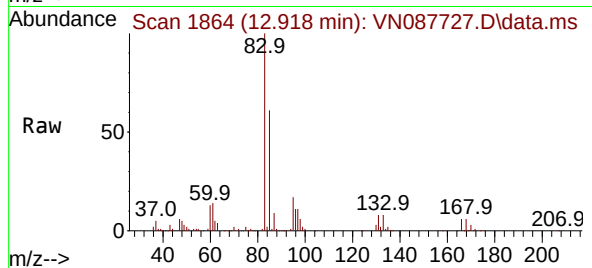
VSTDICC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 247798 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 131      | 8.8   | 4.8   | 14.3   |
| 85       | 64.9  | 31.9  | 95.7   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72

1,2,3-Trichloropropane

Concen: 51.707 ug/l m

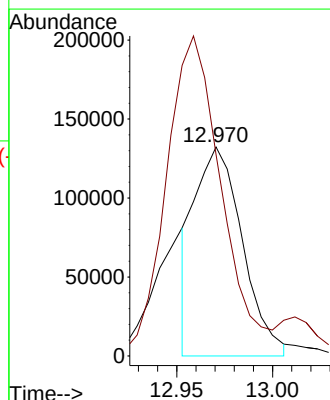
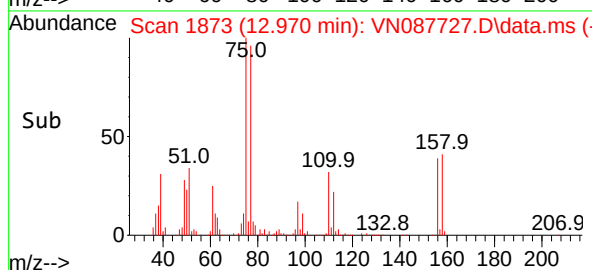
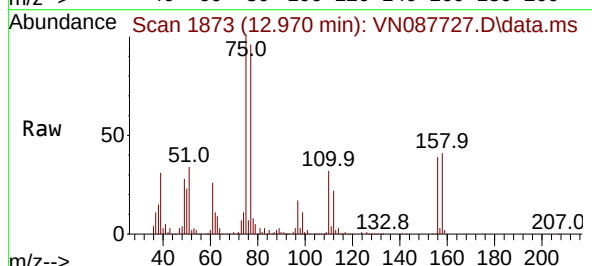
RT: 12.970 min Scan# 1873

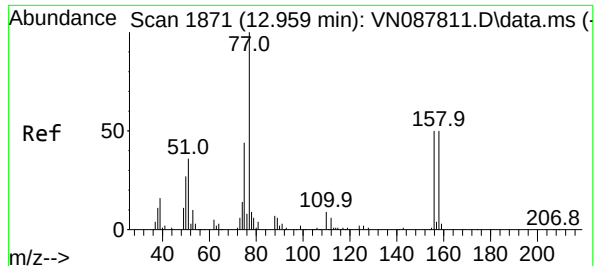
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

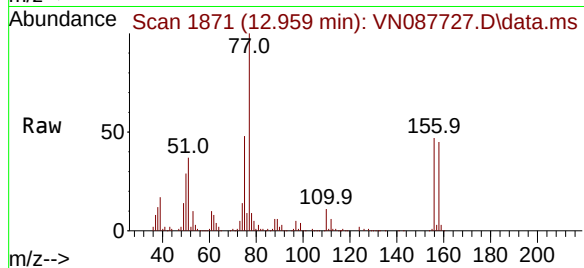
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 227694 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 178.0 | 0.0   | 378.8  |





#73  
Bromobenzene  
Concen: 51.479 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

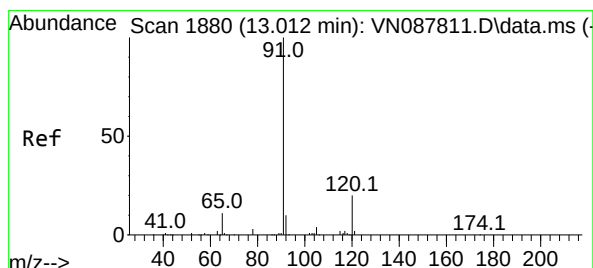
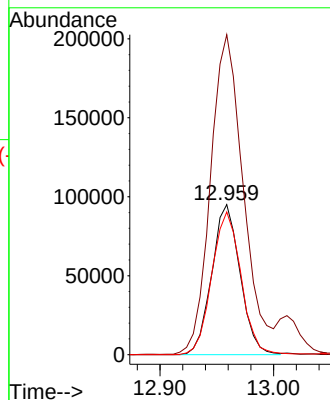
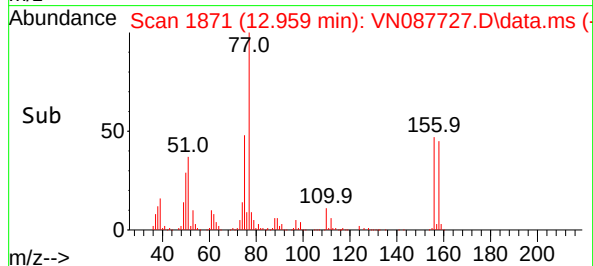
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



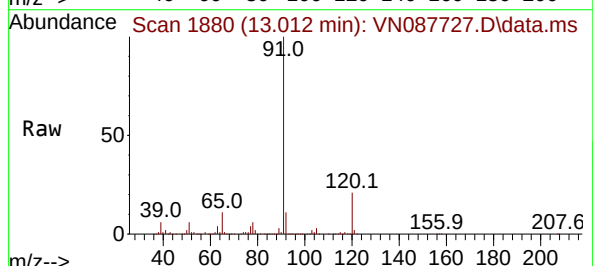
Tgt Ion:156 Resp: 16463  
Ion Ratio Lower Upper  
156 100  
77 246.1 0.0 484.2  
158 98.6 0.0 186.2

Manual Integrations  
APPROVED

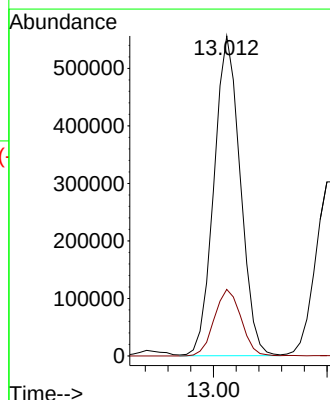
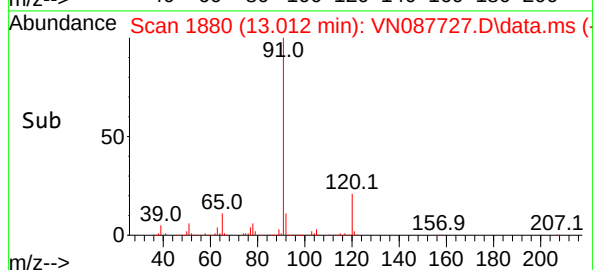
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

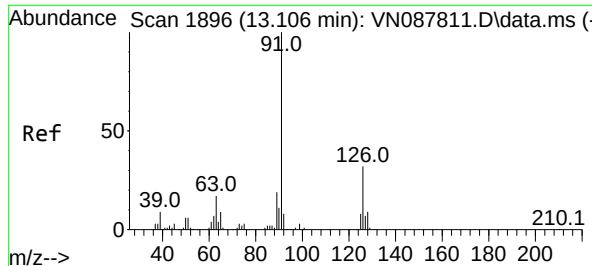


#74  
n-propylbenzene  
Concen: 52.574 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



Tgt Ion: 91 Resp: 894796  
Ion Ratio Lower Upper  
91 100  
120 21.1 0.0 42.2





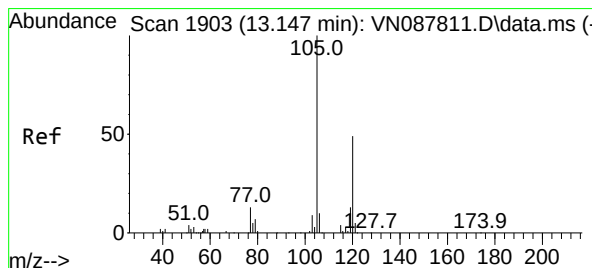
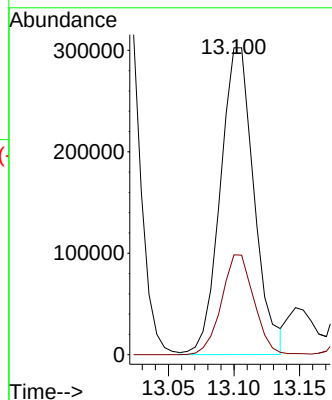
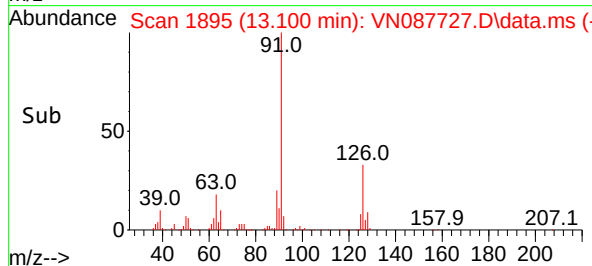
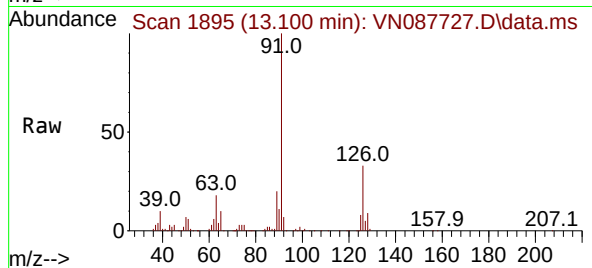
#75  
2-Chlorotoluene  
Concen: 51.771 ug/l  
RT: 13.100 min Scan# 1896  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050

Tgt Ion: 91 Resp: 542010  
Ion Ratio Lower Upper  
91 100  
126 31.4 0.0 60.4

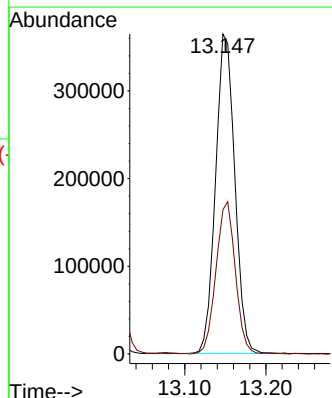
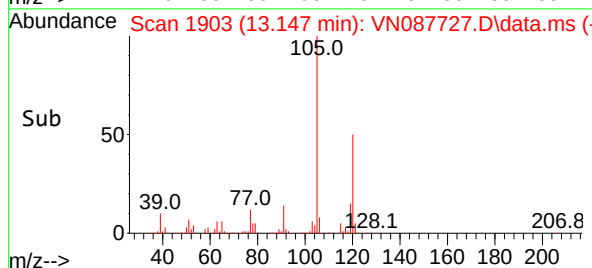
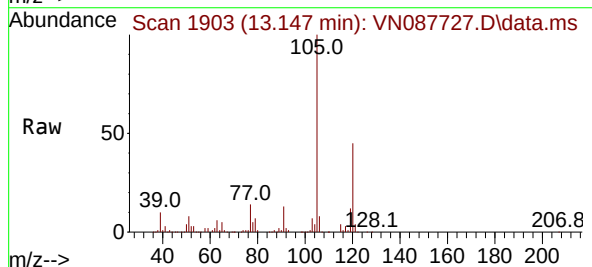
Manual Integrations  
APPROVED

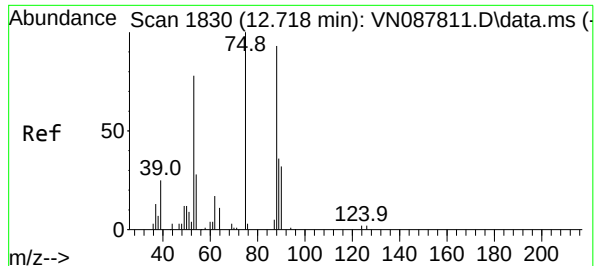
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 51.829 ug/l  
RT: 13.147 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion:105 Resp: 601688  
Ion Ratio Lower Upper  
105 100  
120 47.7 0.0 92.6





#77

t-1,4-Dichloro-2-butene

Concen: 50.352 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

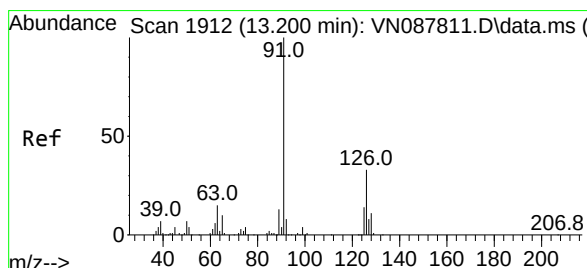
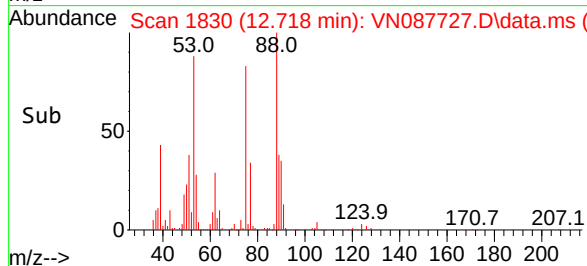
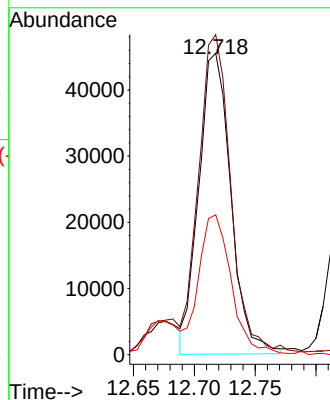
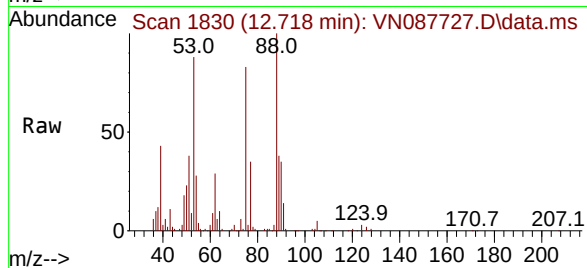
VSTDICC050

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 83260 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 105.0 | 45.3  | 135.9 |
| 89        | 46.7  | 18.8  | 56.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78

4-Chlorotoluene

Concen: 52.151 ug/l

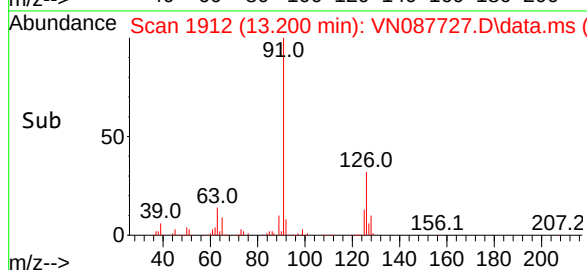
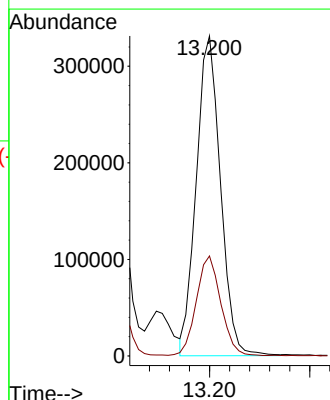
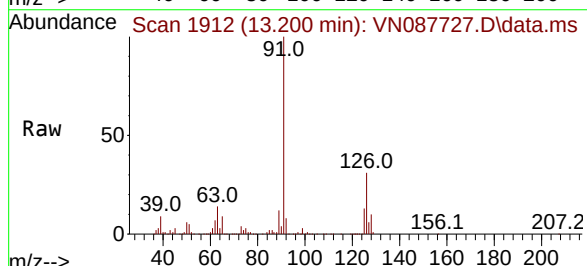
RT: 13.200 min Scan# 1912

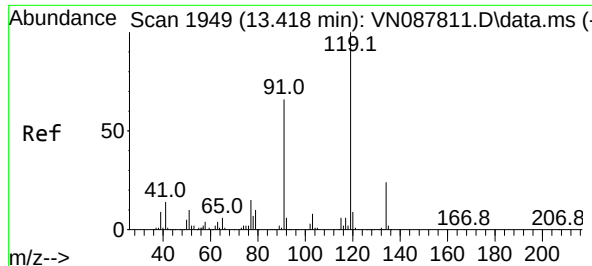
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 555670 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 31.9  | 0.0   | 67.0   |





#79

tert-butylbenzene

Concen: 51.663 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

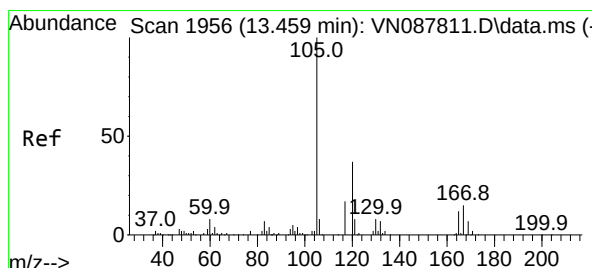
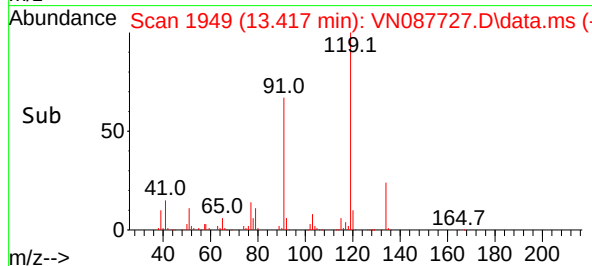
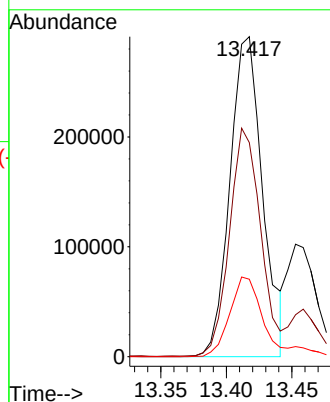
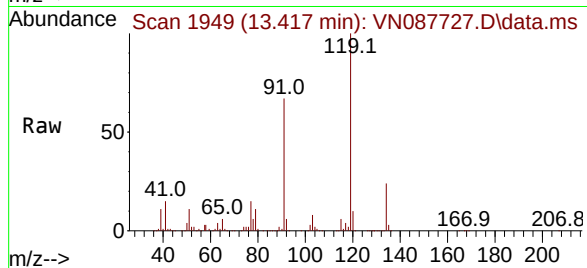
Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 67.8  | 0.0   | 142.6 |
| 134     | 24.4  | 0.0   | 47.2  |

Manual Integrations  
APPROVEDReviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

#80

1,2,4-Trimethylbenzene

Concen: 53.295 ug/l

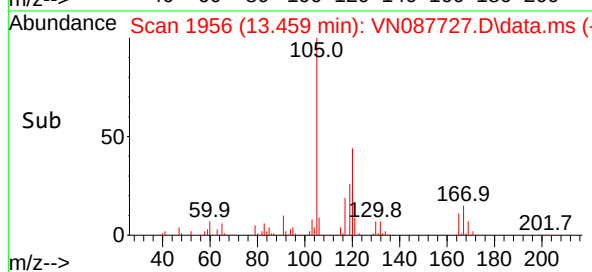
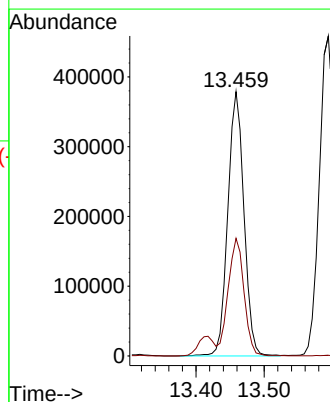
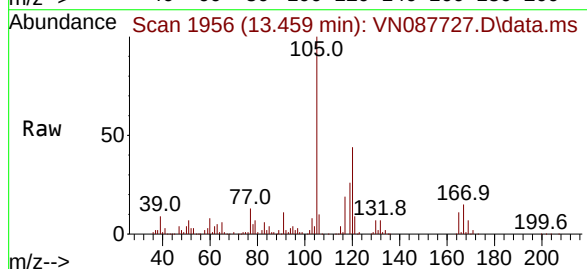
RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

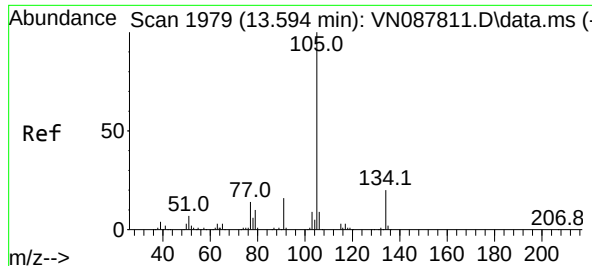
Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 43.7  | 0.0   | 86.6  |

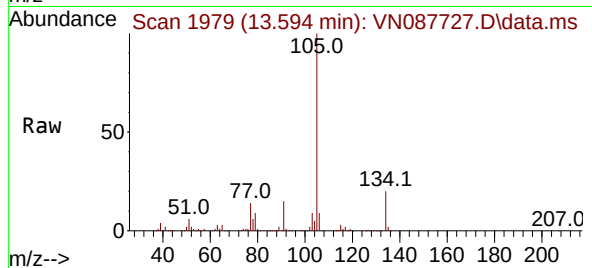






#81  
sec-Butylbenzene  
Concen: 51.833 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

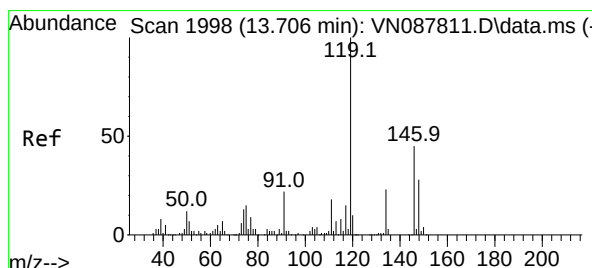
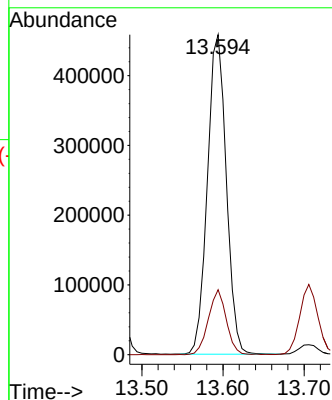
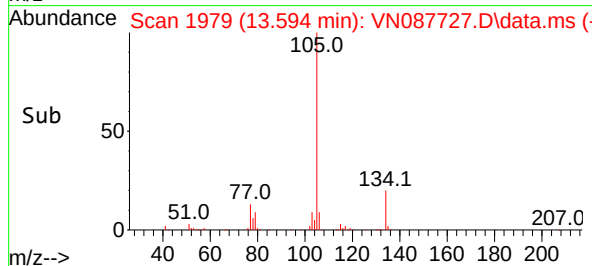
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC050



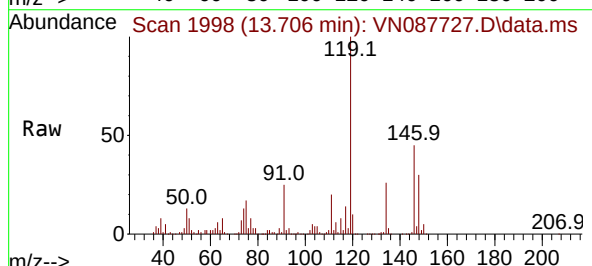
Tgt Ion:105 Resp: 73923  
Ion Ratio Lower Upper  
105 100  
134 19.3 0.0 37.0

Manual Integrations  
APPROVED

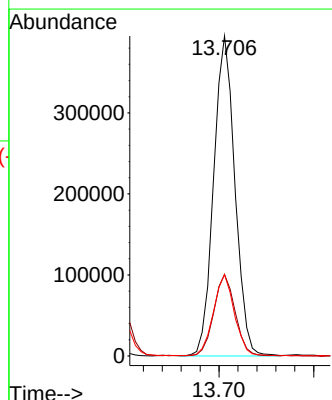
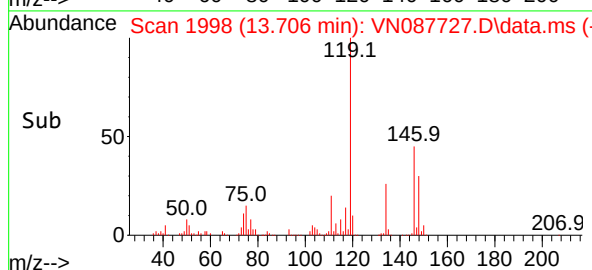
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

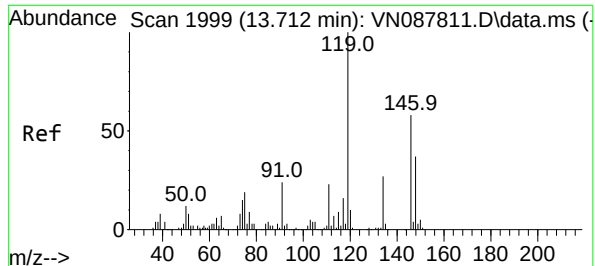


#82  
p-Isopropyltoluene  
Concen: 52.179 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05



Tgt Ion:119 Resp: 616043  
Ion Ratio Lower Upper  
119 100  
134 25.5 0.0 49.4  
91 25.0 0.0 52.2





#83

1,3-Dichlorobenzene

Concen: 53.944 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

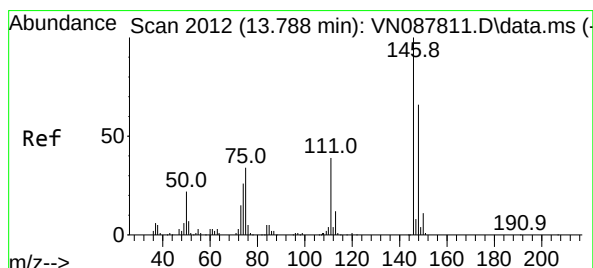
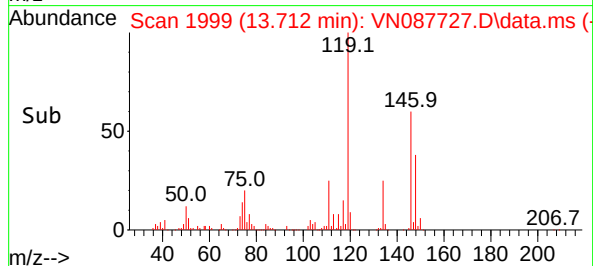
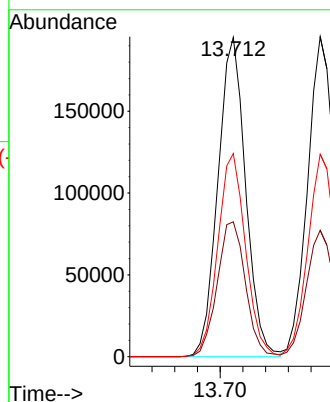
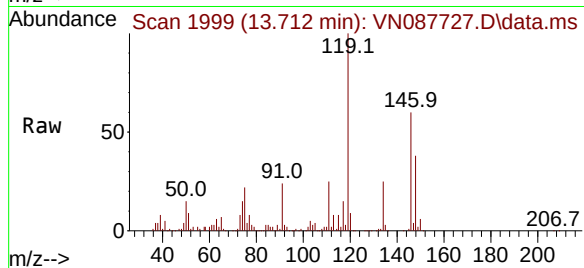
ClientSampleId :

VSTDIC050

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 33054 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 43.1  | 21.1  | 63.4  |
| 148       | 63.7  | 31.0  | 93.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 53.977 ug/l

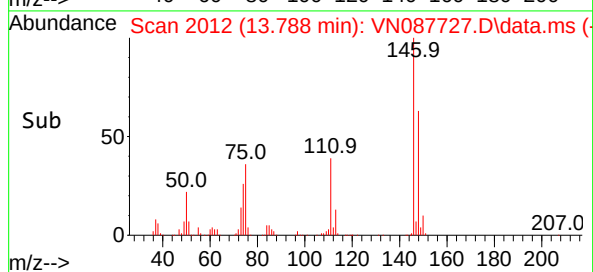
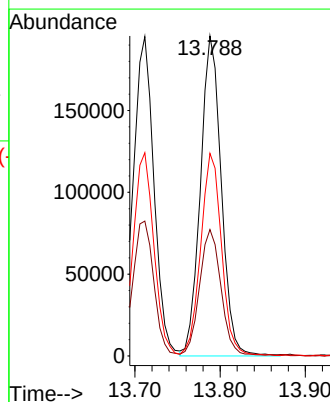
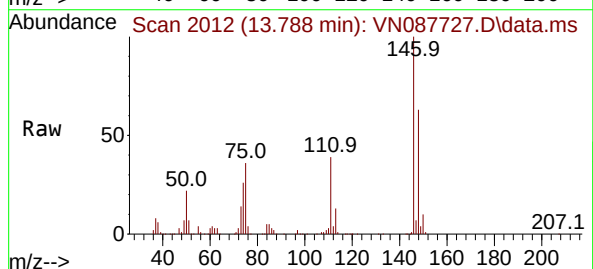
RT: 13.788 min Scan# 2012

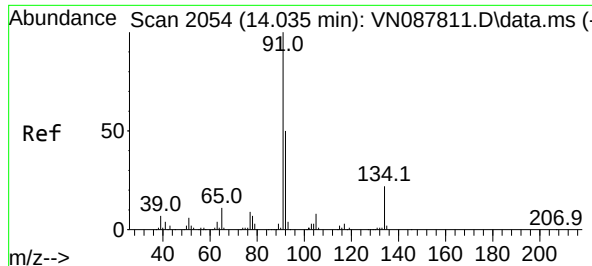
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 332962 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.7  | 20.2  | 60.5   |
| 148       | 63.6  | 31.5  | 94.5   |





#85

n-Butylbenzene

Concen: 52.220 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

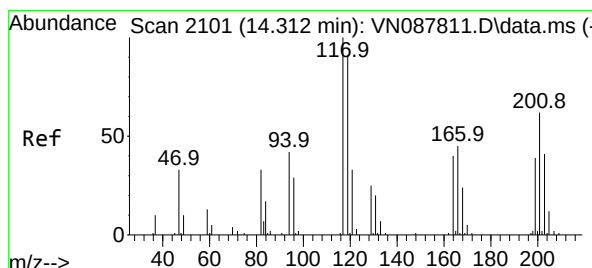
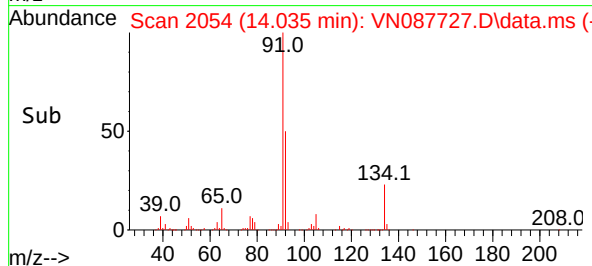
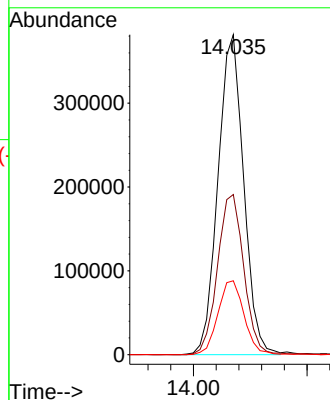
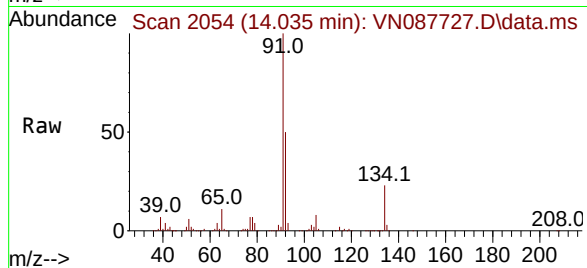
VSTDICC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 598838 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 51.6  | 0.0   | 104.0  |
| 134      | 23.5  | 0.0   | 46.0   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86

Hexachloroethane

Concen: 52.103 ug/l

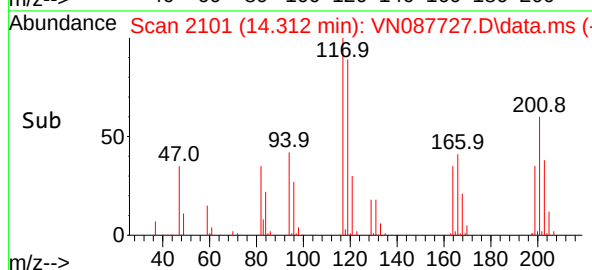
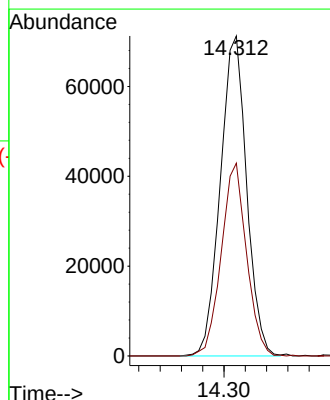
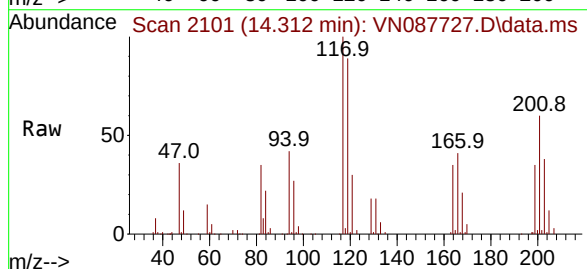
RT: 14.312 min Scan# 2101

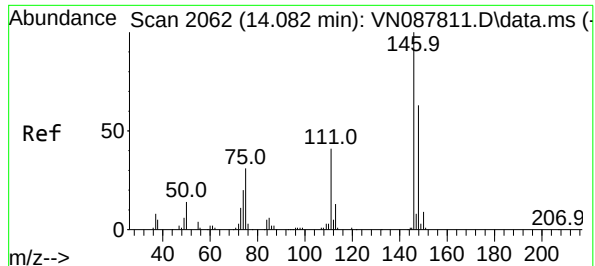
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 122090 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 201      | 57.9  | 29.9  | 89.7   |





#87

1,2-Dichlorobenzene

Concen: 53.771 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC050

Tgt Ion:146 Resp: 31243

Ion Ratio Lower Upper

146 100

111 44.5 21.5 64.5

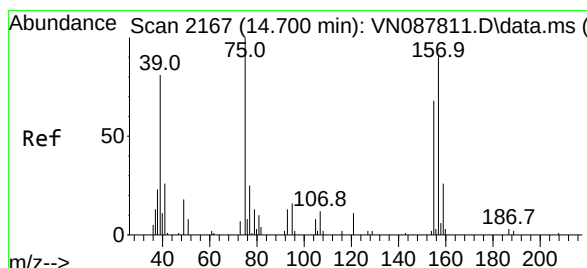
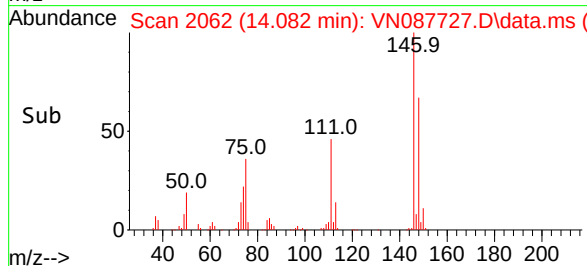
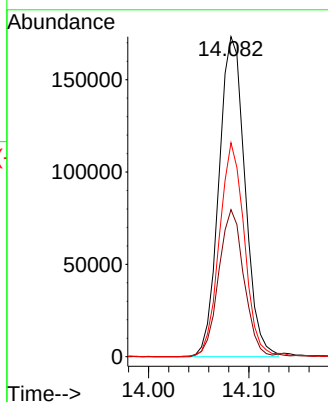
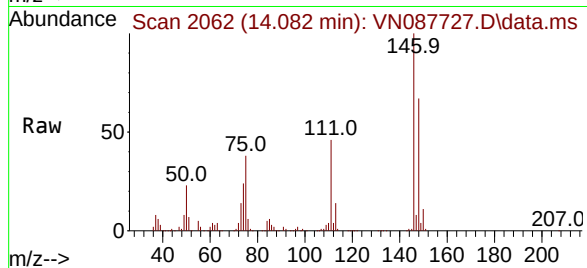
148 63.9 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 46.188 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

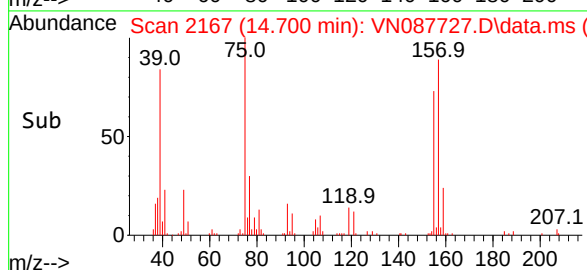
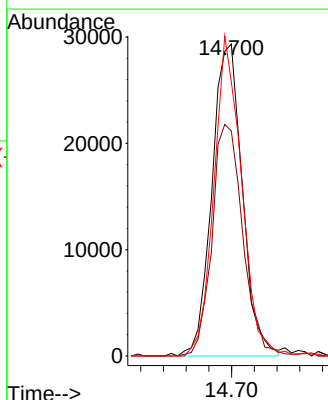
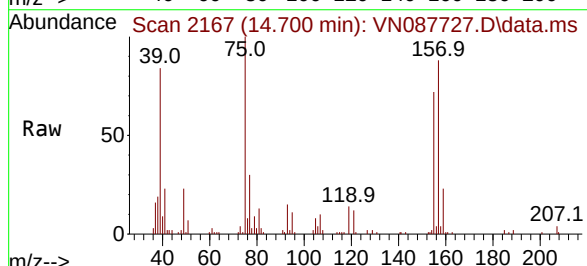
Tgt Ion: 75 Resp: 54360

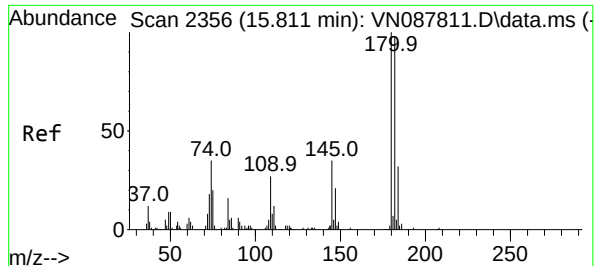
Ion Ratio Lower Upper

75 100

155 75.3 53.0 79.4

157 93.3 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 51.096 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

Instrument :

MSVOA\_N

ClientSampleId :

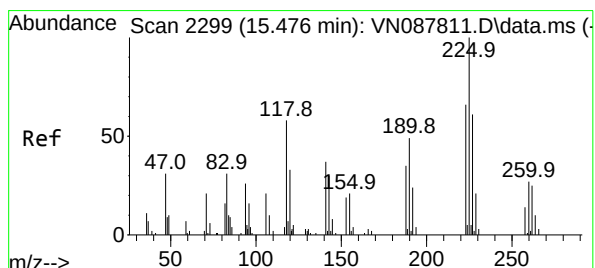
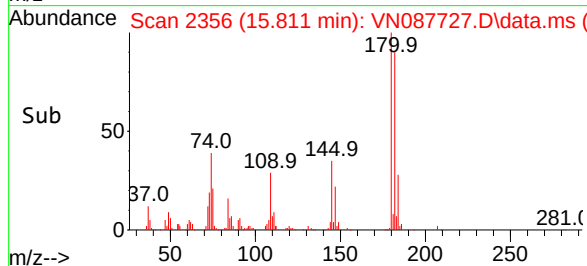
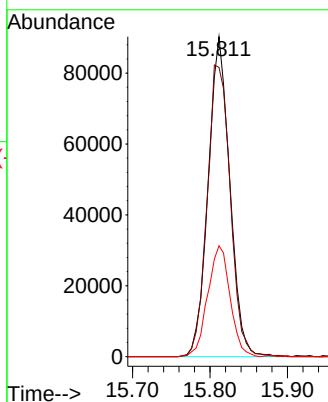
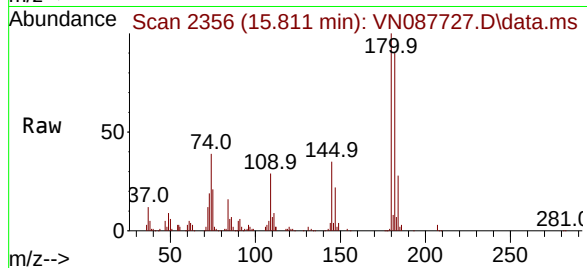
VSTDIC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 175450 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 97.3  | 74.6  | 111.8  |
| 145       | 35.7  | 27.4  | 41.0   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 43.773 ug/l

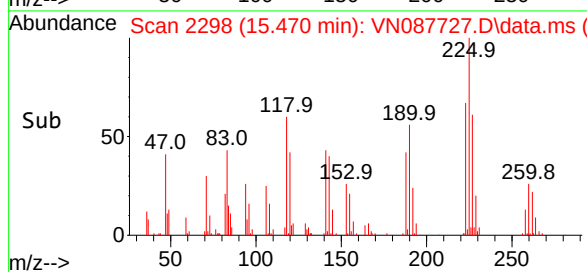
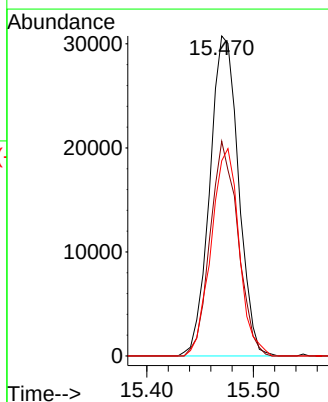
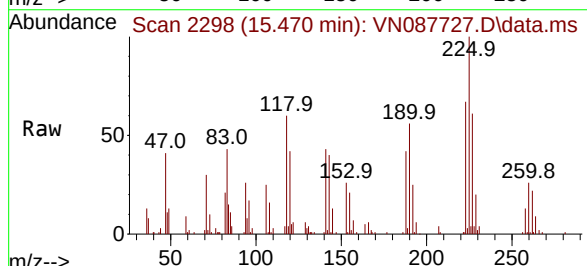
RT: 15.470 min Scan# 2298

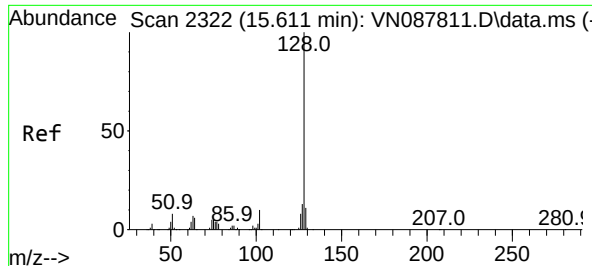
Delta R.T. -0.000 min

Lab File: VN087727.D

Acq: 04 Sep 2025 17:05

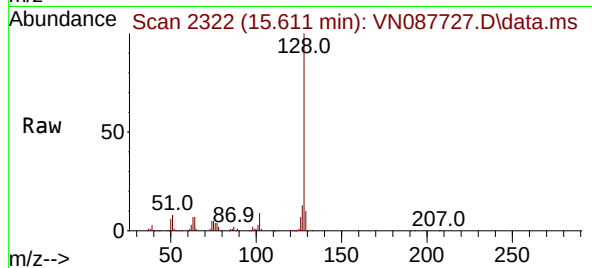
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 57621 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 64.8  | 0.0   | 118.2 |
| 227       | 63.0  | 0.0   | 139.0 |





#91  
Naphthalene  
Concen: 50.727 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

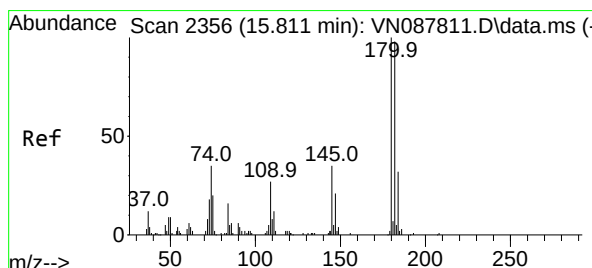
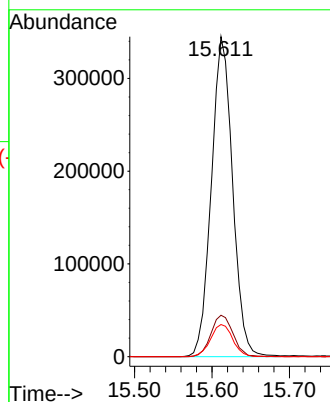
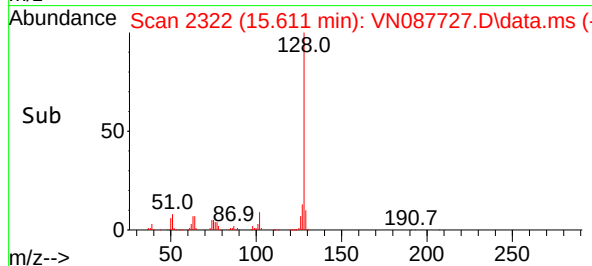
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC050



Tgt Ion:128 Resp: 65655  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.2 15.4  
129 10.5 8.3 12.5

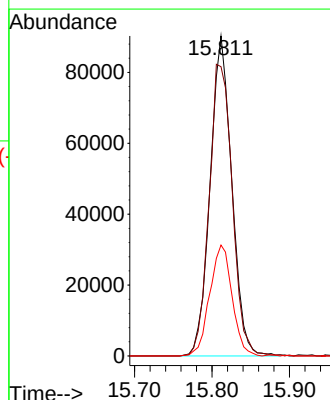
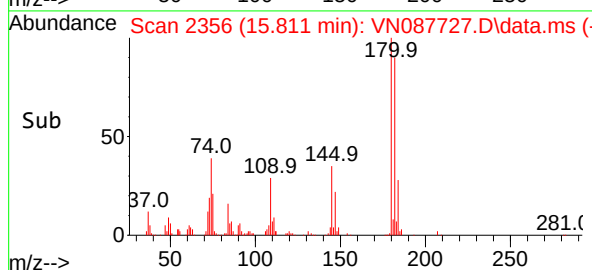
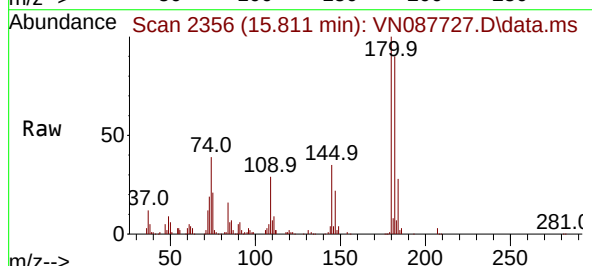
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 51.096 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087727.D  
Acq: 04 Sep 2025 17:05

Tgt Ion:180 Resp: 175450  
Ion Ratio Lower Upper  
180 100  
182 97.3 0.0 186.4  
145 35.7 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087728.D  
 Acq On : 04 Sep 2025 17:25  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDICC100

## Manual Integrations

## APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:58:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 02:54:56 2025

Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 46852      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 242946     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 230623     | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 117102     | 27.758   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 92.533%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.823         | 95   | 115538     | 29.459   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 98.200%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 323414     | 30.351   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.167% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 313567     | 105.918  | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 318166     | 105.287  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.536          | 62   | 361611     | 111.652  | ug/l   | 98       |
| 5) Bromomethane              | 2.965          | 94   | 215103     | 120.487  | ug/l   | 94       |
| 6) Chloroethane              | 3.130          | 64   | 237607     | 112.048  | ug/l   | 88       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 524031     | 111.602  | ug/l   | 87       |
| 8) Diethyl Ether             | 3.959          | 74   | 215410     | 110.579  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 277895     | 113.762  | ug/l   | 42       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 294057     | 116.806  | ug/l   | 92       |
| 11) Methyl Iodide            | 4.583          | 142  | 246645     | 124.799  | ug/l   | 90       |
| 12) Methyl Acetate           | 5.018          | 43   | 465095     | 101.938  | ug/l   | 99       |
| 13) Acrolein                 | 4.177          | 56   | 404438m    | 566.983  | ug/l   |          |
| 14) Acrylonitrile            | 5.712          | 53   | 995146     | 504.249  | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 276885     | 494.569  | ug/l   | 84       |
| 16) Carbon Disulfide         | 4.706          | 76   | 801928     | 104.109  | ug/l # | 91       |
| 17) Allyl chloride           | 5.012          | 41   | 481807     | 96.965   | ug/l   | 92       |
| 18) Methylene Chloride       | 5.265          | 84   | 326426     | 102.788  | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 306937     | 104.453  | ug/l   | 94       |
| 20) Diisopropyl ether        | 6.659          | 45   | 1145464    | 101.181  | ug/l   | 95       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 605635     | 102.873  | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 370129     | 102.956  | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 340216     | 414.715  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 1088266    | 98.657   | ug/l   | 97       |
| 25) Chloroform               | 7.947          | 83   | 632337     | 102.023  | ug/l   | 95       |
| 26) Cyclohexane              | 8.235          | 56   | 470916     | 101.149  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 418041     | 107.353  | ug/l   | 99       |
| 30) 2-Butanone               | 7.471          | 43   | 1409990    | 499.926  | ug/l   | 98       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 498763     | 102.230  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 524015     | 104.920  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 431973     | 105.102  | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 1341472    | 108.630  | ug/l   | 96       |
| 35) Methacrylonitrile        | 7.765          | 41   | 305644     | 99.759   | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 500793     | 101.728  | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 296546     | 109.044  | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.582          | 83   | 466295     | 104.964  | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 346311     | 109.431  | ug/l   | 98       |
| 40) Dibromomethane           | 9.688          | 93   | 255456     | 107.958  | ug/l   | 98       |
| 41) Bromodichloromethane     | 9.871          | 83   | 524173     | 106.078  | ug/l   | 96       |
| 42) Vinyl Acetate            | 6.588          | 43   | 4938740    | 532.259  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087728.D  
 Acq On : 04 Sep 2025 17:25  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 05 02:58:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 570267   | 102.596  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 951384   | 102.889  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 116145   | 1961.964 | ug/l # | 81       |
| 46) Methyl methacrylate       | 9.665  | 41   | 440189   | 101.703  | ug/l   | 97       |
| 47) n-amyl Acetate            | 12.488 | 43   | 640178m  | 119.074  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 563552   | 106.986  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 576775   | 108.492  | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 324897   | 108.095  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 569562   | 111.057  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 582005   | 108.009  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.341 | 129  | 378765   | 110.707  | ug/l   | 93       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 342831   | 108.245  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 1528234  | 551.521  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 252313   | 111.308  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 2897553  | 507.772  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 2049165  | 530.247  | ug/l   | 97       |
| 61) Tetrachloroethene         | 11.082 | 164  | 234889   | 105.508  | ug/l   | 94       |
| 62) Toluene                   | 10.612 | 91   | 1487570  | 107.196  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 915703   | 107.540  | ug/l   | 94       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 316148   | 105.470  | ug/l   | 97       |
| 66) Ethyl Benzene             | 11.941 | 91   | 1649107  | 107.822  | ug/l   | 94       |
| 67) m/p-Xylenes               | 12.047 | 106  | 1230087  | 218.504  | ug/l   | 96       |
| 68) o-Xylene                  | 12.376 | 106  | 594671   | 107.086  | ug/l   | 95       |
| 69) Styrene                   | 12.388 | 104  | 1056802  | 111.873  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.670 | 105  | 1525065  | 109.171  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 514778   | 105.616  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 480400m  | 105.647  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 356832   | 108.052  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 1910176  | 108.687  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 1125992  | 104.153  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 1280589  | 106.824  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 189778   | 111.145  | ug/l   | 85       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 1157012  | 105.159  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 1071115  | 106.056  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 1304823  | 107.903  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 1563520  | 106.168  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 1301395  | 106.747  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 691902   | 109.350  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 697980   | 109.576  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 1257557  | 106.198  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.311 | 117  | 253844   | 104.907  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 657359   | 109.561  | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 118055   | 97.139   | ug/l   | 93       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 377288   | 106.405  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 122782   | 90.327   | ug/l   | 94       |
| 91) Naphthalene               | 15.611 | 128  | 1453918  | 108.784  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 377288   | 106.405  | ug/l   | 99       |

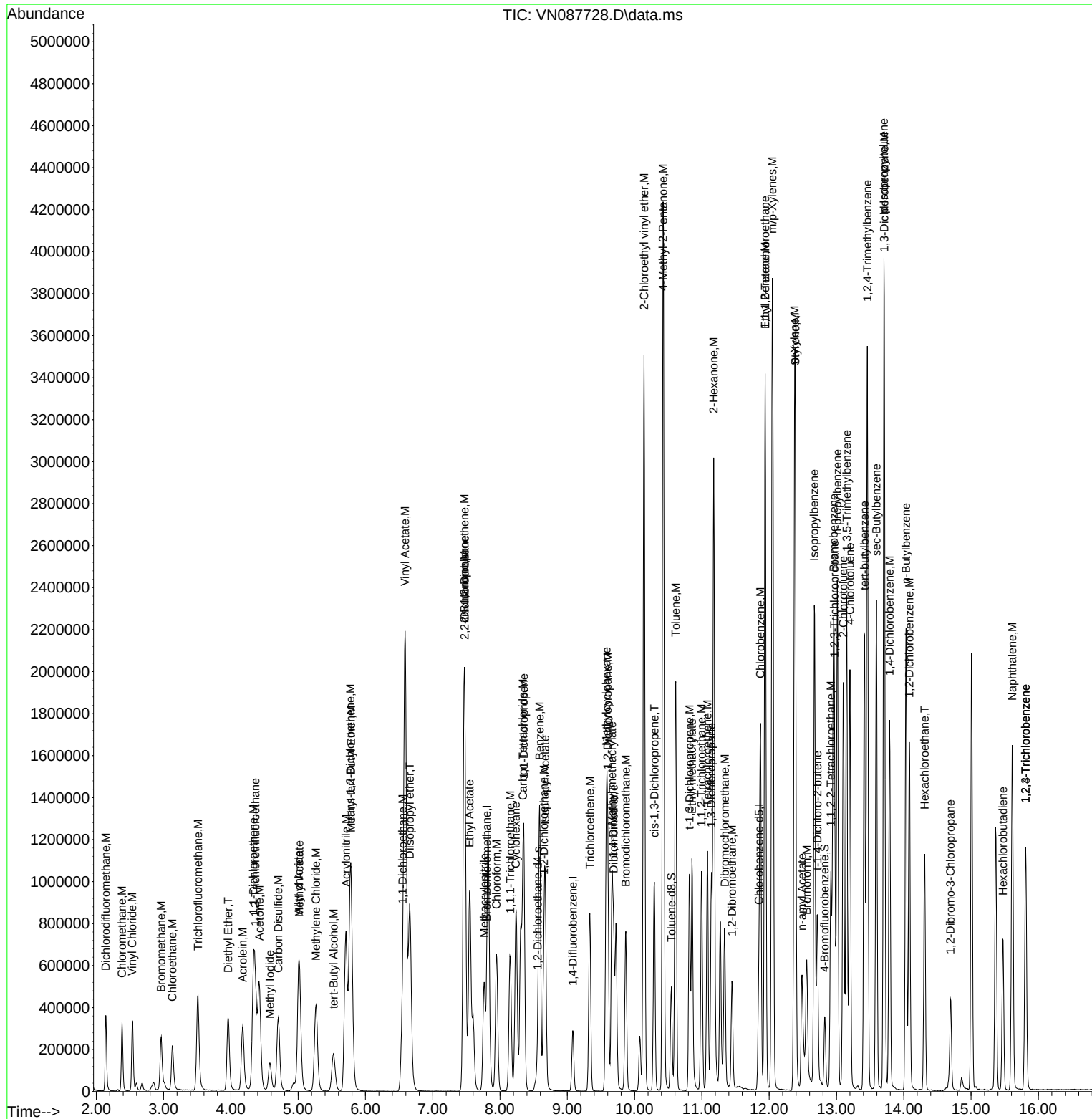
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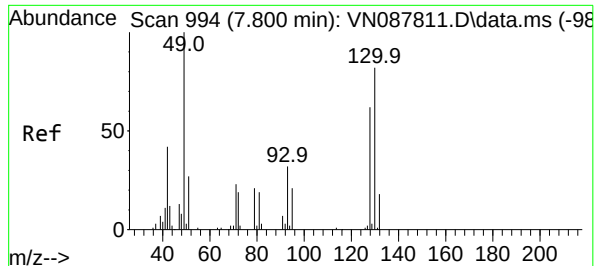


**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC100

## Manual Integrations

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025





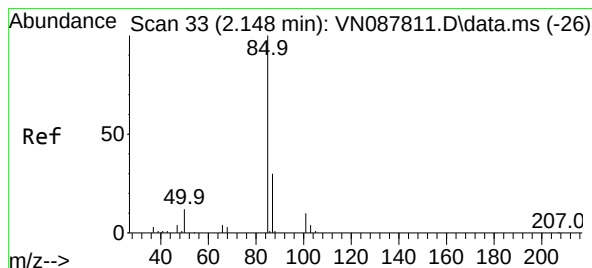
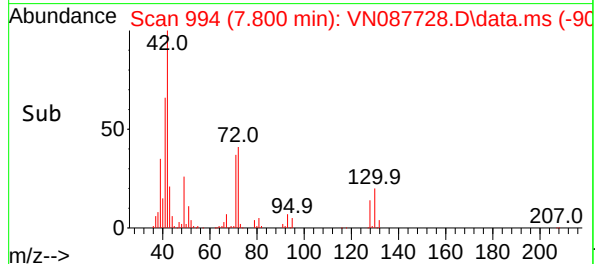
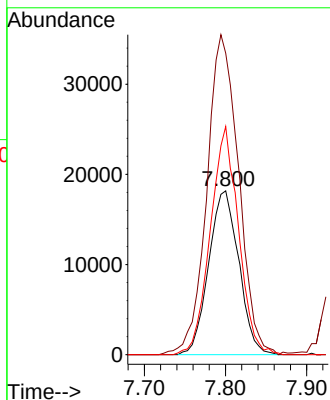
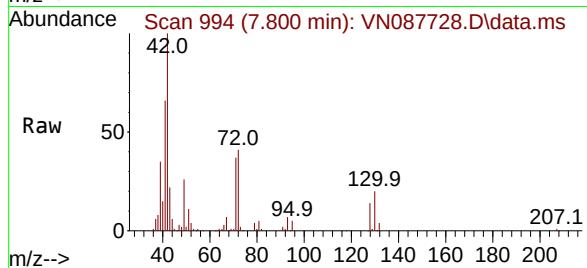
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:128 Resp: 46852  
Ion Ratio Lower Upper  
128 100  
49 206.0 0.0 464.3  
130 130.5 0.0 300.5

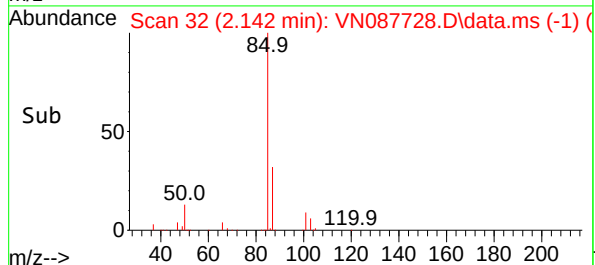
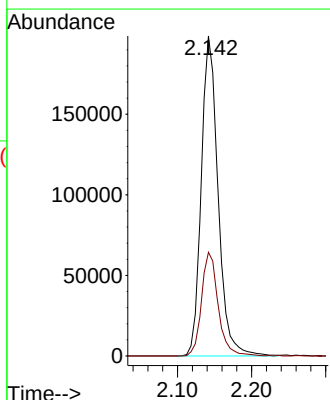
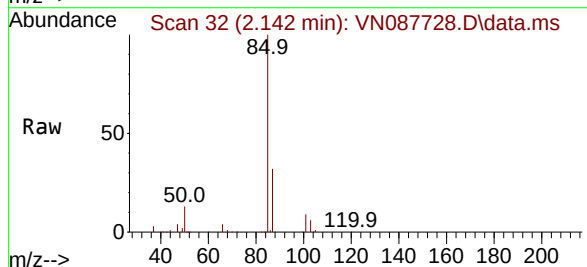
Manual Integrations  
APPROVED

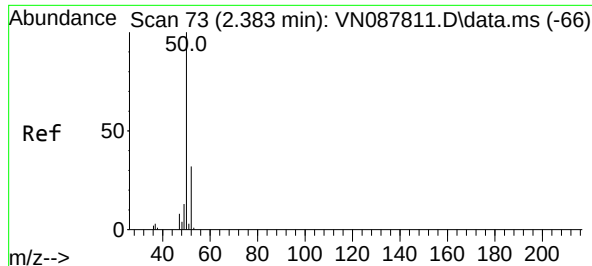
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 105.918 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

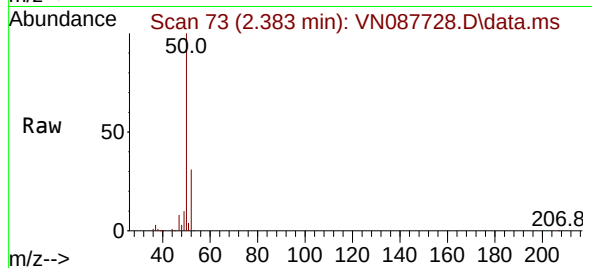
Tgt Ion: 85 Resp: 313567  
Ion Ratio Lower Upper  
85 100  
87 32.4 16.8 50.4





#3  
Chloromethane  
Concen: 105.287 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

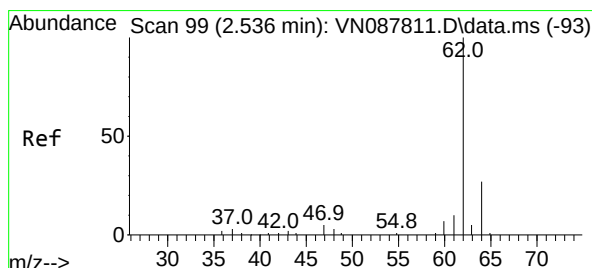
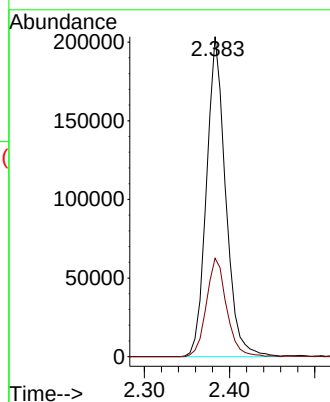
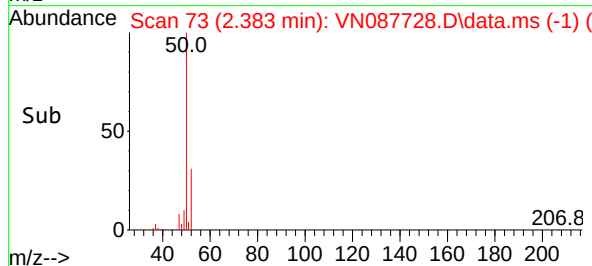
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 50 Resp: 318160  
Ion Ratio Lower Upper  
50 100  
52 30.8 26.6 40.0

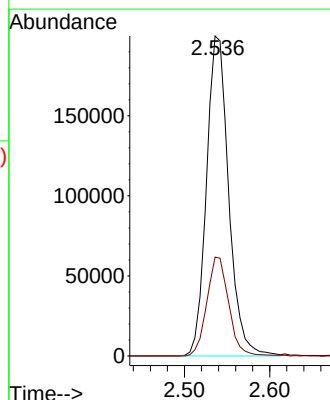
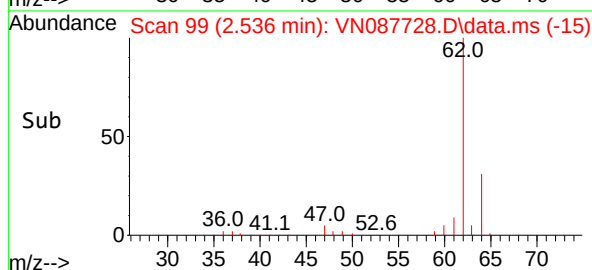
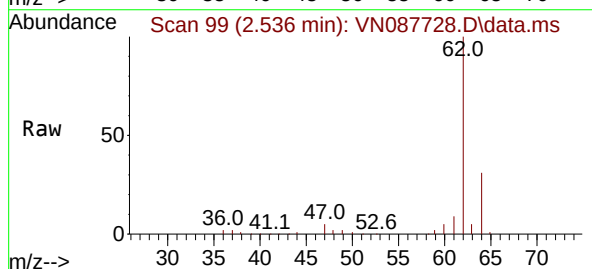
Manual Integrations  
APPROVED

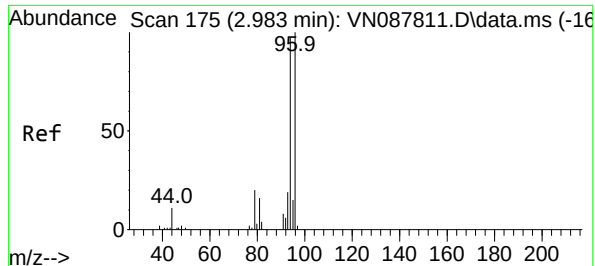
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 111.652 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

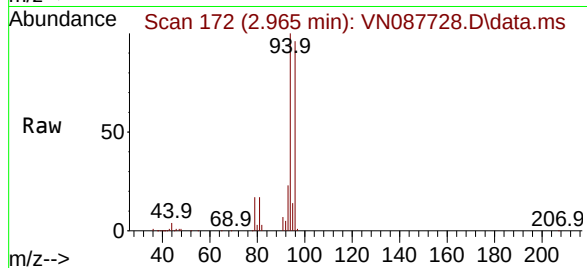
Tgt Ion: 62 Resp: 361611  
Ion Ratio Lower Upper  
62 100  
64 30.9 25.5 38.3





#5  
Bromomethane  
Concen: 120.487 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

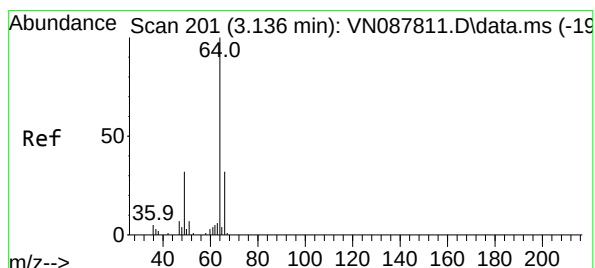
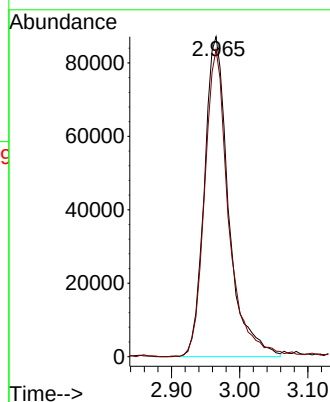
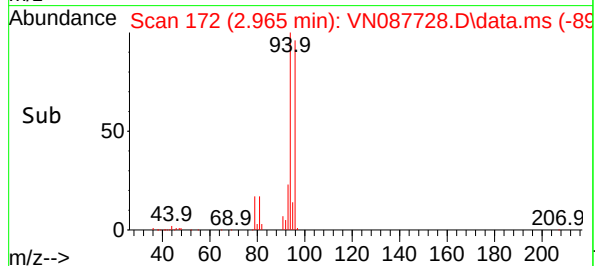
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 94 Resp: 21510  
Ion Ratio Lower Upper  
94 100  
96 95.7 72.2 108.4

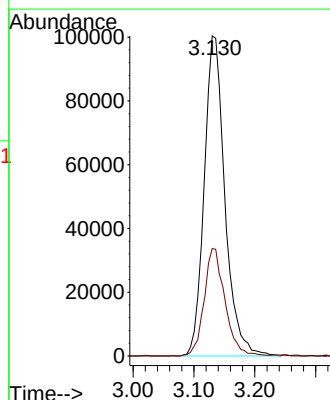
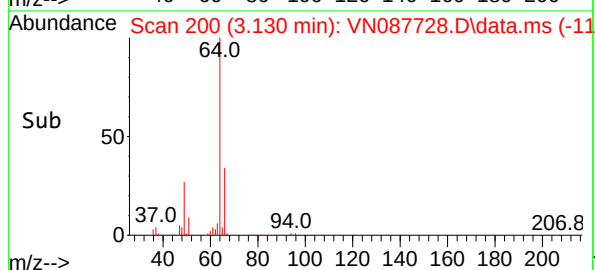
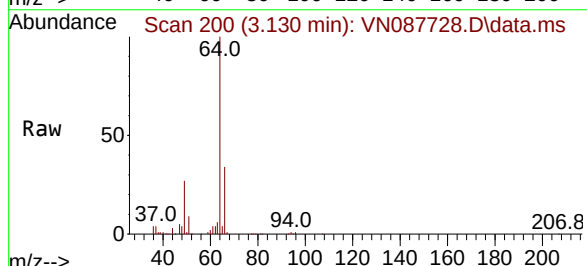
Manual Integrations  
APPROVED

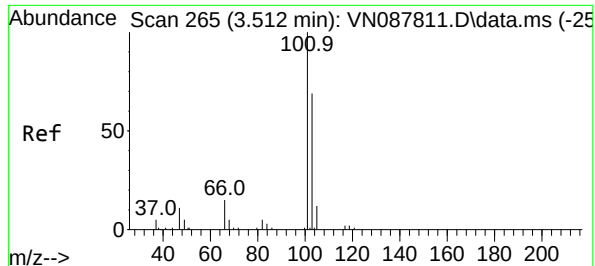
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 112.048 ug/l  
RT: 3.130 min Scan# 200  
Delta R.T. -0.012 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 64 Resp: 237607  
Ion Ratio Lower Upper  
64 100  
66 33.6 32.8 49.2





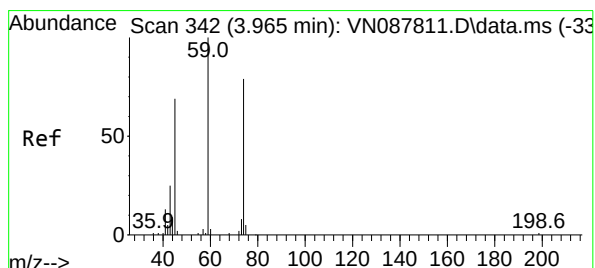
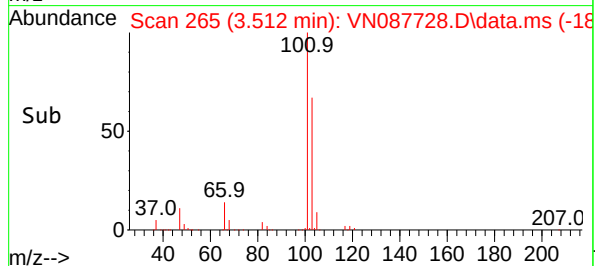
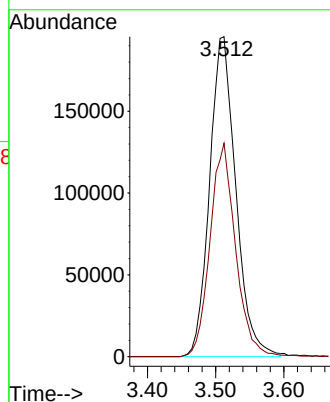
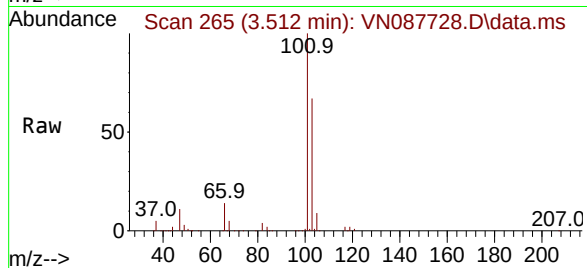
#7  
Trichlorofluoromethane  
Concen: 111.602 ug/l  
RT: 3.512 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:101 Resp: 52403  
Ion Ratio Lower Upper  
101 100  
103 66.7 45.7 68.5

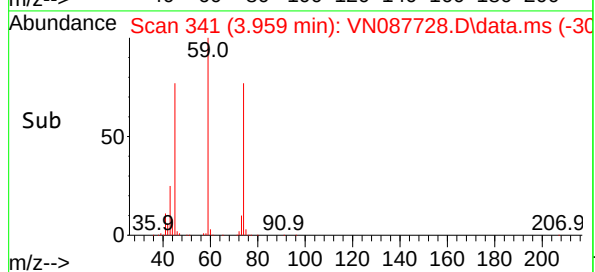
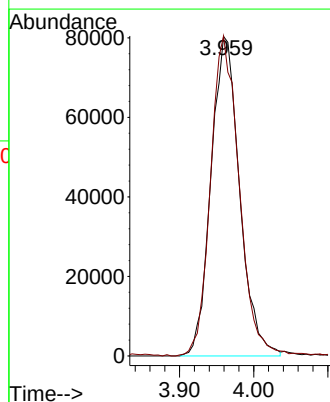
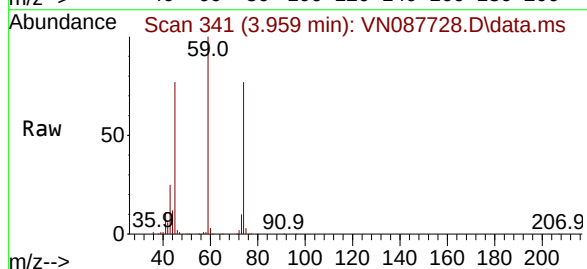
Manual Integrations  
APPROVED

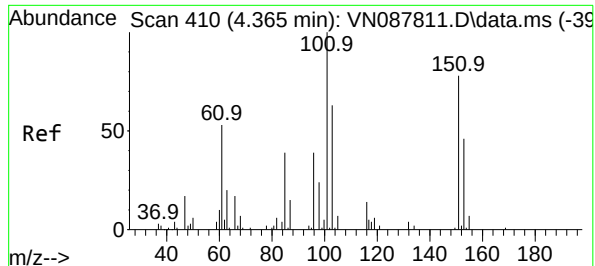
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 110.579 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 74 Resp: 215410  
Ion Ratio Lower Upper  
74 100  
45 100.1 20.4 183.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 113.762 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

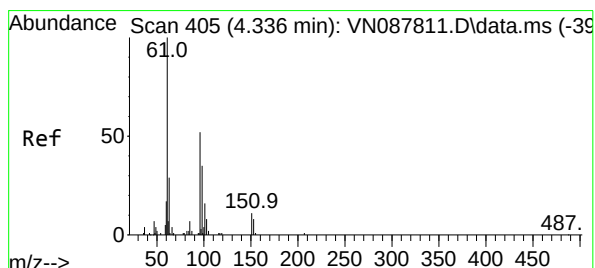
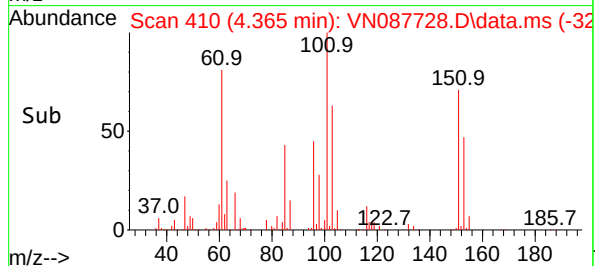
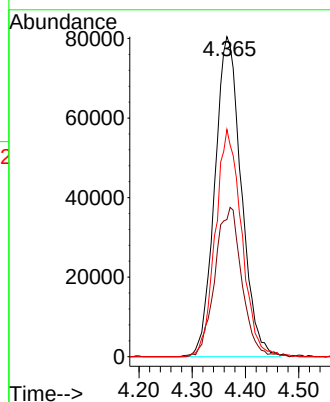
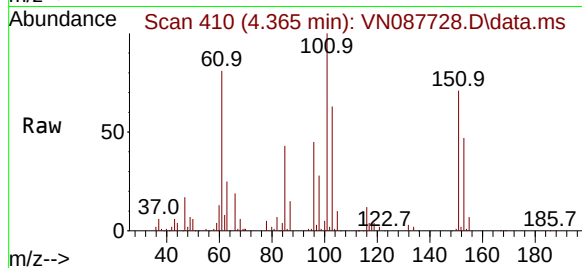
VSTDICC100

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 27789 |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 0.1   | 0.0   | 95.6  |
| 151      | 70.1  | 0.0   | 85.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 116.806 ug/l

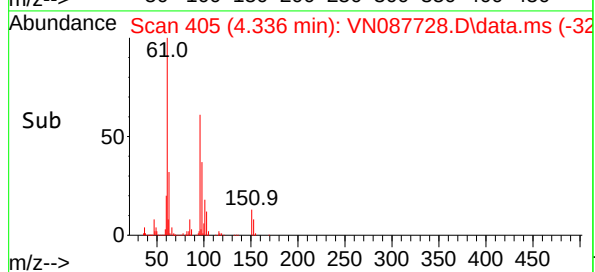
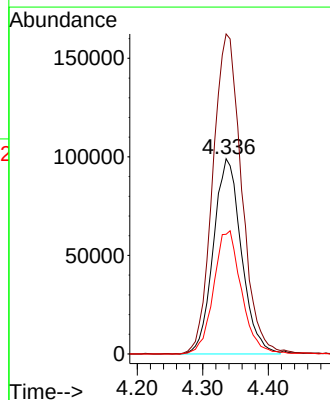
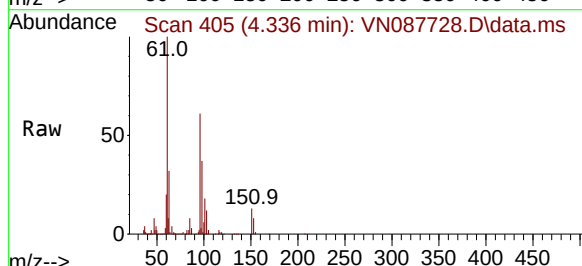
RT: 4.336 min Scan# 405

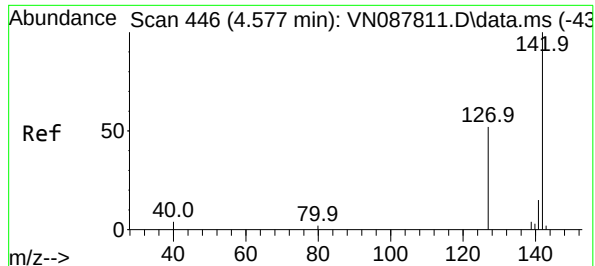
Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 294057 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 164.0 | 135.9 | 203.9  |
| 98       | 61.4  | 59.2  | 88.8   |





#11

Methyl Iodide

Concen: 124.799 ug/l

RT: 4.583 min Scan# 446

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion:142 Resp: 24664

Ion Ratio Lower Upper

142 100

127 48.3 27.9 83.7

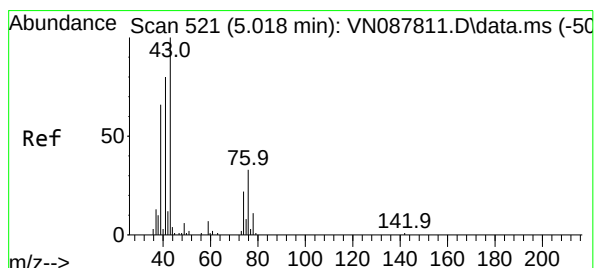
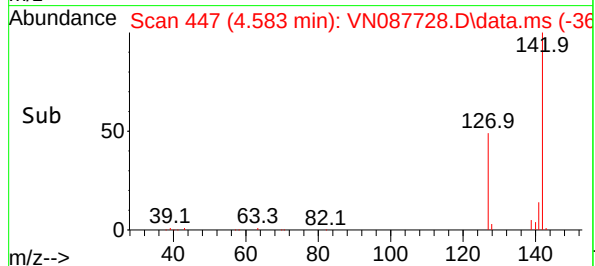
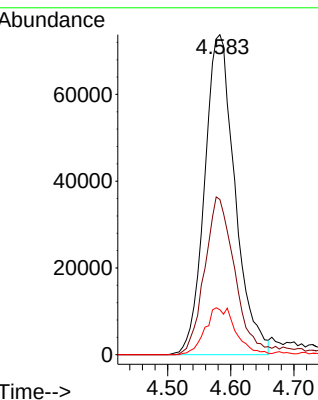
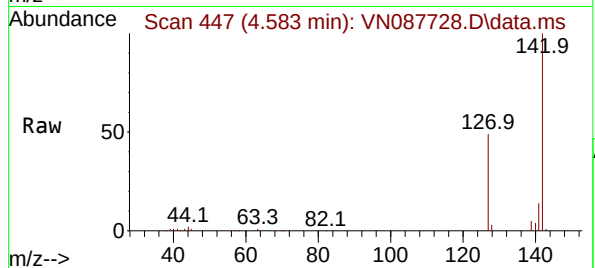
141 14.1 9.6 28.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 101.938 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN087728.D

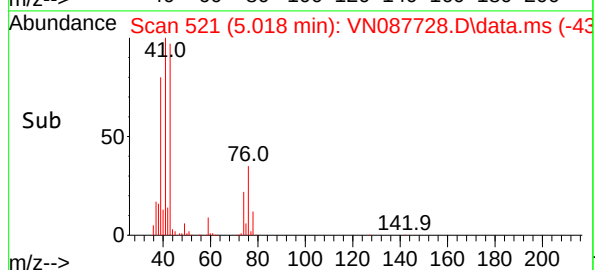
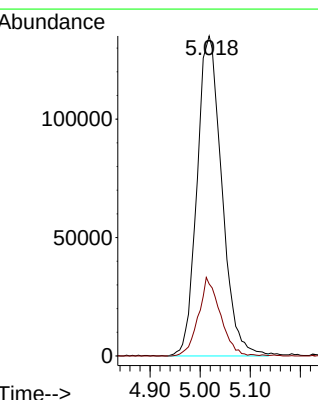
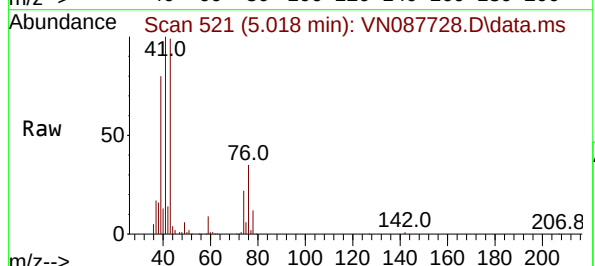
Acq: 04 Sep 2025 17:25

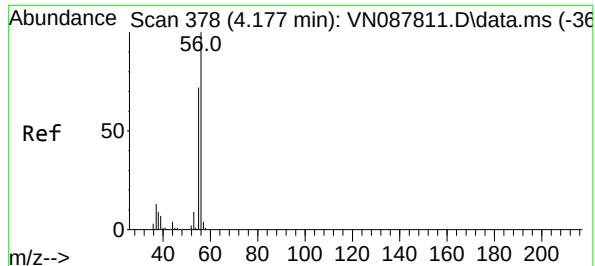
Tgt Ion: 43 Resp: 465095

Ion Ratio Lower Upper

43 100

74 22.5 17.5 26.3





#13

Acrolein

Concen: 566.983 ug/l m

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 404438

Ion Ratio Lower Upper

56 100

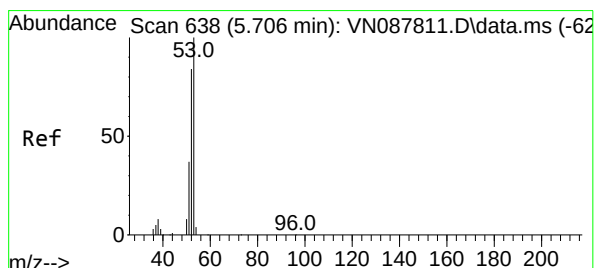
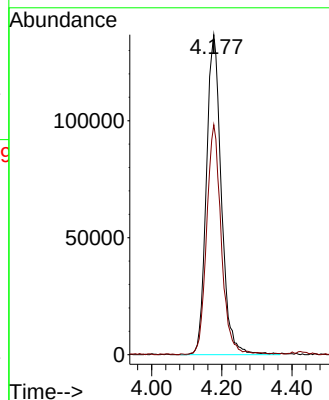
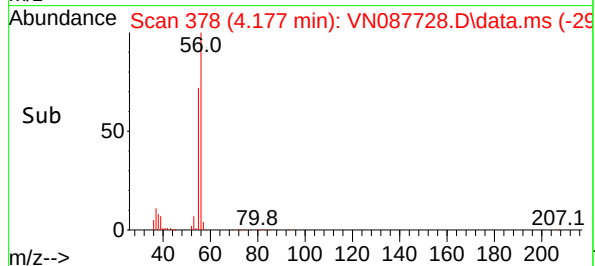
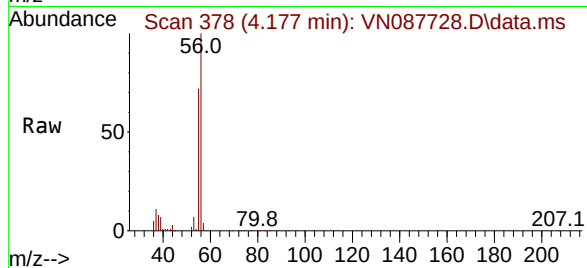
55 0.1 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 504.249 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

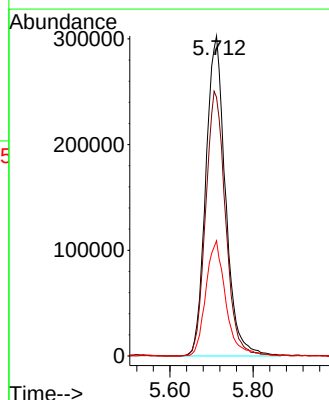
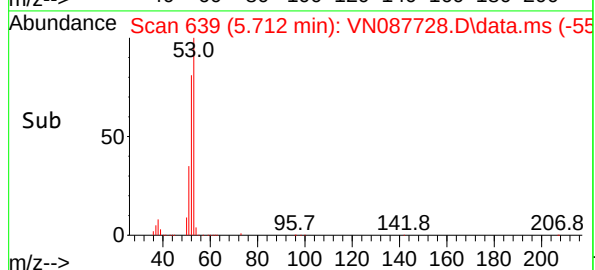
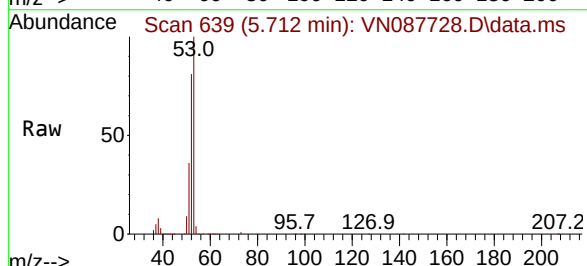
Tgt Ion: 53 Resp: 995146

Ion Ratio Lower Upper

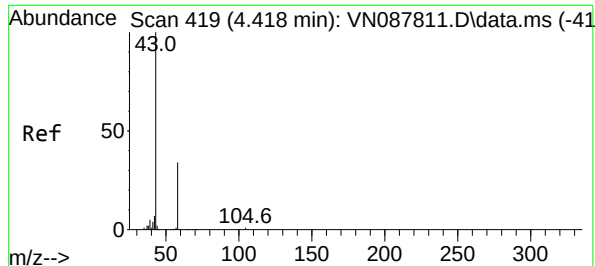
53 100

52 82.9 40.9 122.7

51 35.8 18.1 54.1







#15

Acetone

Concen: 494.569 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 58 Resp: 27688

Ion Ratio Lower Upper

58 100

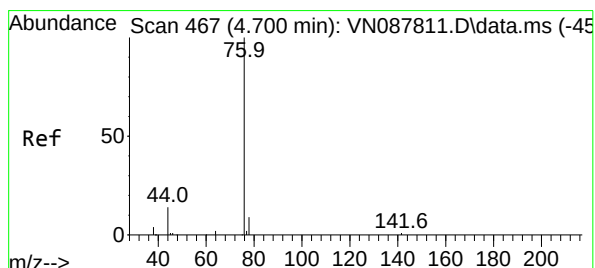
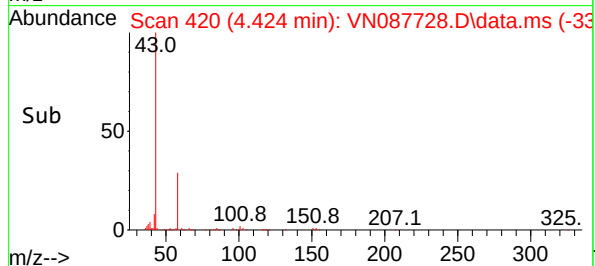
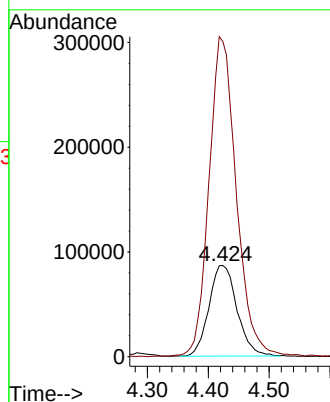
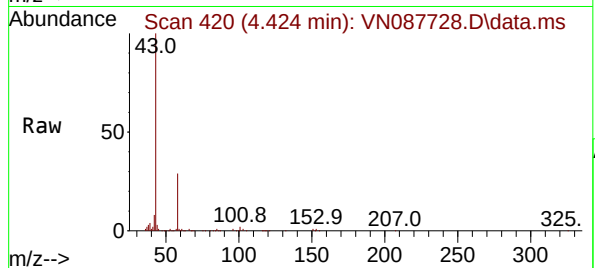
43 345.9 250.6 376.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#16

Carbon Disulfide

Concen: 104.109 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN087728.D

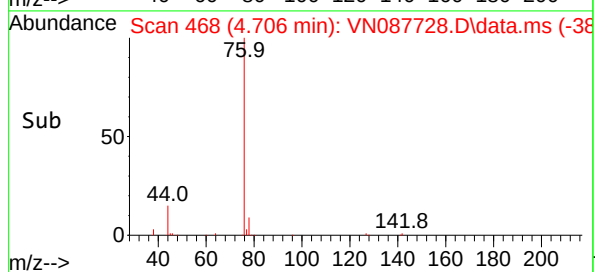
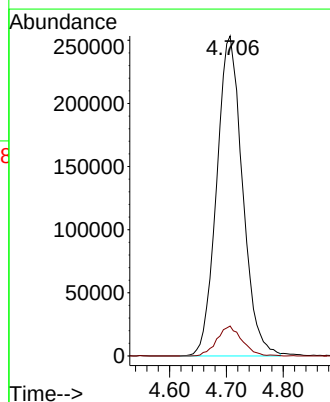
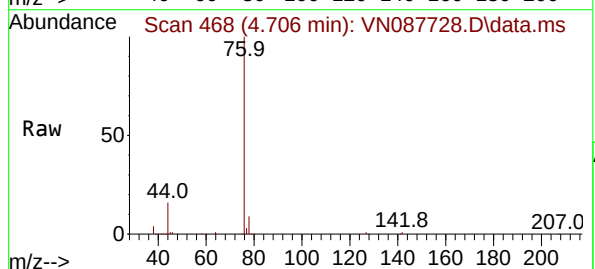
Acq: 04 Sep 2025 17:25

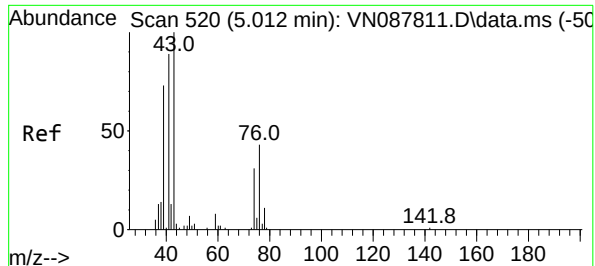
Tgt Ion: 76 Resp: 801928

Ion Ratio Lower Upper

76 100

78 9.3 5.0 7.6#





#17

Allyl chloride

Concen: 96.965 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 48180

Ion Ratio Lower Upper

41 100

39 82.0 36.7 110.1

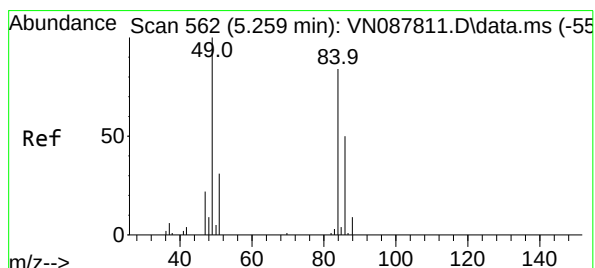
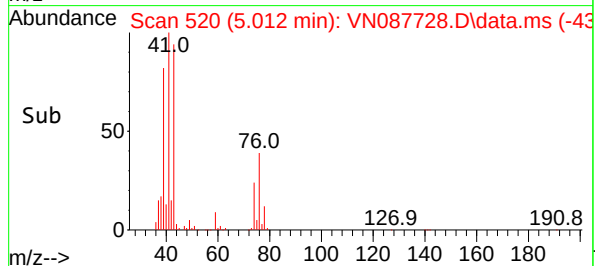
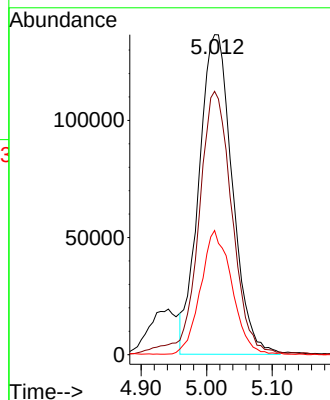
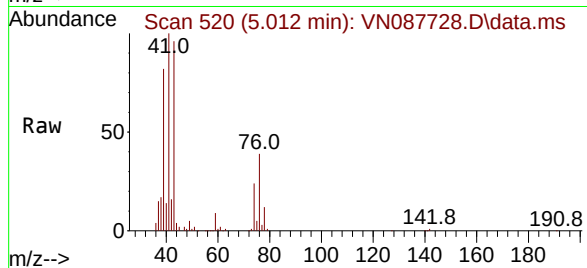
76 38.5 18.3 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 102.788 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Tgt Ion: 84 Resp: 326426

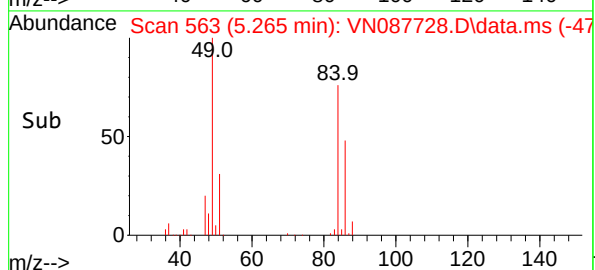
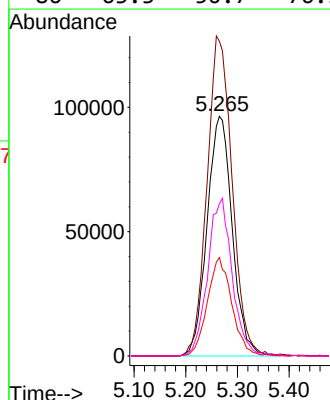
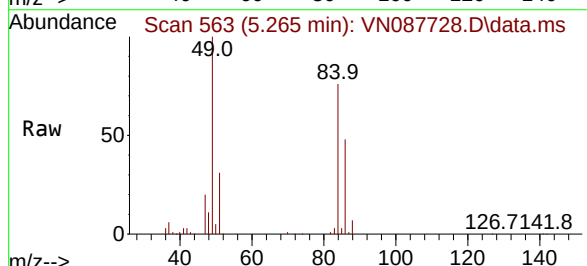
Ion Ratio Lower Upper

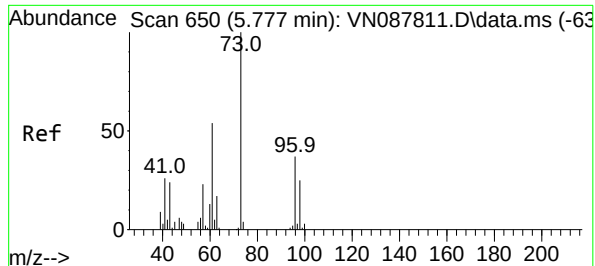
84 100

49 131.3 114.1 171.1

51 41.1 30.2 45.4

86 63.3 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 104.453 ug/l

RT: 5.777 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 30693

Ion Ratio Lower Upper

96 100

61 141.2 106.4 159.6

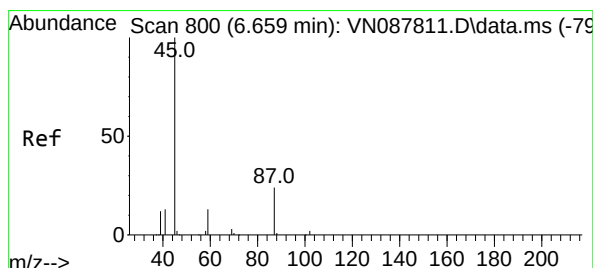
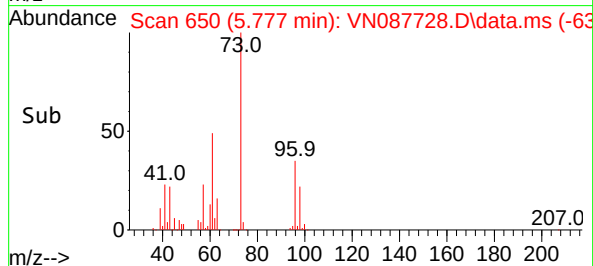
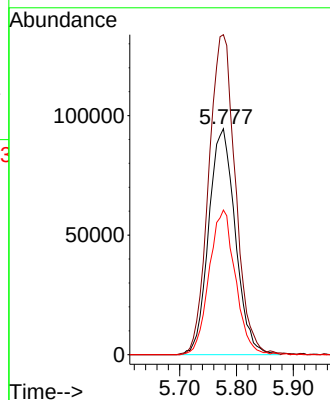
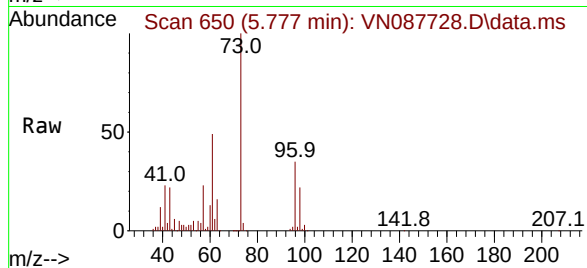
98 64.0 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 101.181 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Tgt Ion: 45 Resp: 1145464

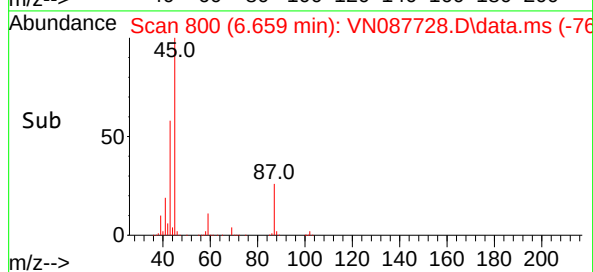
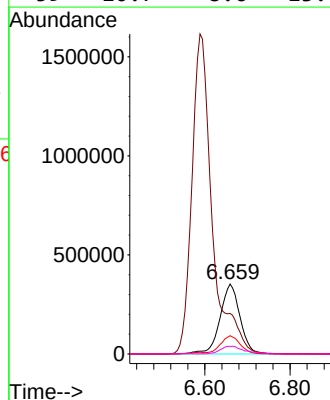
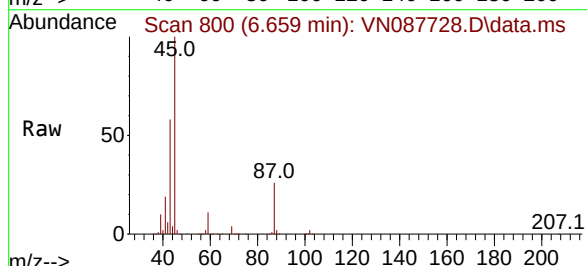
Ion Ratio Lower Upper

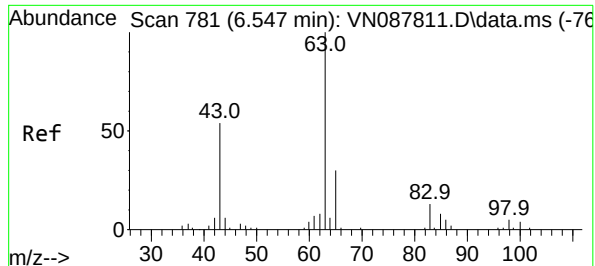
45 100

43 57.3 49.5 74.3

87 26.2 18.8 28.2

59 10.7 8.6 13.0





#21

1,1-Dichloroethane

Concen: 102.873 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 60563

Ion Ratio Lower Upper

63 100

98 6.6 2.9 8.8

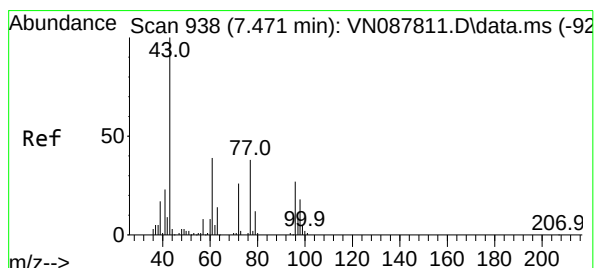
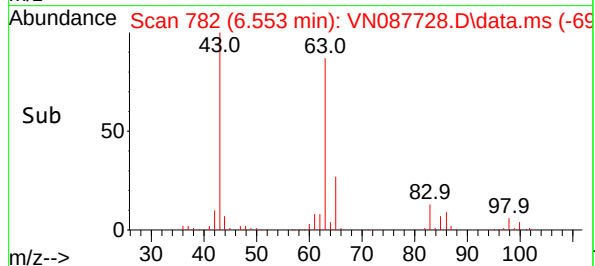
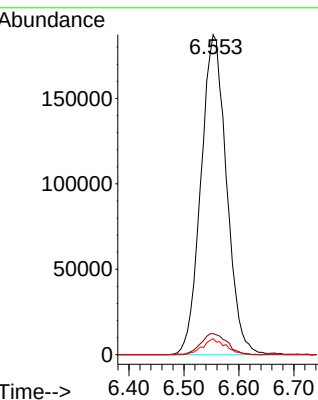
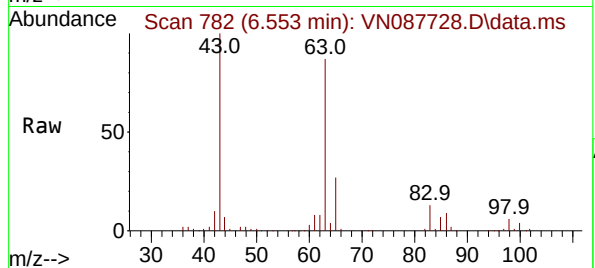
100 5.0 1.8 5.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 102.956 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

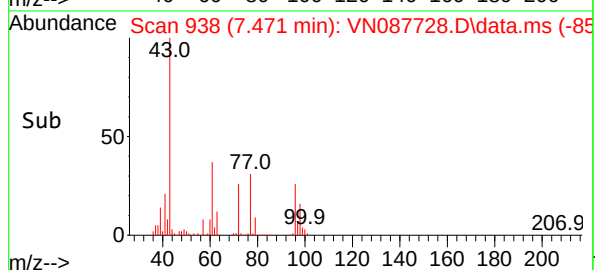
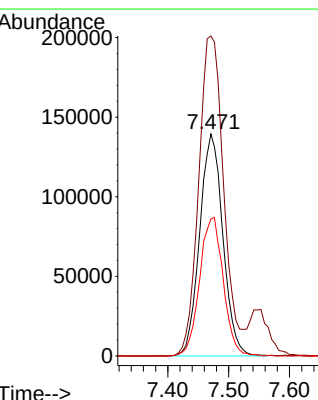
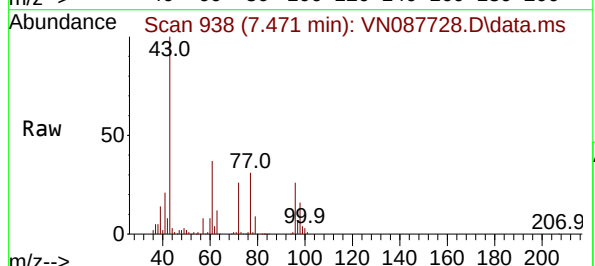
Tgt Ion: 96 Resp: 370129

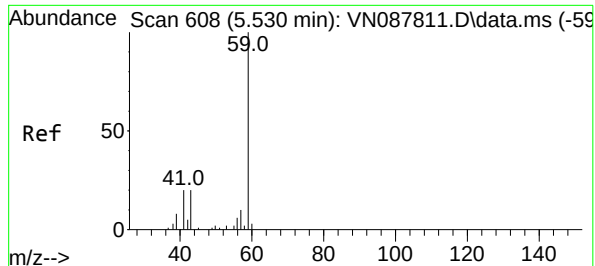
Ion Ratio Lower Upper

96 100

61 154.4 118.2 177.2

98 63.2 51.6 77.4





#23

tert-Butyl Alcohol

Concen: 414.715 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 340210

Ion Ratio Lower Upper

59 100

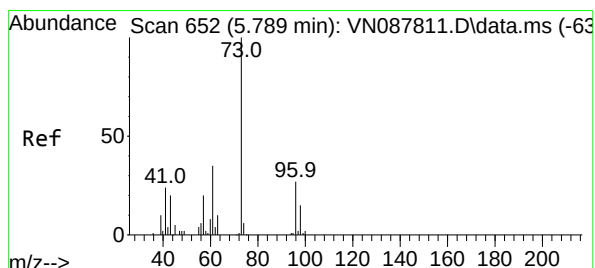
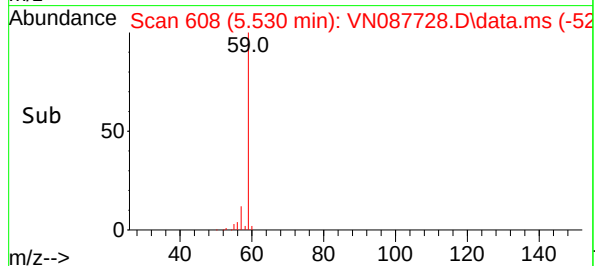
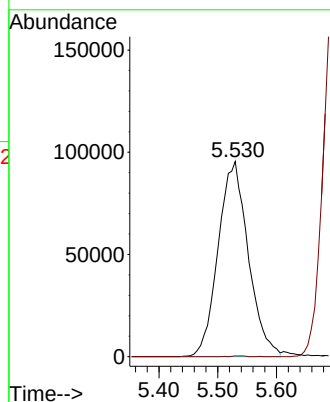
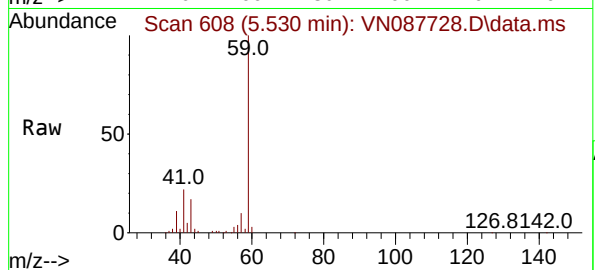
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#24

Methyl tert-Butyl Ether

Concen: 98.657 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087728.D

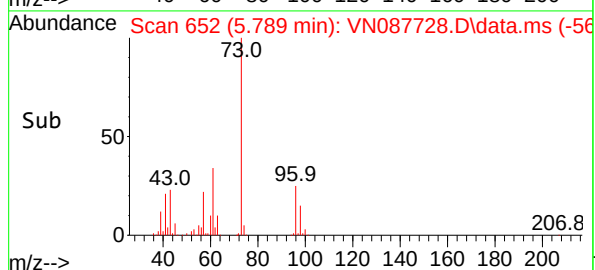
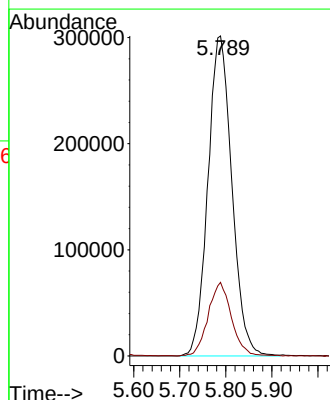
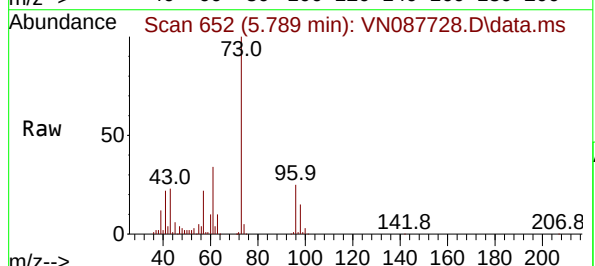
Acq: 04 Sep 2025 17:25

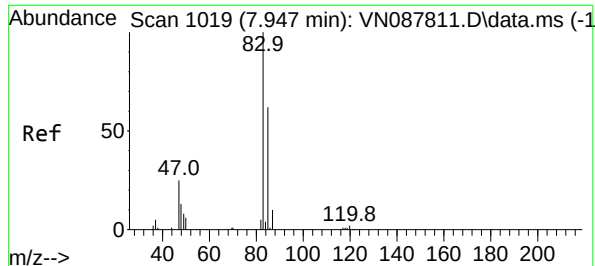
Tgt Ion: 73 Resp: 1088266

Ion Ratio Lower Upper

73 100

43 22.5 16.8 25.2





#25

Chloroform

Concen: 102.023 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 63233

Ion Ratio Lower Upper

83 100

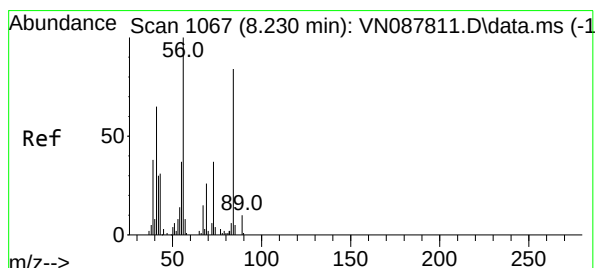
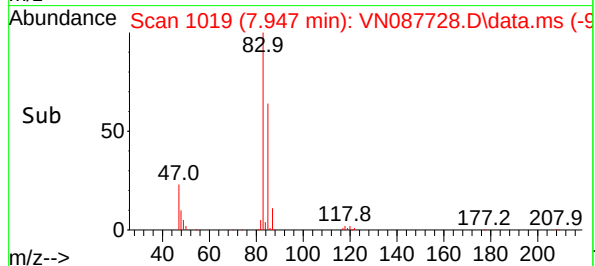
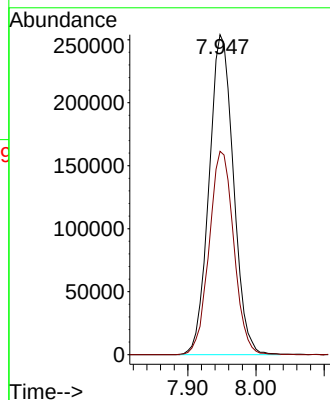
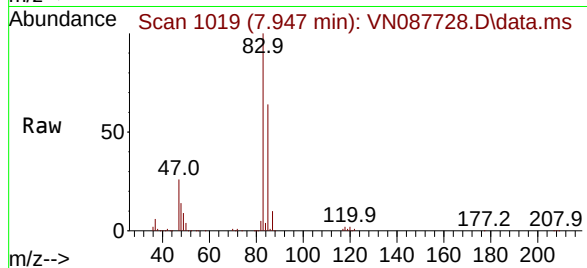
85 63.4 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 101.149 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

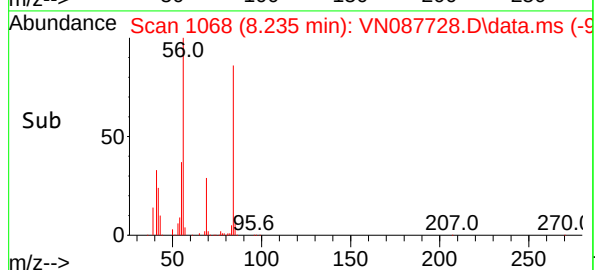
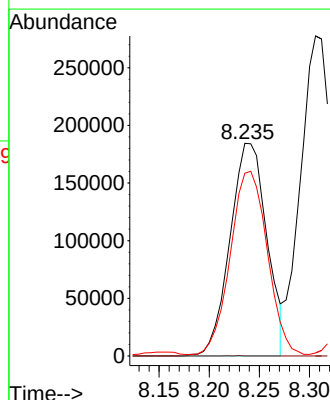
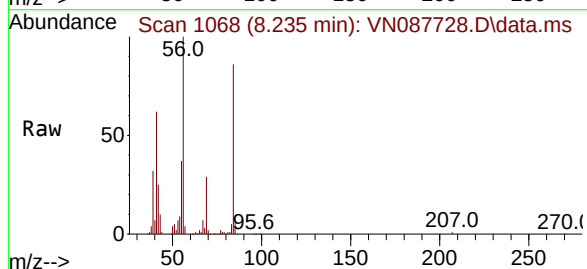
Tgt Ion: 56 Resp: 470916

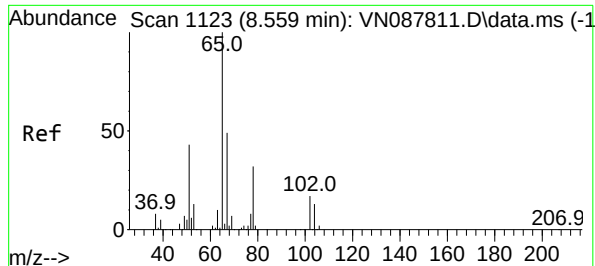
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0#

84 88.1 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 27.758 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087728.D

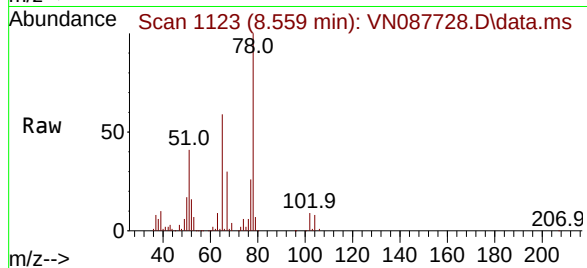
Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100



Tgt Ion: 65 Resp: 11710

Ion Ratio Lower Upper

65 100

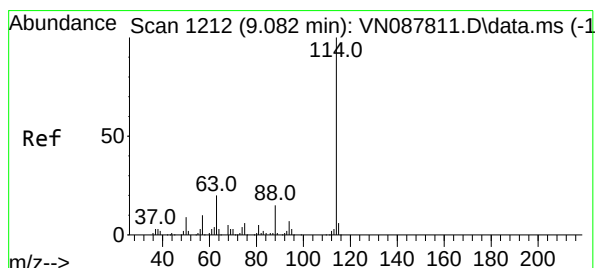
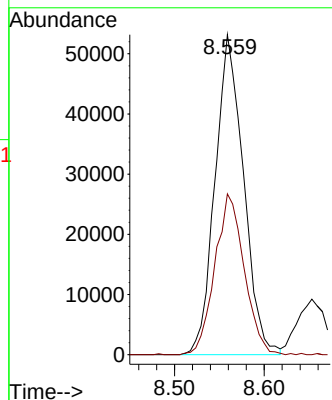
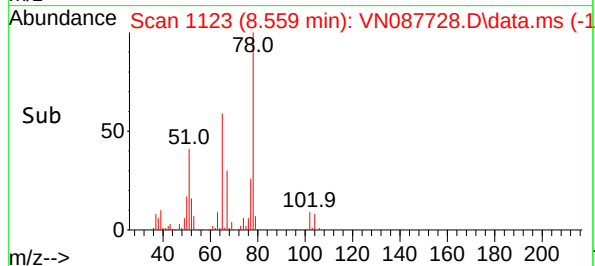
67 51.7 39.6 59.4

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: VN087728.D

Acq: 04 Sep 2025 17:25

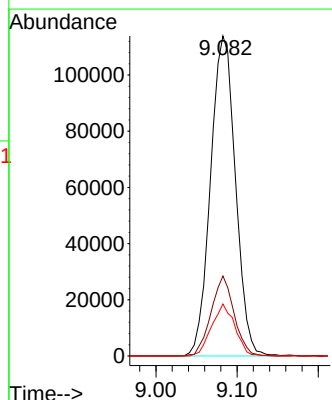
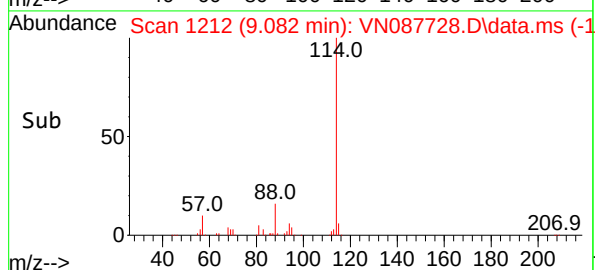
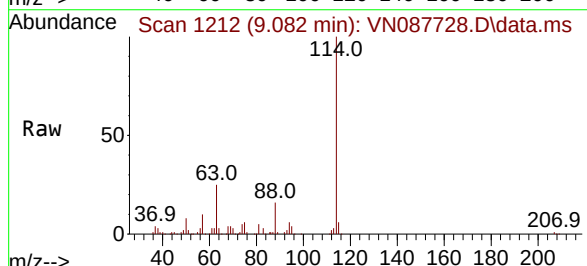
Tgt Ion:114 Resp: 242946

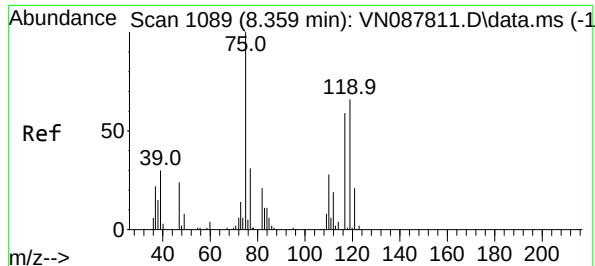
Ion Ratio Lower Upper

114 100

63 23.1 18.3 27.5

88 15.2 12.4 18.6





#29

1,1-Dichloropropene

Concen: 107.353 ug/l

RT: 8.353 min Scan# 110

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

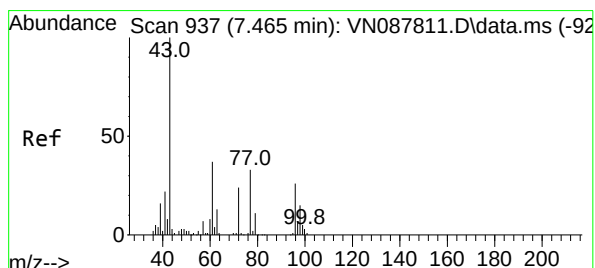
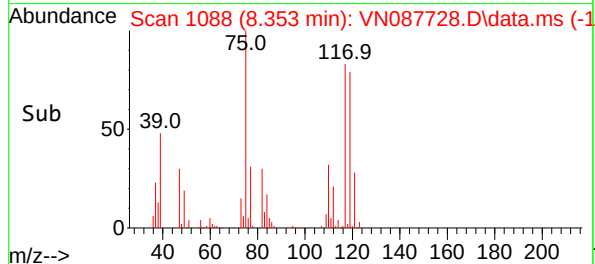
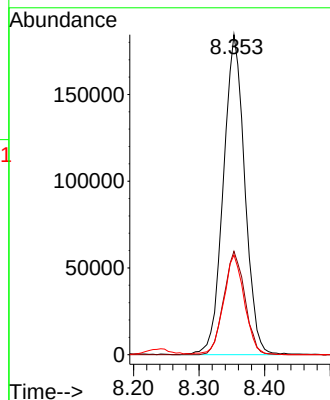
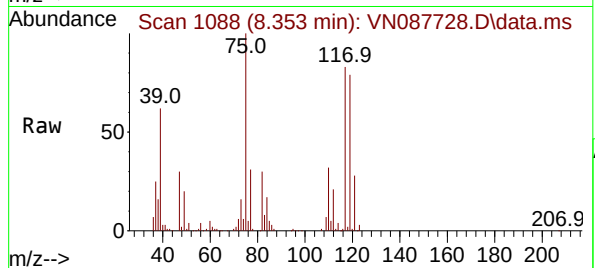
VSTDICC100

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 41804 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 31.7  | 0.0   | 64.4  |
| 77       | 30.1  | 0.0   | 62.2  |

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 499.926 ug/l

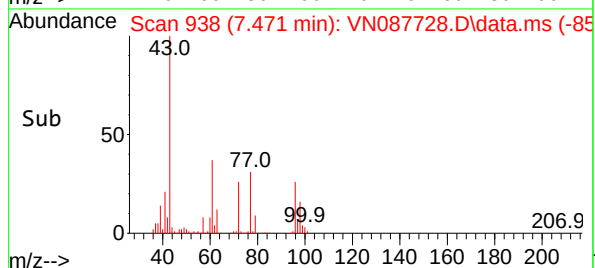
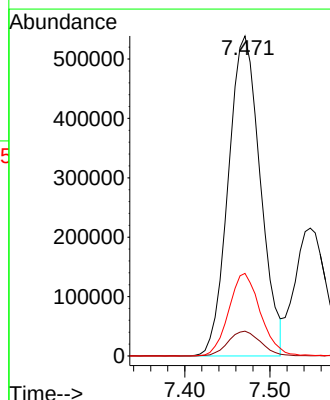
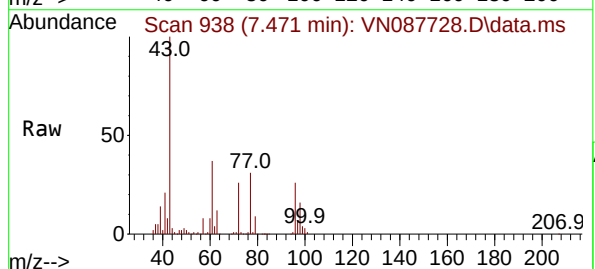
RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

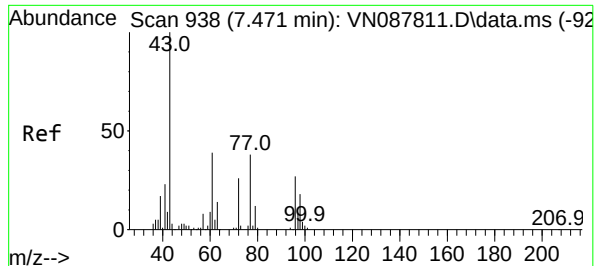
Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 43    | Resp: | 1409990 |
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 57       | 7.9   | 6.3   | 9.5     |
| 72       | 25.5  | 21.4  | 32.2    |







#31

2,2-Dichloropropane

Concen: 102.230 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 77 Resp: 49876

Ion Ratio Lower Upper

77 100

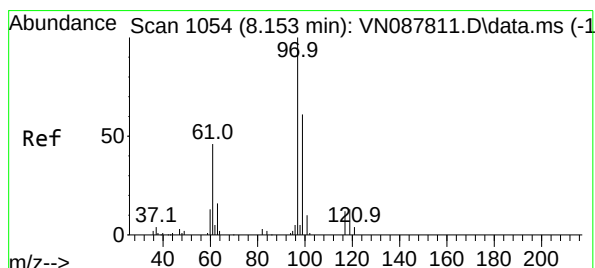
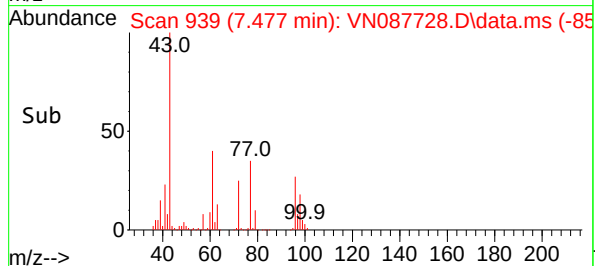
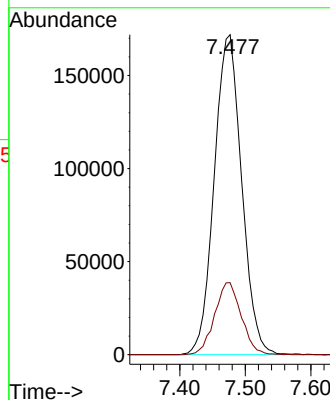
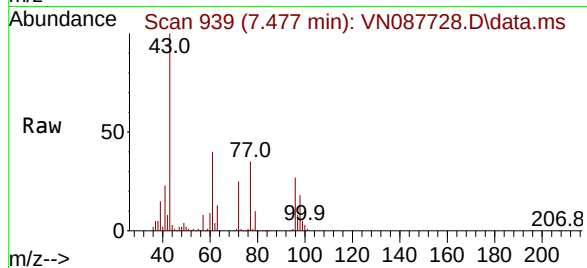
97 21.9 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#32

1,1,1-Trichloroethane

Concen: 104.920 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

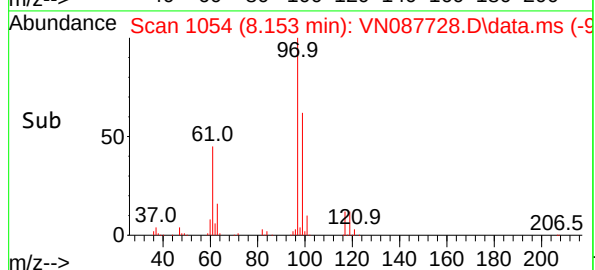
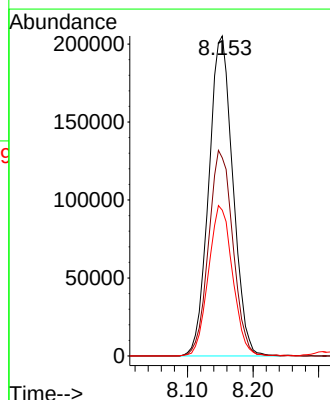
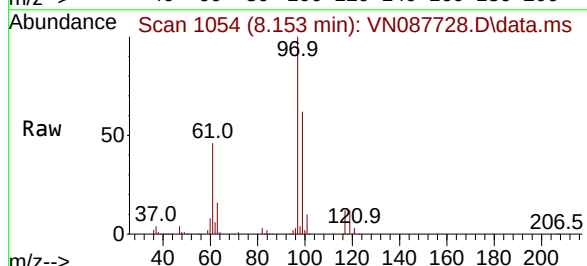
Tgt Ion: 97 Resp: 524015

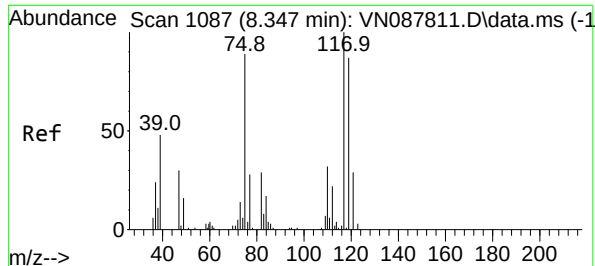
Ion Ratio Lower Upper

97 100

99 64.8 52.2 78.4

61 47.1 37.9 56.9





#33

Carbon Tetrachloride

Concen: 105.102 ug/l

RT: 8.341 min Scan# 1086

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

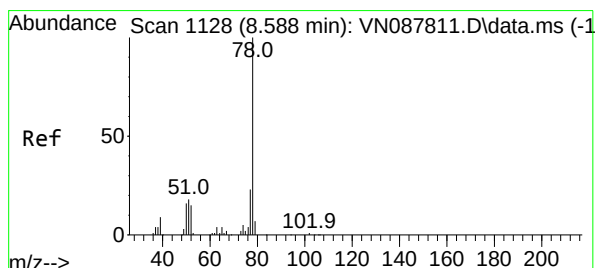
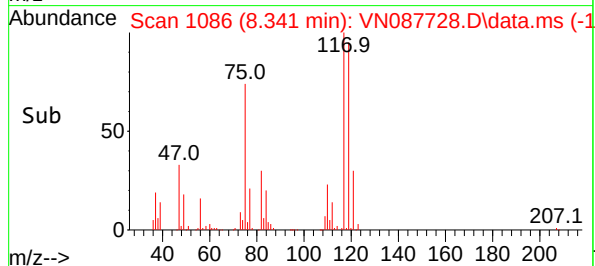
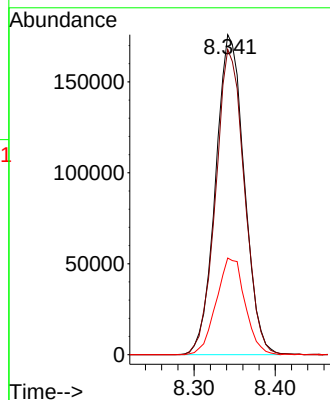
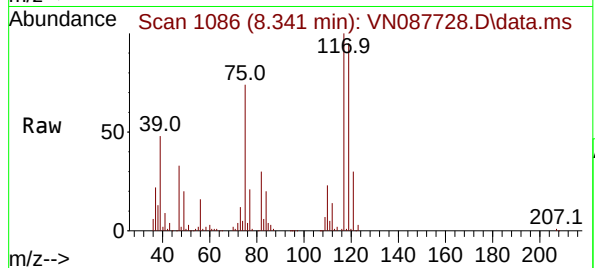
VSTDICC100

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 43197 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 95.3  | 77.3  | 115.9 |
| 121      | 30.2  | 26.6  | 39.8  |

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34

Benzene

Concen: 108.630 ug/l

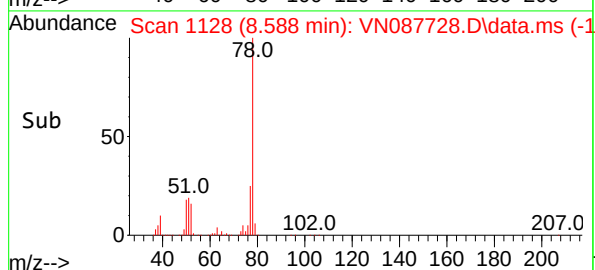
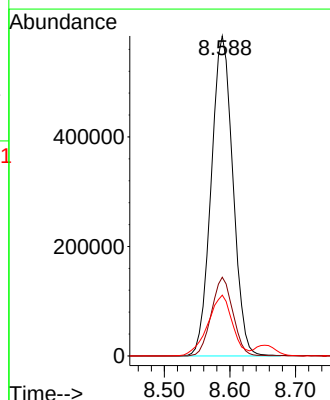
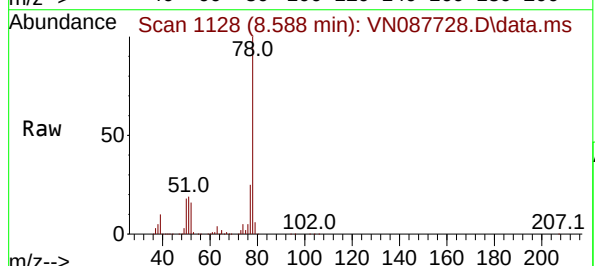
RT: 8.588 min Scan# 1128

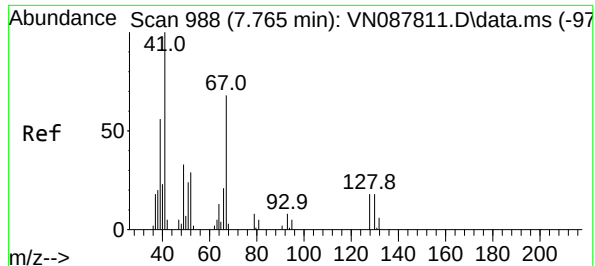
Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 78    | Resp: | 1341472 |
| Ion      | Ratio | Lower | Upper   |
| 78       | 100   |       |         |
| 77       | 24.6  | 20.3  | 30.5    |
| 51       | 18.9  | 18.0  | 27.0    |





#35

Methacrylonitrile

Concen: 99.759 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 30564

Ion Ratio Lower Upper

41 100

39 57.0 27.1 81.2

67 67.2 32.1 96.5

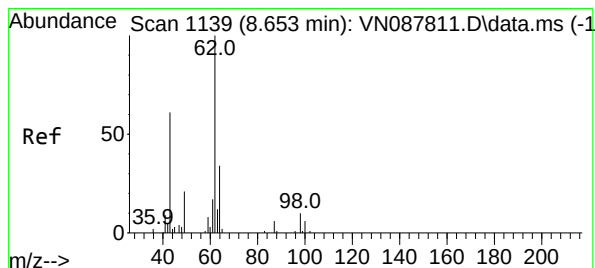
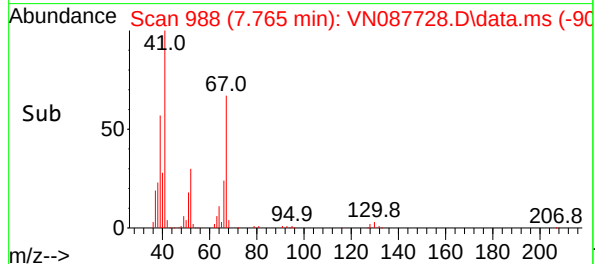
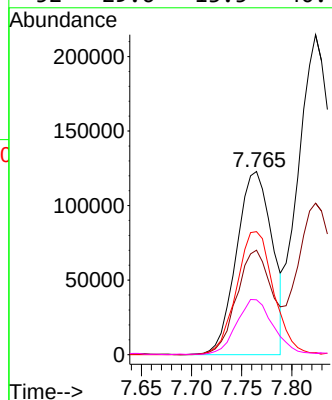
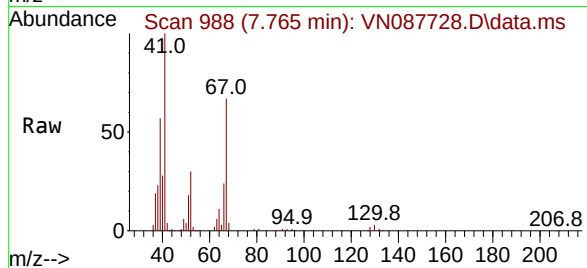
52 29.6 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 101.728 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087728.D

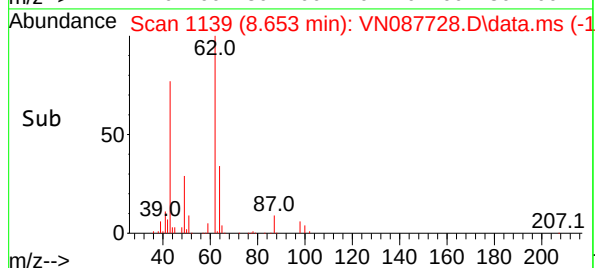
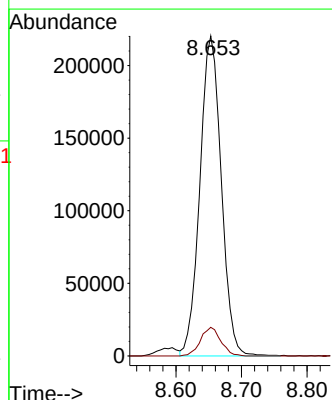
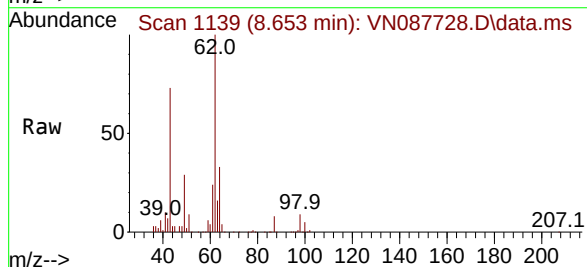
Acq: 04 Sep 2025 17:25

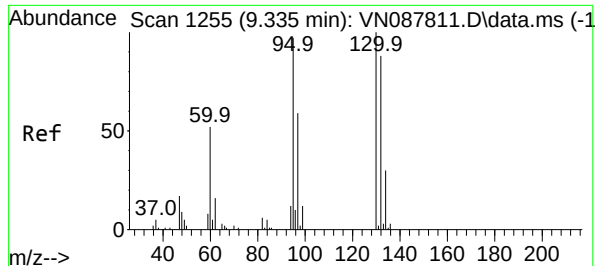
Tgt Ion: 62 Resp: 500793

Ion Ratio Lower Upper

62 100

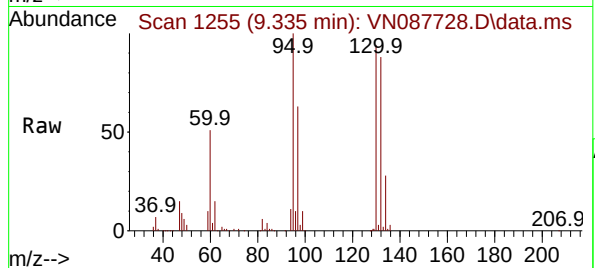
98 8.5 7.2 10.8





#37  
Trichloroethene  
Concen: 109.044 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

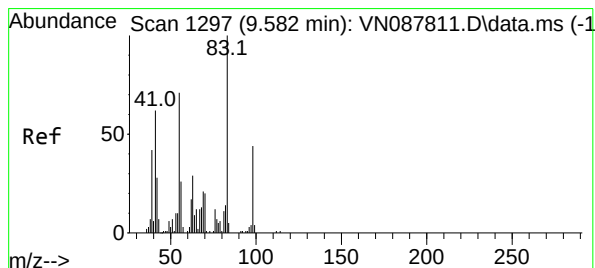
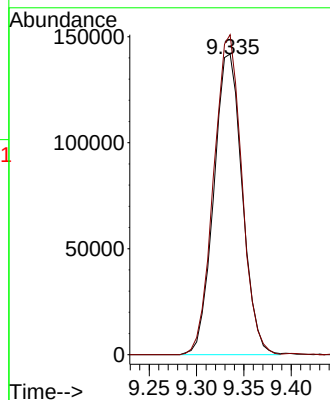
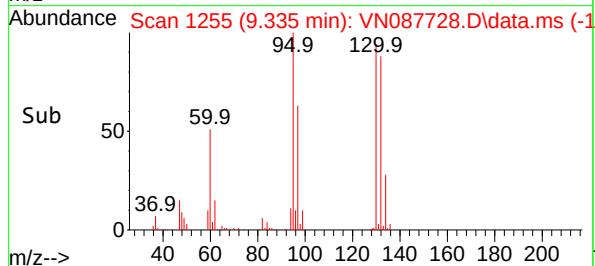
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:130 Resp: 296540  
Ion Ratio Lower Upper  
130 100  
95 106.5 82.7 124.1

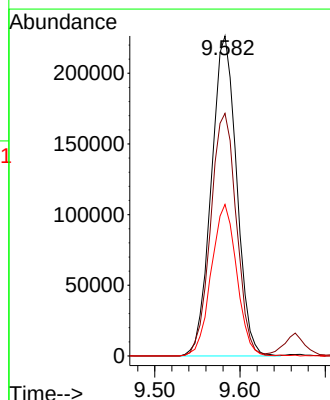
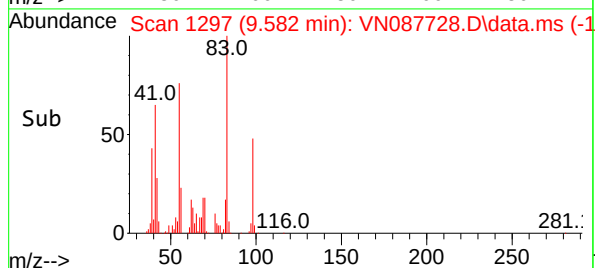
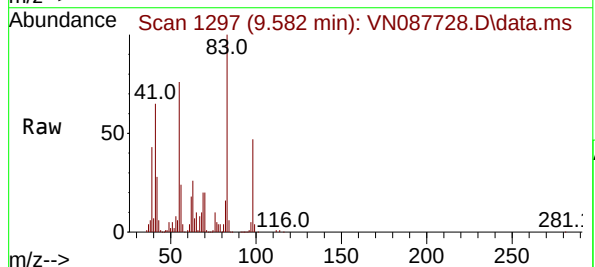
Manual Integrations  
APPROVED

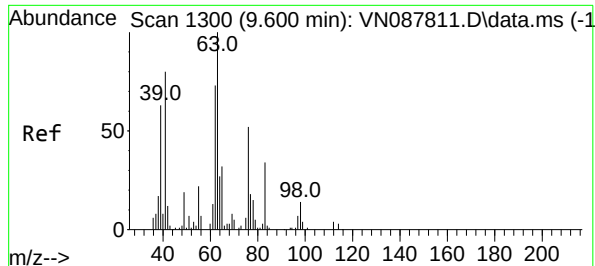
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#38  
Methylcyclohexane  
Concen: 104.964 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 83 Resp: 466295  
Ion Ratio Lower Upper  
83 100  
55 77.2 40.4 121.1  
98 47.6 24.0 72.0





#39

1,2-Dichloropropane

Concen: 109.431 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 34631

Ion Ratio Lower Upper

63 100

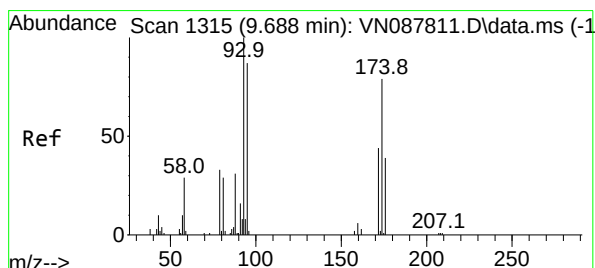
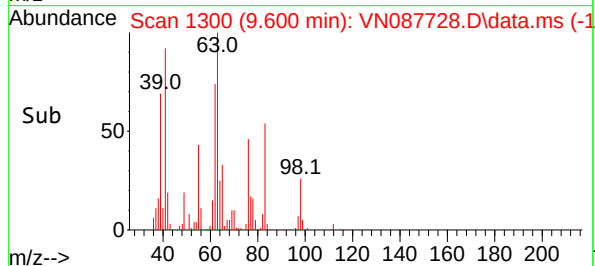
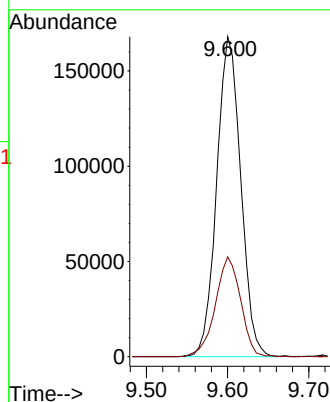
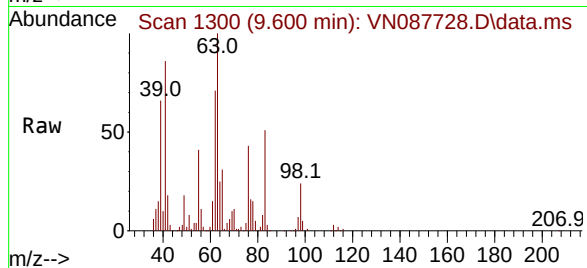
65 31.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 107.958 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

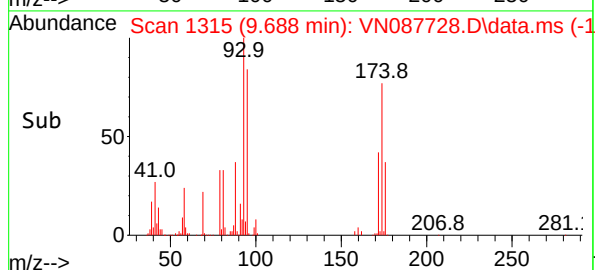
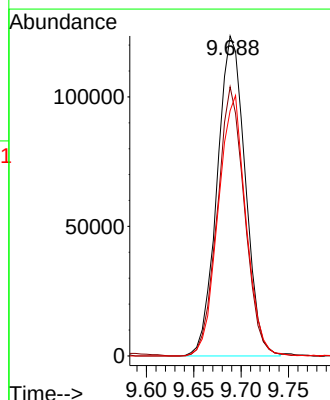
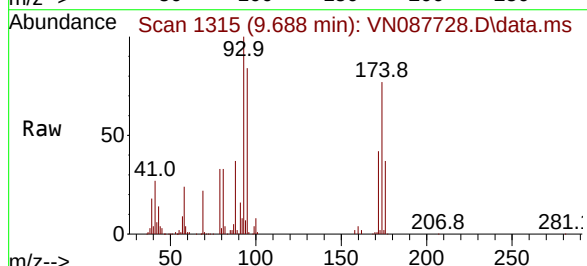
Tgt Ion: 93 Resp: 255456

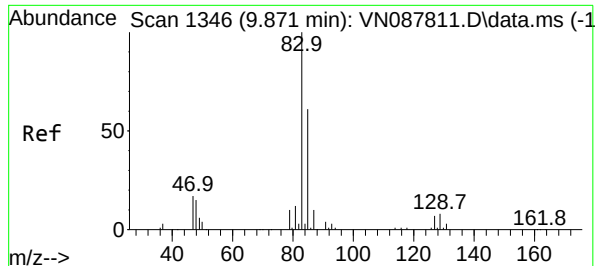
Ion Ratio Lower Upper

93 100

95 81.3 0.0 168.4

174 80.0 0.0 162.8





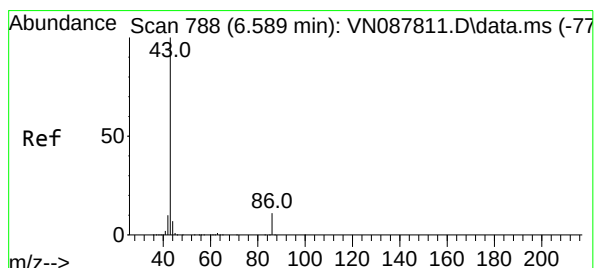
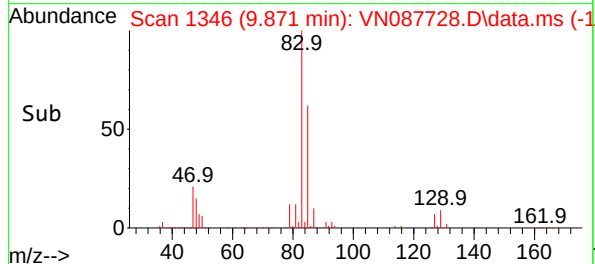
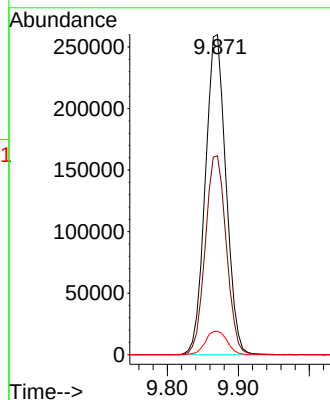
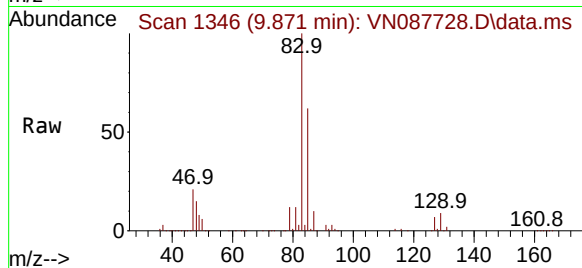
#41  
Bromodichloromethane  
Concen: 106.078 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 83 Resp: 52417  
Ion Ratio Lower Upper  
83 100  
85 62.1 47.3 70.9  
127 7.4 5.2 7.8

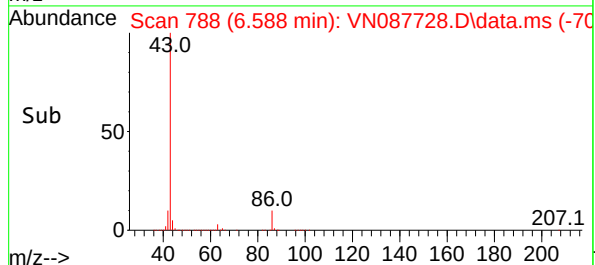
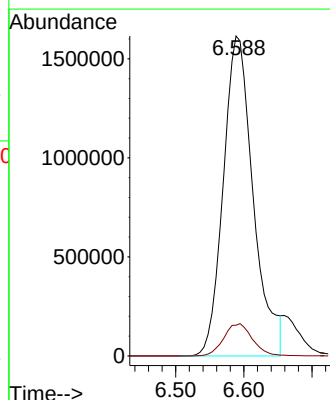
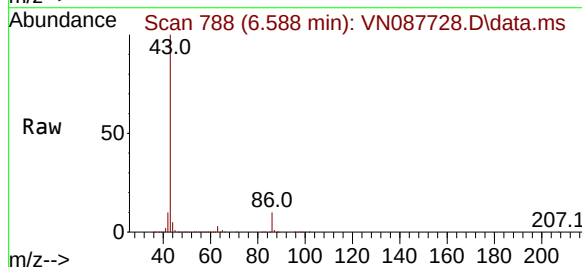
Manual Integrations  
APPROVED

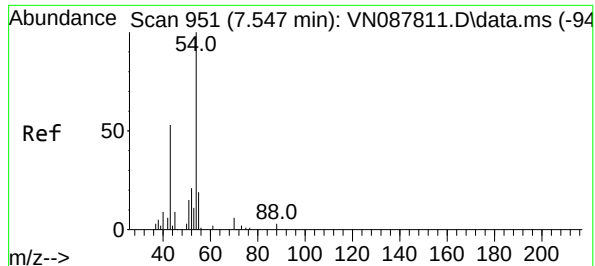
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 532.259 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 43 Resp: 4938740  
Ion Ratio Lower Upper  
43 100  
86 9.7 7.7 11.5





#43

Ethyl Acetate

Concen: 102.596 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 57026

Ion Ratio Lower Upper

43 100

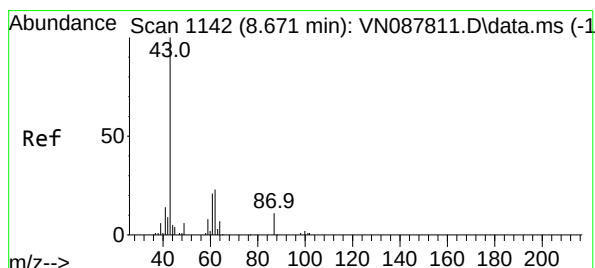
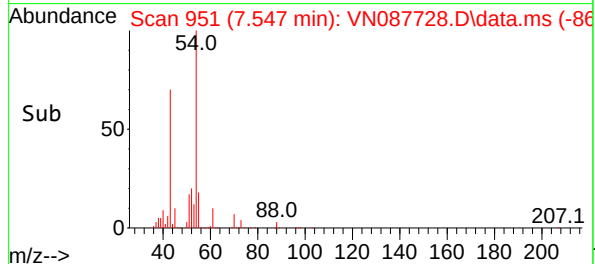
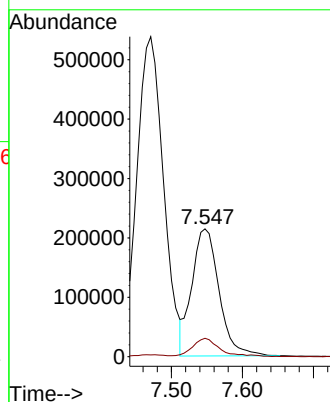
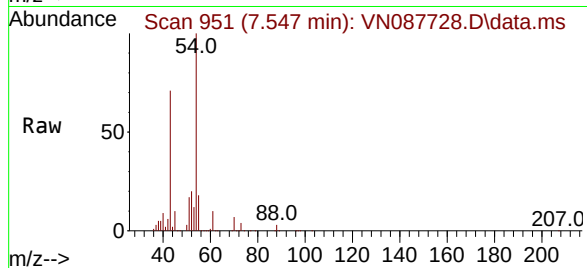
45 12.5 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 102.889 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087728.D

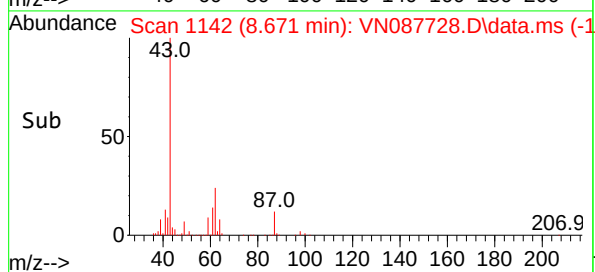
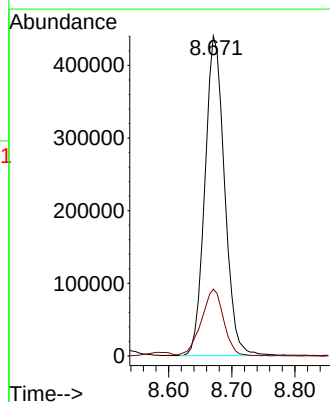
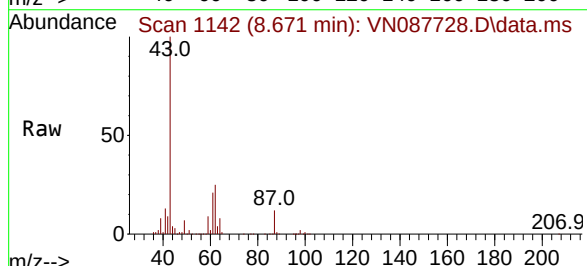
Acq: 04 Sep 2025 17:25

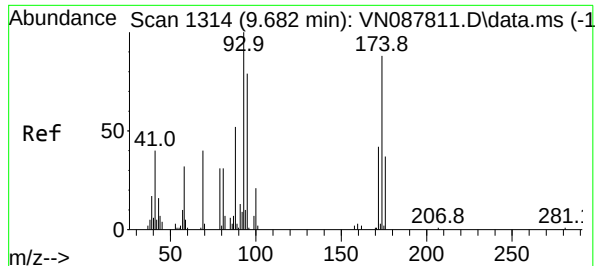
Tgt Ion: 43 Resp: 951384

Ion Ratio Lower Upper

43 100

61 23.8 19.5 29.3





#45

1,4-Dioxane

Concen: 1961.964 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 11614

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4

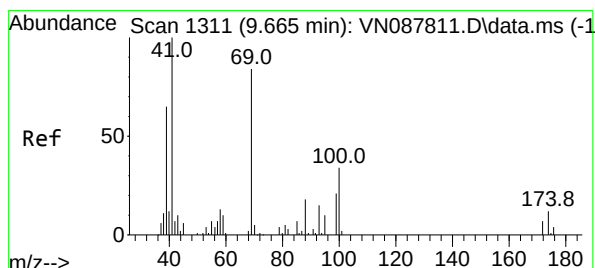
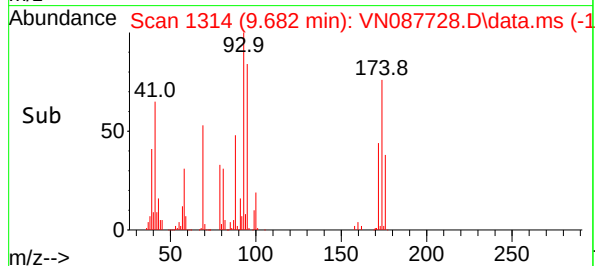
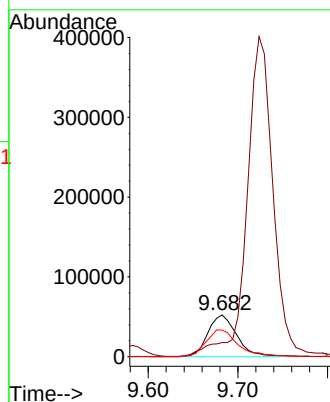
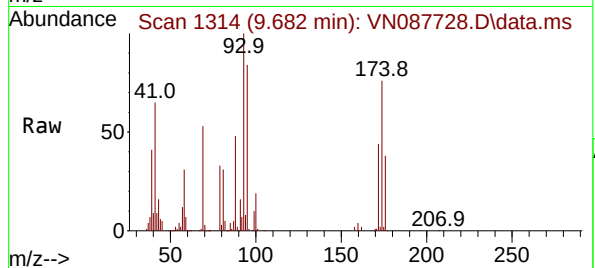
58 71.7 60.5 90.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 101.703 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

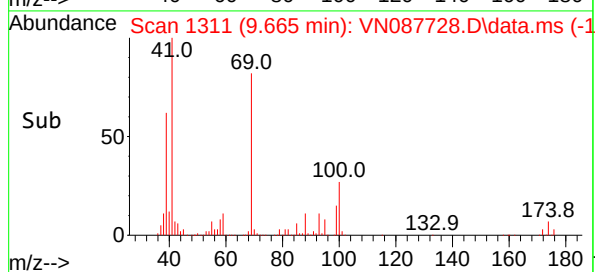
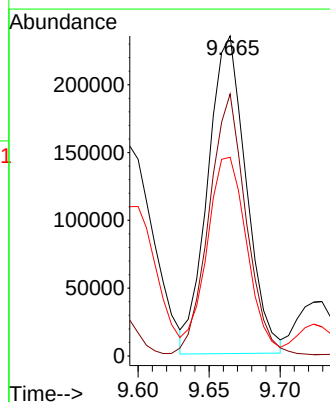
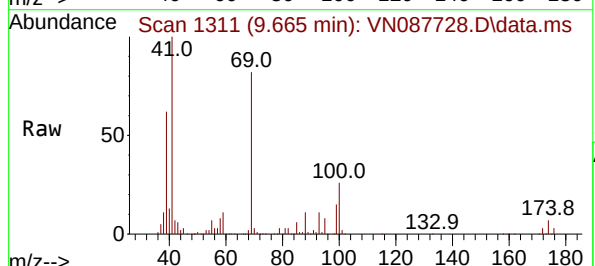
Tgt Ion: 41 Resp: 440189

Ion Ratio Lower Upper

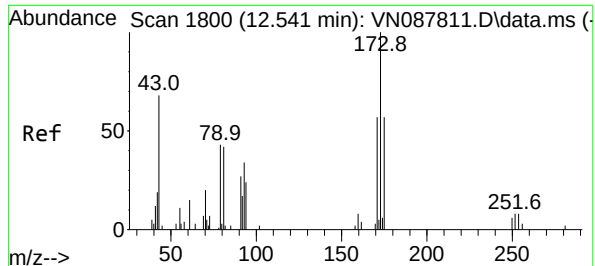
41 100

69 83.6 40.3 120.9

39 62.5 31.9 95.9







#47

n-amy1 Acetate

Concen: 119.074 ug/l m

RT: 12.488 min Scan# 1

Delta R.T. -0.183 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 640178

Ion Ratio Lower Upper

43 100

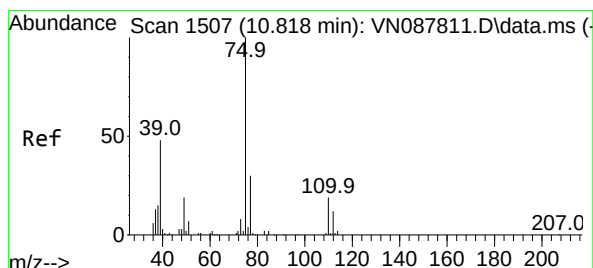
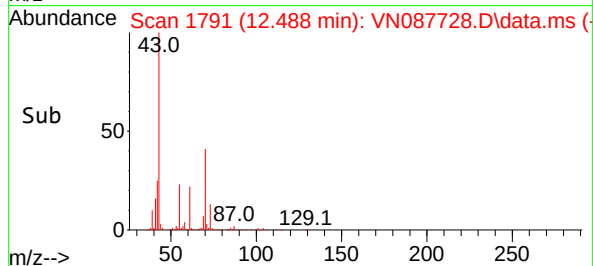
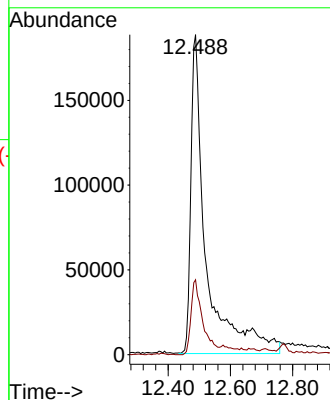
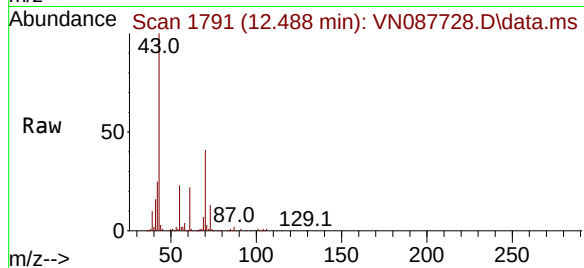
55 0.1 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 106.986 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087728.D

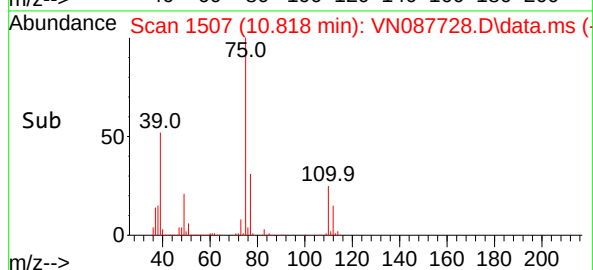
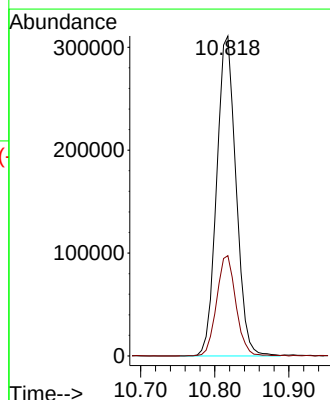
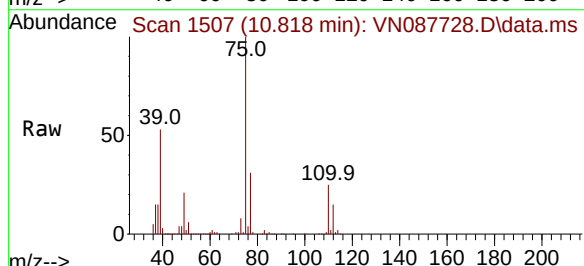
Acq: 04 Sep 2025 17:25

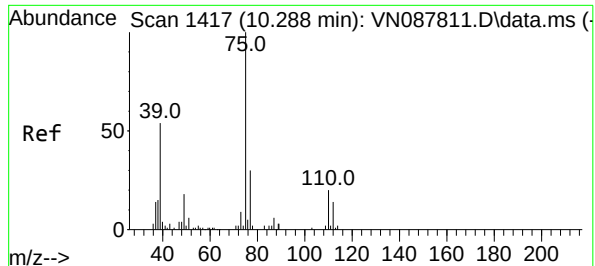
Tgt Ion: 75 Resp: 563552

Ion Ratio Lower Upper

75 100

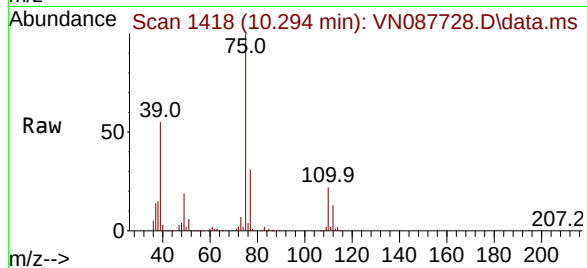
77 31.3 24.7 37.1





#49  
cis-1,3-Dichloropropene  
Concen: 108.492 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

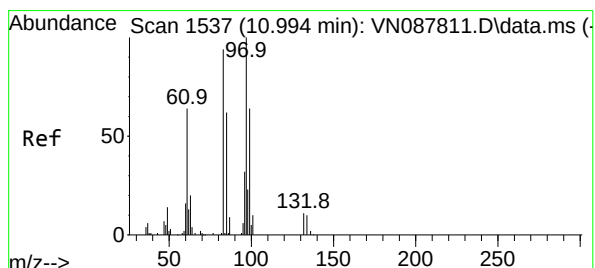
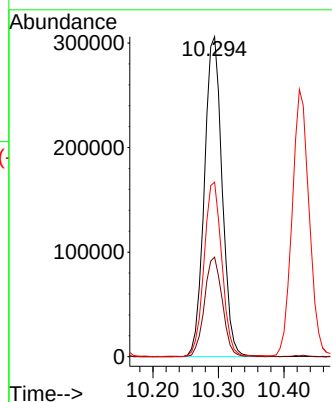
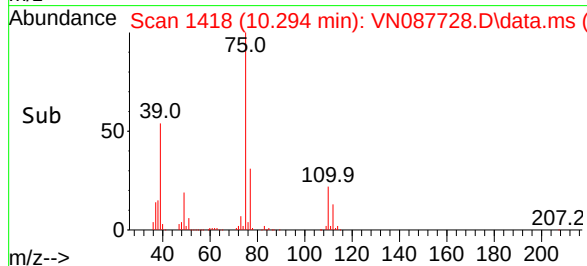
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 75 Resp: 57677  
Ion Ratio Lower Upper  
75 100  
77 31.0 27.8 41.6  
39 54.5 47.6 71.4

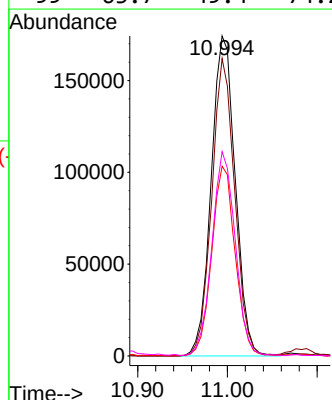
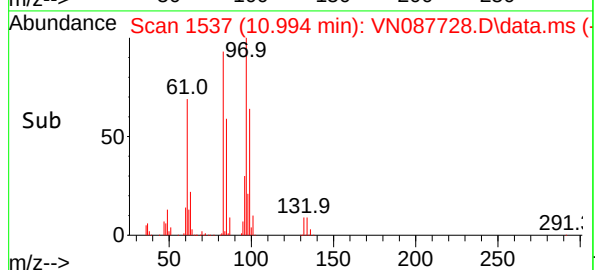
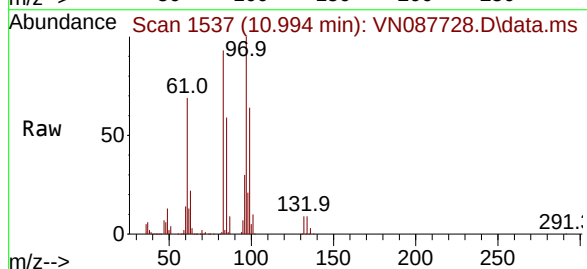
Manual Integrations  
APPROVED

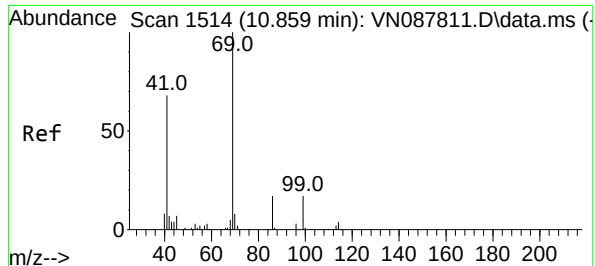
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#50  
1,1,2-Trichloroethane  
Concen: 108.095 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 97 Resp: 324897  
Ion Ratio Lower Upper  
97 100  
83 92.9 70.5 105.7  
85 59.1 46.3 69.5  
99 63.7 49.4 74.2





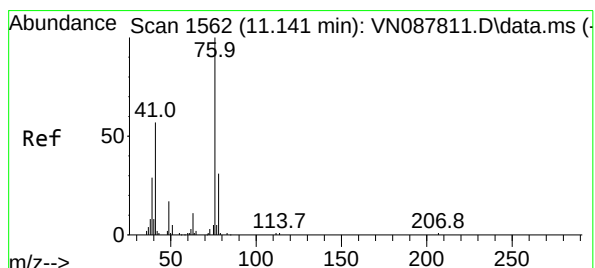
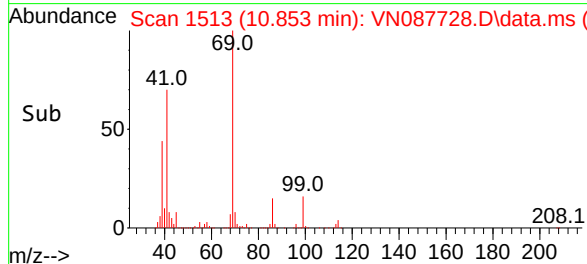
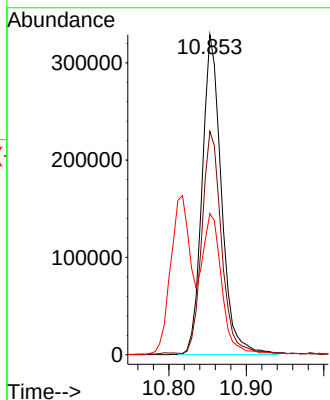
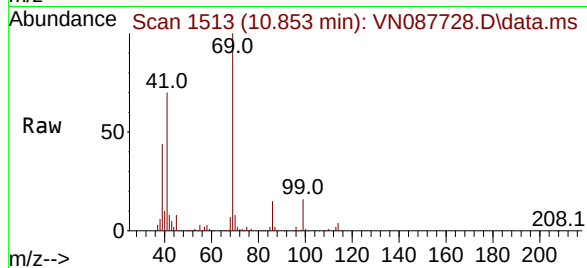
#51  
Ethyl methacrylate  
Concen: 111.057 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 69 Resp: 569562  
Ion Ratio Lower Upper  
69 100  
41 69.4 33.7 101.0  
39 43.8 20.3 60.9

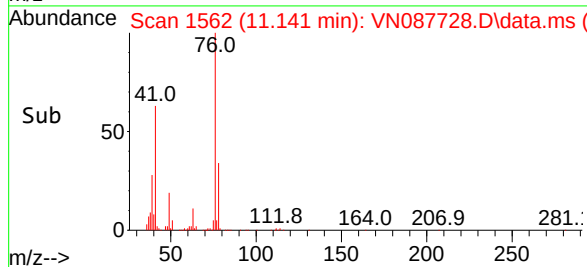
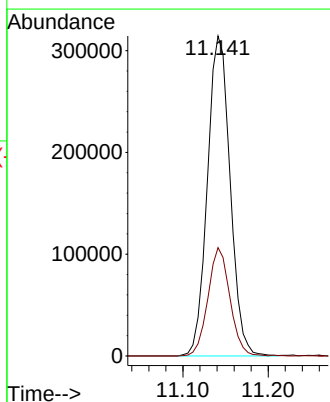
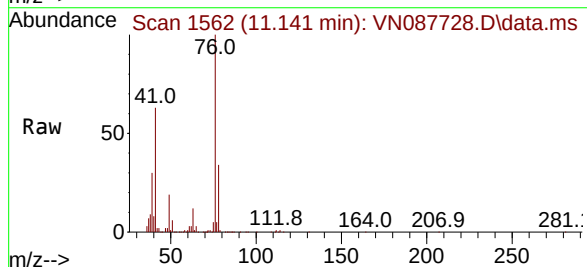
Manual Integrations  
APPROVED

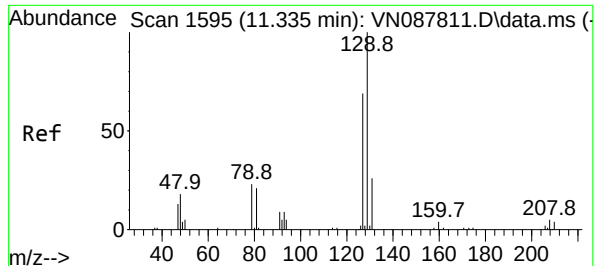
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 108.009 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

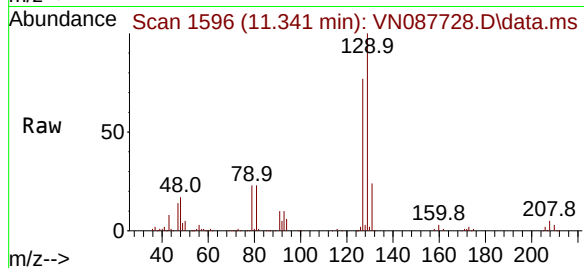
Tgt Ion: 76 Resp: 582005  
Ion Ratio Lower Upper  
76 100  
78 32.7 0.0 65.2





#53  
Dibromochloromethane  
Concen: 110.707 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

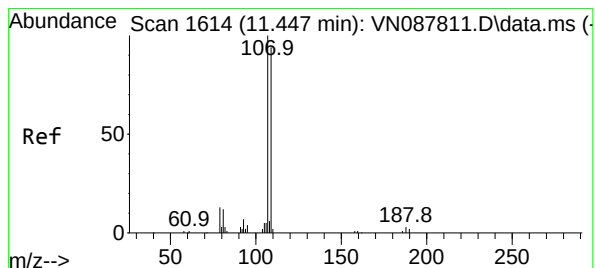
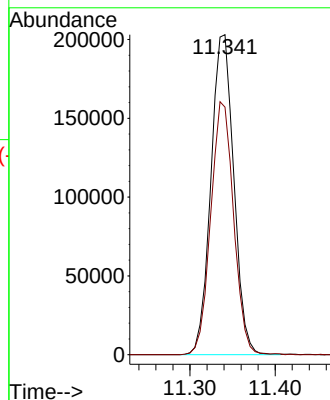
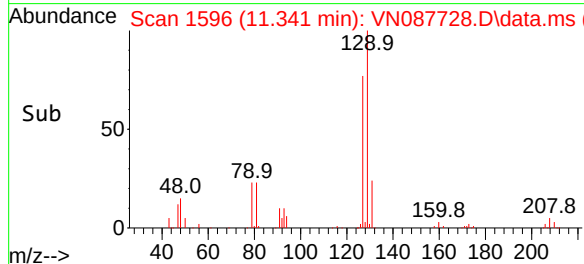
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:129 Resp: 37876  
Ion Ratio Lower Upper  
129 100  
127 78.8 42.6 128.0

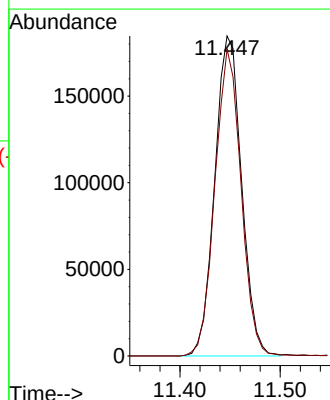
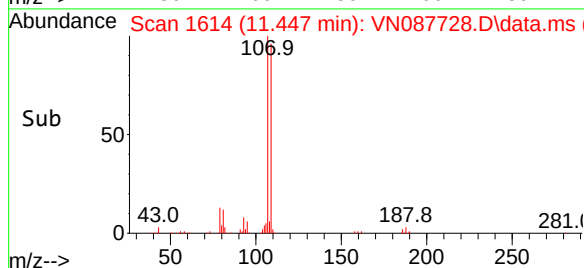
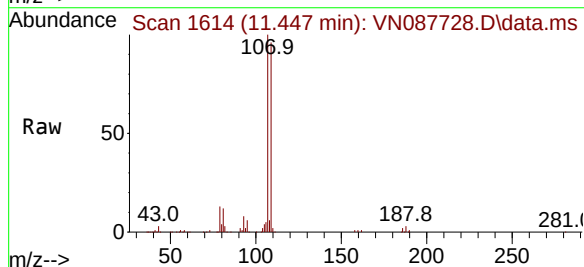
Manual Integrations  
APPROVED

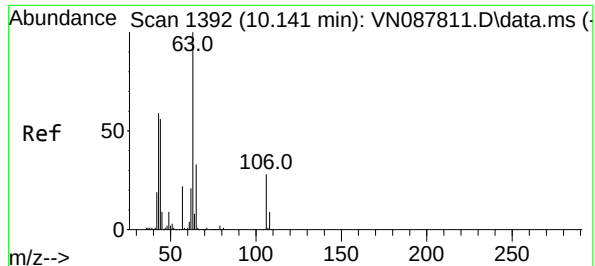
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#54  
1,2-Dibromoethane  
Concen: 108.245 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

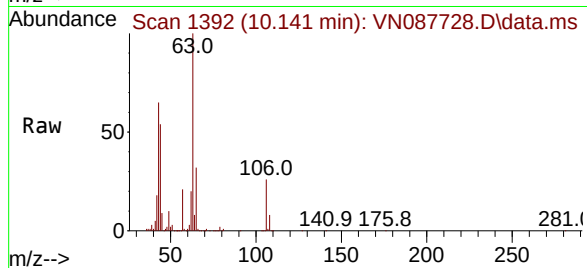
Tgt Ion:107 Resp: 342831  
Ion Ratio Lower Upper  
107 100  
109 93.4 74.6 112.0





#55  
2-Chloroethyl vinyl ether  
Concen: 551.521 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

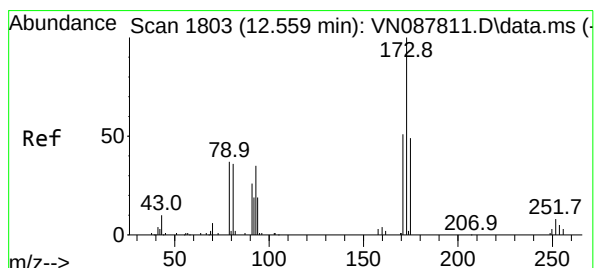
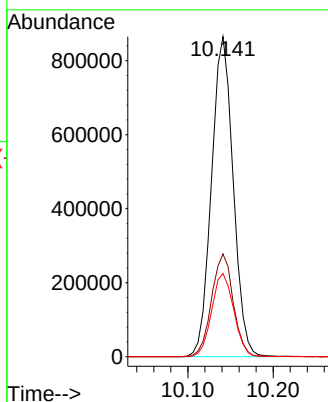
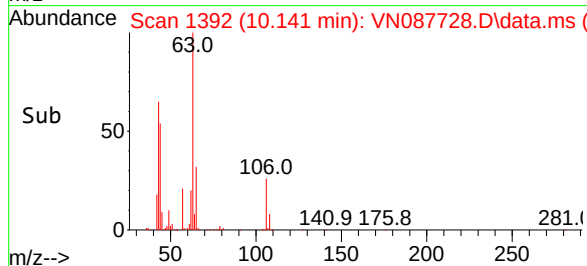
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 63 Resp: 1528234  
Ion Ratio Lower Upper  
63 100  
65 32.1 26.6 40.0  
106 26.5 21.1 31.7

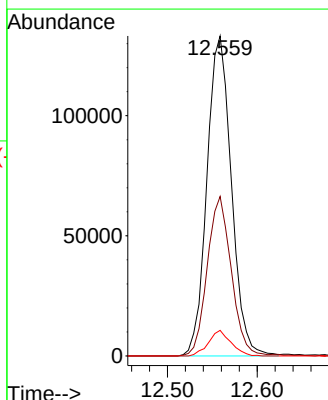
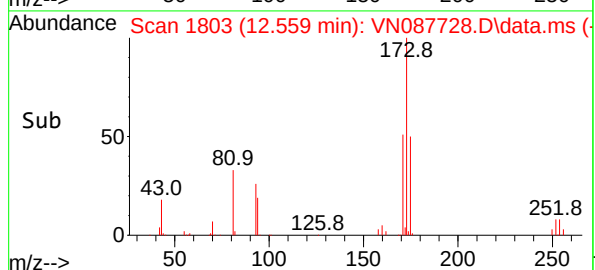
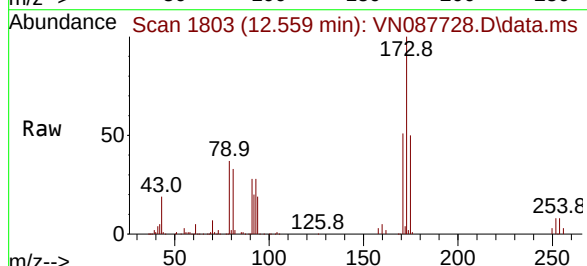
Manual Integrations  
APPROVED

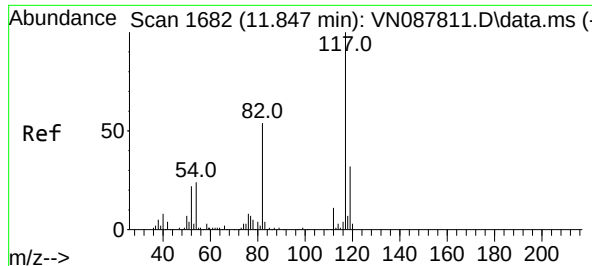
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 111.308 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion:173 Resp: 252313  
Ion Ratio Lower Upper  
173 100  
175 48.8 39.8 59.6  
254 7.4 6.2 9.4





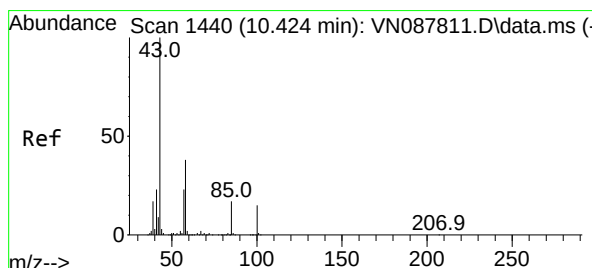
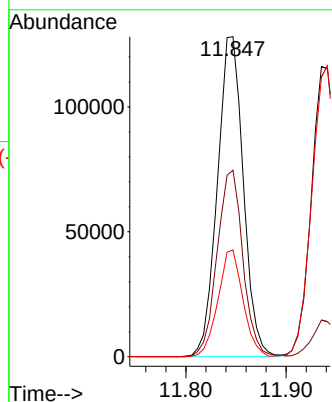
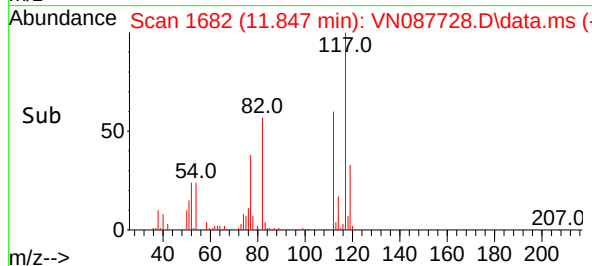
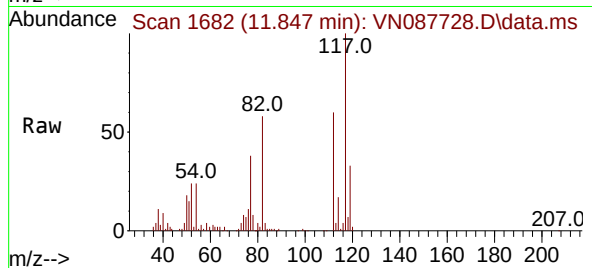
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 11847  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:117 Resp: 230623  
Ion Ratio Lower Upper  
117 100  
82 57.9 45.9 68.9  
119 32.2 25.3 37.9

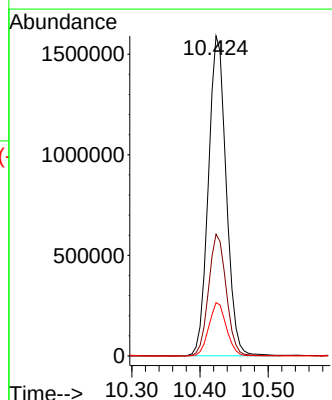
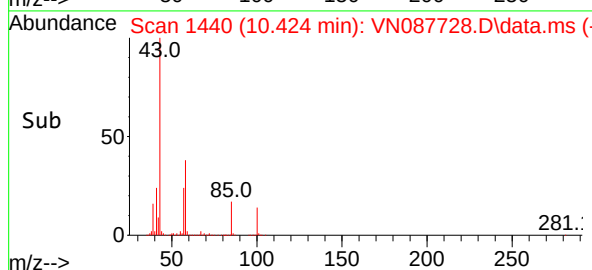
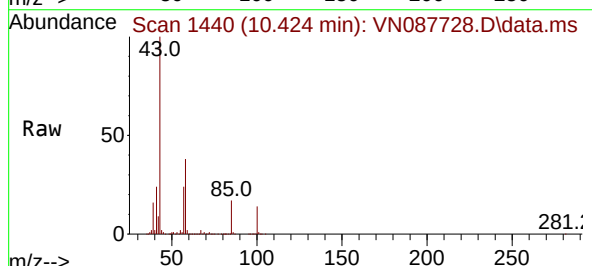
Manual Integrations  
APPROVED

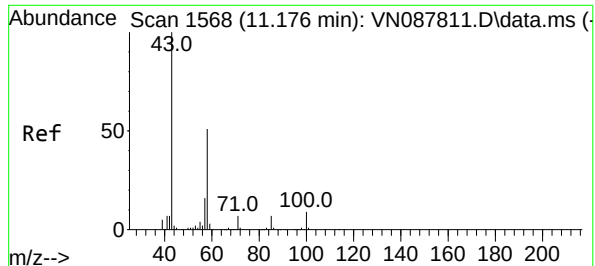
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 507.772 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 43 Resp: 2897553  
Ion Ratio Lower Upper  
43 100  
58 37.8 29.6 44.4  
85 16.5 13.0 19.4





#59

2-Hexanone

Concen: 530.247 ug/l

RT: 11.176 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 204916

Ion Ratio Lower Upper

43 100

58 52.6 40.2 60.4

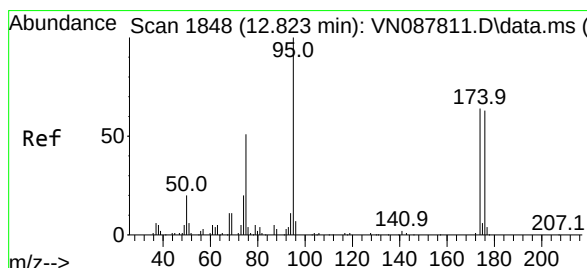
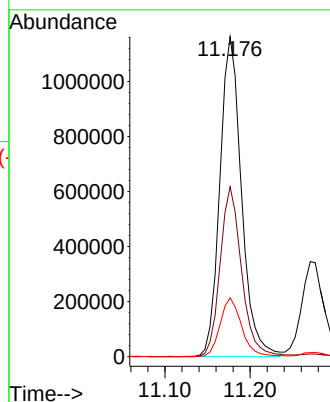
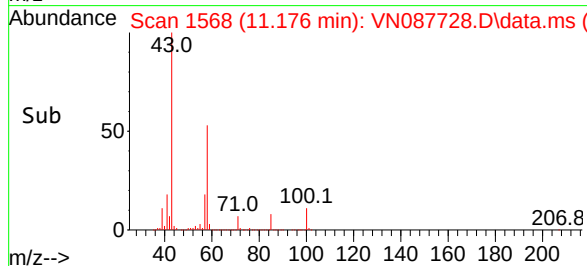
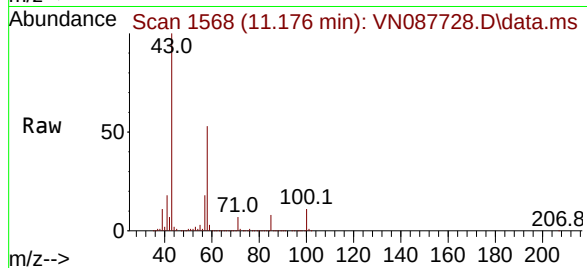
57 18.3 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#60

4-Bromofluorobenzene

Concen: 29.459 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

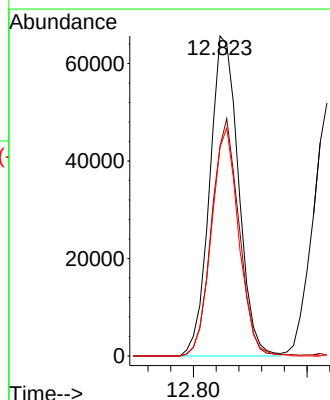
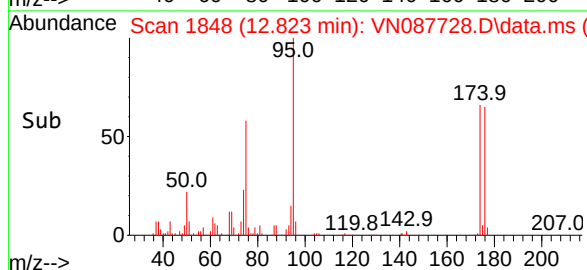
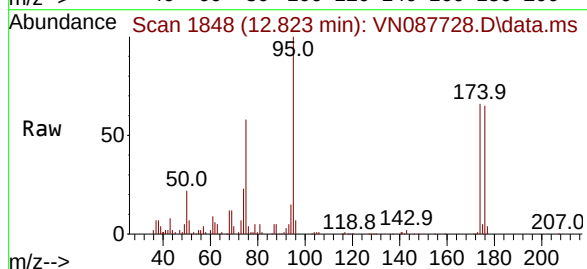
Tgt Ion: 95 Resp: 115538

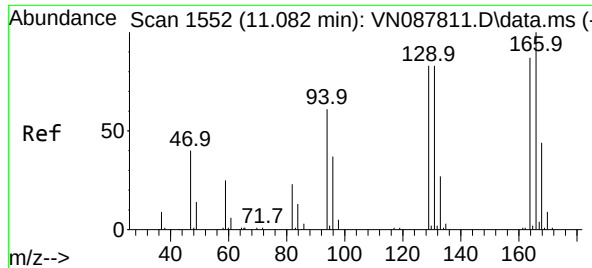
Ion Ratio Lower Upper

95 100

174 70.2 55.4 83.0

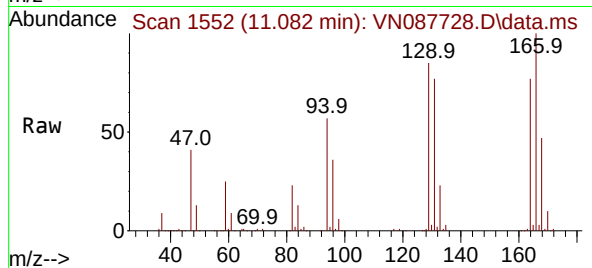
176 67.8 51.5 77.3





#61  
Tetrachloroethene  
Concen: 105.508 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

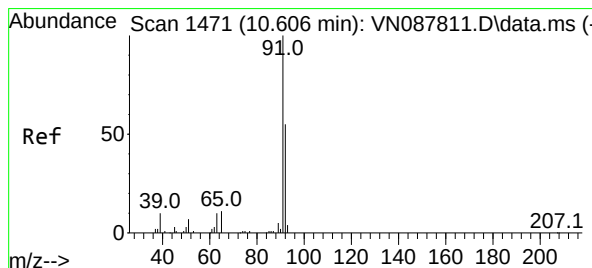
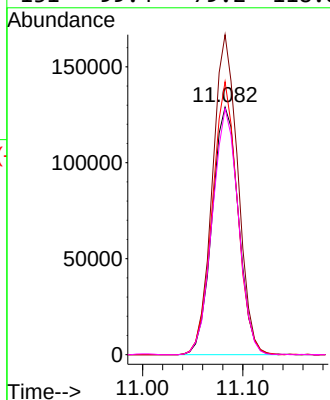
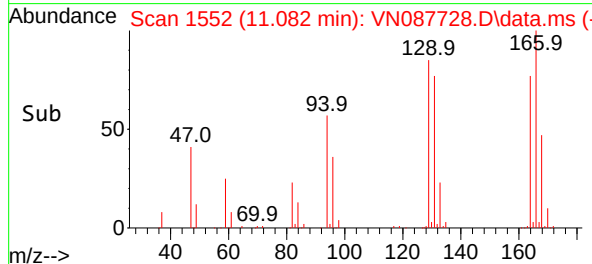
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



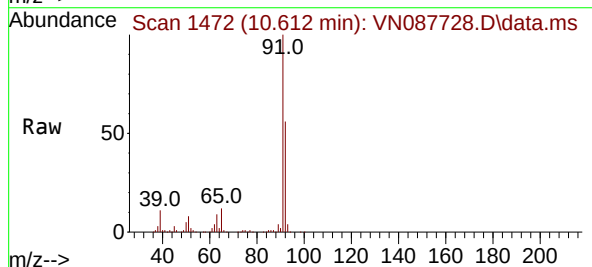
Tgt Ion:164 Resp: 234889  
Ion Ratio Lower Upper  
164 100  
166 129.3 97.3 145.9  
129 110.3 78.6 117.8  
131 99.4 79.2 118.8

Manual Integrations  
APPROVED

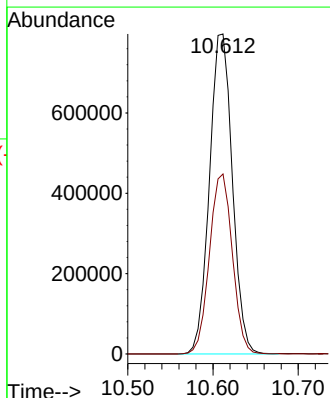
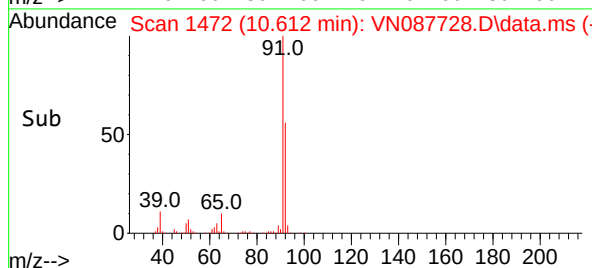
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



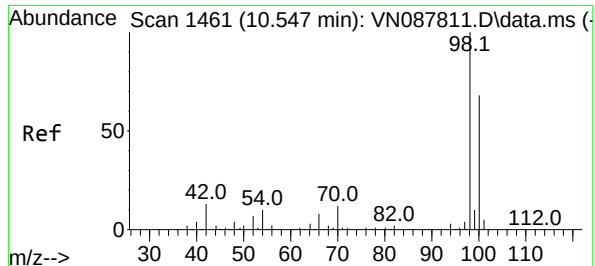
#62  
Toluene  
Concen: 107.196 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25



Tgt Ion: 91 Resp: 1487570  
Ion Ratio Lower Upper  
91 100  
92 56.3 45.4 68.0







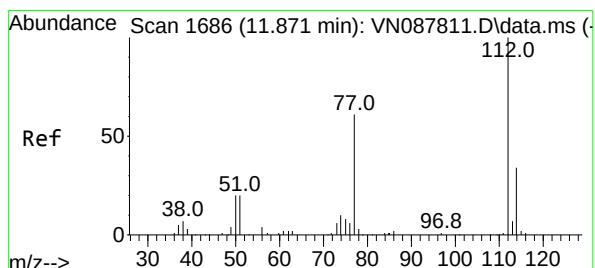
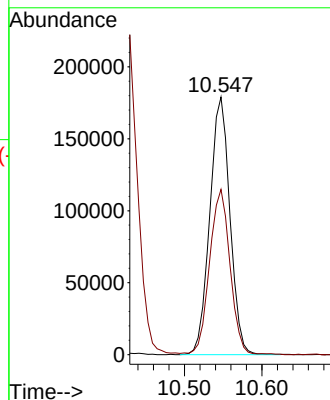
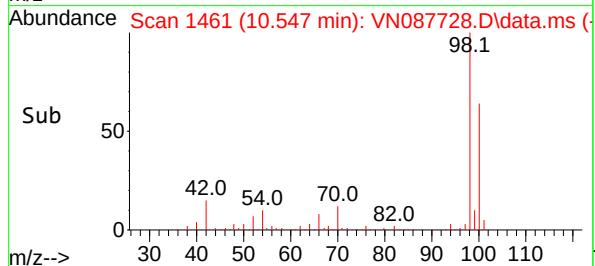
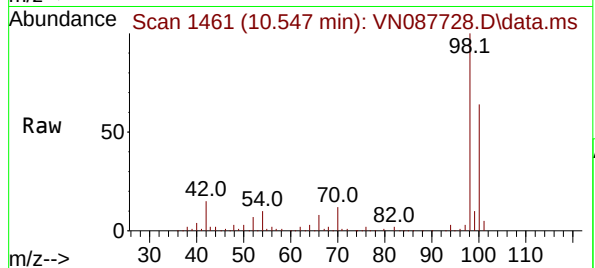
#63  
Toluene-d8  
Concen: 30.351 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 98 Resp: 323414  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.6 76.0

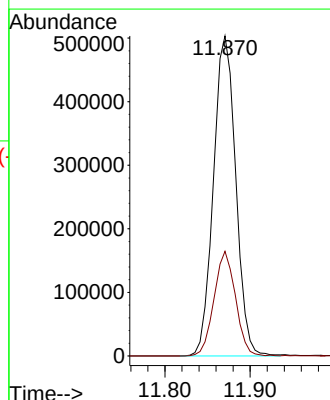
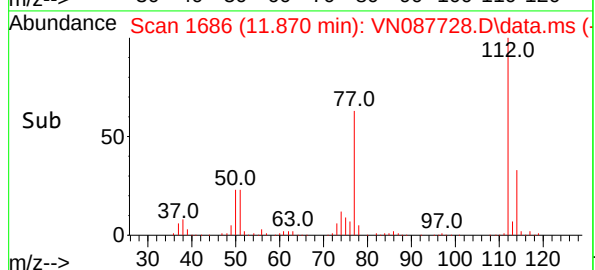
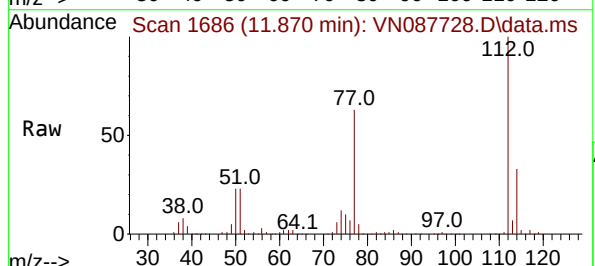
Manual Integrations  
APPROVED

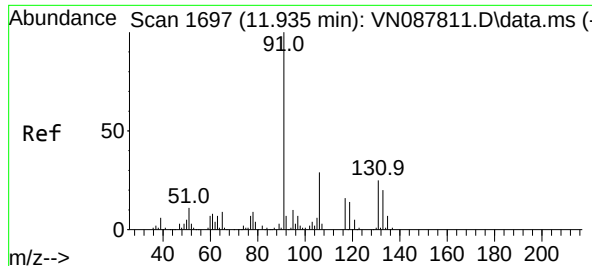
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#64  
Chlorobenzene  
Concen: 107.540 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

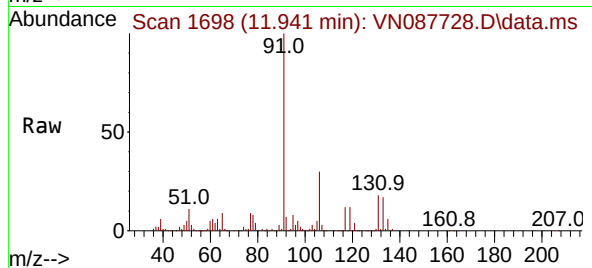
Tgt Ion:112 Resp: 915703  
Ion Ratio Lower Upper  
112 100  
114 32.7 23.5 35.3





#65  
1,1,1,2-Tetrachloroethane  
Concen: 105.470 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

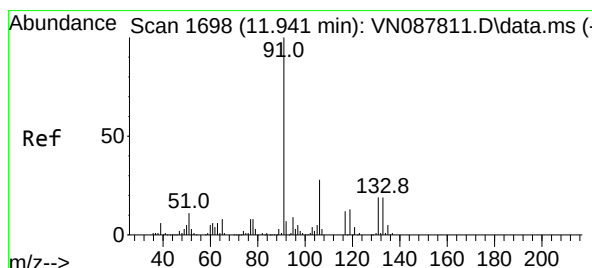
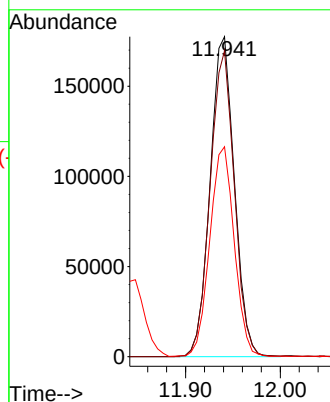
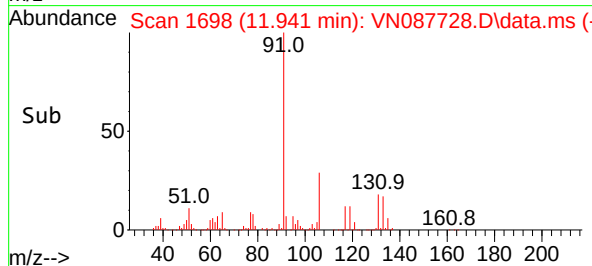
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:131 Resp: 316144  
Ion Ratio Lower Upper  
131 100  
133 95.4 0.0 195.8  
119 66.1 0.0 139.0

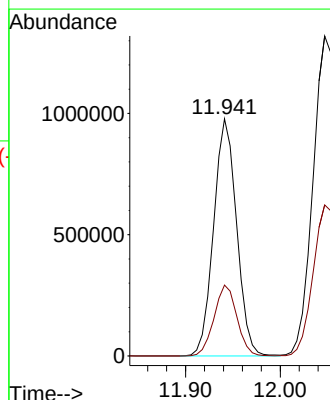
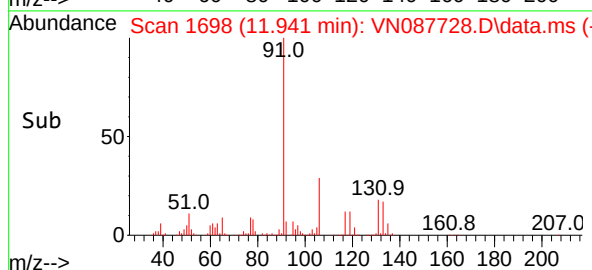
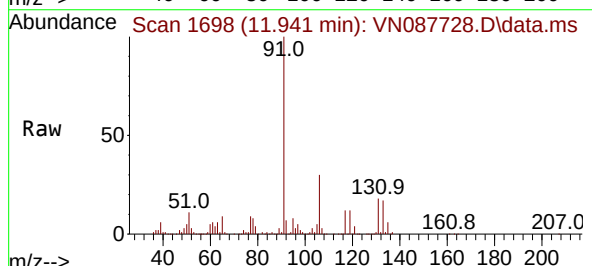
Manual Integrations  
APPROVED

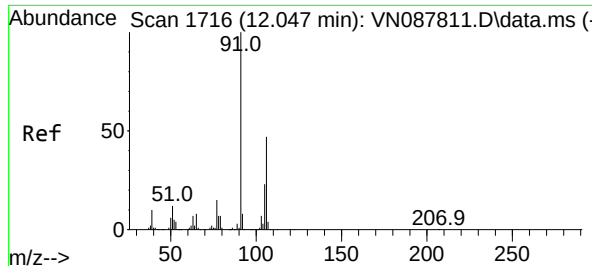
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66  
Ethyl Benzene  
Concen: 107.822 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 91 Resp: 1649107  
Ion Ratio Lower Upper  
91 100  
106 29.9 21.3 31.9





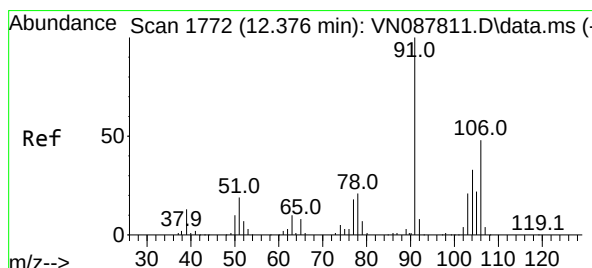
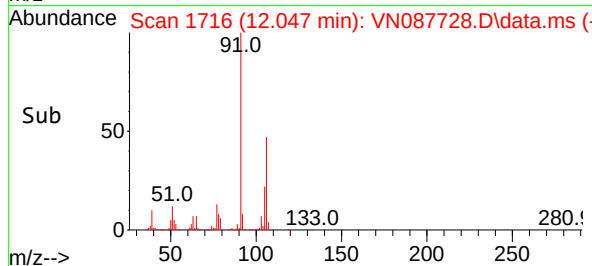
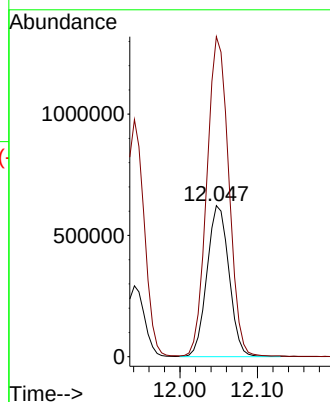
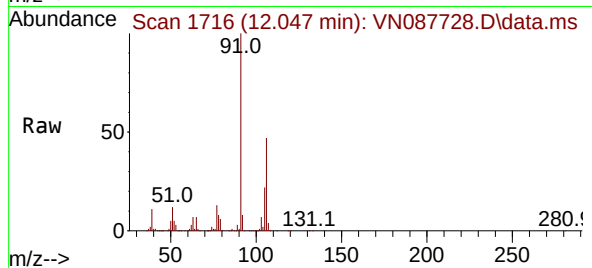
#67  
m/p-Xylenes  
Concen: 218.504 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:106 Resp: 123008  
Ion Ratio Lower Upper  
106 100  
91 211.2 174.3 261.5

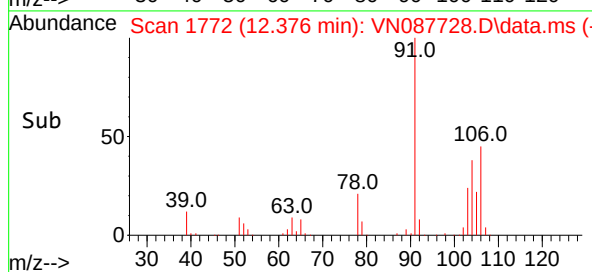
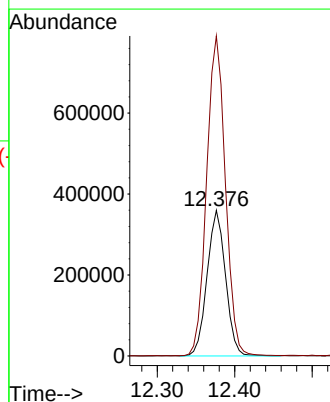
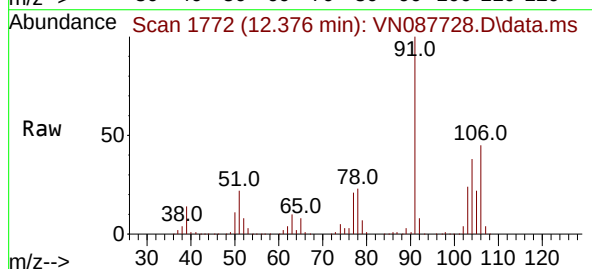
Manual Integrations  
APPROVED

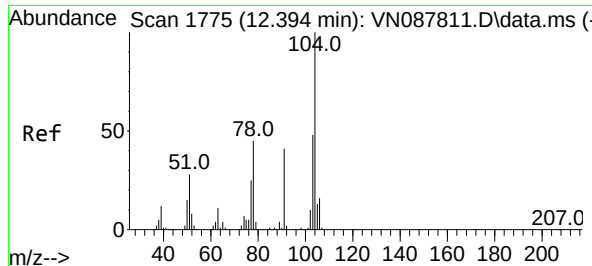
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#68  
o-Xylene  
Concen: 107.086 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion:106 Resp: 594671  
Ion Ratio Lower Upper  
106 100  
91 223.9 107.7 323.3





#69

Styrene

Concen: 111.873 ug/l

RT: 12.388 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion:104 Resp: 105680

Ion Ratio Lower Upper

104 100

78 52.1 41.0 61.6

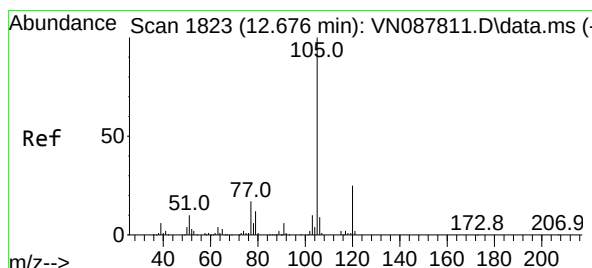
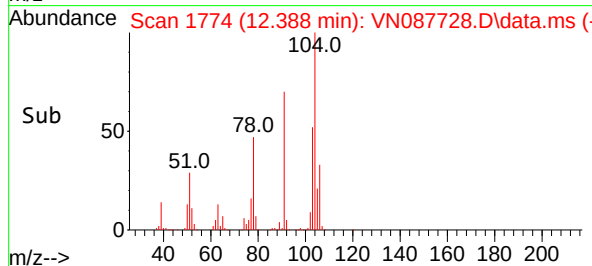
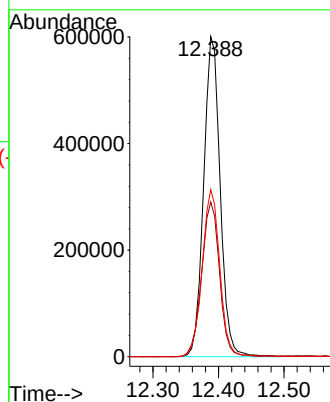
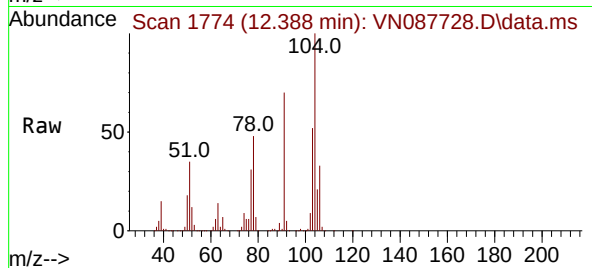
103 55.2 44.6 66.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#70

Isopropylbenzene

Concen: 109.171 ug/l

RT: 12.670 min Scan# 1822

Delta R.T. -0.006 min

Lab File: VN087728.D

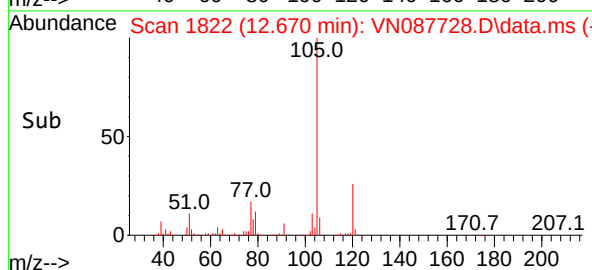
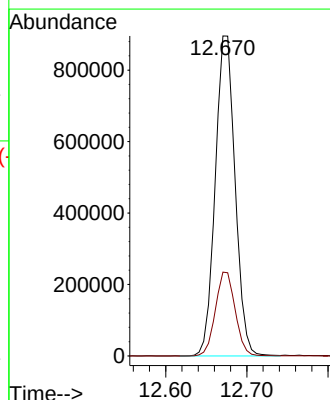
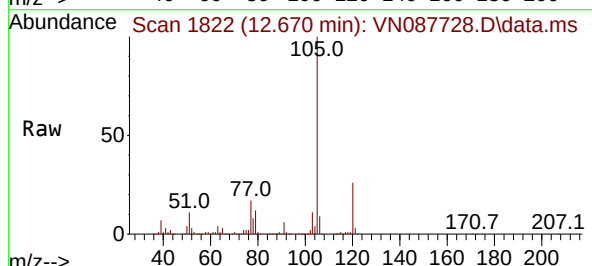
Acq: 04 Sep 2025 17:25

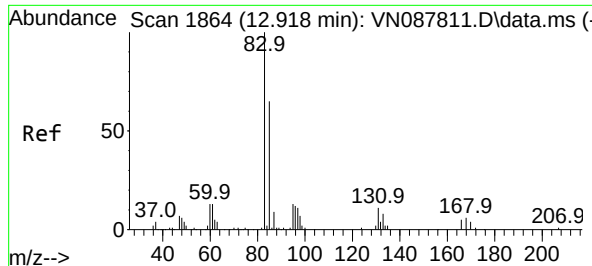
Tgt Ion:105 Resp: 1525065

Ion Ratio Lower Upper

105 100

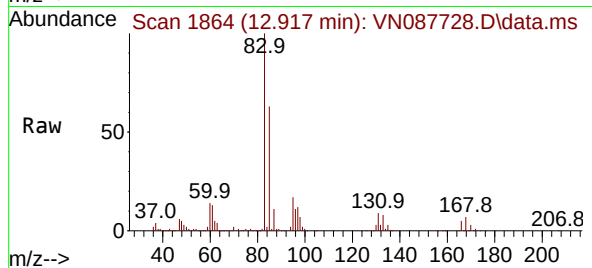
120 26.1 17.4 32.4





#71  
1,1,2,2-Tetrachloroethane  
Concen: 105.616 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

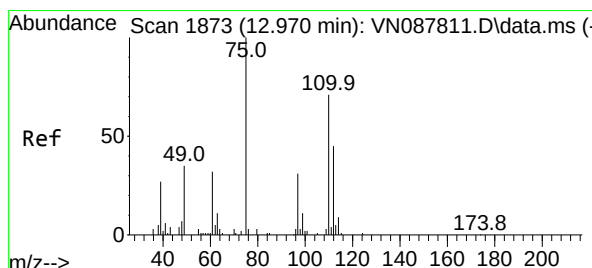
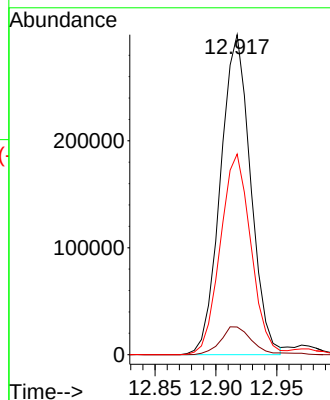
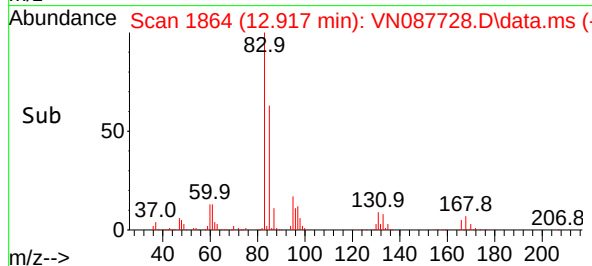
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 83 Resp: 514778  
Ion Ratio Lower Upper  
83 100  
131 8.8 4.8 14.3  
85 63.8 31.9 95.7

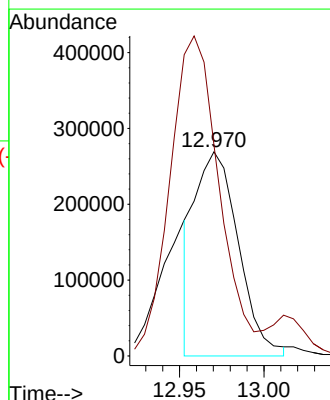
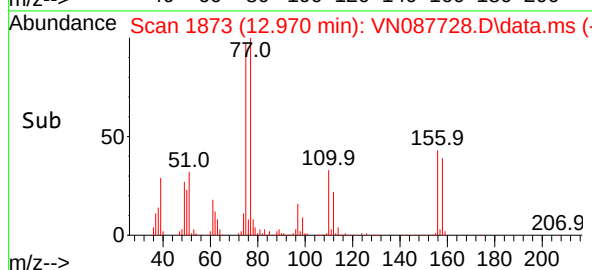
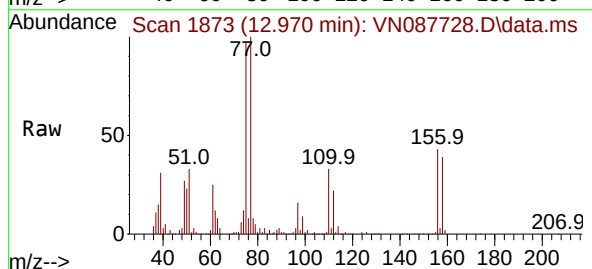
Manual Integrations  
APPROVED

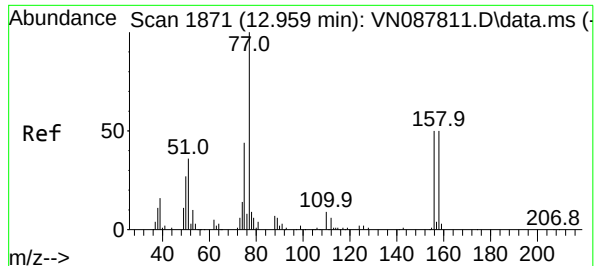
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72  
1,2,3-Trichloropropane  
Concen: 105.647 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

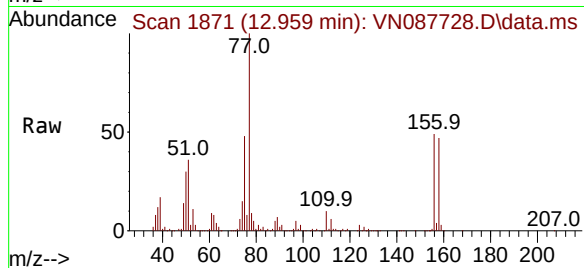
Tgt Ion: 75 Resp: 480400  
Ion Ratio Lower Upper  
75 100  
77 177.7 0.0 378.8





#73  
Bromobenzene  
Concen: 108.052 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

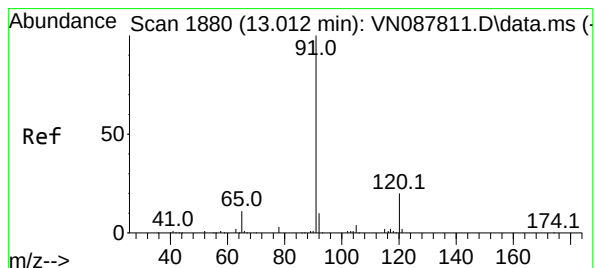
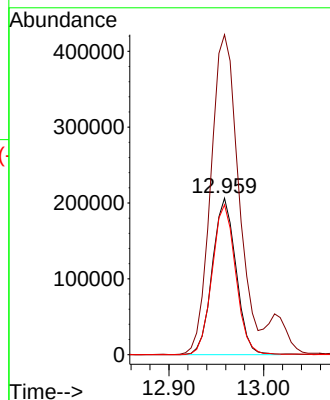
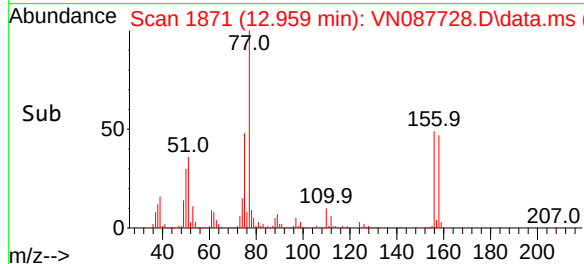
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



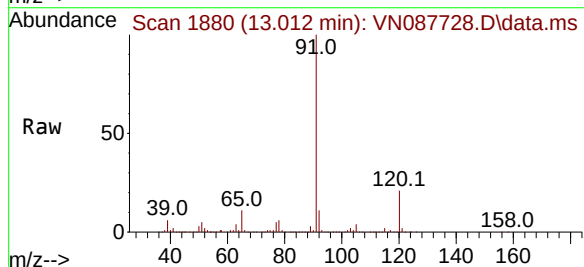
Tgt Ion:156 Resp: 35683  
Ion Ratio Lower Upper  
156 100  
77 239.2 0.0 484.2  
158 95.9 0.0 186.2

Manual Integrations  
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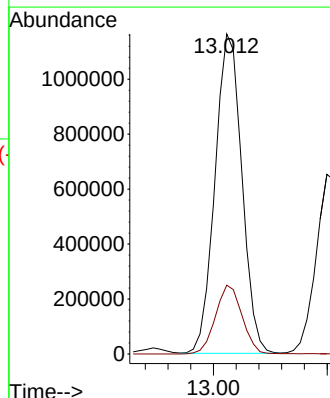
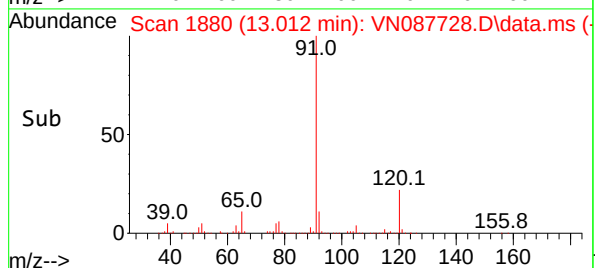
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

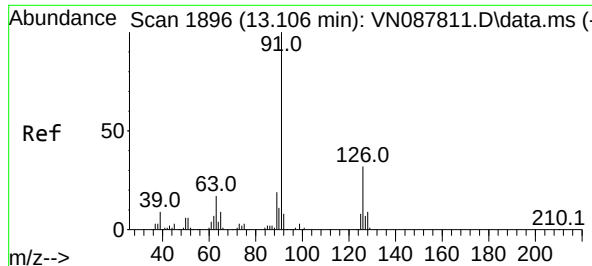


#74  
n-propylbenzene  
Concen: 108.687 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25



Tgt Ion: 91 Resp: 1910176  
Ion Ratio Lower Upper  
91 100  
120 21.3 0.0 42.2





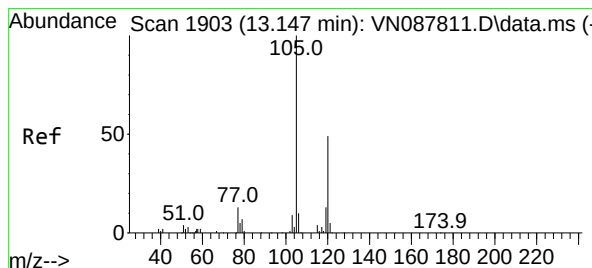
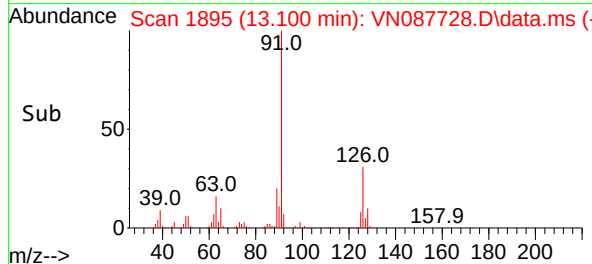
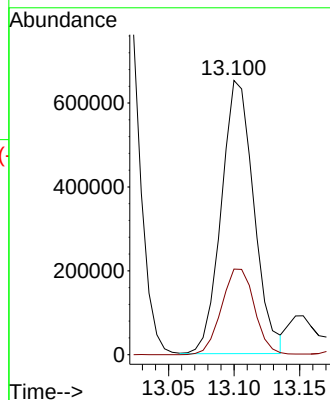
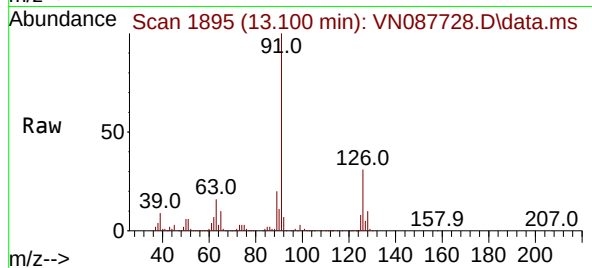
#75  
2-Chlorotoluene  
Concen: 104.153 ug/l  
RT: 13.100 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion: 91 Resp: 1125992  
Ion Ratio Lower Upper  
91 100  
126 31.8 0.0 60.4

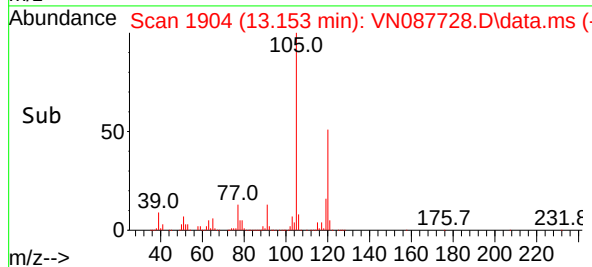
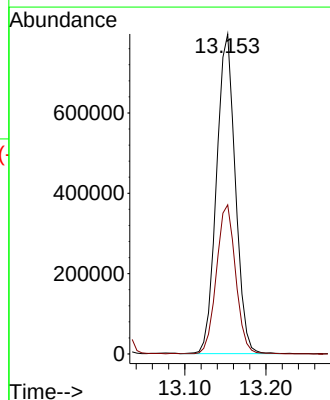
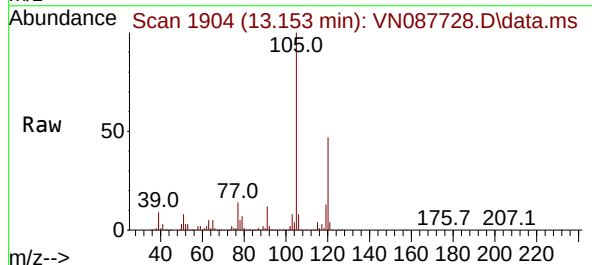
Manual Integrations  
APPROVED

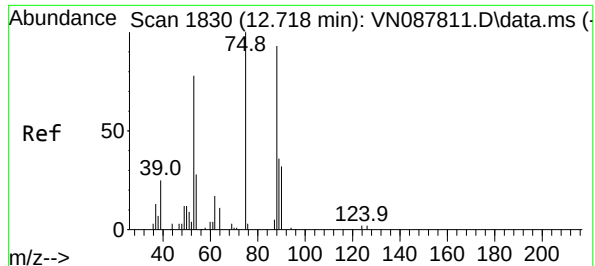
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 106.824 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

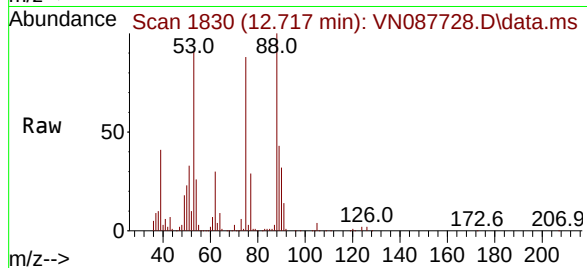
Tgt Ion:105 Resp: 1280589  
Ion Ratio Lower Upper  
105 100  
120 47.7 0.0 92.6





#77  
t-1,4-Dichloro-2-butene  
Concen: 111.145 ug/l  
RT: 12.717 min Scan# 1830  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

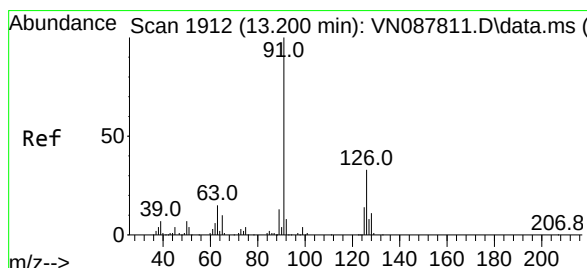
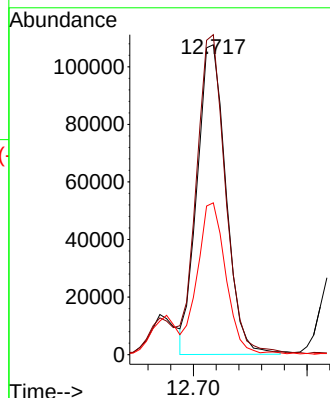
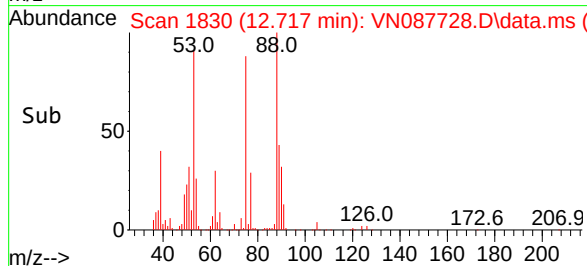
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion: 75 Resp: 189778  
Ion Ratio Lower Upper  
75 100  
53 103.0 45.3 135.9  
89 48.8 18.8 56.3

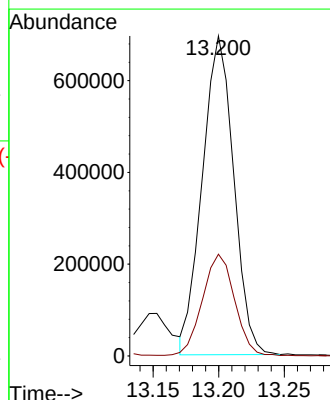
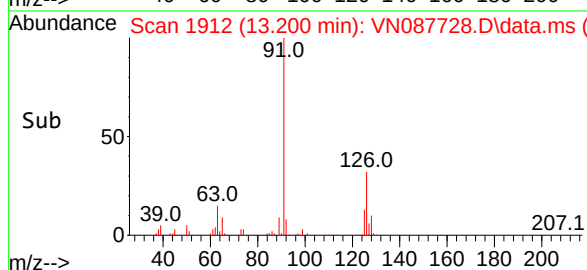
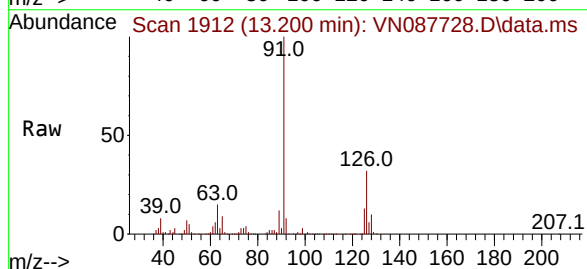
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

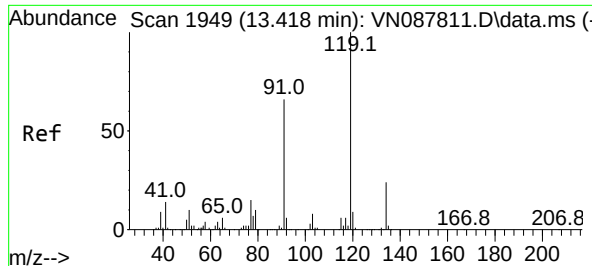


#78  
4-Chlorotoluene  
Concen: 105.159 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion: 91 Resp: 1157012  
Ion Ratio Lower Upper  
91 100  
126 32.5 0.0 67.0







#79

tert-butylbenzene

Concen: 106.056 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 107111

Ion Ratio Lower Upper

119 100

91 69.2 0.0 142.6

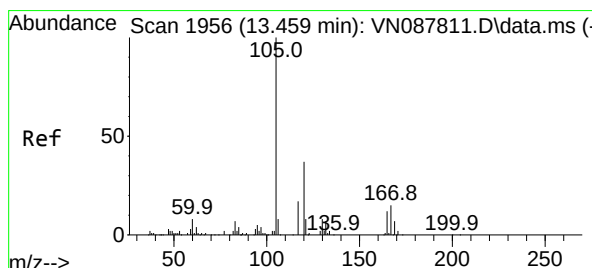
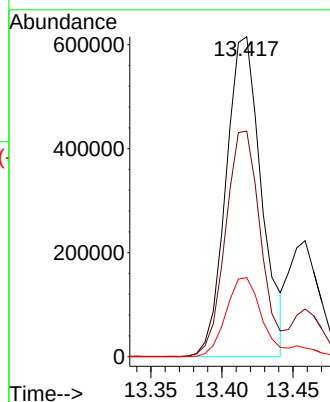
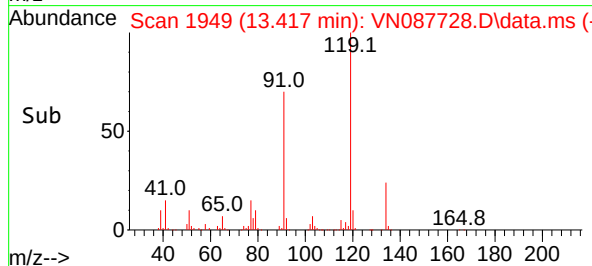
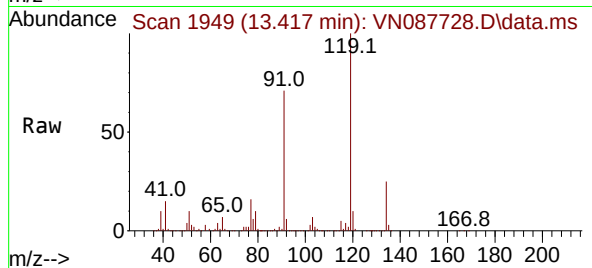
134 24.8 0.0 47.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#80

1,2,4-Trimethylbenzene

Concen: 107.903 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087728.D

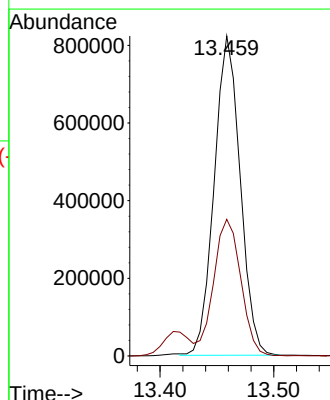
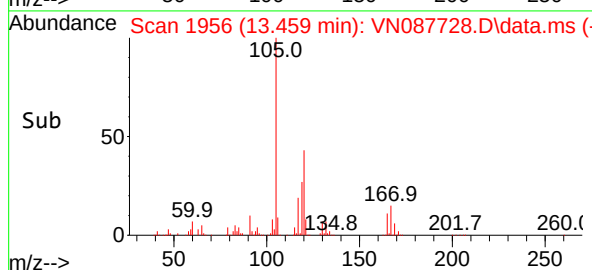
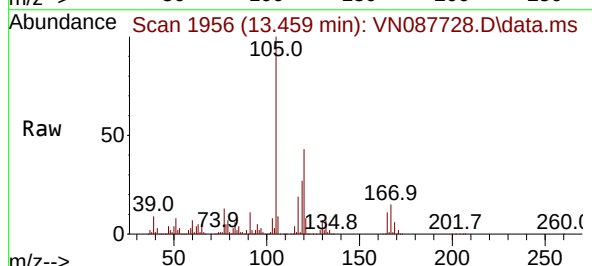
Acq: 04 Sep 2025 17:25

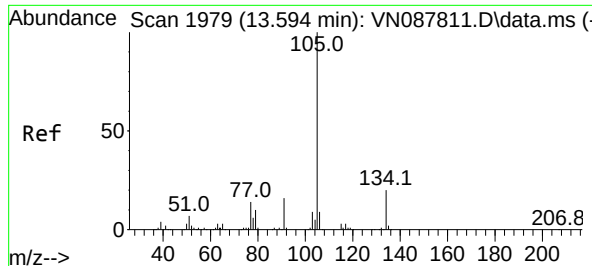
Tgt Ion:105 Resp: 1304823

Ion Ratio Lower Upper

105 100

120 44.9 0.0 86.6





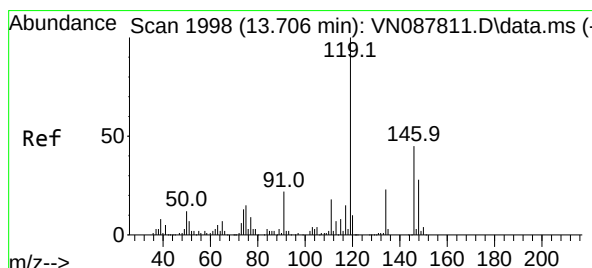
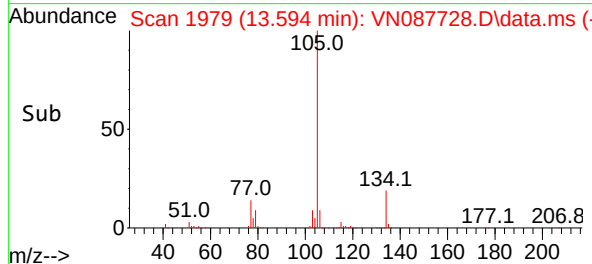
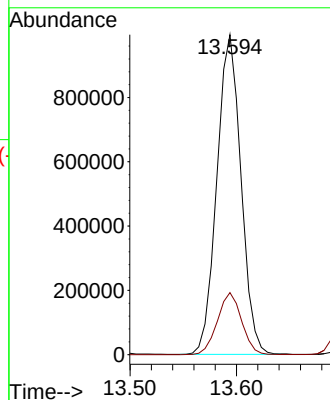
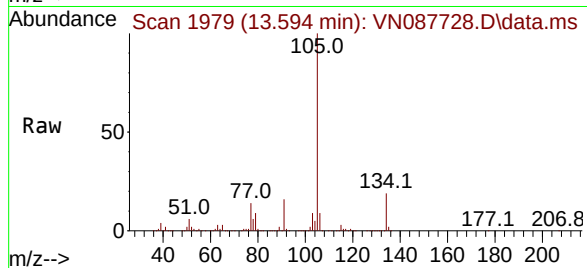
#81  
sec-Butylbenzene  
Concen: 106.168 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Tgt Ion:105 Resp: 1563520  
Ion Ratio Lower Upper  
105 100  
134 19.5 0.0 37.0

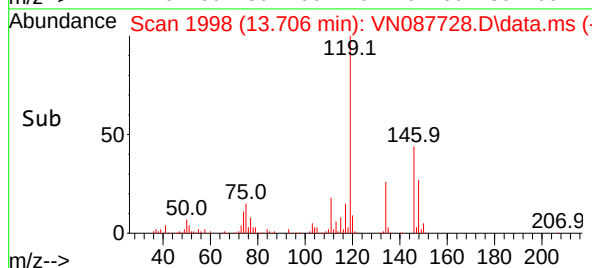
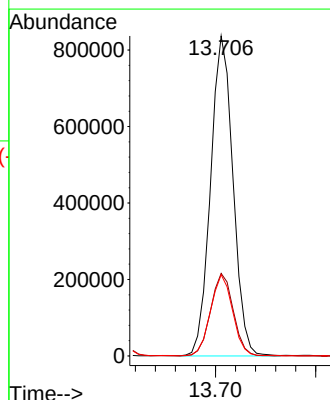
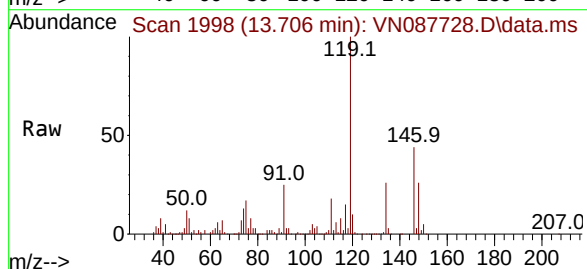
Manual Integrations  
APPROVED

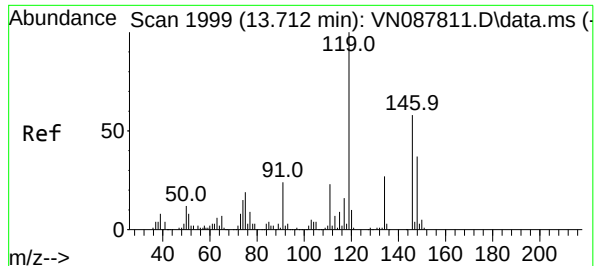
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#82  
p-Isopropyltoluene  
Concen: 106.747 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion:119 Resp: 1301395  
Ion Ratio Lower Upper  
119 100  
134 26.1 0.0 49.4  
91 24.8 0.0 52.2





#83

1,3-Dichlorobenzene

Concen: 109.350 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

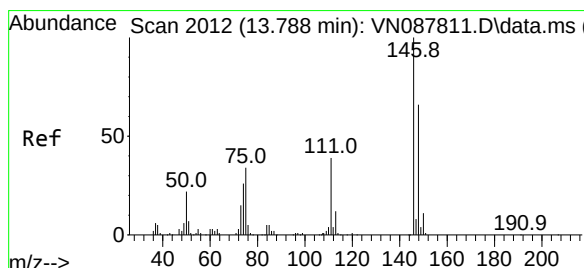
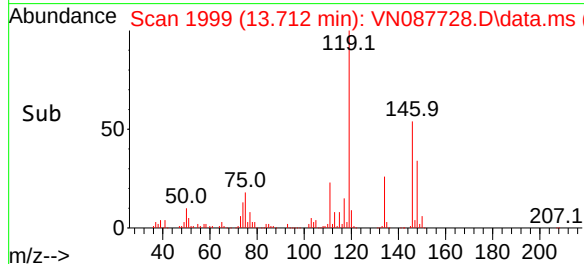
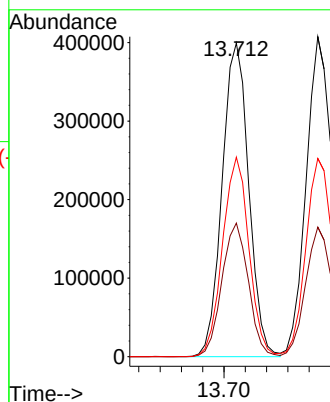
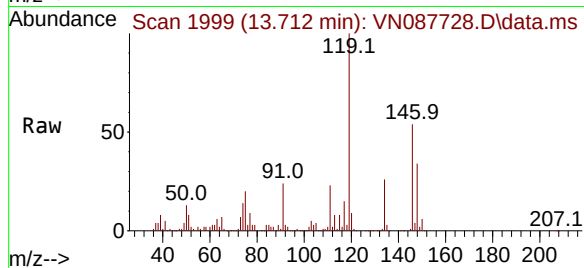
VSTDICC100

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 69190 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 42.5  | 21.1  | 63.4  |
| 148       | 63.3  | 31.0  | 93.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 109.576 ug/l

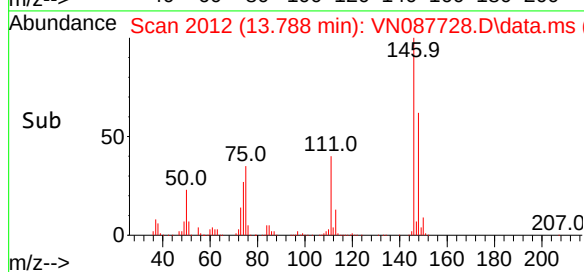
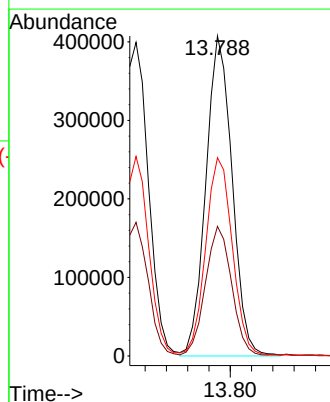
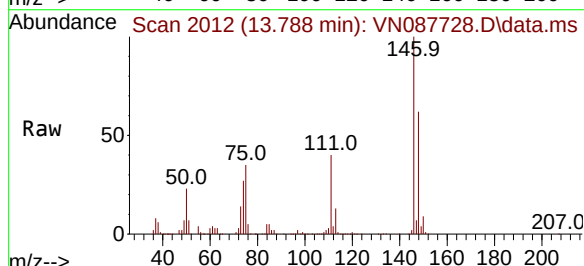
RT: 13.788 min Scan# 1212

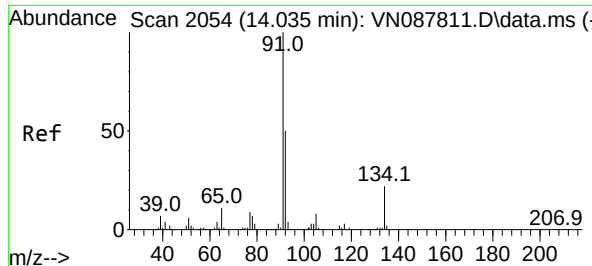
Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 697980 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.7  | 20.2  | 60.5   |
| 148       | 63.2  | 31.5  | 94.5   |





#85

n-Butylbenzene

Concen: 106.198 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 125755

Ion Ratio Lower Upper

91 100

92 52.3 0.0 104.0

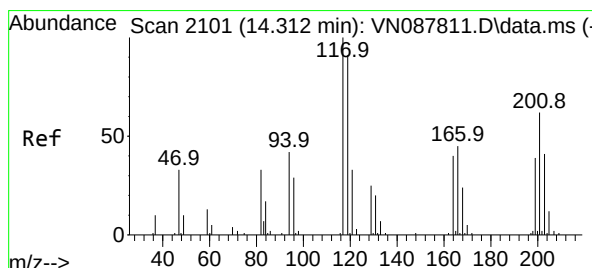
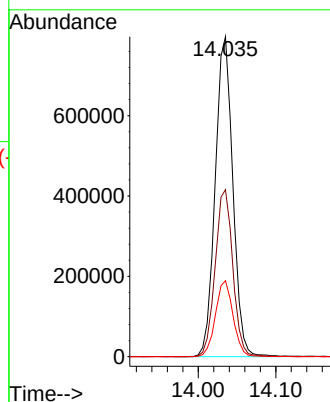
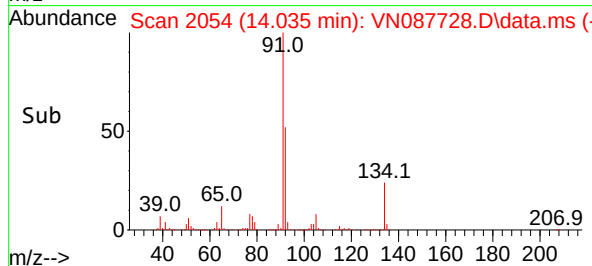
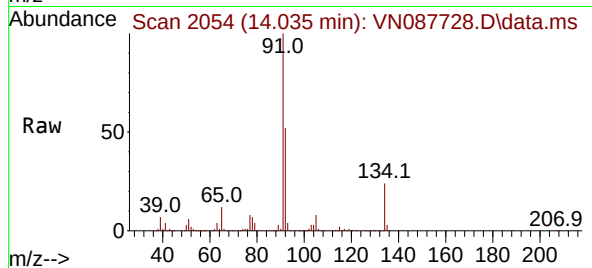
134 23.9 0.0 46.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#86

Hexachloroethane

Concen: 104.907 ug/l

RT: 14.311 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN087728.D

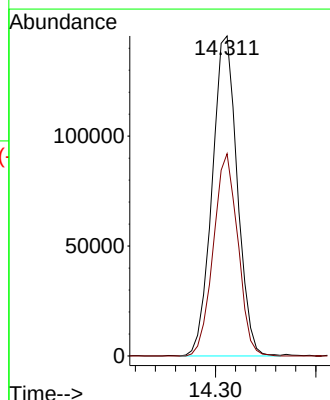
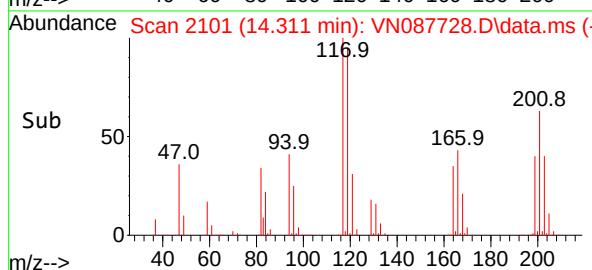
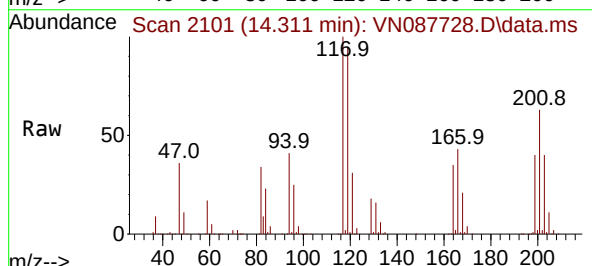
Acq: 04 Sep 2025 17:25

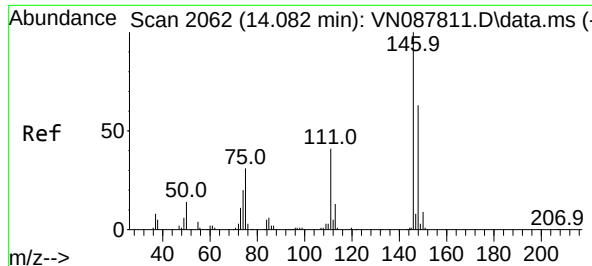
Tgt Ion:117 Resp: 253844

Ion Ratio Lower Upper

117 100

201 61.4 29.9 89.7





#87

1,2-Dichlorobenzene

Concen: 109.561 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 65735

Ion Ratio Lower Upper

146 100

111 45.4 21.5 64.5

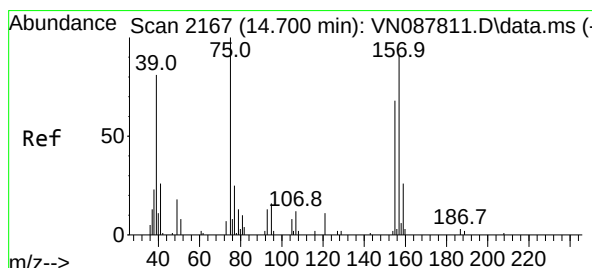
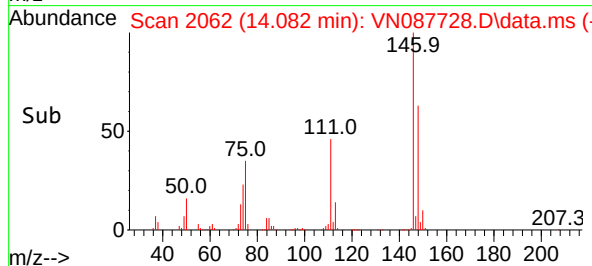
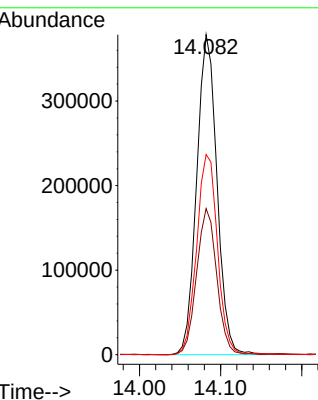
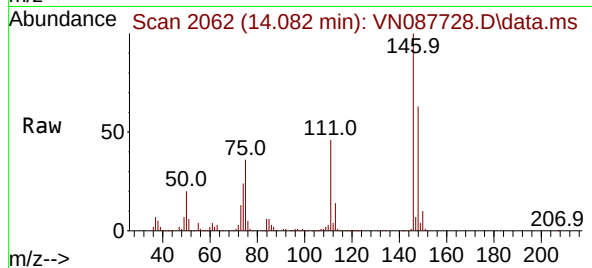
148 64.0 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 97.139 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

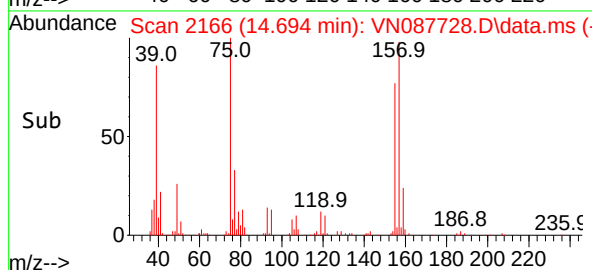
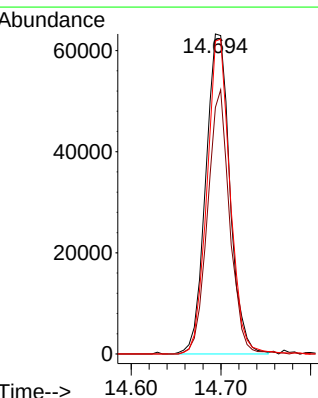
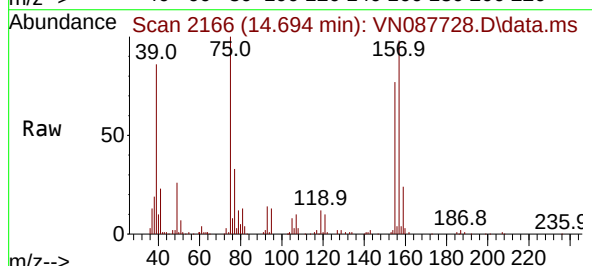
Tgt Ion: 75 Resp: 118055

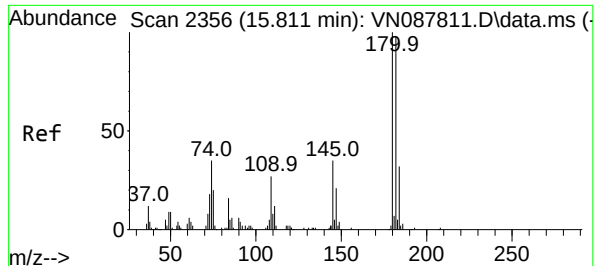
Ion Ratio Lower Upper

75 100

155 75.3 53.0 79.4

157 94.3 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 106.405 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 37728

Ion Ratio Lower Upper

180 100

182 94.3 74.6 111.8

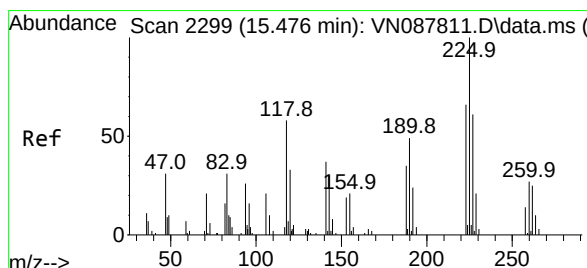
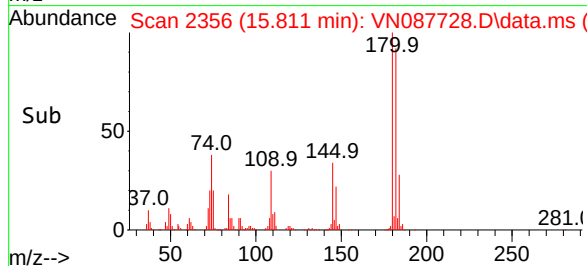
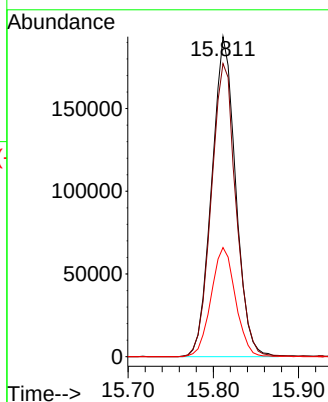
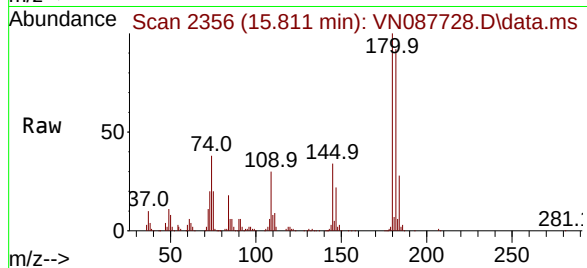
145 34.7 27.4 41.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 90.327 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.006 min

Lab File: VN087728.D

Acq: 04 Sep 2025 17:25

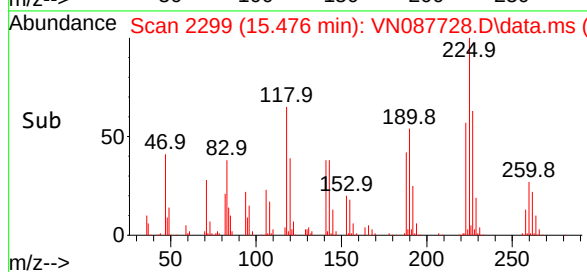
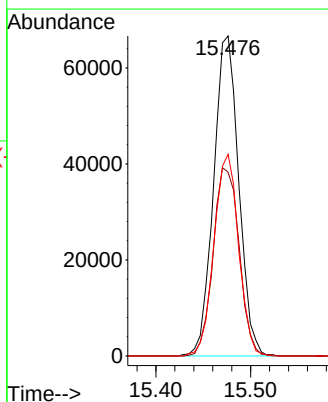
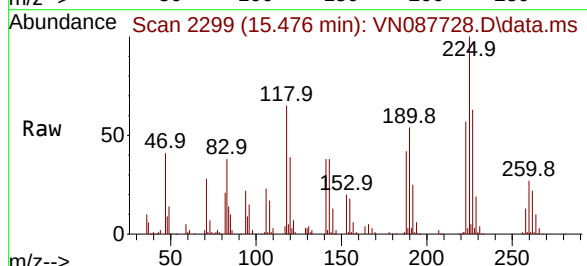
Tgt Ion:225 Resp: 122782

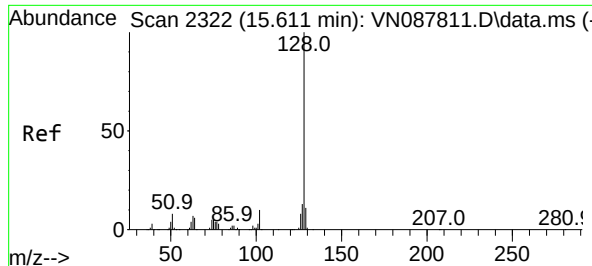
Ion Ratio Lower Upper

225 100

223 60.8 0.0 118.2

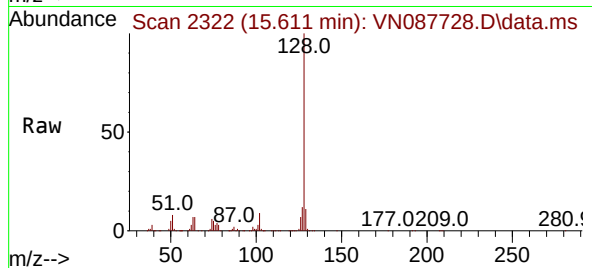
227 61.8 0.0 139.0





#91  
Naphthalene  
Concen: 108.784 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

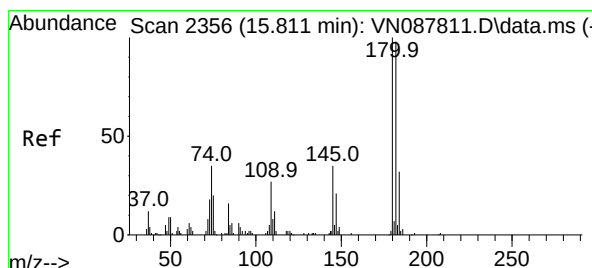
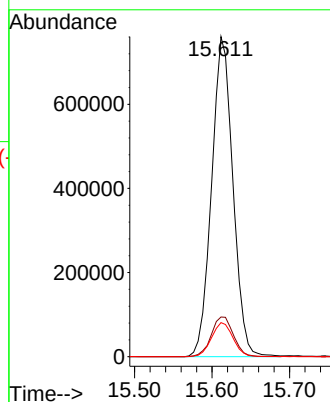
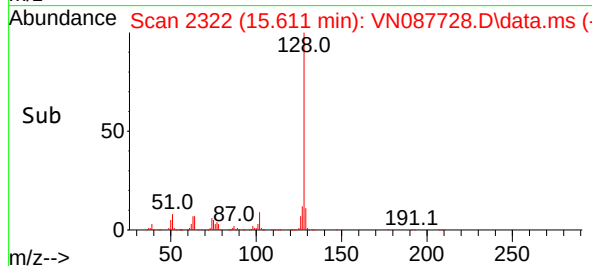
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100



Tgt Ion:128 Resp: 1453918  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 10.8 8.3 12.5

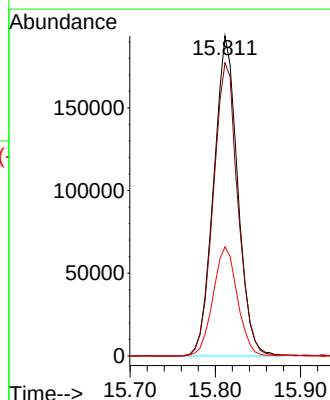
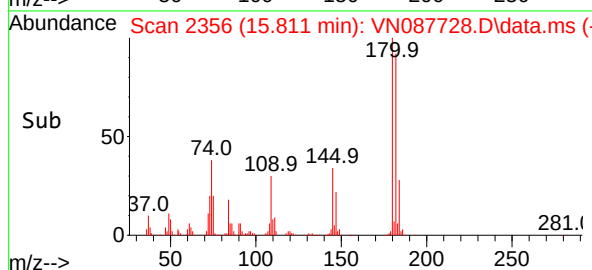
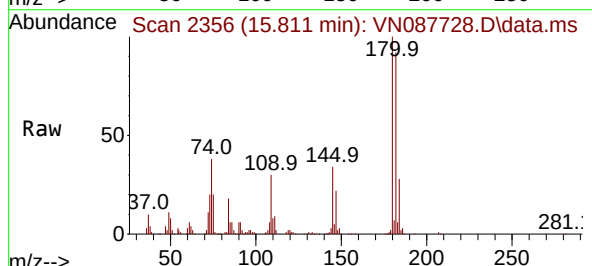
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 106.405 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087728.D  
Acq: 04 Sep 2025 17:25

Tgt Ion:180 Resp: 377288  
Ion Ratio Lower Upper  
180 100  
182 94.3 0.0 186.4  
145 34.7 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087729.D  
 Acq On : 04 Sep 2025 17:46  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Sep 05 03:00:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards           |                |      |            |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 48732      | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 256987     | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 242434     | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 125853     | 28.682  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 95.600% |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 119357     | 28.950  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 96.500% |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 331838     | 29.625  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 98.733% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 460014     | 149.391 | ug/l   | 99       |
| 3) Chloromethane             | 2.383          | 50   | 485468     | 154.452 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.536          | 62   | 548014     | 162.679 | ug/l   | 97       |
| 5) Bromomethane              | 2.953          | 94   | 338024     | 182.035 | ug/l   | 96       |
| 6) Chloroethane              | 3.124          | 64   | 366963     | 166.372 | ug/l # | 85       |
| 7) Trichlorofluoromethane    | 3.506          | 101  | 797041     | 163.196 | ug/l   | 91       |
| 8) Diethyl Ether             | 3.959          | 74   | 341803     | 168.693 | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 422322     | 166.217 | ug/l   | 78       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 449863     | 171.802 | ug/l   | 95       |
| 11) Methyl Iodide            | 4.577          | 142  | 421989     | 205.284 | ug/l   | 90       |
| 12) Methyl Acetate           | 5.012          | 43   | 724097     | 152.583 | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 630478m    | 849.771 | ug/l   |          |
| 14) Acrylonitrile            | 5.706          | 53   | 1538968    | 749.724 | ug/l   | 98       |
| 15) Acetone                  | 4.424          | 58   | 425162     | 730.123 | ug/l   | 90       |
| 16) Carbon Disulfide         | 4.700          | 76   | 1271777m   | 158.737 | ug/l   |          |
| 17) Allyl chloride           | 5.012          | 41   | 766742     | 148.357 | ug/l   | 92       |
| 18) Methylene Chloride       | 5.259          | 84   | 507725     | 153.709 | ug/l   | 91       |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 477957     | 156.377 | ug/l   | 96       |
| 20) Diisopropyl ether        | 6.659          | 45   | 1793426    | 152.305 | ug/l   | 94       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 931404     | 152.104 | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 586326     | 156.802 | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.530          | 59   | 545385     | 639.163 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 1739496    | 151.610 | ug/l   | 98       |
| 25) Chloroform               | 7.947          | 83   | 983285     | 152.526 | ug/l   | 95       |
| 26) Cyclohexane              | 8.241          | 56   | 727166     | 150.164 | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 648804     | 157.510 | ug/l   | 99       |
| 30) 2-Butanone               | 7.471          | 43   | 2196856    | 736.360 | ug/l   | 98       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 781979     | 151.522 | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 806677     | 152.690 | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 670757     | 154.283 | ug/l   | 97       |
| 34) Benzene                  | 8.588          | 78   | 2101924    | 160.910 | ug/l   | 95       |
| 35) Methacrylonitrile        | 7.759          | 41   | 468477     | 144.552 | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 770632     | 147.988 | ug/l   | 100      |
| 37) Trichloroethene          | 9.335          | 130  | 458415     | 159.355 | ug/l   | 94       |
| 38) Methylcyclohexane        | 9.582          | 83   | 704436     | 149.907 | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 532904     | 159.192 | ug/l   | 100      |
| 40) Dibromomethane           | 9.688          | 93   | 390063     | 155.837 | ug/l   | 99       |
| 41) Bromodichloromethane     | 9.871          | 83   | 801266     | 153.294 | ug/l # | 94       |
| 42) Vinyl Acetate            | 6.588          | 43   | 7618340    | 776.186 | ug/l   | 99       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087729.D  
 Acq On : 04 Sep 2025 17:46  
 Operator : JC\MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC150

Quant Time: Sep 05 03:00:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 02:54:56 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 903610   | 153.686  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 1460618  | 149.330  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.682  | 88   | 187970   | 3001.771 | ug/l # | 91       |
| 46) Methyl methacrylate       | 9.665  | 41   | 670040   | 146.351  | ug/l   | 100      |
| 47) n-amyl Acetate            | 12.482 | 43   | 1048336m | 184.337  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 885111   | 158.851  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 901540   | 160.315  | ug/l   | 94       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 511317   | 160.824  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 906831   | 167.159  | ug/l   | 94       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 893642   | 156.782  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 596338   | 164.776  | ug/l   | 92       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 546357   | 163.081  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 2464831  | 840.927  | ug/l   | 98       |
| 56) Bromoform                 | 12.559 | 173  | 402223   | 167.746  | ug/l   | 97       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 4473520  | 745.754  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.176 | 43   | 3170935  | 780.545  | ug/l   | 97       |
| 61) Tetrachloroethene         | 11.082 | 164  | 363806   | 155.454  | ug/l   | 97       |
| 62) Toluene                   | 10.612 | 91   | 2294262  | 157.273  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 1432339  | 160.019  | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 486507   | 154.396  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 2571632  | 159.947  | ug/l   | 95       |
| 67) m/p-Xylenes               | 12.047 | 106  | 1904203  | 321.770  | ug/l   | 95       |
| 68) o-Xylene                  | 12.376 | 106  | 940685   | 161.143  | ug/l   | 95       |
| 69) Styrene                   | 12.388 | 104  | 1653060  | 166.468  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.670 | 105  | 2375492  | 161.764  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 793928   | 154.952  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 732764m  | 153.295  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 553482   | 159.435  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 2937041  | 158.973  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 1747793  | 153.793  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 1960149  | 155.546  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 311177   | 173.364  | ug/l   | 89       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 1806216  | 156.166  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.417 | 119  | 1648726  | 155.295  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 2015689  | 158.567  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 2383484  | 153.961  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 1983862  | 154.798  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 1059997  | 159.363  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 1050951  | 156.951  | ug/l   | 98       |
| 85) n-Butylbenzene            | 14.035 | 91   | 1919423  | 154.195  | ug/l   | 100      |
| 86) Hexachloroethane          | 14.311 | 117  | 392690   | 154.382  | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 1004257  | 159.224  | ug/l   | 97       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 184176   | 144.163  | ug/l   | 93       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 591983   | 158.821  | ug/l   | 97       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 183756   | 128.598  | ug/l   | 95       |
| 91) Naphthalene               | 15.611 | 128  | 2324387  | 165.441  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 591983   | 158.821  | ug/l   | 97       |

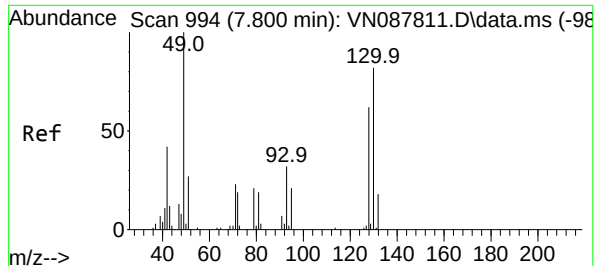
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDICC150

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025





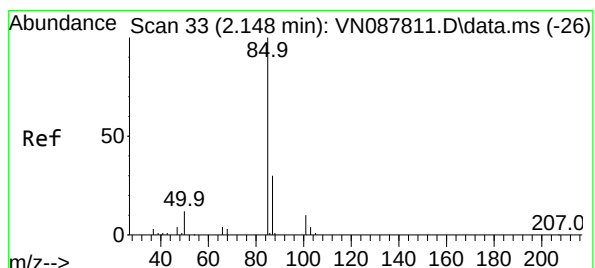
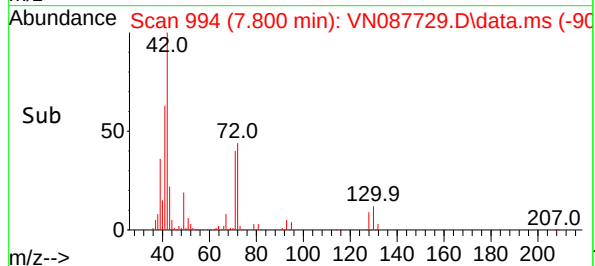
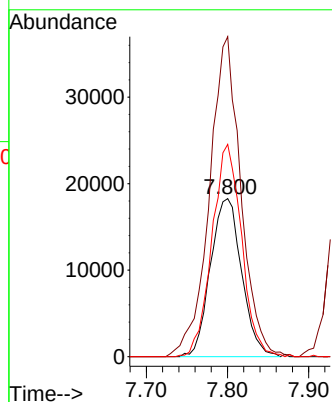
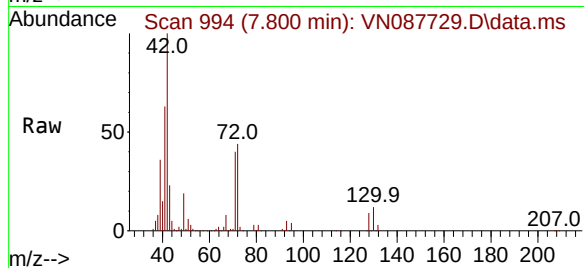
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion:128 Resp: 48732  
Ion Ratio Lower Upper  
128 100  
49 204.4 0.0 464.3  
130 127.8 0.0 300.5

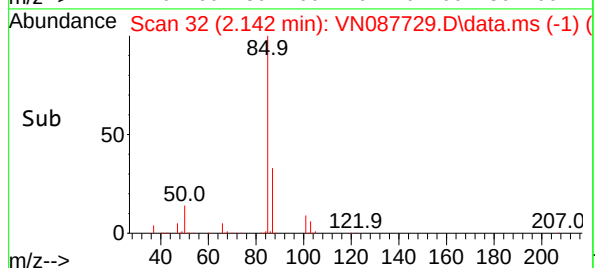
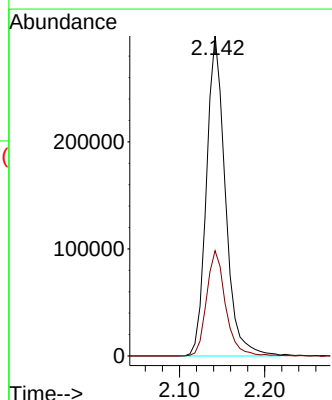
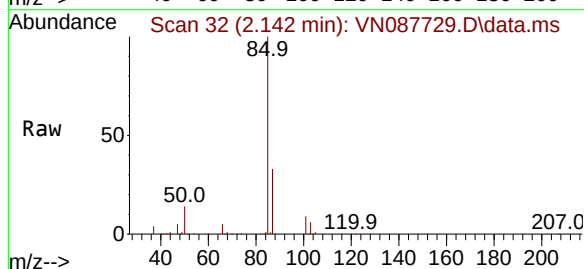
Manual Integrations  
APPROVED

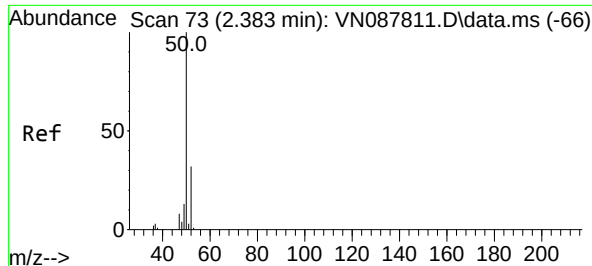
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 149.391 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

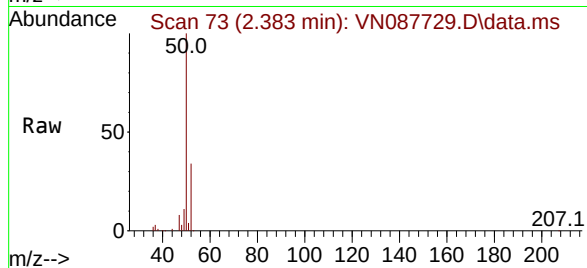
Tgt Ion: 85 Resp: 460014  
Ion Ratio Lower Upper  
85 100  
87 32.9 16.8 50.4





#3  
Chloromethane  
Concen: 154.452 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

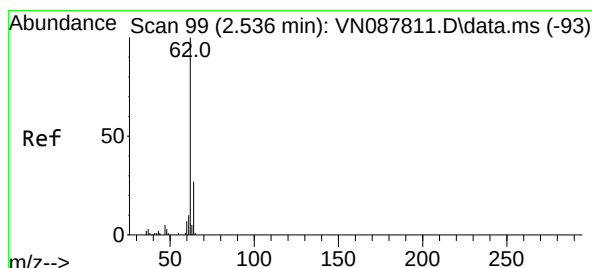
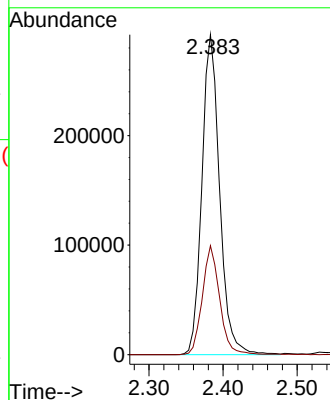
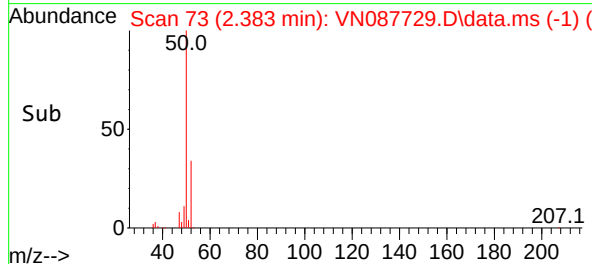
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 50 Resp: 485468  
Ion Ratio Lower Upper  
50 100  
52 34.0 26.6 40.0

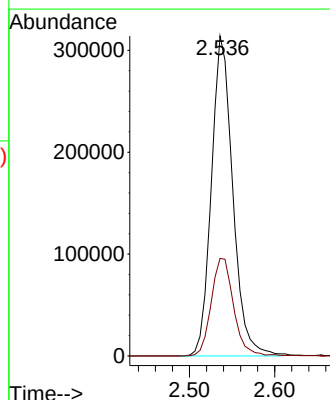
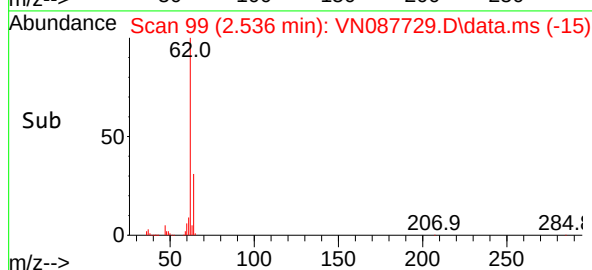
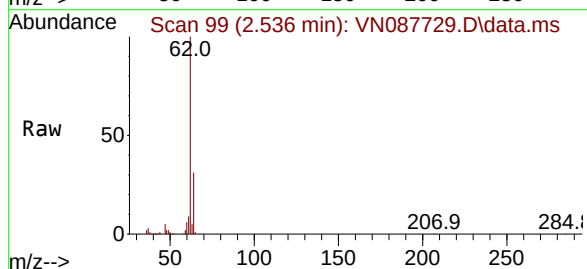
Manual Integrations  
APPROVED

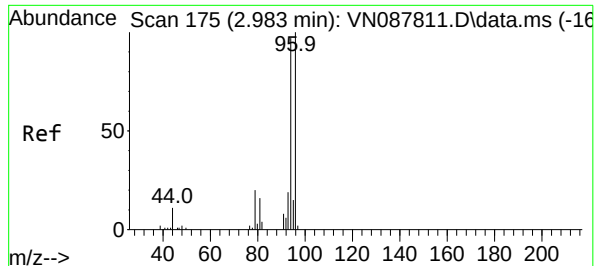
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 162.679 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 62 Resp: 548014  
Ion Ratio Lower Upper  
62 100  
64 30.5 25.5 38.3





#5

Bromomethane

Concen: 182.035 ug/l

RT: 2.953 min Scan# 11

Delta R.T. -0.024 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 338024

Ion Ratio Lower Upper

94 100

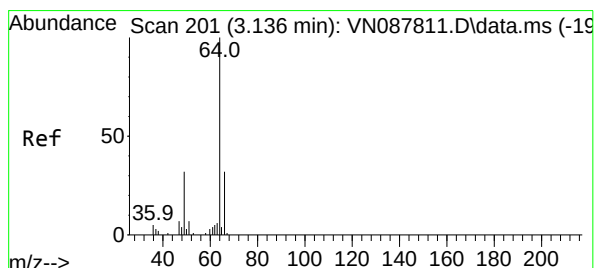
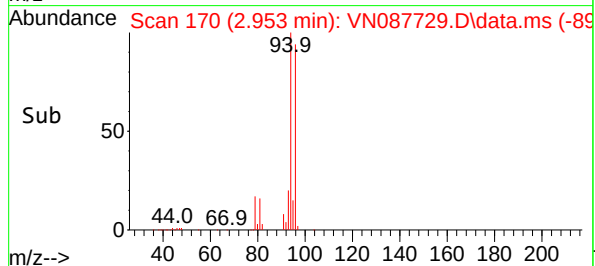
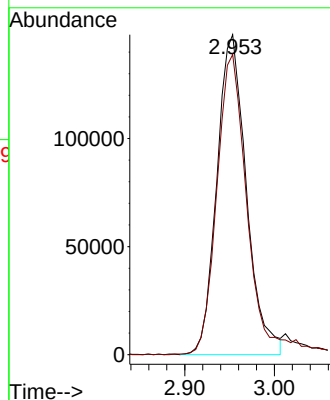
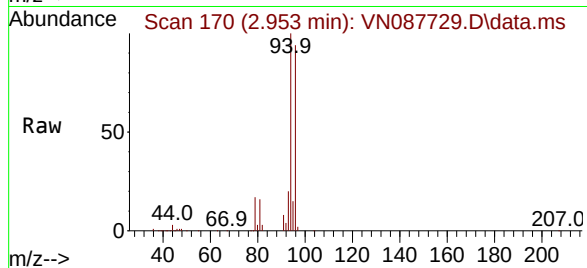
96 93.6 72.2 108.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#6

Chloroethane

Concen: 166.372 ug/l

RT: 3.124 min Scan# 199

Delta R.T. -0.018 min

Lab File: VN087729.D

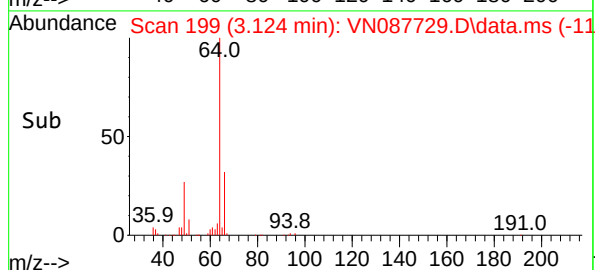
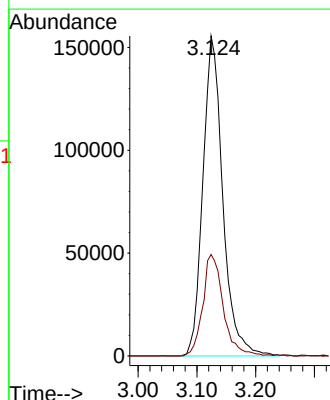
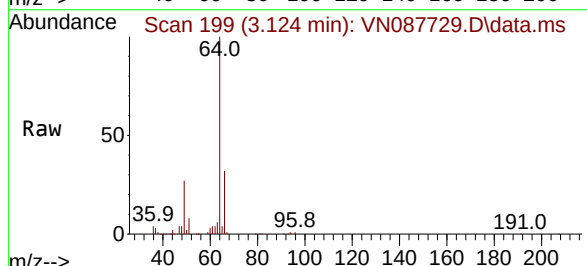
Acq: 04 Sep 2025 17:46

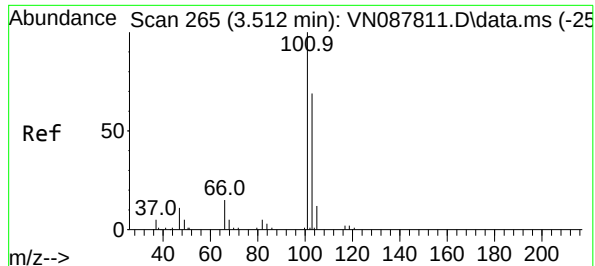
Tgt Ion: 64 Resp: 366963

Ion Ratio Lower Upper

64 100

66 31.7 32.8 49.2#





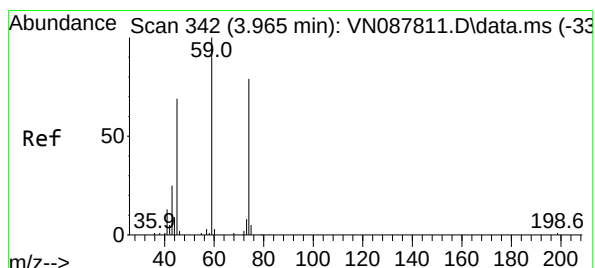
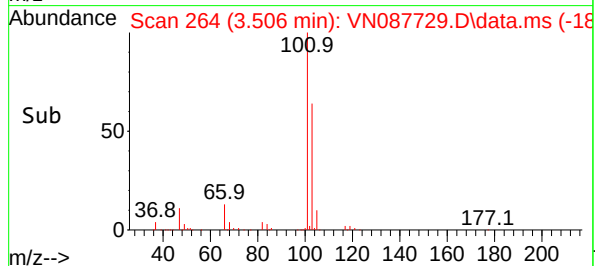
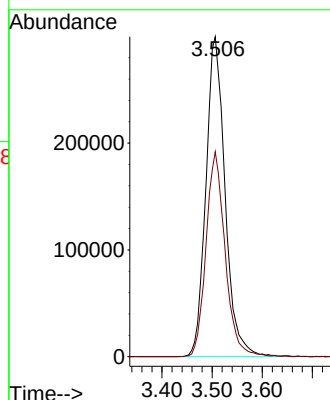
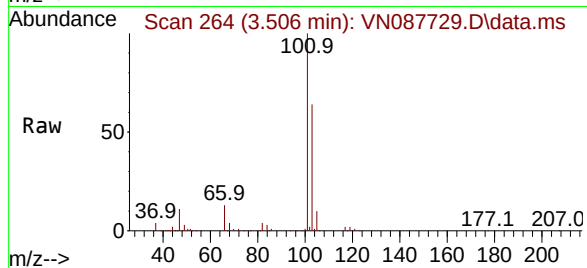
#7  
Trichlorofluoromethane  
Concen: 163.196 ug/l  
RT: 3.506 min Scan# 265  
Delta R.T. -0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion:101 Resp: 79704  
Ion Ratio Lower Upper  
101 100  
103 63.9 45.7 68.5

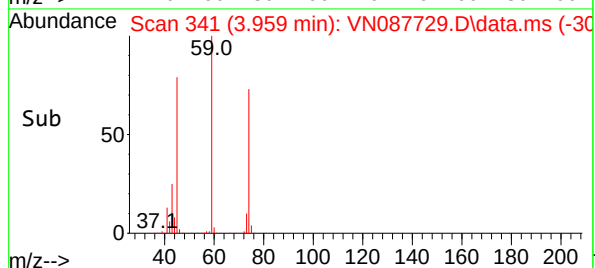
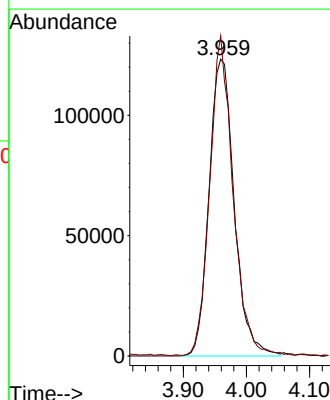
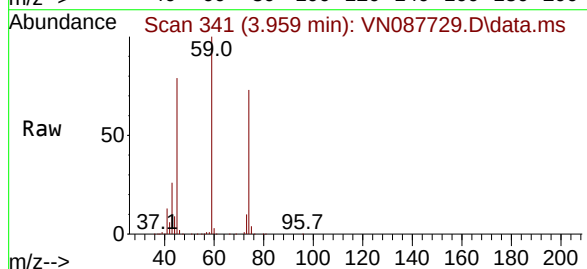
Manual Integrations  
APPROVED

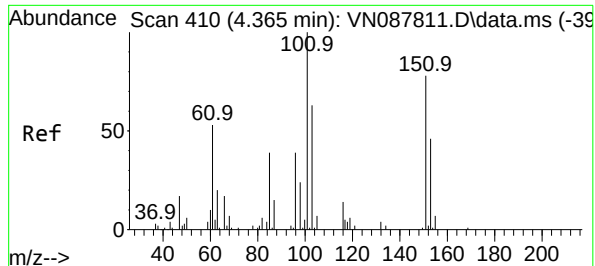
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#8  
Diethyl Ether  
Concen: 168.693 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 74 Resp: 341803  
Ion Ratio Lower Upper  
74 100  
45 98.5 20.4 183.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 166.217 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.012 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion:101 Resp: 42232

Ion Ratio Lower Upper

101 100

85 45.7 0.0 95.6

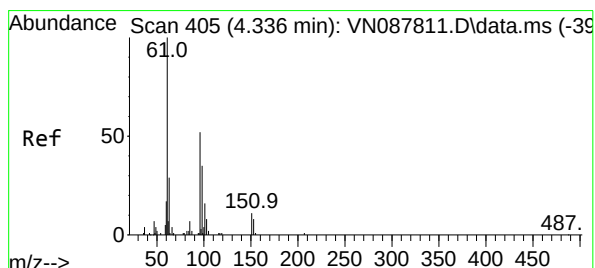
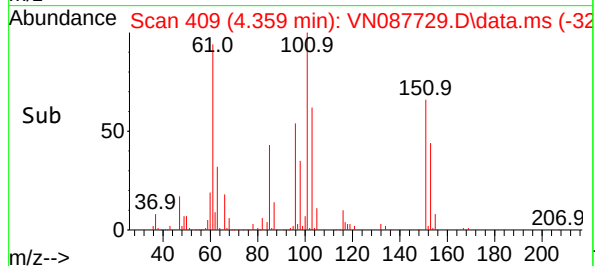
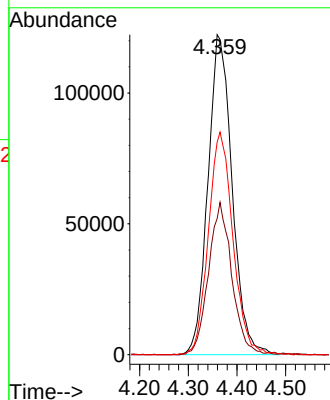
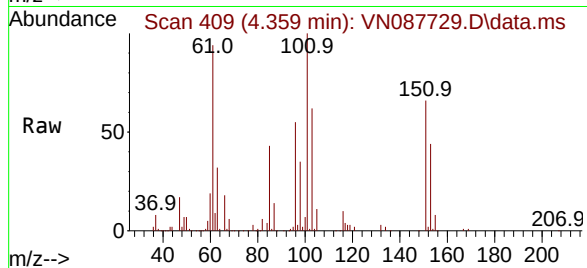
151 70.3 0.0 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 171.802 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

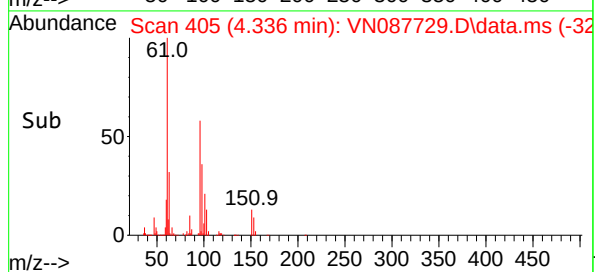
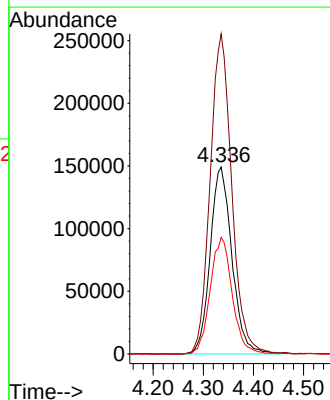
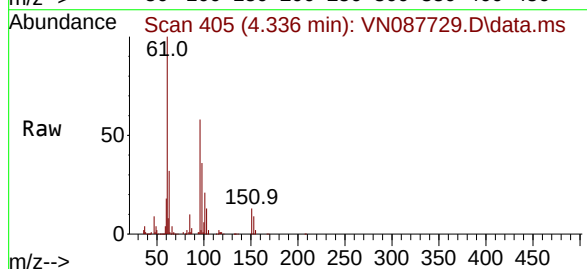
Tgt Ion: 96 Resp: 449863

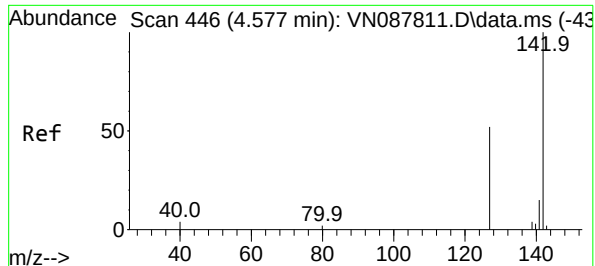
Ion Ratio Lower Upper

96 100

61 171.2 135.9 203.9

98 62.3 59.2 88.8





#11

Methyl Iodide

Concen: 205.284 ug/l

RT: 4.577 min Scan# 446

Delta R.T. -0.006 min

Lab File: VN087729.D

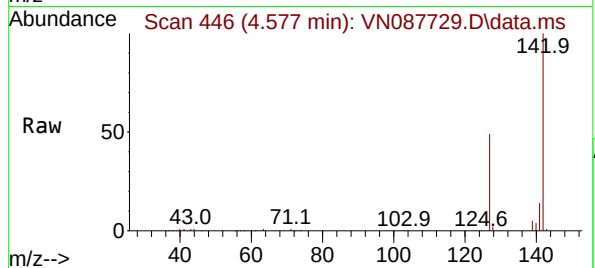
Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150



Tgt Ion:142 Resp: 421989

Ion Ratio Lower Upper

142 100

127 48.5 27.9 83.7

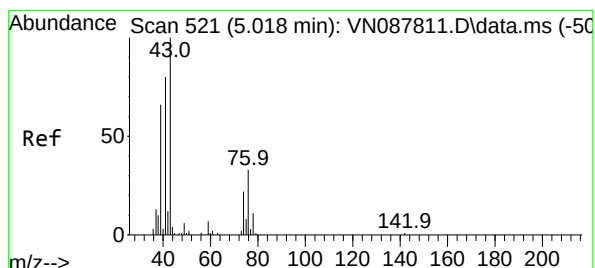
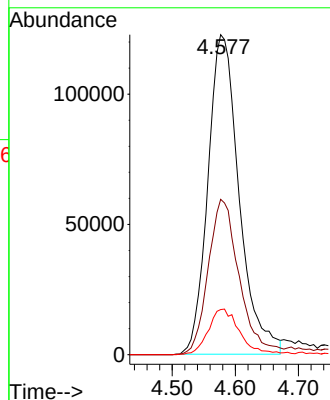
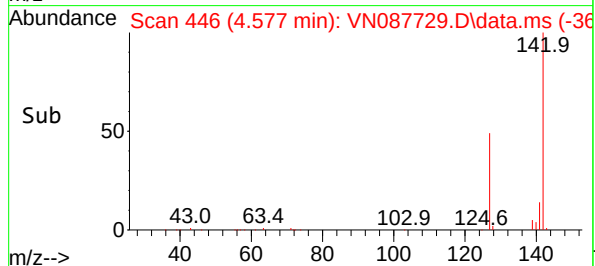
141 14.1 9.6 28.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 152.583 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087729.D

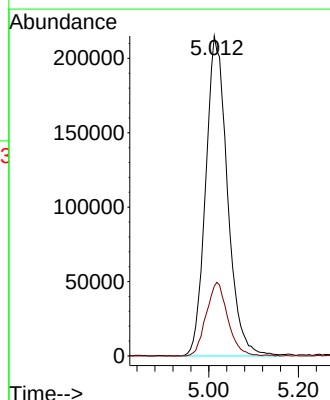
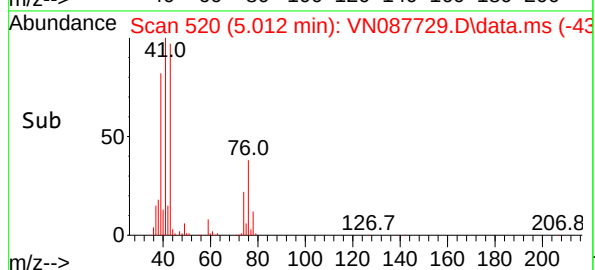
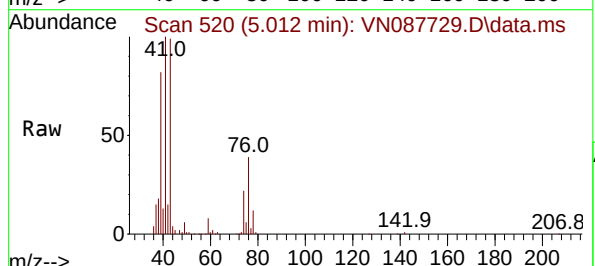
Acq: 04 Sep 2025 17:46

Tgt Ion: 43 Resp: 724097

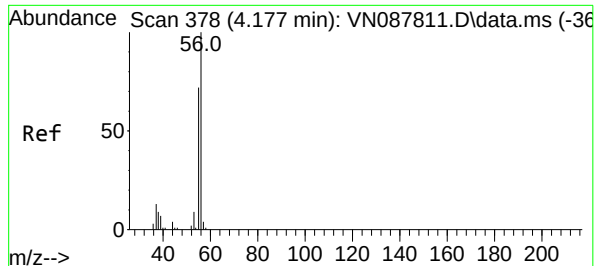
Ion Ratio Lower Upper

43 100

74 21.8 17.5 26.3







#13

Acrolein

Concen: 849.771 ug/l m

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 630478

Ion Ratio Lower Upper

56 100

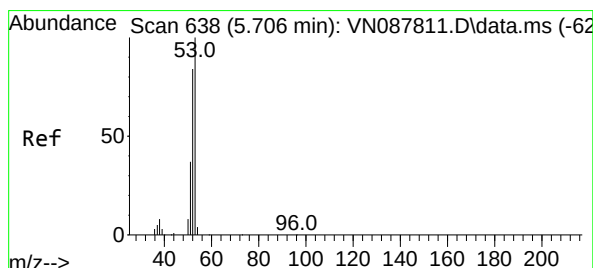
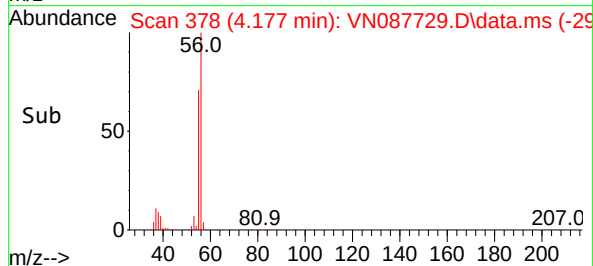
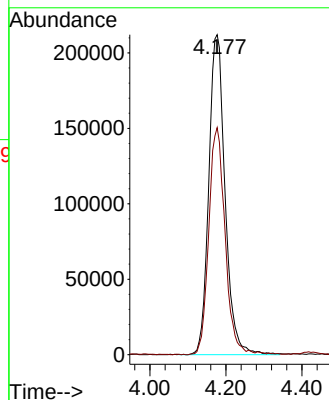
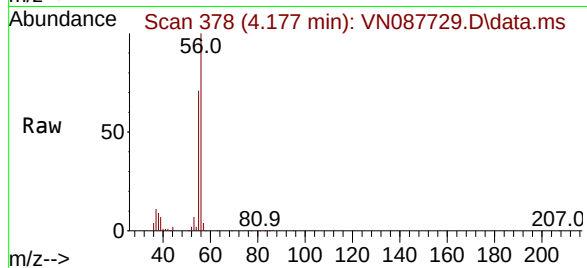
55 0.1 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 749.724 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.012 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

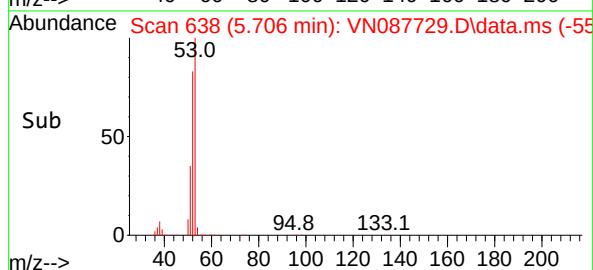
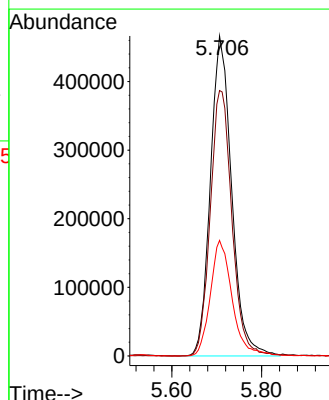
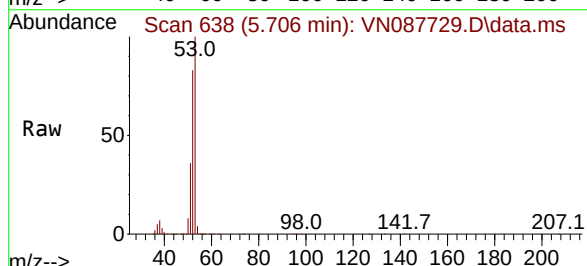
Tgt Ion: 53 Resp: 1538968

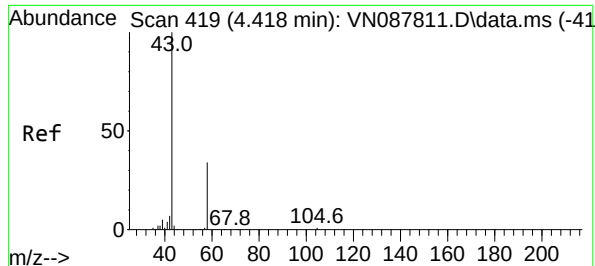
Ion Ratio Lower Upper

53 100

52 84.3 40.9 122.7

51 37.0 18.1 54.1





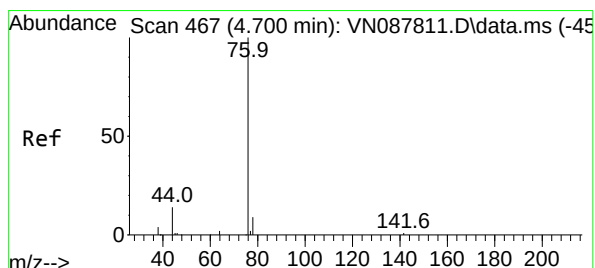
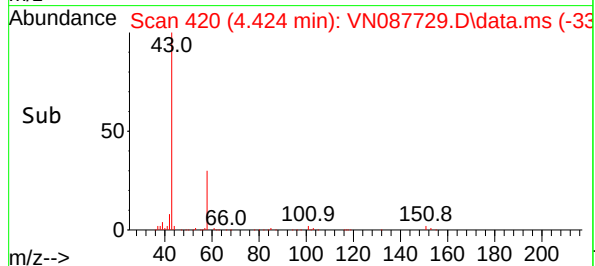
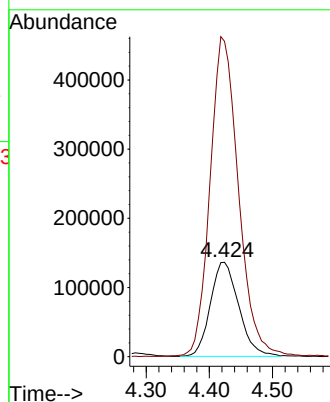
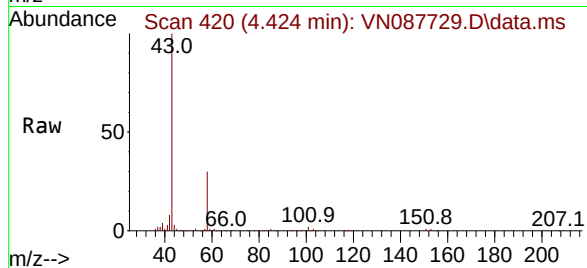
#15  
Acetone  
Concen: 730.123 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion: 58 Resp: 425162  
Ion Ratio Lower Upper  
58 100  
43 333.3 250.6 376.0

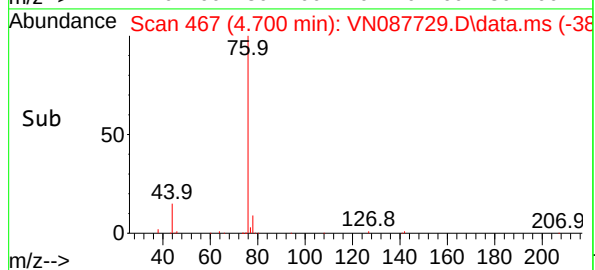
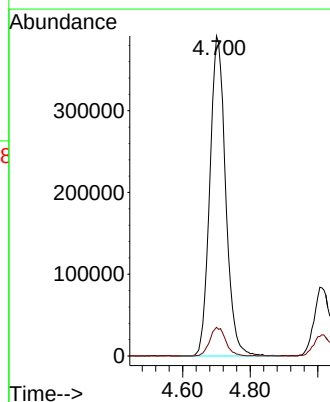
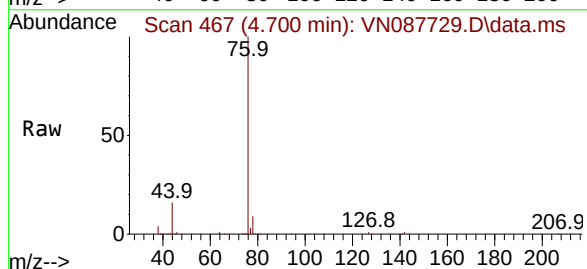
Manual Integrations  
APPROVED

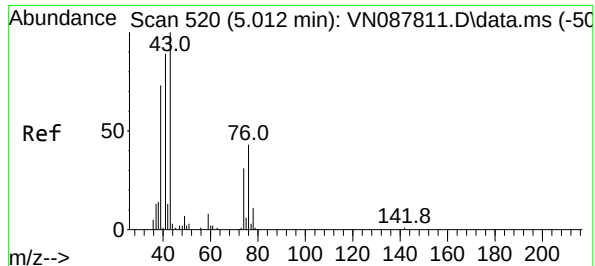
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#16  
Carbon Disulfide  
Concen: 158.737 ug/l m  
RT: 4.700 min Scan# 467  
Delta R.T. -0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 76 Resp: 1271777  
Ion Ratio Lower Upper  
76 100  
78 9.0 5.0 7.6#





#17

Allyl chloride

Concen: 148.357 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 76674

Ion Ratio Lower Upper

41 100

39 81.7 36.7 110.1

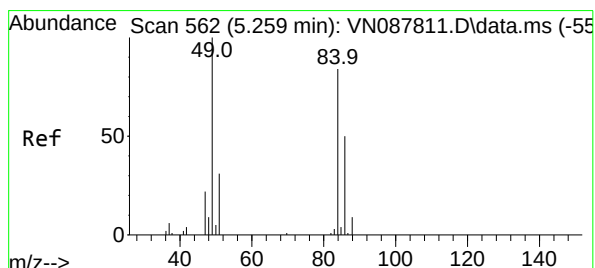
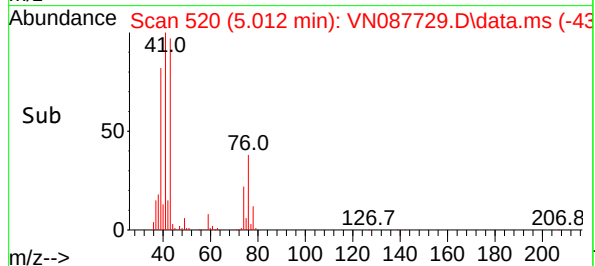
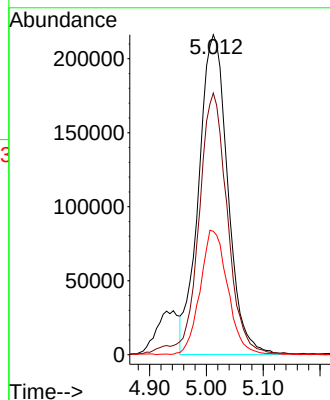
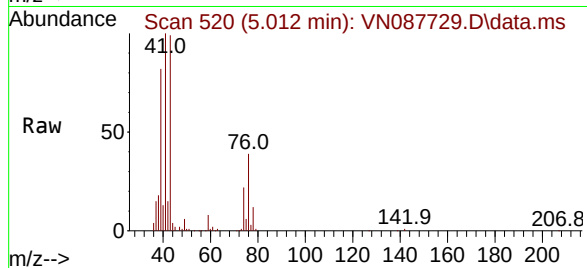
76 38.5 18.3 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 153.709 ug/l

RT: 5.259 min Scan# 562

Delta R.T. -0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Tgt Ion: 84 Resp: 507725

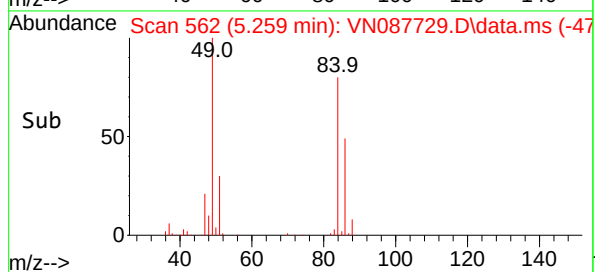
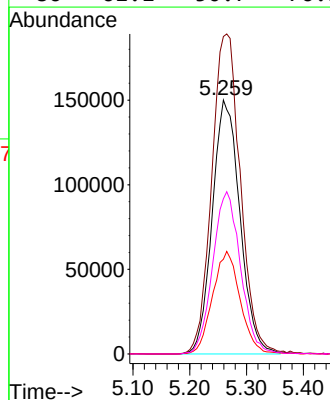
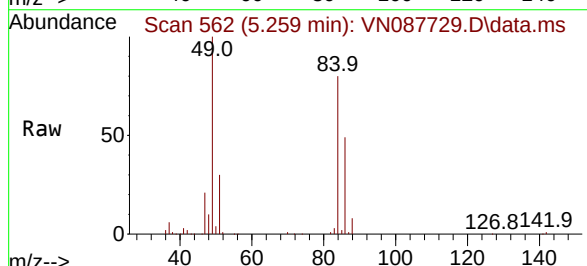
Ion Ratio Lower Upper

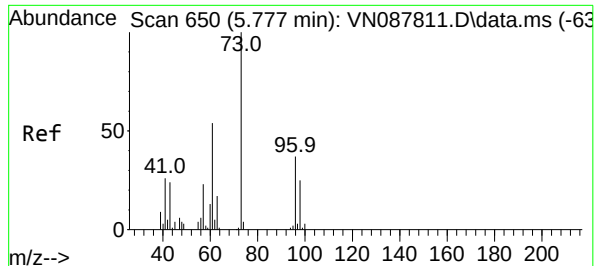
84 100

49 124.9 114.1 171.1

51 37.3 30.2 45.4

86 61.1 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 156.377 ug/l

RT: 5.771 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN087729.D

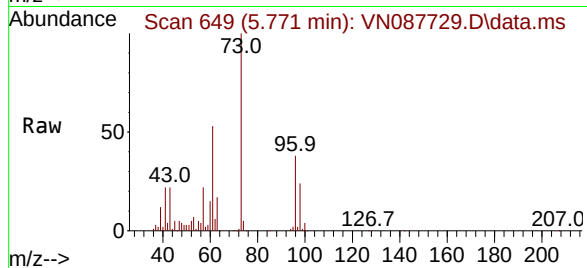
Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

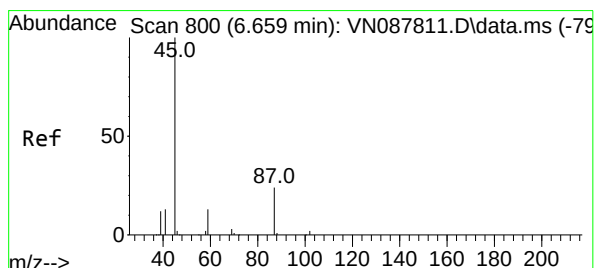
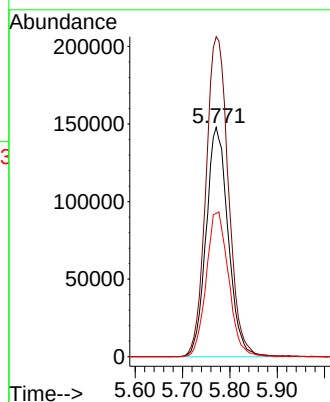
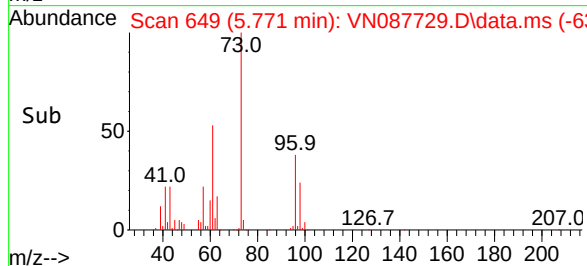


| Tgt Ion: | 96    | Resp: | 47795 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 139.5 | 106.4 | 159.6 |
| 98       | 62.5  | 48.9  | 73.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

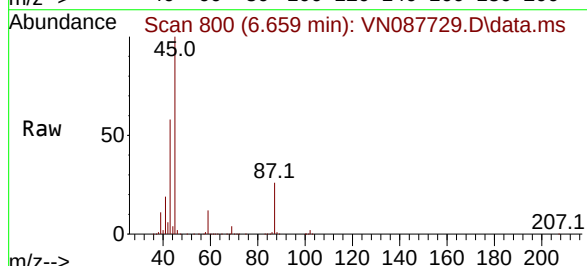
Concen: 152.305 ug/l

RT: 6.659 min Scan# 800

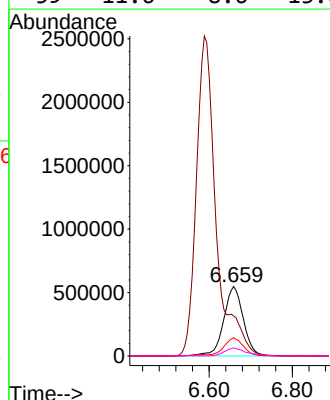
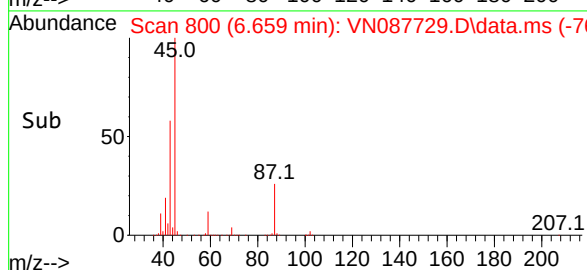
Delta R.T. -0.000 min

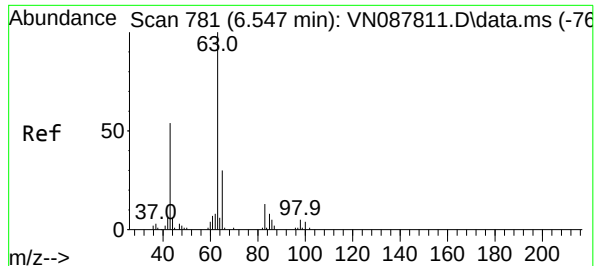
Lab File: VN087729.D

Acq: 04 Sep 2025 17:46



| Tgt Ion: | 45    | Resp: | 1793426 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 45       | 100   |       |         |
| 43       | 57.1  | 49.5  | 74.3    |
| 87       | 26.1  | 18.8  | 28.2    |
| 59       | 11.6  | 8.6   | 13.0    |





#21

1,1-Dichloroethane

Concen: 152.104 ug/l

RT: 6.553 min Scan# 781

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

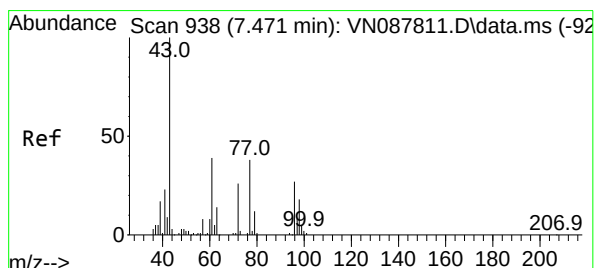
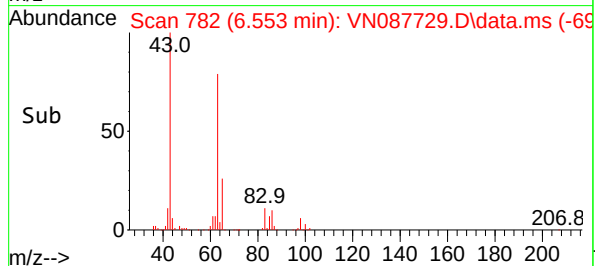
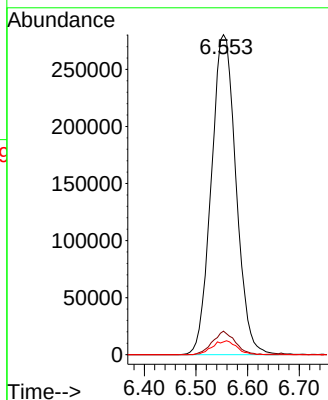
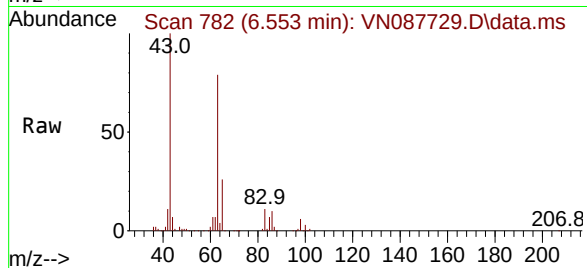
VSTDICC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 931404 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 7.4   | 2.9   | 8.8    |
| 100      | 4.0   | 1.8   | 5.3    |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 156.802 ug/l

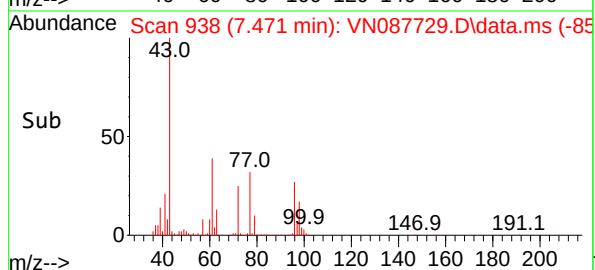
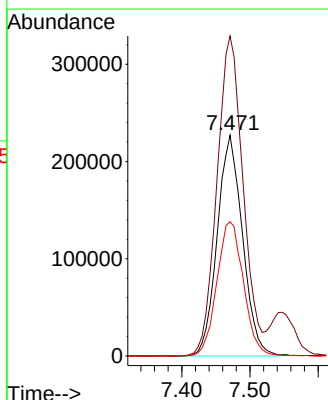
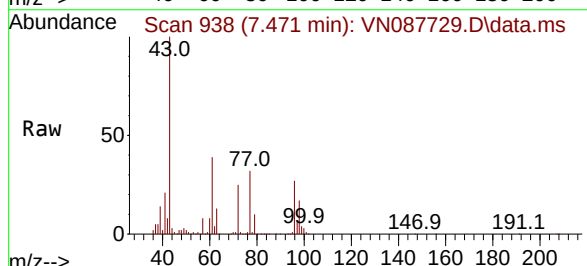
RT: 7.471 min Scan# 938

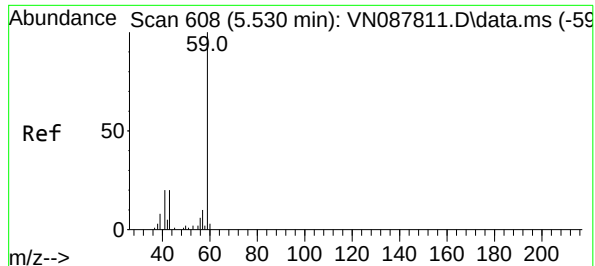
Delta R.T. 0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 586326 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 149.1 | 118.2 | 177.2  |
| 98       | 63.7  | 51.6  | 77.4   |





#23

tert-Butyl Alcohol

Concen: 639.163 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 59 Resp: 54538

Ion Ratio Lower Upper

59 100

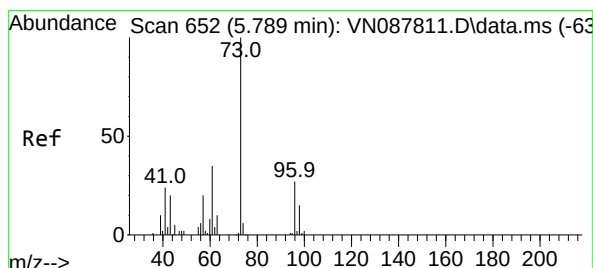
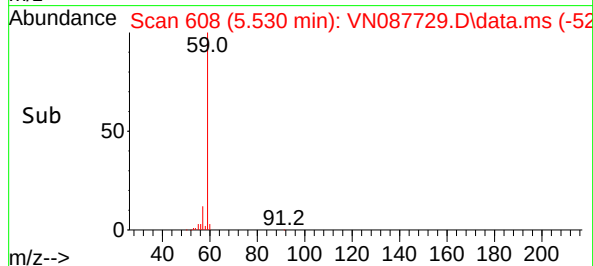
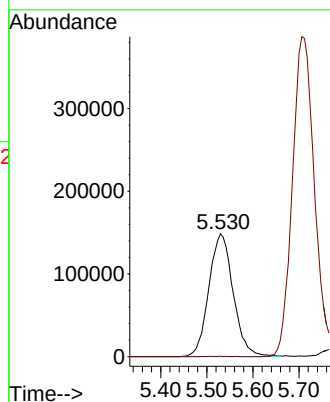
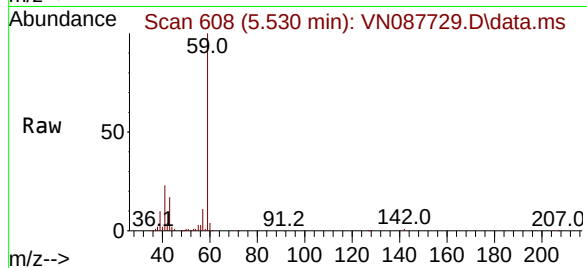
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#24

Methyl tert-Butyl Ether

Concen: 151.610 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087729.D

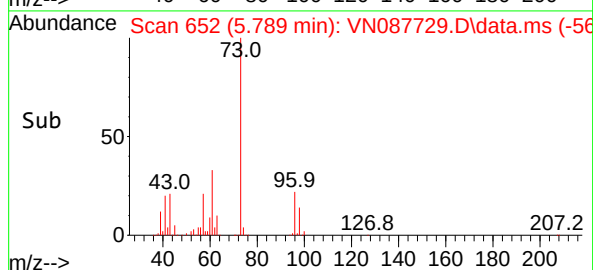
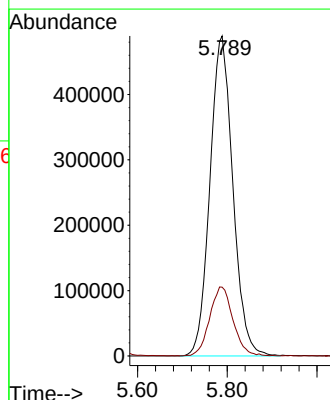
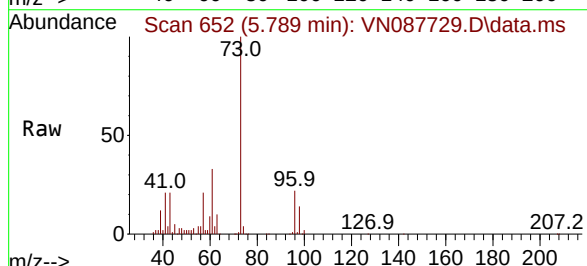
Acq: 04 Sep 2025 17:46

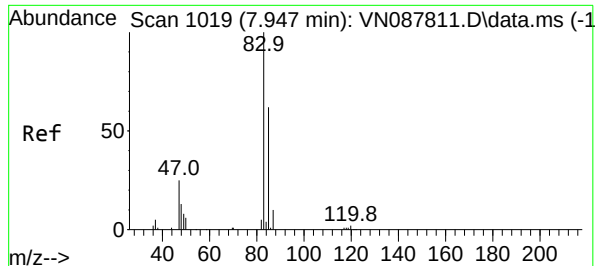
Tgt Ion: 73 Resp: 1739496

Ion Ratio Lower Upper

73 100

43 21.9 16.8 25.2





#25

Chloroform

Concen: 152.526 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 983285

Ion Ratio Lower Upper

83 100

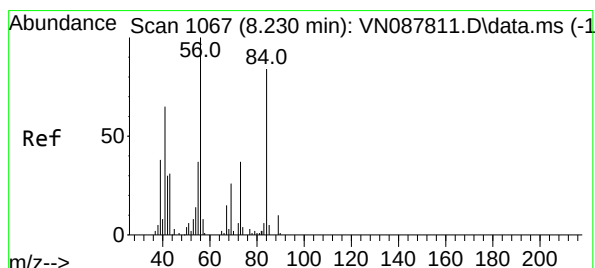
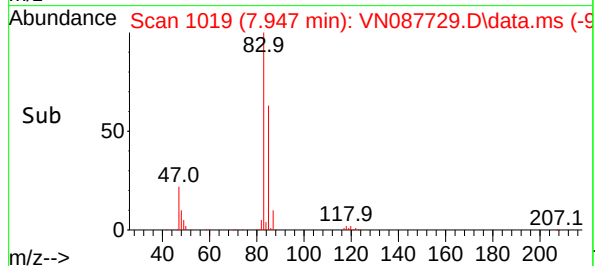
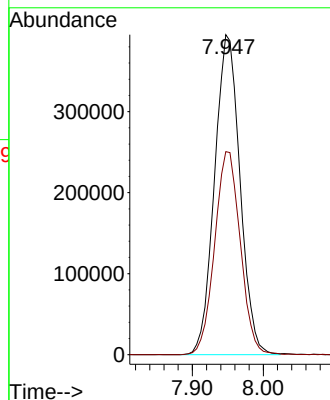
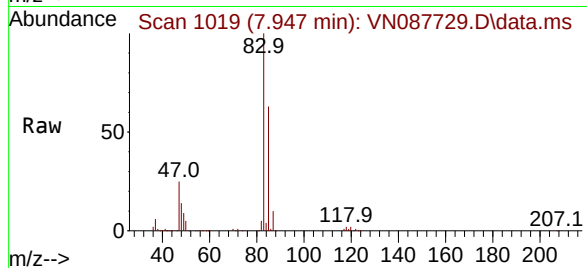
85 63.4 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 150.164 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

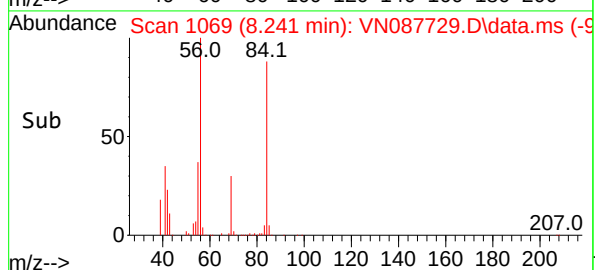
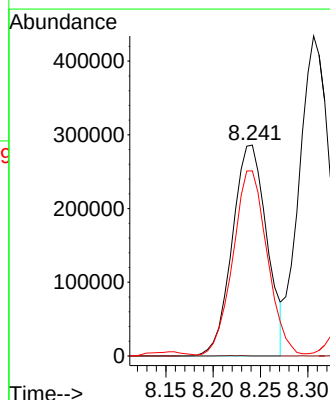
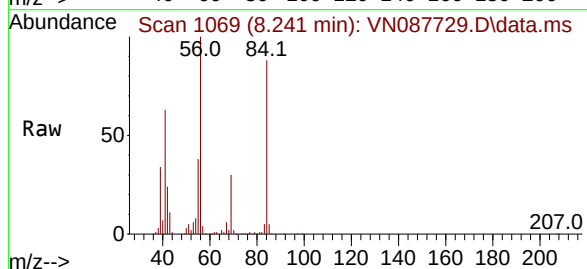
Tgt Ion: 56 Resp: 727166

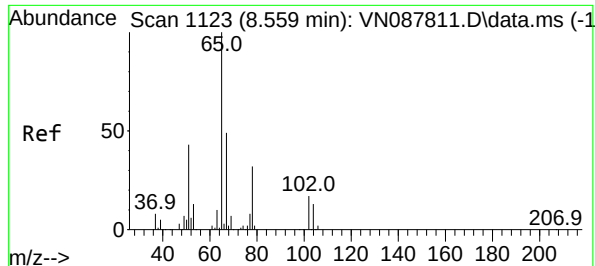
Ion Ratio Lower Upper

56 100

89 0.1 0.0 0.0#

84 87.6 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 28.682 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 12585

Ion Ratio Lower Upper

65 100

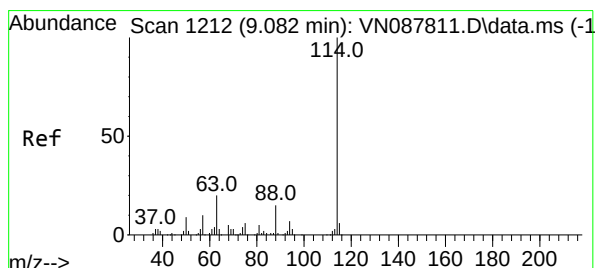
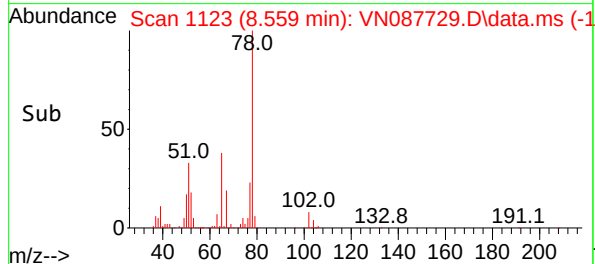
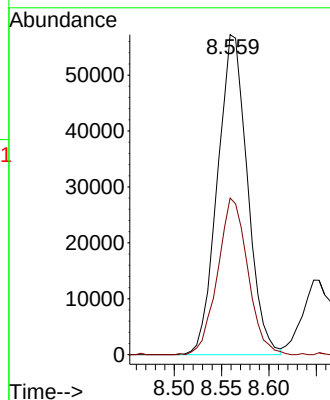
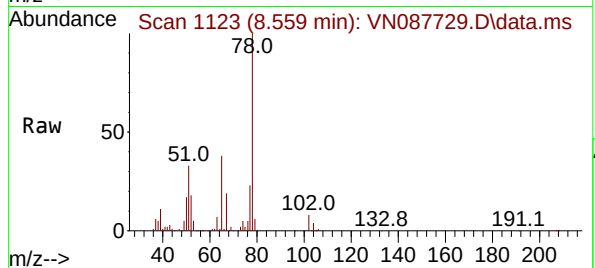
67 49.2 39.6 59.4

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: VN087729.D

Acq: 04 Sep 2025 17:46

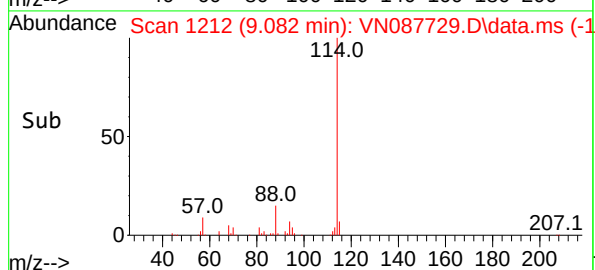
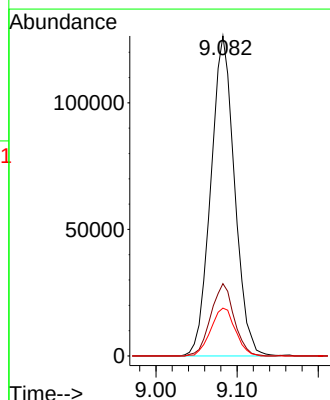
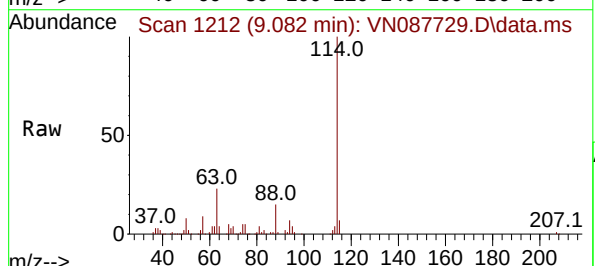
Tgt Ion:114 Resp: 256987

Ion Ratio Lower Upper

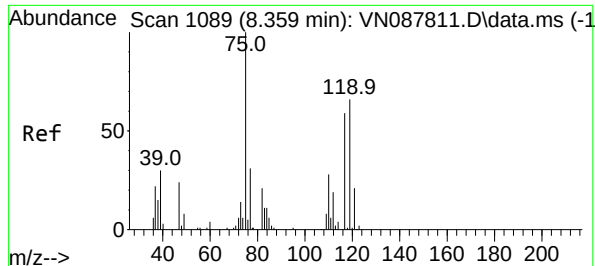
114 100

63 22.2 18.3 27.5

88 15.5 12.4 18.6







#29

1,1-Dichloropropene

Concen: 157.510 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

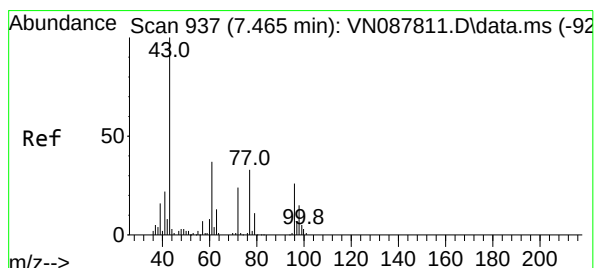
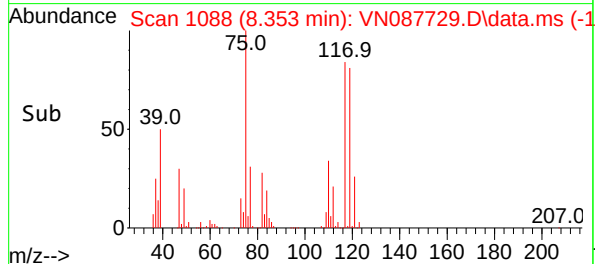
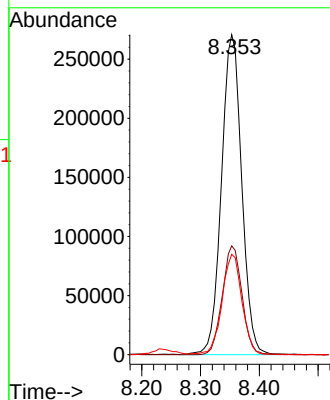
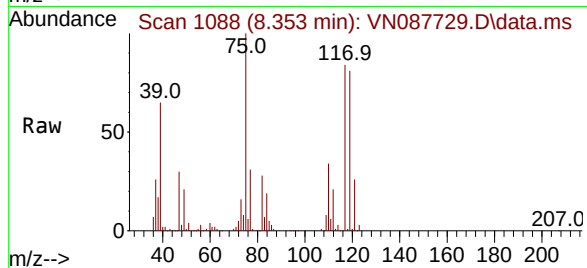
VSTDICC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 648804 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 110      | 32.9  | 0.0   | 64.4   |
| 77       | 30.8  | 0.0   | 62.2   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 736.360 ug/l

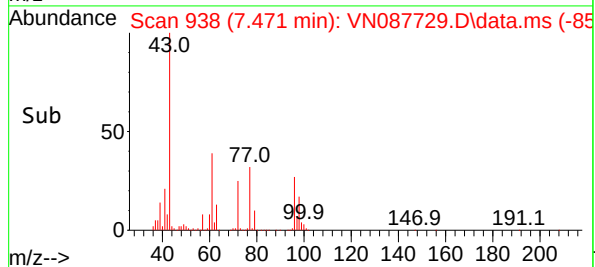
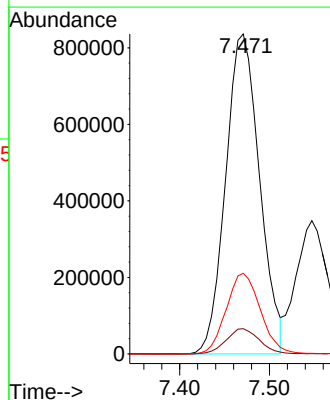
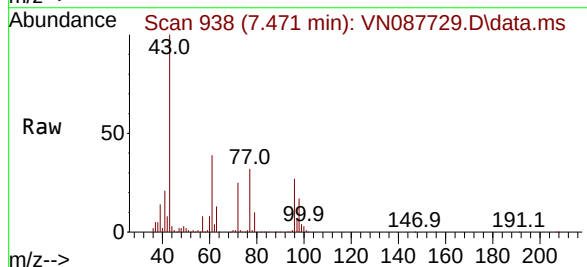
RT: 7.471 min Scan# 938

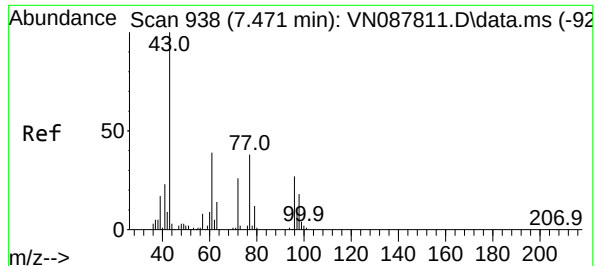
Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 43    | Resp: | 2196856 |
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 57       | 7.7   | 6.3   | 9.5     |
| 72       | 25.5  | 21.4  | 32.2    |





#31

2,2-Dichloropropane

Concen: 151.522 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 77 Resp: 781979

Ion Ratio Lower Upper

77 100

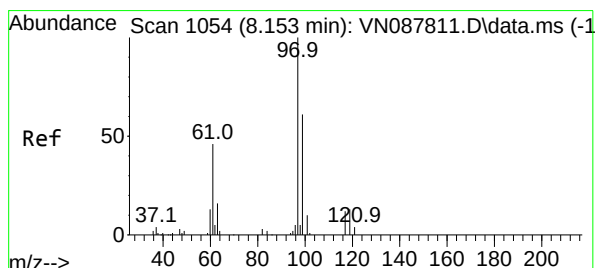
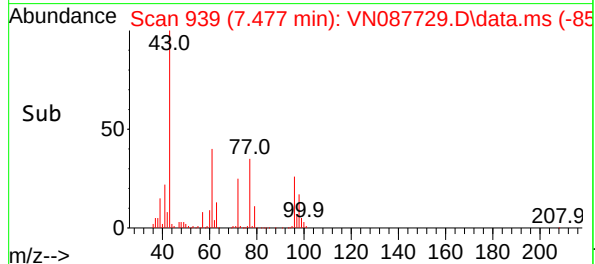
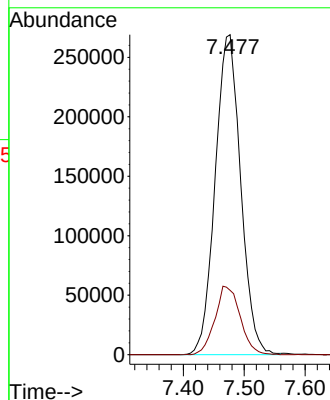
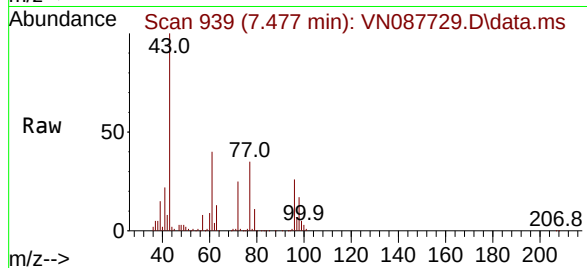
97 21.2 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#32

1,1,1-Trichloroethane

Concen: 152.690 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

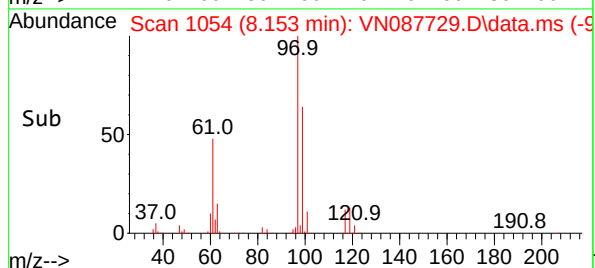
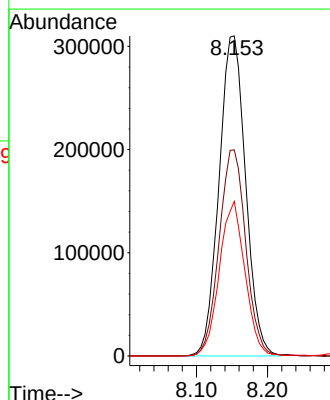
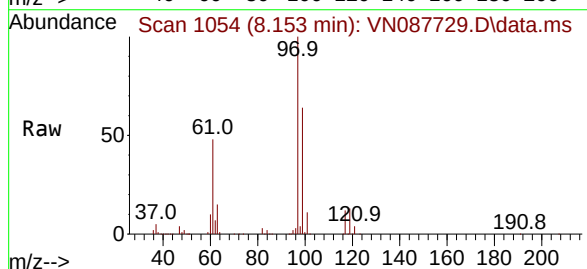
Tgt Ion: 97 Resp: 806677

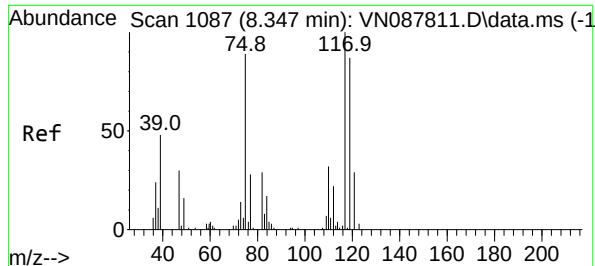
Ion Ratio Lower Upper

97 100

99 64.7 52.2 78.4

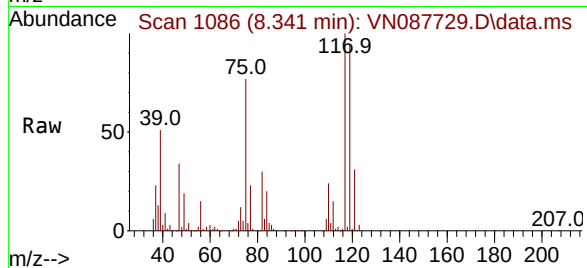
61 46.5 37.9 56.9





#33  
Carbon Tetrachloride  
Concen: 154.283 ug/l  
RT: 8.341 min Scan# 1086  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

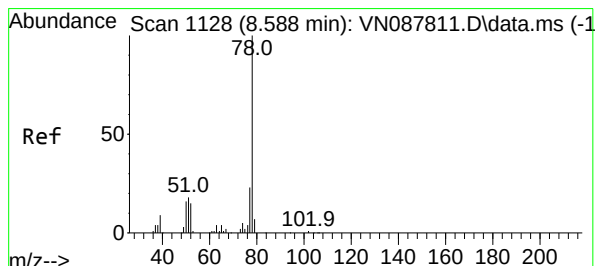
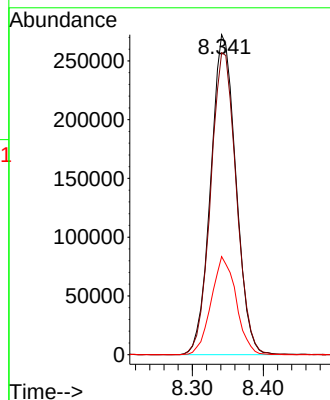
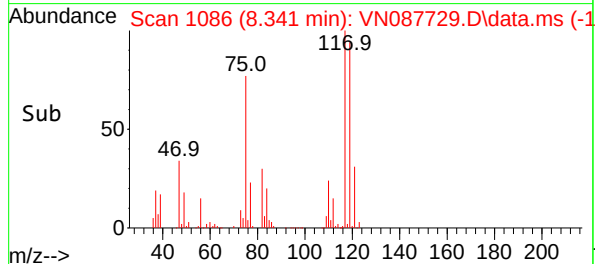
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 117 Resp: 67075  
Ion Ratio Lower Upper  
117 100  
119 94.3 77.3 115.9  
121 30.6 26.6 39.8

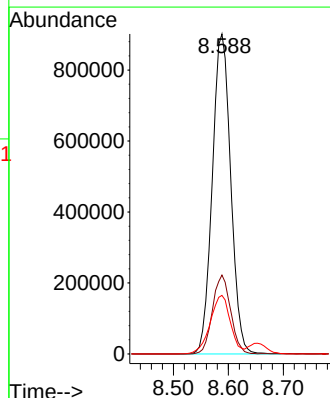
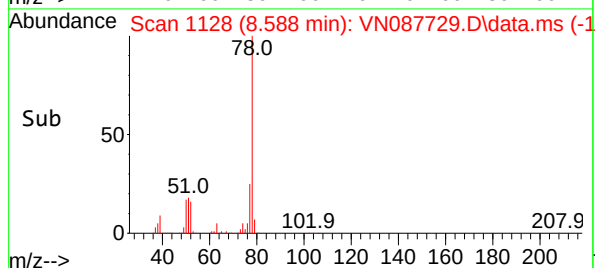
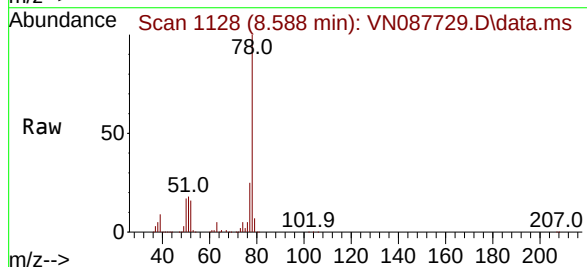
Manual Integrations  
APPROVED

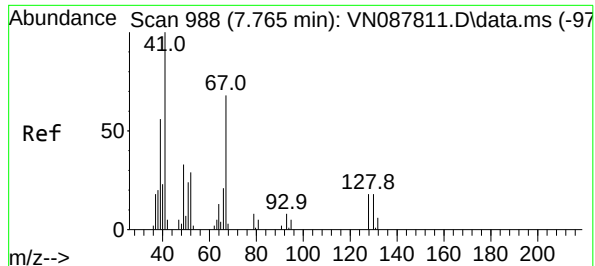
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 160.910 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 78 Resp: 2101924  
Ion Ratio Lower Upper  
78 100  
77 24.7 20.3 30.5  
51 18.2 18.0 27.0





#35

Methacrylonitrile

Concen: 144.552 ug/l

RT: 7.759 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 41 Resp: 46847

Ion Ratio Lower Upper

41 100

39 55.7 27.1 81.2

67 66.2 32.1 96.5

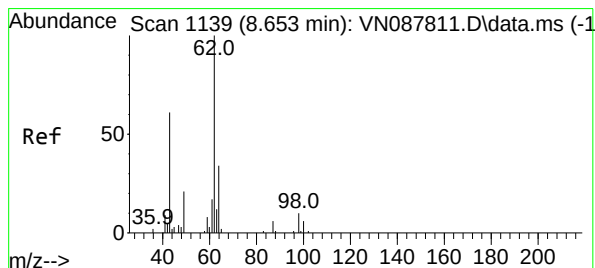
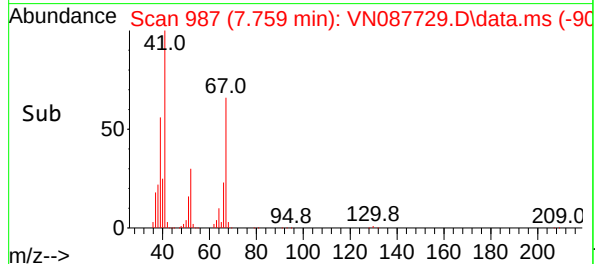
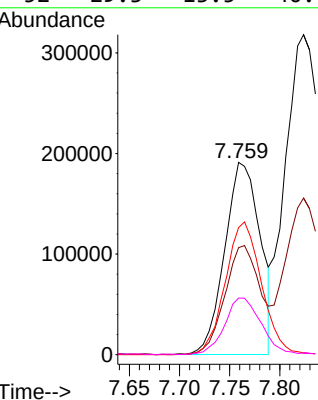
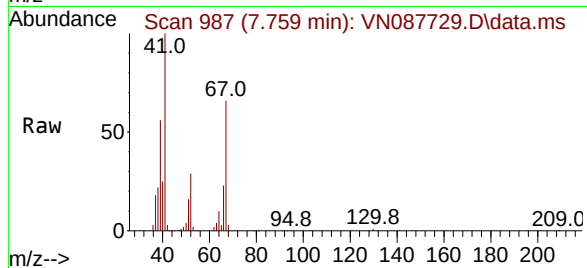
52 29.3 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 147.988 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087729.D

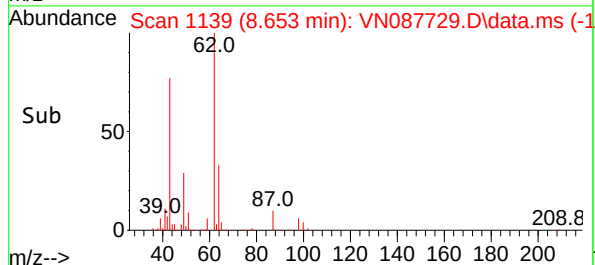
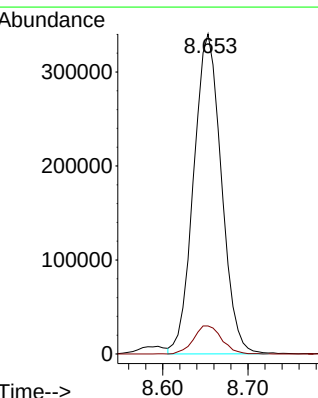
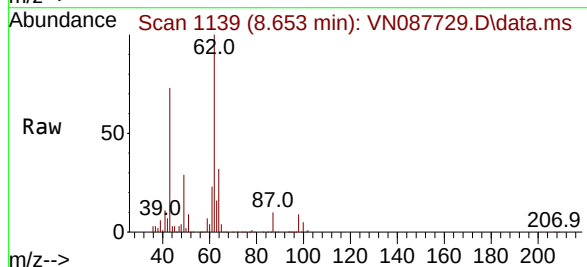
Acq: 04 Sep 2025 17:46

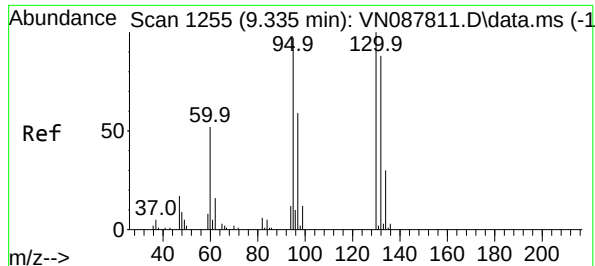
Tgt Ion: 62 Resp: 770632

Ion Ratio Lower Upper

62 100

98 8.9 7.2 10.8





#37

Trichloroethene

Concen: 159.355 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion:130 Resp: 45841

Ion Ratio Lower Upper

130 100

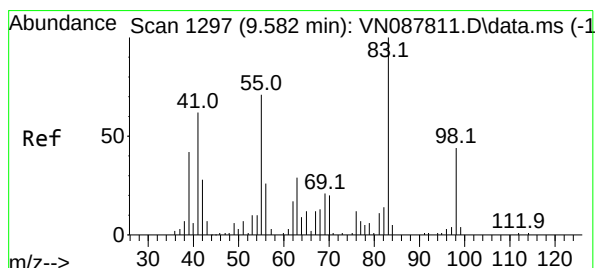
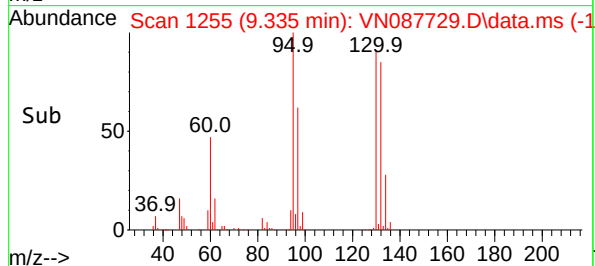
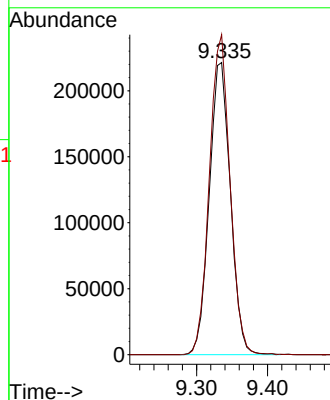
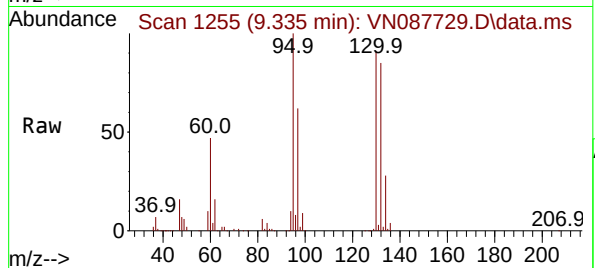
95 109.5 82.7 124.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#38

Methylcyclohexane

Concen: 149.907 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

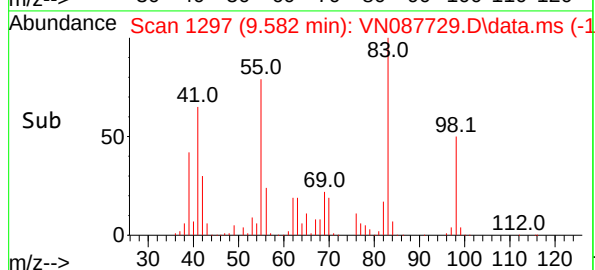
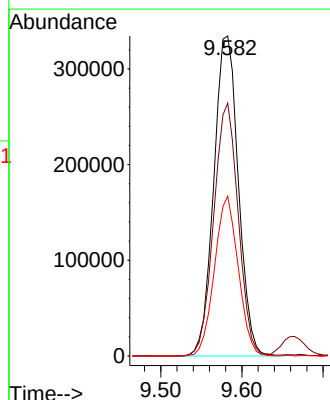
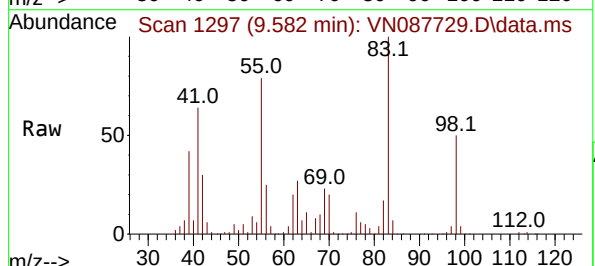
Tgt Ion: 83 Resp: 704436

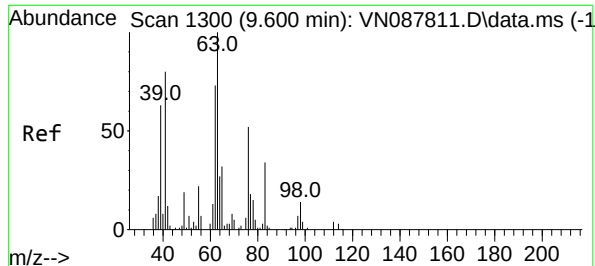
Ion Ratio Lower Upper

83 100

55 78.6 40.4 121.1

98 48.2 24.0 72.0





#39

1,2-Dichloropropane

Concen: 159.192 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 532904

Ion Ratio Lower Upper

63 100

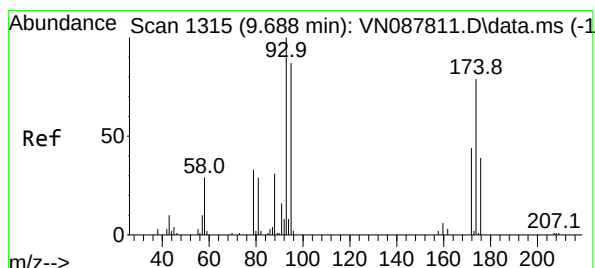
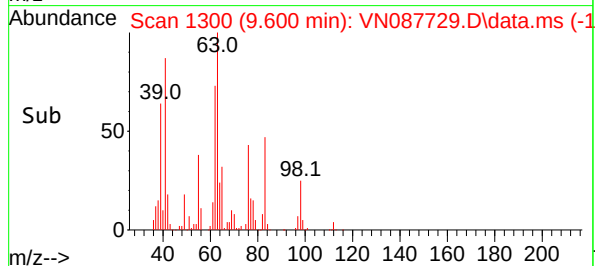
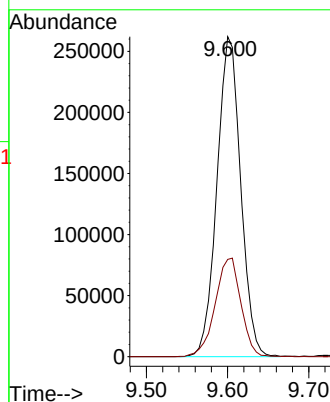
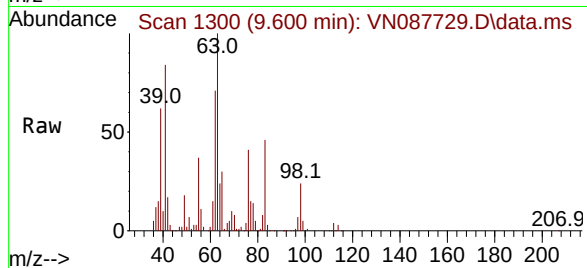
65 30.3 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 155.837 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

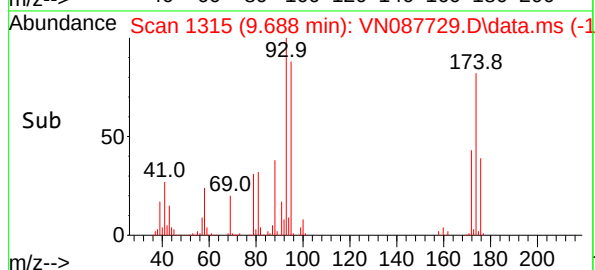
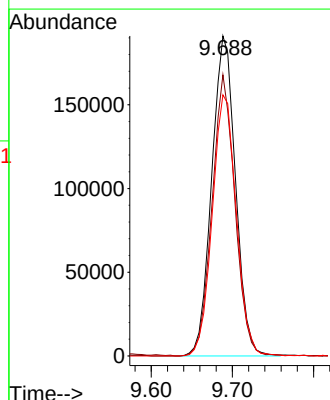
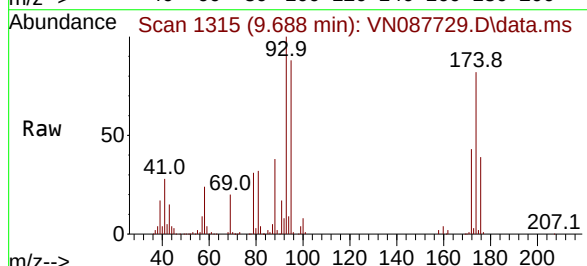
Tgt Ion: 93 Resp: 390063

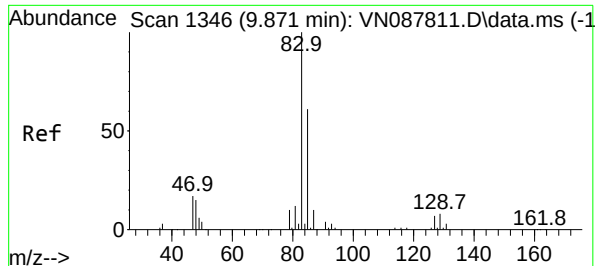
Ion Ratio Lower Upper

93 100

95 84.4 0.0 168.4

174 82.4 0.0 162.8





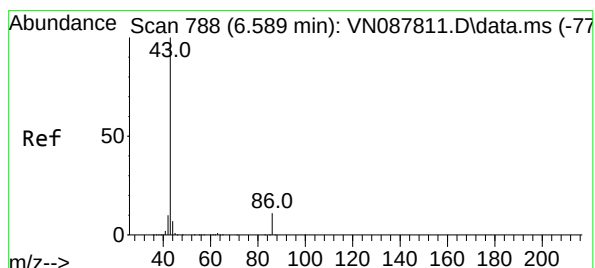
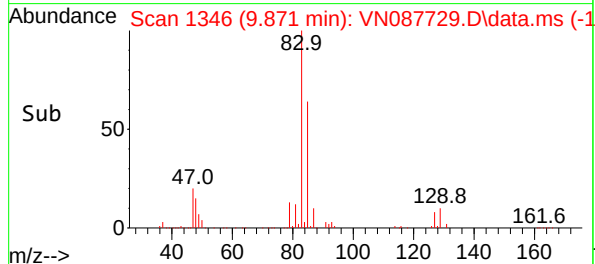
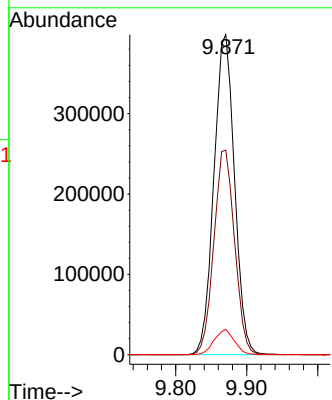
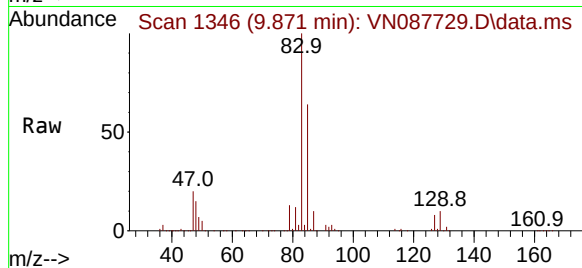
#41  
Bromodichloromethane  
Concen: 153.294 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion: 83 Resp: 801260  
Ion Ratio Lower Upper  
83 100  
85 63.9 47.3 70.9  
127 7.9 5.2 7.8

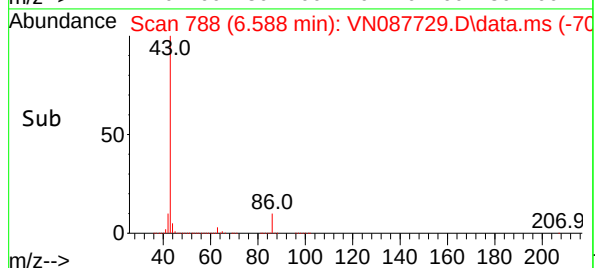
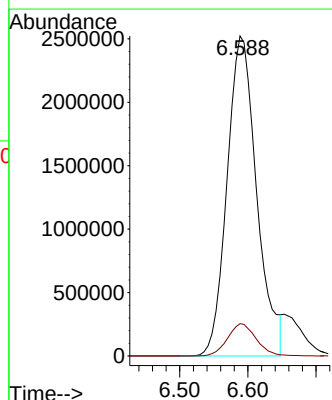
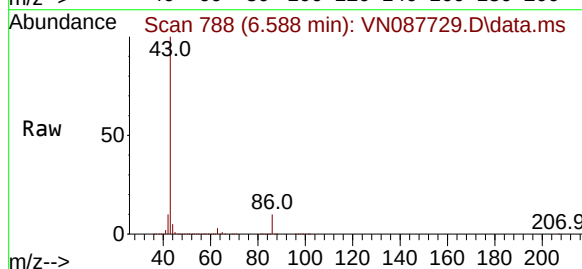
Manual Integrations  
APPROVED

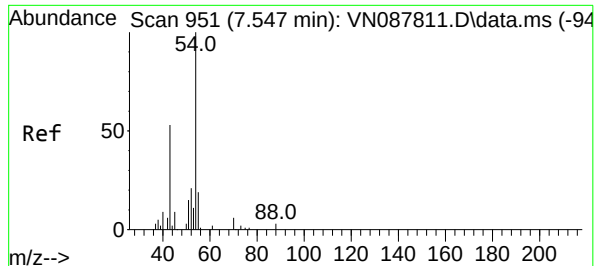
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42  
Vinyl Acetate  
Concen: 776.186 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 43 Resp: 7618340  
Ion Ratio Lower Upper  
43 100  
86 9.8 7.7 11.5





#43

Ethyl Acetate

Concen: 153.686 ug/l

RT: 7.547 min Scan# 90

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 903610

Ion Ratio Lower Upper

43 100

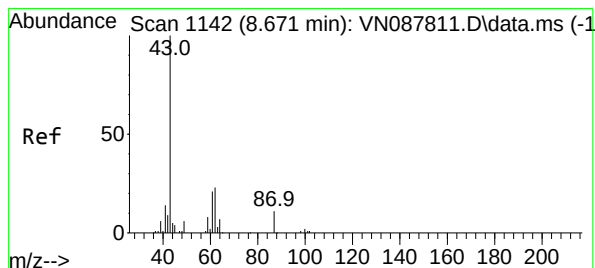
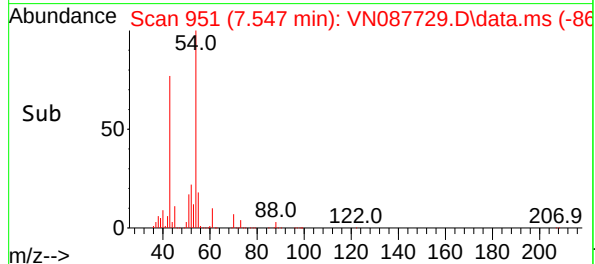
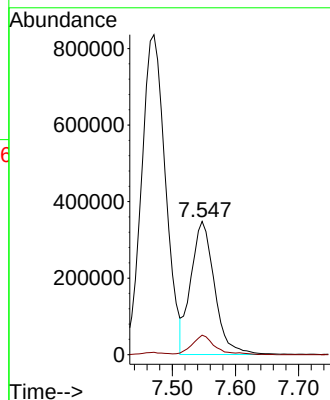
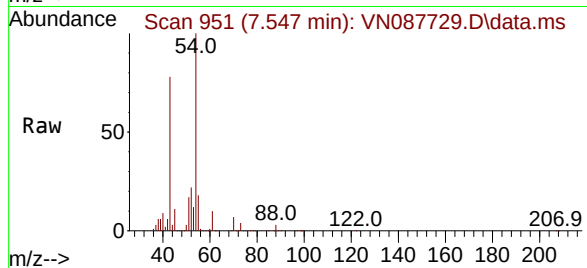
45 12.1 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 149.330 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087729.D

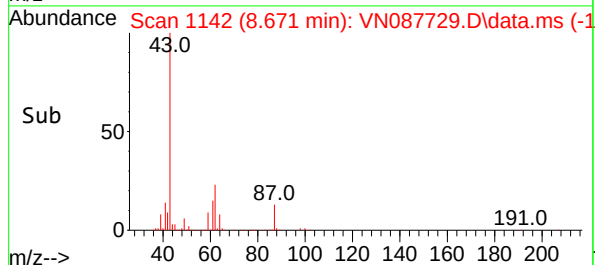
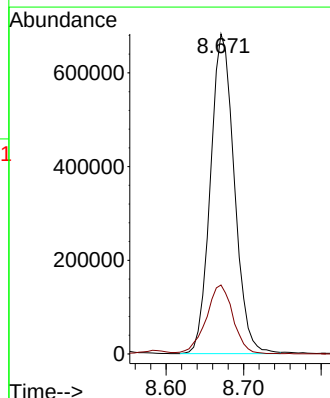
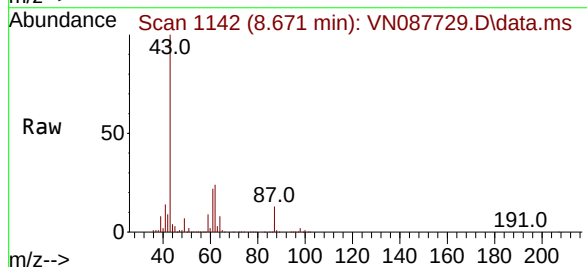
Acq: 04 Sep 2025 17:46

Tgt Ion: 43 Resp: 1460618

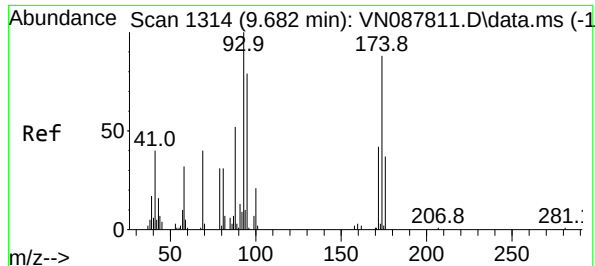
Ion Ratio Lower Upper

43 100

61 24.4 19.5 29.3







#45

1,4-Dioxane

Concen: 3001.771 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 88 Resp: 187970

Ion Ratio Lower Upper

88 100

43 22.4 23.6 35.4

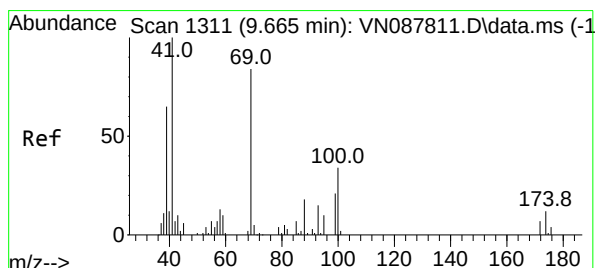
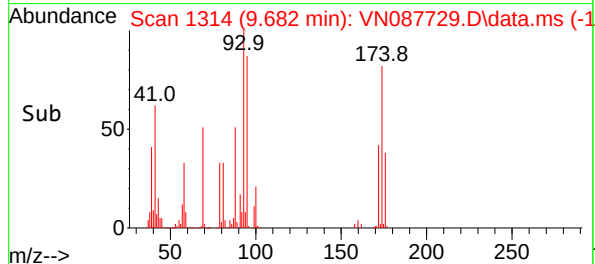
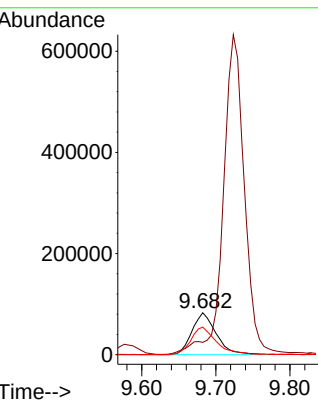
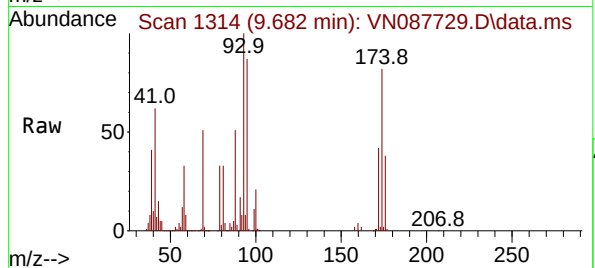
58 69.0 60.5 90.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 146.351 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

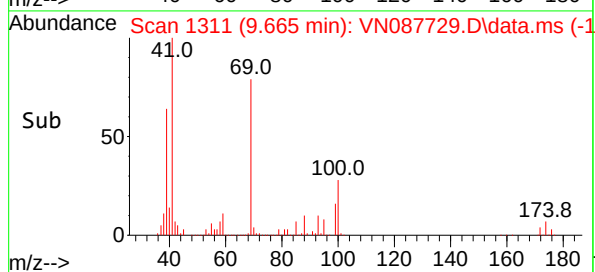
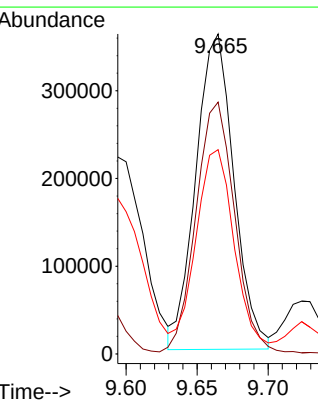
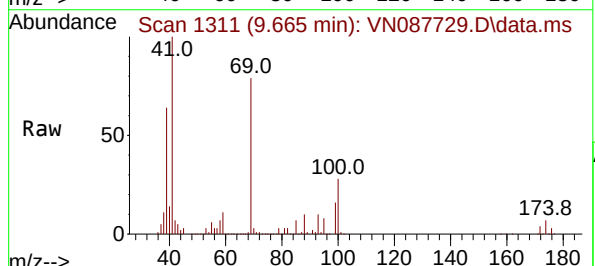
Tgt Ion: 41 Resp: 670040

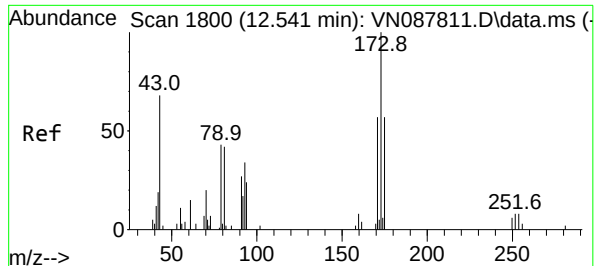
Ion Ratio Lower Upper

41 100

69 80.7 40.3 120.9

39 63.7 31.9 95.9





#47

n-amyl acetate

Concen: 184.337 ug/l m

RT: 12.482 min Scan# 1

Delta R.T. -0.188 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 1048330

Ion Ratio Lower Upper

43 100

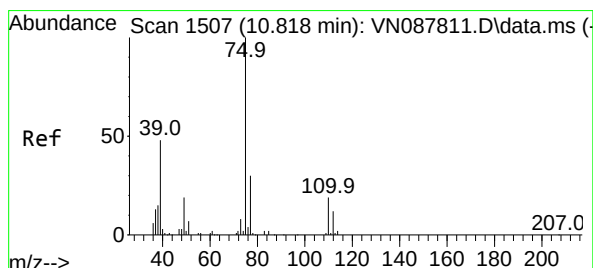
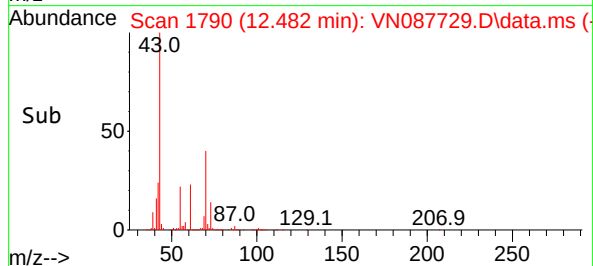
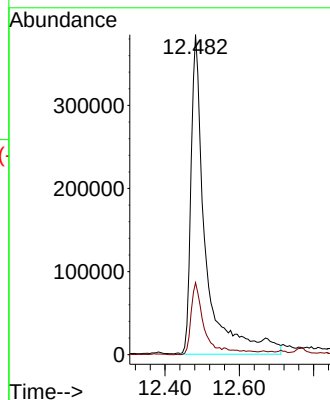
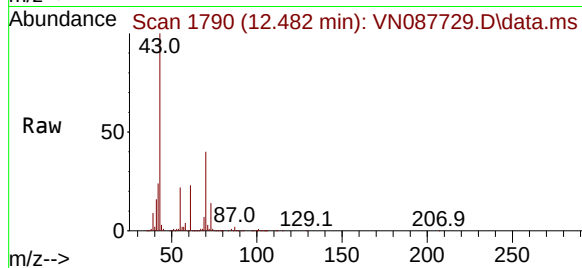
55 0.1 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 158.851 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087729.D

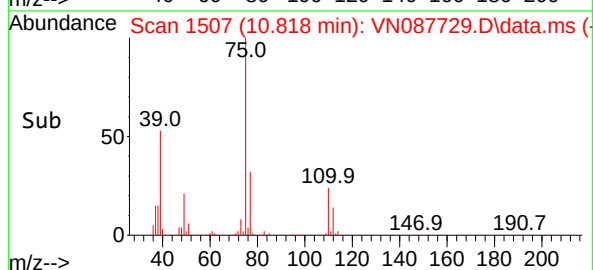
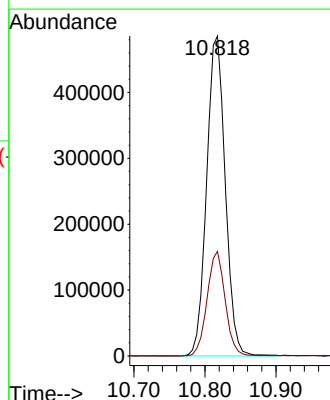
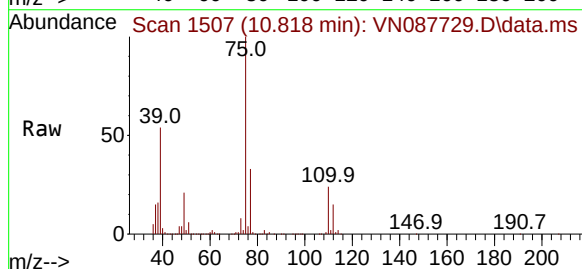
Acq: 04 Sep 2025 17:46

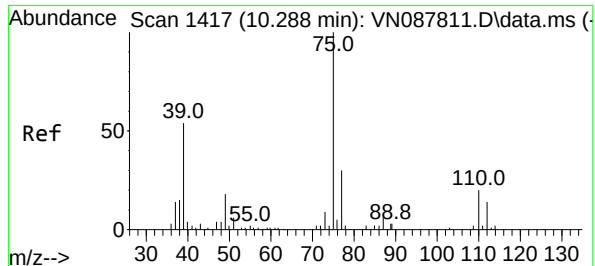
Tgt Ion: 75 Resp: 885111

Ion Ratio Lower Upper

75 100

77 32.7 24.7 37.1





#49

cis-1,3-Dichloropropene

Concen: 160.315 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 901540

Ion Ratio Lower Upper

75 100

77 31.3 27.8 41.6

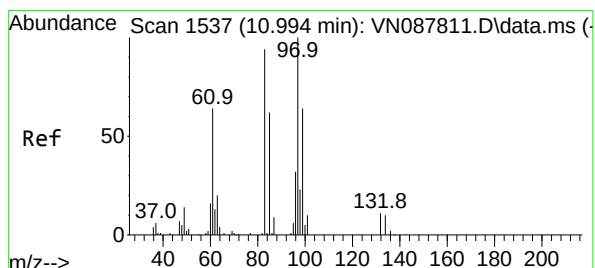
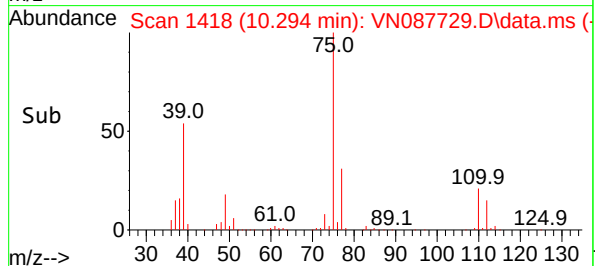
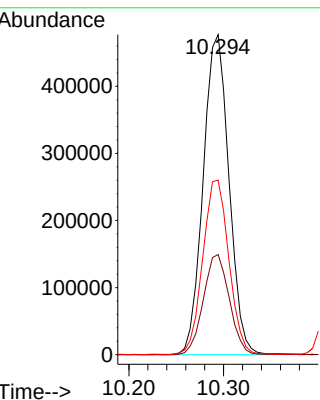
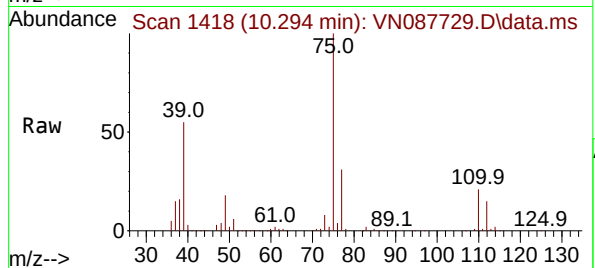
39 54.5 47.6 71.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 160.824 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Tgt Ion: 97 Resp: 511317

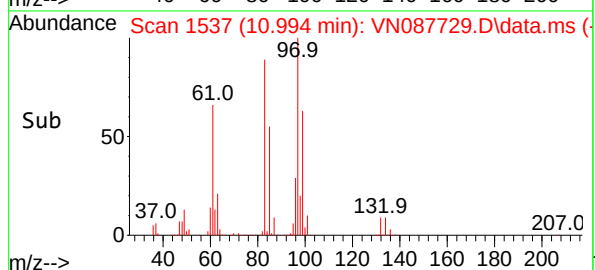
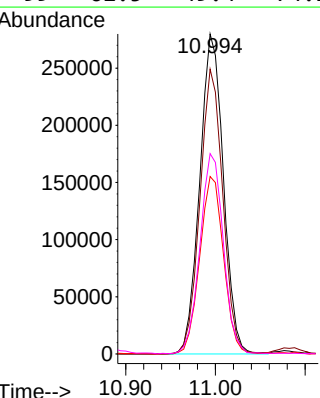
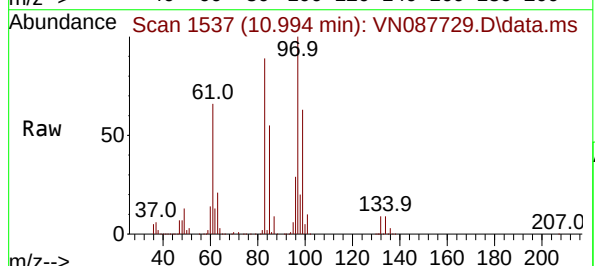
Ion Ratio Lower Upper

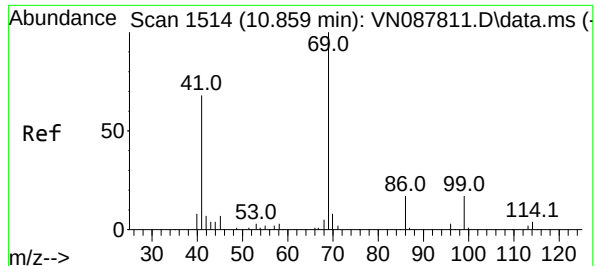
97 100

83 89.0 70.5 105.7

85 55.4 46.3 69.5

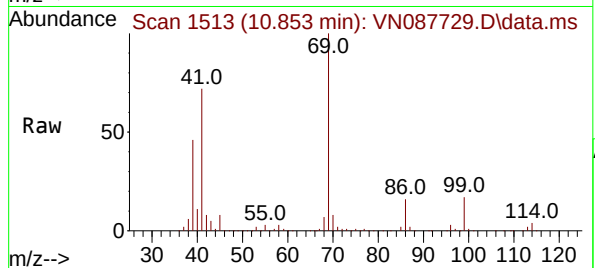
99 62.5 49.4 74.2





#51  
Ethyl methacrylate  
Concen: 167.159 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

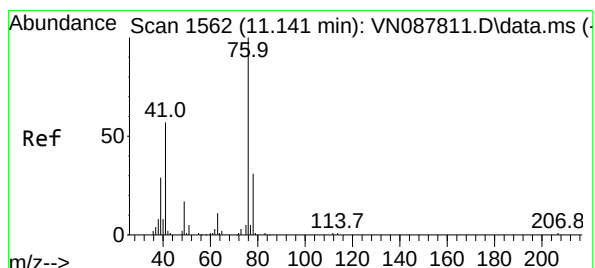
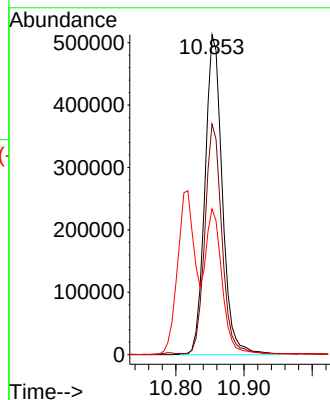
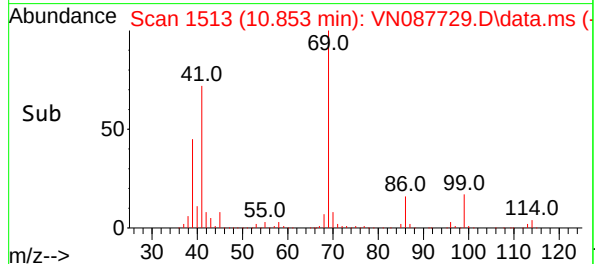
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 69 Resp: 90683  
Ion Ratio Lower Upper  
69 100  
41 71.7 33.7 101.0  
39 45.3 20.3 60.9

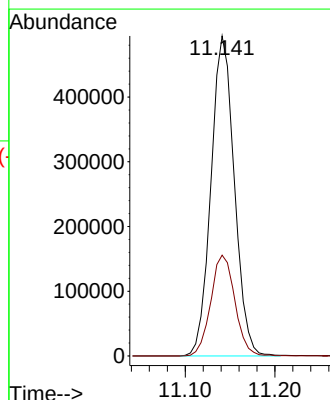
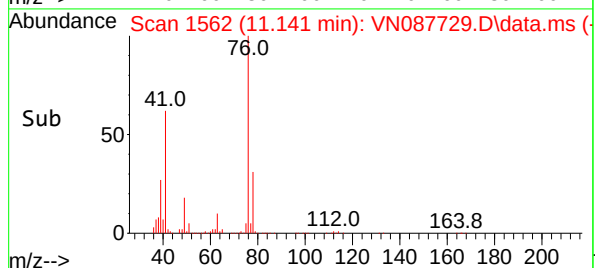
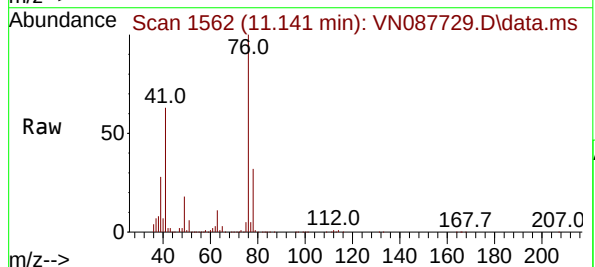
Manual Integrations  
APPROVED

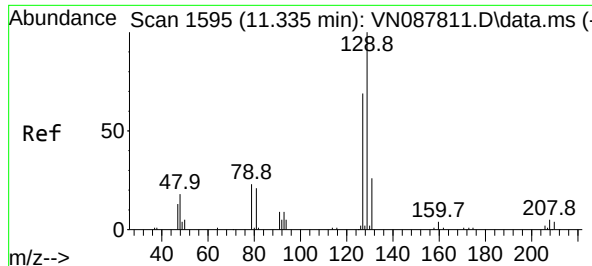
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 156.782 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

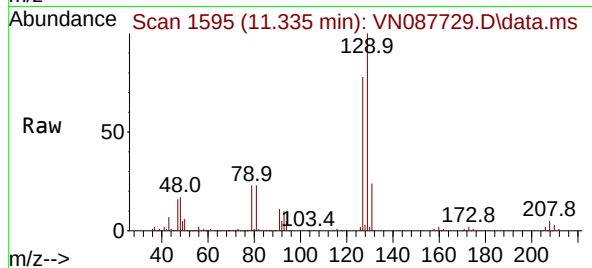
Tgt Ion: 76 Resp: 893642  
Ion Ratio Lower Upper  
76 100  
78 32.4 0.0 65.2





#53  
Dibromochloromethane  
Concen: 164.776 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

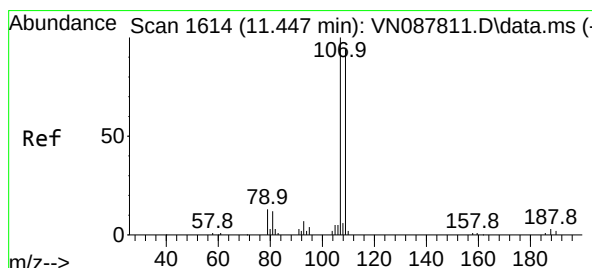
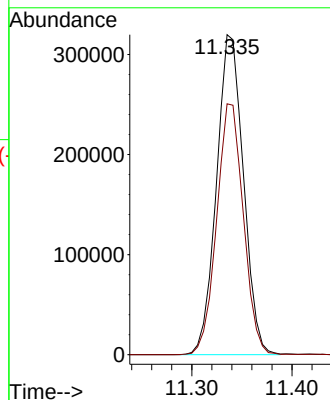
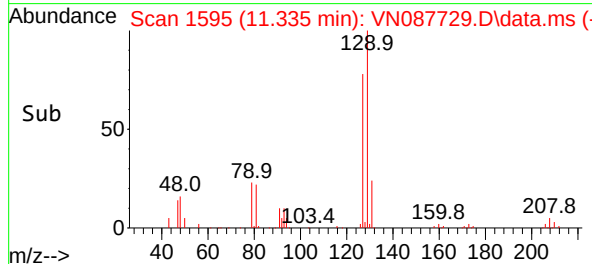
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



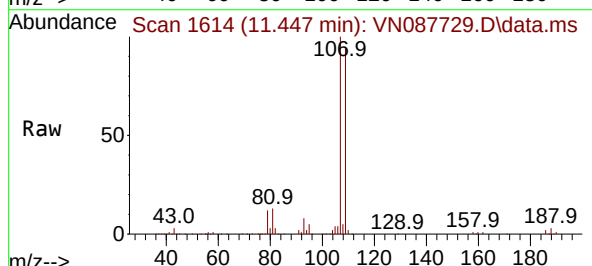
Tgt Ion:129 Resp: 596338  
Ion Ratio Lower Upper  
129 100  
127 77.7 42.6 128.0

Manual Integrations  
APPROVED

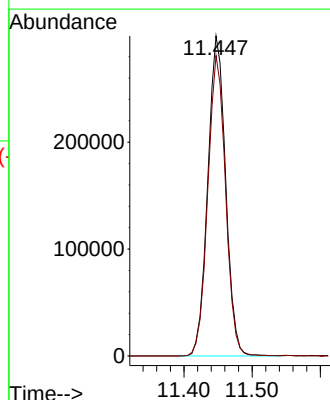
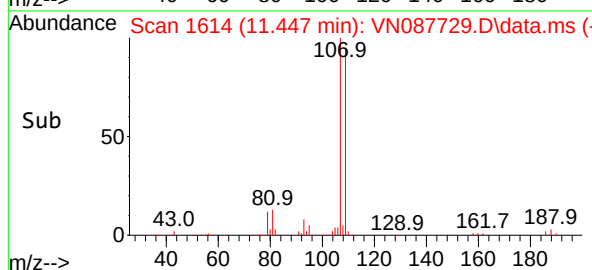
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

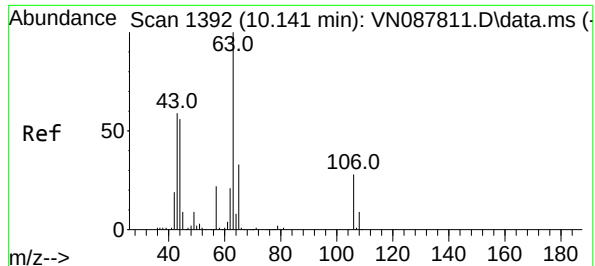


#54  
1,2-Dibromoethane  
Concen: 163.081 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46



Tgt Ion:107 Resp: 546357  
Ion Ratio Lower Upper  
107 100  
109 93.3 74.6 112.0





#55

2-Chloroethyl vinyl ether

Concen: 840.927 ug/l

RT: 10.141 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 246483

Ion Ratio Lower Upper

63 100

65 32.0 26.6 40.0

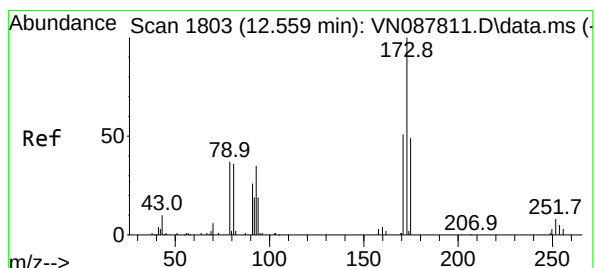
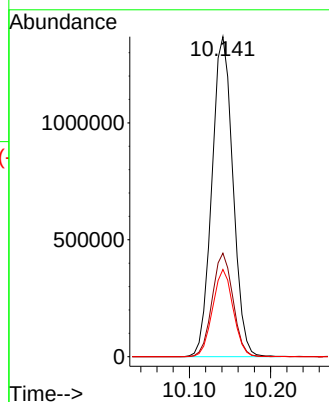
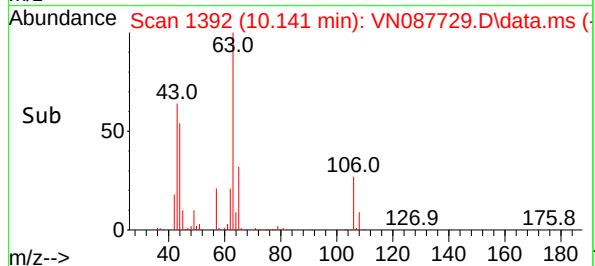
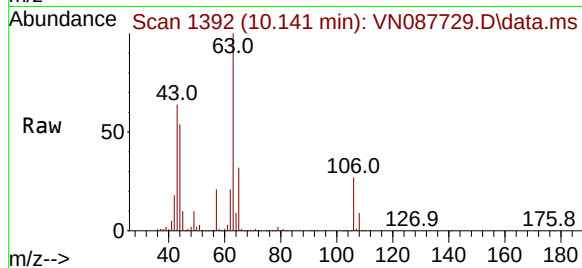
106 26.7 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#56

Bromoform

Concen: 167.746 ug/l

RT: 12.559 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

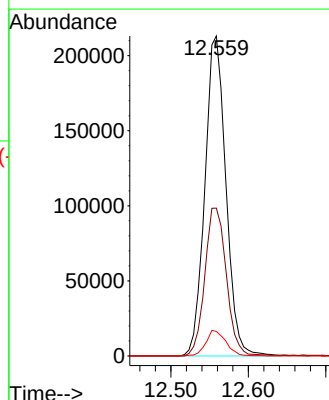
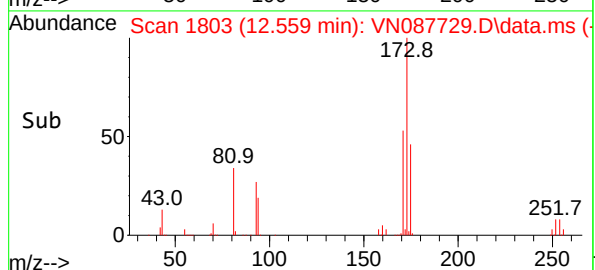
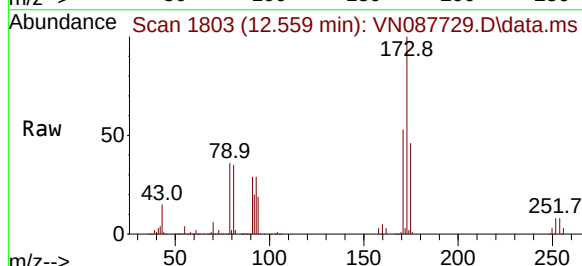
Tgt Ion:173 Resp: 402223

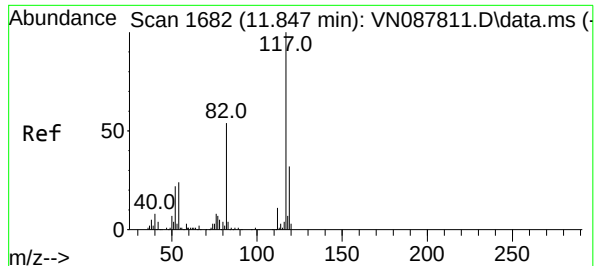
Ion Ratio Lower Upper

173 100

175 47.4 39.8 59.6

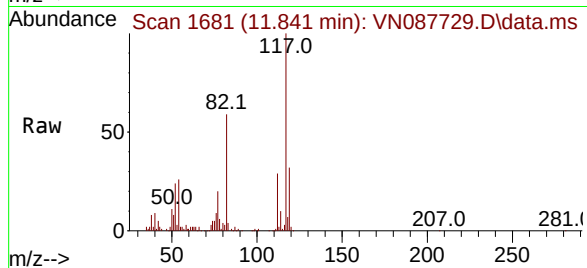
254 7.6 6.2 9.4





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

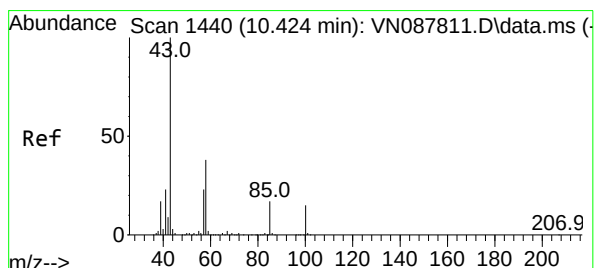
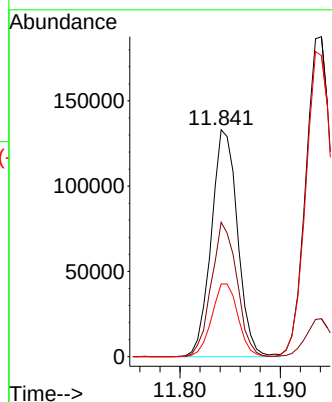
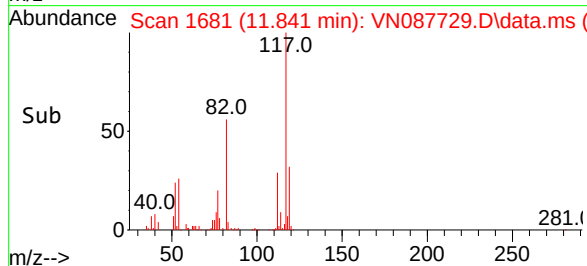
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 117 Resp: 242434  
Ion Ratio Lower Upper  
117 100  
82 57.7 45.9 68.9  
119 32.0 25.3 37.9

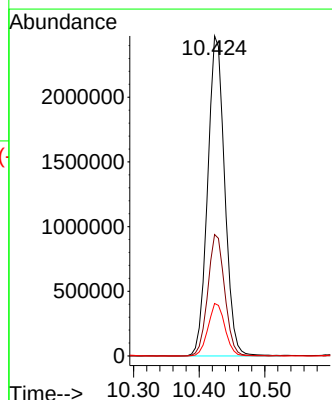
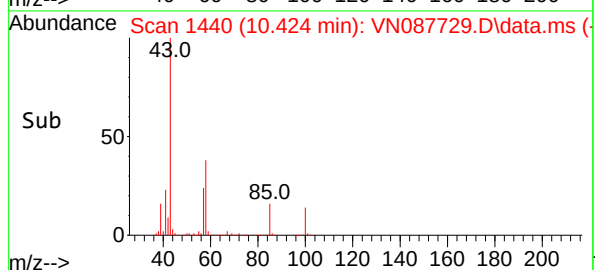
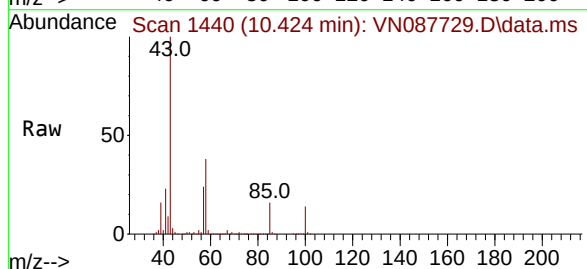
Manual Integrations  
APPROVED

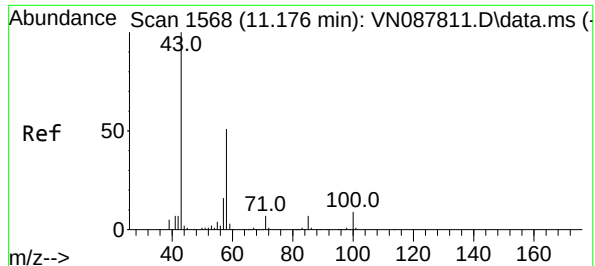
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#58  
4-Methyl-2-Pentanone  
Concen: 745.754 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 43 Resp: 4473520  
Ion Ratio Lower Upper  
43 100  
58 37.7 29.6 44.4  
85 16.3 13.0 19.4





#59

2-Hexanone

Concen: 780.545 ug/l

RT: 11.176 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 317093

Ion Ratio Lower Upper

43 100

58 52.7 40.2 60.4

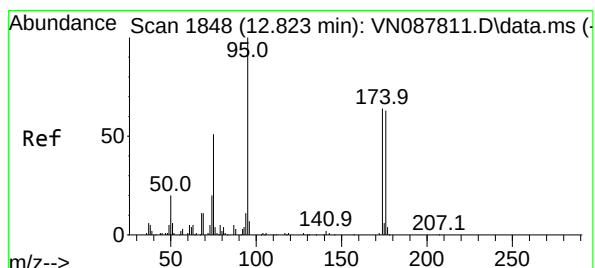
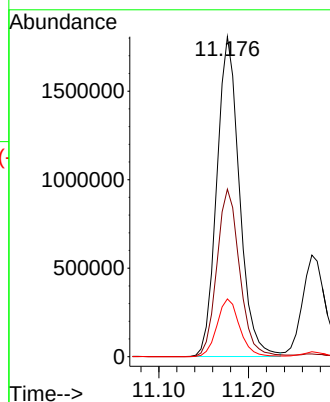
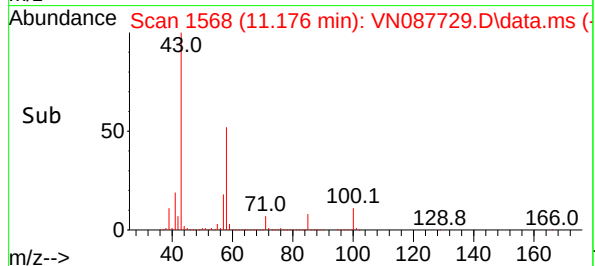
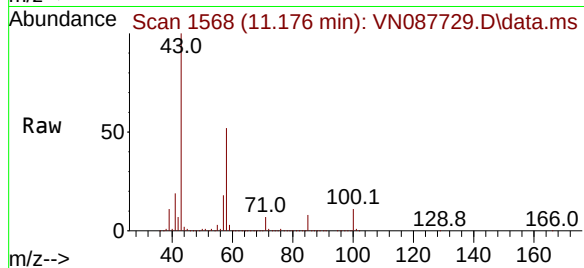
57 18.1 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#60

4-Bromofluorobenzene

Concen: 28.950 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

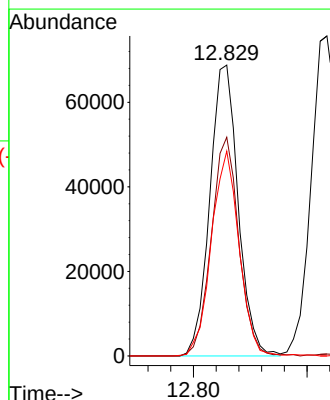
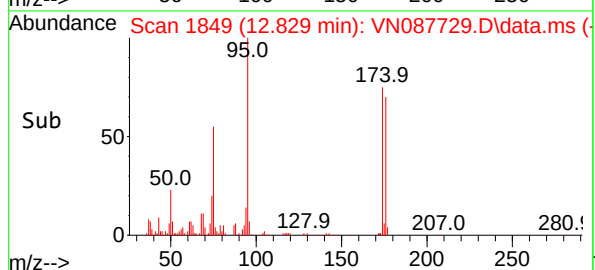
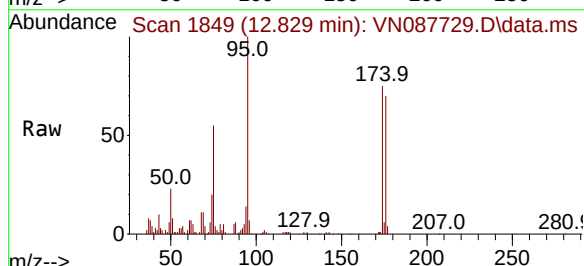
Tgt Ion: 95 Resp: 119357

Ion Ratio Lower Upper

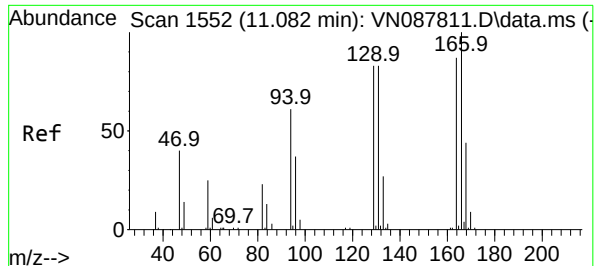
95 100

174 72.9 55.4 83.0

176 68.1 51.5 77.3

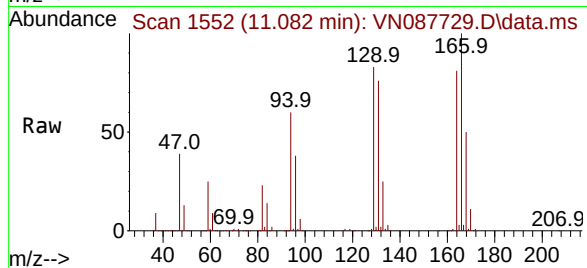






#61  
Tetrachloroethene  
Concen: 155.454 ug/l  
RT: 11.082 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

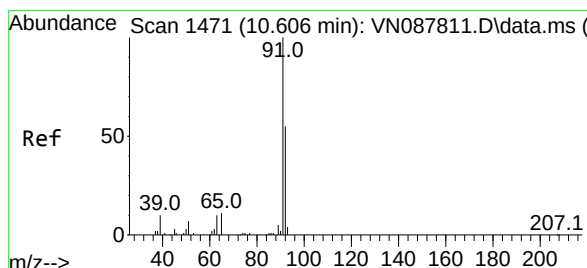
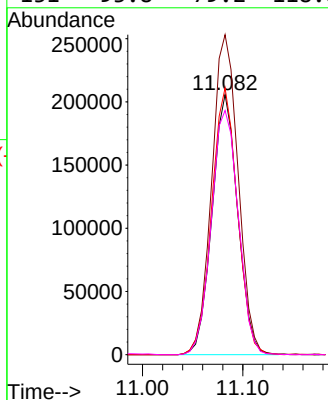
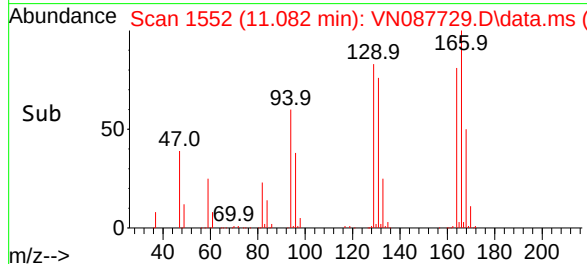
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



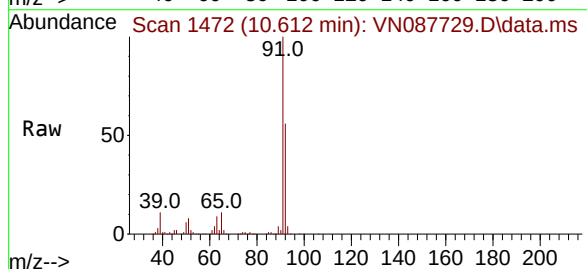
Tgt Ion:164 Resp: 363800  
Ion Ratio Lower Upper  
164 100  
166 123.0 97.3 145.9  
129 102.5 78.6 117.8  
131 93.8 79.2 118.8

Manual Integrations  
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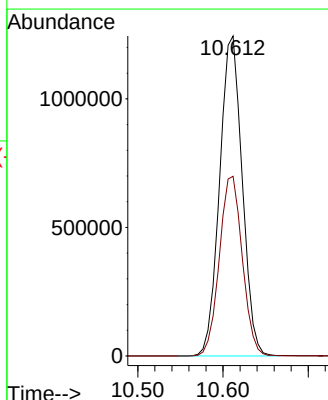
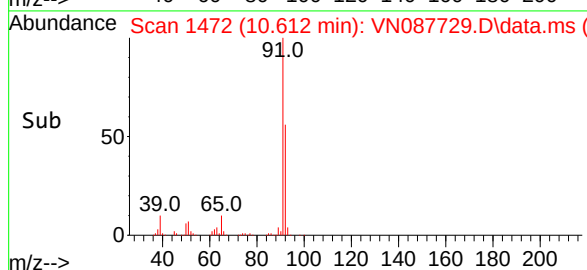
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

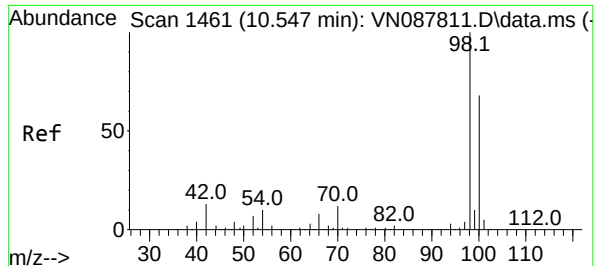


#62  
Toluene  
Concen: 157.273 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46



Tgt Ion: 91 Resp: 2294262  
Ion Ratio Lower Upper  
91 100  
92 57.1 45.4 68.0





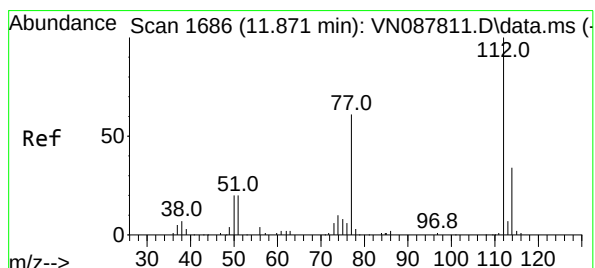
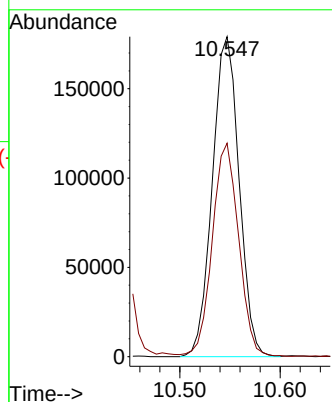
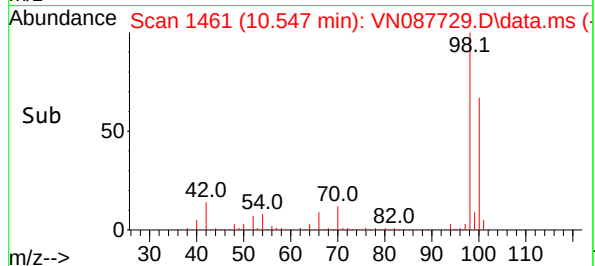
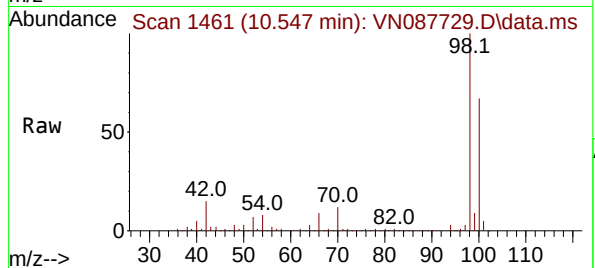
#63  
Toluene-d8  
Concen: 29.625 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion: 98 Resp: 331838  
Ion Ratio Lower Upper  
98 100  
100 66.0 50.6 76.0

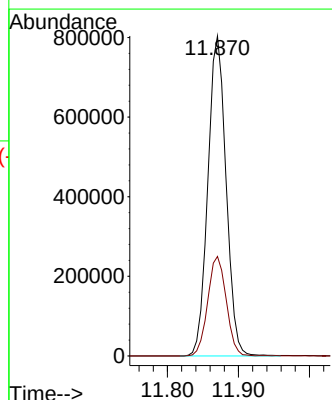
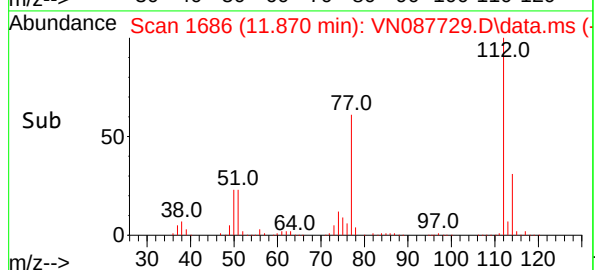
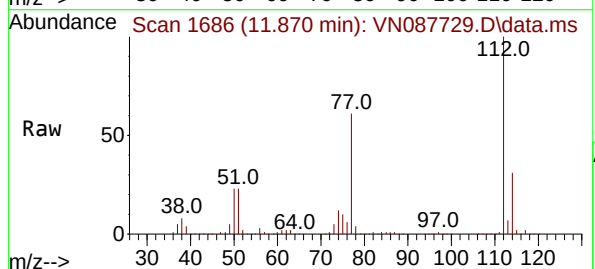
Manual Integrations  
APPROVED

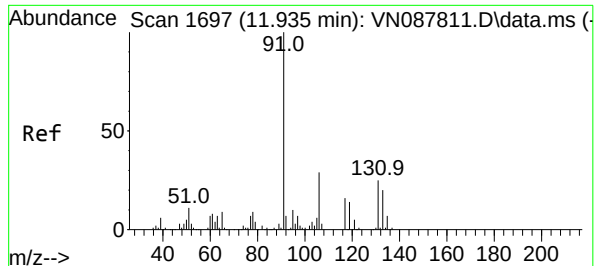
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#64  
Chlorobenzene  
Concen: 160.019 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:112 Resp: 1432339  
Ion Ratio Lower Upper  
112 100  
114 31.1 23.5 35.3





#65

1,1,1,2-Tetrachloroethane

Concen: 154.396 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. 0.006 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

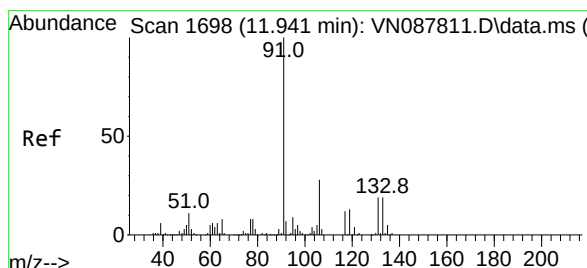
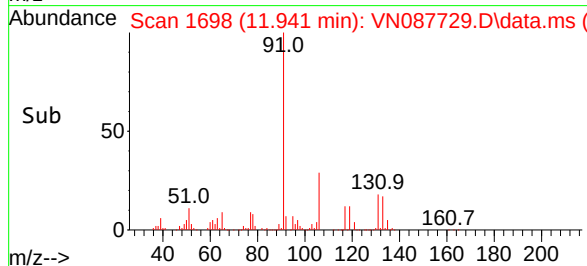
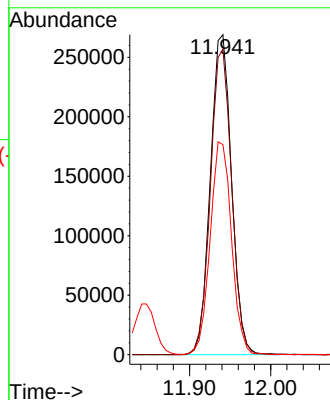
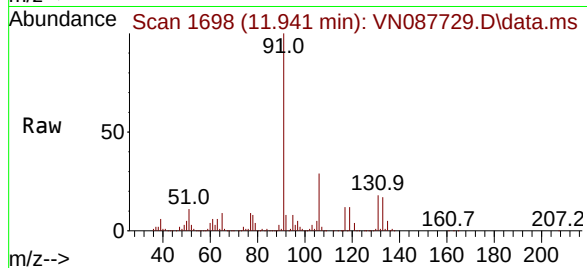
VSTDICC150

| Tgt Ion:  | 131   | Resp: | 48650 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 131       | 100   |       |       |
| 133       | 96.0  | 0.0   | 195.8 |
| 119       | 67.1  | 0.0   | 139.0 |

Manual Integrations

APPROVED

|                 |                     |            |
|-----------------|---------------------|------------|
| Reviewed By :   | Semsettin Yesilyurt | 09/05/2025 |
| Supervised By : | Mahesh Dadoda       | 09/05/2025 |



#66

Ethyl Benzene

Concen: 159.947 ug/l

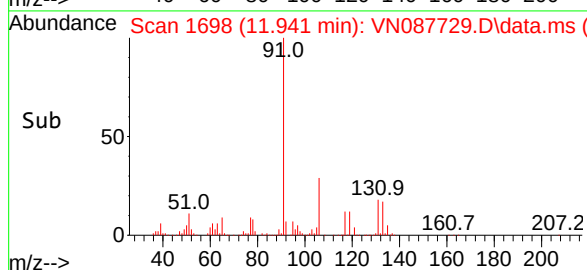
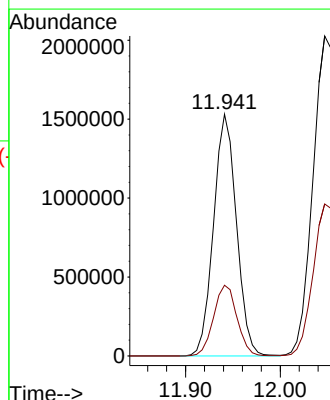
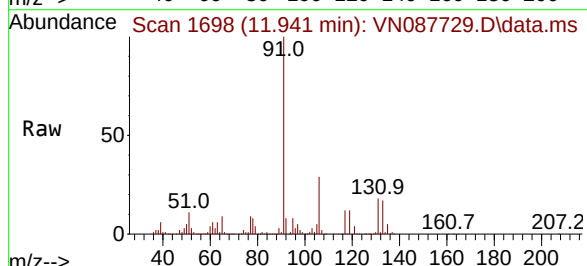
RT: 11.941 min Scan# 1698

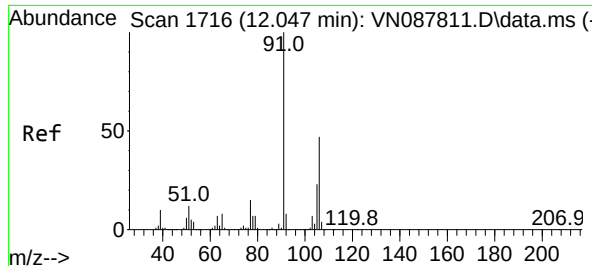
Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

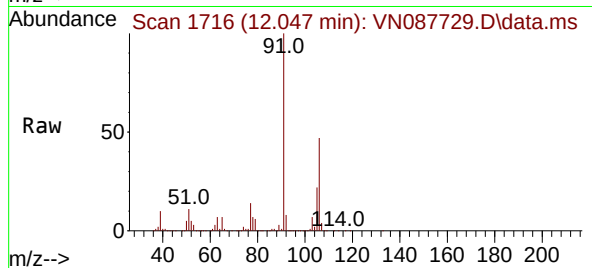
| Tgt Ion:  | 91    | Resp: | 2571632 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 106       | 29.3  | 21.3  | 31.9    |





#67  
m/p-Xylenes  
Concen: 321.770 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

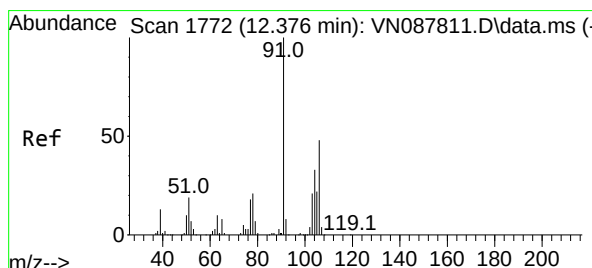
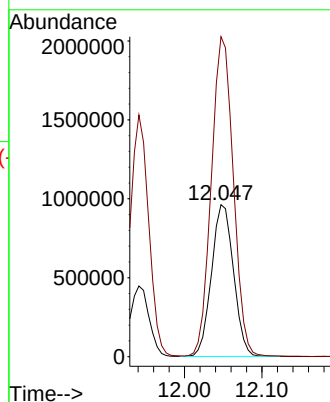
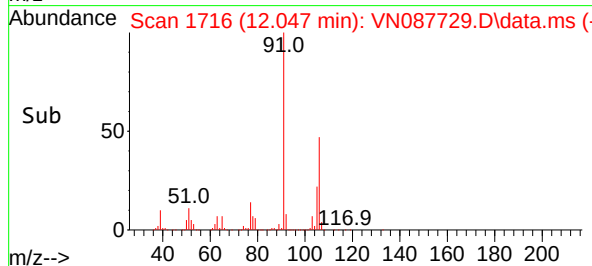
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:106 Resp: 190420  
Ion Ratio Lower Upper  
106 100  
91 209.6 174.3 261.5

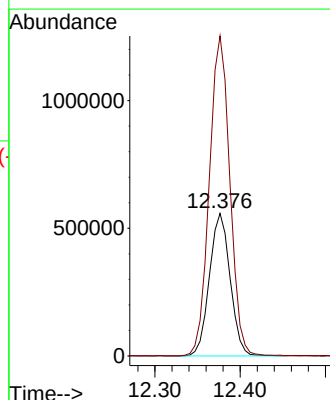
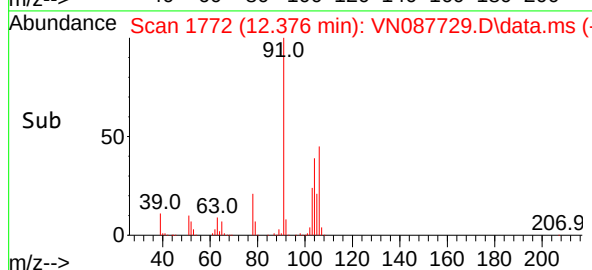
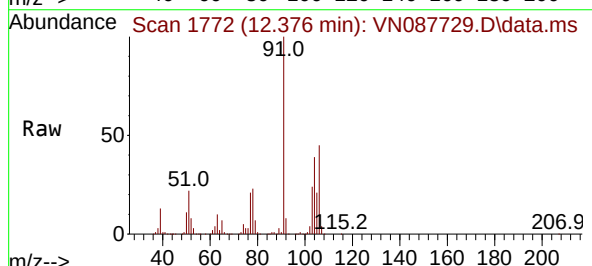
Manual Integrations  
APPROVED

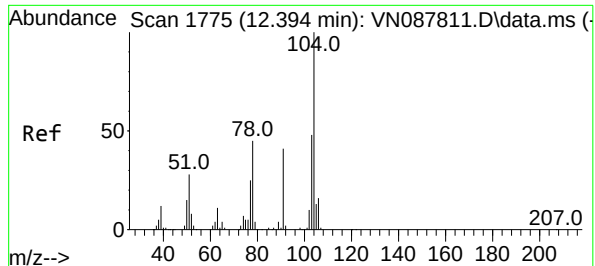
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#68  
o-Xylene  
Concen: 161.143 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:106 Resp: 940685  
Ion Ratio Lower Upper  
106 100  
91 222.9 107.7 323.3





#69

Styrene

Concen: 166.468 ug/l

RT: 12.388 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion:104 Resp: 1653060

Ion Ratio Lower Upper

104 100

78 52.0 41.0 61.6

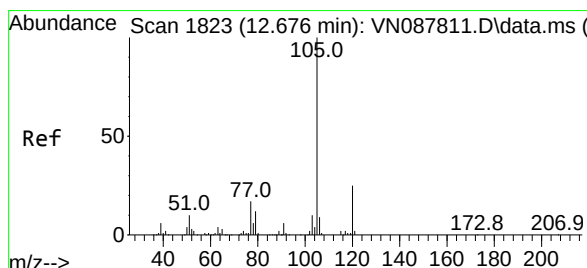
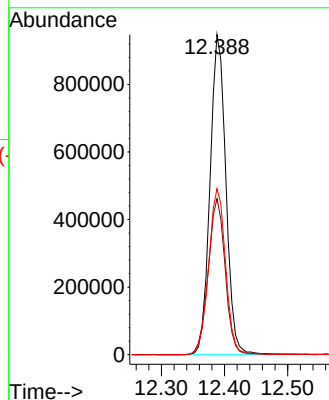
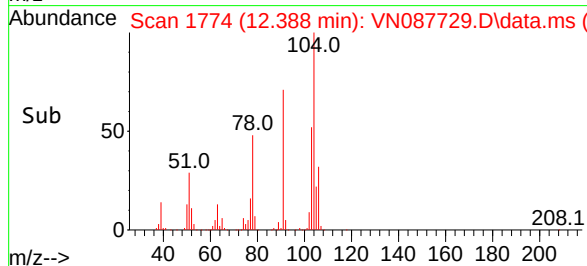
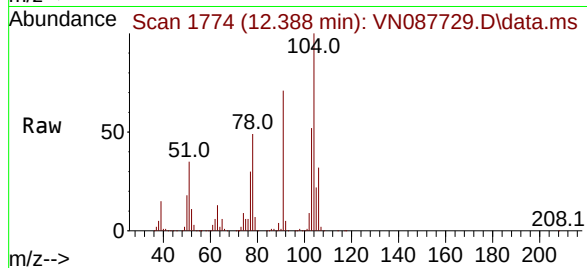
103 55.1 44.6 66.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#70

Isopropylbenzene

Concen: 161.764 ug/l

RT: 12.670 min Scan# 1822

Delta R.T. -0.006 min

Lab File: VN087729.D

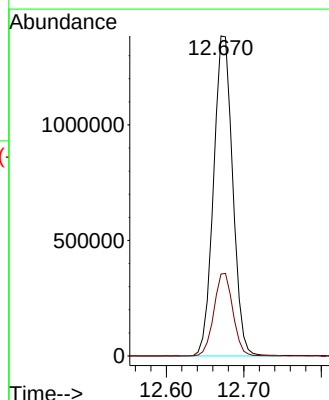
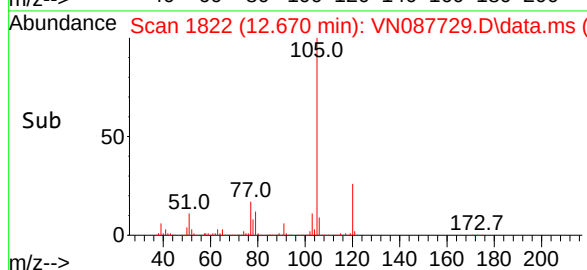
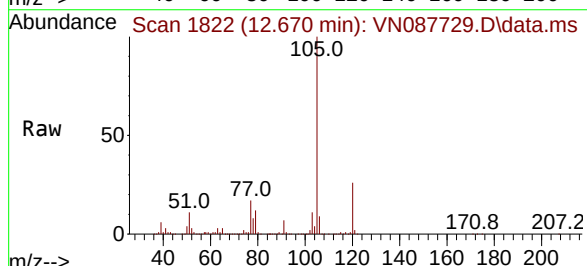
Acq: 04 Sep 2025 17:46

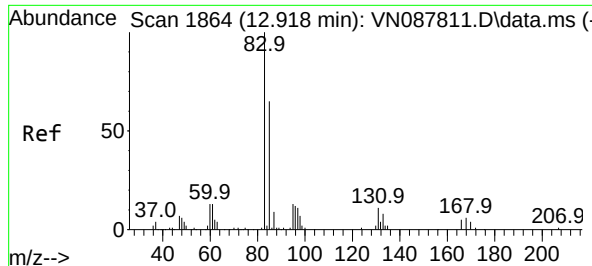
Tgt Ion:105 Resp: 2375492

Ion Ratio Lower Upper

105 100

120 25.6 17.4 32.4





#71

1,1,2-Tetrachloroethane

Concen: 154.952 ug/l

RT: 12.917 min Scan# 1864

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

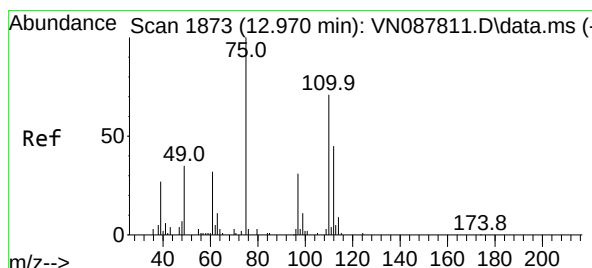
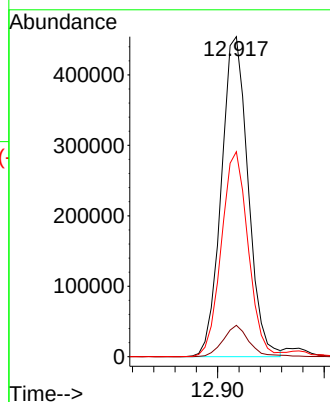
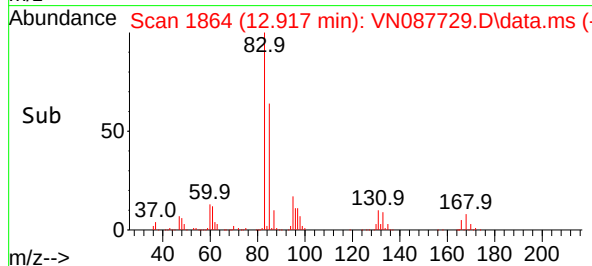
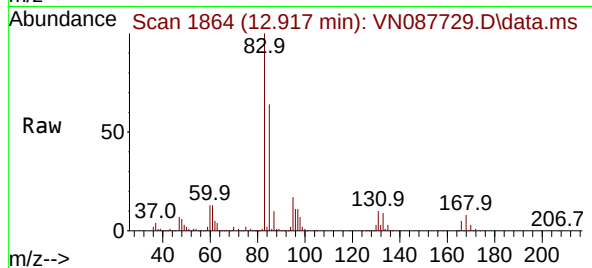
VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 793928 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 131      | 9.5   | 4.8   | 14.3   |
| 85       | 63.7  | 31.9  | 95.7   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72

1,2,3-Trichloropropane

Concen: 153.295 ug/l m

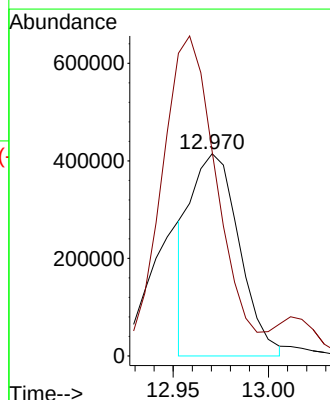
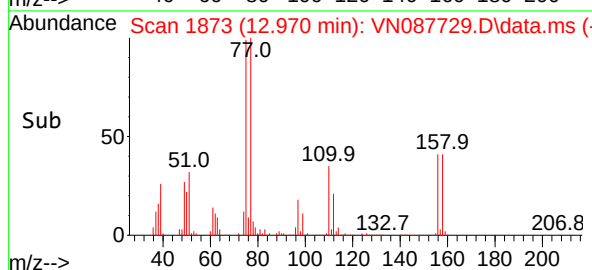
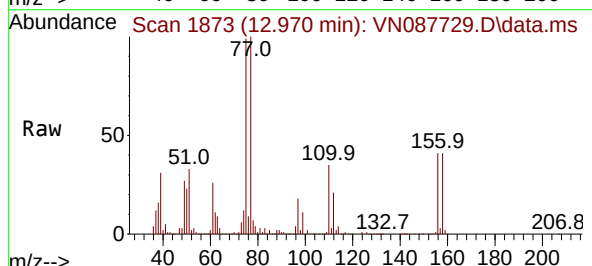
RT: 12.970 min Scan# 1873

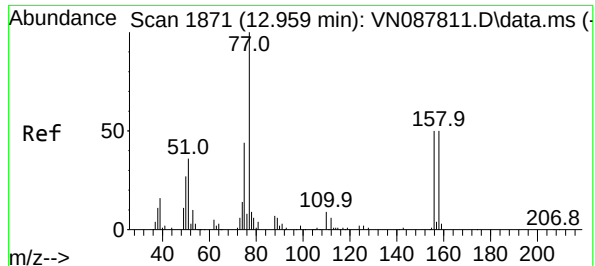
Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

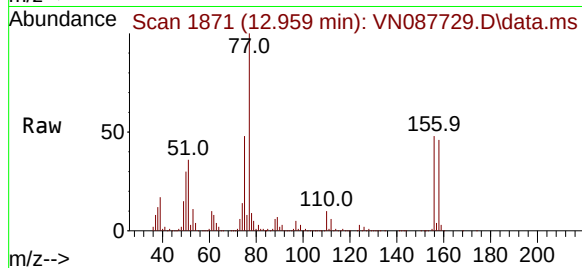
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 732764 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 180.6 | 0.0   | 378.8  |





#73  
Bromobenzene  
Concen: 159.435 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

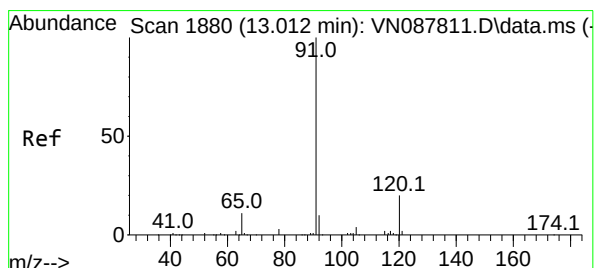
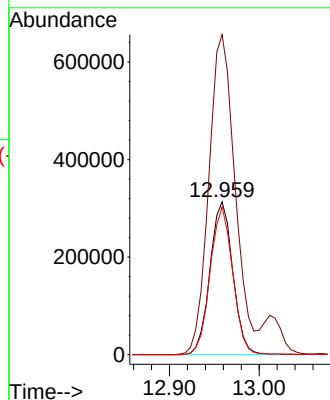
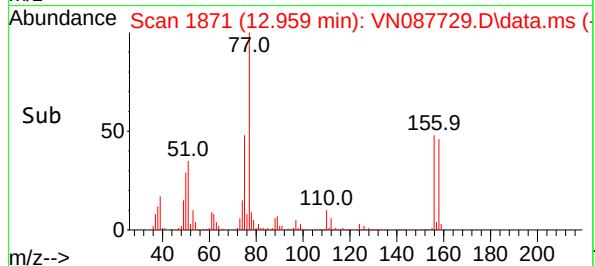
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:156 Resp: 55348  
Ion Ratio Lower Upper  
156 100  
77 239.1 0.0 484.2  
158 95.3 0.0 186.2

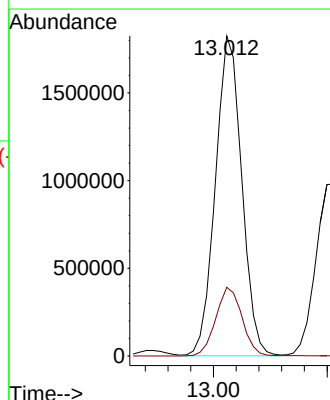
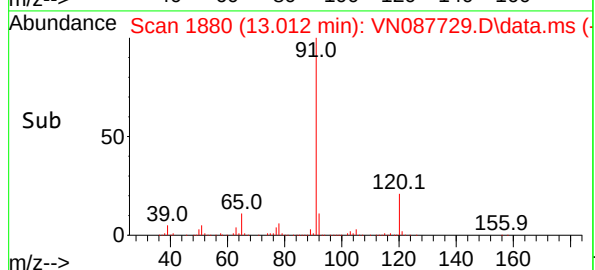
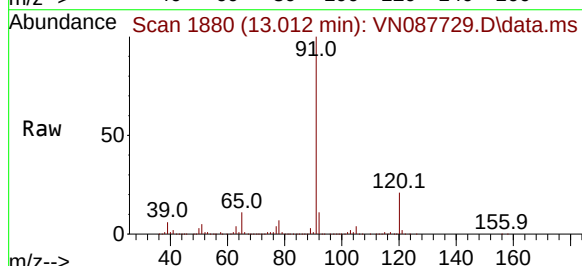
Manual Integrations  
APPROVED

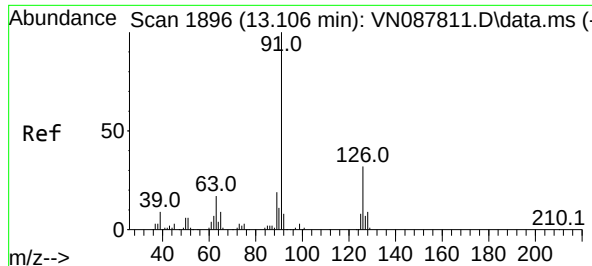
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#74  
n-propylbenzene  
Concen: 158.973 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion: 91 Resp: 2937041  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 42.2





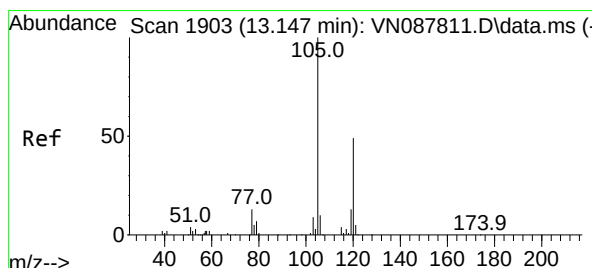
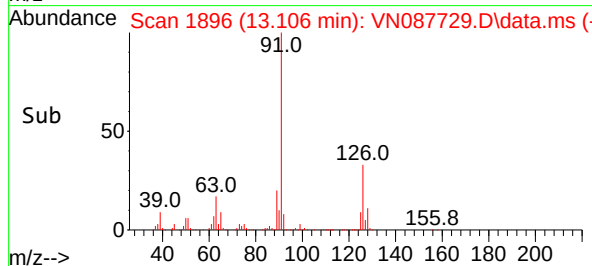
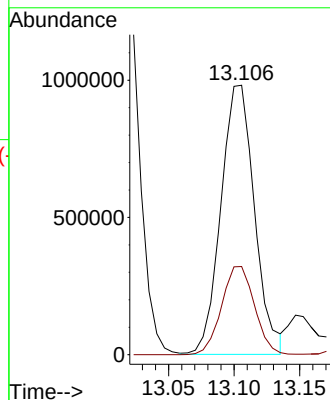
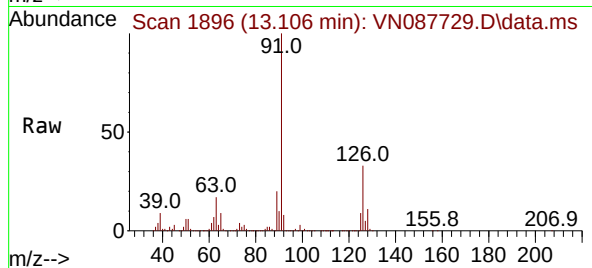
#75  
2-Chlorotoluene  
Concen: 153.793 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion: 91 Resp: 174779  
Ion Ratio Lower Upper  
91 100  
126 32.1 0.0 60.4

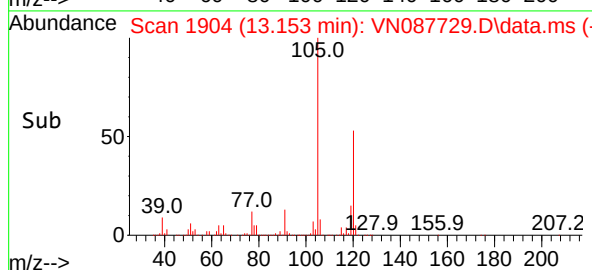
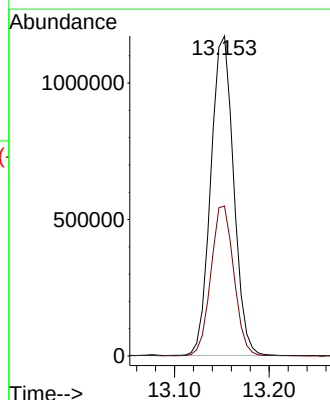
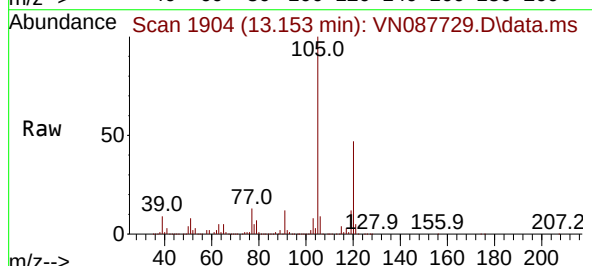
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

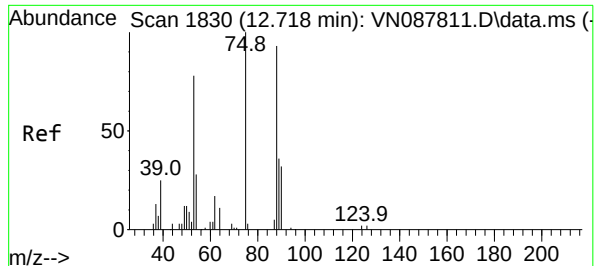


#76  
1,3,5-Trimethylbenzene  
Concen: 155.546 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:105 Resp: 1960149  
Ion Ratio Lower Upper  
105 100  
120 47.3 0.0 92.6







#77

t-1,4-Dichloro-2-butene

Concen: 173.364 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

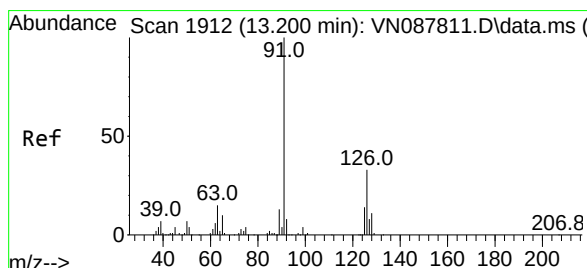
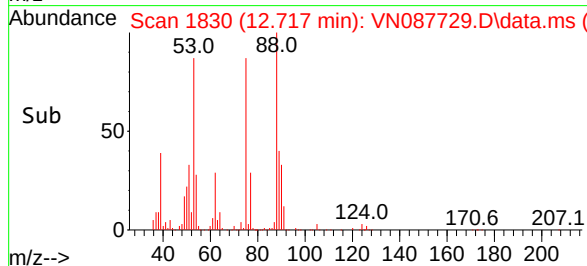
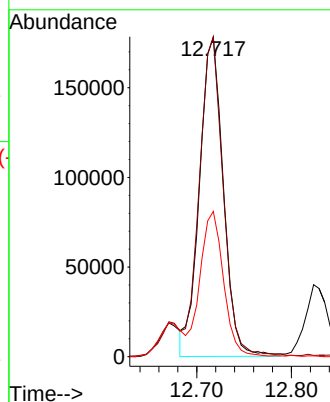
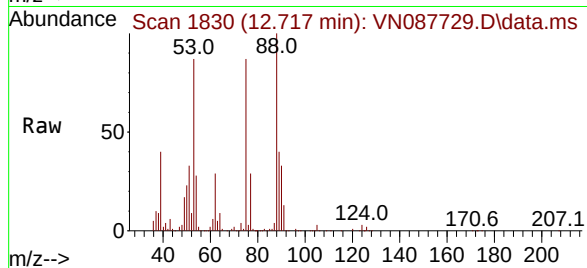
VSTDICC150

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 31117 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 100.2 | 45.3  | 135.9 |
| 89        | 45.7  | 18.8  | 56.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78

4-Chlorotoluene

Concen: 156.166 ug/l

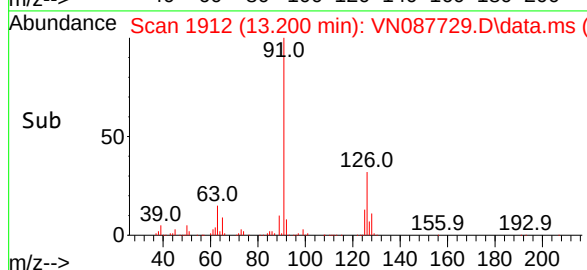
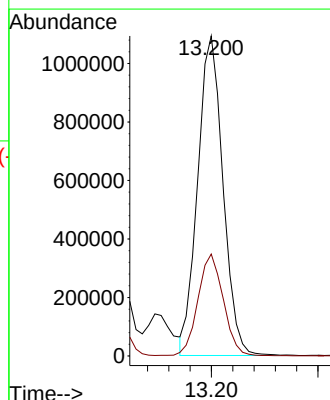
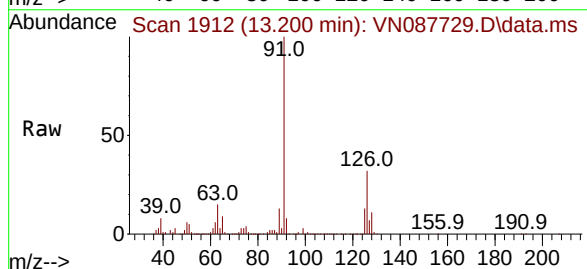
RT: 13.200 min Scan# 1912

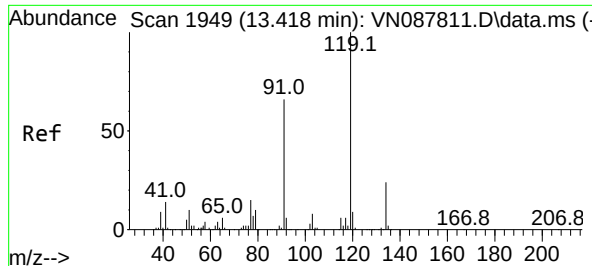
Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

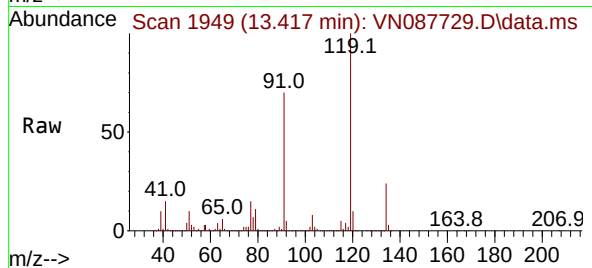
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1806216 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 126       | 31.7  | 0.0   | 67.0    |





#79  
tert-butylbenzene  
Concen: 155.295 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

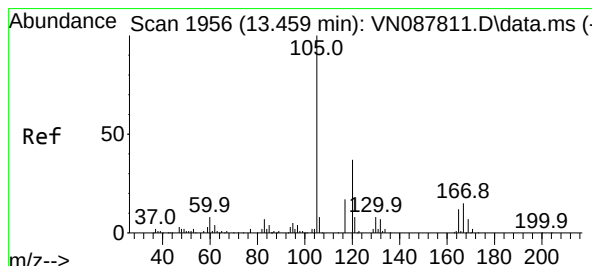
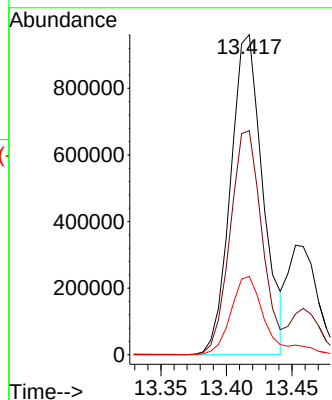
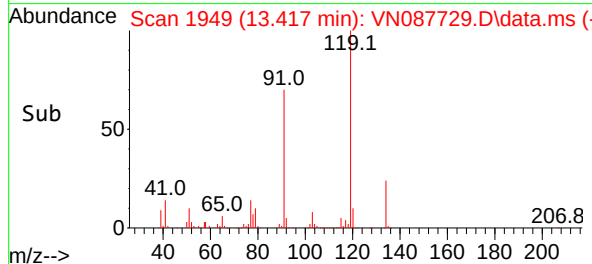
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:119 Resp: 1648720  
Ion Ratio Lower Upper  
119 100  
91 68.9 0.0 142.6  
134 24.4 0.0 47.2

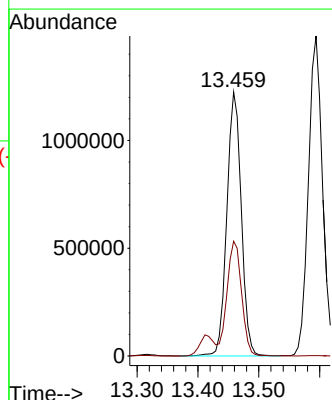
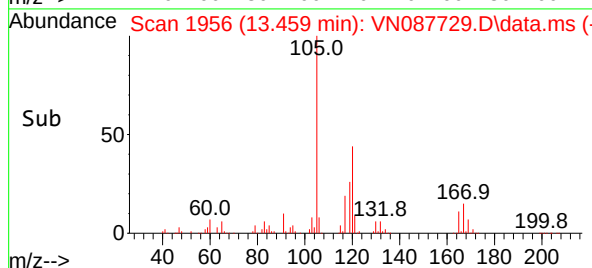
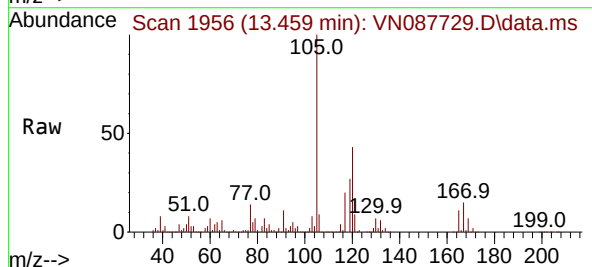
Manual Integrations  
APPROVED

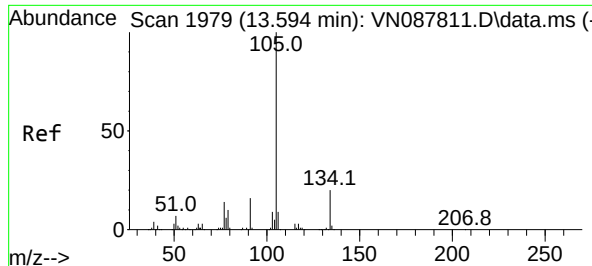
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 158.567 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:105 Resp: 2015689  
Ion Ratio Lower Upper  
105 100  
120 44.1 0.0 86.6





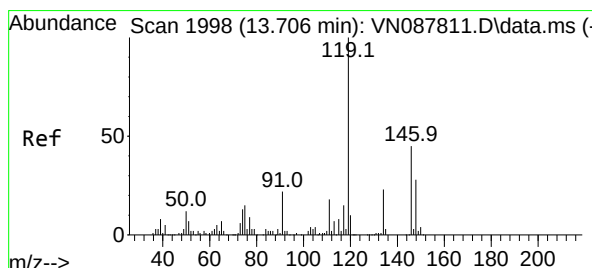
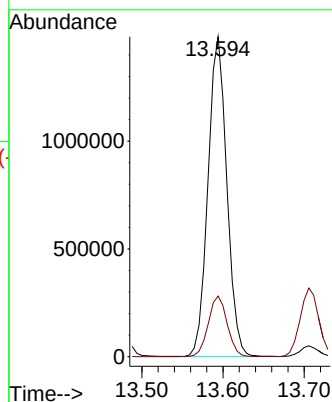
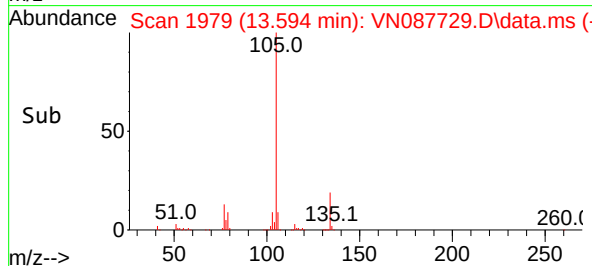
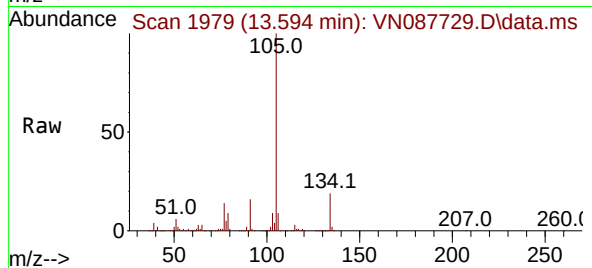
#81  
sec-Butylbenzene  
Concen: 153.961 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150

Tgt Ion:105 Resp: 2383484  
Ion Ratio Lower Upper  
105 100  
134 19.1 0.0 37.0

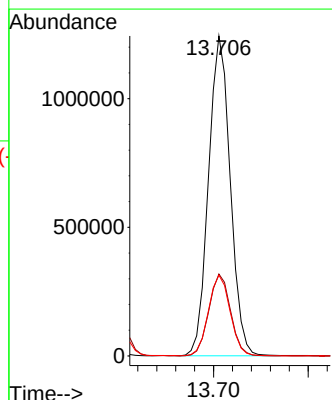
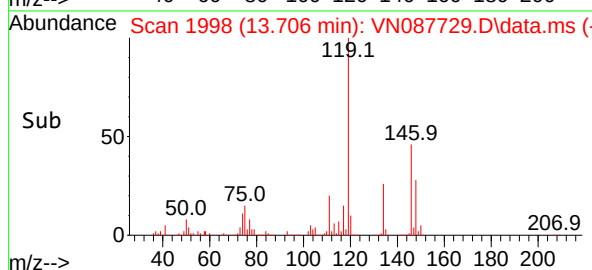
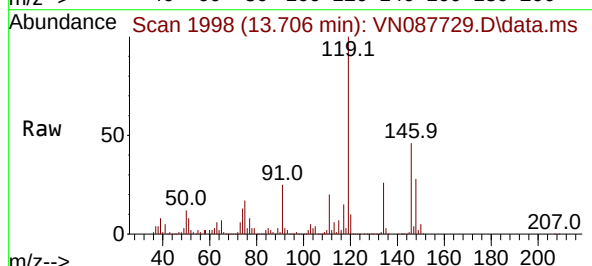
Manual Integrations  
APPROVED

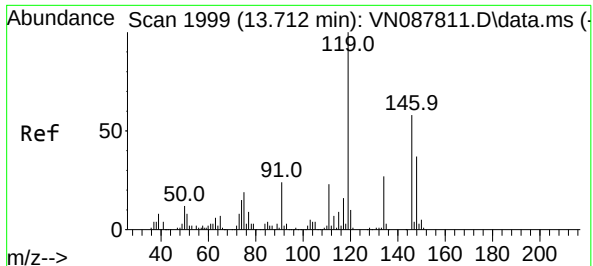
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#82  
p-Isopropyltoluene  
Concen: 154.798 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:119 Resp: 1983862  
Ion Ratio Lower Upper  
119 100  
134 25.7 0.0 49.4  
91 25.2 0.0 52.2





#83

1,3-Dichlorobenzene

Concen: 159.363 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 105999

Ion Ratio Lower Upper

146 100

111 42.9 21.1 63.4

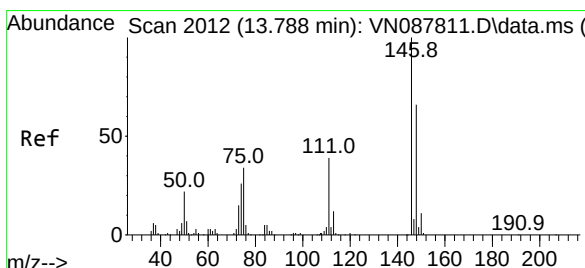
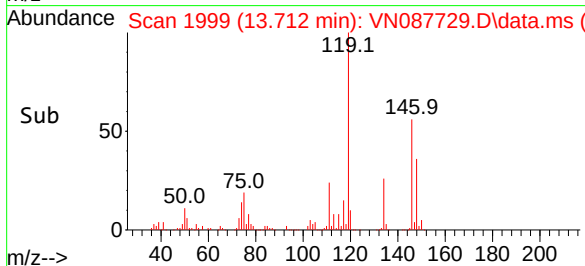
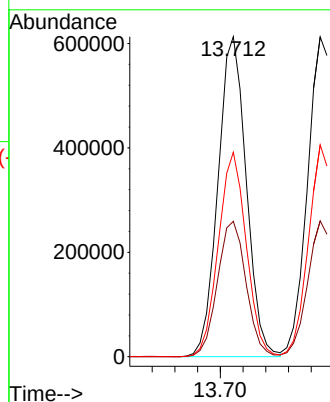
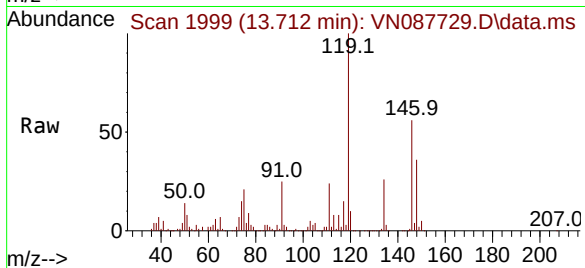
148 63.1 31.0 93.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 156.951 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

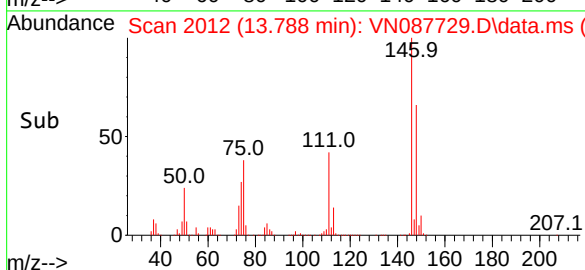
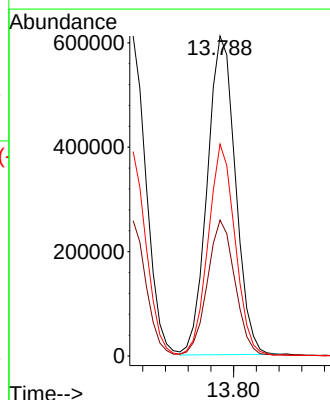
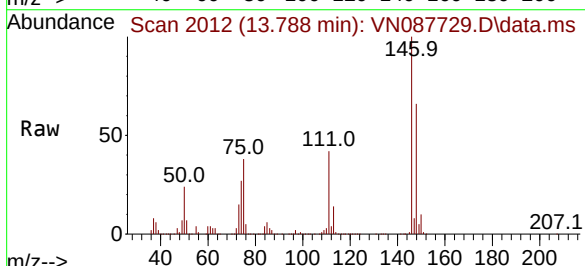
Tgt Ion:146 Resp: 1050951

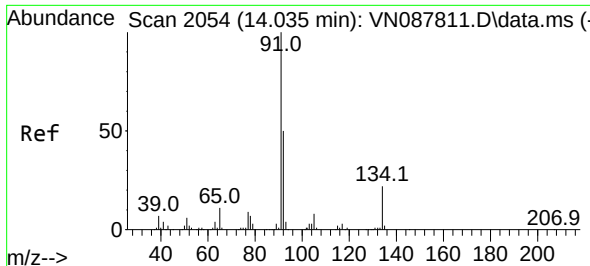
Ion Ratio Lower Upper

146 100

111 41.9 20.2 60.5

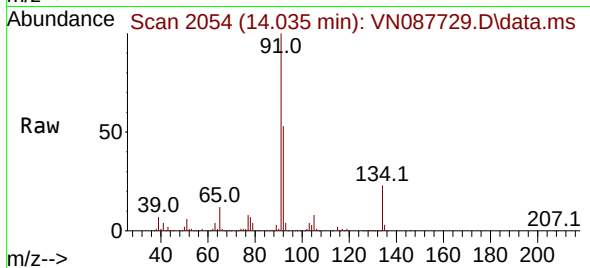
148 63.8 31.5 94.5





#85  
n-Butylbenzene  
Concen: 154.195 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

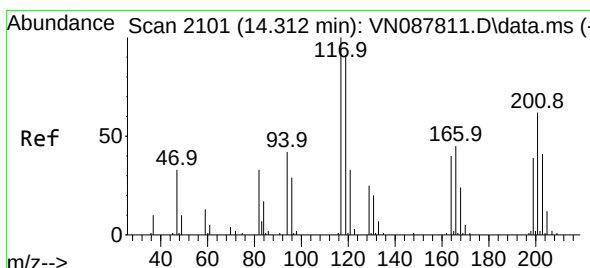
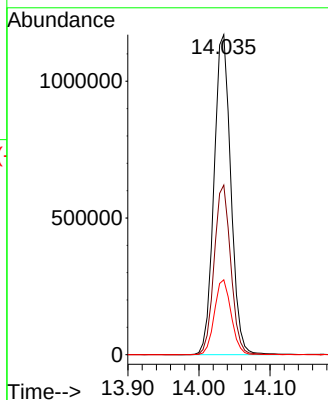
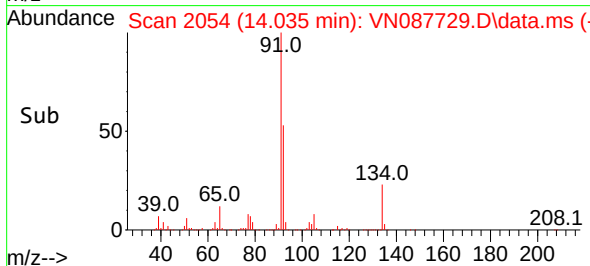
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion: 91 Resp: 191942  
Ion Ratio Lower Upper  
91 100  
92 52.2 0.0 104.0  
134 23.2 0.0 46.0

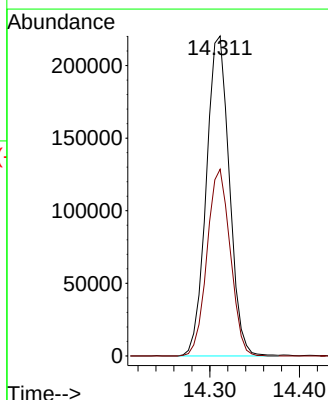
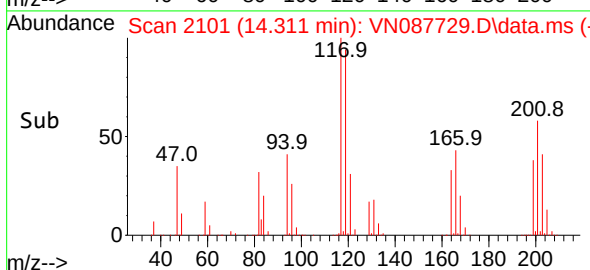
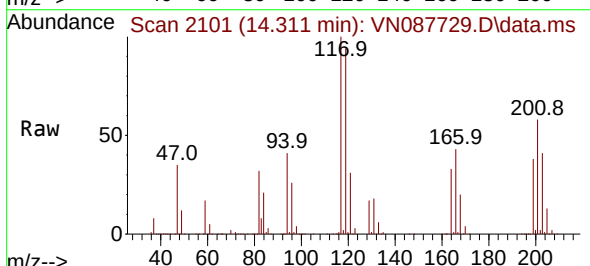
Manual Integrations  
APPROVED

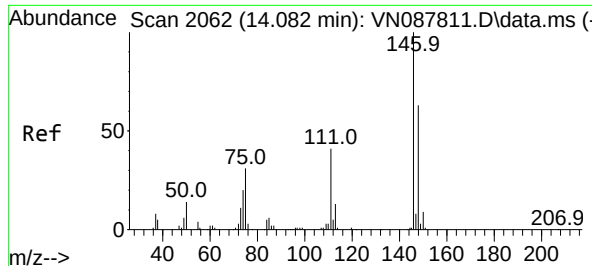
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86  
Hexachloroethane  
Concen: 154.382 ug/l  
RT: 14.311 min Scan# 2101  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:117 Resp: 392690  
Ion Ratio Lower Upper  
117 100  
201 58.8 29.9 89.7





#87

1,2-Dichlorobenzene

Concen: 159.224 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 100425

Ion Ratio Lower Upper

146 100

111 45.3 21.5 64.5

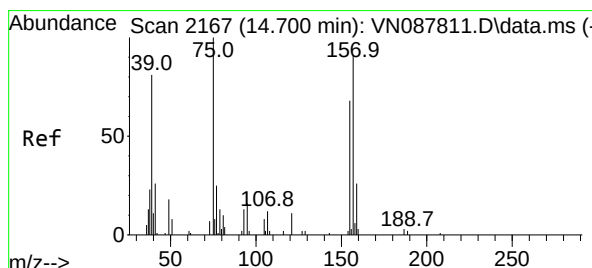
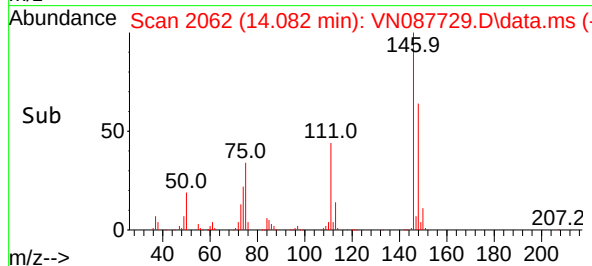
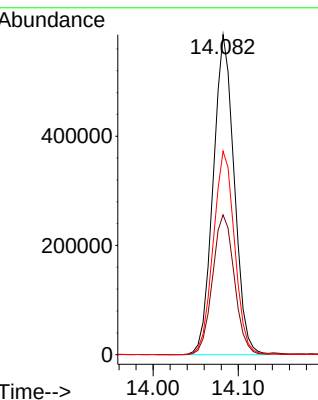
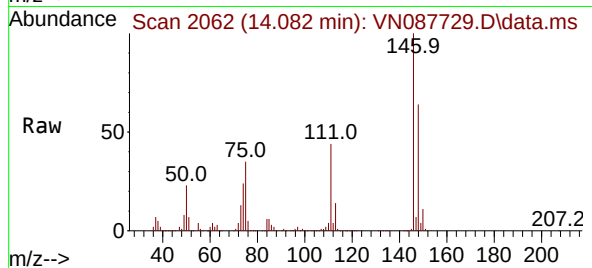
148 64.8 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 144.163 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

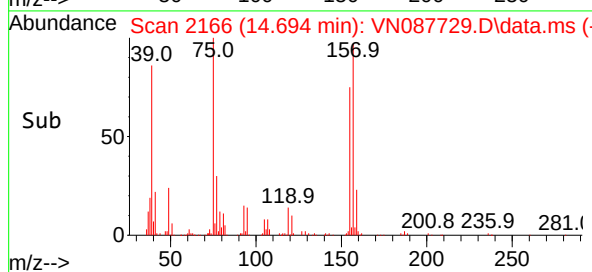
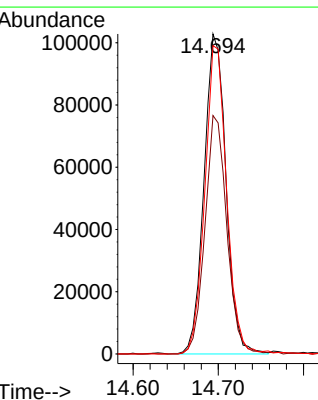
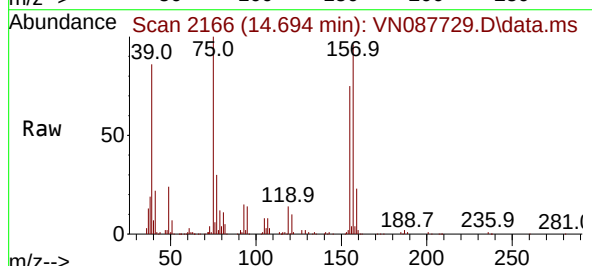
Tgt Ion: 75 Resp: 184176

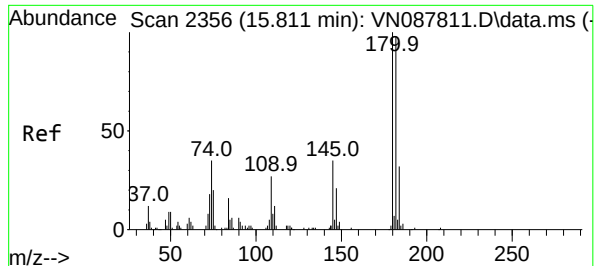
Ion Ratio Lower Upper

75 100

155 74.2 53.0 79.4

157 95.2 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 158.821 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

Instrument :

MSVOA\_N

ClientSampleId :

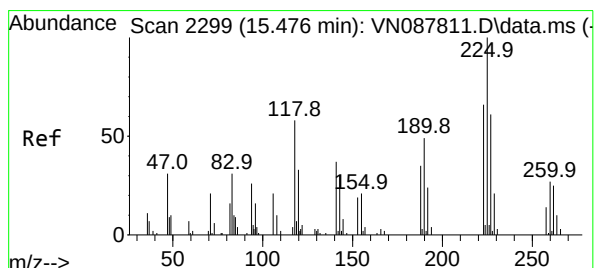
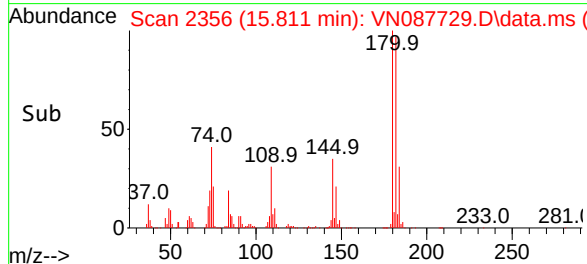
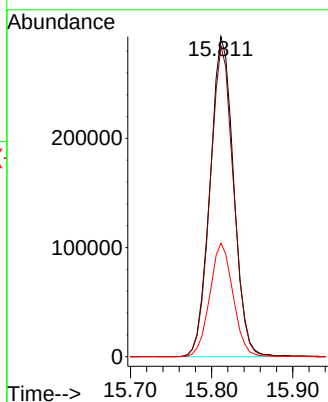
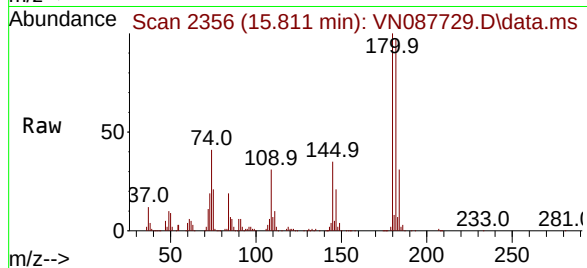
VSTDICC150

|             |                 |
|-------------|-----------------|
| Tgt Ion:180 | Resp: 59198     |
| Ion Ratio   | Lower Upper     |
| 180         | 100             |
| 182         | 96.4 74.6 111.8 |
| 145         | 35.0 27.4 41.0  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 128.598 ug/l

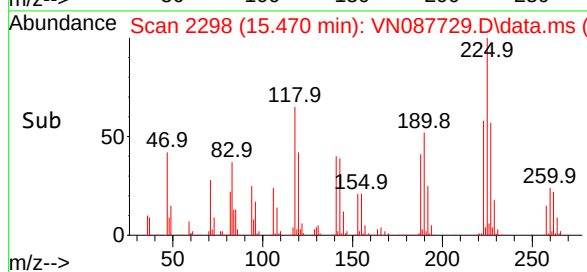
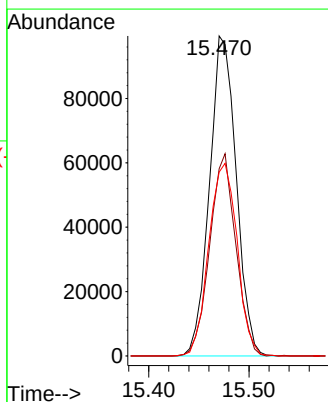
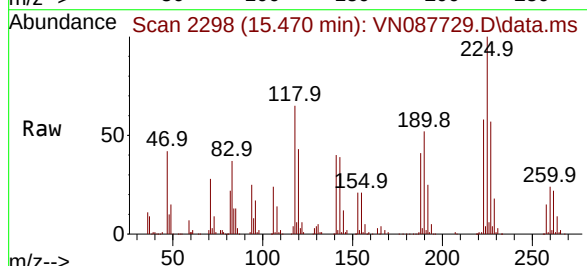
RT: 15.470 min Scan# 2298

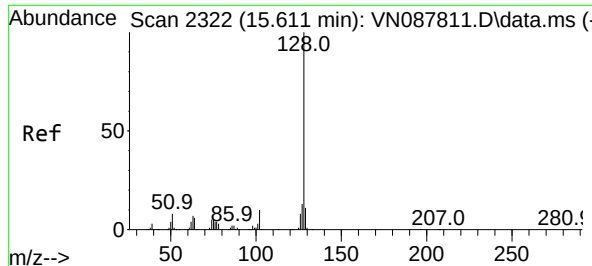
Delta R.T. -0.000 min

Lab File: VN087729.D

Acq: 04 Sep 2025 17:46

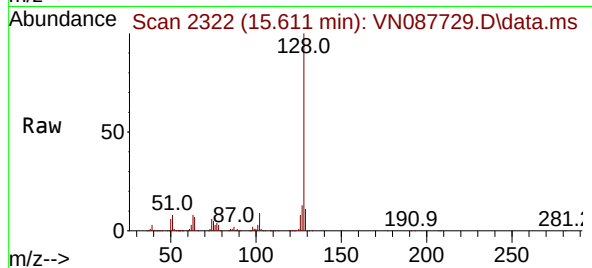
|             |                |
|-------------|----------------|
| Tgt Ion:225 | Resp: 183756   |
| Ion Ratio   | Lower Upper    |
| 225         | 100            |
| 223         | 62.0 0.0 118.2 |
| 227         | 64.0 0.0 139.0 |





#91  
Naphthalene  
Concen: 165.441 ug/l  
RT: 15.611 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

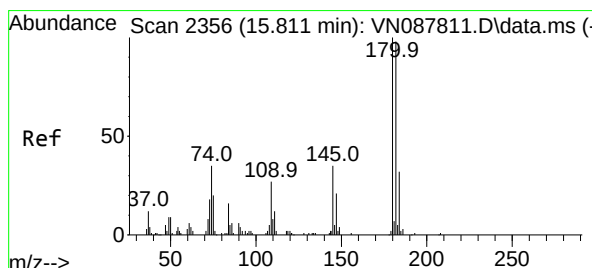
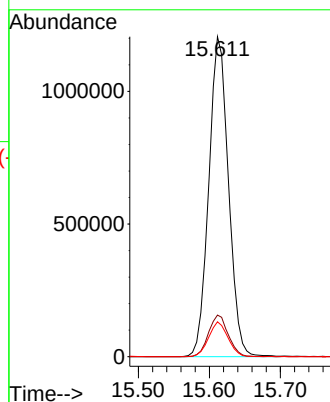
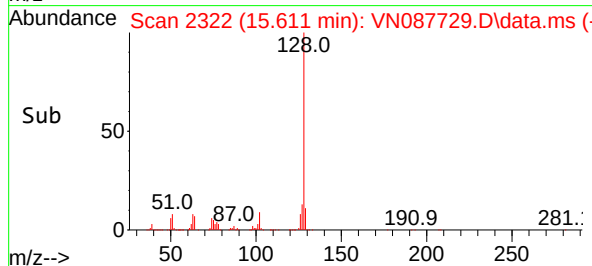
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC150



Tgt Ion:128 Resp: 232438  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 10.7 8.3 12.5

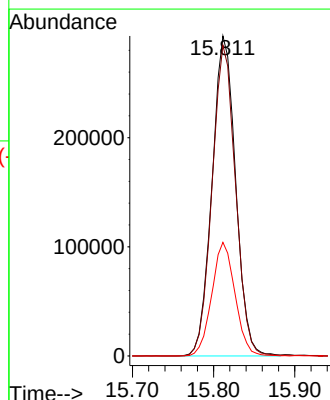
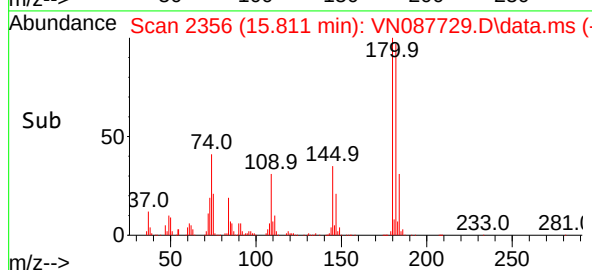
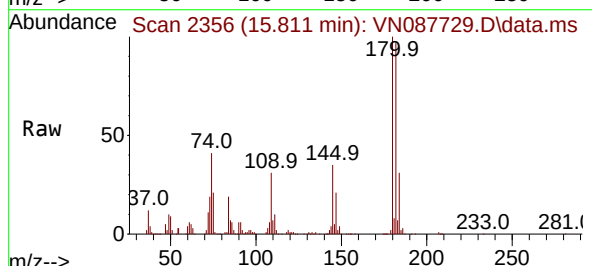
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 158.821 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087729.D  
Acq: 04 Sep 2025 17:46

Tgt Ion:180 Resp: 591983  
Ion Ratio Lower Upper  
180 100  
182 96.4 0.0 186.4  
145 35.0 0.0 68.4





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087731.D  
 Acq On : 04 Sep 2025 18:28  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN090425

Quant Time: Sep 05 03:32:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
 Supervised By :Mahesh Dadoda 09/05/2025

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 45925               | 30.000 | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 235644              | 30.000 | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 221185              | 30.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 118609              | 30.234 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.767% |        |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 103848              | 29.200 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 97.333%  |        |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 305314              | 29.682 | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 98.933%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.148          | 85   | 52434               | 18.370 | ug/l   | 100      |
| 3) Chloromethane             | 2.383          | 50   | 54083               | 18.050 | ug/l   | 91       |
| 4) Vinyl Chloride            | 2.536          | 62   | 59288               | 17.504 | ug/l   | 99       |
| 5) Bromomethane              | 2.989          | 94   | 35460               | 17.846 | ug/l   | 95       |
| 6) Chloroethane              | 3.136          | 64   | 39572               | 17.094 | ug/l # | 77       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 85267               | 17.175 | ug/l   | 86       |
| 8) Diethyl Ether             | 3.959          | 74   | 36966               | 17.632 | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 46222               | 17.189 | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 4.342          | 96   | 48502               | 17.494 | ug/l # | 89       |
| 11) Methyl Iodide            | 4.594          | 142  | 29628m              | 15.097 | ug/l   |          |
| 12) Methyl Acetate           | 5.012          | 43   | 78049               | 18.262 | ug/l   | 98       |
| 13) Acrolein                 | 4.177          | 56   | 69346m              | 91.132 | ug/l   |          |
| 14) Acrylonitrile            | 5.712          | 53   | 162624              | 88.404 | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 48575               | 84.645 | ug/l   | 81       |
| 16) Carbon Disulfide         | 4.712          | 76   | 136485              | 17.930 | ug/l # | 94       |
| 17) Allyl chloride           | 5.012          | 41   | 77276               | 17.065 | ug/l   | 94       |
| 18) Methylene Chloride       | 5.265          | 84   | 55915               | 17.804 | ug/l   | 89       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 49711               | 17.581 | ug/l   | 93       |
| 20) Diisopropyl ether        | 6.653          | 45   | 173212              | 16.633 | ug/l # | 99       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 100521              | 17.627 | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 59360               | 17.296 | ug/l   | 95       |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 58538               | 90.020 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 171206              | 17.297 | ug/l # | 83       |
| 25) Chloroform               | 7.947          | 83   | 103557              | 17.349 | ug/l   | 94       |
| 26) Cyclohexane              | 8.235          | 56   | 75387               | 17.359 | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 8.347          | 75   | 65482               | 17.099 | ug/l   | 99       |
| 30) 2-Butanone               | 7.471          | 43   | 231480              | 87.744 | ug/l   | 97       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 78485               | 17.001 | ug/l # | 78       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 85693               | 17.650 | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 69645               | 17.204 | ug/l # | 93       |
| 34) Benzene                  | 8.588          | 78   | 218694              | 17.669 | ug/l   | 93       |
| 35) Methacrylonitrile        | 7.765          | 41   | 51135               | 18.531 | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 82106               | 17.562 | ug/l   | 99       |
| 37) Trichloroethene          | 9.341          | 130  | 45924               | 16.598 | ug/l   | 92       |
| 38) Methylcyclohexane        | 9.582          | 83   | 70612               | 16.745 | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 54676               | 17.248 | ug/l # | 83       |
| 40) Dibromomethane           | 9.682          | 93   | 42325               | 17.941 | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.871          | 83   | 83672               | 17.353 | ug/l # | 85       |
| 42) Vinyl Acetate            | 6.594          | 43   | 777536              | 88.211 | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087731.D  
 Acq On : 04 Sep 2025 18:28  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

ICVVN090425

## Manual Integrations

## APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025  
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 03:32:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 03:29:53 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 93344    | 17.318  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 147433   | 17.448  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 18809    | 352.976 | ug/l # | 53       |
| 46) Methyl methacrylate       | 9.665  | 41   | 67807    | 17.410  | ug/l   | 93       |
| 47) n-amyl Acetate            | 12.570 | 43   | 86602m   | 15.166  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 85569    | 17.087  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 88428    | 17.239  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 53774    | 17.648  | ug/l   | 89       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 82131    | 17.320  | ug/l   | 94       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 93581    | 17.687  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 59265    | 17.347  | ug/l   | 92       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 54662    | 17.241  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 233941   | 86.104  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 39062    | 17.508  | ug/l   | 96       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 460953   | 88.138  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.182 | 43   | 291153   | 85.197  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 38600    | 17.528  | ug/l   | 95       |
| 62) Toluene                   | 10.612 | 91   | 238533   | 17.829  | ug/l   | 98       |
| 64) Chlorobenzene             | 11.870 | 112  | 142733   | 17.382  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 49466    | 17.110  | ug/l   | 97       |
| 66) Ethyl Benzene             | 11.941 | 91   | 250582   | 17.361  | ug/l   | 93       |
| 67) m/p-Xylenes               | 12.047 | 106  | 185180   | 34.562  | ug/l   | 95       |
| 68) o-Xylene                  | 12.376 | 106  | 90271    | 17.377  | ug/l   | 98       |
| 69) Styrene                   | 12.394 | 104  | 151670   | 16.798  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.670 | 105  | 224221   | 17.022  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.912 | 83   | 83832    | 17.703  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 79021m   | 16.995  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 55283    | 17.154  | ug/l   | 96       |
| 74) n-propylbenzene           | 13.012 | 91   | 284881   | 17.141  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 171781   | 17.173  | ug/l   | 96       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 193466   | 17.393  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 23921    | 15.243  | ug/l   | 75       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 184349   | 18.280  | ug/l   | 96       |
| 79) tert-butylbenzene         | 13.412 | 119  | 162429   | 17.436  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 195624   | 17.154  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 238215   | 17.385  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 195729   | 17.337  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 106089   | 17.075  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 107657   | 17.287  | ug/l   | 98       |
| 85) n-Butylbenzene            | 14.035 | 91   | 188710   | 17.390  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.312 | 117  | 41219    | 17.975  | ug/l   | 99       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 105569   | 18.016  | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 19130    | 18.204  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 58341    | 17.505  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 20419    | 18.275  | ug/l   | 95       |
| 91) Naphthalene               | 15.617 | 128  | 208469   | 16.990  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 58341    | 17.505  | ug/l   | 98       |

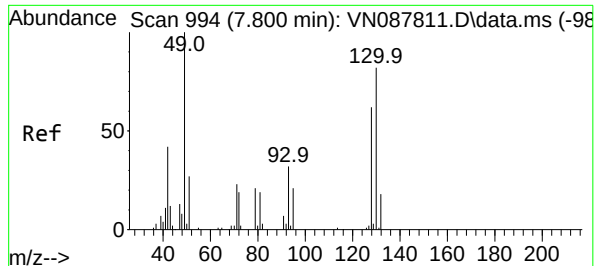
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
ICVVN090425

## Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025





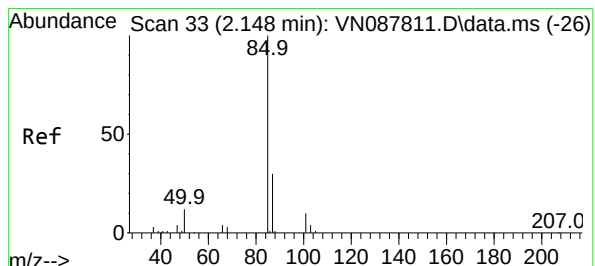
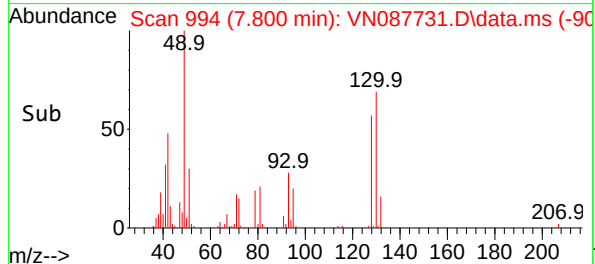
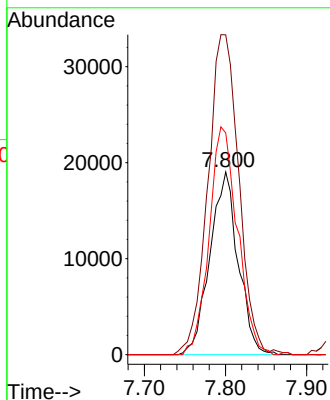
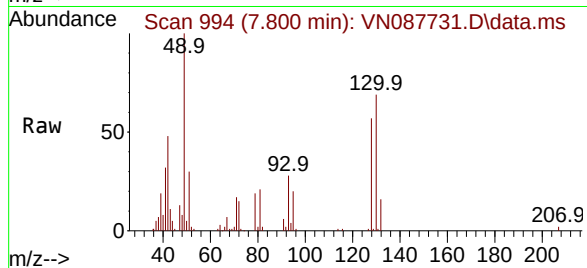
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion:128 Resp: 45925  
Ion Ratio Lower Upper  
128 100  
49 191.5 0.0 464.3  
130 125.8 0.0 300.5

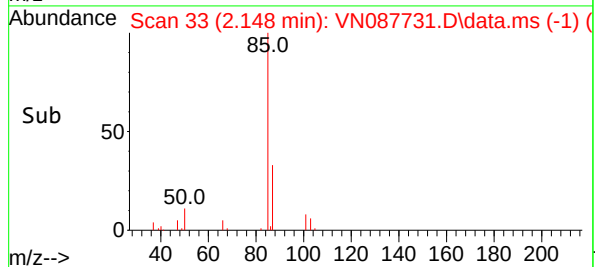
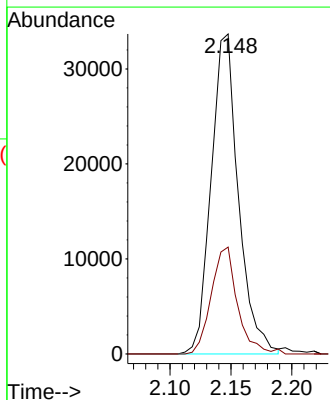
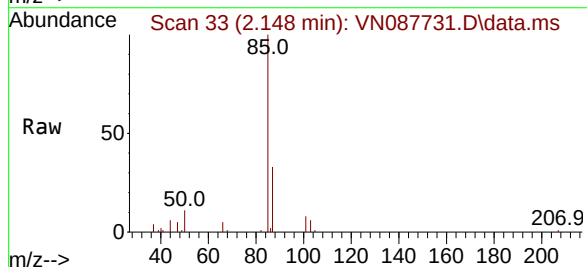
Manual Integrations  
APPROVED

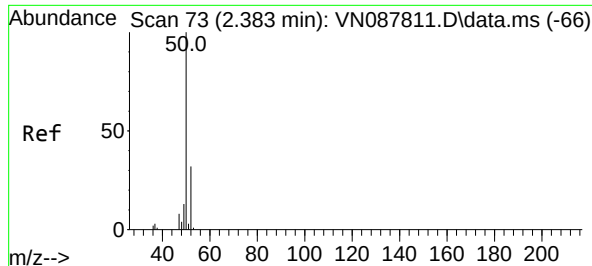
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#2  
Dichlorodifluoromethane  
Concen: 18.370 ug/l  
RT: 2.148 min Scan# 33  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 85 Resp: 52434  
Ion Ratio Lower Upper  
85 100  
87 33.4 16.8 50.4





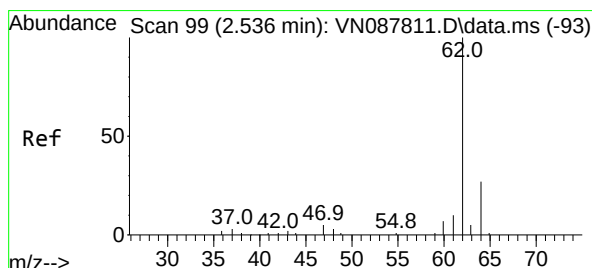
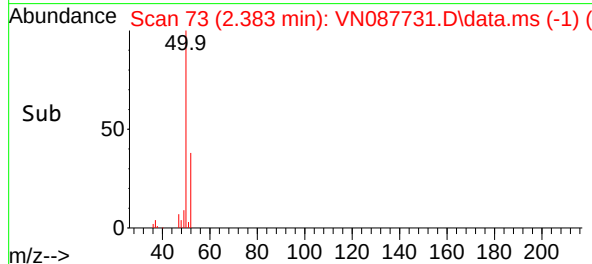
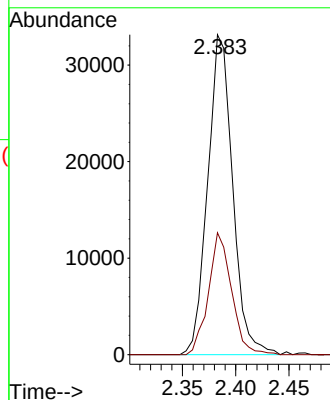
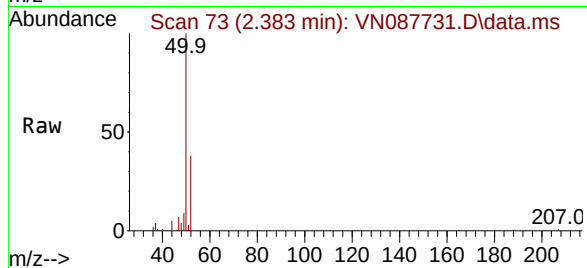
#3  
Chloromethane  
Concen: 18.050 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVNVN090425

Tgt Ion: 50 Resp: 5408  
Ion Ratio Lower Upper  
50 100  
52 38.1 26.6 40.0

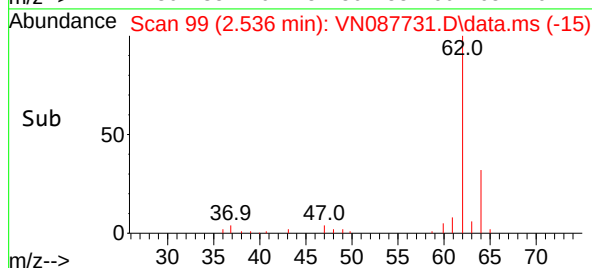
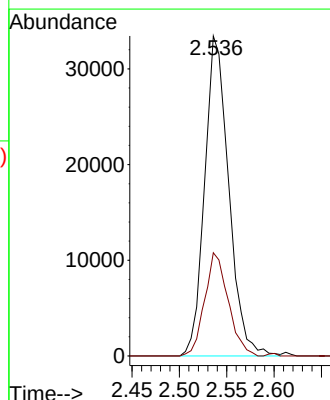
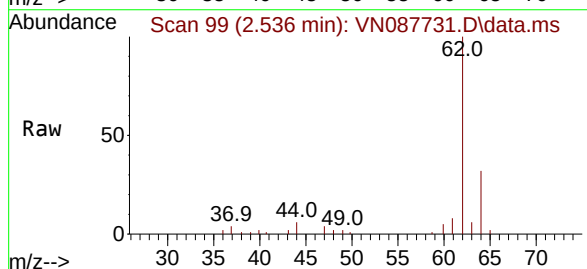
Manual Integrations  
APPROVED

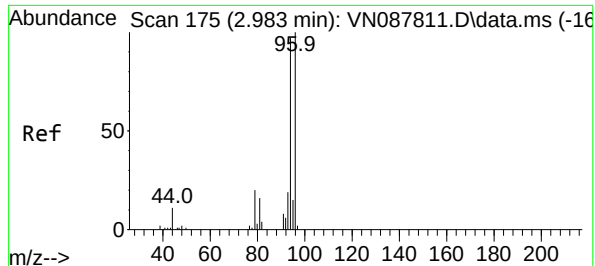
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#4  
Vinyl Chloride  
Concen: 17.504 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 62 Resp: 59288  
Ion Ratio Lower Upper  
62 100  
64 32.2 25.5 38.3





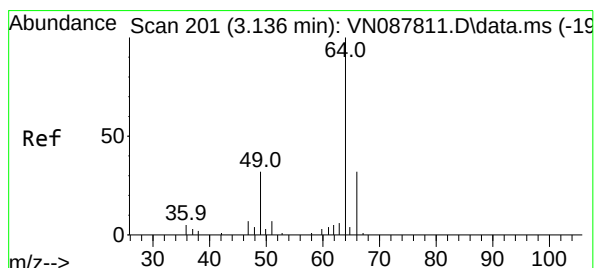
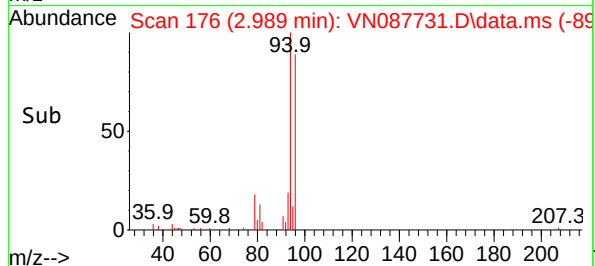
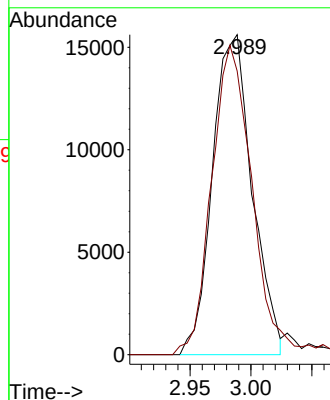
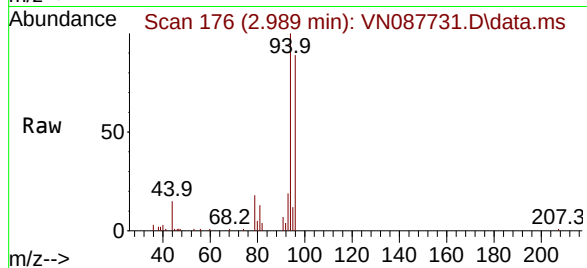
#5  
Bromomethane  
Concen: 17.846 ug/l  
RT: 2.989 min Scan# 176  
Delta R.T. 0.012 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVNVN090425

Tgt Ion: 94 Resp: 35460  
Ion Ratio Lower Upper  
94 100  
96 86.0 72.2 108.4

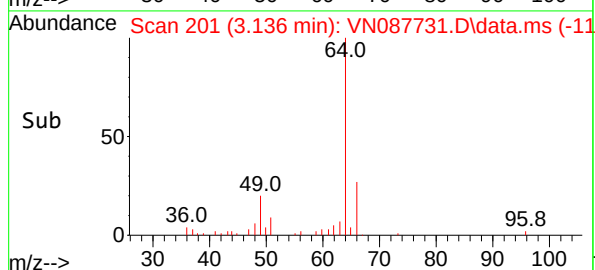
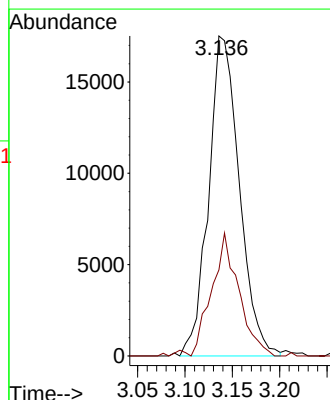
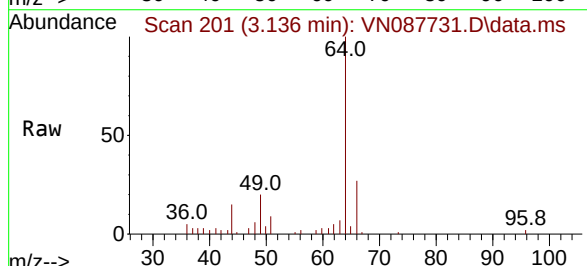
Manual Integrations  
APPROVED

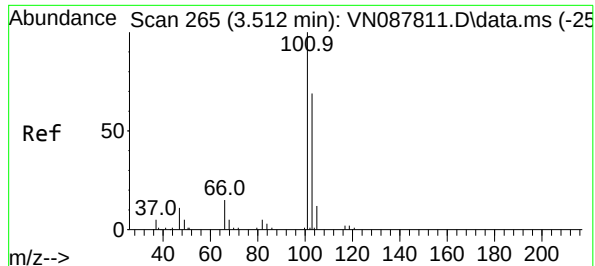
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#6  
Chloroethane  
Concen: 17.094 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 64 Resp: 39572  
Ion Ratio Lower Upper  
64 100  
66 26.9 32.8 49.2#





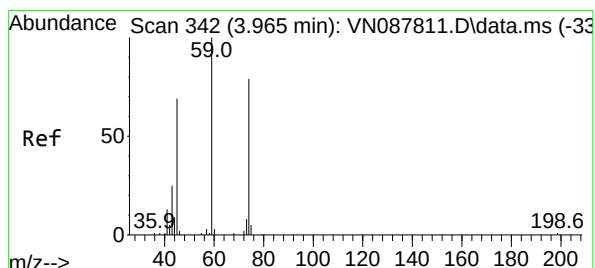
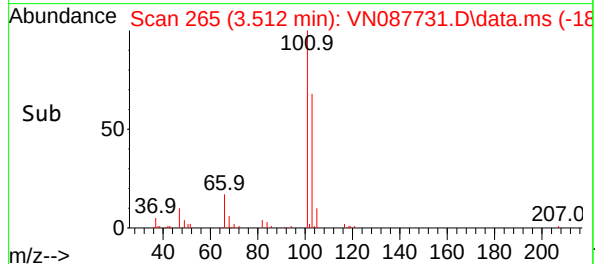
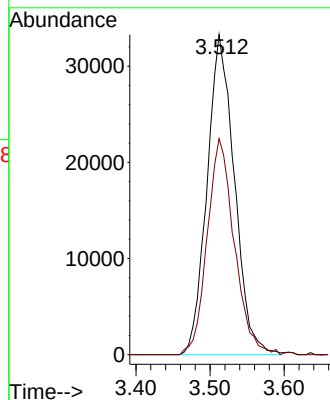
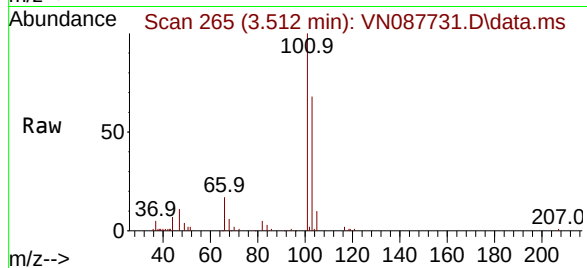
#7  
Trichlorofluoromethane  
Concen: 17.175 ug/l  
RT: 3.512 min Scan# 201  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion:101 Resp: 8526  
Ion Ratio Lower Upper  
101 100  
103 67.5 45.7 68.5

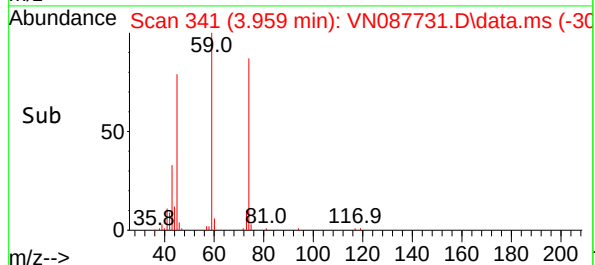
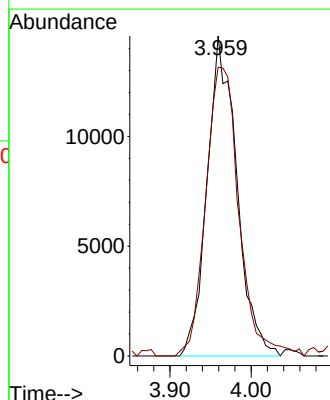
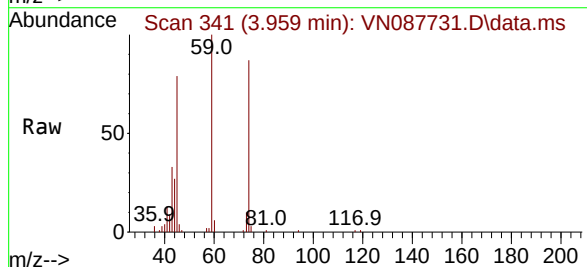
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

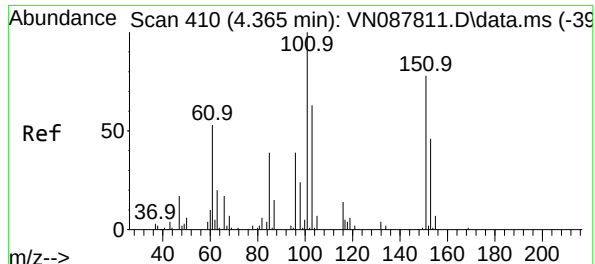


#8  
Diethyl Ether  
Concen: 17.632 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 74 Resp: 36966  
Ion Ratio Lower Upper  
74 100  
45 100.9 20.4 183.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.189 ug/l

RT: 4.371 min Scan# 411

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

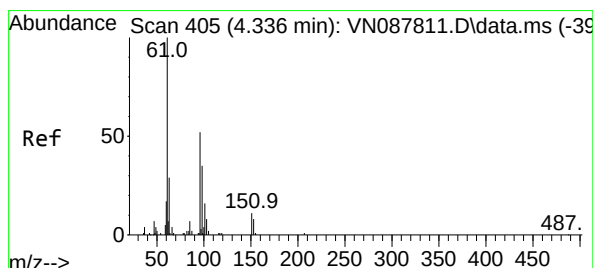
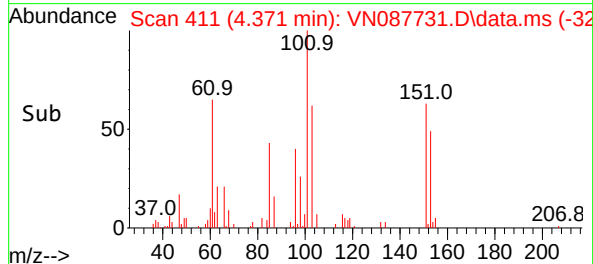
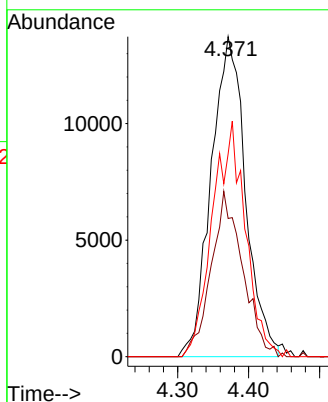
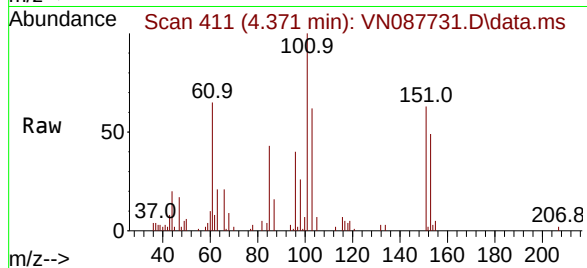
ICVNVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 4622  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 46.9  | 0.0   | 95.6  |
| 151      | 40.1  | 0.0   | 85.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#10

1,1-Dichloroethene

Concen: 17.494 ug/l

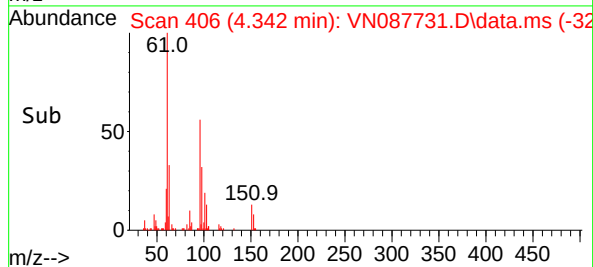
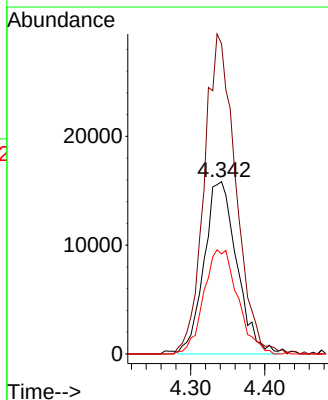
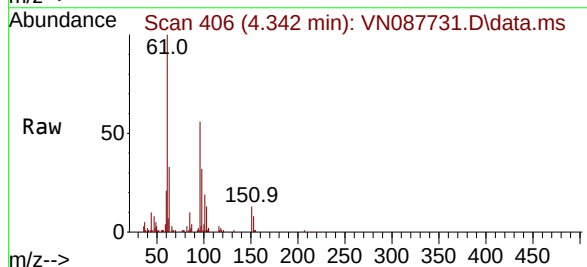
RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

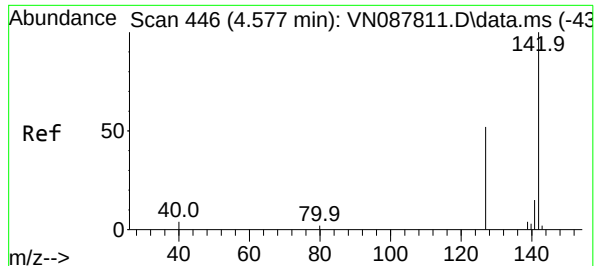
Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 48502 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 179.9 | 135.9 | 203.9 |
| 98       | 58.6  | 59.2  | 88.8  |







#11

Methyl Iodide

Concen: 15.097 ug/l m

RT: 4.594 min Scan# 44

Delta R.T. 0.012 min

Lab File: VN087731.D

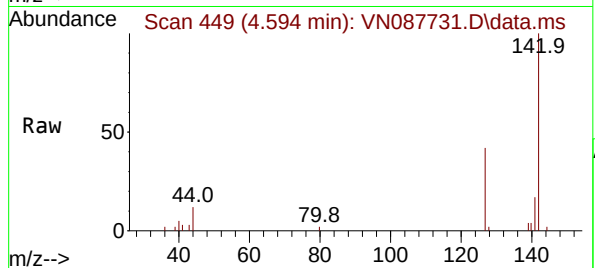
Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVNVN090425



Tgt Ion:142 Resp: 29628

Ion Ratio Lower Upper

142 100

127 41.7 27.9 83.7

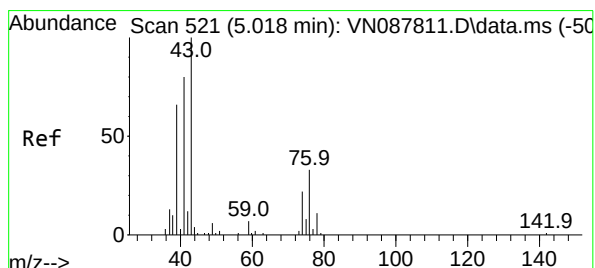
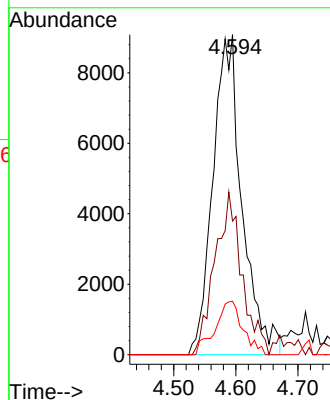
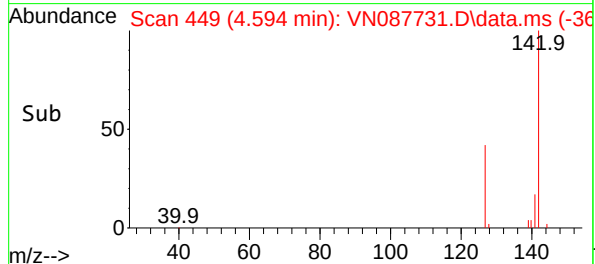
141 16.7 9.6 28.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 18.262 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087731.D

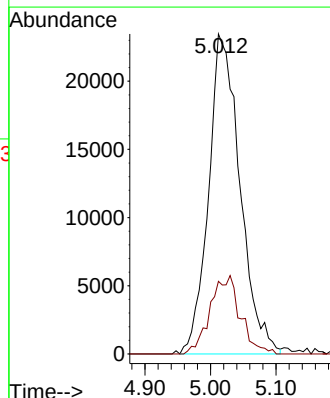
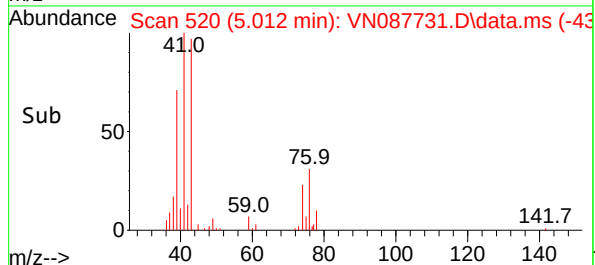
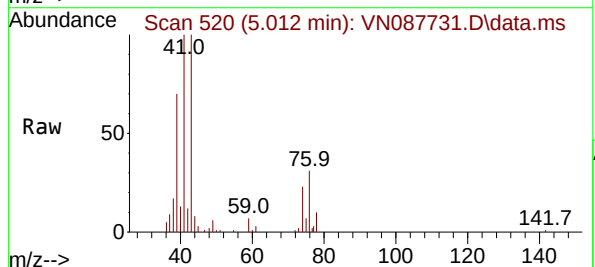
Acq: 04 Sep 2025 18:28

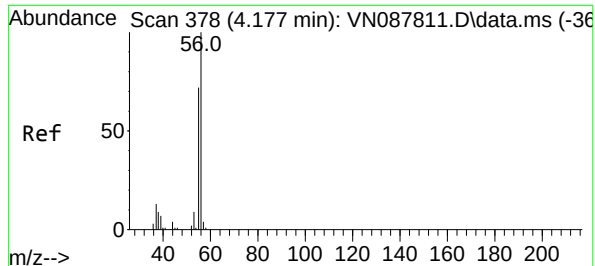
Tgt Ion: 43 Resp: 78049

Ion Ratio Lower Upper

43 100

74 22.9 17.5 26.3





#13

Acrolein

Concen: 91.132 ug/l m

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 56 Resp: 69340

Ion Ratio Lower Upper

56 100

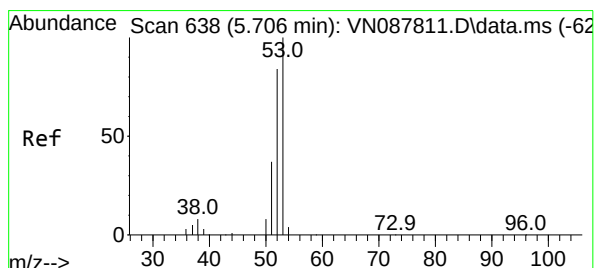
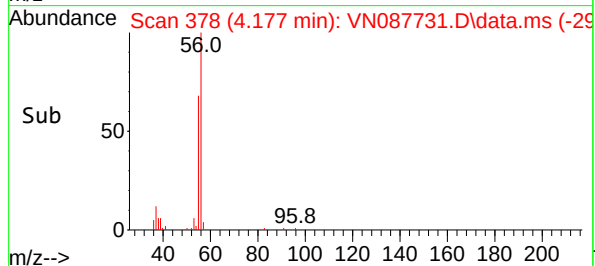
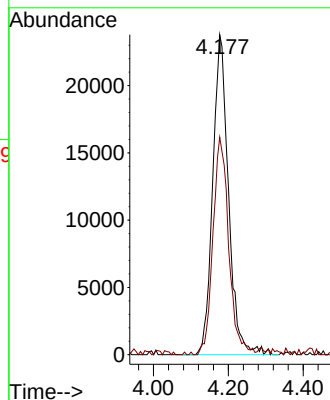
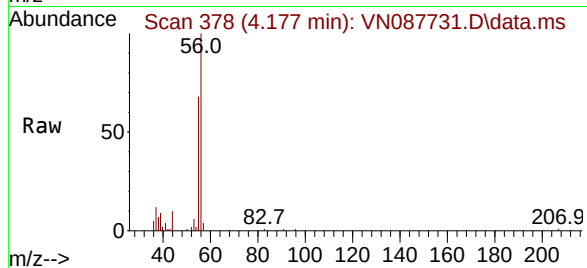
55 0.3 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 88.404 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

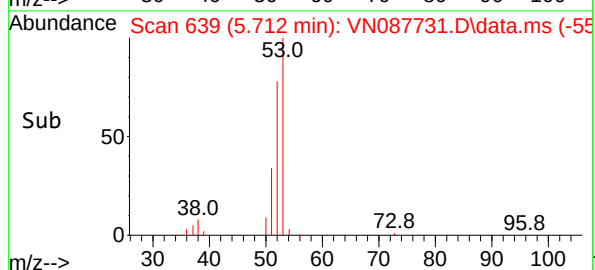
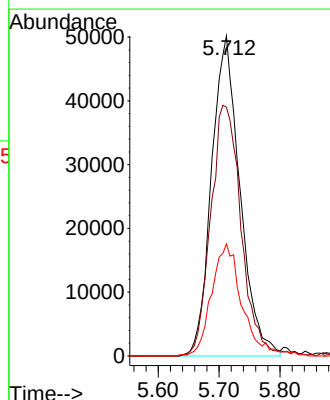
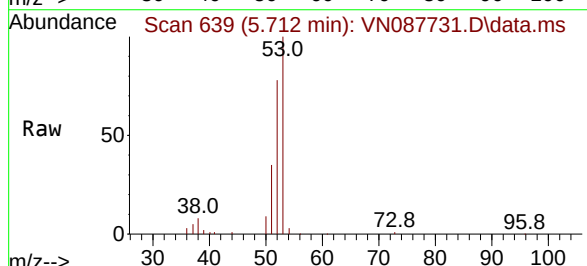
Tgt Ion: 53 Resp: 162624

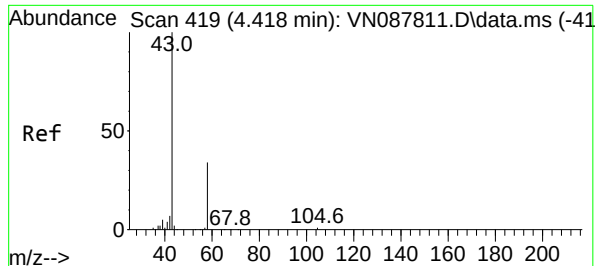
Ion Ratio Lower Upper

53 100

52 82.7 40.9 122.7

51 35.6 18.1 54.1





#15

Acetone

Concen: 84.645 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 58 Resp: 4857

Ion Ratio Lower Upper

58 100

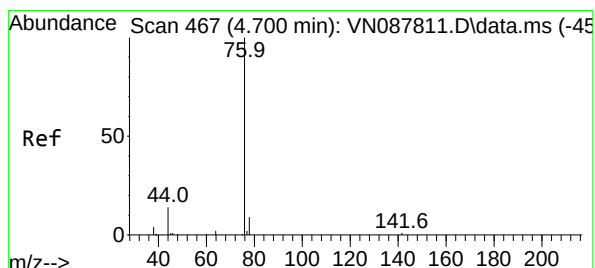
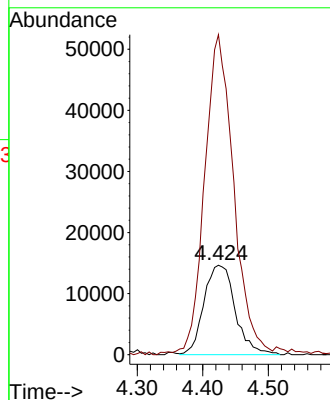
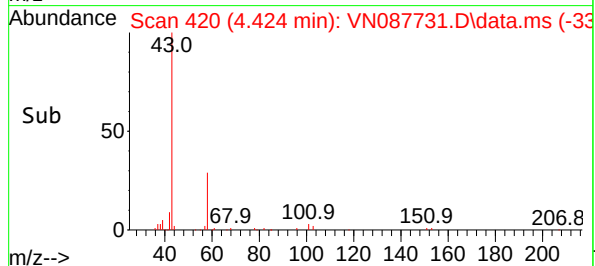
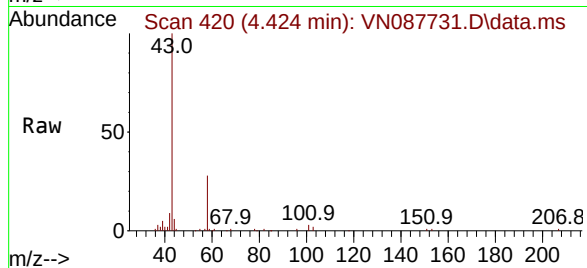
43 351.1 250.6 376.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#16

Carbon Disulfide

Concen: 17.930 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN087731.D

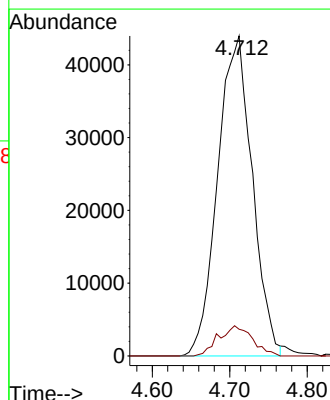
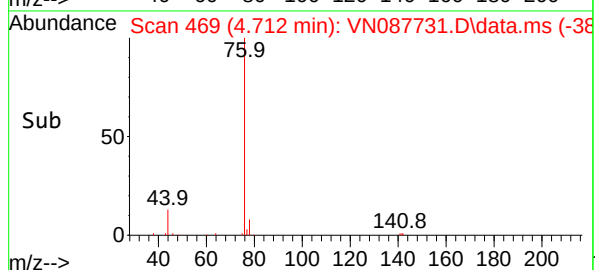
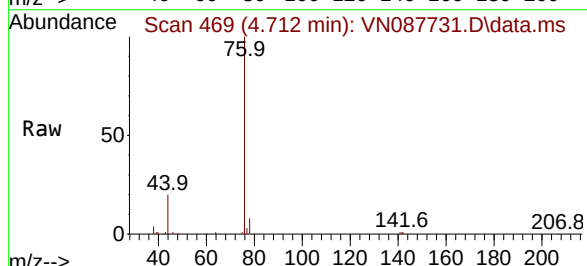
Acq: 04 Sep 2025 18:28

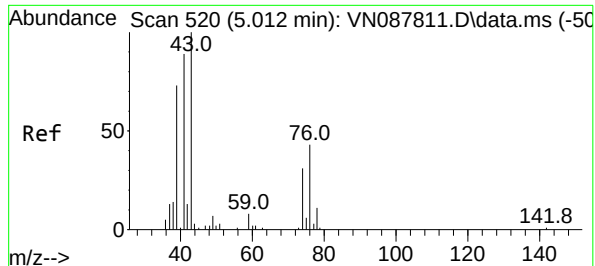
Tgt Ion: 76 Resp: 136485

Ion Ratio Lower Upper

76 100

78 8.4 5.0 7.6#





#17

Allyl chloride

Concen: 17.065 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

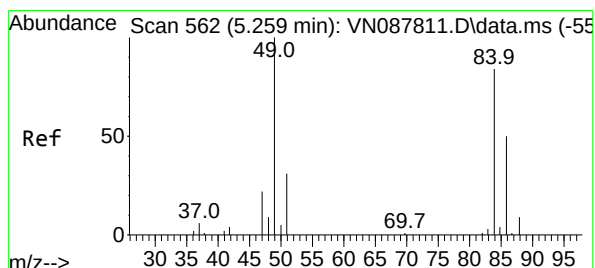
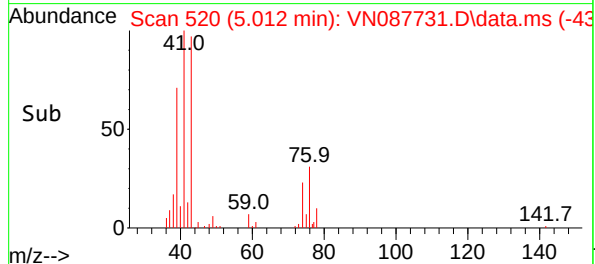
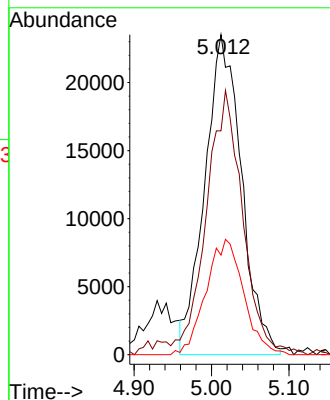
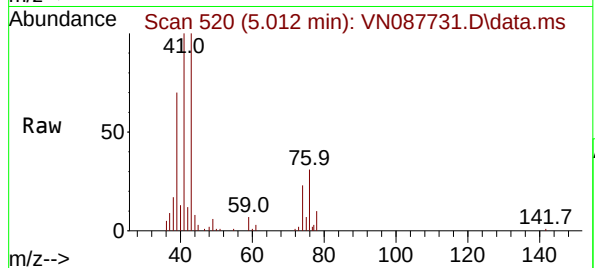
ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 77270 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 68.5  | 36.7  | 110.1 |
| 76       | 33.2  | 18.3  | 54.8  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 17.804 ug/l

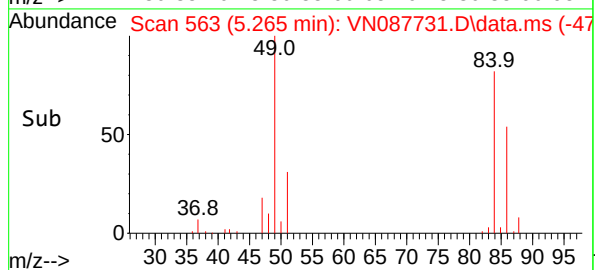
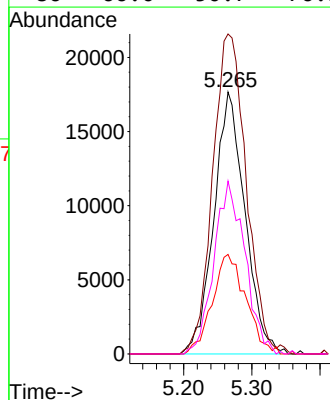
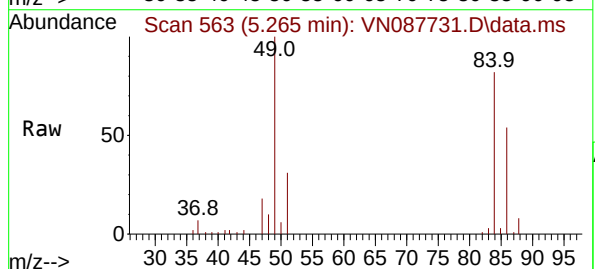
RT: 5.265 min Scan# 563

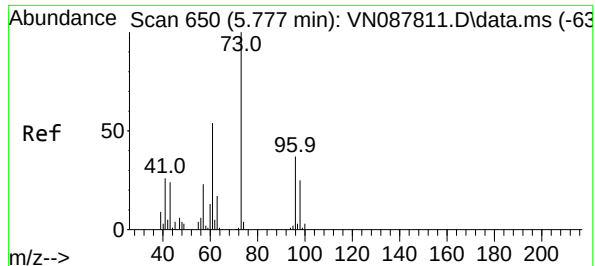
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 55915 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.2 | 114.1 | 171.1 |
| 51       | 38.0  | 30.2  | 45.4  |
| 86       | 66.0  | 50.7  | 76.1  |





#19

trans-1,2-Dichloroethene

Concen: 17.581 ug/l

RT: 5.777 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

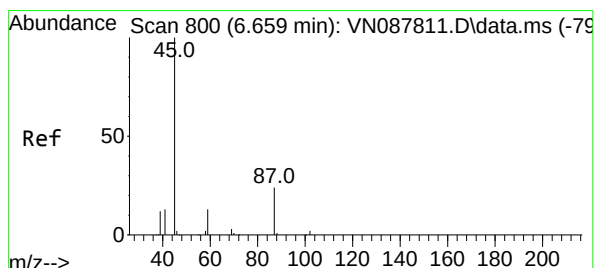
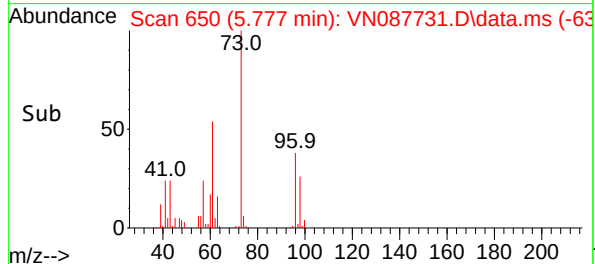
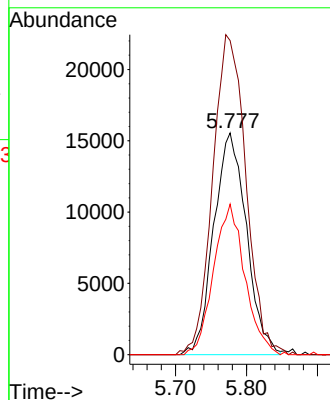
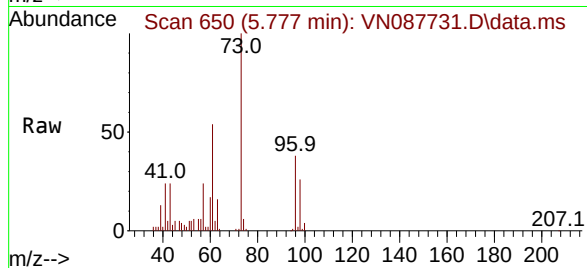
ICVNVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4971  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 139.8 | 106.4 | 159.6 |
| 98       | 67.9  | 48.9  | 73.3  |

## Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 16.633 ug/l

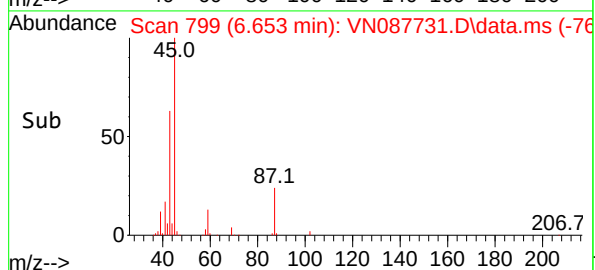
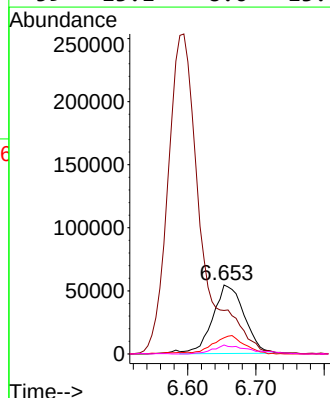
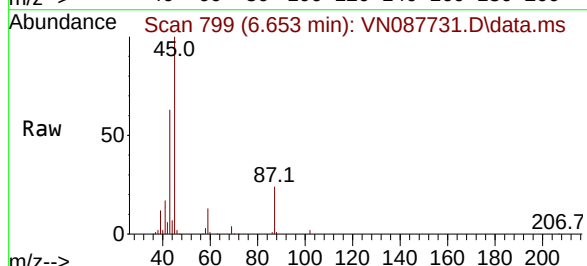
RT: 6.653 min Scan# 799

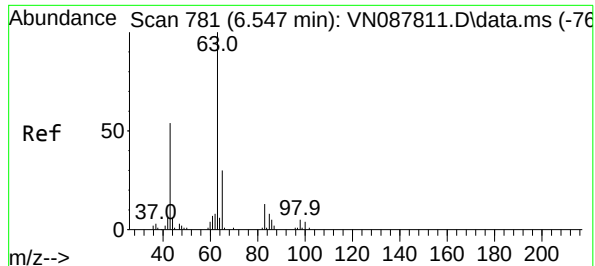
Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 173212 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 61.5  | 49.5  | 74.3   |
| 87       | 23.4  | 18.8  | 28.2   |
| 59       | 13.1  | 8.6   | 13.0   |





#21

1,1-Dichloroethane

Concen: 17.627 ug/l

RT: 6.553 min Scan# 781

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

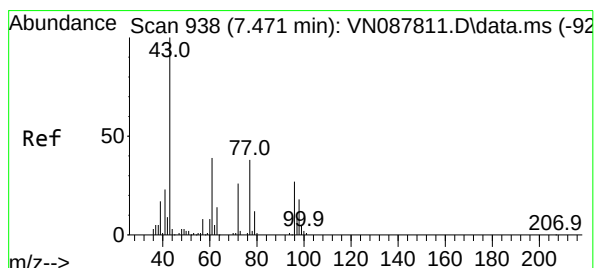
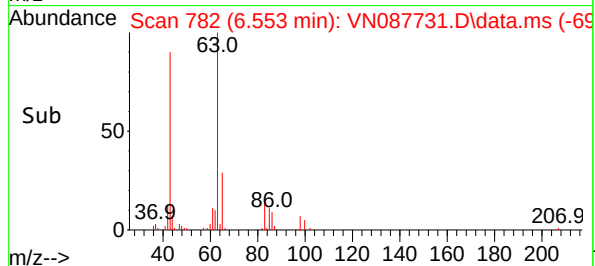
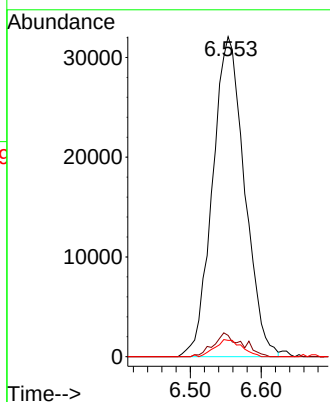
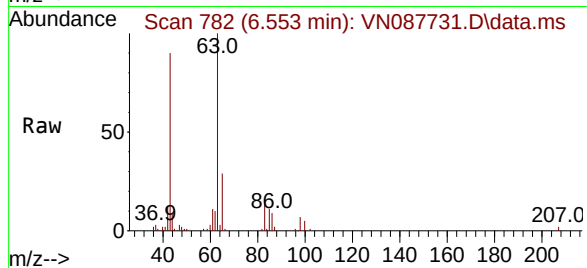
ClientSampleId :

ICVNVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 10052 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 6.7   | 2.9   | 8.8   |
| 100      | 5.1   | 1.8   | 5.3   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 17.296 ug/l

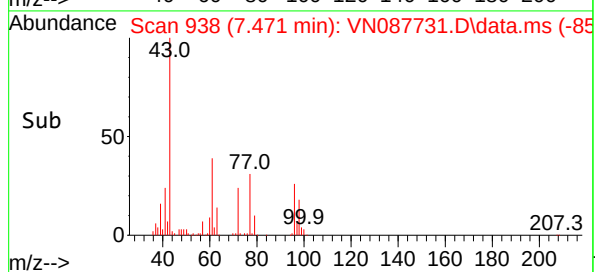
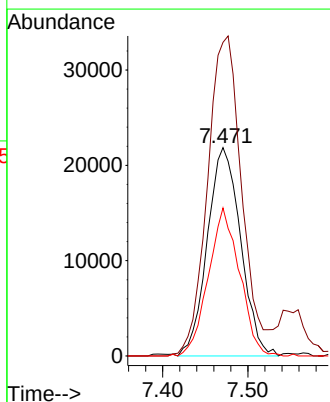
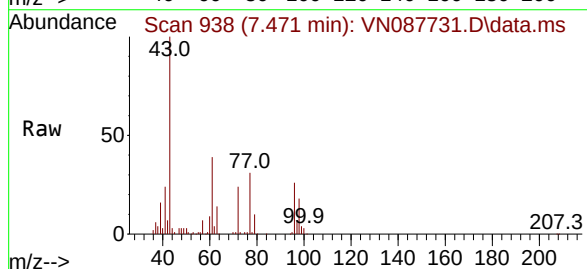
RT: 7.471 min Scan# 938

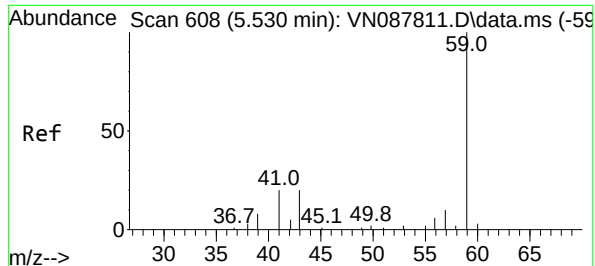
Delta R.T. 0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 59360 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 155.8 | 118.2 | 177.2 |
| 98       | 66.3  | 51.6  | 77.4  |





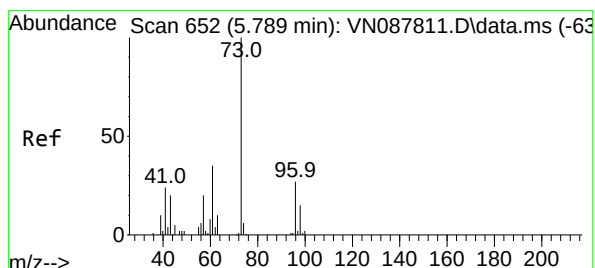
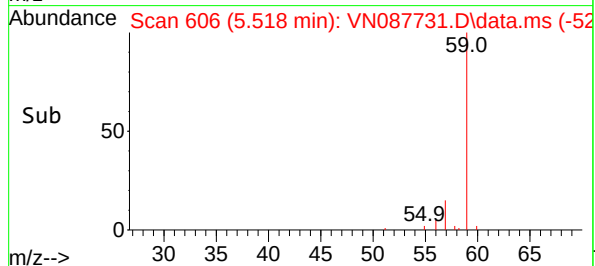
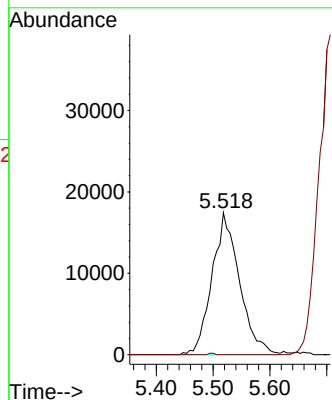
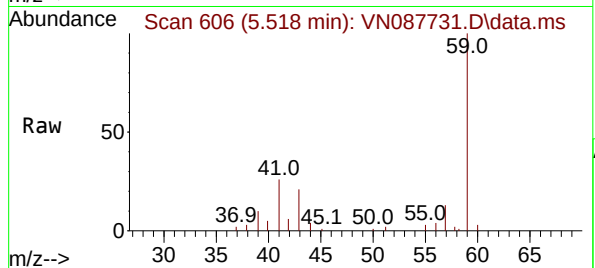
#23  
tert-Butyl Alcohol  
Concen: 90.020 ug/l  
RT: 5.518 min Scan# 608  
Delta R.T. -0.012 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion: 59 Resp: 58538  
Ion Ratio Lower Upper  
59 100  
52 0.2 0.0 0.0

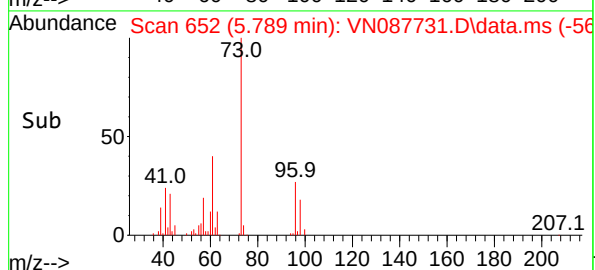
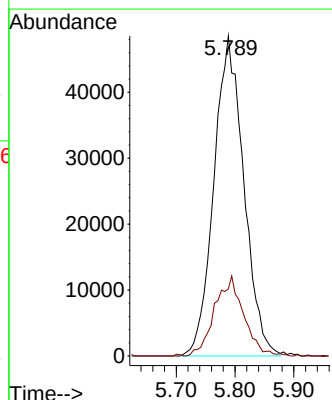
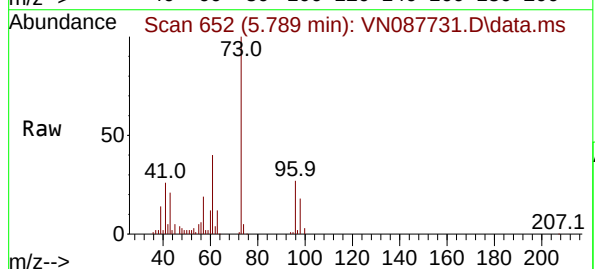
Manual Integrations  
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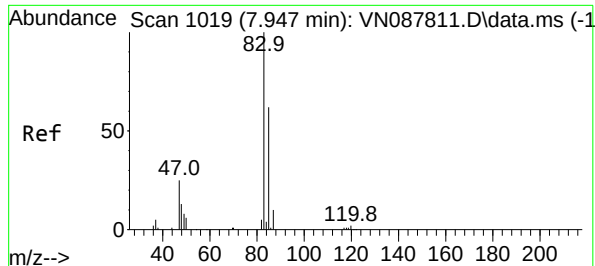
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#24  
Methyl tert-Butyl Ether  
Concen: 17.297 ug/l  
RT: 5.789 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 73 Resp: 171206  
Ion Ratio Lower Upper  
73 100  
43 13.2 16.8 25.2#





#25

Chloroform

Concen: 17.349 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 83 Resp: 10355

Ion Ratio Lower Upper

83 100

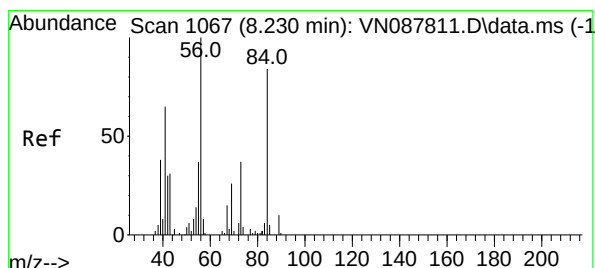
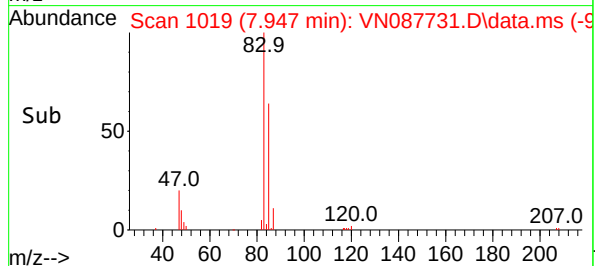
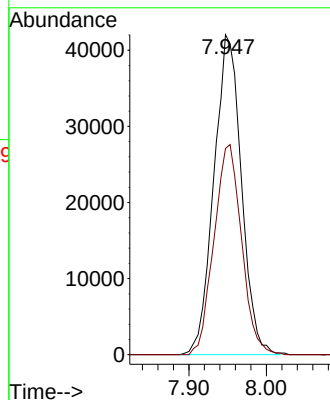
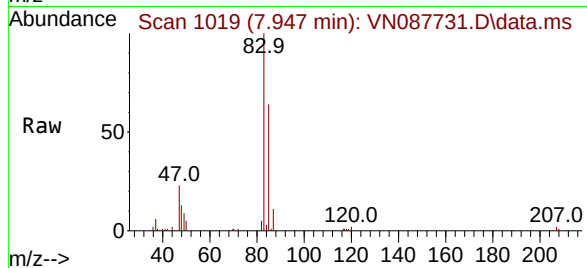
85 64.5 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 17.359 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

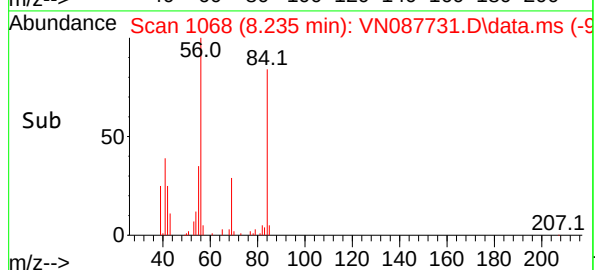
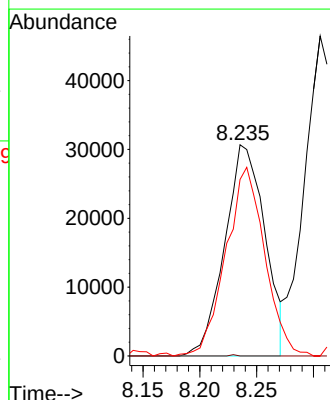
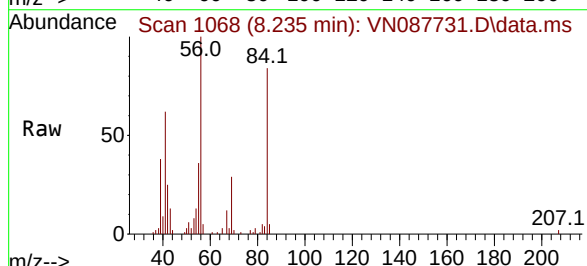
Tgt Ion: 56 Resp: 75387

Ion Ratio Lower Upper

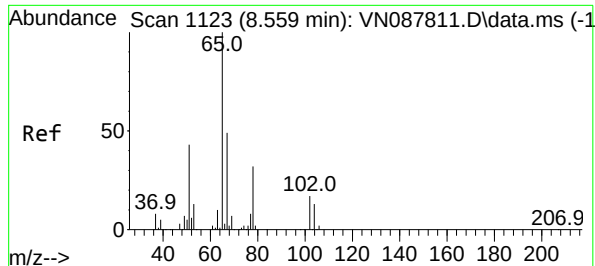
56 100

89 0.0 0.0 0.0

84 86.5 69.4 104.2







#27

1,2-Dichloroethane-d4

Concen: 30.234 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 65 Resp: 118609

Ion Ratio Lower Upper

65 100

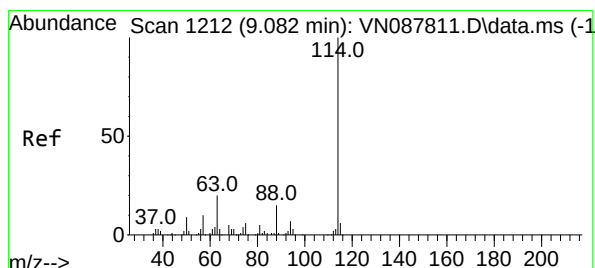
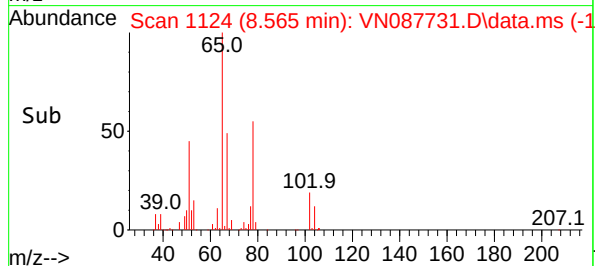
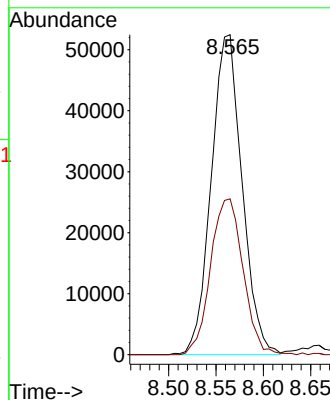
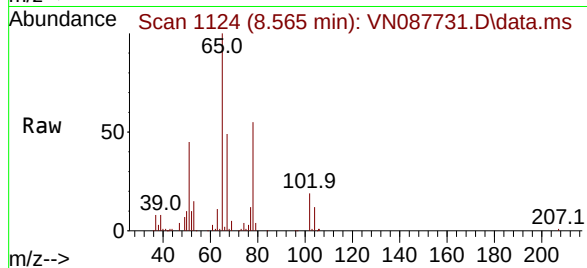
67 51.2 39.6 59.4

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: VN087731.D

Acq: 04 Sep 2025 18:28

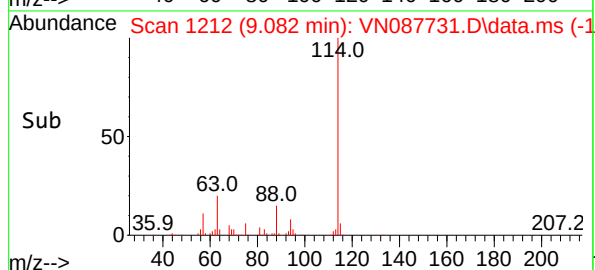
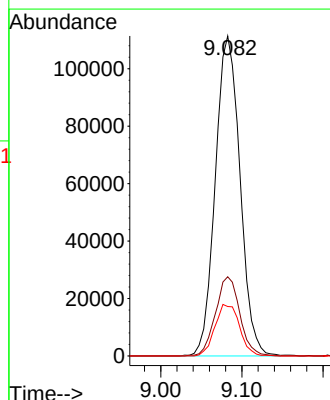
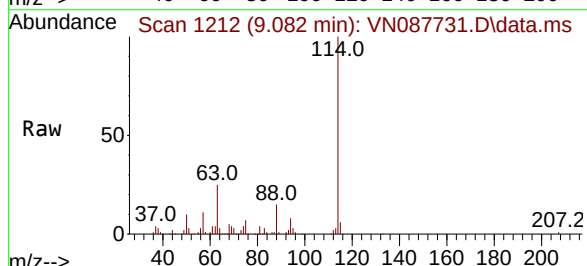
Tgt Ion:114 Resp: 235644

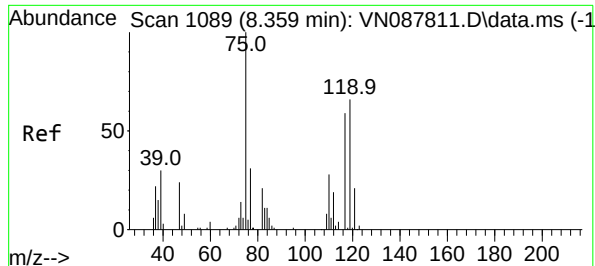
Ion Ratio Lower Upper

114 100

63 24.3 18.3 27.5

88 16.0 12.4 18.6





#29

1,1-Dichloropropene

Concen: 17.099 ug/l

RT: 8.347 min Scan# 1087

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

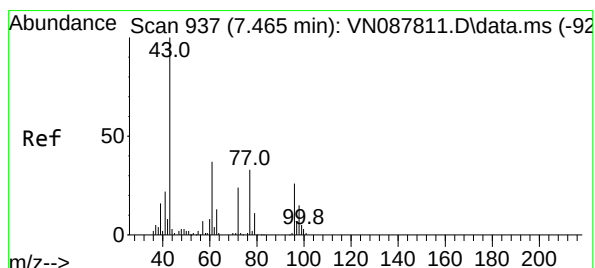
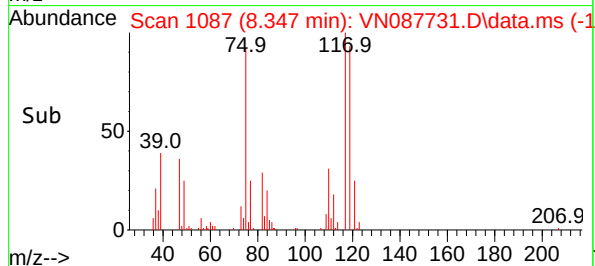
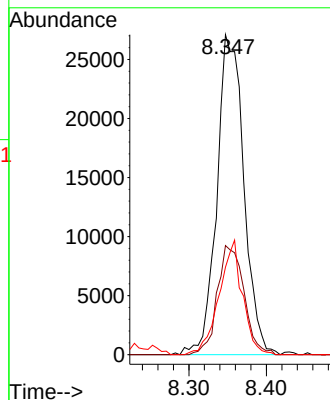
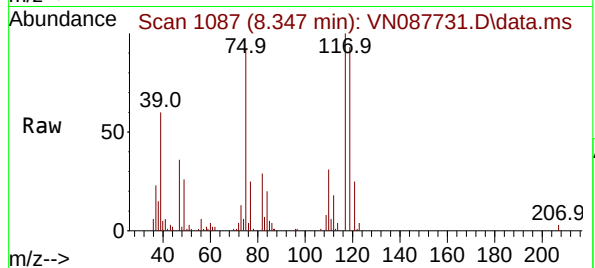
ClientSampleId :

ICVVN090425

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 6548 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 110       | 33.8  | 0.0   | 64.4 |
| 77        | 31.1  | 0.0   | 62.2 |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 87.744 ug/l

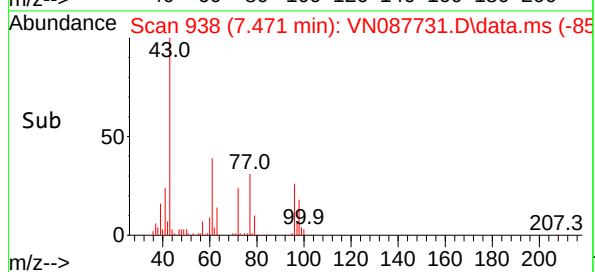
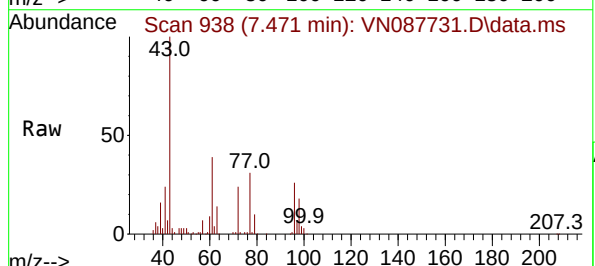
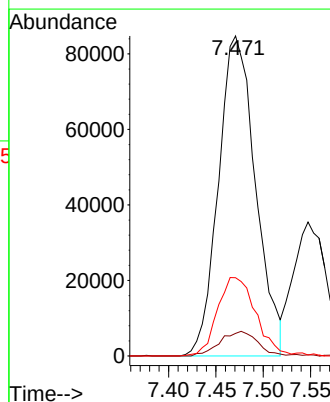
RT: 7.471 min Scan# 938

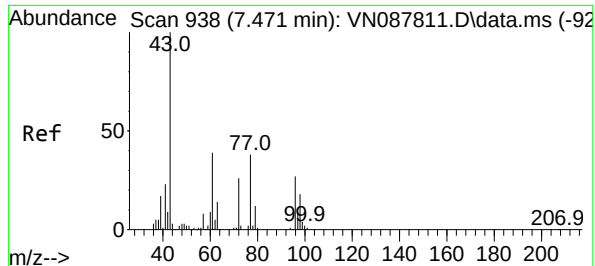
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 231480 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 57        | 7.7   | 6.3   | 9.5    |
| 72        | 25.2  | 21.4  | 32.2   |





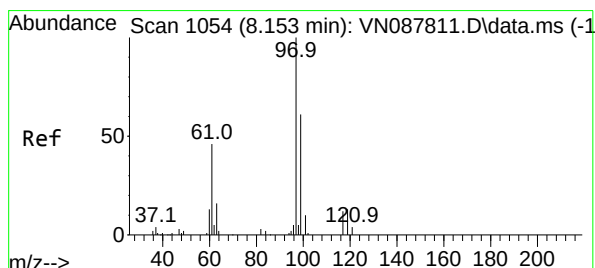
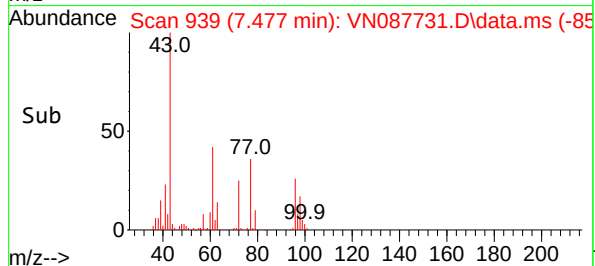
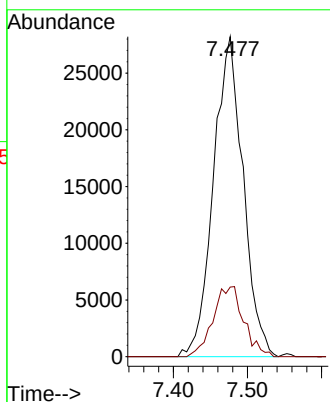
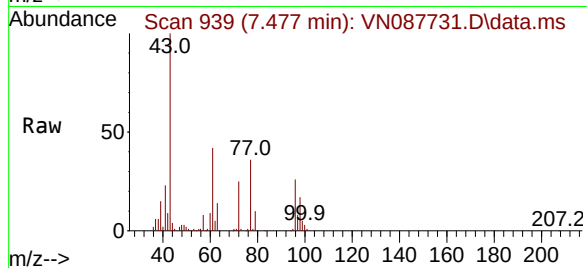
#31  
2,2-Dichloropropane  
Concen: 17.001 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion: 77 Resp: 7848  
Ion Ratio Lower Upper  
77 100  
97 11.0 17.1 25.7

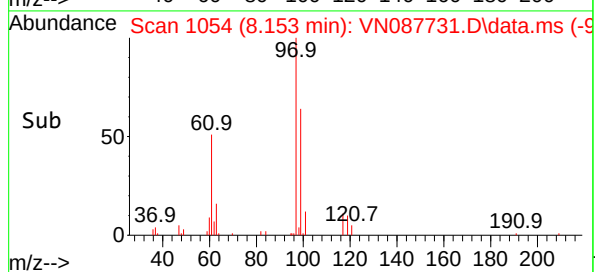
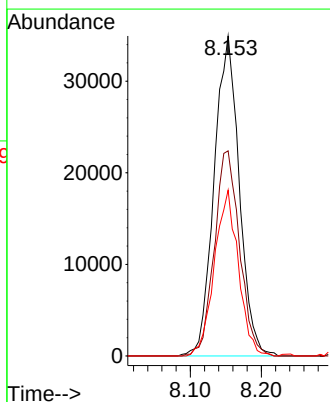
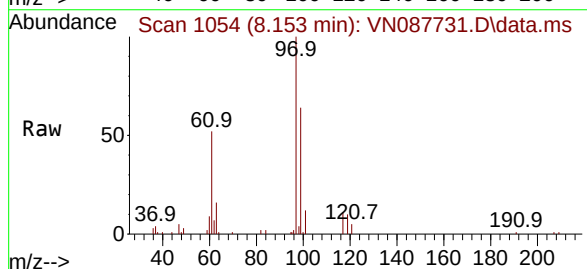
Manual Integrations  
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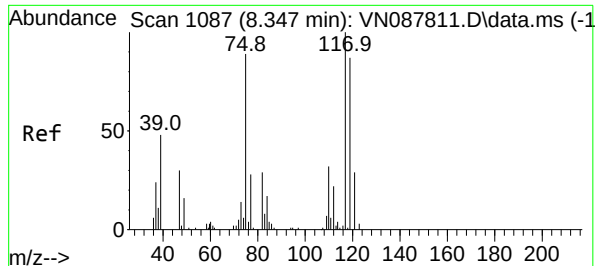
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#32  
1,1,1-Trichloroethane  
Concen: 17.650 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

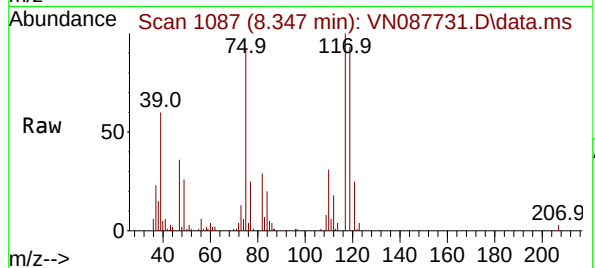
Tgt Ion: 97 Resp: 85693  
Ion Ratio Lower Upper  
97 100  
99 64.4 52.2 78.4  
61 49.5 37.9 56.9





#33  
Carbon Tetrachloride  
Concen: 17.204 ug/l  
RT: 8.347 min Scan# 1087  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

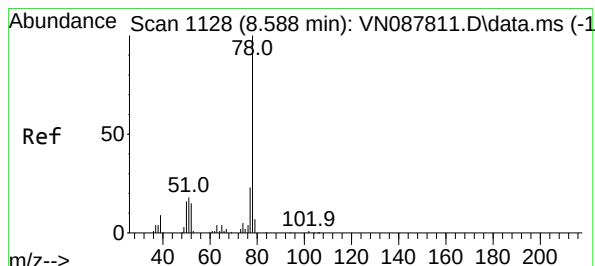
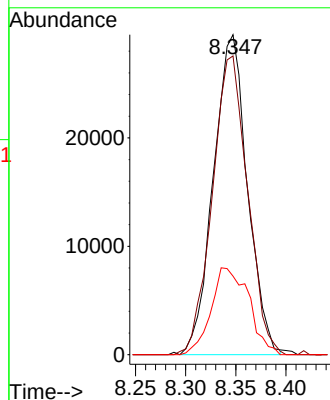
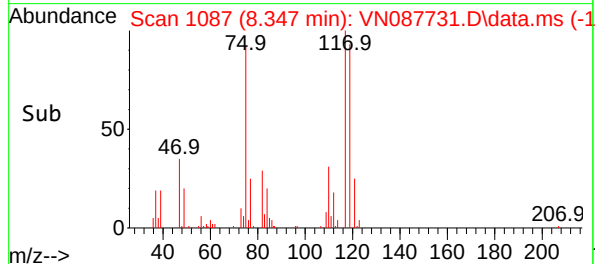
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVNVN090425



Tgt Ion: 117 Resp: 6964  
Ion Ratio Lower Upper  
117 100  
119 92.4 77.3 115.9  
121 24.6 26.6 39.8

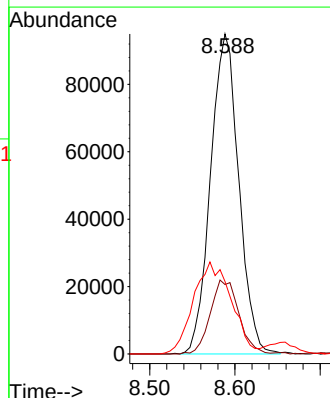
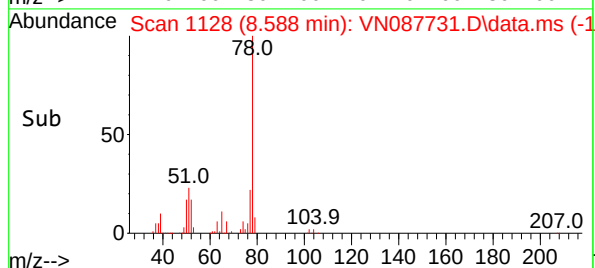
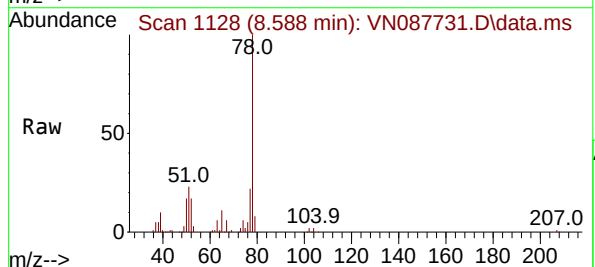
Manual Integrations  
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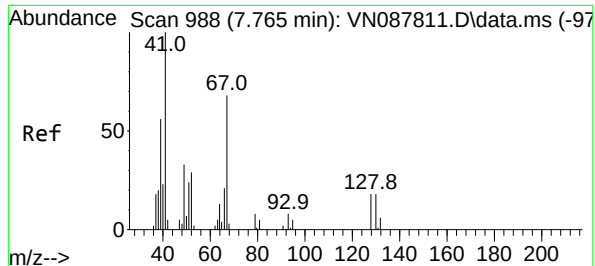
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#34  
Benzene  
Concen: 17.669 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 78 Resp: 218694  
Ion Ratio Lower Upper  
78 100  
77 21.7 20.3 30.5  
51 19.1 18.0 27.0





#35

Methacrylonitrile

Concen: 18.531 ug/l

RT: 7.765 min Scan# 911

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

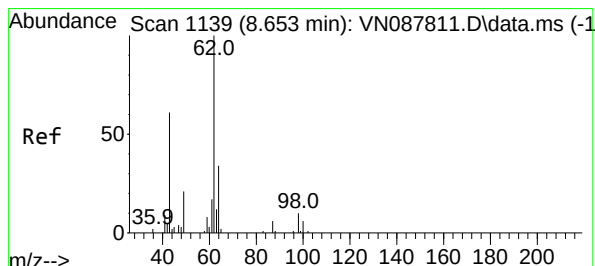
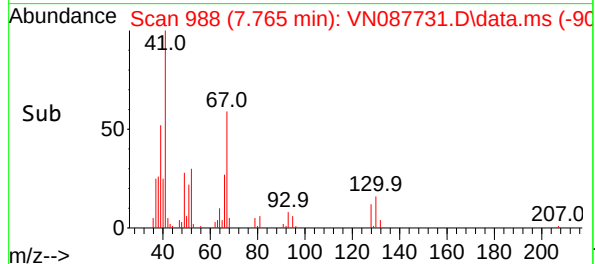
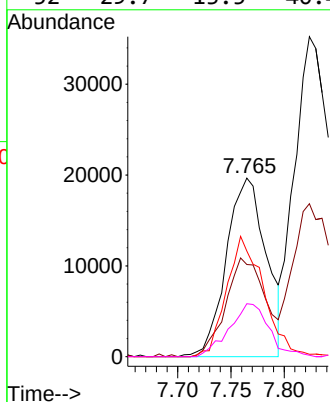
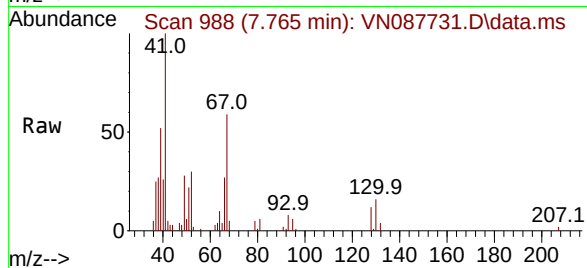
ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 5113  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 48.8  | 27.1  | 81.2  |
| 67       | 59.1  | 32.1  | 96.5  |
| 52       | 29.7  | 13.5  | 40.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 17.562 ug/l

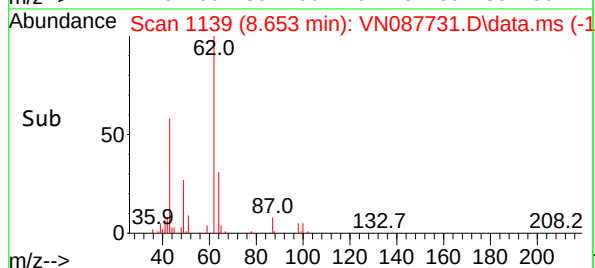
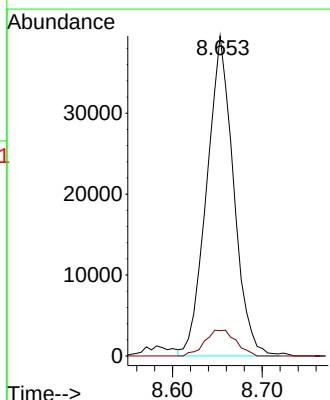
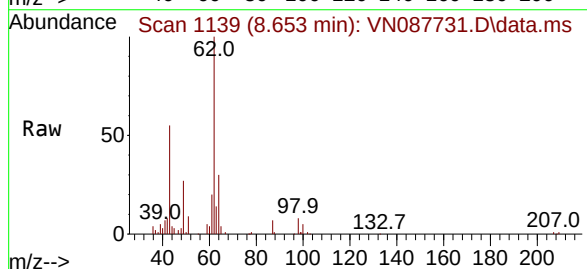
RT: 8.653 min Scan# 1139

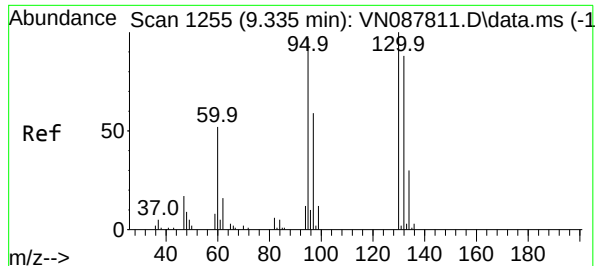
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 82106 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.4   | 7.2   | 10.8  |





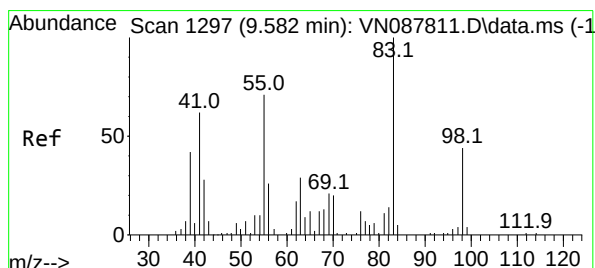
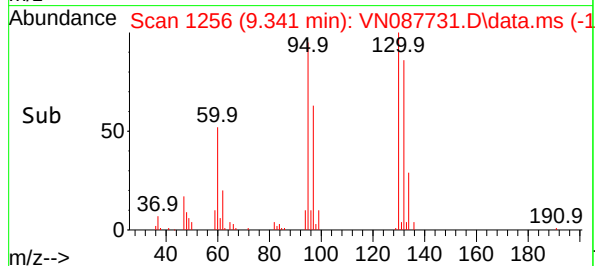
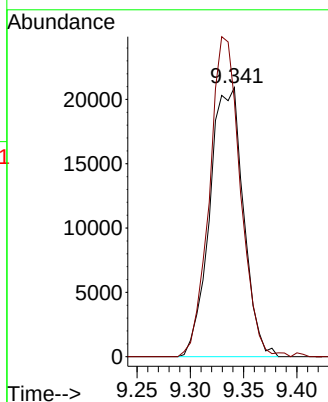
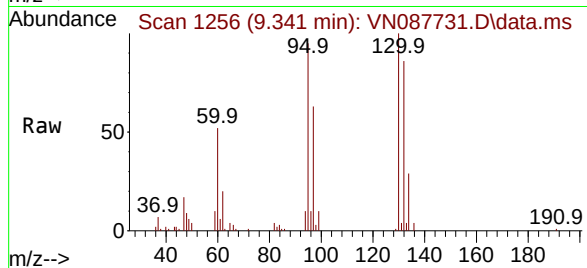
#37  
Trichloroethene  
Concen: 16.598 ug/l  
RT: 9.341 min Scan# 1255  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion:130 Resp: 45924  
Ion Ratio Lower Upper  
130 100  
95 95.3 82.7 124.1

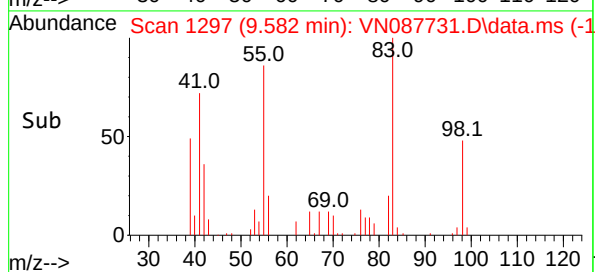
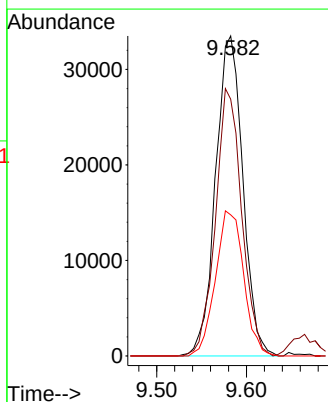
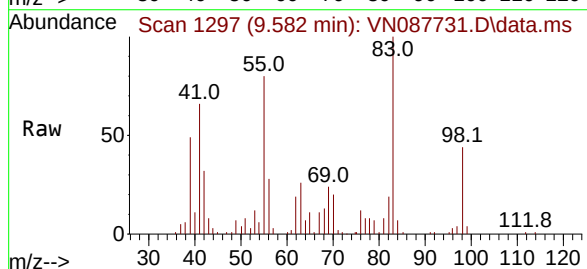
Manual Integrations  
APPROVED

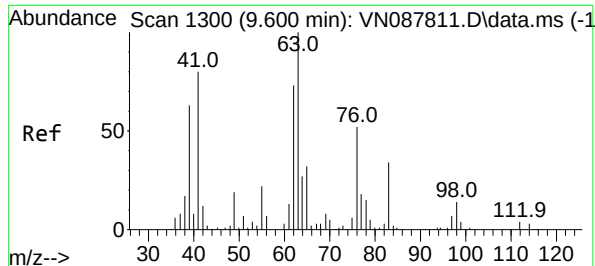
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#38  
Methylcyclohexane  
Concen: 16.745 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 83 Resp: 70612  
Ion Ratio Lower Upper  
83 100  
55 80.5 40.4 121.1  
98 46.9 24.0 72.0





#39

1,2-Dichloropropane

Concen: 17.248 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 63 Resp: 54670

Ion Ratio Lower Upper

63 100

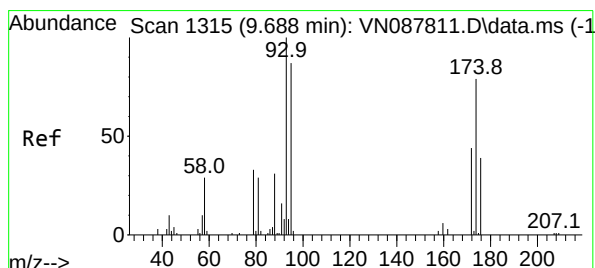
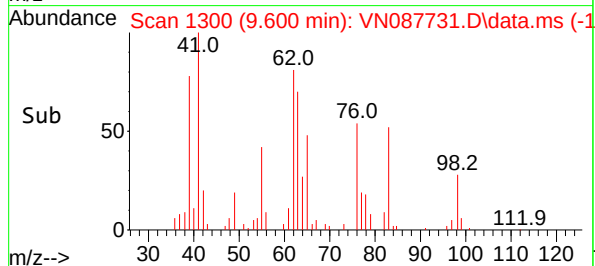
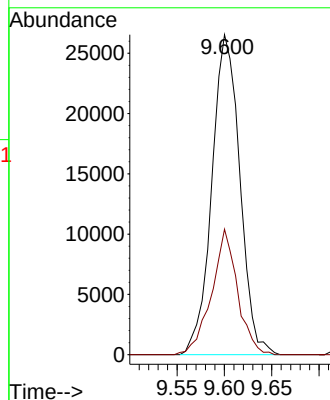
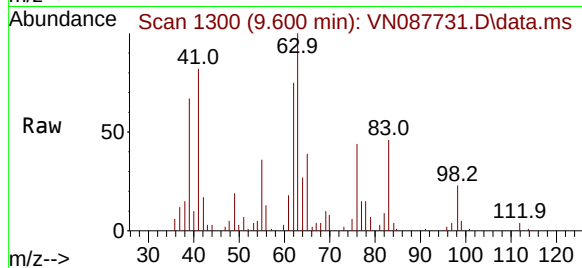
65 39.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 17.941 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

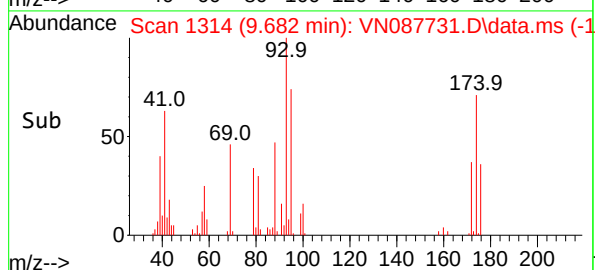
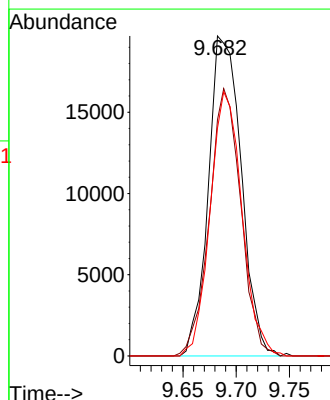
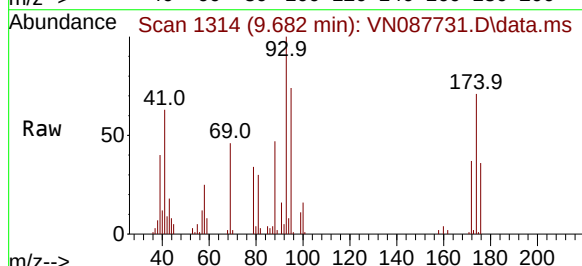
Tgt Ion: 93 Resp: 42325

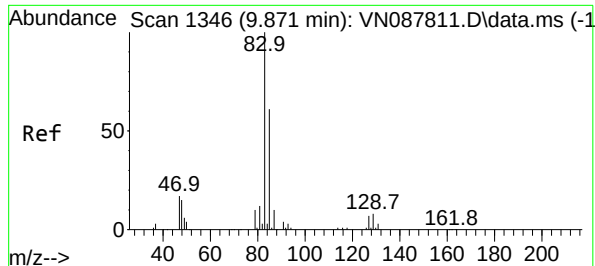
Ion Ratio Lower Upper

93 100

95 79.7 0.0 168.4

174 79.8 0.0 162.8





#41

Bromodichloromethane

Concen: 17.353 ug/l

RT: 9.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

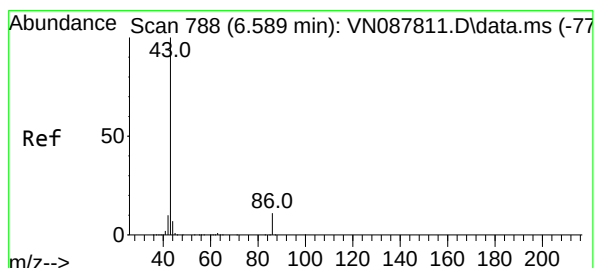
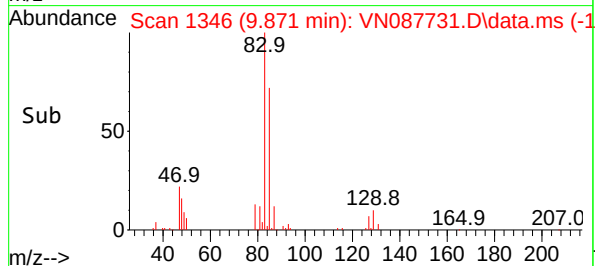
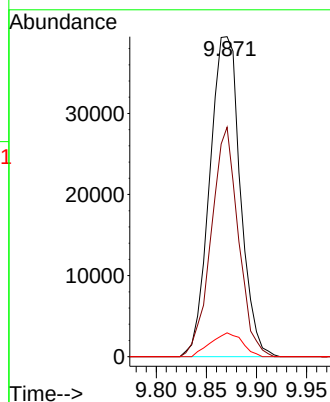
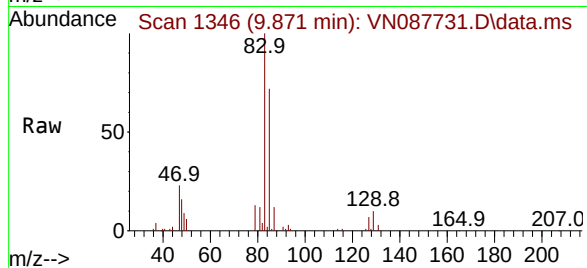
ICVNVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 83672 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 71.7  | 47.3  | 70.9  |
| 127      | 7.4   | 5.2   | 7.8   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#42

Vinyl Acetate

Concen: 88.211 ug/l

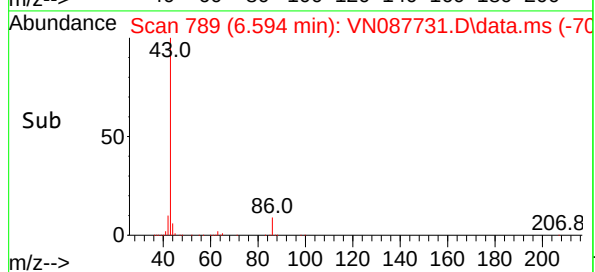
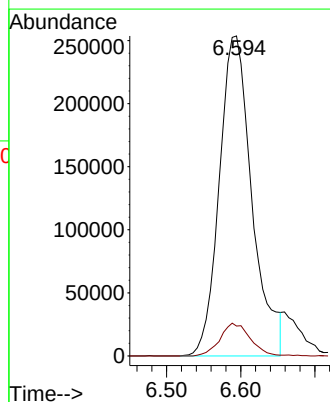
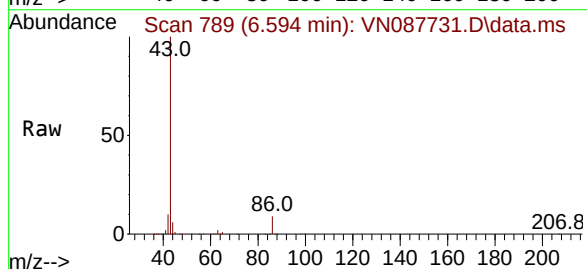
RT: 6.594 min Scan# 789

Delta R.T. 0.006 min

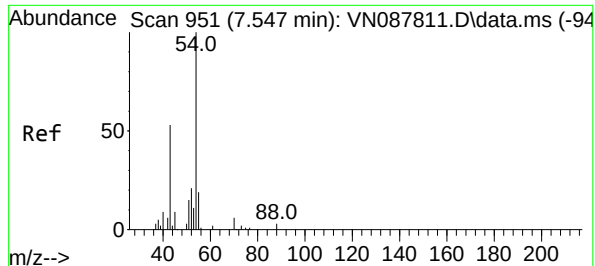
Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 777536 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 9.4   | 7.7   | 11.5   |







#43

Ethyl Acetate

Concen: 17.318 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVNVN090425

Tgt Ion: 43 Resp: 93344

Ion Ratio Lower Upper

43 100

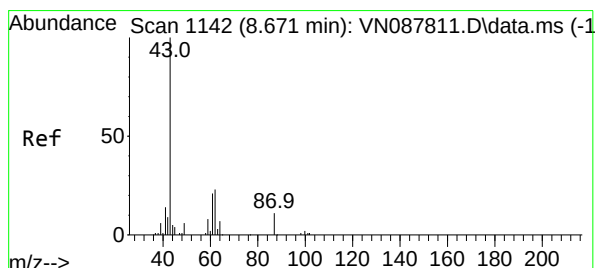
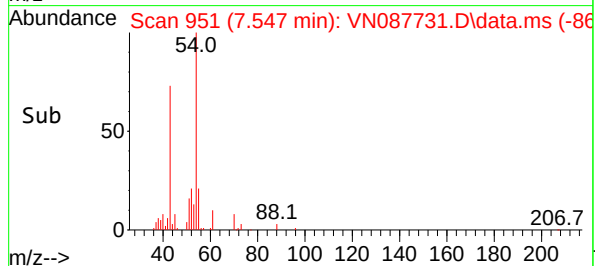
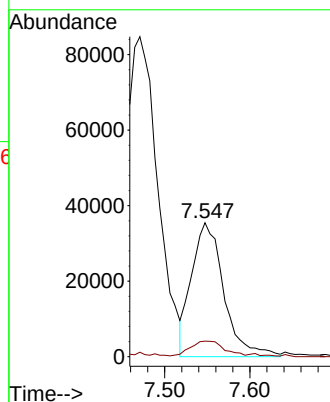
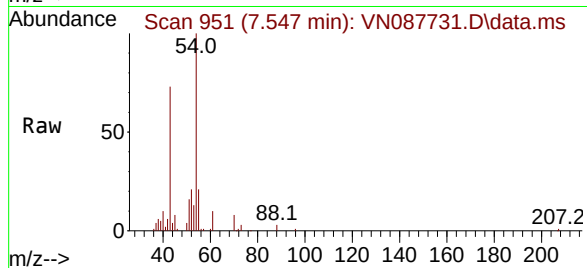
45 12.3 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 17.448 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087731.D

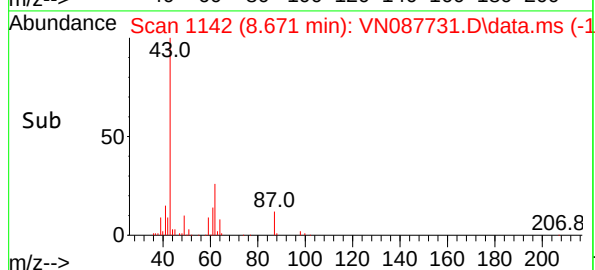
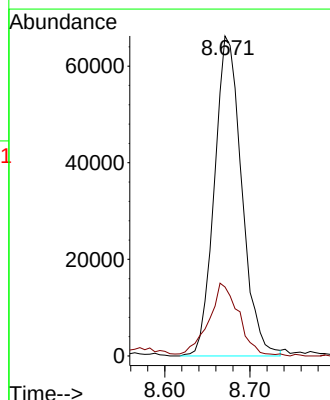
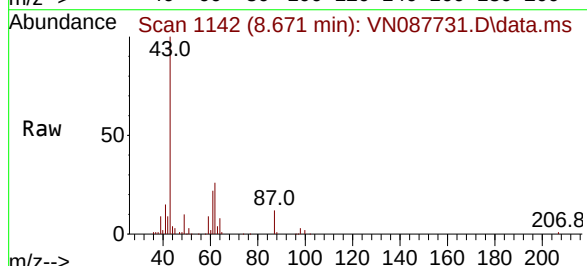
Acq: 04 Sep 2025 18:28

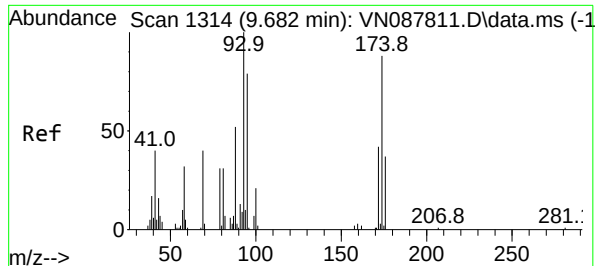
Tgt Ion: 43 Resp: 147433

Ion Ratio Lower Upper

43 100

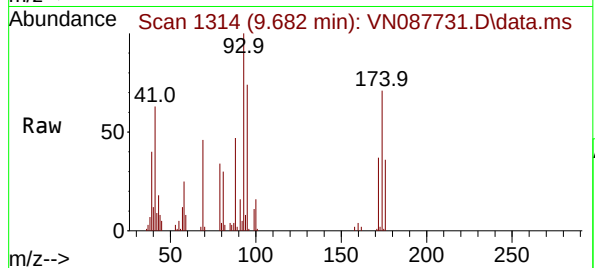
61 25.2 19.5 29.3





#45  
1,4-Dioxane  
Concen: 352.976 ug/l  
RT: 9.682 min Scan# 1314  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

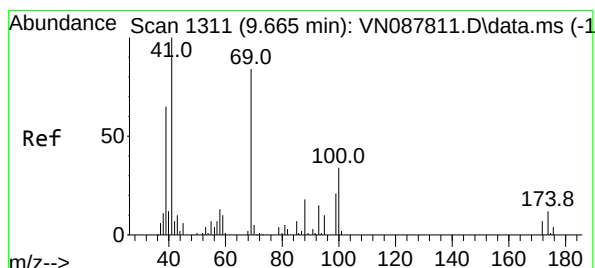
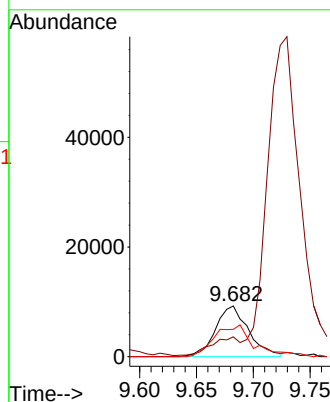
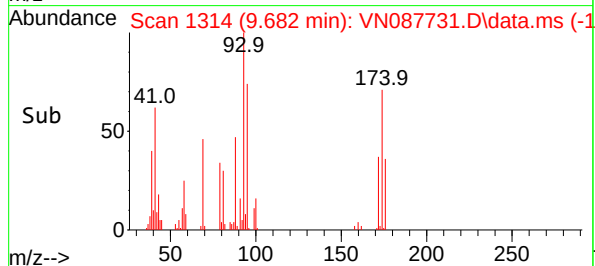
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



Tgt Ion: 88 Resp: 18809  
Ion Ratio Lower Upper  
88 100  
43 30.6 23.6 35.4  
58 20.9 60.5 90.7

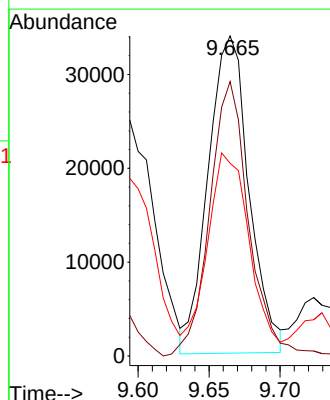
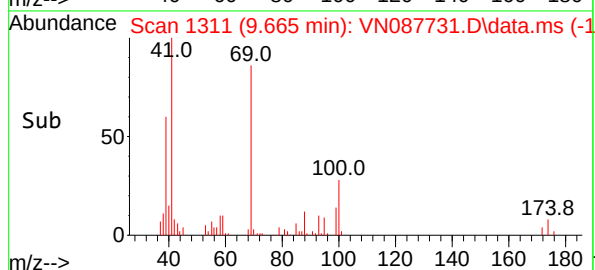
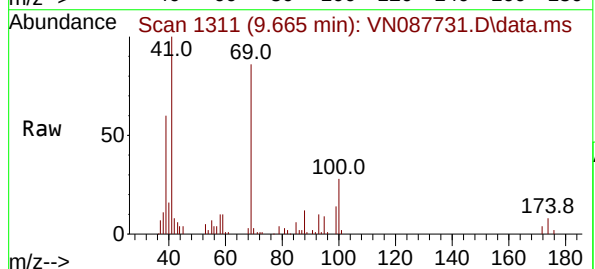
Manual Integrations  
APPROVED

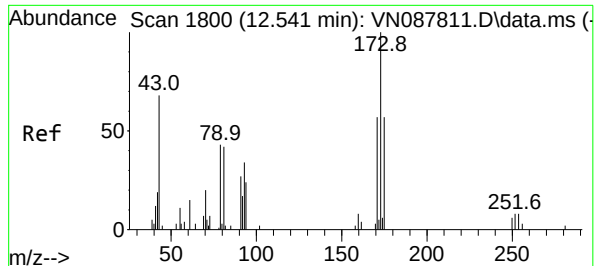
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#46  
Methyl methacrylate  
Concen: 17.410 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 41 Resp: 67807  
Ion Ratio Lower Upper  
41 100  
69 89.5 40.3 120.9  
39 60.9 31.9 95.9





#47

n-amyl acetate

Concen: 15.166 ug/l m

RT: 12.570 min Scan# 1805

Delta R.T. -0.100 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 43 Resp: 8660

Ion Ratio Lower Upper

43 100

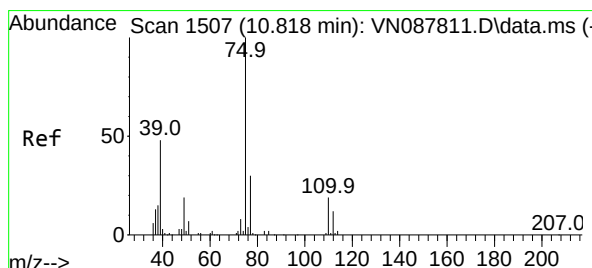
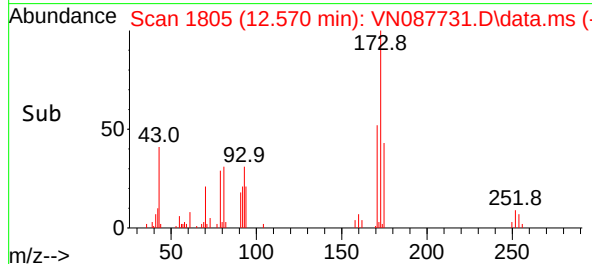
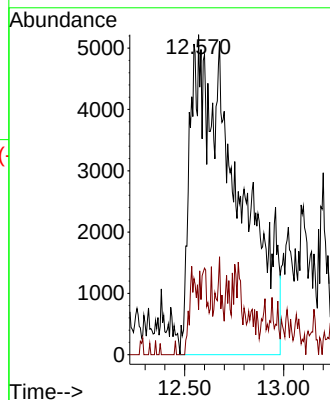
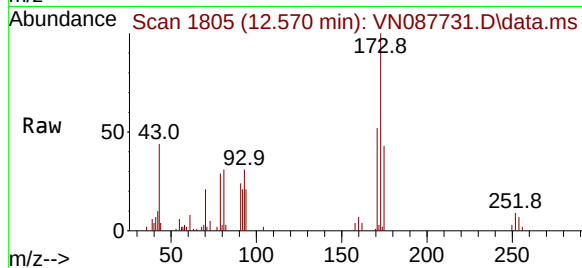
55 1.3 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#48

t-1,3-Dichloropropene

Concen: 17.087 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087731.D

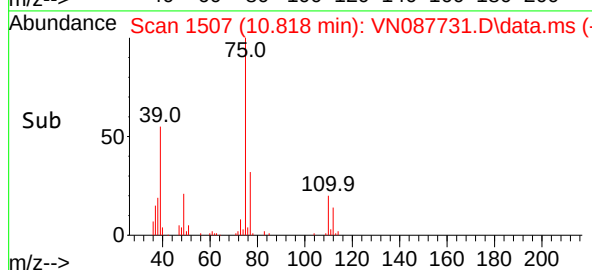
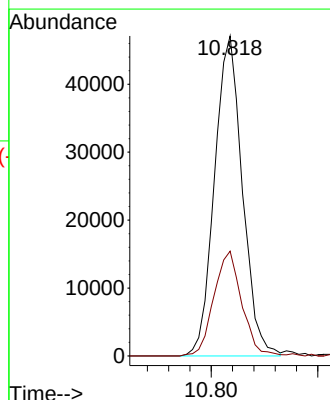
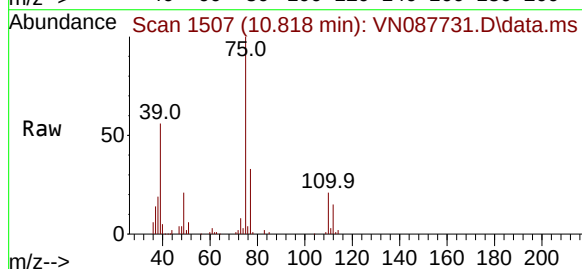
Acq: 04 Sep 2025 18:28

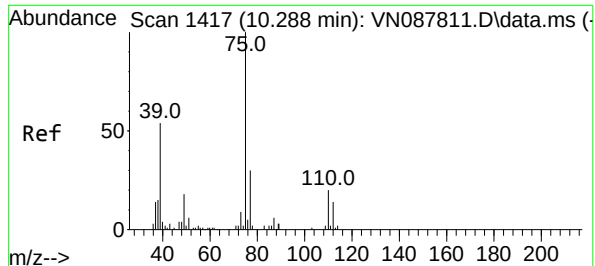
Tgt Ion: 75 Resp: 85569

Ion Ratio Lower Upper

75 100

77 32.8 24.7 37.1





#49

cis-1,3-Dichloropropene

Concen: 17.239 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

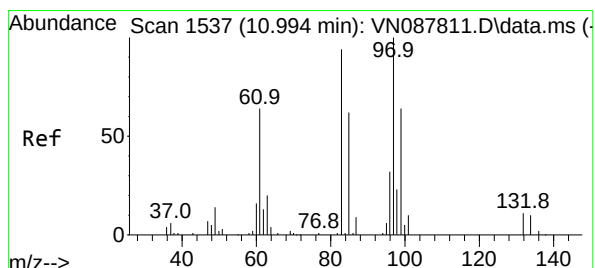
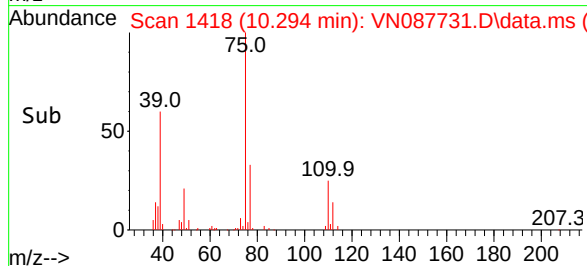
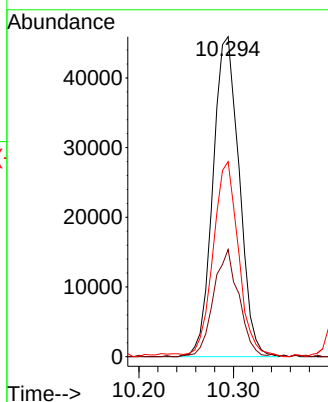
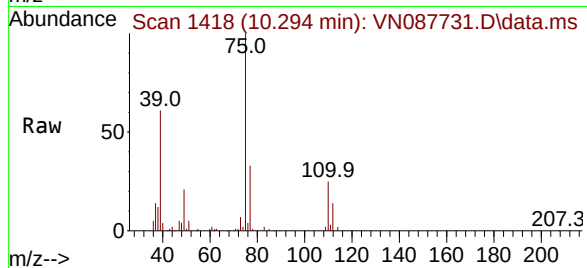
ClientSampleId :

ICVVN090425

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 88428 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 33.5     | 27.8 41.6   |
| 39 60.5     | 47.6 71.4   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 17.648 ug/l

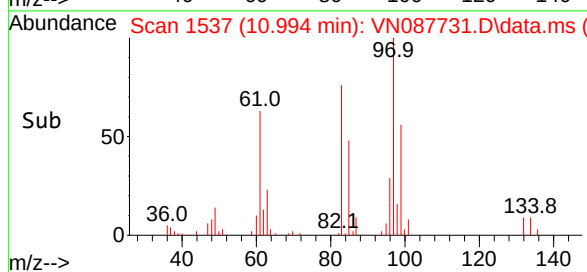
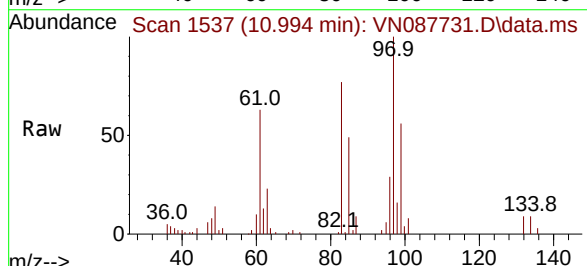
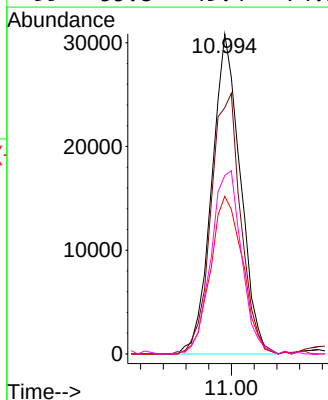
RT: 10.994 min Scan# 1537

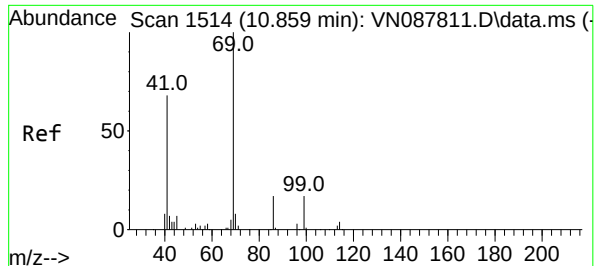
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 53774 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 77.0     | 70.5 105.7  |
| 85 49.3     | 46.3 69.5   |
| 99 55.8     | 49.4 74.2   |





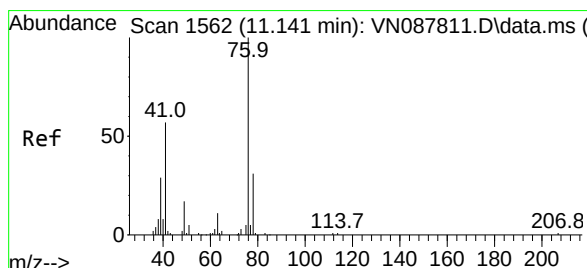
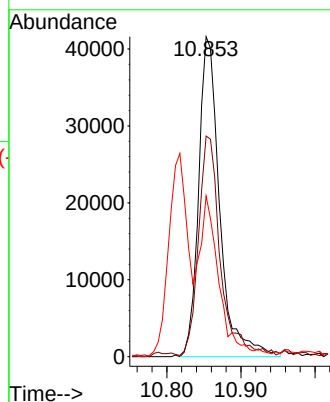
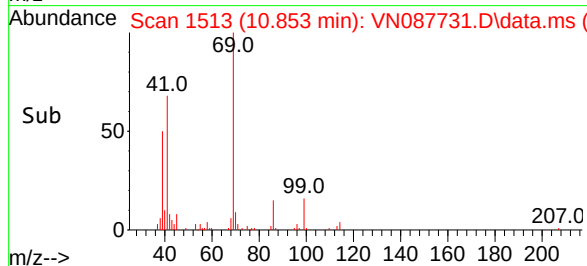
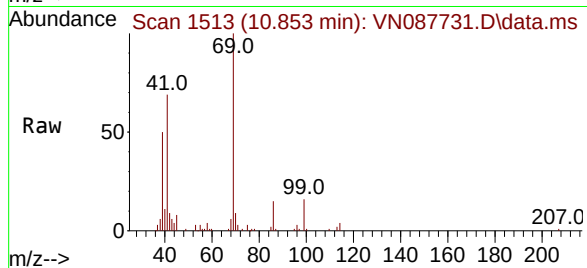
#51  
Ethyl methacrylate  
Concen: 17.320 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion: 69 Resp: 8213  
Ion Ratio Lower Upper  
69 100  
41 68.5 33.7 101.0  
39 49.3 20.3 60.9

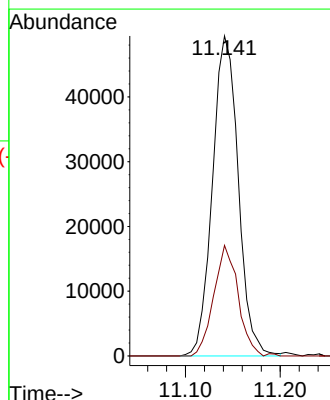
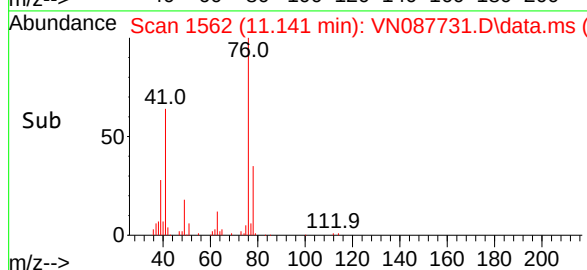
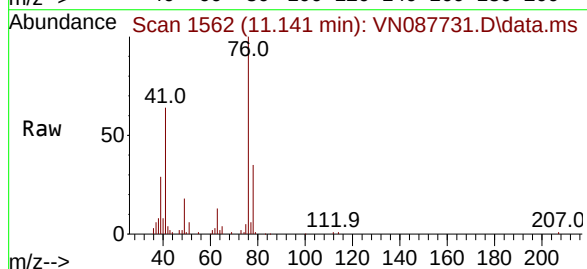
Manual Integrations  
APPROVED

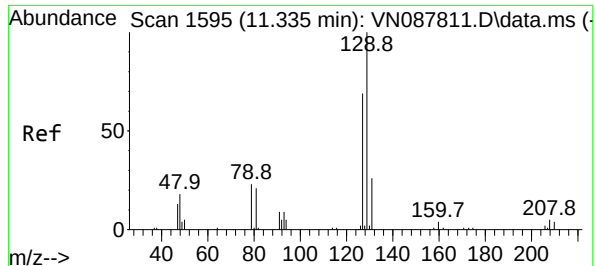
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#52  
1,3-Dichloropropane  
Concen: 17.687 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

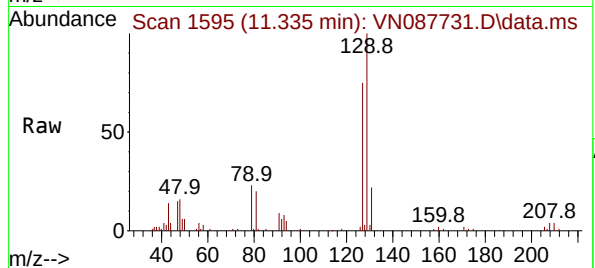
Tgt Ion: 76 Resp: 93581  
Ion Ratio Lower Upper  
76 100  
78 32.4 0.0 65.2





#53  
Dibromochloromethane  
Concen: 17.347 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

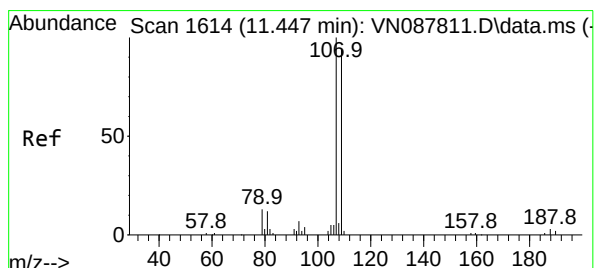
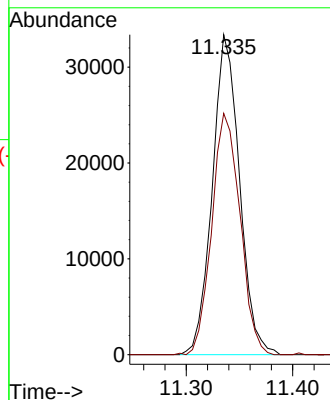
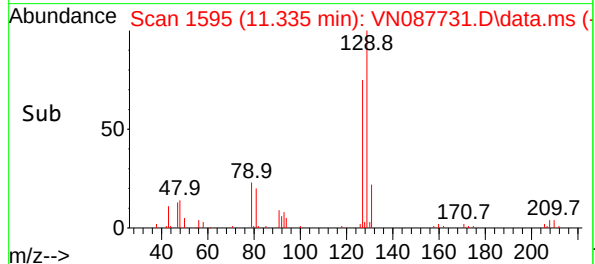
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



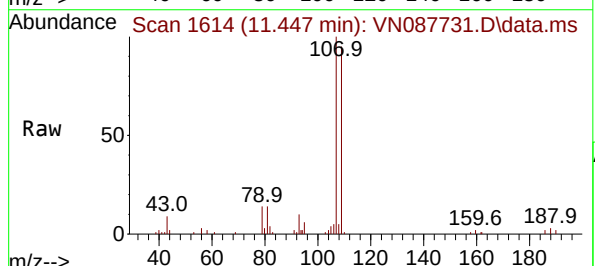
Tgt Ion:129 Resp: 5926  
Ion Ratio Lower Upper  
129 100  
127 78.2 42.6 128.0

Manual Integrations  
APPROVED

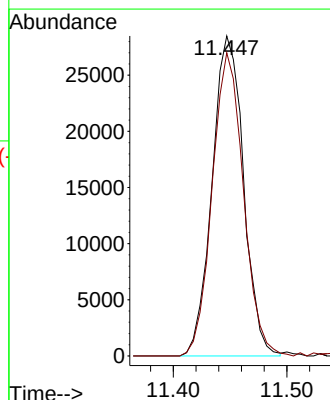
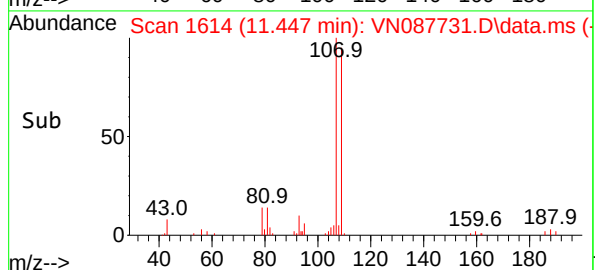
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

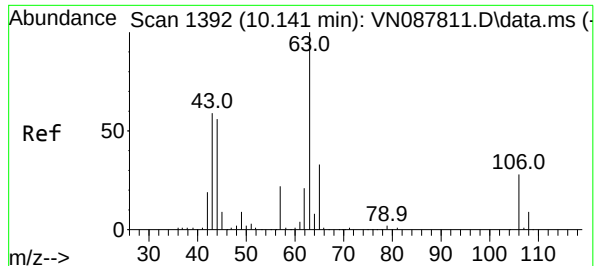


#54  
1,2-Dibromoethane  
Concen: 17.241 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28



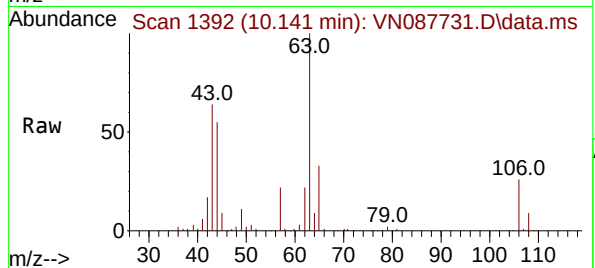
Tgt Ion:107 Resp: 54662  
Ion Ratio Lower Upper  
107 100  
109 94.2 74.6 112.0





#55  
2-Chloroethyl vinyl ether  
Concen: 86.104 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

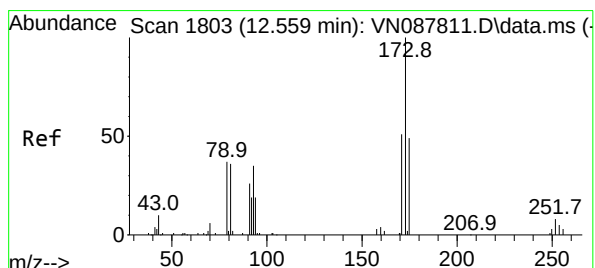
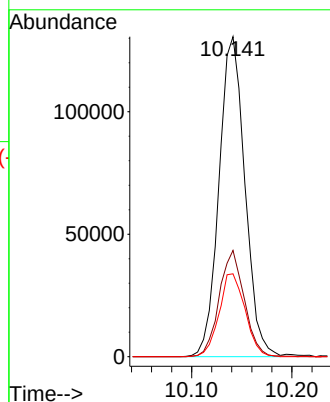
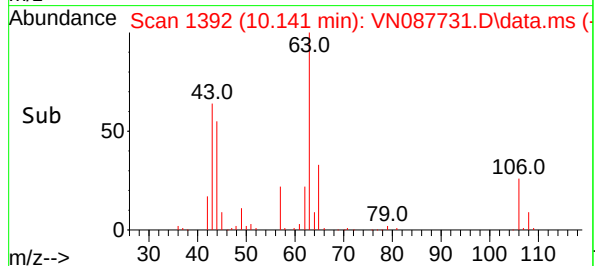
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



Tgt Ion: 63 Resp: 23394  
Ion Ratio Lower Upper  
63 100  
65 32.1 26.6 40.0  
106 26.0 21.1 31.7

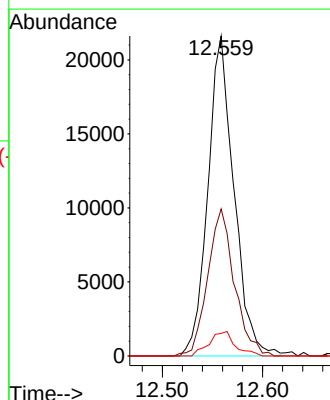
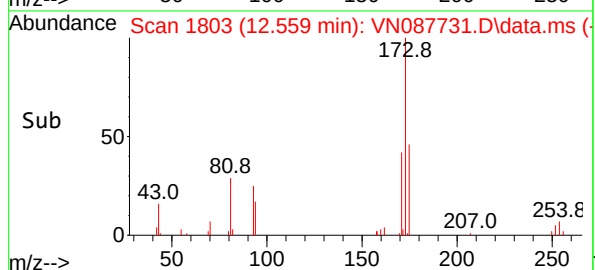
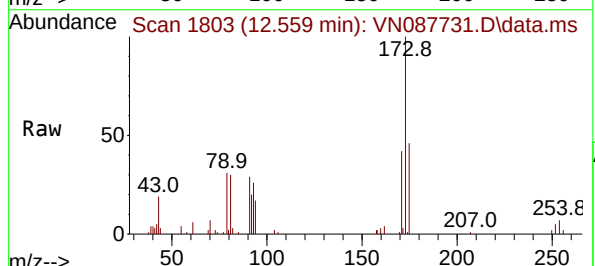
Manual Integrations  
APPROVED

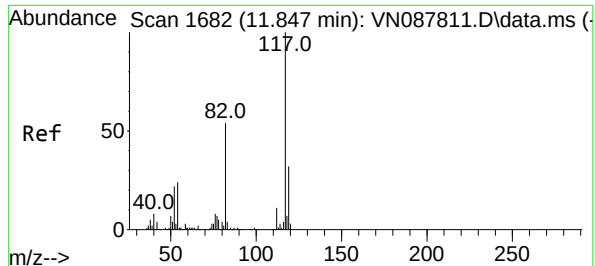
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#56  
Bromoform  
Concen: 17.508 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

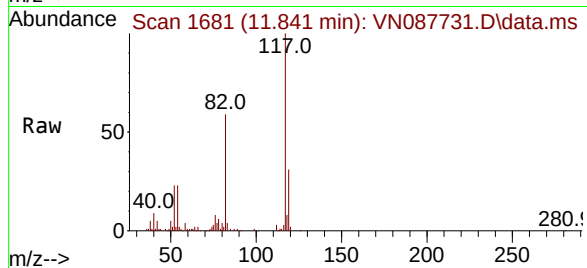
Tgt Ion:173 Resp: 39062  
Ion Ratio Lower Upper  
173 100  
175 46.8 39.8 59.6  
254 7.7 6.2 9.4





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

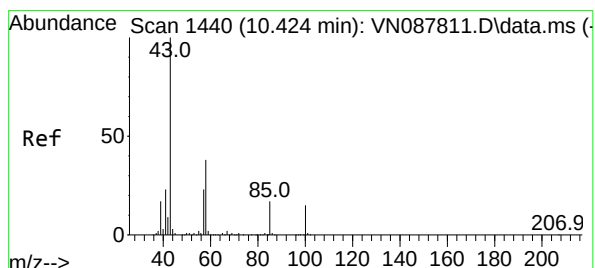
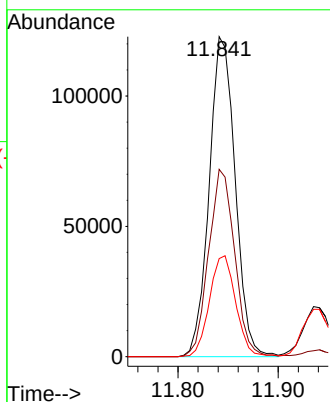
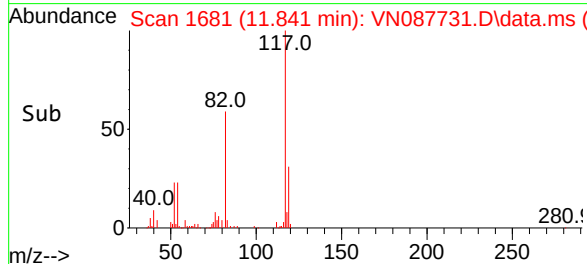
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



Tgt Ion: 117 Resp: 221185  
Ion Ratio Lower Upper  
117 100  
82 58.7 45.9 68.9  
119 31.9 25.3 37.9

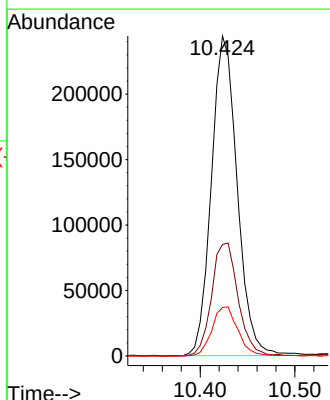
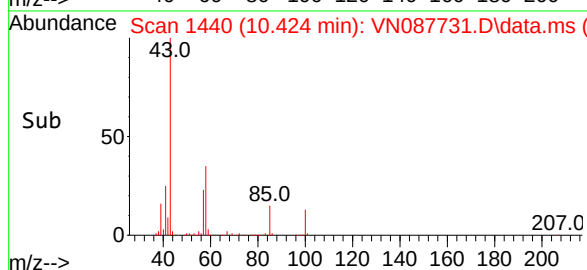
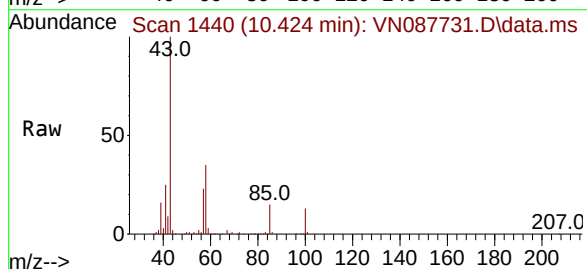
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

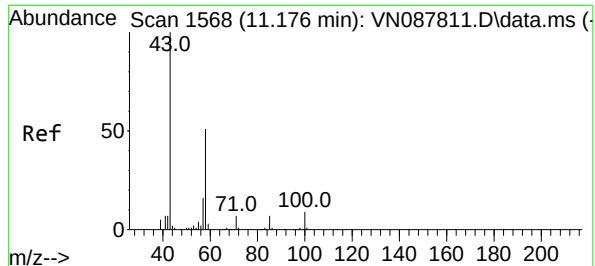


#58  
4-Methyl-2-Pentanone  
Concen: 88.138 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion: 43 Resp: 460953  
Ion Ratio Lower Upper  
43 100  
58 36.2 29.6 44.4  
85 15.5 13.0 19.4







#59

2-Hexanone

Concen: 85.197 ug/l

RT: 11.182 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

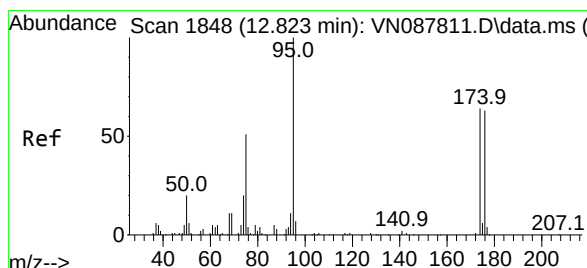
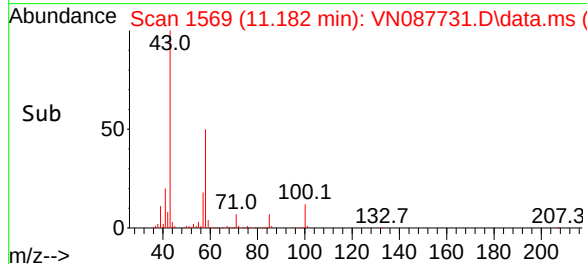
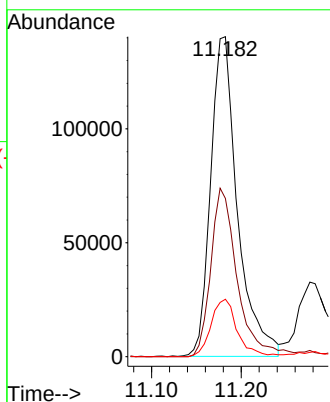
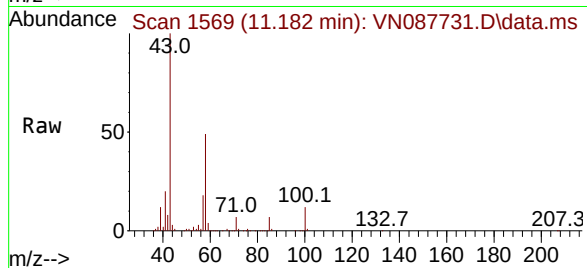
ClientSampleId :

ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 29115 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 52.0  | 40.2  | 60.4  |
| 57       | 17.4  | 13.7  | 20.5  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#60

4-Bromofluorobenzene

Concen: 29.200 ug/l

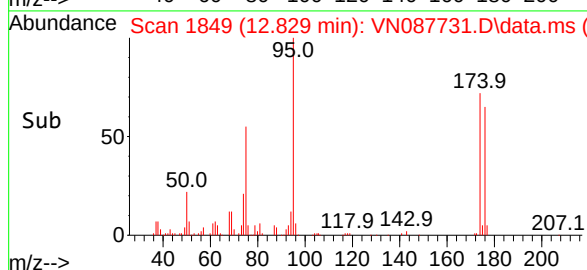
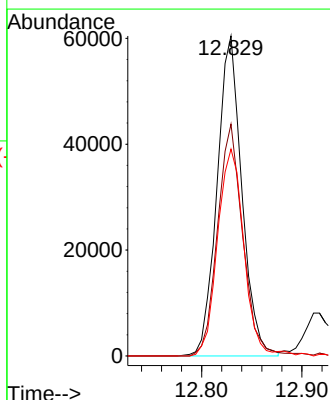
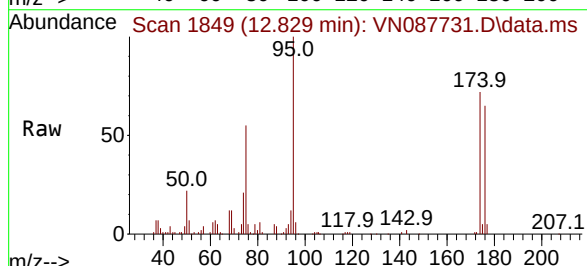
RT: 12.829 min Scan# 1849

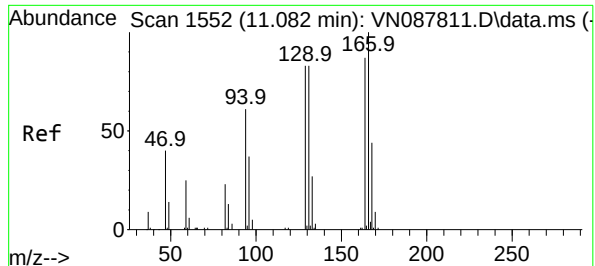
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

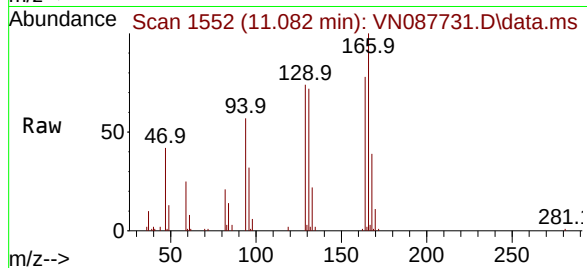
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 103848 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 73.4  | 55.4  | 83.0   |
| 176      | 67.6  | 51.5  | 77.3   |





#61  
Tetrachloroethene  
Concen: 17.528 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

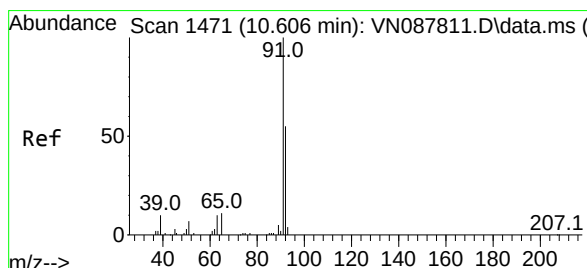
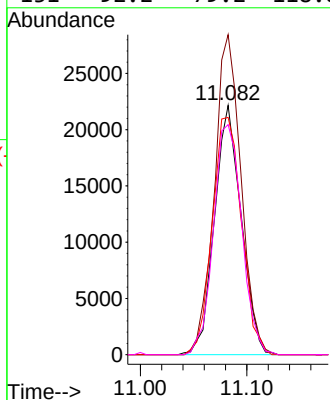
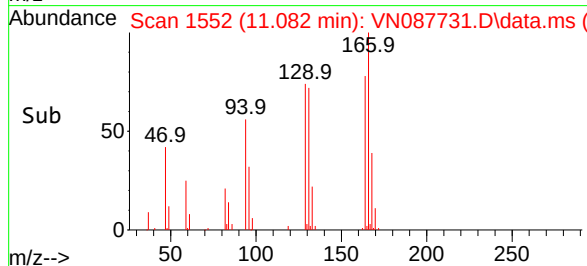
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



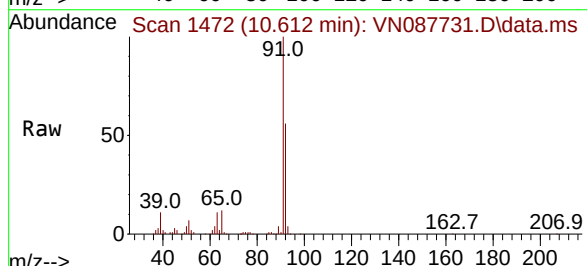
Tgt Ion:164 Resp: 38600  
Ion Ratio Lower Upper  
164 100  
166 128.3 97.3 145.9  
129 95.2 78.6 117.8  
131 92.2 79.2 118.8

Manual Integrations  
APPROVED

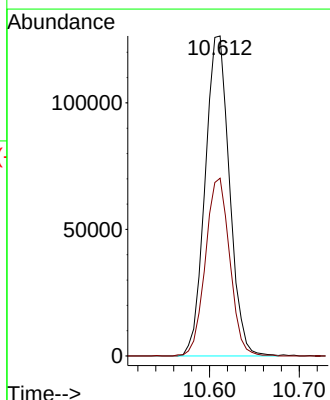
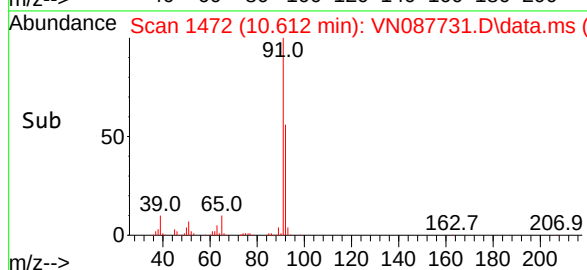
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

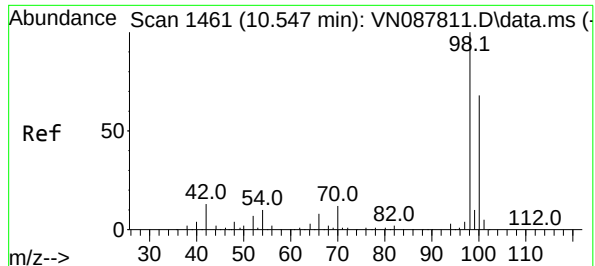


#62  
Toluene  
Concen: 17.829 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28



Tgt Ion: 91 Resp: 238533  
Ion Ratio Lower Upper  
91 100  
92 55.3 45.4 68.0





#63

Toluene-d8

Concen: 29.682 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion: 98 Resp: 305314

Ion Ratio Lower Upper

98 100

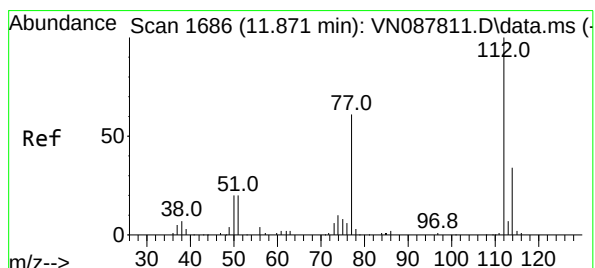
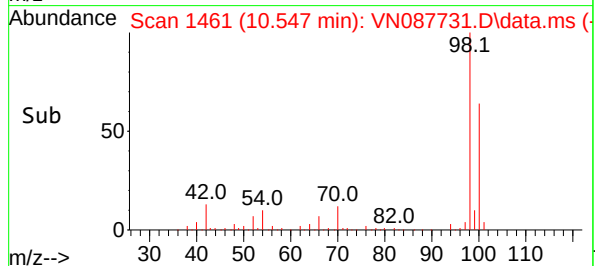
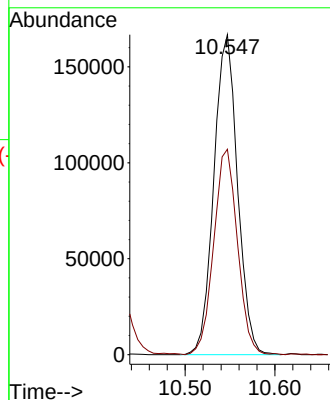
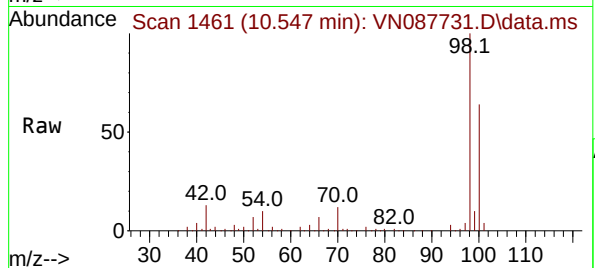
100 64.3 50.6 76.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#64

Chlorobenzene

Concen: 17.382 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN087731.D

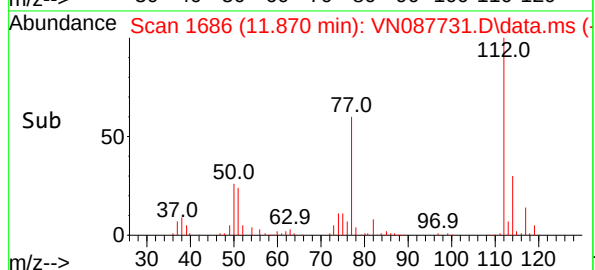
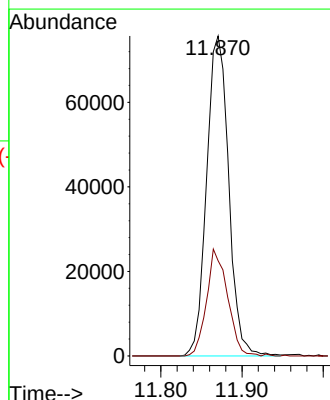
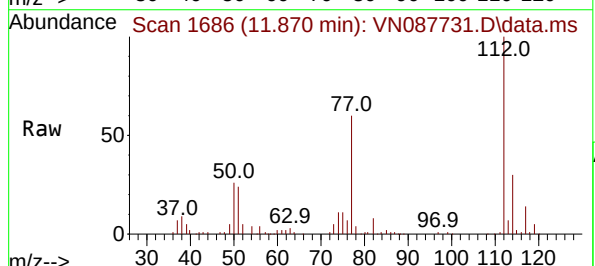
Acq: 04 Sep 2025 18:28

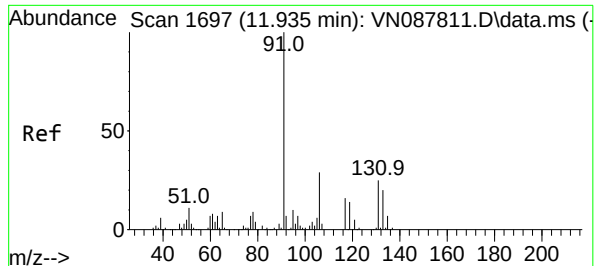
Tgt Ion:112 Resp: 142733

Ion Ratio Lower Upper

112 100

114 29.8 23.5 35.3





#65

1,1,1,2-Tetrachloroethane

Concen: 17.110 ug/l

RT: 11.935 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

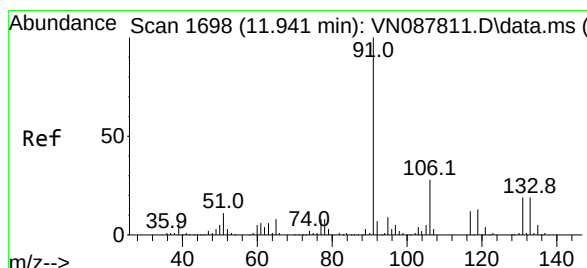
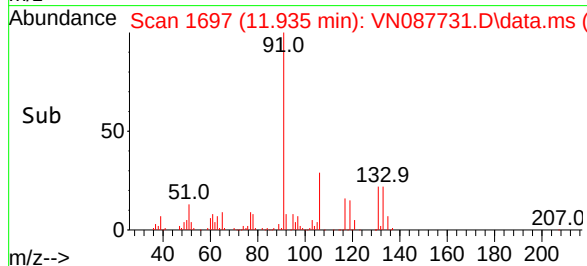
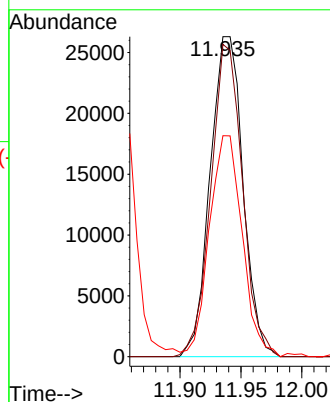
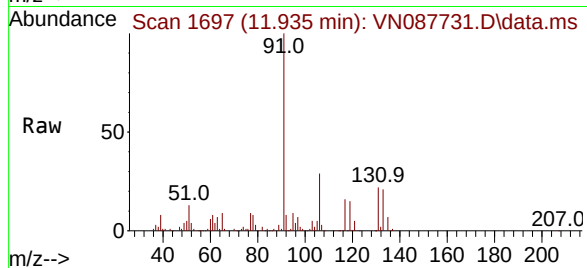
ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 131   | Resp: | 4946  |
| Ion      | Ratio | Lower | Upper |
| 131      | 100   |       |       |
| 133      | 93.9  | 0.0   | 195.8 |
| 119      | 68.9  | 0.0   | 139.0 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#66

Ethyl Benzene

Concen: 17.361 ug/l

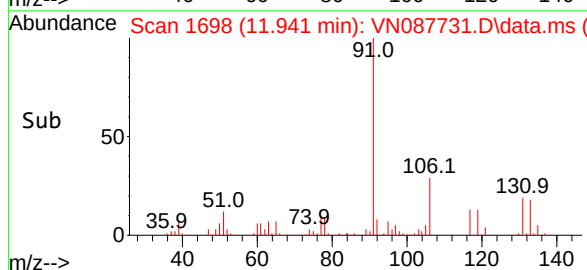
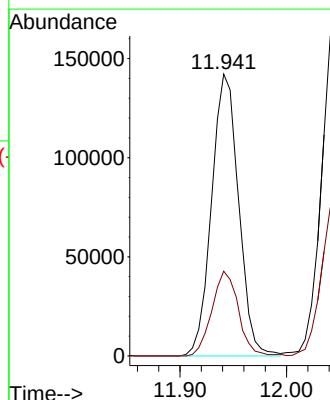
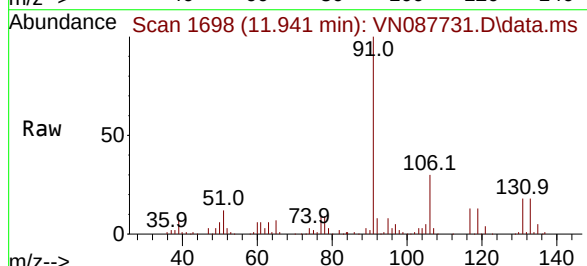
RT: 11.941 min Scan# 1698

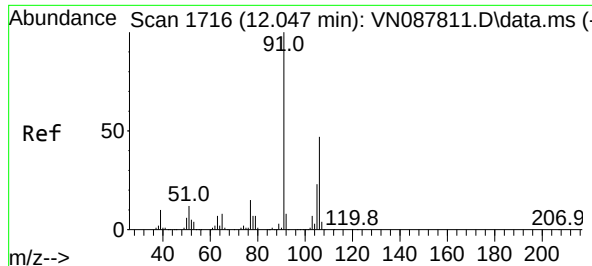
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 250582 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 106      | 30.1  | 21.3  | 31.9   |





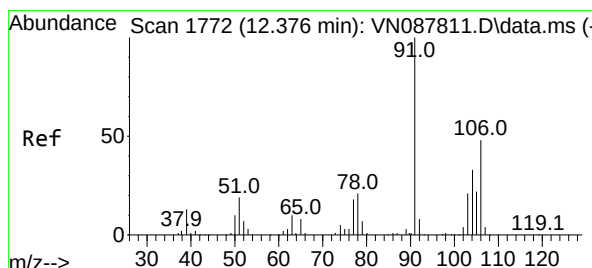
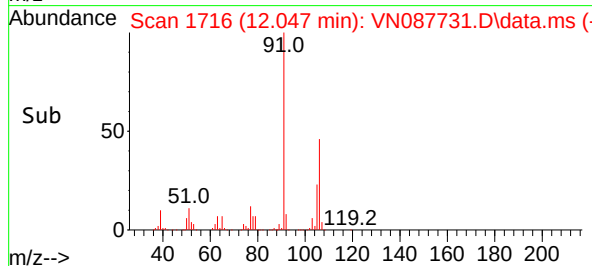
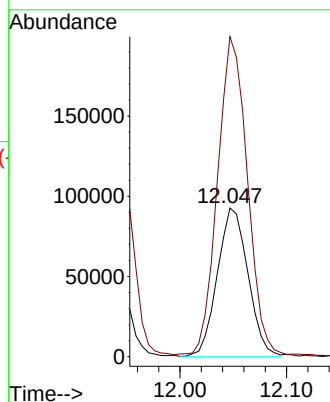
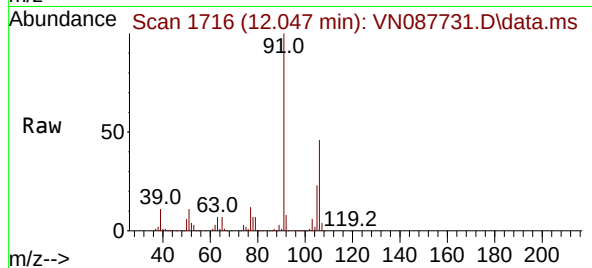
#67  
m/p-Xylenes  
Concen: 34.562 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion:106 Resp: 185180  
Ion Ratio Lower Upper  
106 100  
91 210.2 174.3 261.5

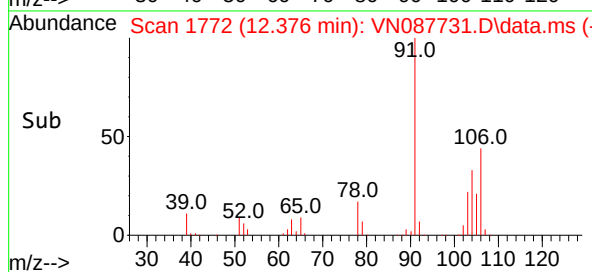
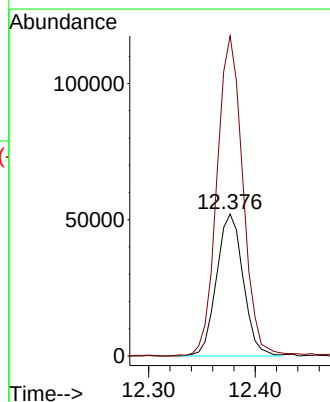
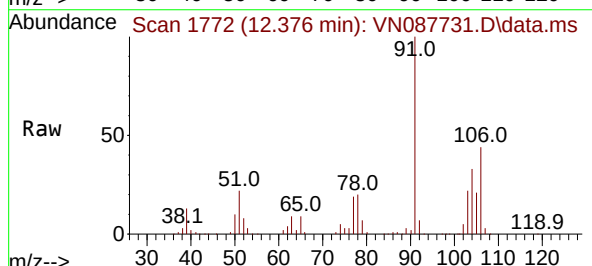
Manual Integrations  
APPROVED

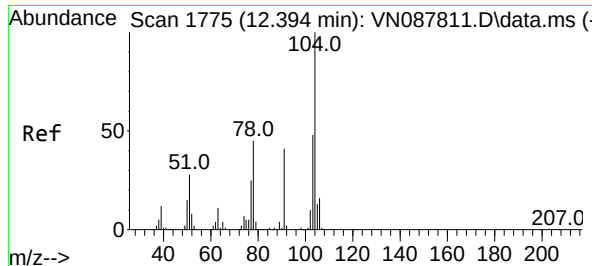
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#68  
o-Xylene  
Concen: 17.377 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion:106 Resp: 90271  
Ion Ratio Lower Upper  
106 100  
91 218.2 107.7 323.3





#69

Styrene

Concen: 16.798 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

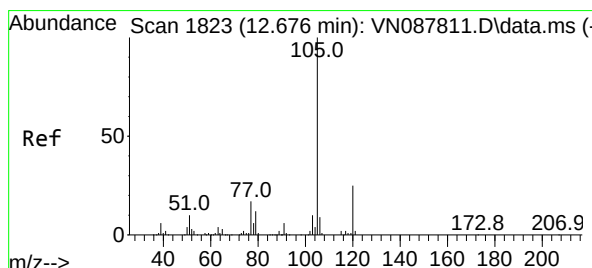
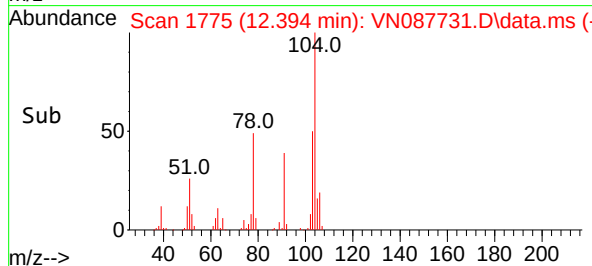
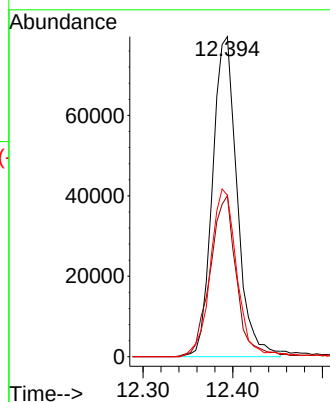
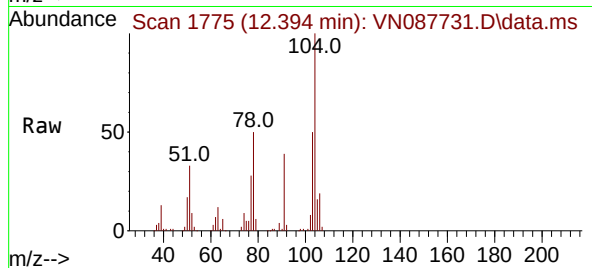
ClientSampleId :

ICVNVN090425

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 151670    |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 53.5  | 41.0 61.6 |
| 103         | 55.1  | 44.6 66.8 |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#70

Isopropylbenzene

Concen: 17.022 ug/l

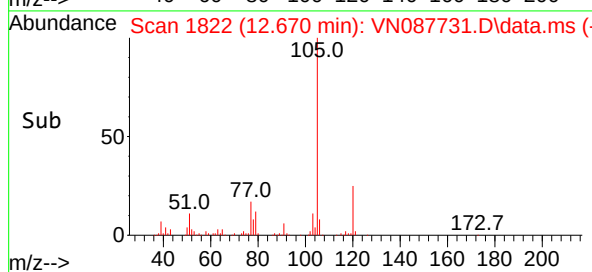
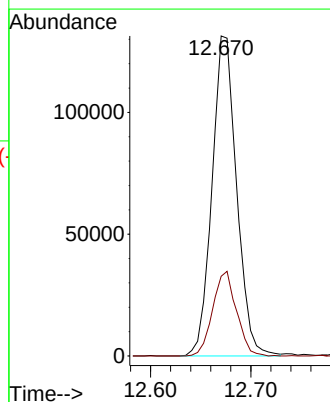
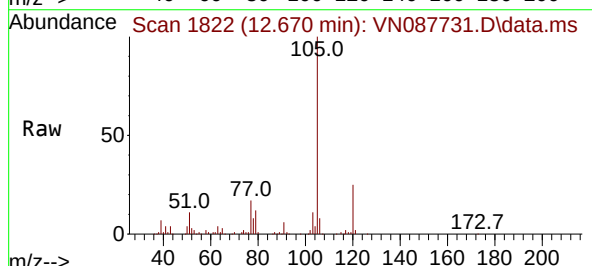
RT: 12.670 min Scan# 1822

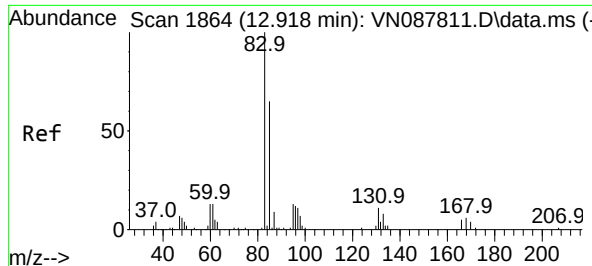
Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 224221    |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 25.4  | 17.4 32.4 |





#71

1,1,2-Tetrachloroethane

Concen: 17.703 ug/l

RT: 12.912 min Scan# 1863

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

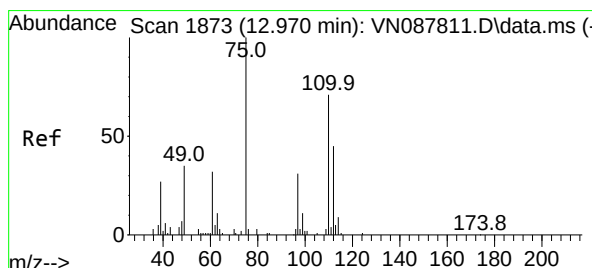
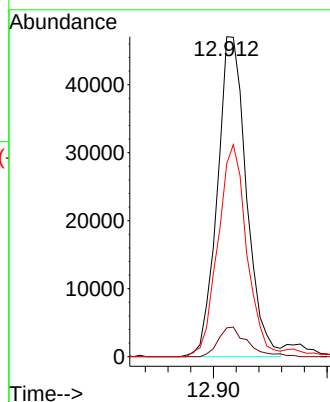
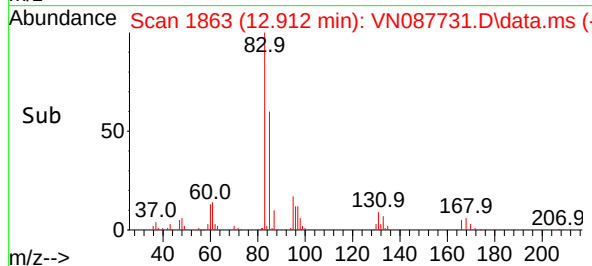
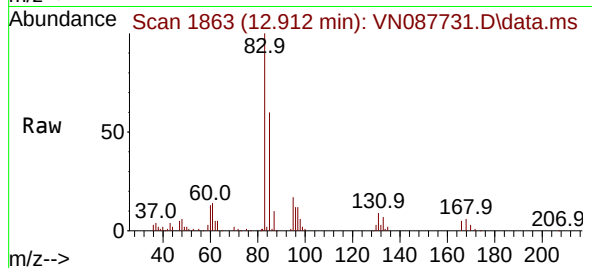
ClientSampleId :

ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 8383  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 9.3   | 4.8   | 14.3  |
| 85       | 65.5  | 31.9  | 95.7  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#72

1,2,3-Trichloropropane

Concen: 16.995 ug/l m

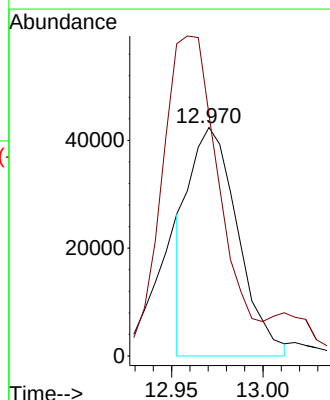
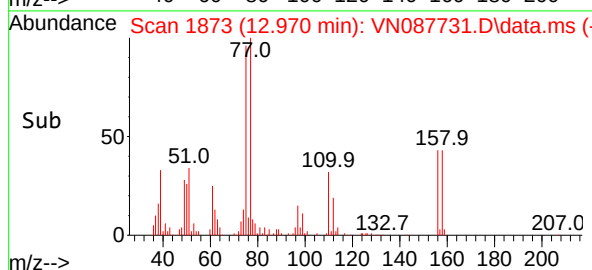
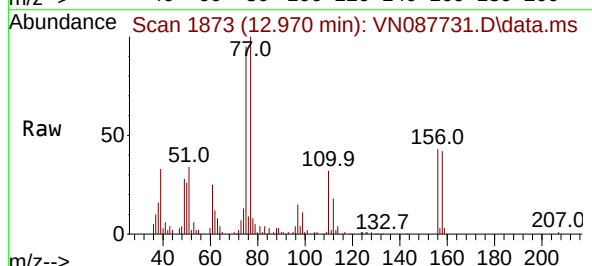
RT: 12.970 min Scan# 1873

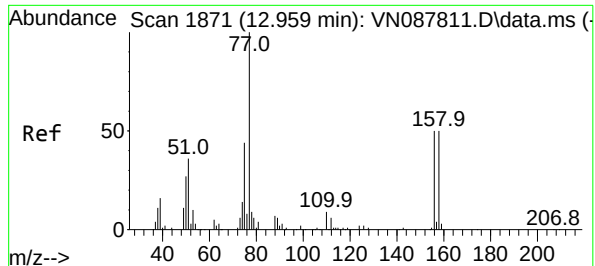
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 79021 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 165.8 | 0.0   | 378.8 |





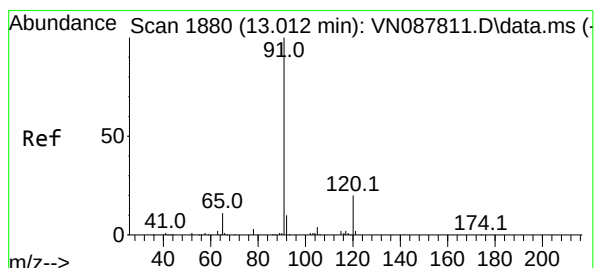
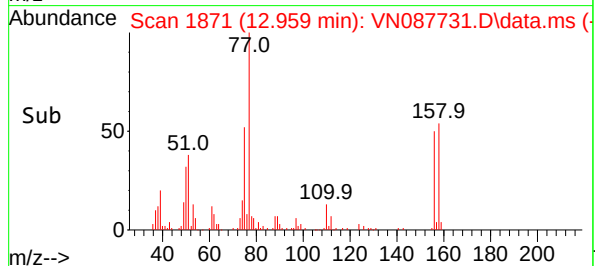
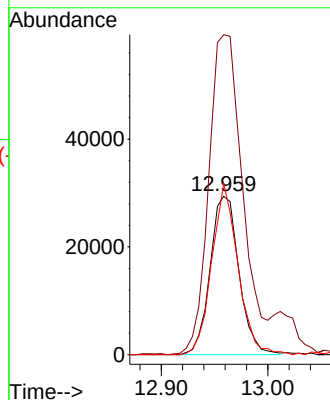
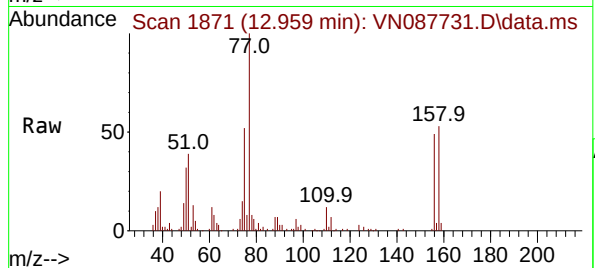
#73  
Bromobenzene  
Concen: 17.154 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 237.0 | 0.0   | 484.2 |
| 158     | 98.0  | 0.0   | 186.2 |

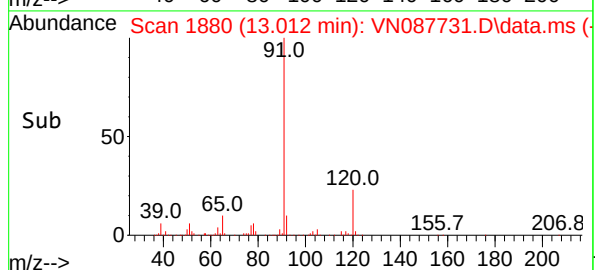
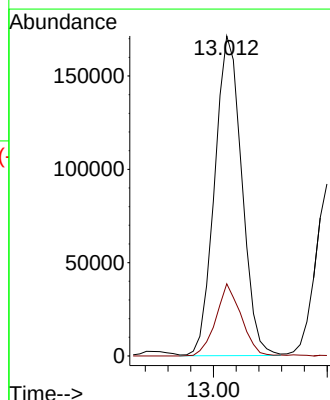
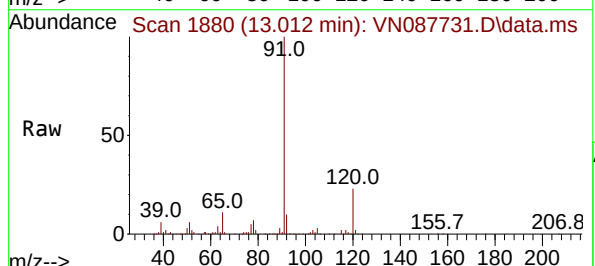
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025

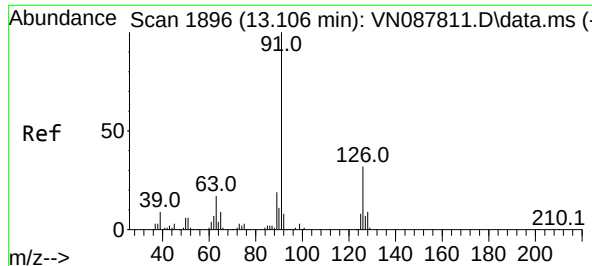


#74  
n-propylbenzene  
Concen: 17.141 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 20.8  | 0.0   | 42.2  |







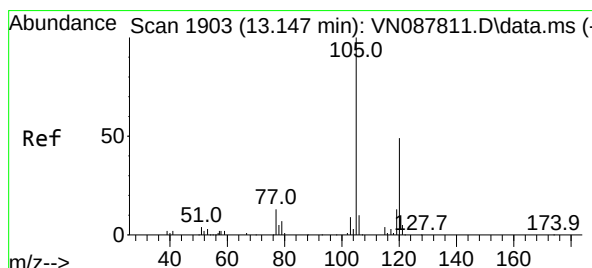
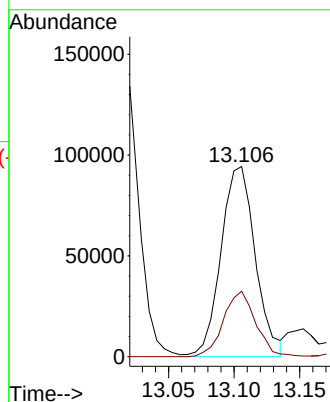
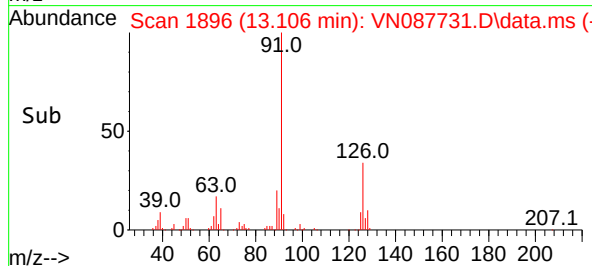
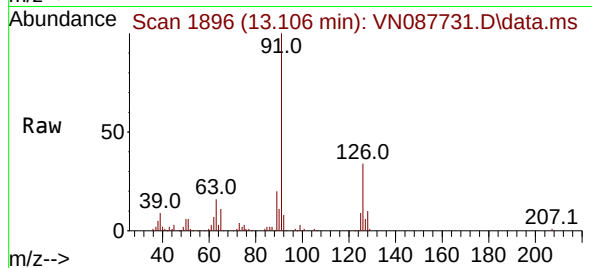
#75  
2-Chlorotoluene  
Concen: 17.173 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion: 91 Resp: 17178  
Ion Ratio Lower Upper  
91 100  
126 32.4 0.0 60.4

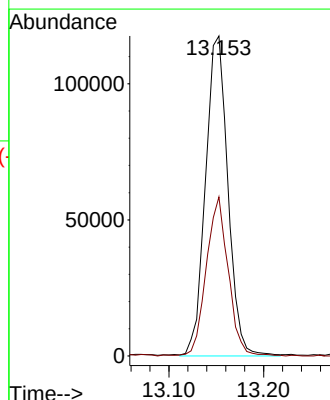
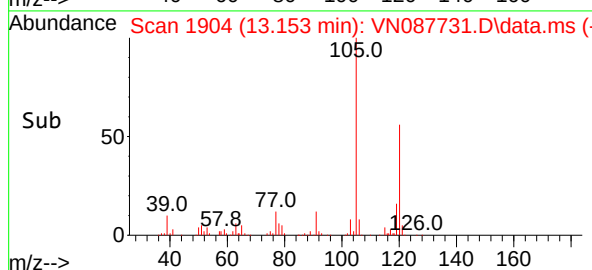
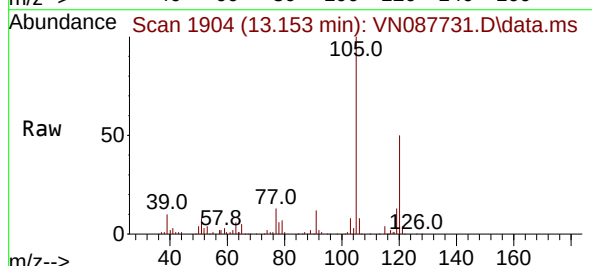
Manual Integrations  
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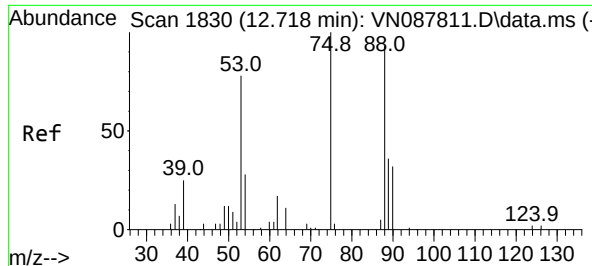
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 17.393 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion:105 Resp: 193466  
Ion Ratio Lower Upper  
105 100  
120 48.5 0.0 92.6





#77

t-1,4-Dichloro-2-butene

Concen: 15.243 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

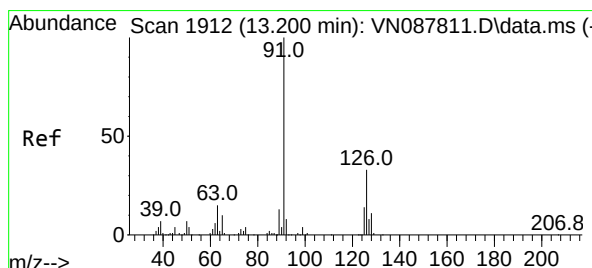
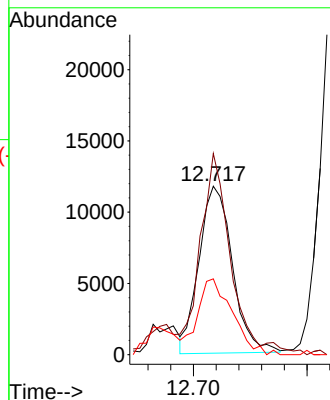
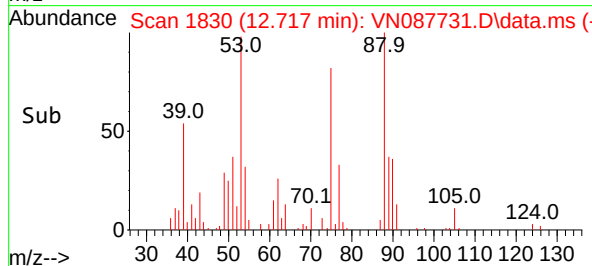
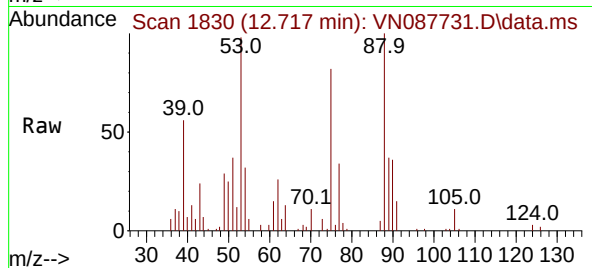
ICVVN090425

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2392  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 118.3 | 45.3  | 135.9 |
| 89       | 46.1  | 18.8  | 56.3  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#78

4-Chlorotoluene

Concen: 18.280 ug/l

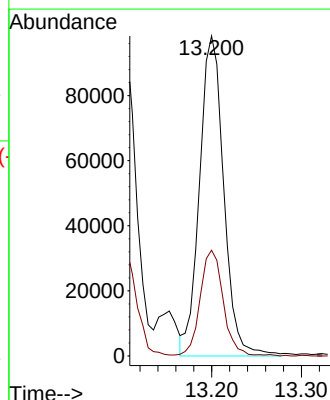
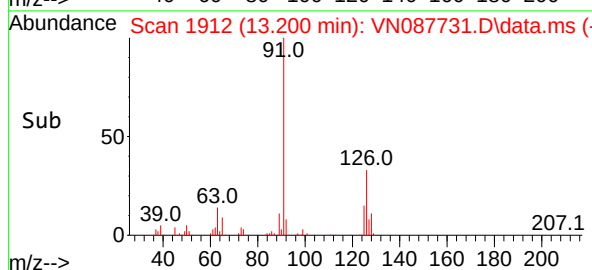
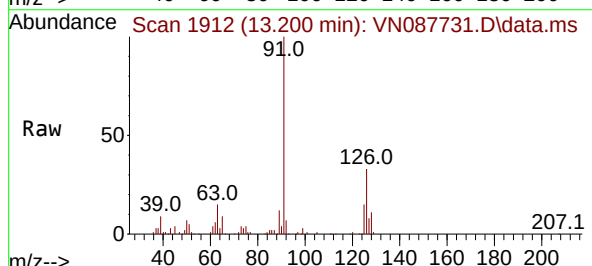
RT: 13.200 min Scan# 1912

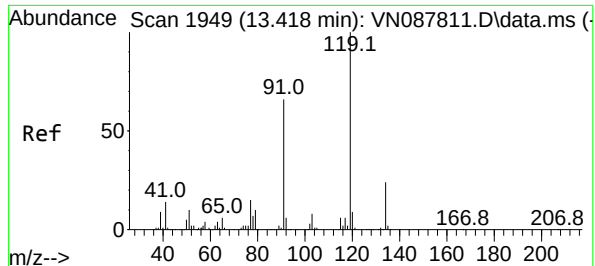
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 184349 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 31.2  | 0.0   | 67.0   |





#79

tert-butylbenzene

Concen: 17.436 ug/l

RT: 13.412 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVVN090425

Tgt Ion:119 Resp: 162429

Ion Ratio Lower Upper

119 100

91 66.9 0.0 142.6

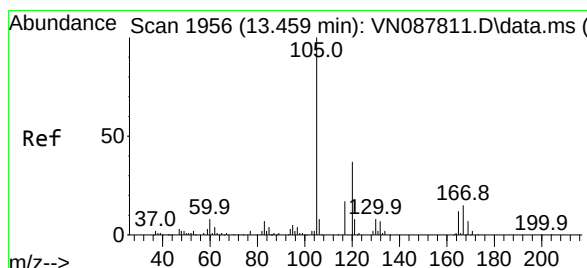
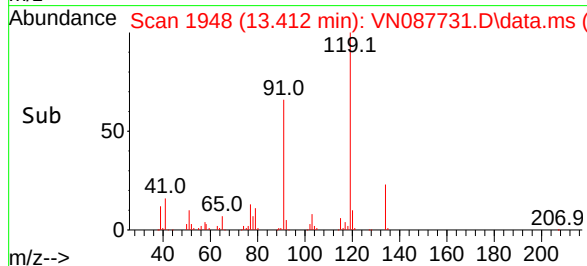
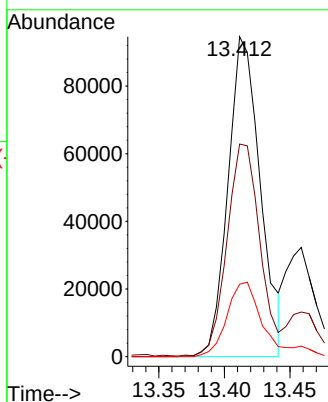
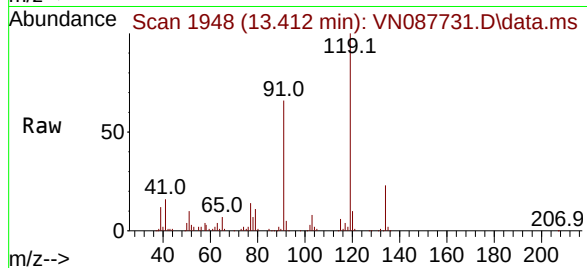
134 24.5 0.0 47.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#80

1,2,4-Trimethylbenzene

Concen: 17.154 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087731.D

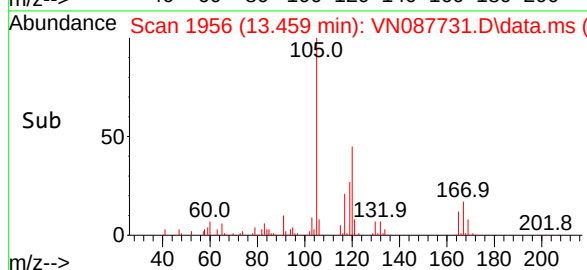
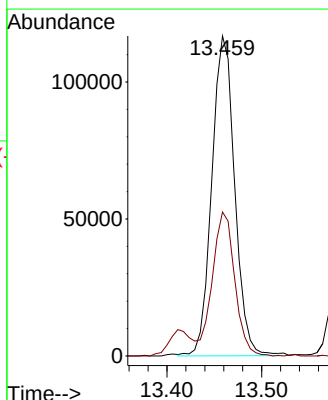
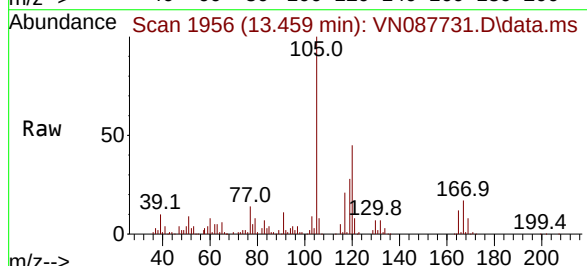
Acq: 04 Sep 2025 18:28

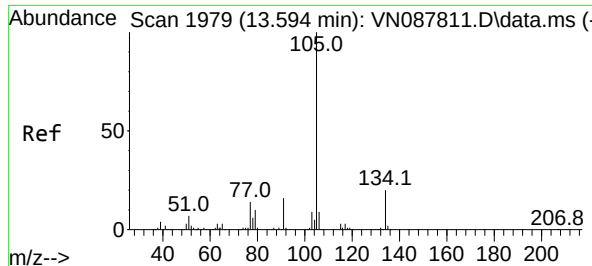
Tgt Ion:105 Resp: 195624

Ion Ratio Lower Upper

105 100

120 44.4 0.0 86.6





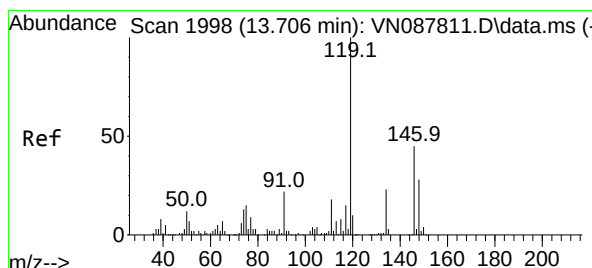
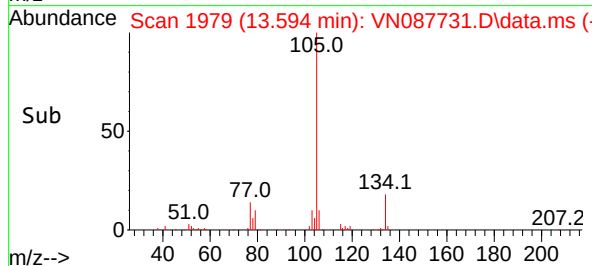
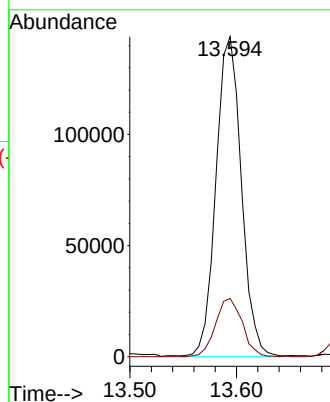
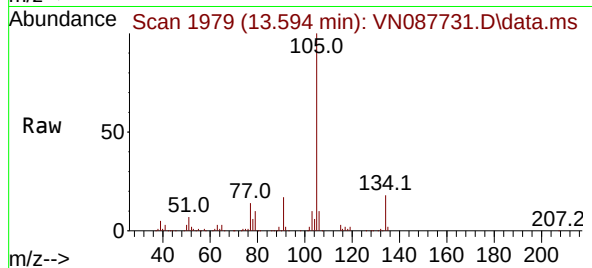
#81  
sec-Butylbenzene  
Concen: 17.385 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Tgt Ion:105 Resp: 238215  
Ion Ratio Lower Upper  
105 100  
134 19.2 0.0 37.0

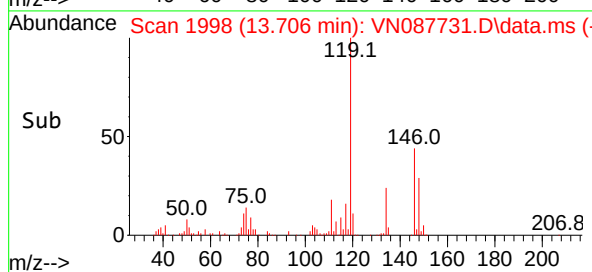
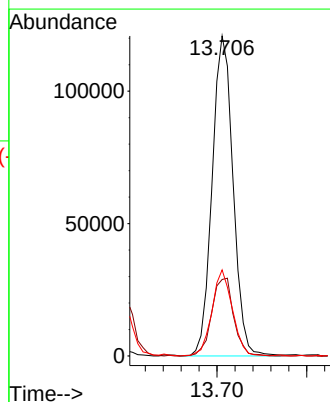
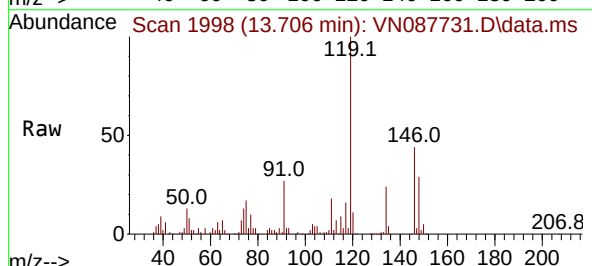
Manual Integrations  
APPROVED

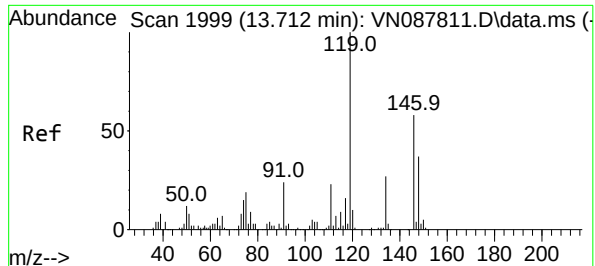
Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#82  
p-Isopropyltoluene  
Concen: 17.337 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion:119 Resp: 195729  
Ion Ratio Lower Upper  
119 100  
134 25.3 0.0 49.4  
91 26.2 0.0 52.2





#83

1,3-Dichlorobenzene

Concen: 17.075 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

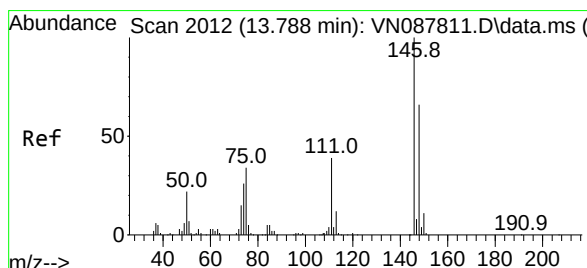
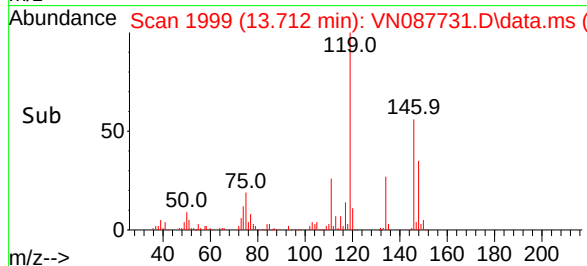
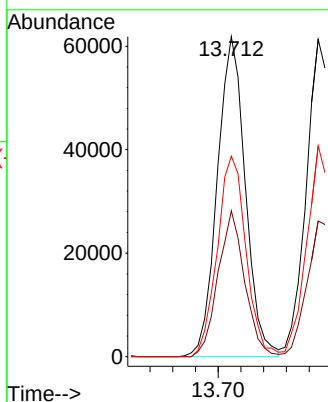
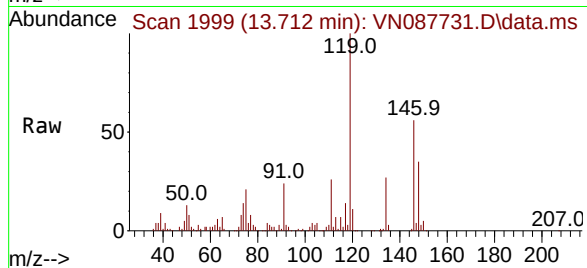
ClientSampleId :

ICVVN090425

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 106089 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 43.4  | 21.1  | 63.4   |
| 148       | 64.2  | 31.0  | 93.0   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#84

1,4-Dichlorobenzene

Concen: 17.287 ug/l

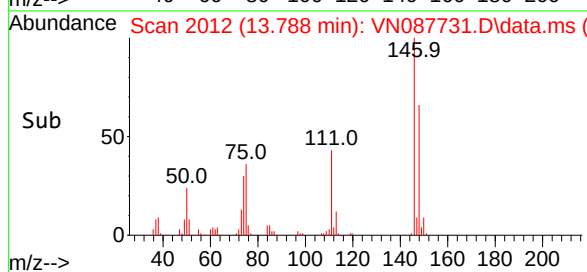
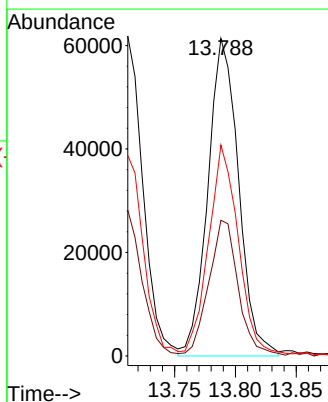
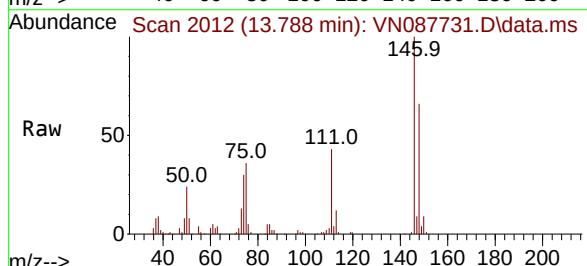
RT: 13.788 min Scan# 2012

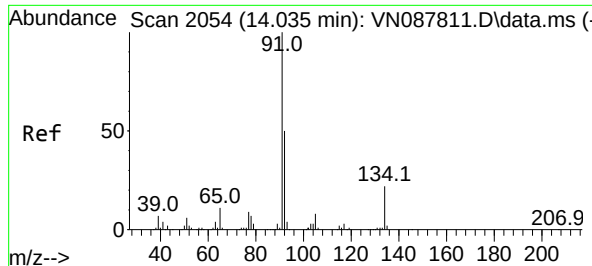
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 107657 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 41.2  | 20.2  | 60.5   |
| 148       | 64.6  | 31.5  | 94.5   |





#85

n-Butylbenzene

Concen: 17.390 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

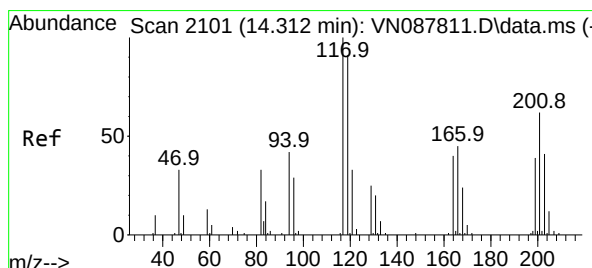
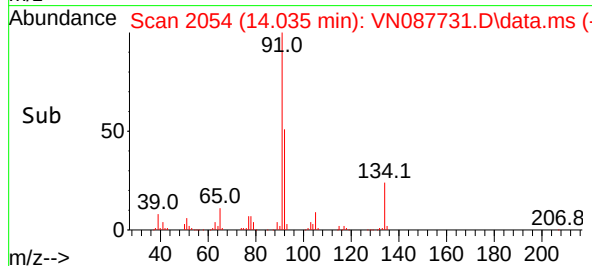
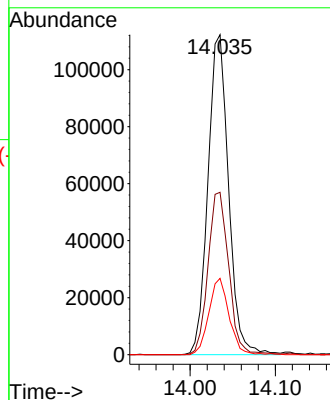
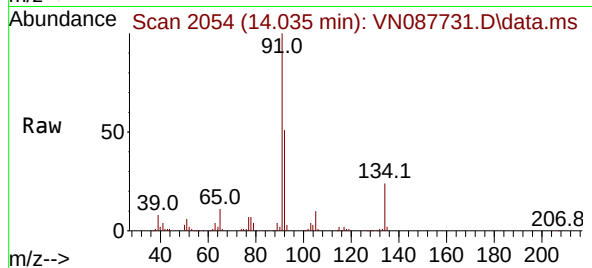
ClientSampleId :

ICVNVN090425

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 188710 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 50.4  | 0.0   | 104.0  |
| 134      | 23.3  | 0.0   | 46.0   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#86

Hexachloroethane

Concen: 17.975 ug/l

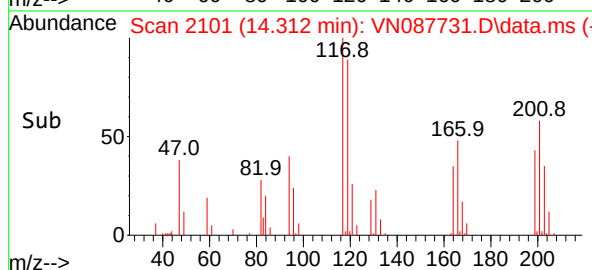
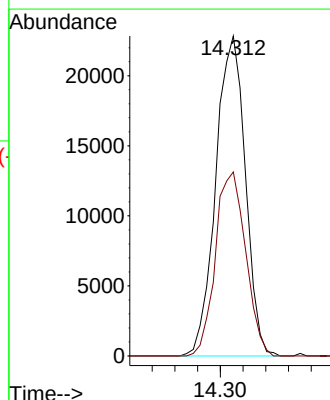
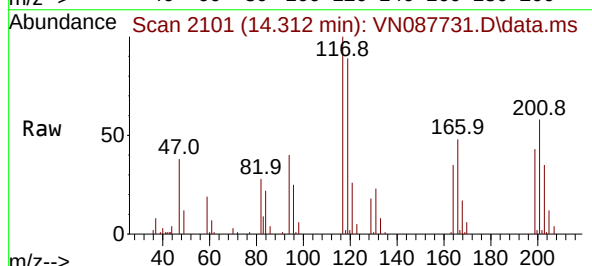
RT: 14.312 min Scan# 2101

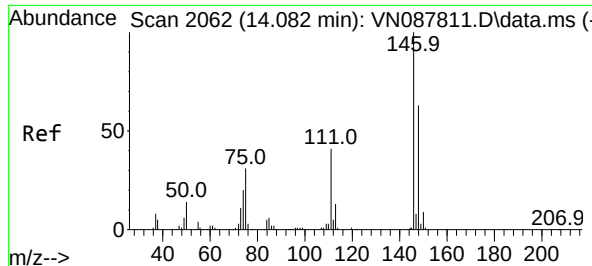
Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 41219 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 58.7  | 29.9  | 89.7  |





#87

1,2-Dichlorobenzene

Concen: 18.016 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

ClientSampleId :

ICVNVN090425

Tgt Ion:146 Resp: 105569

Ion Ratio Lower Upper

146 100

111 42.9 21.5 64.5

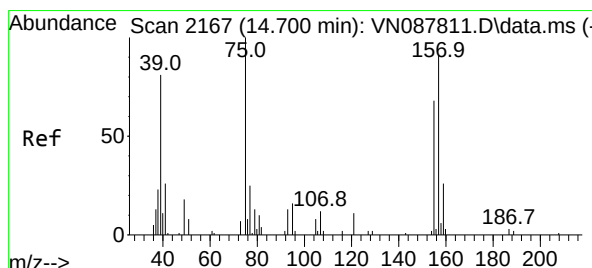
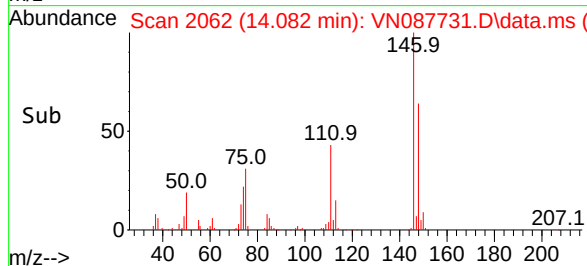
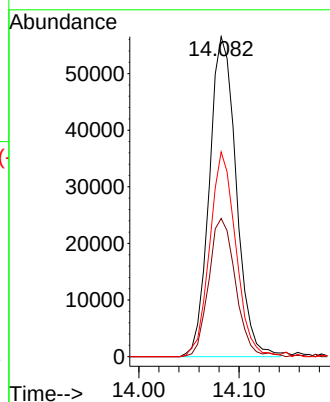
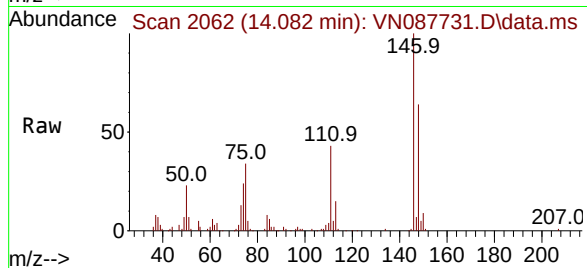
148 62.1 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.204 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

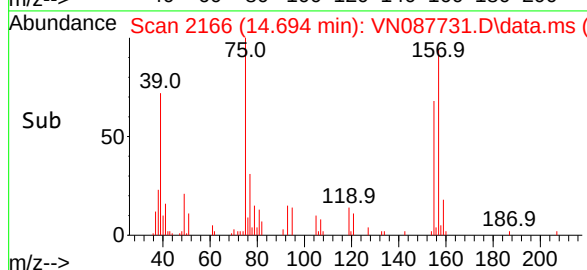
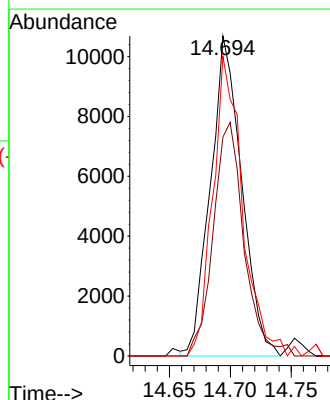
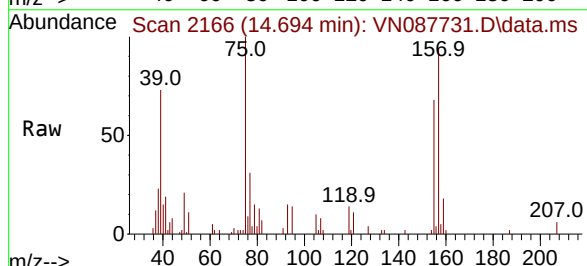
Tgt Ion: 75 Resp: 19130

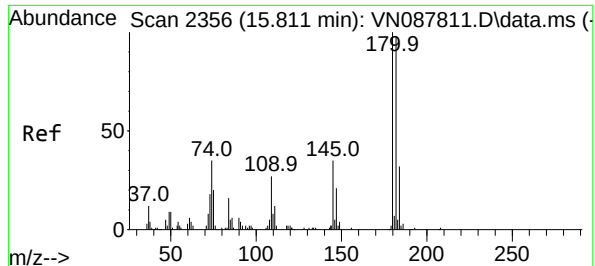
Ion Ratio Lower Upper

75 100

155 70.9 53.0 79.4

157 87.6 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 17.505 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

Instrument :

MSVOA\_N

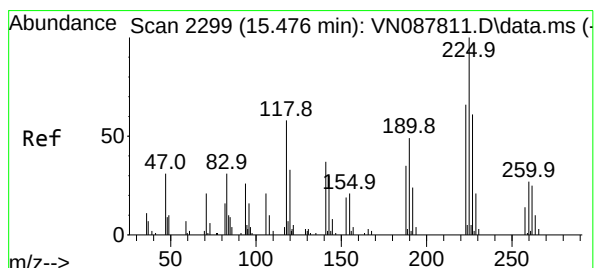
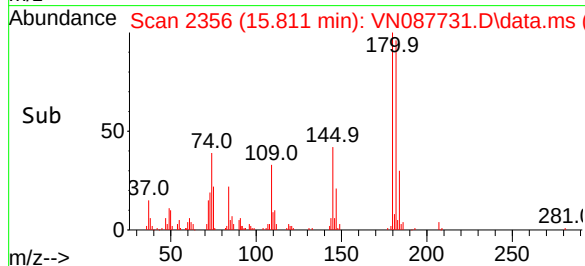
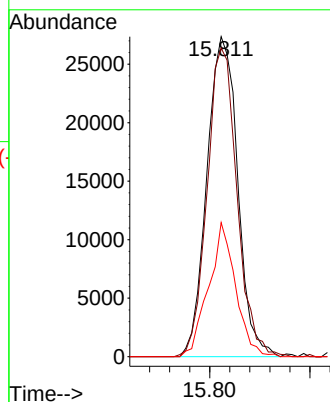
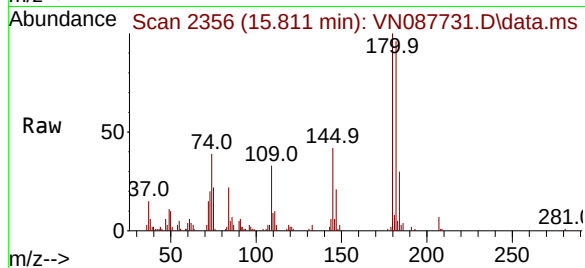
ClientSampleId :

ICVNVN090425

|             |                 |
|-------------|-----------------|
| Tgt Ion:180 | Resp: 5834      |
| Ion Ratio   | Lower Upper     |
| 180         | 100             |
| 182         | 93.7 74.6 111.8 |
| 145         | 36.6 27.4 41.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 18.275 ug/l

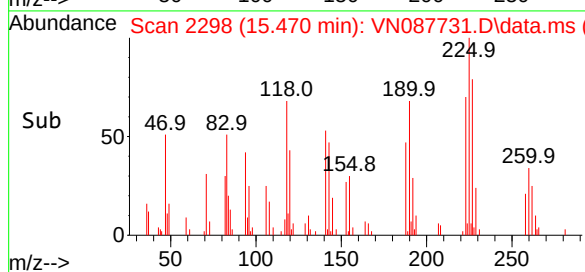
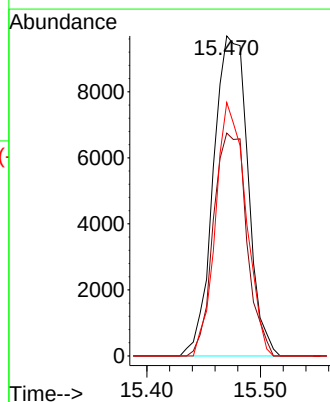
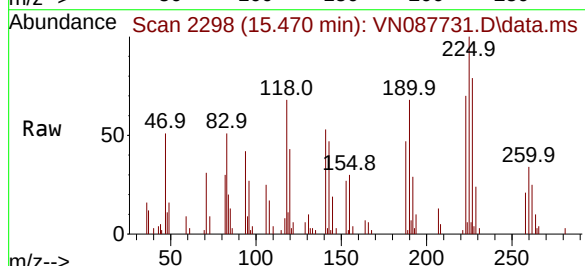
RT: 15.470 min Scan# 2298

Delta R.T. -0.000 min

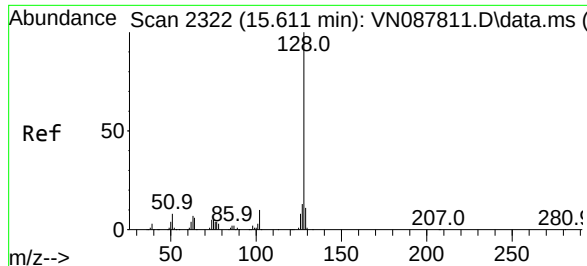
Lab File: VN087731.D

Acq: 04 Sep 2025 18:28

|             |                |
|-------------|----------------|
| Tgt Ion:225 | Resp: 20419    |
| Ion Ratio   | Lower Upper    |
| 225         | 100            |
| 223         | 67.2 0.0 118.2 |
| 227         | 69.7 0.0 139.0 |

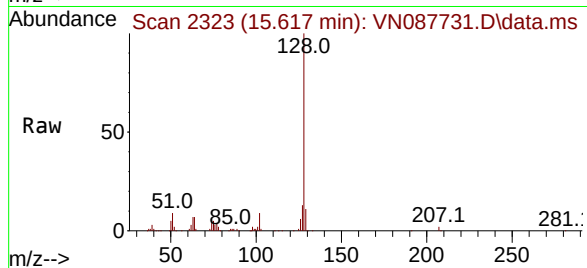






#91  
Naphthalene  
Concen: 16.990 ug/l  
RT: 15.617 min Scan# 2322  
Delta R.T. 0.006 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

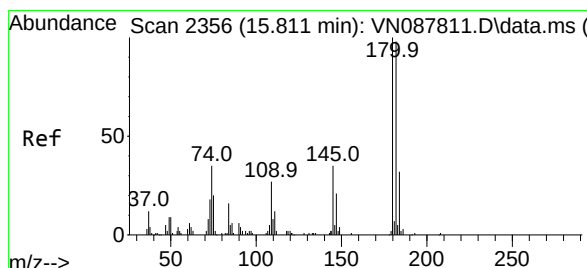
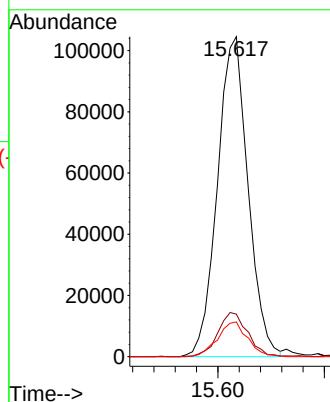
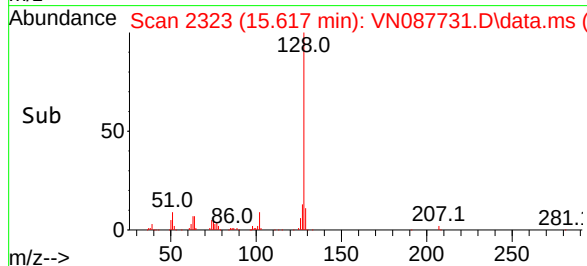
Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425



Tgt Ion:128 Resp: 208469  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.2 15.4  
129 10.7 8.3 12.5

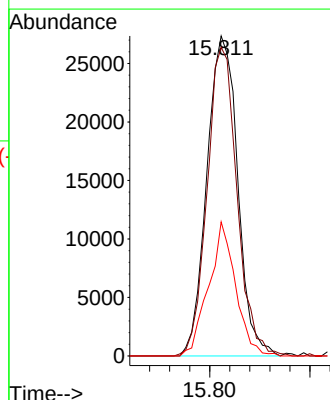
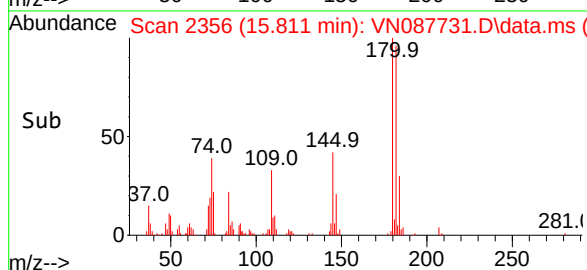
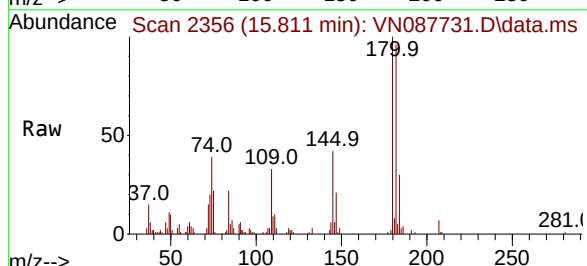
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025  
Supervised By :Mahesh Dadoda 09/05/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 17.505 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087731.D  
Acq: 04 Sep 2025 18:28

Tgt Ion:180 Resp: 58341  
Ion Ratio Lower Upper  
180 100  
182 93.7 0.0 186.4  
145 36.6 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087731.D  
Acq On : 04 Sep 2025 18:28  
Operator : JC\MD  
Sample : VSTDICV020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Quant Time: Sep 05 03:32:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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  | 107   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.865 | 1.713 | 8.2  | 105   | 0.00     |
| 3 M  | Chloromethane               | 1.957 | 1.766 | 9.8  | 106   | 0.00     |
| 4 M  | Vinyl Chloride              | 2.213 | 1.936 | 12.5 | 104   | 0.00     |
| 5 M  | Bromomethane                | 1.298 | 1.158 | 10.8 | 112   | 0.01     |
| 6 M  | Chloroethane                | 1.512 | 1.292 | 14.6 | 102   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.243 | 2.785 | 14.1 | 103   | 0.00     |
| 8 T  | Diethyl Ether               | 1.370 | 1.207 | 11.9 | 111   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.757 | 1.510 | 14.1 | 102   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.811 | 1.584 | 12.5 | 108   | 0.00     |
| 11   | Methyl Iodide               | 1.282 | 0.968 | 24.5 | 111   | 0.01     |
| 12   | Methyl Acetate              | 2.792 | 2.549 | 8.7  | 108   | 0.00     |
| 13 M | Acrolein                    | 0.497 | 0.453 | 8.9  | 113   | 0.00     |
| 14 M | Acrylonitrile               | 1.202 | 1.062 | 11.6 | 108   | 0.00     |
| 15 M | Acetone                     | 0.375 | 0.317 | 15.5 | 107   | 0.00     |
| 16 M | Carbon Disulfide            | 4.972 | 4.458 | 10.3 | 110   | 0.00     |
| 17   | Allyl chloride              | 2.958 | 2.524 | 14.7 | 107   | 0.00     |
| 18 M | Methylene Chloride          | 2.052 | 1.826 | 11.0 | 111   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.847 | 1.624 | 12.1 | 105   | 0.00     |
| 20 T | Diisopropyl ether           | 6.802 | 5.657 | 16.8 | 102   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.725 | 3.283 | 11.9 | 107   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.242 | 1.939 | 13.5 | 105   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.425 | 0.382 | 10.1 | 107   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 6.466 | 5.592 | 13.5 | 108   | 0.00     |
| 25 M | Chloroform                  | 3.899 | 3.382 | 13.3 | 104   | 0.00     |
| 26   | Cyclohexane                 | 2.837 | 2.462 | 13.2 | 108   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.563 | 2.583 | -0.8 | 110   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 111   | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.488 | 0.417 | 14.5 | 104   | 0.00     |
| 30 M | 2-Butanone                  | 0.336 | 0.295 | 12.2 | 109   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.588 | 0.500 | 15.0 | 112   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.618 | 0.545 | 11.8 | 105   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.515 | 0.443 | 14.0 | 106   | 0.00     |
| 34 M | Benzene                     | 1.576 | 1.392 | 11.7 | 108   | 0.00     |
| 35   | Methacrylonitrile           | 0.351 | 0.326 | 7.1  | 105   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.595 | 0.523 | 12.1 | 105   | 0.00     |
| 37 M | Trichloroethene             | 0.352 | 0.292 | 17.0 | 101   | 0.00     |
| 38   | Methylcyclohexane           | 0.537 | 0.449 | 16.4 | 105   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.404 | 0.348 | 13.9 | 104   | 0.00     |
| 40   | Dibromomethane              | 0.300 | 0.269 | 10.3 | 109   | 0.00     |
| 41 M | Bromodichloromethane        | 0.614 | 0.533 | 13.2 | 104   | 0.00     |
| 42 M | Vinyl Acetate               | 1.122 | 0.990 | 11.8 | 110   | 0.00     |
| 43   | Ethyl Acetate               | 0.686 | 0.594 | 13.4 | 102   | 0.00     |
| 44   | Isopropyl Acetate           | 1.076 | 0.938 | 12.8 | 105   | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.007 | 0.006 | 14.3 | 100   | 0.00     |
| 46   | Methyl methacrylate         | 0.496 | 0.432 | 12.9 | 109   | 0.00     |
| 47   | n-amyl Acetate              | 0.727 | 0.551 | 24.2 | 119   | -0.10    |
| 48 M | t-1,3-Dichloropropene       | 0.638 | 0.545 | 14.6 | 109   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
 Data File : VN087731.D  
 Acq On : 04 Sep 2025 18:28  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN090425

Quant Time: Sep 05 03:32:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 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     | 0.653 | 0.563 | 13.8 | 111   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.388 | 0.342 | 11.9 | 108   | 0.00     |
| 51   | Ethyl methacrylate          | 0.604 | 0.523 | 13.4 | 114   | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.674 | 0.596 | 11.6 | 107   | 0.00     |
| 53 M | Dibromochloromethane        | 0.435 | 0.377 | 13.3 | 114   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.404 | 0.348 | 13.9 | 107   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.346 | 0.298 | 13.9 | 104   | 0.00     |
| 56 M | Bromoform                   | 0.284 | 0.249 | 12.3 | 115   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.709 | 0.625 | 11.8 | 107   | 0.00     |
| 59 M | 2-Hexanone                  | 0.464 | 0.395 | 14.9 | 105   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.482 | 0.470 | 2.5  | 107   | 0.00     |
| 61 M | Tetrachloroethene           | 0.299 | 0.262 | 12.4 | 105   | 0.00     |
| 62 M | Toluene                     | 1.815 | 1.618 | 10.9 | 108   | 0.00     |
| 63 S | Toluene-d8                  | 1.395 | 1.380 | 1.1  | 109   | 0.00     |
| 64 M | Chlorobenzene               | 1.114 | 0.968 | 13.1 | 107   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.392 | 0.335 | 14.5 | 106   | 0.00     |
| 66 M | Ethyl Benzene               | 1.958 | 1.699 | 13.2 | 109   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.727 | 0.628 | 13.6 | 109   | 0.00     |
| 68 M | o-Xylene                    | 0.705 | 0.612 | 13.2 | 107   | 0.00     |
| 69 M | Styrene                     | 1.225 | 1.029 | 16.0 | 107   | 0.00     |
| 70   | Isopropylbenzene            | 1.787 | 1.521 | 14.9 | 109   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.642 | 0.569 | 11.4 | 105   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.631 | 0.536 | 15.1 | 93    | 0.00     |
| 73   | Bromobenzene                | 0.437 | 0.375 | 14.2 | 106   | 0.00     |
| 74   | n-propylbenzene             | 2.254 | 1.932 | 14.3 | 107   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.357 | 1.165 | 14.1 | 105   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.509 | 1.312 | 13.1 | 108   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.213 | 0.162 | 23.9 | 99    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.368 | 1.250 | 8.6  | 111   | 0.00     |
| 79   | tert-butylbenzene           | 1.263 | 1.102 | 12.7 | 108   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.547 | 1.327 | 14.2 | 105   | 0.00     |
| 81   | sec-Butylbenzene            | 1.858 | 1.615 | 13.1 | 107   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.531 | 1.327 | 13.3 | 109   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.843 | 0.719 | 14.7 | 102   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.845 | 0.730 | 13.6 | 105   | 0.00     |
| 85   | n-Butylbenzene              | 1.472 | 1.280 | 13.0 | 111   | 0.00     |
| 86 T | Hexachloroethane            | 0.311 | 0.280 | 10.0 | 109   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.795 | 0.716 | 9.9  | 109   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.143 | 0.130 | 9.1  | 104   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.452 | 0.396 | 12.4 | 110   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.152 | 0.138 | 9.2  | 106   | 0.00     |
| 91 M | Naphthalene                 | 1.664 | 1.414 | 15.0 | 109   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.452 | 0.396 | 12.4 | 110   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087731.D  
Acq On : 04 Sep 2025 18:28  
Operator : JC\MD  
Sample : VSTDICV020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Quant Time: Sep 05 03:32:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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  | 107   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.370  | 8.1  | 105   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.050  | 9.7  | 106   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.504  | 12.5 | 104   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.846  | 10.8 | 112   | 0.01     |
| 6 M  | Chloroethane                | 20.000  | 17.094  | 14.5 | 102   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 17.175  | 14.1 | 103   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 17.632  | 11.8 | 111   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 17.189  | 14.1 | 102   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 17.494  | 12.5 | 108   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.097  | 24.5 | 111   | 0.01     |
| 12   | Methyl Acetate              | 20.000  | 18.262  | 8.7  | 108   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 91.132  | 8.9  | 113   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 88.404  | 11.6 | 108   | 0.00     |
| 15 M | Acetone                     | 100.000 | 84.645  | 15.4 | 107   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.930  | 10.4 | 110   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 17.065  | 14.7 | 107   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 17.804  | 11.0 | 111   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.581  | 12.1 | 105   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 16.633  | 16.8 | 102   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 17.627  | 11.9 | 107   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 17.296  | 13.5 | 105   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 90.020  | 10.0 | 107   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.297  | 13.5 | 108   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 17.349  | 13.3 | 104   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.359  | 13.2 | 108   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.234  | -0.8 | 110   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0  | 111   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.099  | 14.5 | 104   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 87.744  | 12.3 | 109   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 17.001  | 15.0 | 112   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 17.650  | 11.8 | 105   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 17.204  | 14.0 | 106   | 0.00     |
| 34 M | Benzene                     | 20.000  | 17.669  | 11.7 | 108   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.531  | 7.3  | 105   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 17.562  | 12.2 | 105   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 16.598  | 17.0 | 101   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 16.745  | 16.3 | 105   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 17.248  | 13.8 | 104   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 17.941  | 10.3 | 109   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.353  | 13.2 | 104   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 88.211  | 11.8 | 110   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.318  | 13.4 | 102   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.448  | 12.8 | 105   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 352.976 | 11.8 | 100   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 17.410  | 13.0 | 109   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 15.166  | 24.2 | 119   | -0.10    |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.087  | 14.6 | 109   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090425\  
Data File : VN087731.D  
Acq On : 04 Sep 2025 18:28  
Operator : JC\MD  
Sample : VSTDICV020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN090425

Quant Time: Sep 05 03:32:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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  | 17.239 | 13.8 | 111   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 17.648 | 11.8 | 108   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.320 | 13.4 | 114   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 17.687 | 11.6 | 107   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 17.347 | 13.3 | 114   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 17.241 | 13.8 | 107   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 86.104 | 13.9 | 104   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 17.508 | 12.5 | 115   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 112   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 88.138 | 11.9 | 107   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 85.197 | 14.8 | 105   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.200 | 2.7  | 107   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 17.528 | 12.4 | 105   | 0.00     |
| 62 M | Toluene                     | 20.000  | 17.829 | 10.9 | 108   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.682 | 1.1  | 109   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.382 | 13.1 | 107   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.110 | 14.5 | 106   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.361 | 13.2 | 109   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 34.562 | 13.6 | 109   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 17.377 | 13.1 | 107   | 0.00     |
| 69 M | Styrene                     | 20.000  | 16.798 | 16.0 | 107   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 17.022 | 14.9 | 109   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 17.703 | 11.5 | 105   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 16.995 | 15.0 | 93    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 17.154 | 14.2 | 106   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 17.141 | 14.3 | 107   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.173 | 14.1 | 105   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.393 | 13.0 | 108   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 15.243 | 23.8 | 99    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.280 | 8.6  | 111   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 17.436 | 12.8 | 108   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 17.154 | 14.2 | 105   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 17.385 | 13.1 | 107   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 17.337 | 13.3 | 109   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.075 | 14.6 | 102   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 17.287 | 13.6 | 105   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 17.390 | 13.0 | 111   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.975 | 10.1 | 109   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.016 | 9.9  | 109   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.204 | 9.0  | 104   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 17.505 | 12.5 | 110   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.275 | 8.6  | 106   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 16.990 | 15.1 | 109   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 17.505 | 12.5 | 110   | 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>ALLI03</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3015</u>                        |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/17/2025</u> <u>09:42</u>      |
| Lab File ID:        | <u>VN087869.D</u> | Init. Calib. Date(s):  | <u>09/04/2025</u> <u>09/04/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>16:23</u> <u>17:46</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)                    |

| COMPOUND                       | RRF   | RRF020 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 1.865 | 1.833  |            | -1.72  |       |
| Chloromethane                  | 1.957 | 1.487  |            | -24.02 |       |
| Vinyl Chloride                 | 2.213 | 1.692  | 0.1        | -23.54 |       |
| Ethyl Acetate                  | 0.686 | 0.591  |            | -13.85 |       |
| Bromomethane                   | 1.298 | 0.922  | 0.1        | -28.97 |       |
| Chloroethane                   | 1.512 | 1.076  |            | -28.84 |       |
| Trichlorofluoromethane         | 3.243 | 2.707  |            | -16.53 |       |
| 1,1,2-Trichlorotrifluoroethane | 1.757 | 1.557  |            | -11.38 |       |
| 1,1-Dichloroethene             | 1.811 | 1.471  | 0.1        | -18.77 |       |
| Acrolein                       | 0.497 | 0.578  |            | 16.3   |       |
| Acrylonitrile                  | 1.202 | 1.090  |            | -9.32  |       |
| Acetone                        | 0.375 | 0.315  |            | -16    |       |
| Carbon Disulfide               | 4.972 | 4.145  |            | -16.63 |       |
| Methyl tert-Butyl Ether        | 6.466 | 6.174  |            | -4.52  |       |
| Methylene Chloride             | 2.052 | 1.906  |            | -7.11  |       |
| trans-1,2-Dichloroethene       | 1.847 | 1.654  |            | -10.45 |       |
| Vinyl Acetate                  | 1.122 | 0.929  |            | -17.2  |       |
| 1,1-Dichloroethane             | 3.725 | 3.405  | 0.2        | -8.59  |       |
| 2-Butanone                     | 0.336 | 0.296  |            | -11.9  |       |
| Carbon Tetrachloride           | 0.515 | 0.484  | 0.1        | -6.02  |       |
| 2,2-Dichloropropane            | 0.588 | 0.608  |            | 3.4    |       |
| cis-1,2-Dichloroethene         | 2.242 | 2.095  |            | -6.56  |       |
| Chloroform                     | 3.899 | 3.643  | 0.2        | -6.57  |       |
| 1,1,1-Trichloroethane          | 0.618 | 0.585  | 0.1        | -5.34  |       |
| 1,1-Dichloropropene            | 0.488 | 0.435  |            | -10.86 |       |
| Benzene                        | 1.576 | 1.389  | 0.5        | -11.86 |       |
| 1,2-Dichloroethane             | 0.595 | 0.532  | 0.1        | -10.59 |       |
| Trichloroethene                | 0.352 | 0.336  | 0.3        | -4.55  |       |
| 1,2-Dichloropropane            | 0.404 | 0.353  |            | -12.62 |       |
| Dibromomethane                 | 0.300 | 0.267  |            | -11    |       |
| Bromodichloromethane           | 0.614 | 0.543  | 0.2        | -11.56 |       |
| 4-Methyl-2-Pentanone           | 0.709 | 0.635  |            | -10.44 |       |
| Toluene                        | 1.815 | 1.660  | 0.4        | -8.54  |       |
| t-1,3-Dichloropropene          | 0.638 | 0.544  | 0.1        | -14.73 |       |
| cis-1,3-Dichloropropene        | 0.653 | 0.584  | 0.2        | -10.57 |       |
| 1,1,2-Trichloroethane          | 0.388 | 0.361  | 0.1        | -6.96  |       |
| 1,3-Dichloropropane            | 0.674 | 0.588  |            | -12.76 |       |
| 2-Chloroethyl vinyl ether      | 0.346 | 0.310  |            | -10.4  |       |

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>ALLI03</u>                |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3015</u>                 |
| Instrument ID:      | <u>MSVOA_N</u>    | Calibration Date/Time: | <u>09/17/2025 09:42</u>      |
| Lab File ID:        | <u>VN087869.D</u> | Init. Calib. Date(s):  | <u>09/04/2025 09/04/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>16:23 17:46</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                    | RRF   | RRF020 | MIN<br>RRF | %D     | MAX%D |
|-----------------------------|-------|--------|------------|--------|-------|
| 2-Hexanone                  | 0.464 | 0.410  |            | -11.64 |       |
| Dibromochloromethane        | 0.435 | 0.404  | 0.1        | -7.13  |       |
| 1,2-Dibromoethane           | 0.404 | 0.365  |            | -9.65  |       |
| Tetrachloroethene           | 0.299 | 0.295  | 0.2        | -1.34  |       |
| Chlorobenzene               | 1.114 | 1.042  | 0.5        | -6.46  |       |
| 1,1,1,2-Tetrachloroethane   | 0.392 | 0.377  |            | -3.83  |       |
| Ethyl Benzene               | 1.958 | 1.821  | 0.1        | -7     |       |
| m/p-Xylenes                 | 0.727 | 0.678  | 0.3        | -6.74  |       |
| o-Xylene                    | 0.705 | 0.643  | 0.3        | -8.79  |       |
| Styrene                     | 1.225 | 1.108  | 0.3        | -9.55  |       |
| Bromoform                   | 0.284 | 0.265  | 0.1        | -6.69  |       |
| Isopropylbenzene            | 1.787 | 1.706  |            | -4.53  |       |
| 1,1,2,2-Tetrachloroethane   | 0.642 | 0.598  | 0.3        | -6.85  |       |
| 1,2,3-Trichloropropane      | 0.631 | 0.561  |            | -11.09 |       |
| Bromobenzene                | 0.437 | 0.413  |            | -5.49  |       |
| n-propylbenzene             | 2.254 | 2.140  |            | -5.06  |       |
| 2-Chlorotoluene             | 1.357 | 1.275  |            | -6.04  |       |
| 1,3,5-Trimethylbenzene      | 1.509 | 1.446  |            | -4.18  |       |
| 4-Chlorotoluene             | 1.368 | 1.243  |            | -9.14  |       |
| 1,2,4-Trimethylbenzene      | 1.547 | 1.455  |            | -5.95  |       |
| sec-Butylbenzene            | 1.858 | 1.868  |            | 0.54   |       |
| p-Isopropyltoluene          | 1.531 | 1.554  |            | 1.5    |       |
| 1,3-Dichlorobenzene         | 0.843 | 0.828  | 0.2        | -1.78  |       |
| 1,4-Dichlorobenzene         | 0.845 | 0.856  | 0.2        | 1.3    |       |
| n-Butylbenzene              | 1.472 | 1.461  |            | -0.75  |       |
| 1,2-Dichlorobenzene         | 0.795 | 0.815  | 0.2        | 2.52   |       |
| 1,2-Dibromo-3-Chloropropane | 0.143 | 0.132  |            | -7.69  |       |
| 1,2,4-Trichlorobenzene      | 0.452 | 0.458  | 0.2        | 1.33   |       |
| Hexachlorobutadiene         | 0.152 | 0.173  |            | 13.82  |       |
| Naphthalene                 | 1.664 | 1.553  |            | -6.67  |       |
| 1,2,3-Trichlorobenzene      | 0.452 | 0.458  |            | 1.33   |       |
| 1,2-Dichloroethane-d4       | 2.563 | 2.512  | 0.01       | -1.99  |       |
| Toluene-d8                  | 1.395 | 1.343  | 0.01       | -3.73  |       |
| 4-Bromofluorobenzene        | 0.482 | 0.479  | 0.2        | -0.62  |       |

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\VN091725\  
 Data File : VN087869.D  
 Acq On : 17 Sep 2025 09:42  
 Operator : JC\MD  
 Sample : VSTDC0020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDC0020

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:06:05 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards           |                |      |            |         |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 52147      | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 281875     | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 258937     | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 130992     | 29.406  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 98.033% |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 123908     | 29.761  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 99.200% |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 347757     | 28.879  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 96.267% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.148          | 85   | 63728      | 19.663  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 51699      | 15.195  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.536          | 62   | 58815      | 15.293  | ug/l   | 92       |
| 5) Bromomethane              | 2.977          | 94   | 32049      | 14.205  | ug/l   | 96       |
| 6) Chloroethane              | 3.136          | 64   | 37417      | 14.235  | ug/l # | 79       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 94114      | 16.695  | ug/l   | 87       |
| 8) Diethyl Ether             | 3.959          | 74   | 34918      | 14.668  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 54116      | 17.723  | ug/l   | 60       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 51148      | 16.247  | ug/l   | 94       |
| 11) Methyl Iodide            | 4.583          | 142  | 27462      | 12.324  | ug/l   | 87       |
| 12) Methyl Acetate           | 5.018          | 43   | 93838      | 19.337  | ug/l   | 95       |
| 13) Acrolein                 | 4.177          | 56   | 100412     | 116.214 | ug/l # | 38       |
| 14) Acrylonitrile            | 5.712          | 53   | 189426     | 90.687  | ug/l   | 97       |
| 15) Acetone                  | 4.424          | 58   | 54742      | 84.010  | ug/l   | 95       |
| 16) Carbon Disulfide         | 4.700          | 76   | 144116     | 16.674  | ug/l # | 93       |
| 17) Allyl chloride           | 5.018          | 41   | 88841m     | 17.278  | ug/l   |          |
| 18) Methylene Chloride       | 5.265          | 84   | 66255      | 18.580  | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 5.765          | 96   | 57498      | 17.909  | ug/l   | 96       |
| 20) Diisopropyl ether        | 6.659          | 45   | 211964     | 17.926  | ug/l # | 96       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 118384     | 18.283  | ug/l   | 95       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 72845      | 18.692  | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 68111      | 92.244  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 214645     | 19.098  | ug/l # | 80       |
| 25) Chloroform               | 7.947          | 83   | 126632     | 18.683  | ug/l   | 88       |
| 26) Cyclohexane              | 8.236          | 56   | 91476      | 18.551  | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 8.347          | 75   | 81669      | 17.828  | ug/l   | 97       |
| 30) 2-Butanone               | 7.465          | 43   | 278175     | 88.150  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 114169     | 20.675  | ug/l # | 78       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 109869     | 18.918  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 91042      | 18.801  | ug/l   | 89       |
| 34) Benzene                  | 8.588          | 78   | 260993     | 17.628  | ug/l # | 91       |
| 35) Methacrylonitrile        | 7.759          | 41   | 56919      | 17.244  | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 99931      | 17.869  | ug/l   | 98       |
| 37) Trichloroethene          | 9.335          | 130  | 63179      | 19.090  | ug/l   | 93       |
| 38) Methylcyclohexane        | 9.583          | 83   | 93569      | 18.550  | ug/l   | 95       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 66336      | 17.494  | ug/l   | 90       |
| 40) Dibromomethane           | 9.688          | 93   | 50151      | 17.772  | ug/l   | 96       |
| 41) Bromodichloromethane     | 9.871          | 83   | 102024     | 17.689  | ug/l # | 93       |
| 42) Vinyl Acetate            | 6.589          | 43   | 873112     | 82.808  | ug/l   | 98       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087869.D  
 Acq On : 17 Sep 2025 09:42  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VSTDCCC020

## Manual Integrations

## APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:06:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Sep 05 03:29:53 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 111034   | 17.221  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 173222   | 17.138  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.677  | 88   | 22600    | 354.558 | ug/l # | 79       |
| 46) Methyl methacrylate       | 9.665  | 41   | 78333    | 16.814  | ug/l   | 93       |
| 47) n-amyl Acetate            | 12.618 | 43   | 103656m  | 15.176  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 102141   | 17.051  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 109669   | 17.874  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 67907    | 18.631  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 96353    | 16.987  | ug/l   | 94       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 110479   | 17.456  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.335 | 129  | 75842    | 18.558  | ug/l   | 91       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 68595    | 18.087  | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 290841   | 89.490  | ug/l   | 98       |
| 56) Bromoform                 | 12.565 | 173  | 49888    | 18.693  | ug/l   | 97       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 548165   | 89.532  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 353570   | 88.377  | ug/l   | 96       |
| 61) Tetrachloroethene         | 11.082 | 164  | 50927    | 19.754  | ug/l   | 96       |
| 62) Toluene                   | 10.606 | 91   | 286562   | 18.296  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 179893   | 18.713  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 65113    | 19.239  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 314293m  | 18.600  | ug/l   |          |
| 67) m/p-Xylenes               | 12.053 | 106  | 233991   | 37.305  | ug/l   | 93       |
| 68) o-Xylene                  | 12.376 | 106  | 110935   | 18.241  | ug/l   | 95       |
| 69) Styrene                   | 12.394 | 104  | 191265   | 18.095  | ug/l   | 97       |
| 70) Isopropylbenzene          | 12.671 | 105  | 294417   | 19.093  | ug/l   | 97       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 103192   | 18.614  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.971 | 75   | 96909m   | 17.804  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 71265    | 18.889  | ug/l   | 92       |
| 74) n-propylbenzene           | 13.012 | 91   | 369477   | 18.990  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.100 | 91   | 220111   | 18.796  | ug/l   | 96       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 249532   | 19.162  | ug/l   | 95       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 34144m   | 18.585  | ug/l   |          |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 214620   | 18.179  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.418 | 119  | 217594   | 19.953  | ug/l   | 95       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 251183   | 18.815  | ug/l   | 96       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 322425   | 20.100  | ug/l   | 97       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 268282   | 20.299  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 142978   | 19.657  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 147719   | 20.261  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 252165   | 19.849  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.306 | 117  | 53724    | 20.013  | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 140678   | 20.507  | ug/l   | 94       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 22720    | 18.468  | ug/l   | 89       |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 78987    | 20.244  | ug/l   | 95       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 29826    | 22.803  | ug/l   | 94       |
| 91) Naphthalene               | 15.612 | 128  | 268102   | 18.665  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 78987    | 20.244  | ug/l   | 95       |

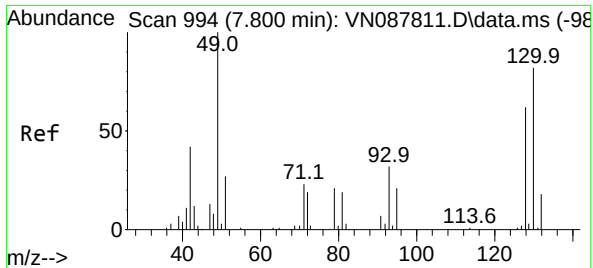
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VSTDCCC020

## Manual Integrations APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025





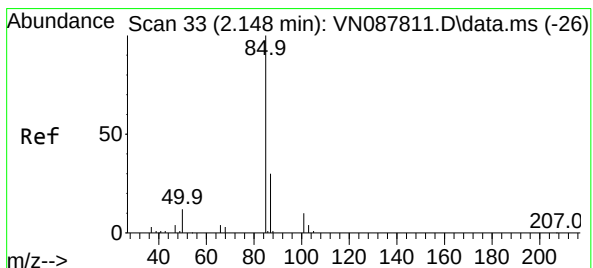
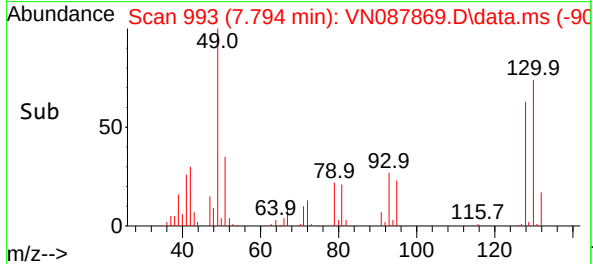
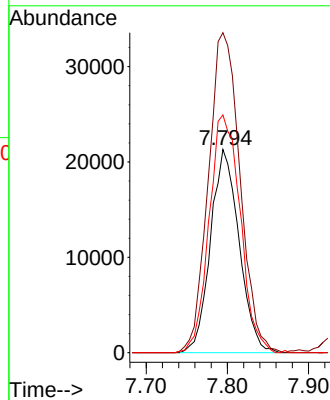
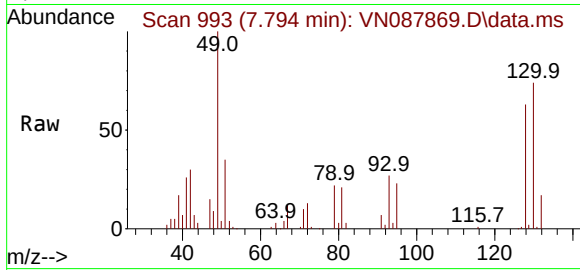
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Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:128 Resp: 5214  
Ion Ratio Lower Upper  
128 100  
49 174.3 0.0 464.3  
130 127.3 0.0 300.5

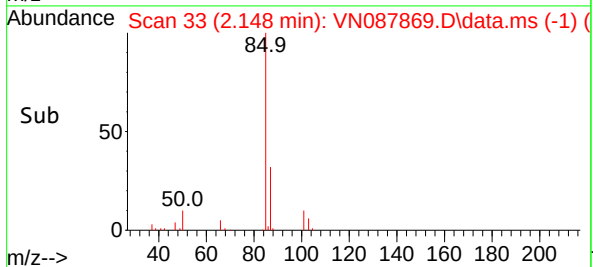
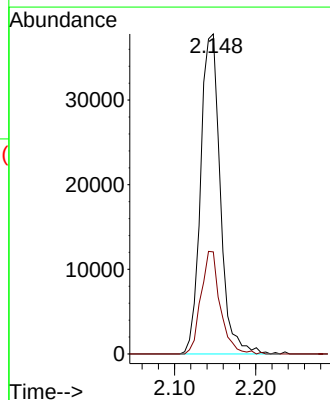
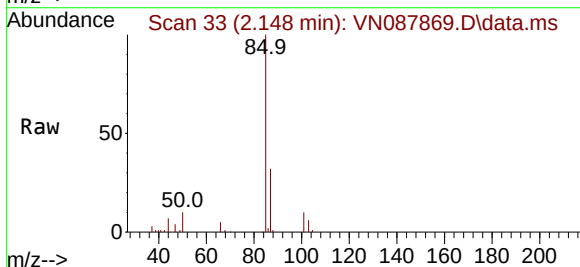
Manual Integrations  
APPROVED

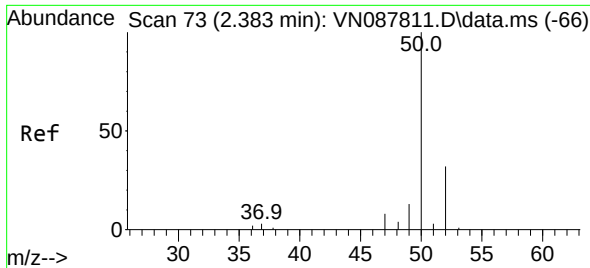
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#2  
Dichlorodifluoromethane  
Concen: 19.663 ug/l  
RT: 2.148 min Scan# 33  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 85 Resp: 63728  
Ion Ratio Lower Upper  
85 100  
87 31.9 16.8 50.4





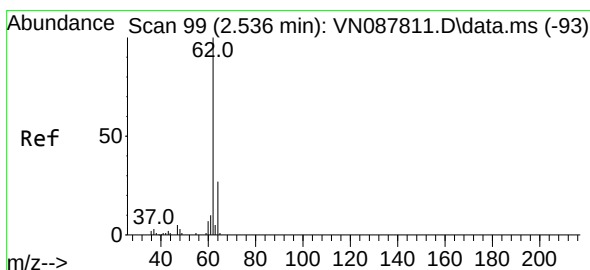
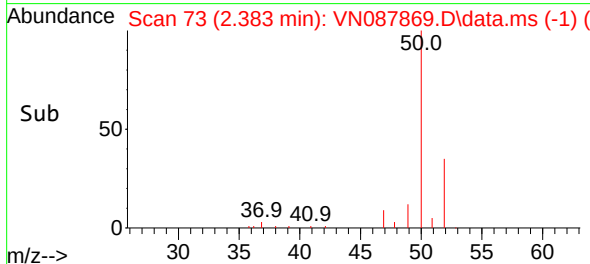
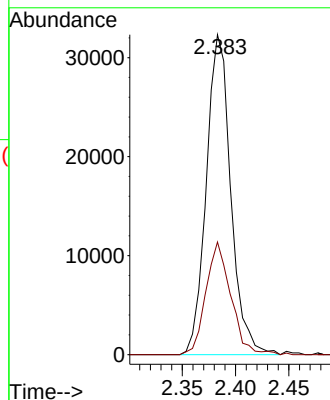
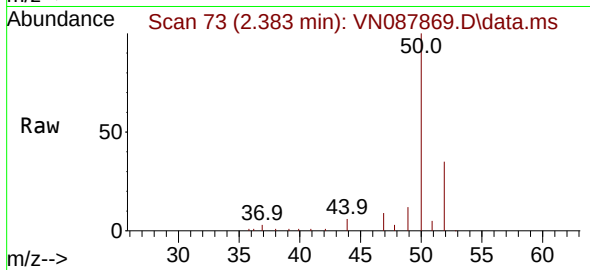
#3  
Chloromethane  
Concen: 15.195 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 50 Resp: 51699  
Ion Ratio Lower Upper  
50 100  
52 35.2 26.6 40.0

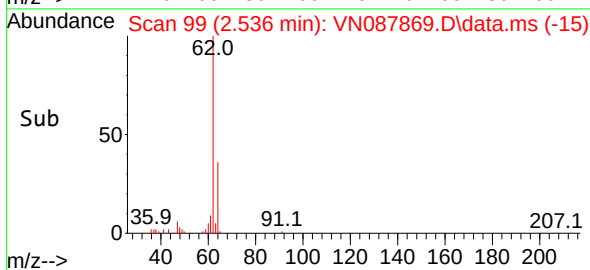
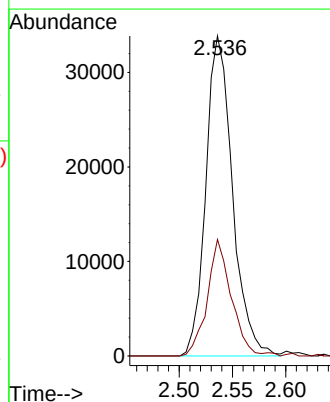
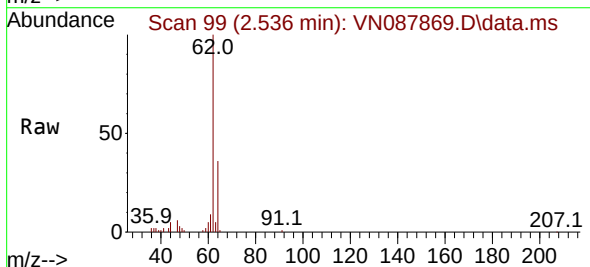
Manual Integrations  
APPROVED

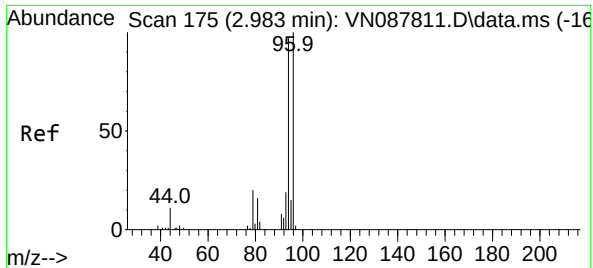
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#4  
Vinyl Chloride  
Concen: 15.293 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 62 Resp: 58815  
Ion Ratio Lower Upper  
62 100  
64 36.4 25.5 38.3





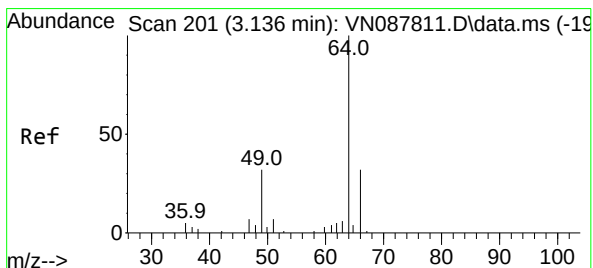
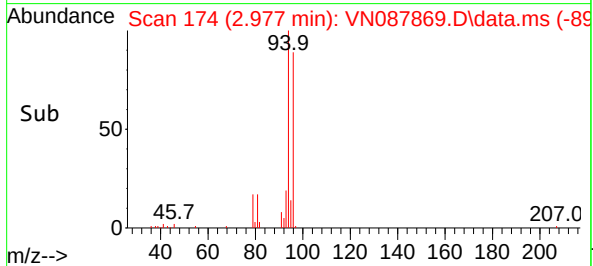
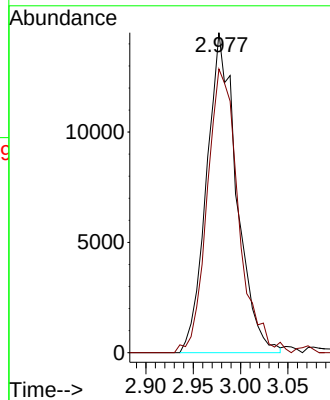
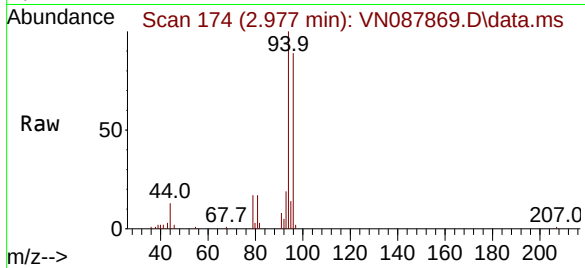
#5  
Bromomethane  
Concen: 14.205 ug/l  
RT: 2.977 min Scan# 174  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 94 Resp: 32049  
Ion Ratio Lower Upper  
94 100  
96 86.2 72.2 108.4

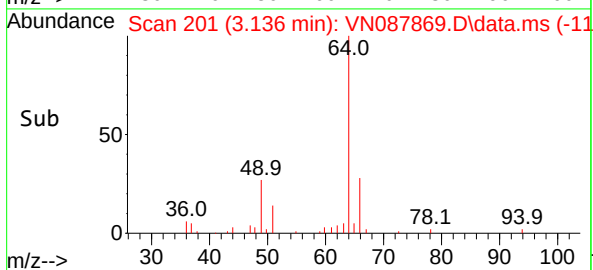
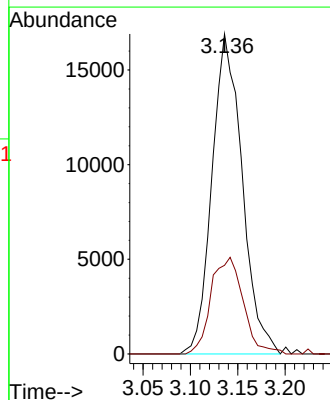
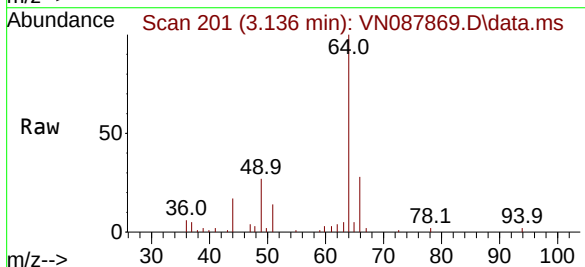
Manual Integrations  
APPROVED

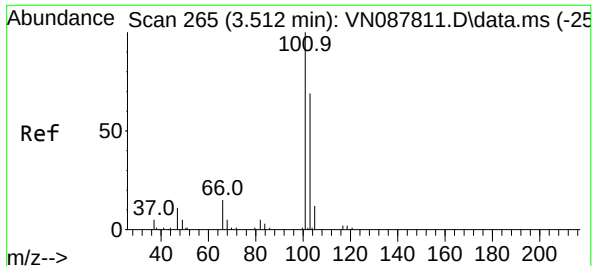
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#6  
Chloroethane  
Concen: 14.235 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 64 Resp: 37417  
Ion Ratio Lower Upper  
64 100  
66 27.7 32.8 49.2#





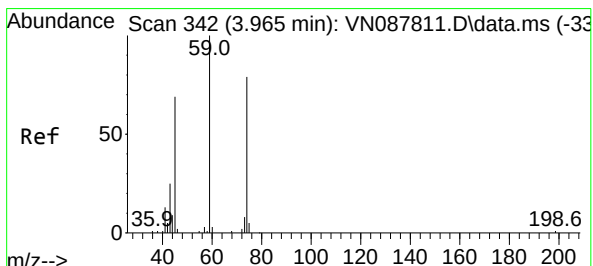
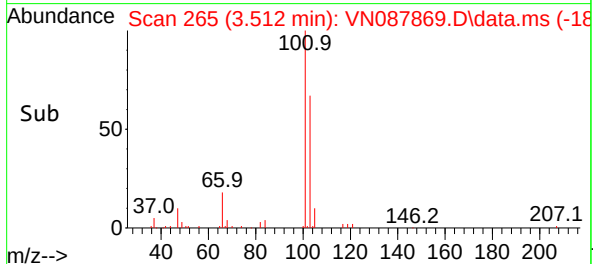
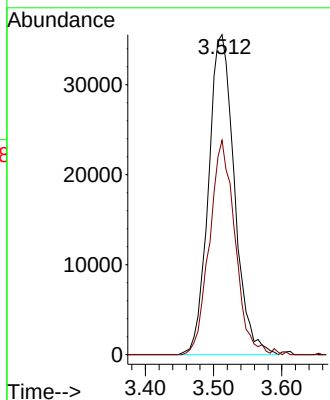
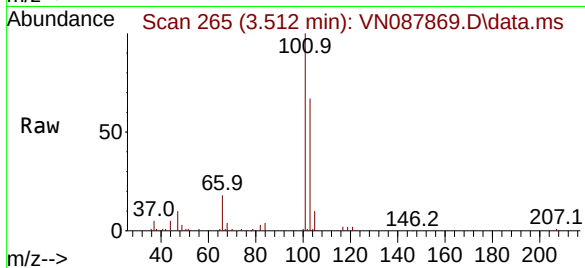
#7  
Trichlorofluoromethane  
Concen: 16.695 ug/l  
RT: 3.512 min Scan# 201  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:101 Resp: 94114  
Ion Ratio Lower Upper  
101 100  
103 67.0 45.7 68.5

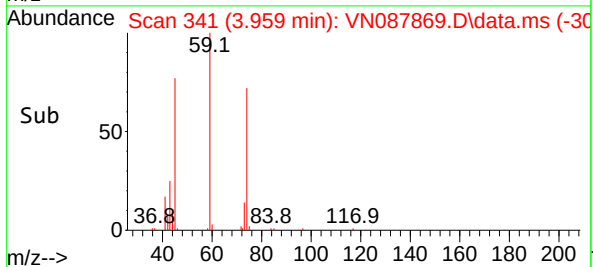
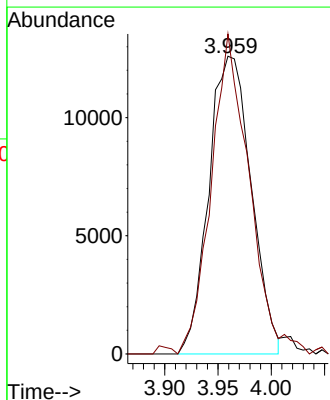
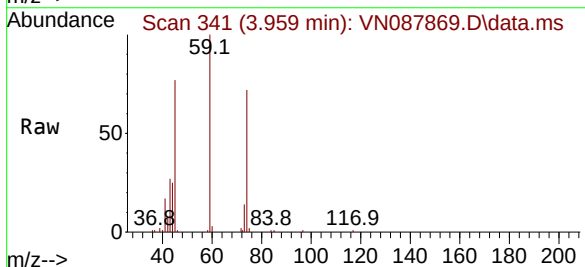
Manual Integrations  
APPROVED

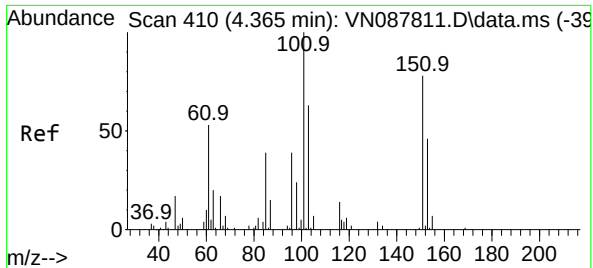
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#8  
Diethyl Ether  
Concen: 14.668 ug/l  
RT: 3.959 min Scan# 341  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 74 Resp: 34918  
Ion Ratio Lower Upper  
74 100  
45 94.1 20.4 183.8





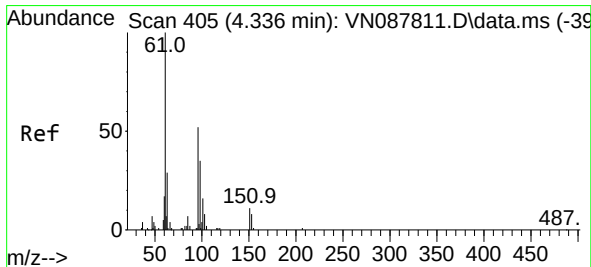
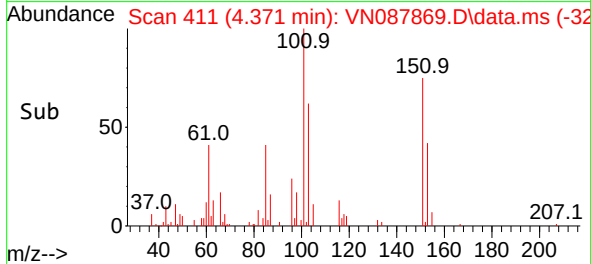
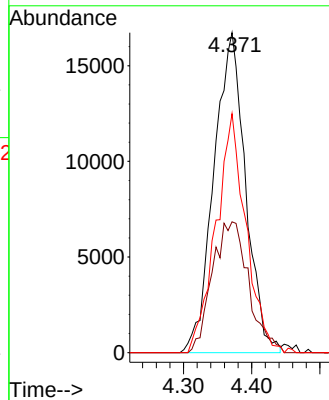
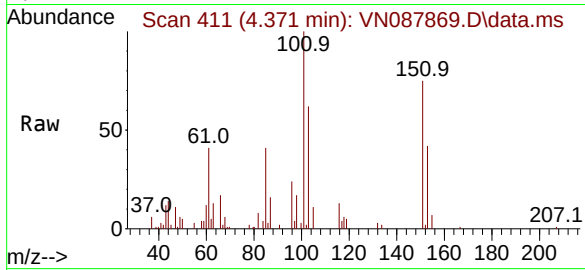
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1,1,2-Trichlorotrifluoroethane  
Concen: 17.723 ug/l  
RT: 4.371 min Scan# 411  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:101 Resp: 54110  
Ion Ratio Lower Upper  
101 100  
85 22.7 0.0 95.6  
151 70.4 0.0 85.8

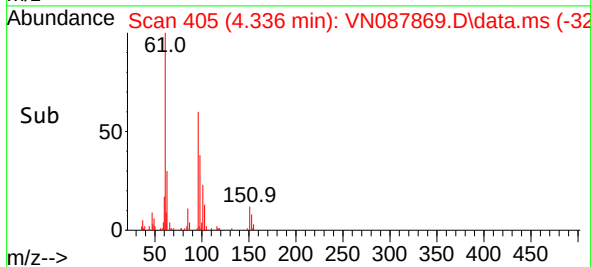
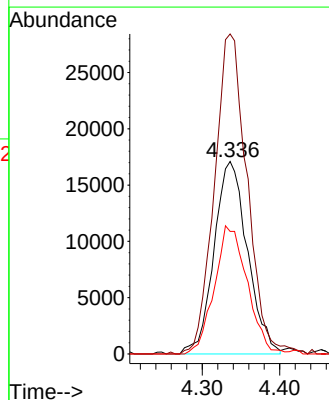
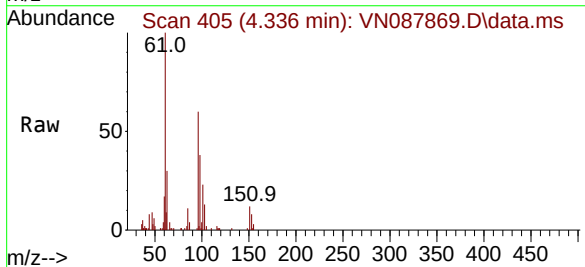
Manual Integrations  
APPROVED

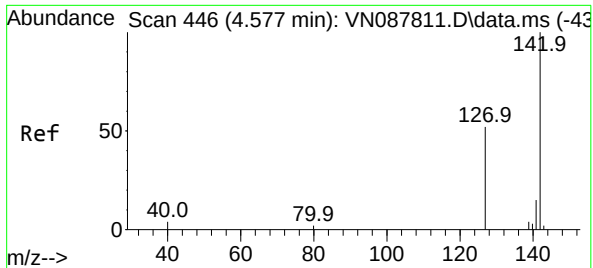
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#10  
1,1-Dichloroethene  
Concen: 16.247 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

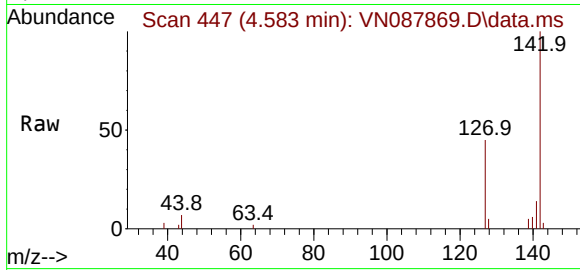
Tgt Ion: 96 Resp: 51148  
Ion Ratio Lower Upper  
96 100  
61 166.2 135.9 203.9  
98 63.7 59.2 88.8





#11  
Methyl Iodide  
Concen: 12.324 ug/l  
RT: 4.583 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

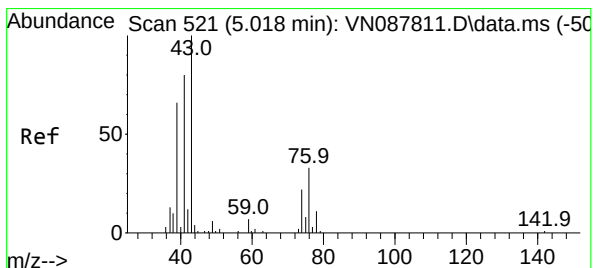
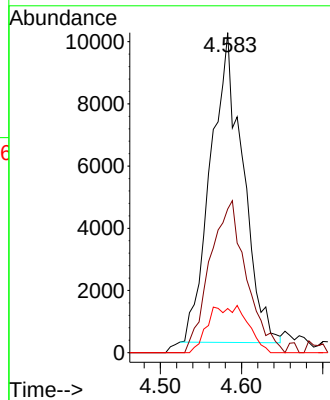
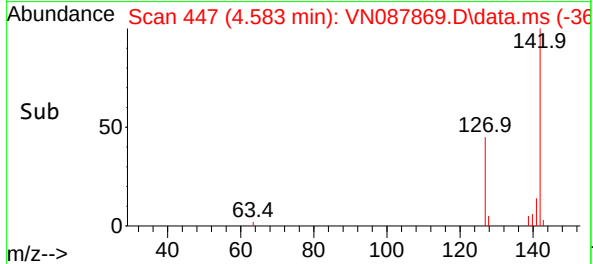
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDC020



Tgt Ion:142 Resp: 2746  
Ion Ratio Lower Upper  
142 100  
127 45.9 27.9 83.7  
141 14.4 9.6 28.8

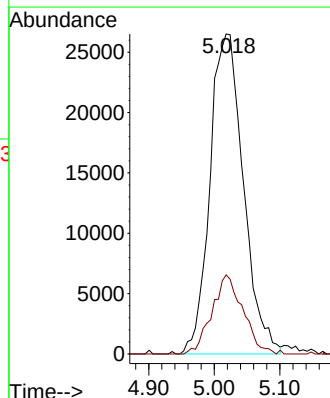
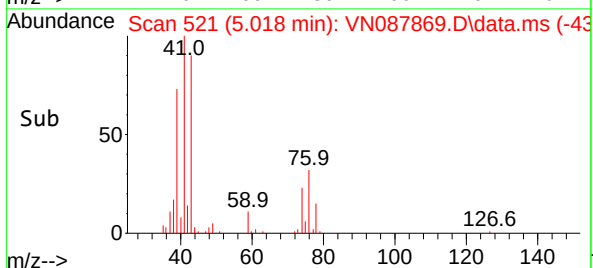
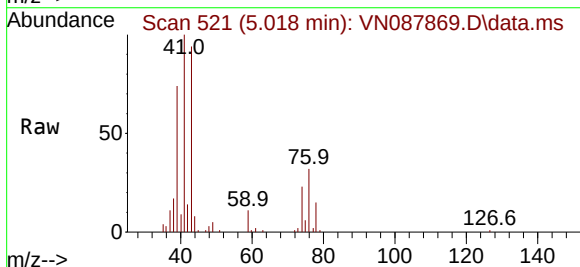
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

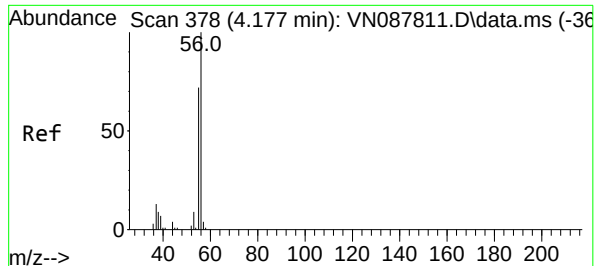


#12  
Methyl Acetate  
Concen: 19.337 ug/l  
RT: 5.018 min Scan# 521  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 43 Resp: 93838  
Ion Ratio Lower Upper  
43 100  
74 24.4 17.5 26.3







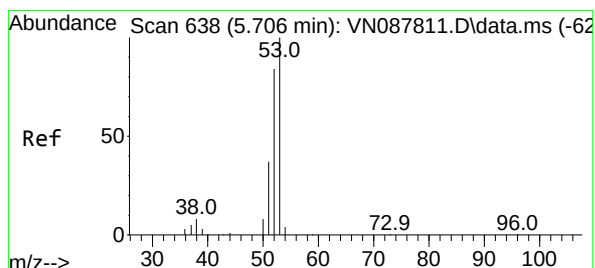
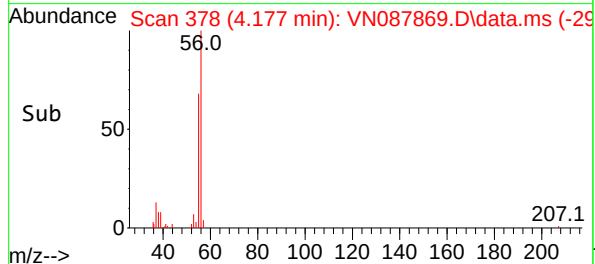
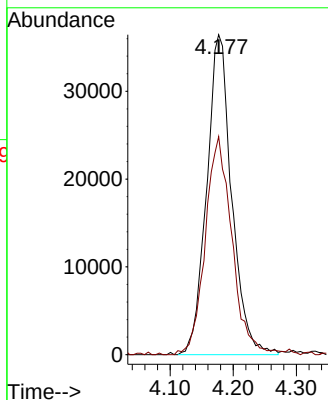
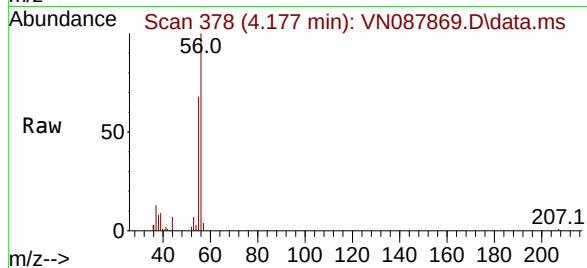
#13  
Acrolein  
Concen: 116.214 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 56 Resp: 100412  
Ion Ratio Lower Upper  
56 100  
55 72.1 28.6 42.8

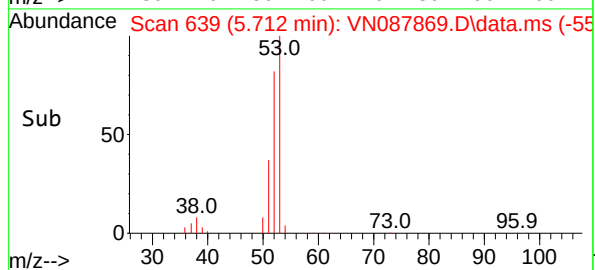
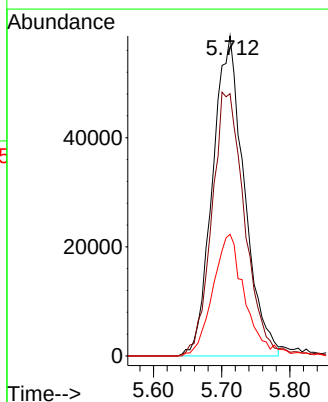
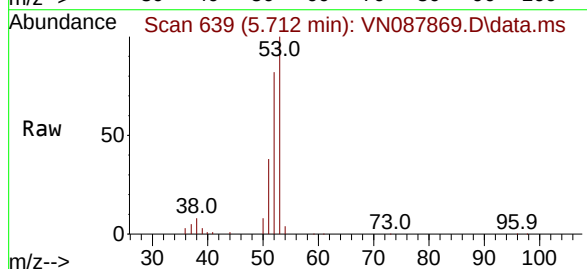
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APPROVED

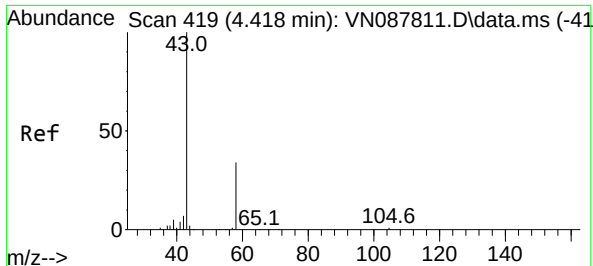
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#14  
Acrylonitrile  
Concen: 90.687 ug/l  
RT: 5.712 min Scan# 639  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 53 Resp: 189426  
Ion Ratio Lower Upper  
53 100  
52 84.7 40.9 122.7  
51 37.4 18.1 54.1





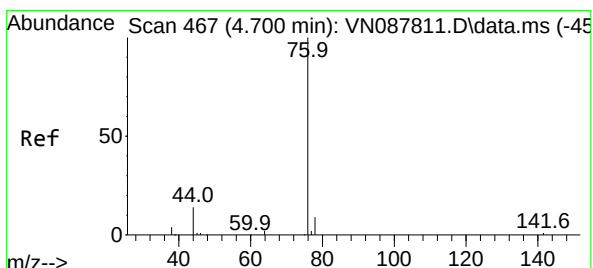
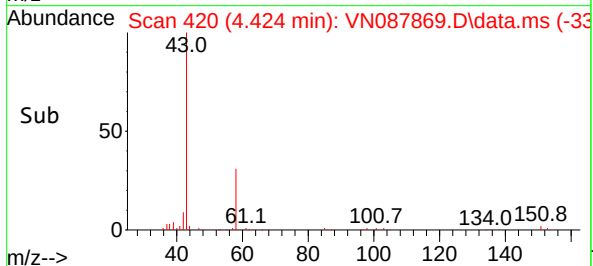
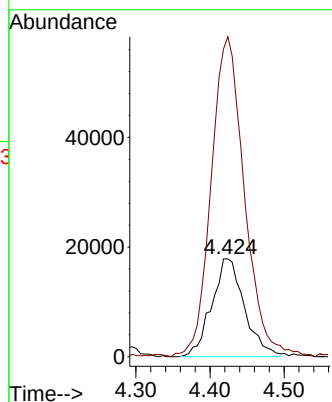
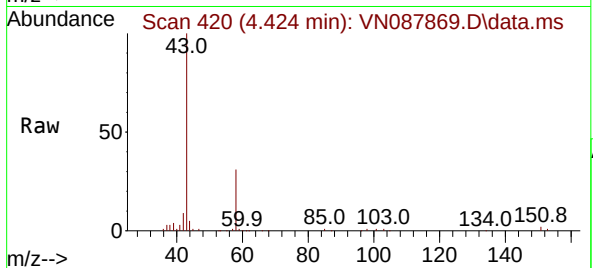
#15  
Acetone  
Concen: 84.010 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 58 Resp: 5474  
Ion Ratio Lower Upper  
58 100  
43 323.8 250.6 376.0

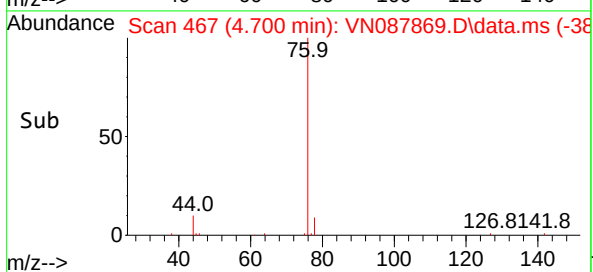
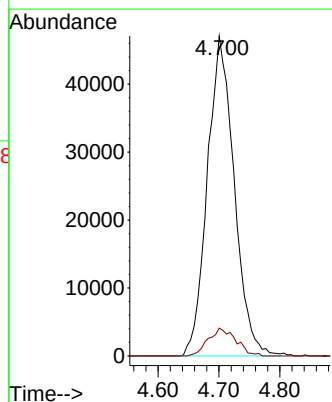
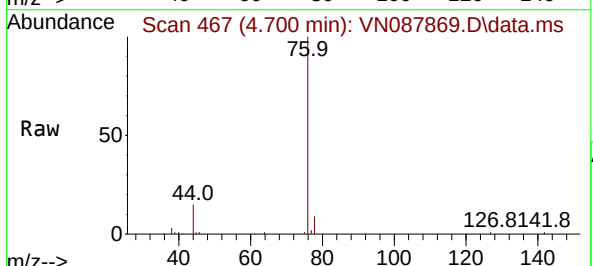
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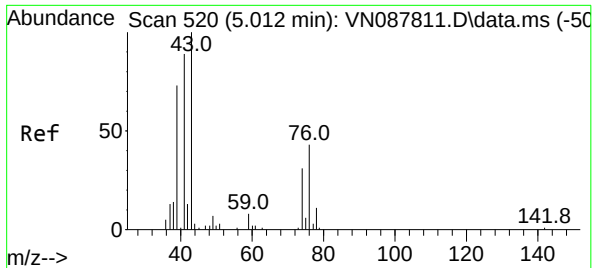
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#16  
Carbon Disulfide  
Concen: 16.674 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 76 Resp: 144116  
Ion Ratio Lower Upper  
76 100  
78 8.7 5.0 7.6#





#17

Allyl chloride

Concen: 17.278 ug/l m

RT: 5.018 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 41 Resp: 8884

Ion Ratio Lower Upper

41 100

39 74.1 36.7 110.1

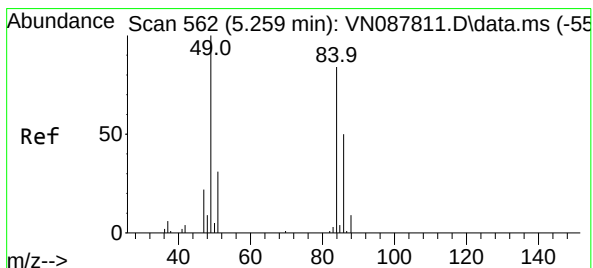
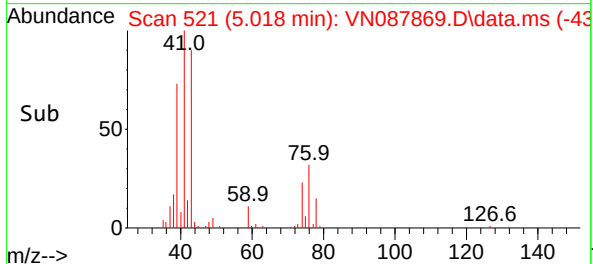
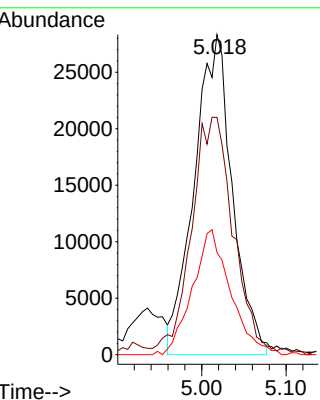
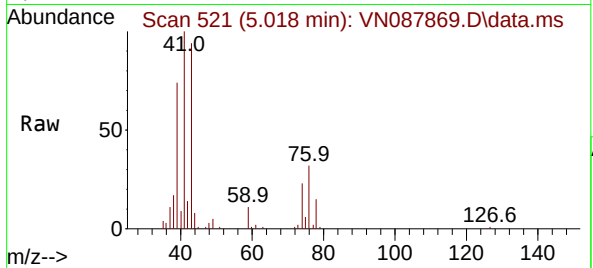
76 31.9 18.3 54.8

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methylene Chloride

Concen: 18.580 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Tgt Ion: 84 Resp: 66255

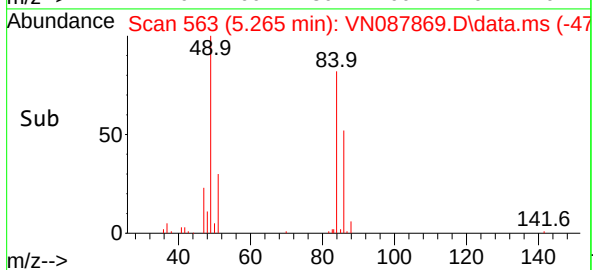
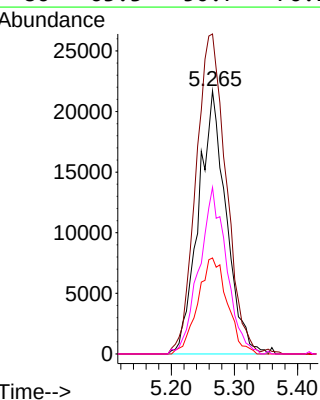
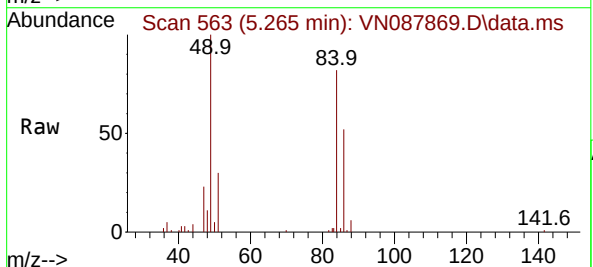
Ion Ratio Lower Upper

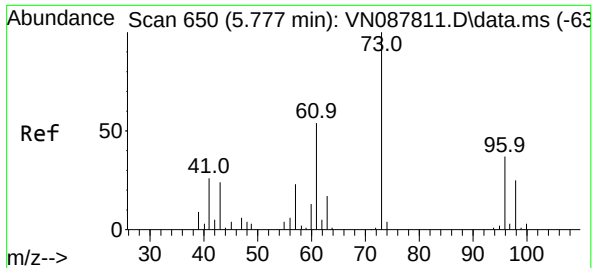
84 100

49 121.6 114.1 171.1

51 36.5 30.2 45.4

86 63.3 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 17.909 ug/l

RT: 5.765 min Scan# 648

Delta R.T. -0.012 min

Lab File: VN087869.D

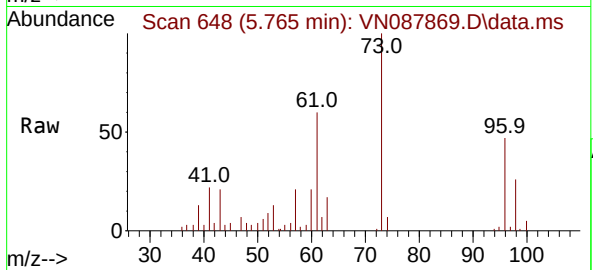
Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020



Tgt Ion: 96 Resp: 57498

Ion Ratio Lower Upper

96 100

61 128.8 106.4 159.6

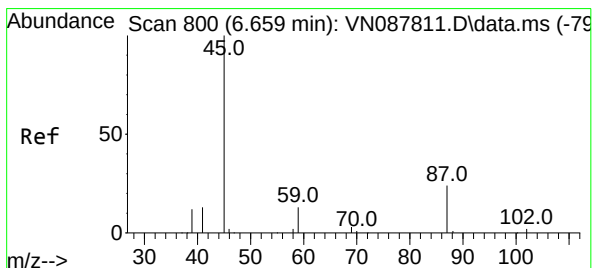
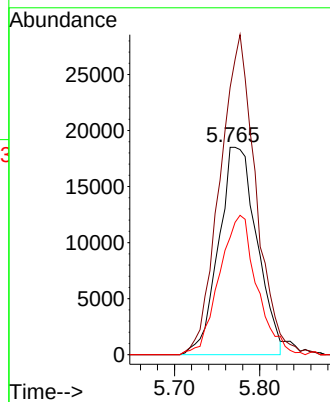
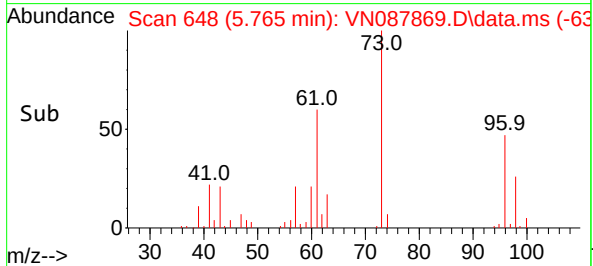
98 56.6 48.9 73.3

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Diisopropyl ether

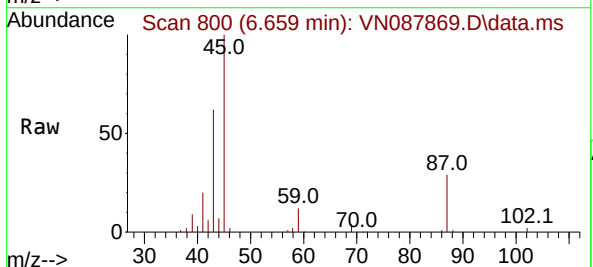
Concen: 17.926 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42



Tgt Ion: 45 Resp: 211964

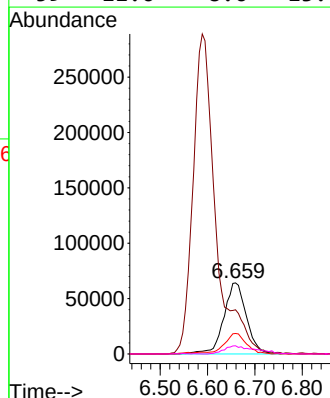
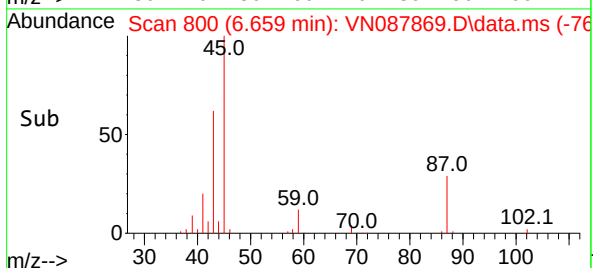
Ion Ratio Lower Upper

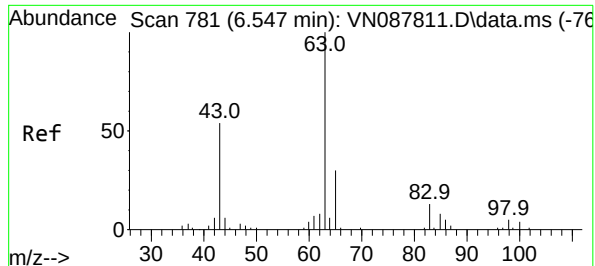
45 100

43 60.1 49.5 74.3

87 28.9 18.8 28.2

59 11.6 8.6 13.0





#21

1,1-Dichloroethane

Concen: 18.283 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 118384

Ion Ratio Lower Upper

63 100

98 8.2 2.9 8.8

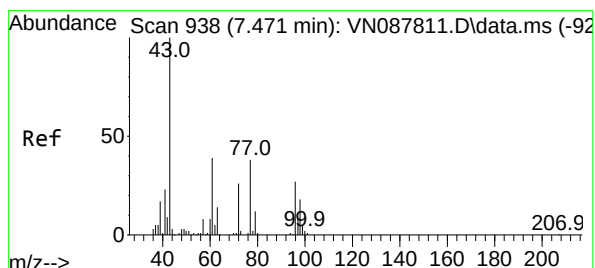
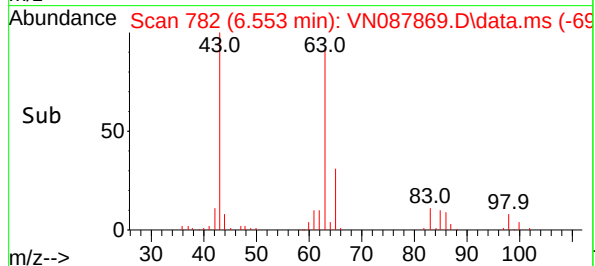
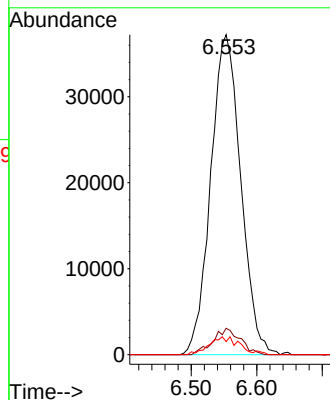
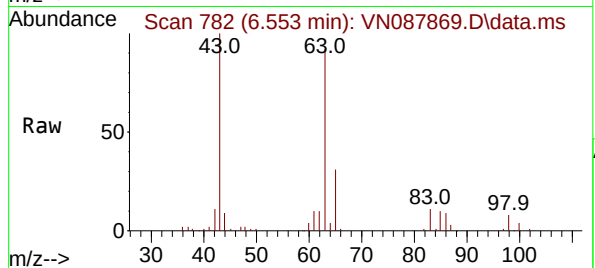
100 4.1 1.8 5.3

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

cis-1,2-Dichloroethene

Concen: 18.692 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

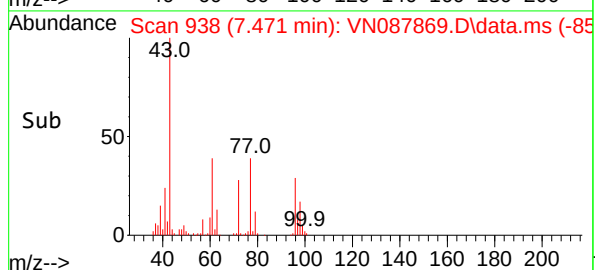
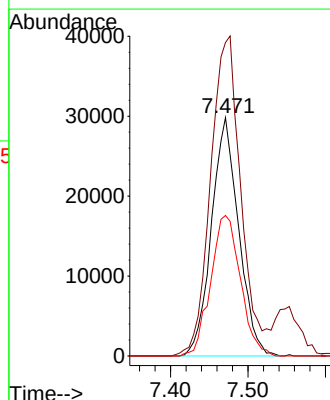
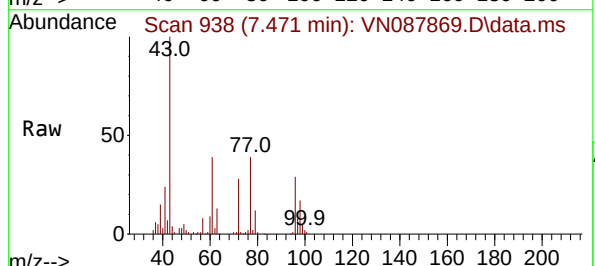
Tgt Ion: 96 Resp: 72845

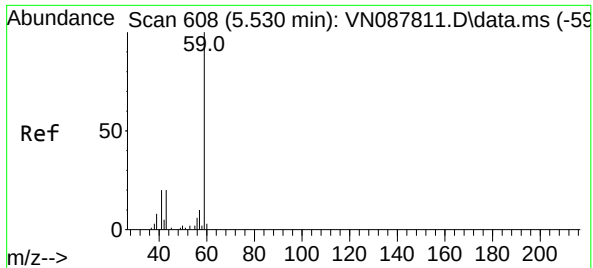
Ion Ratio Lower Upper

96 100

61 147.1 118.2 177.2

98 64.5 51.6 77.4





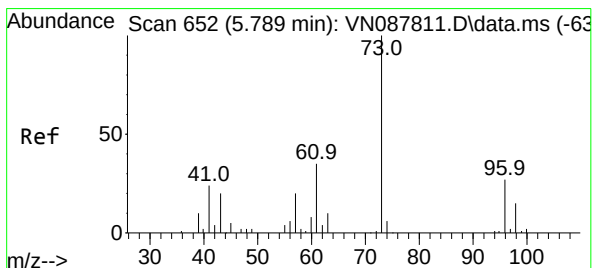
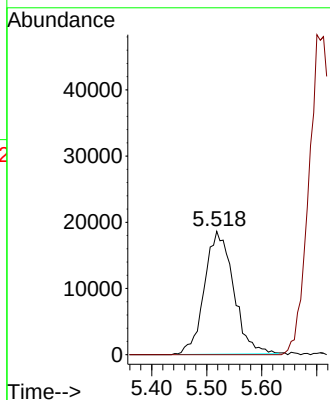
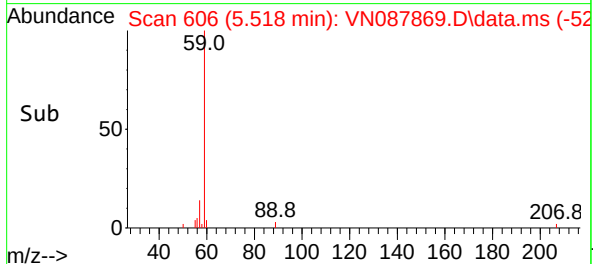
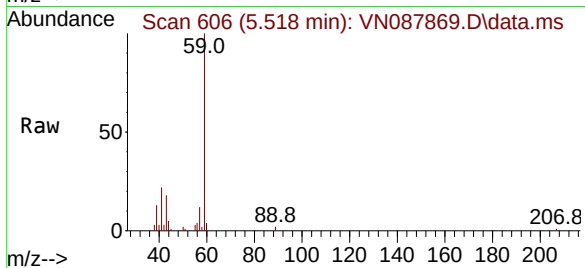
#23  
tert-Butyl Alcohol  
Concen: 92.244 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. -0.012 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 59 Resp: 6811  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

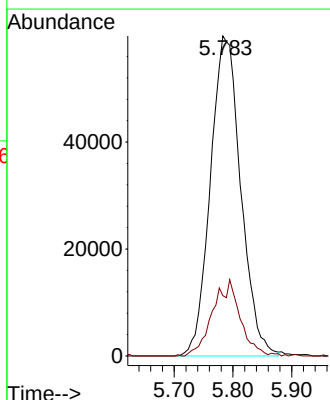
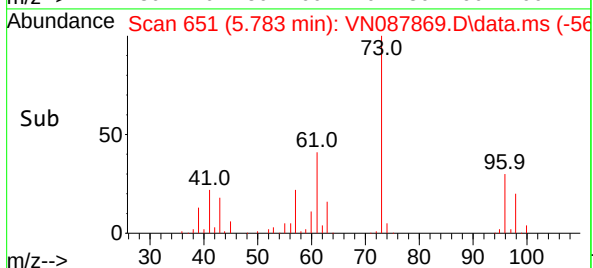
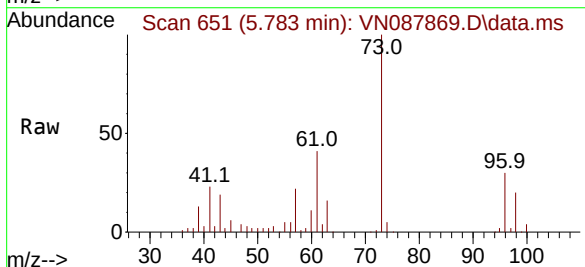
Manual Integrations  
APPROVED

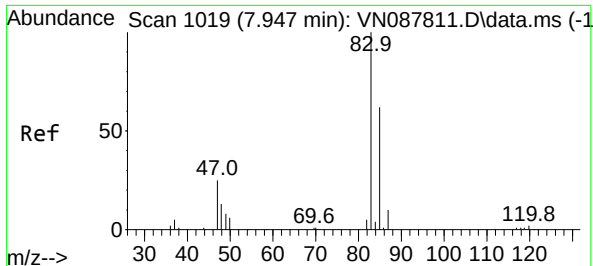
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#24  
Methyl tert-Butyl Ether  
Concen: 19.098 ug/l  
RT: 5.783 min Scan# 651  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 73 Resp: 214645  
Ion Ratio Lower Upper  
73 100  
43 11.7 16.8 25.2#





#25

Chloroform

Concen: 18.683 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 83 Resp: 12663

Ion Ratio Lower Upper

83 100

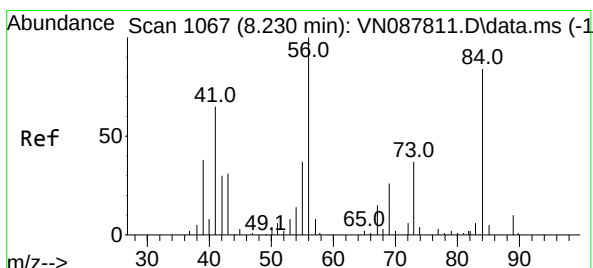
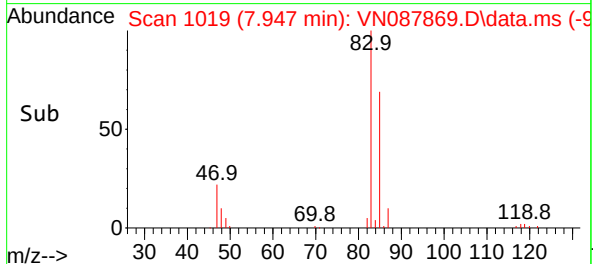
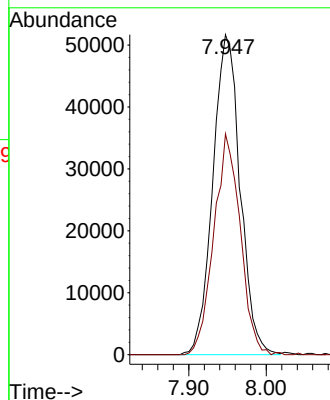
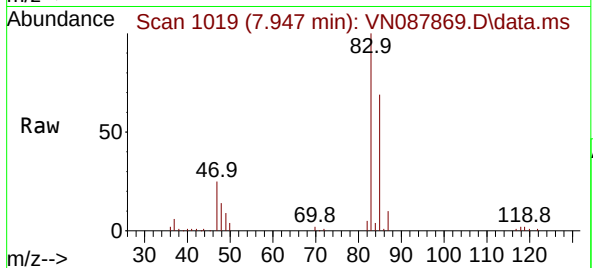
85 69.0 47.7 71.5

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

Cyclohexane

Concen: 18.551 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

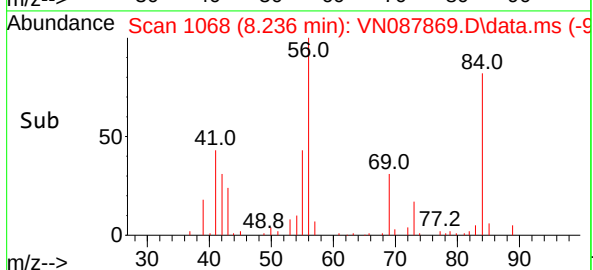
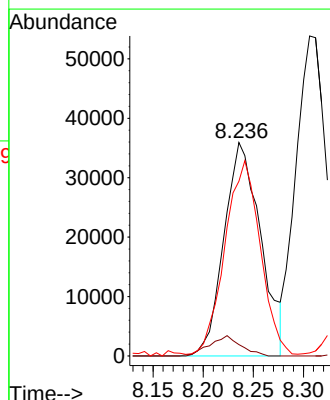
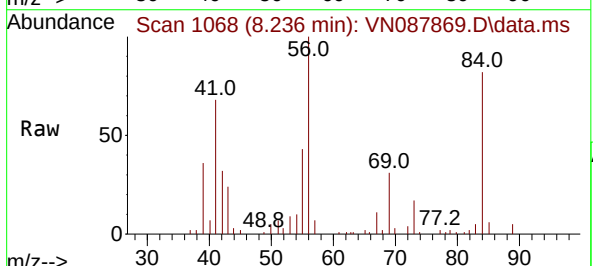
Tgt Ion: 56 Resp: 91476

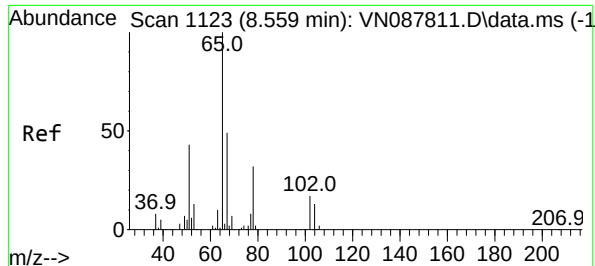
Ion Ratio Lower Upper

56 100

89 8.0 0.0 0.0#

84 88.6 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 29.406 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 65 Resp: 130992

Ion Ratio Lower Upper

65 100

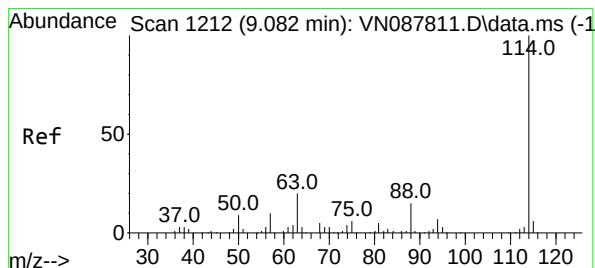
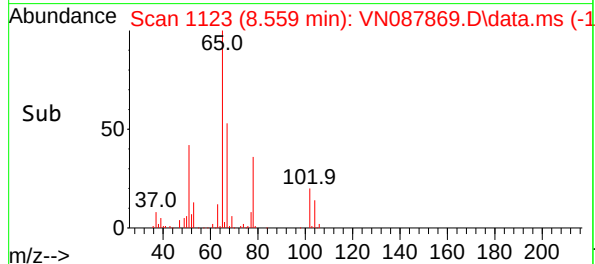
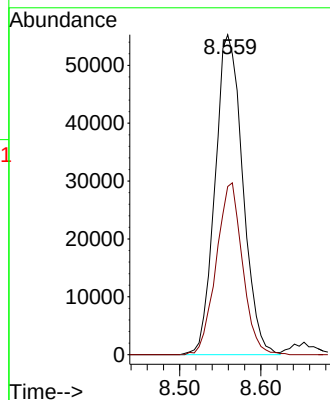
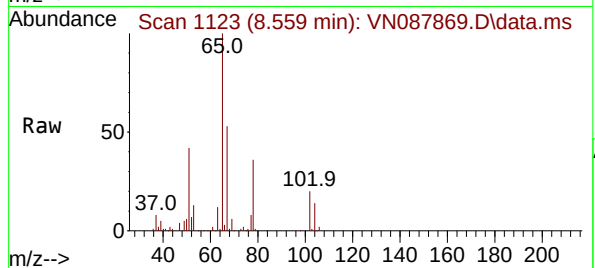
67 51.0 39.6 59.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

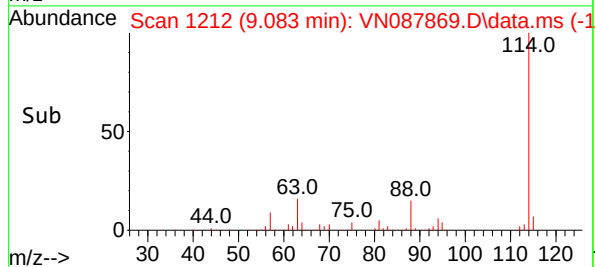
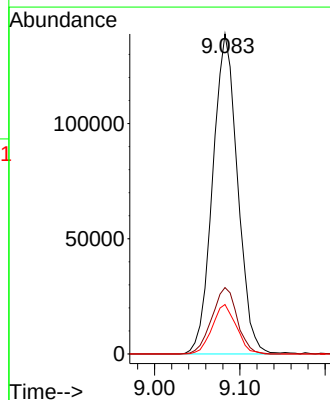
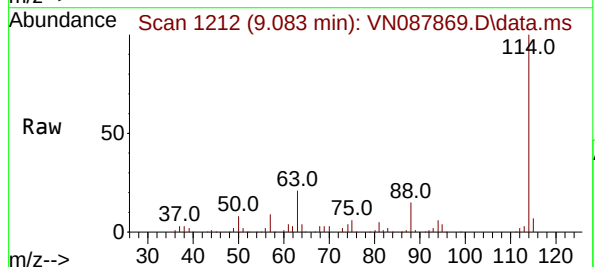
Tgt Ion:114 Resp: 281875

Ion Ratio Lower Upper

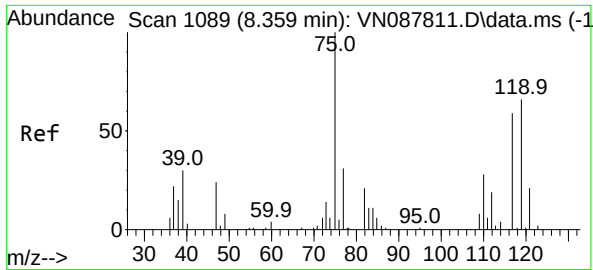
114 100

63 21.1 18.3 27.5

88 15.0 12.4 18.6







#29

1,1-Dichloropropene

Concen: 17.828 ug/l

RT: 8.347 min Scan# 1087

Delta R.T. -0.006 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

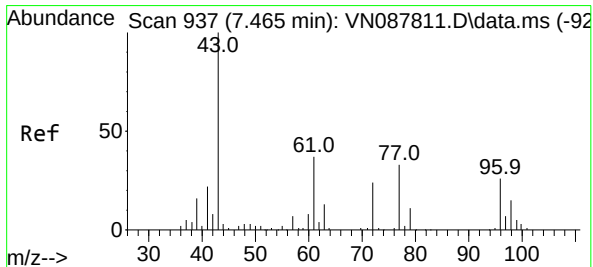
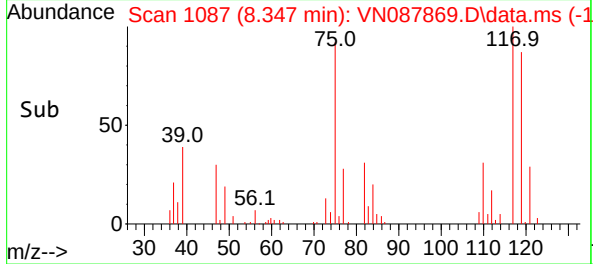
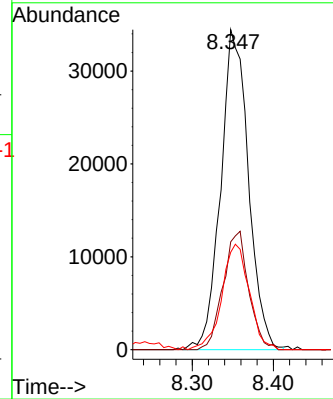
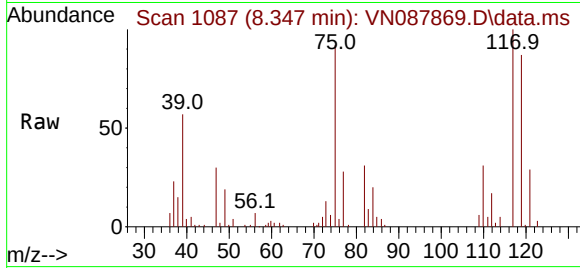
VSTDCCC020

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 8166  |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 33.8    | 0.0 64.4    |
| 77 32.6     | 0.0 62.2    |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

2-Butanone

Concen: 88.150 ug/l

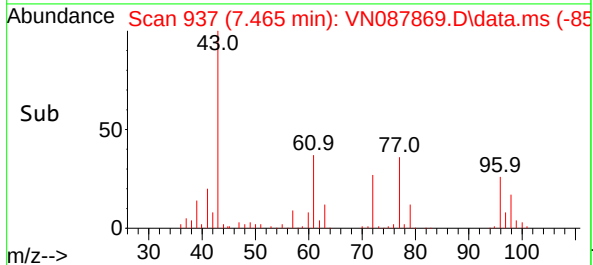
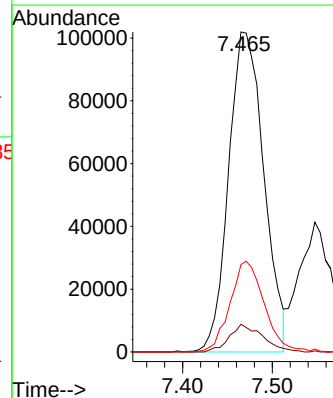
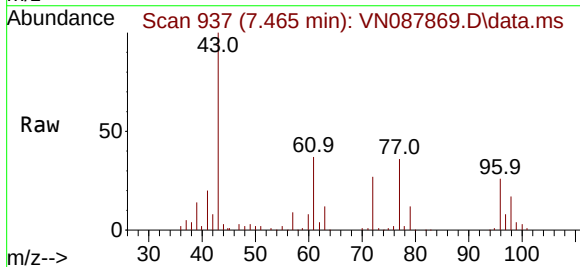
RT: 7.465 min Scan# 937

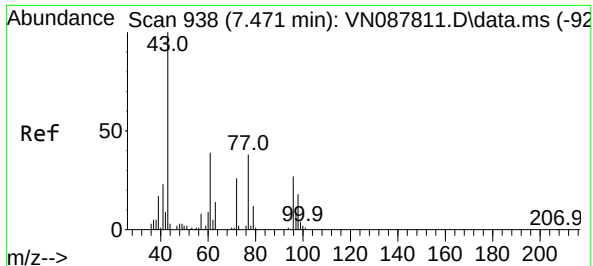
Delta R.T. -0.006 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

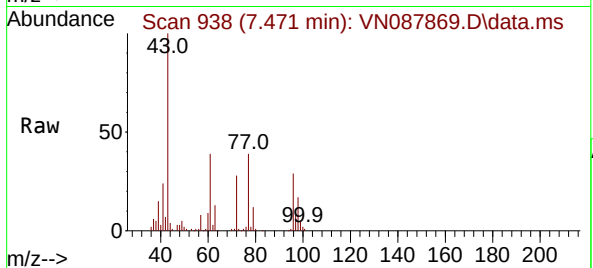
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 278175 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.2      | 6.3 9.5      |
| 72 27.5     | 21.4 32.2    |





#31  
2,2-Dichloropropane  
Concen: 20.675 ug/l  
RT: 7.471 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

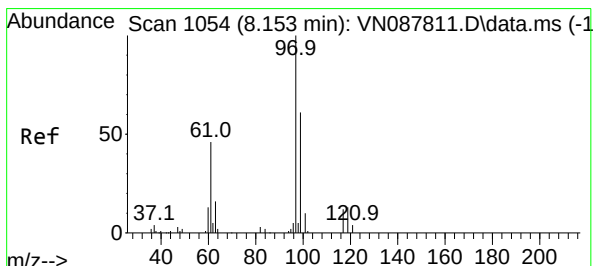
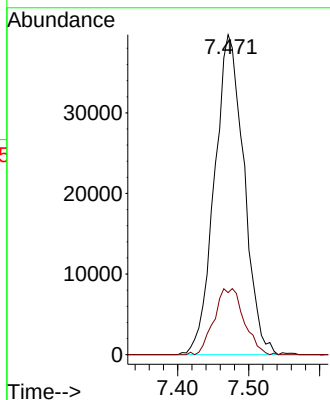
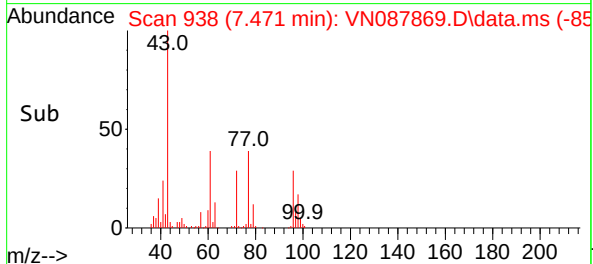
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



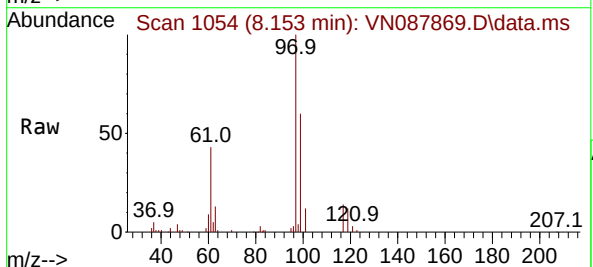
Tgt Ion: 77 Resp: 114169  
Ion Ratio Lower Upper  
77 100  
97 10.8 17.1 25.7

Manual Integrations  
APPROVED

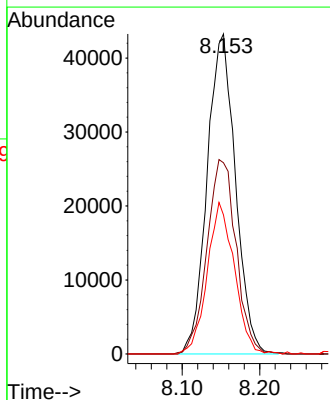
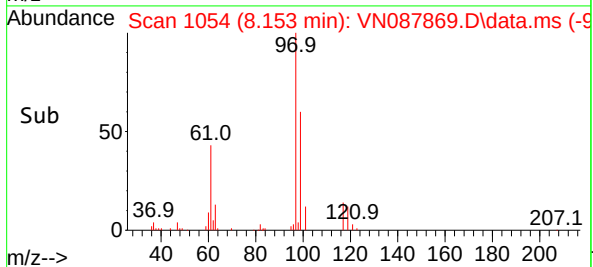
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

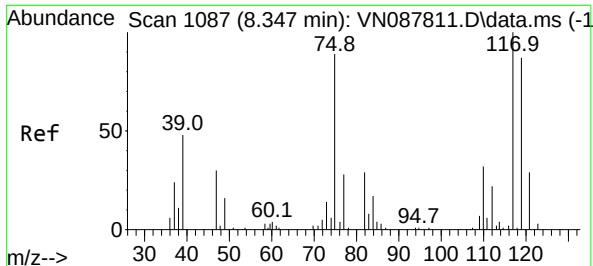


#32  
1,1,1-Trichloroethane  
Concen: 18.918 ug/l  
RT: 8.153 min Scan# 1054  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion: 97 Resp: 109869  
Ion Ratio Lower Upper  
97 100  
99 62.3 52.2 78.4  
61 45.2 37.9 56.9





#33

Carbon Tetrachloride

Concen: 18.801 ug/l

RT: 8.341 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion:117 Resp: 9104

Ion Ratio Lower Upper

117 100

119 84.7 77.3 115.9

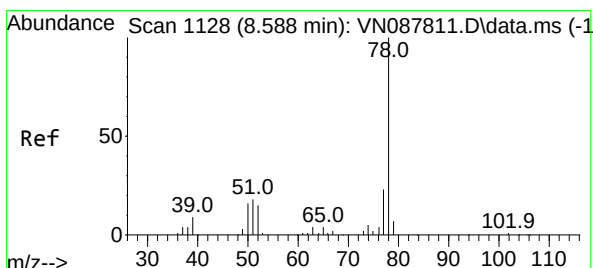
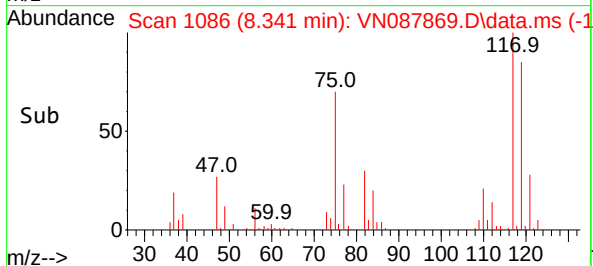
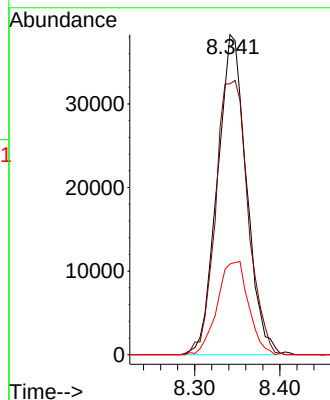
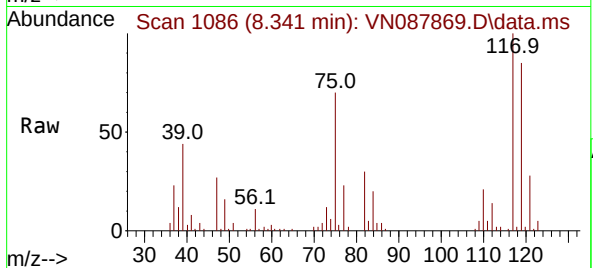
121 28.4 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

Benzene

Concen: 17.628 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

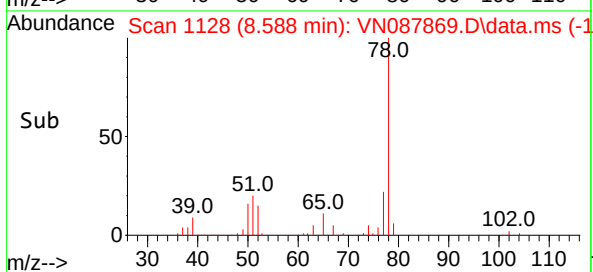
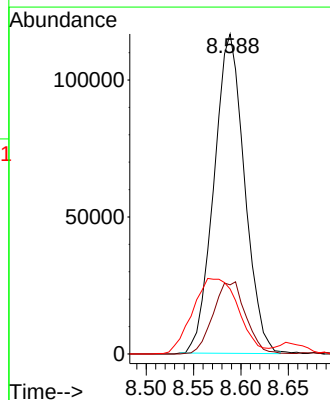
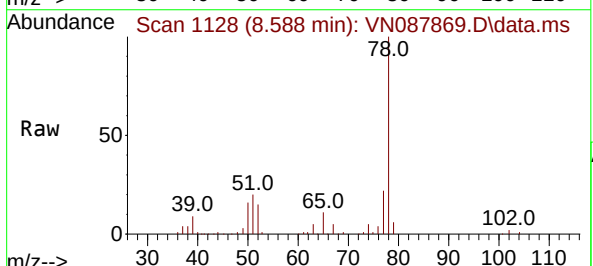
Tgt Ion: 78 Resp: 260993

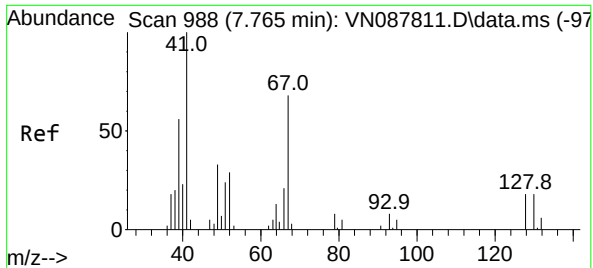
Ion Ratio Lower Upper

78 100

77 21.7 20.3 30.5

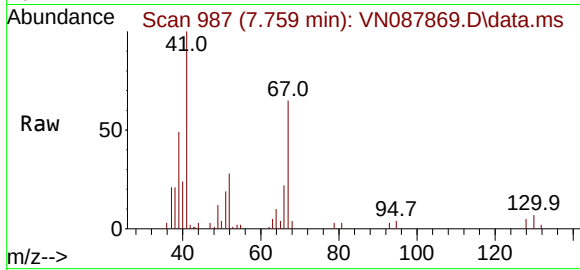
51 17.7 18.0 27.0#





#35  
Methacrylonitrile  
Concen: 17.244 ug/l  
RT: 7.759 min Scan# 987  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

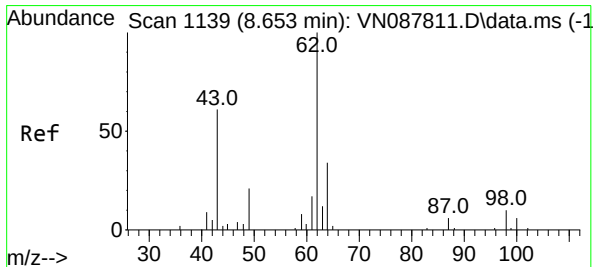
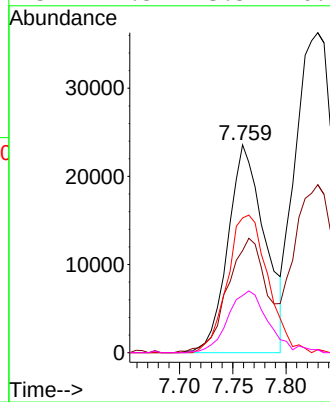
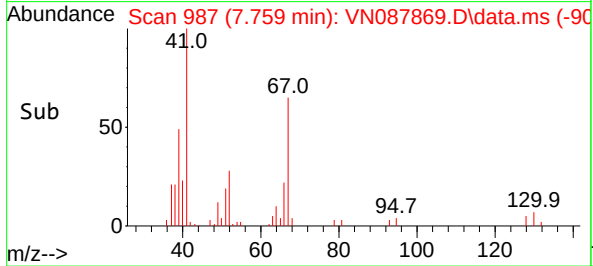
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



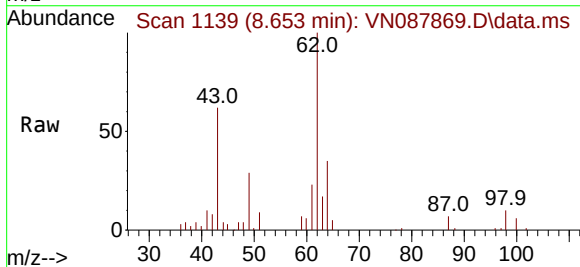
Tgt Ion: 41 Resp: 56919  
Ion Ratio Lower Upper  
41 100  
39 48.3 27.1 81.2  
67 64.8 32.1 96.5  
52 27.5 13.5 40.4

Manual Integrations  
APPROVED

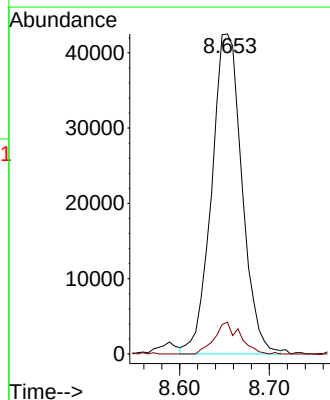
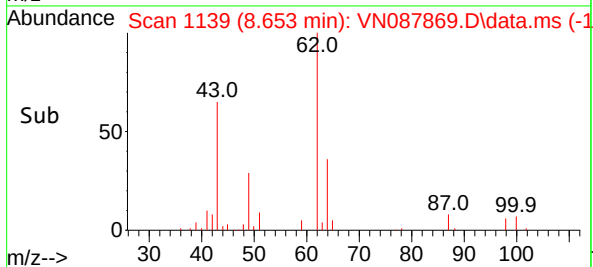
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

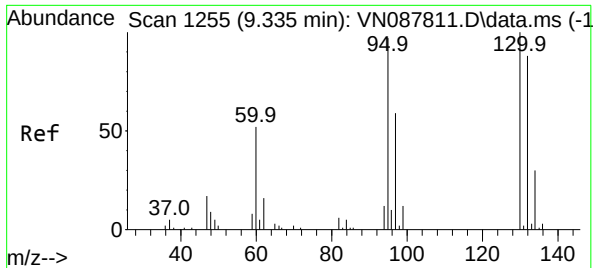


#36  
1,2-Dichloroethane  
Concen: 17.869 ug/l  
RT: 8.653 min Scan# 1139  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



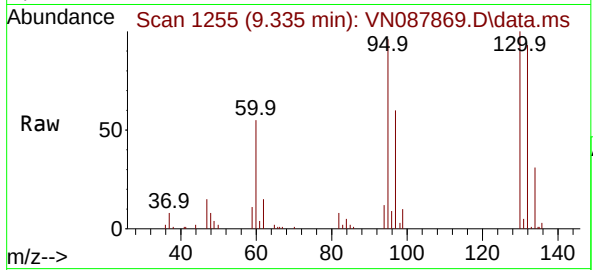
Tgt Ion: 62 Resp: 99931  
Ion Ratio Lower Upper  
62 100  
98 8.4 7.2 10.8





#37  
Trichloroethene  
Concen: 19.090 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

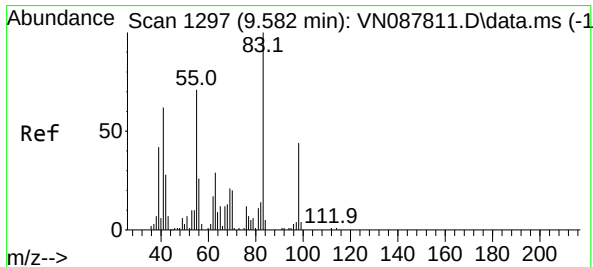
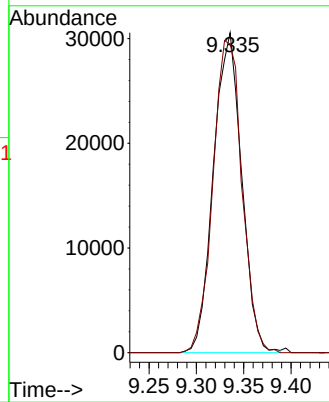
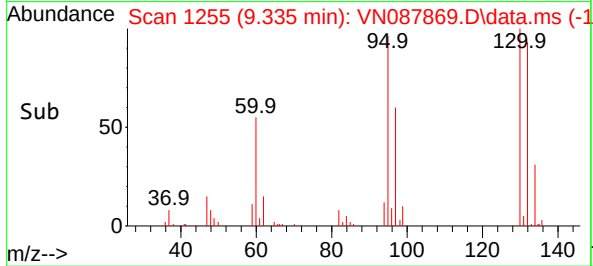
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



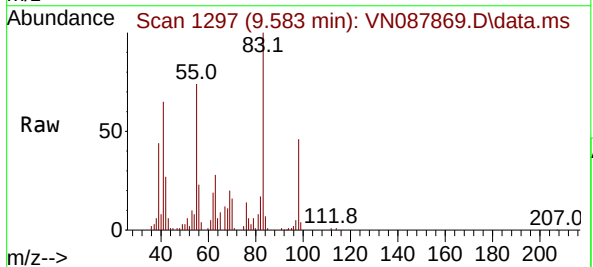
Tgt Ion:130 Resp: 63179  
Ion Ratio Lower Upper  
130 100  
95 96.4 82.7 124.1

Manual Integrations  
APPROVED

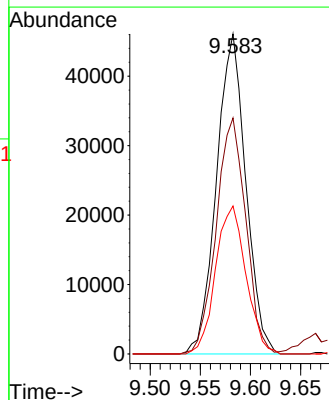
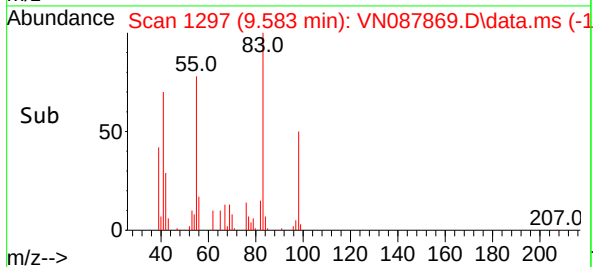
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

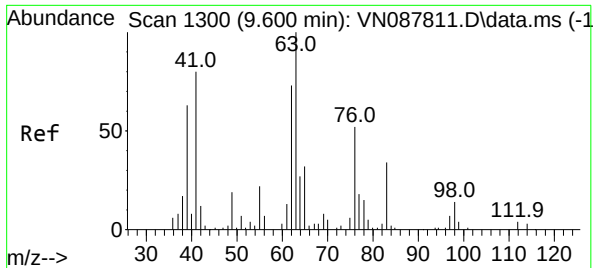


#38  
Methylcyclohexane  
Concen: 18.550 ug/l  
RT: 9.583 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion: 83 Resp: 93569  
Ion Ratio Lower Upper  
83 100  
55 74.3 40.4 121.1  
98 47.9 24.0 72.0





#39

1,2-Dichloropropane

Concen: 17.494 ug/l

RT: 9.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 66330

Ion Ratio Lower Upper

63 100

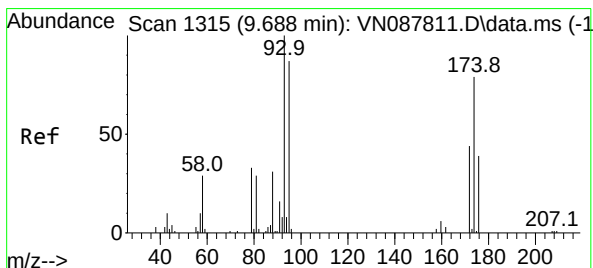
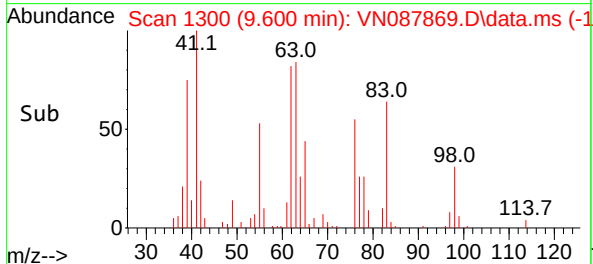
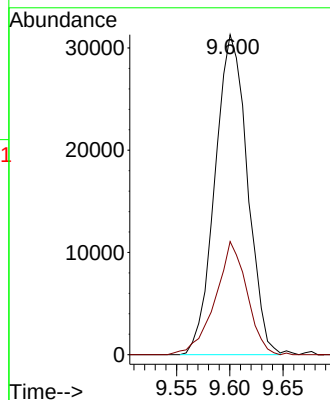
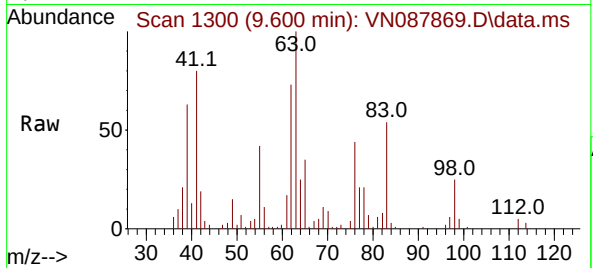
65 35.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Dibromomethane

Concen: 17.772 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

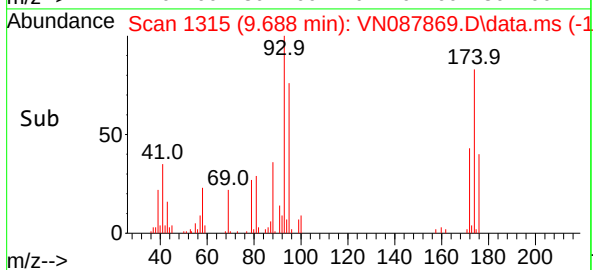
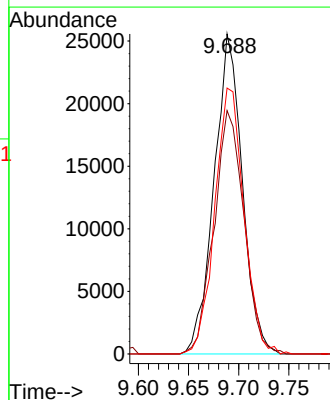
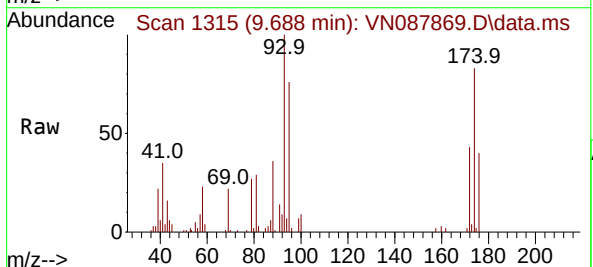
Tgt Ion: 93 Resp: 50151

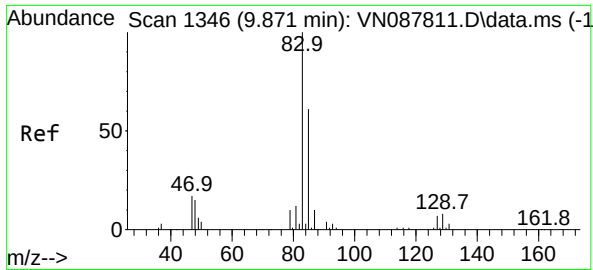
Ion Ratio Lower Upper

93 100

95 80.6 0.0 168.4

174 85.7 0.0 162.8





#41

Bromodichloromethane

Concen: 17.689 ug/l

RT: 9.871 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 83 Resp: 102024

Ion Ratio Lower Upper

83 100

85 64.7 47.3 70.9

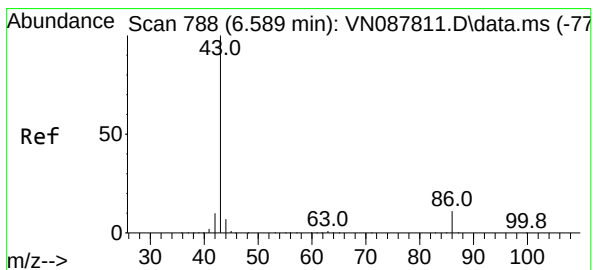
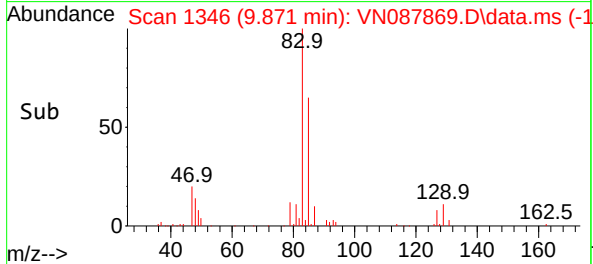
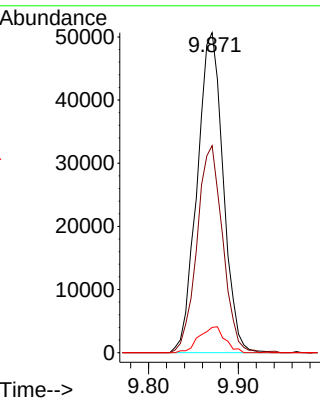
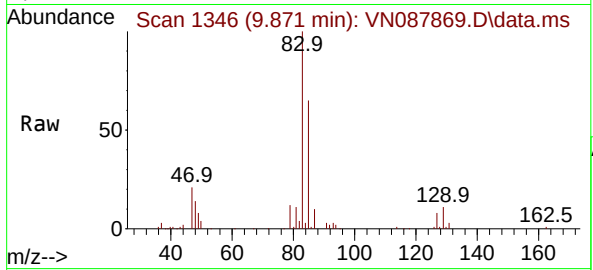
127 7.9 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#42

Vinyl Acetate

Concen: 82.808 ug/l

RT: 6.589 min Scan# 788

Delta R.T. -0.000 min

Lab File: VN087869.D

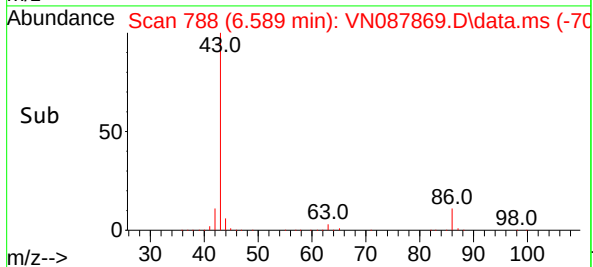
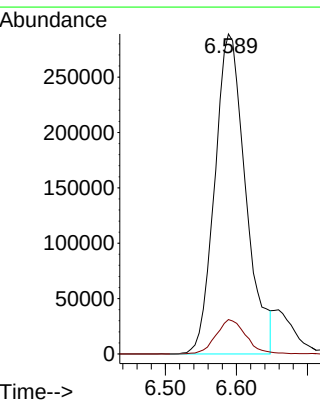
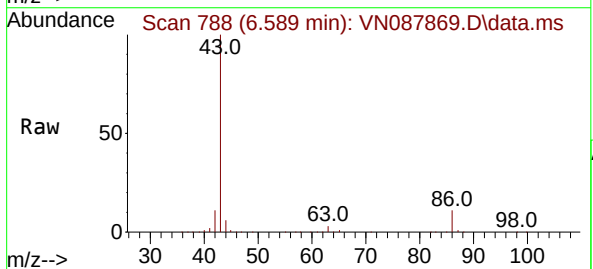
Acq: 17 Sep 2025 09:42

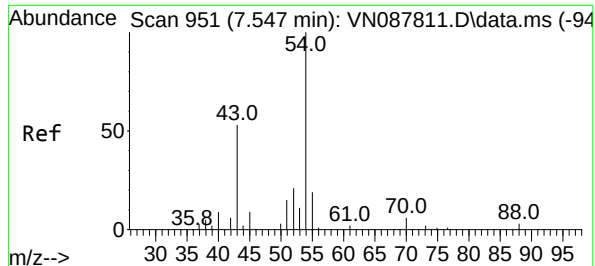
Tgt Ion: 43 Resp: 873112

Ion Ratio Lower Upper

43 100

86 10.4 7.7 11.5





#43

Ethyl Acetate

Concen: 17.221 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 111034

Ion Ratio Lower Upper

43 100

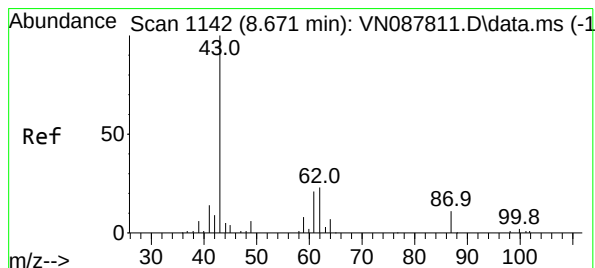
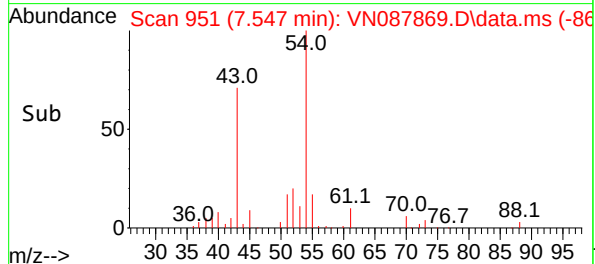
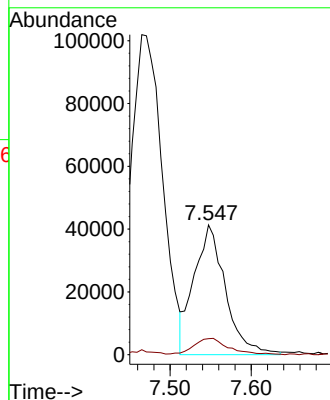
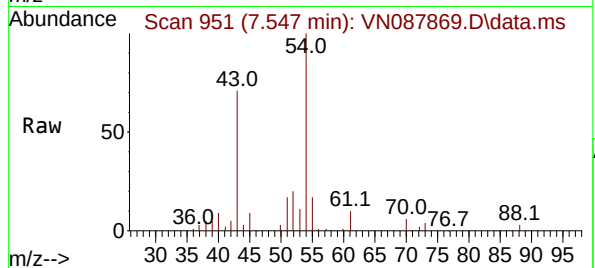
45 13.6 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Isopropyl Acetate

Concen: 17.138 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087869.D

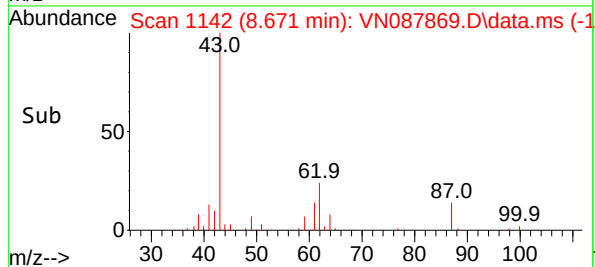
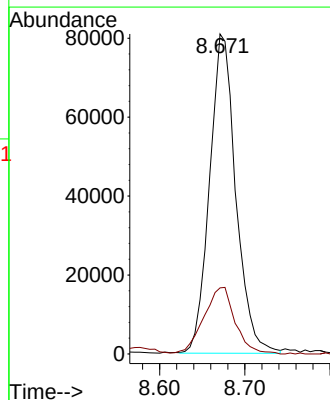
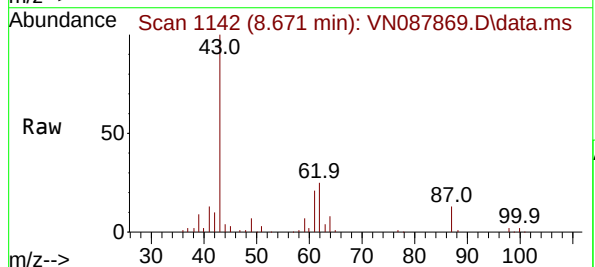
Acq: 17 Sep 2025 09:42

Tgt Ion: 43 Resp: 173222

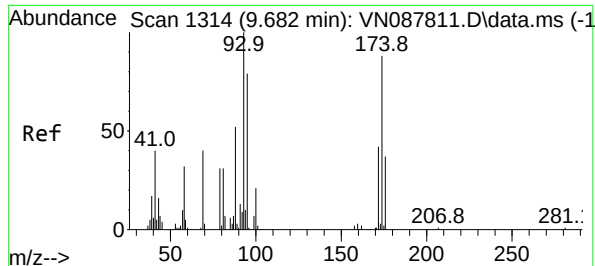
Ion Ratio Lower Upper

43 100

61 24.9 19.5 29.3







#45

1,4-Dioxane

Concen: 354.558 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDC0020

Tgt Ion: 88 Resp: 22600

Ion Ratio Lower Upper

88 100

43 4.5 23.6 35.4

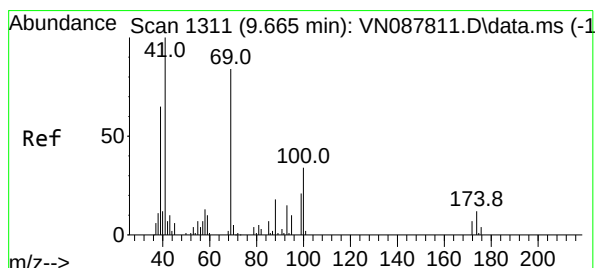
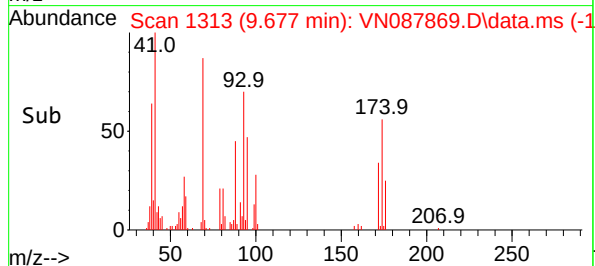
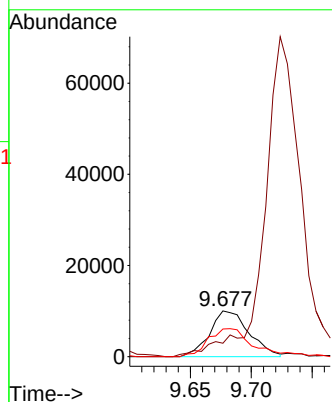
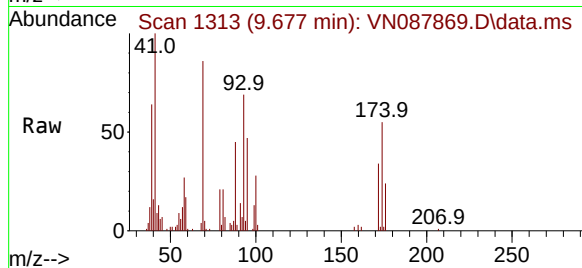
58 65.7 60.5 90.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Methyl methacrylate

Concen: 16.814 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

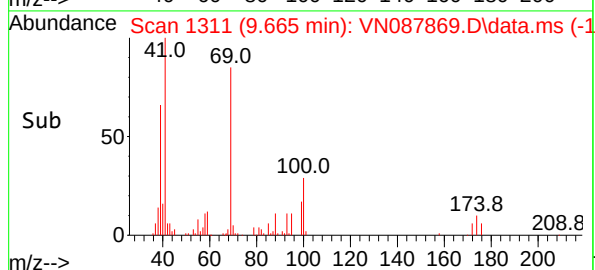
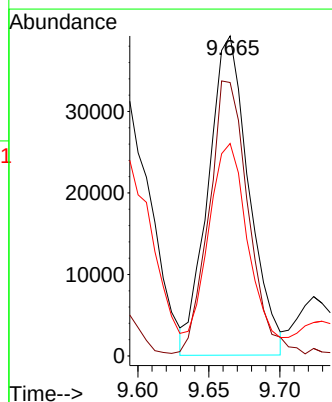
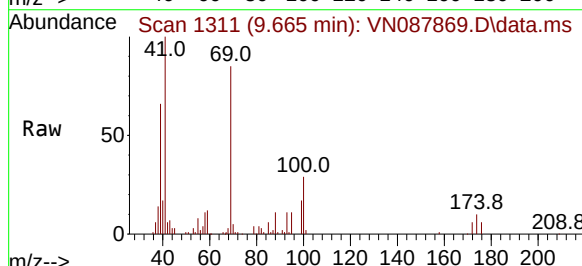
Tgt Ion: 41 Resp: 78333

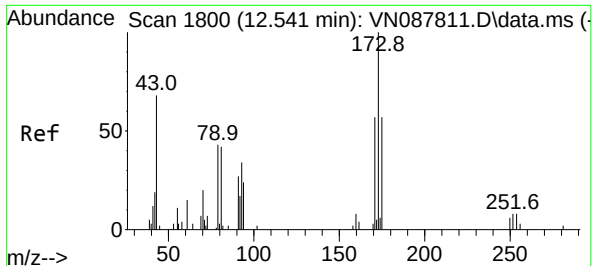
Ion Ratio Lower Upper

41 100

69 90.9 40.3 120.9

39 65.5 31.9 95.9





#47

n-amy1 Acetate

Concen: 15.176 ug/l m

RT: 12.618 min Scan# 1813

Delta R.T. -0.053 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 103650

Ion Ratio Lower Upper

43 100

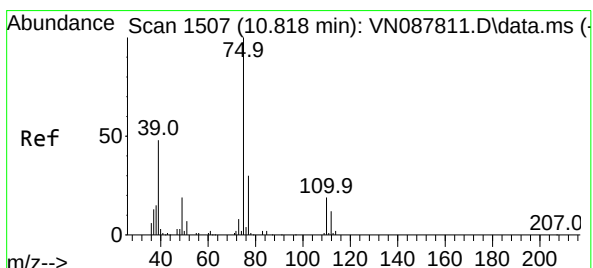
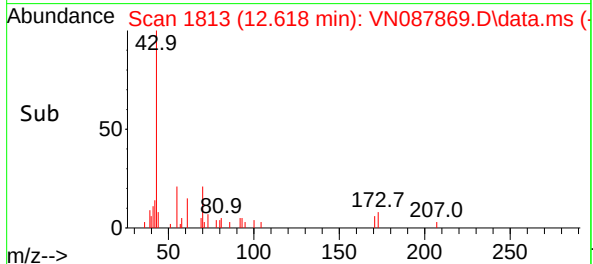
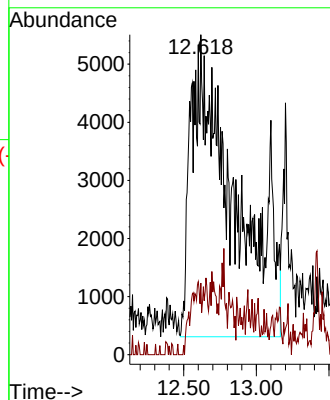
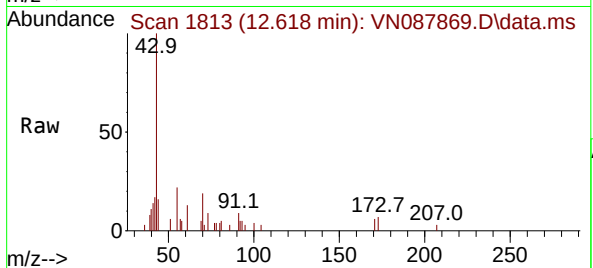
55 0.3 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

t-1,3-Dichloropropene

Concen: 17.051 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087869.D

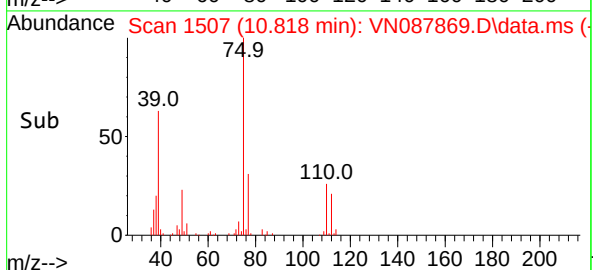
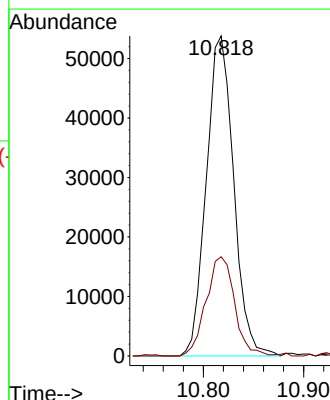
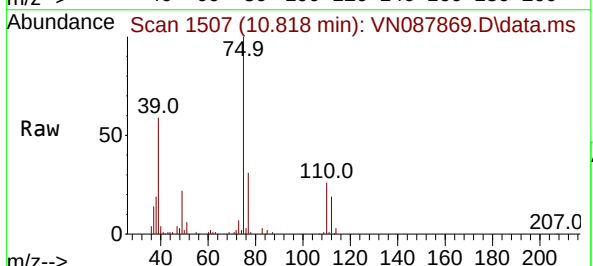
Acq: 17 Sep 2025 09:42

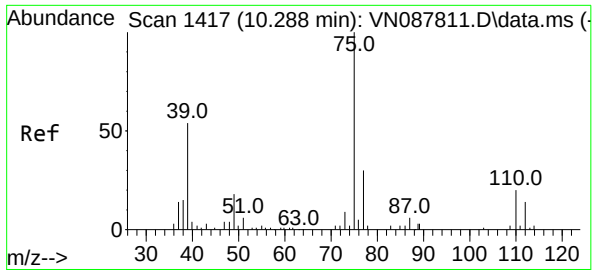
Tgt Ion: 75 Resp: 102141

Ion Ratio Lower Upper

75 100

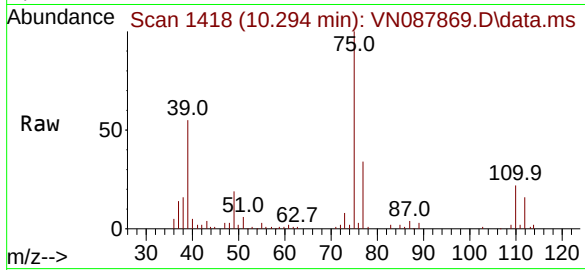
77 31.0 24.7 37.1





#49  
cis-1,3-Dichloropropene  
Concen: 17.874 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

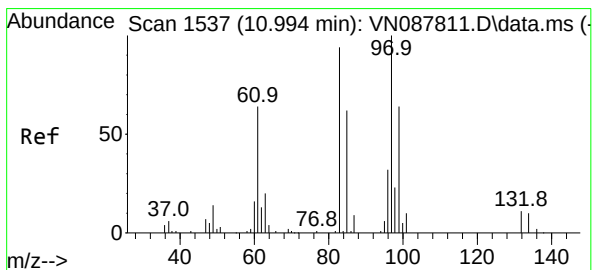
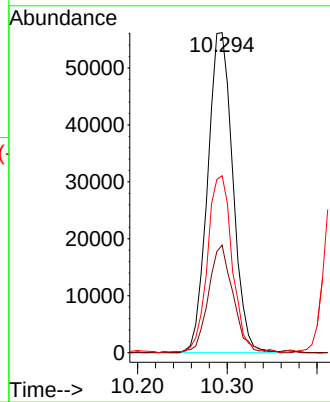
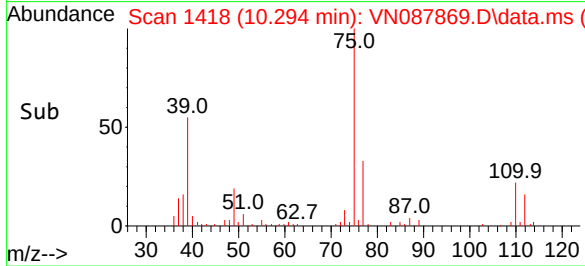
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 75 Resp: 109669  
Ion Ratio Lower Upper  
75 100  
77 33.6 27.8 41.6  
39 55.3 47.6 71.4

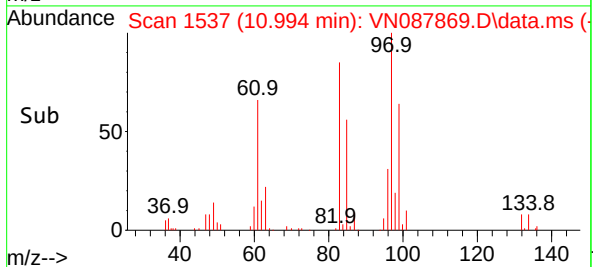
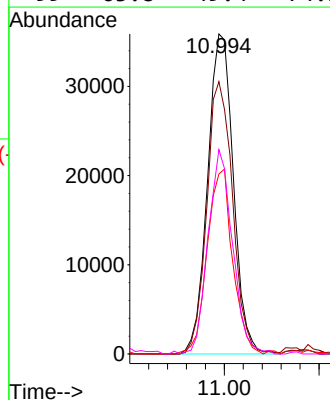
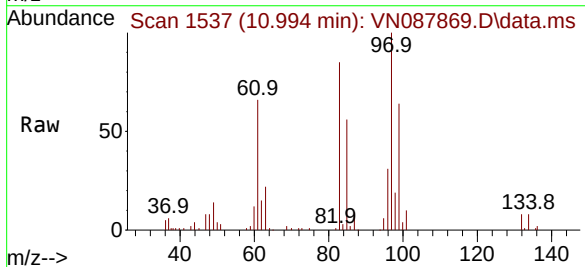
Manual Integrations  
APPROVED

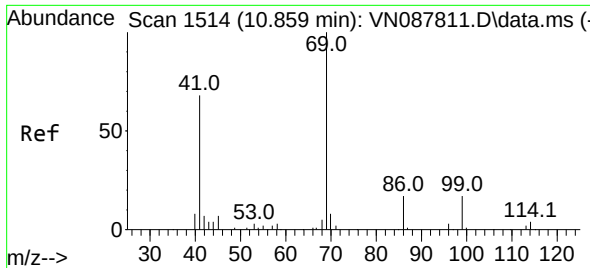
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#50  
1,1,2-Trichloroethane  
Concen: 18.631 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

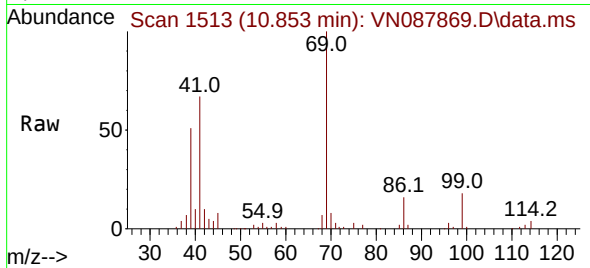
Tgt Ion: 97 Resp: 67907  
Ion Ratio Lower Upper  
97 100  
83 85.1 70.5 105.7  
85 56.3 46.3 69.5  
99 63.8 49.4 74.2





#51  
Ethyl methacrylate  
Concen: 16.987 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

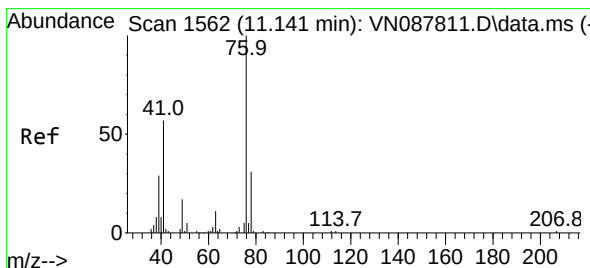
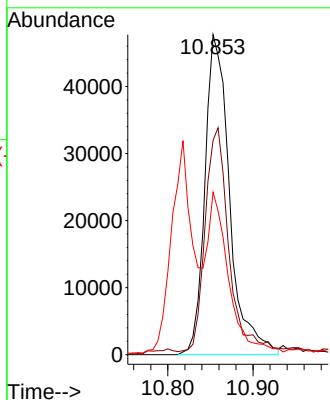
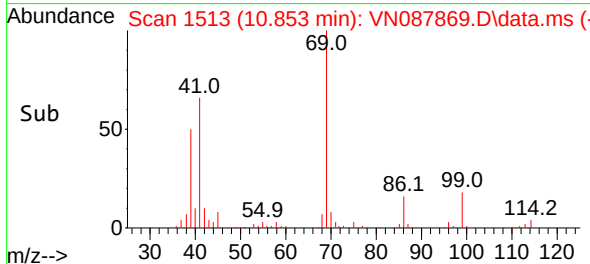
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



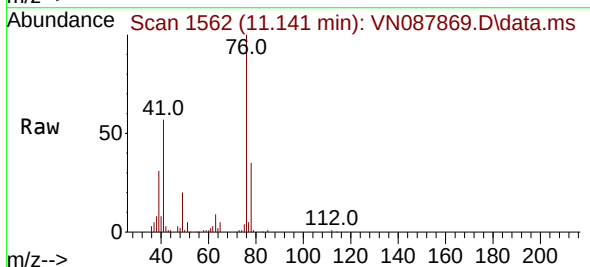
Tgt Ion: 69 Resp: 9635  
Ion Ratio Lower Upper  
69 100  
41 66.1 33.7 101.0  
39 48.8 20.3 60.9

Manual Integrations  
APPROVED

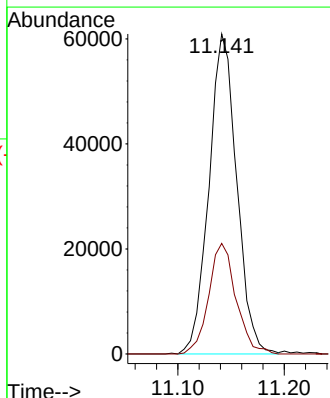
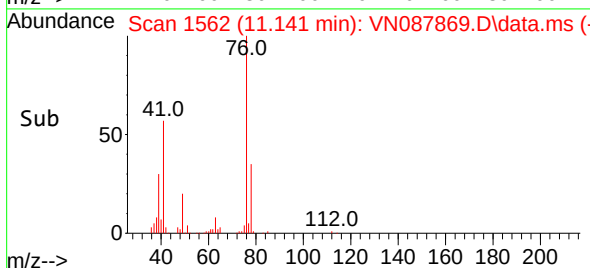
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

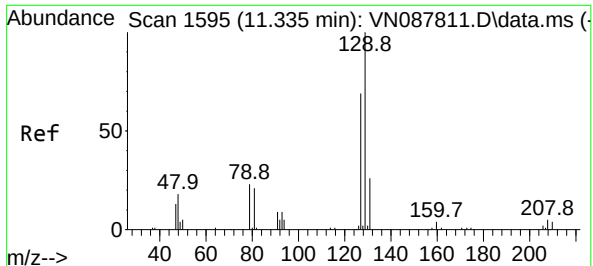


#52  
1,3-Dichloropropane  
Concen: 17.456 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



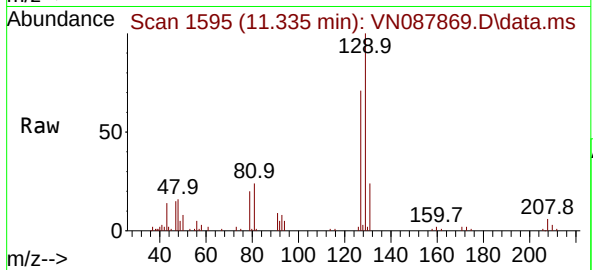
Tgt Ion: 76 Resp: 110479  
Ion Ratio Lower Upper  
76 100  
78 33.6 0.0 65.2





#53  
Dibromochloromethane  
Concen: 18.558 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

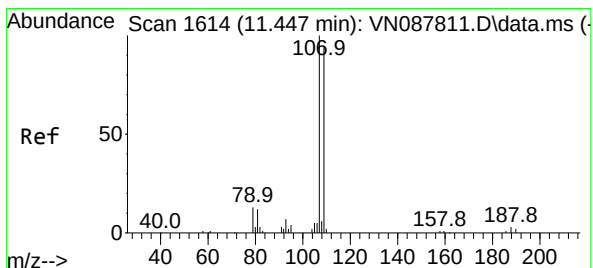
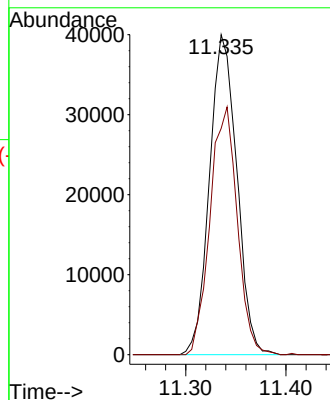
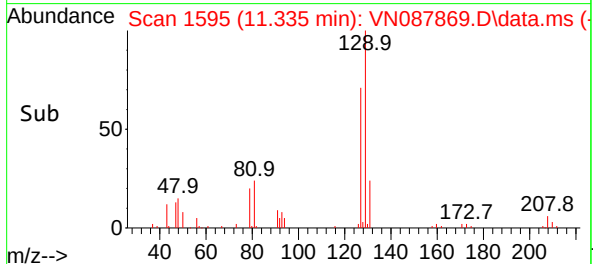
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



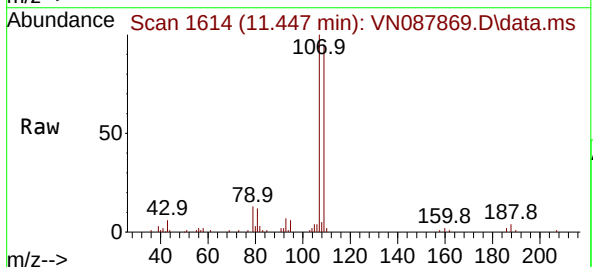
Tgt Ion:129 Resp: 7584  
Ion Ratio Lower Upper  
129 100  
127 77.0 42.6 128.0

Manual Integrations  
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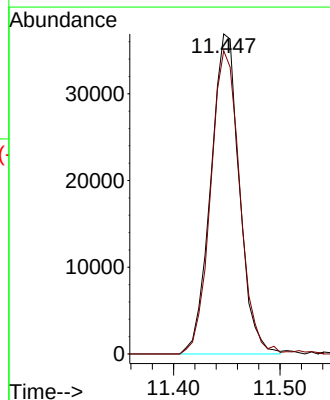
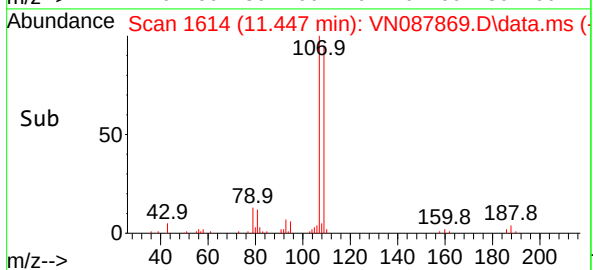
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

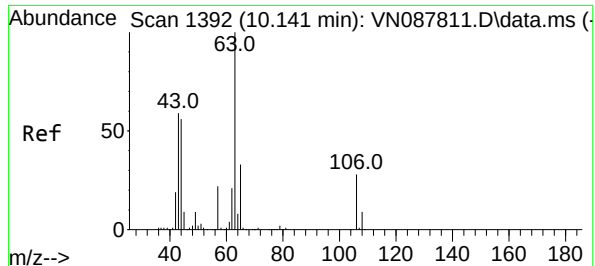


#54  
1,2-Dibromoethane  
Concen: 18.087 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



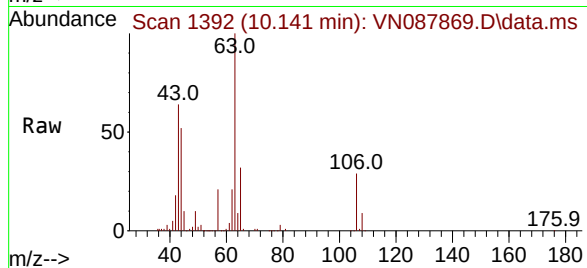
Tgt Ion:107 Resp: 68595  
Ion Ratio Lower Upper  
107 100  
109 96.6 74.6 112.0





#55  
2-Chloroethyl vinyl ether  
Concen: 89.490 ug/l  
RT: 10.141 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

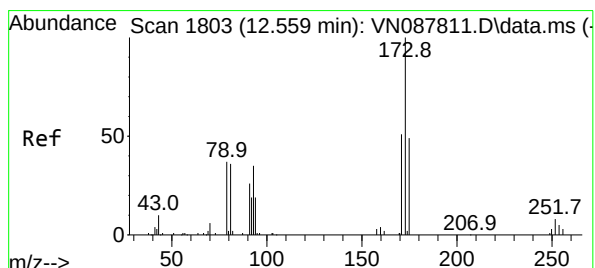
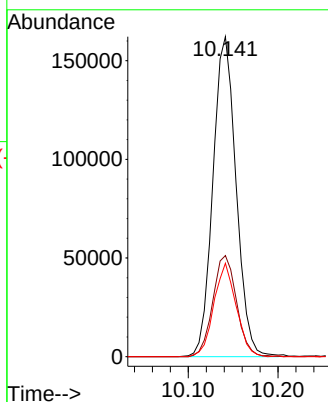
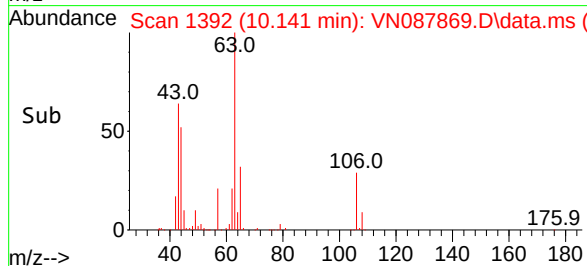
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



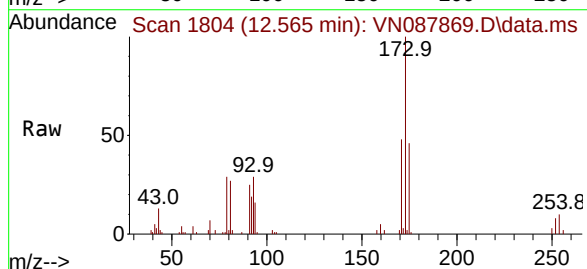
Tgt Ion: 63 Resp: 29084  
Ion Ratio Lower Upper  
63 100  
65 32.4 26.6 40.0  
106 28.2 21.1 31.7

Manual Integrations  
APPROVED

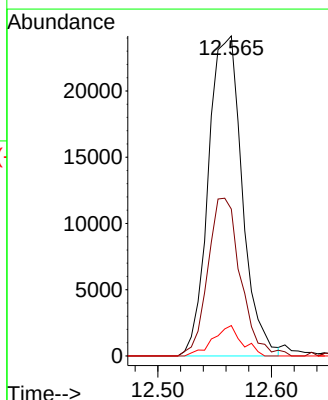
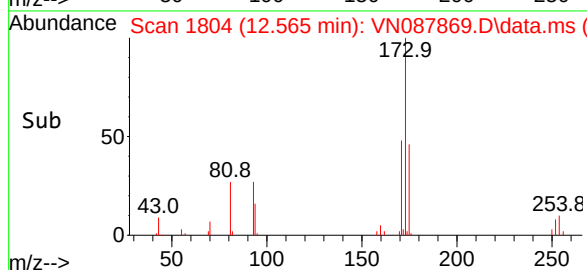
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

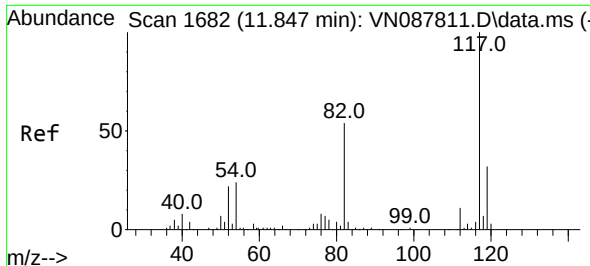


#56  
Bromoform  
Concen: 18.693 ug/l  
RT: 12.565 min Scan# 1804  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion:173 Resp: 49888  
Ion Ratio Lower Upper  
173 100  
175 47.2 39.8 59.6  
254 8.2 6.2 9.4





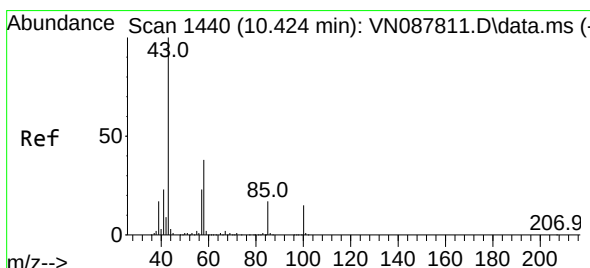
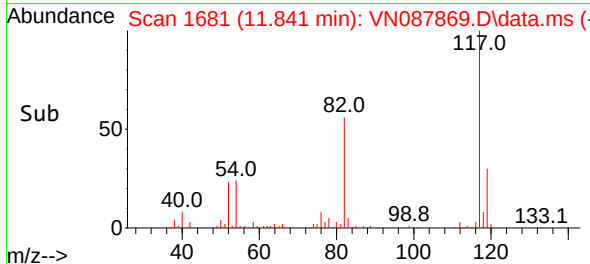
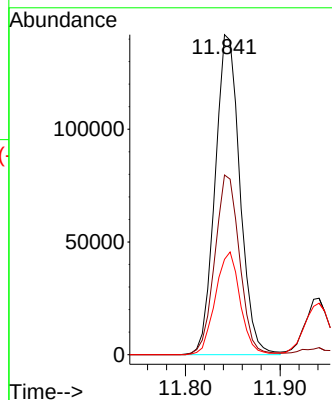
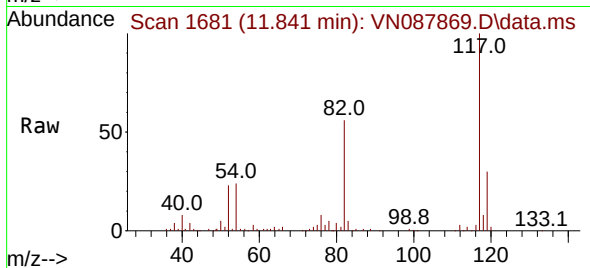
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.841 min Scan# 1184  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 117 Resp: 25893  
Ion Ratio Lower Upper  
117 100  
82 56.0 45.9 68.9  
119 32.1 25.3 37.9

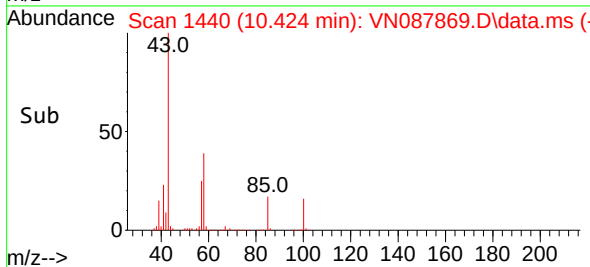
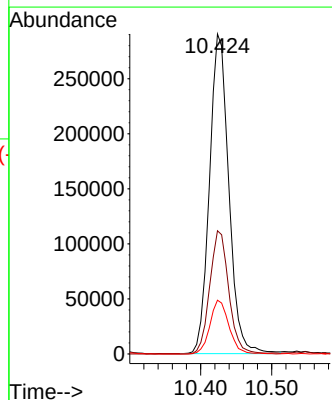
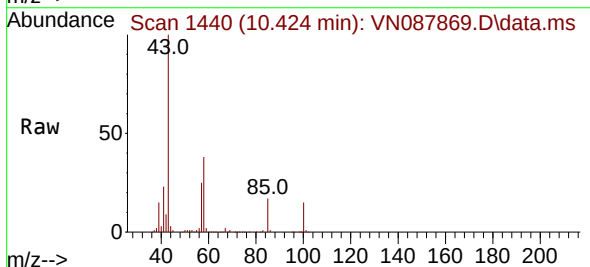
Manual Integrations  
APPROVED

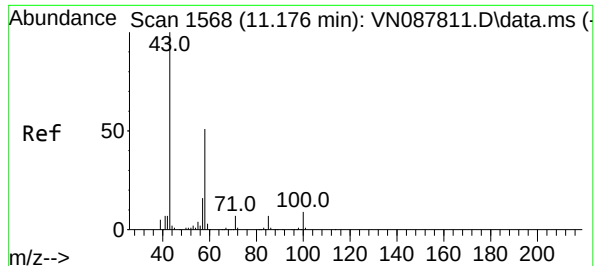
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#58  
4-Methyl-2-Pentanone  
Concen: 89.532 ug/l  
RT: 10.424 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

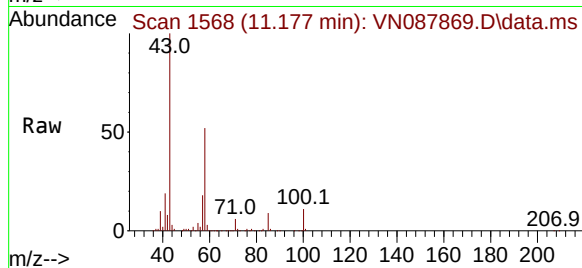
Tgt Ion: 43 Resp: 548165  
Ion Ratio Lower Upper  
43 100  
58 37.8 29.6 44.4  
85 16.6 13.0 19.4





#59  
2-Hexanone  
Concen: 88.377 ug/l  
RT: 11.177 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

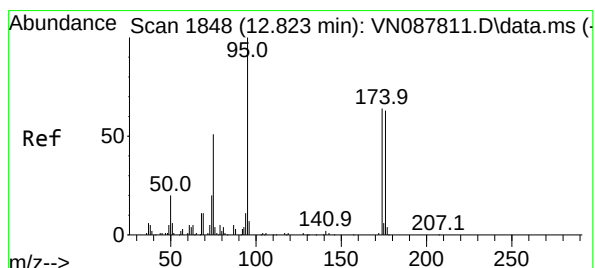
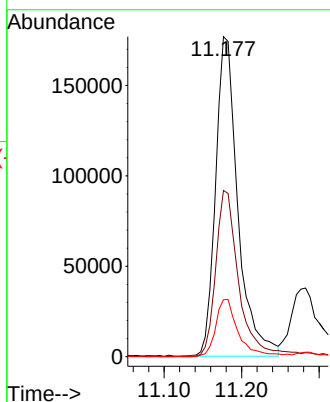
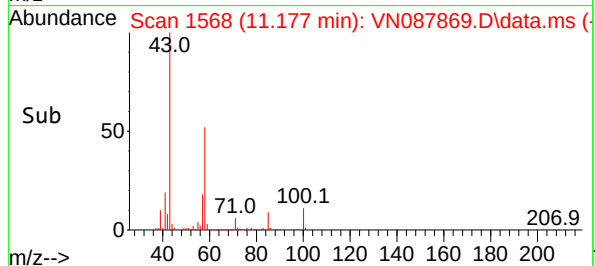
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



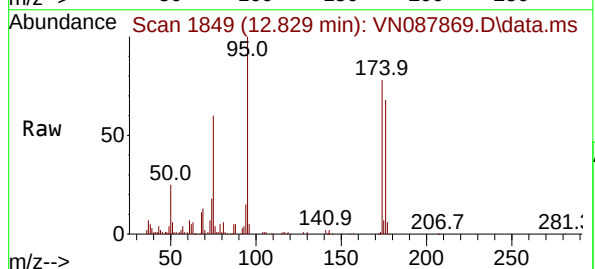
Tgt Ion: 43 Resp: 353570  
Ion Ratio Lower Upper  
43 100  
58 53.8 40.2 60.4  
57 17.8 13.7 20.5

Manual Integrations  
APPROVED

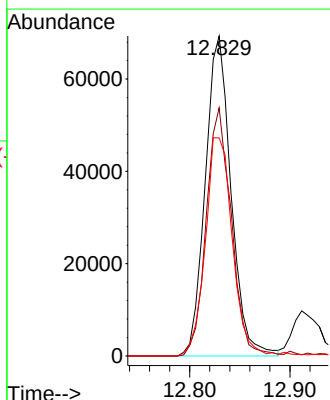
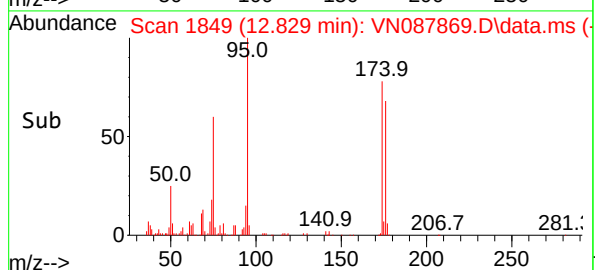
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



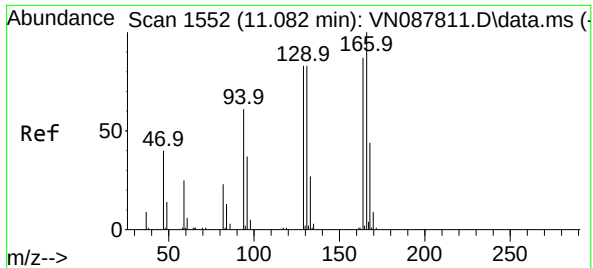
#60  
4-Bromofluorobenzene  
Concen: 29.761 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion: 95 Resp: 123908  
Ion Ratio Lower Upper  
95 100  
174 75.2 55.4 83.0  
176 71.4 51.5 77.3

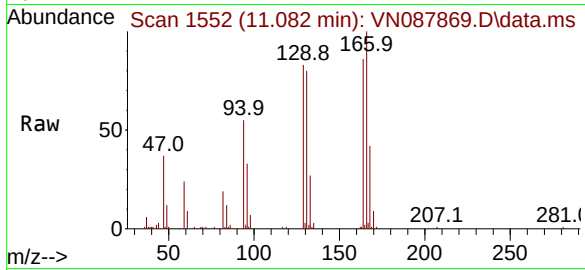






#61  
Tetrachloroethene  
Concen: 19.754 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

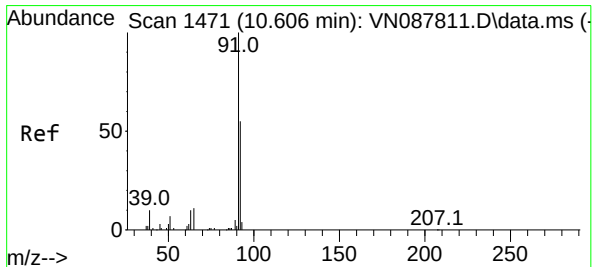
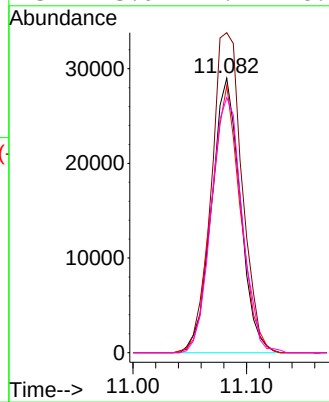
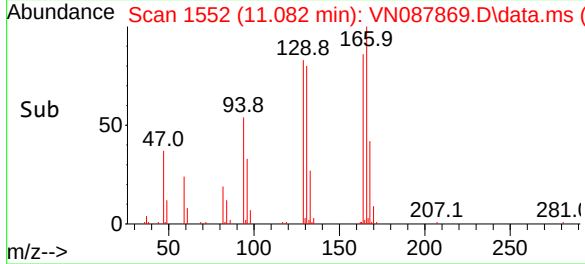
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



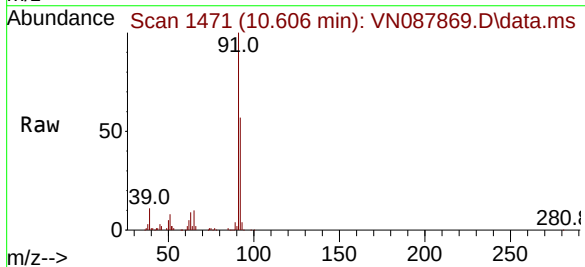
Tgt Ion:164 Resp: 5092  
Ion Ratio Lower Upper  
164 100  
166 116.6 97.3 145.9  
129 97.3 78.6 117.8  
131 93.0 79.2 118.8

Manual Integrations  
APPROVED

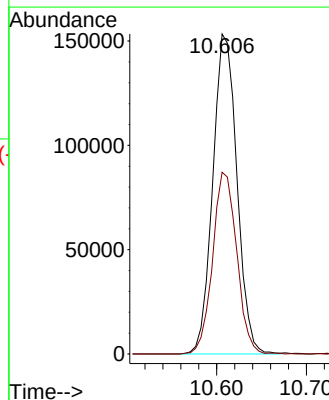
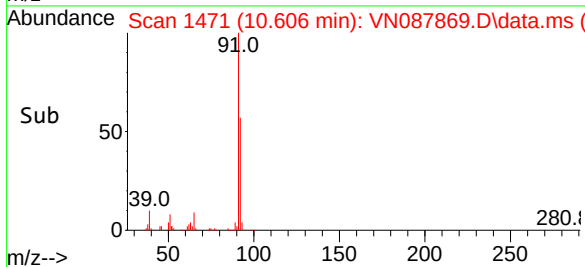
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

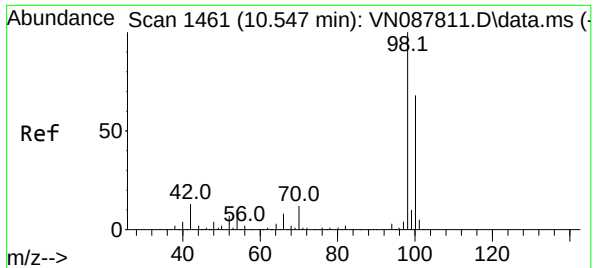


#62  
Toluene  
Concen: 18.296 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



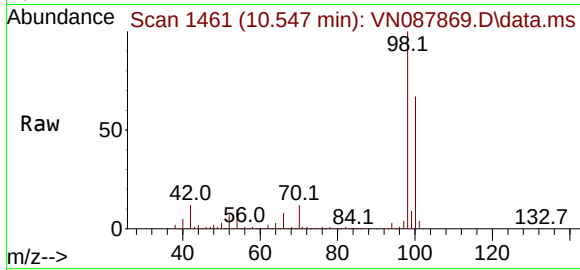
Tgt Ion: 91 Resp: 286562  
Ion Ratio Lower Upper  
91 100  
92 56.6 45.4 68.0





#63  
Toluene-d8  
Concen: 28.879 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

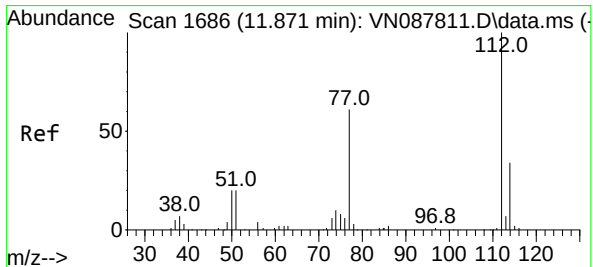
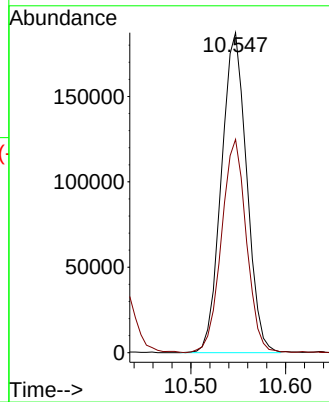
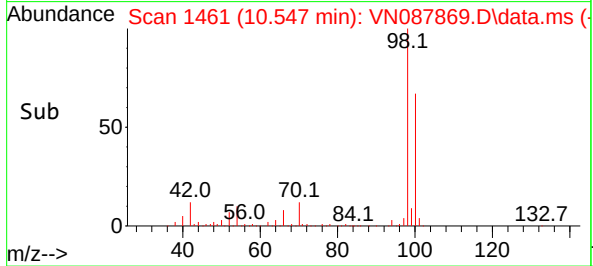
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



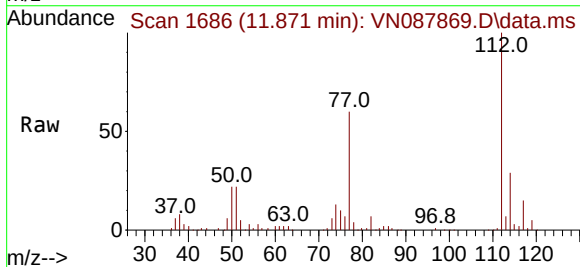
Tgt Ion: 98 Resp: 34775  
Ion Ratio Lower Upper  
98 100  
100 65.6 50.6 76.0

Manual Integrations  
APPROVED

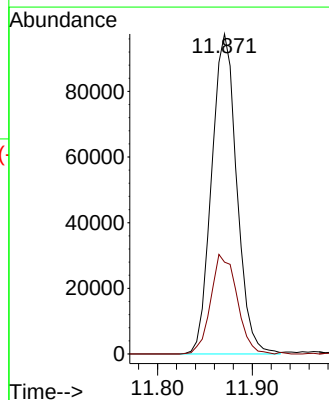
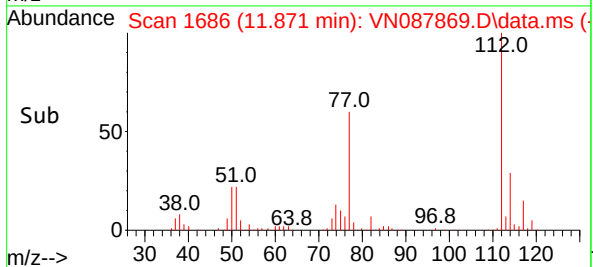
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

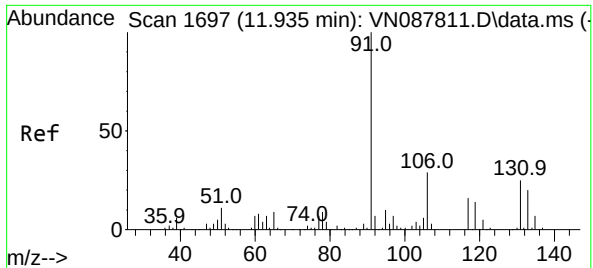


#64  
Chlorobenzene  
Concen: 18.713 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion:112 Resp: 179893  
Ion Ratio Lower Upper  
112 100  
114 28.7 23.5 35.3





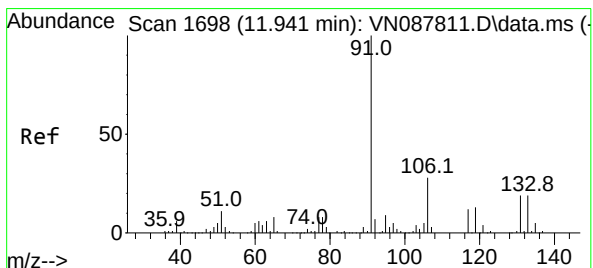
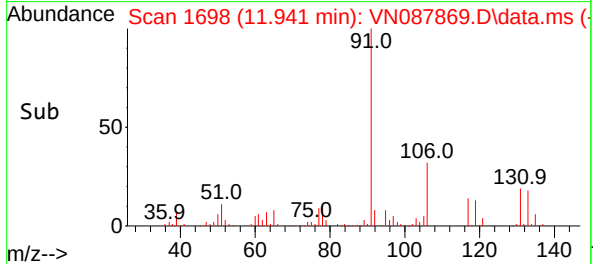
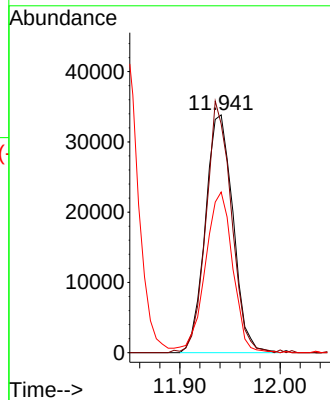
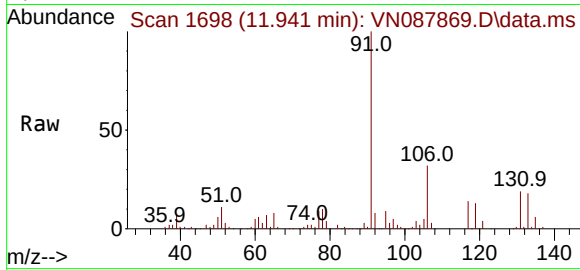
#65  
1,1,1,2-Tetrachloroethane  
Concen: 19.239 ug/l  
RT: 11.941 min Scan# 1697  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:131 Resp: 6511  
Ion Ratio Lower Upper  
131 100  
133 96.8 0.0 195.8  
119 66.9 0.0 139.0

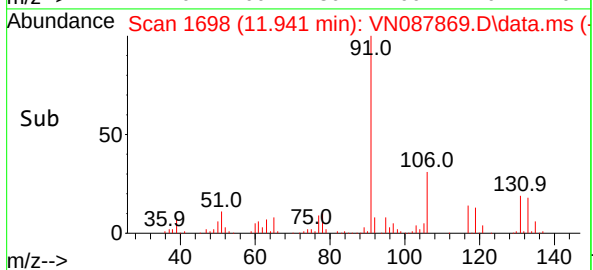
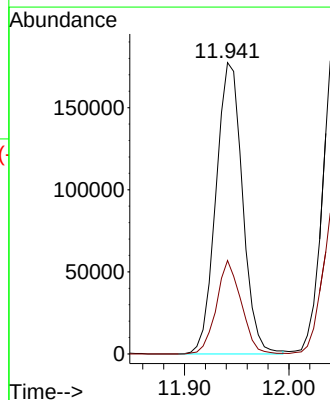
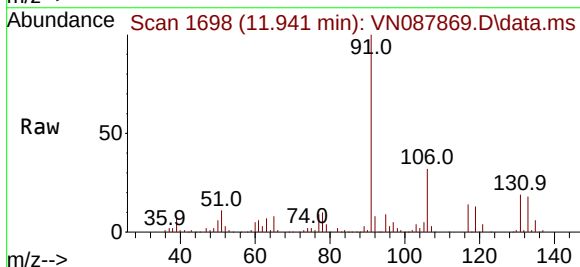
Manual Integrations  
APPROVED

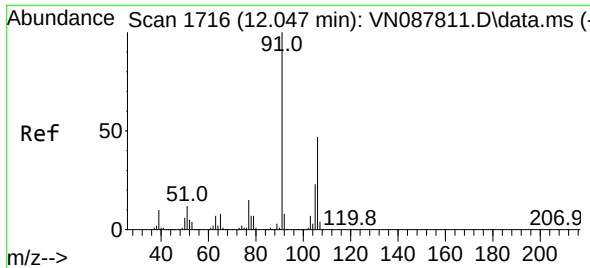
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#66  
Ethyl Benzene  
Concen: 18.600 ug/l m  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

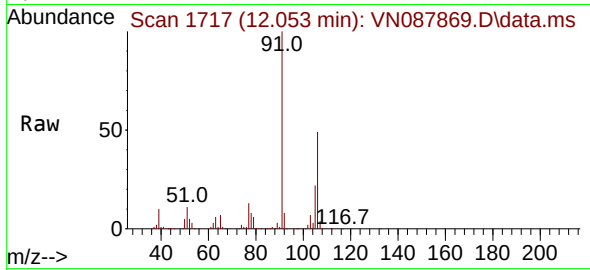
Tgt Ion: 91 Resp: 314293  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.3 31.9#





#67  
m/p-Xylenes  
Concen: 37.305 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

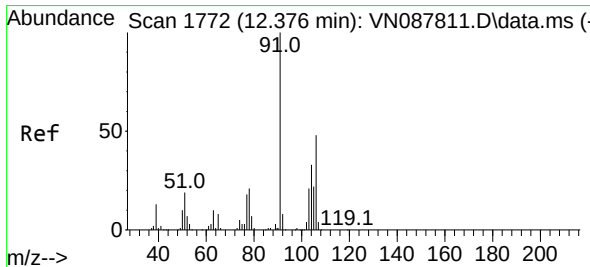
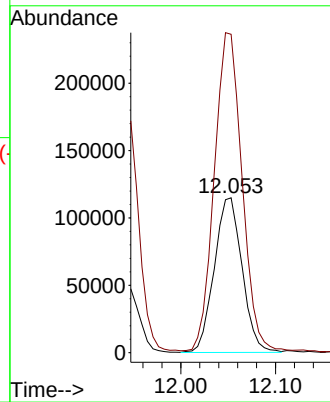
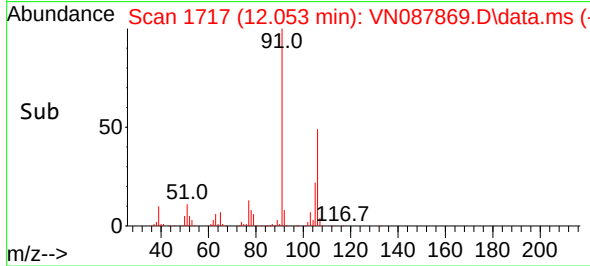
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



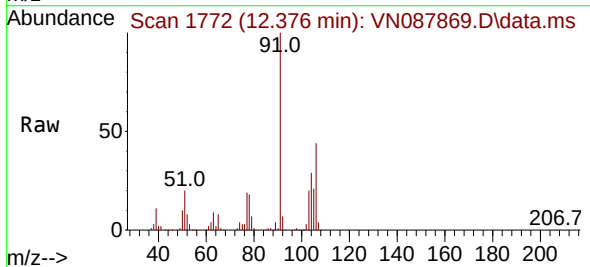
Tgt Ion:106 Resp: 23399  
Ion Ratio Lower Upper  
106 100  
91 207.1 174.3 261.5

Manual Integrations  
APPROVED

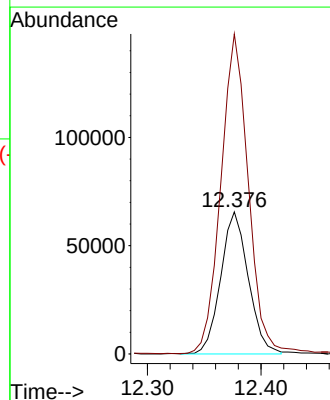
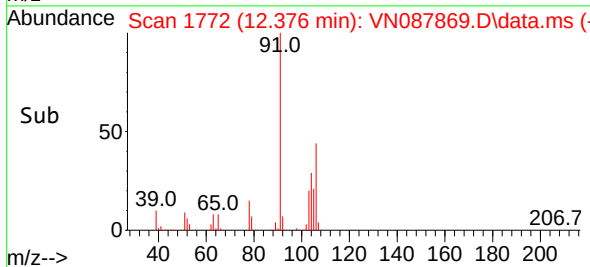
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

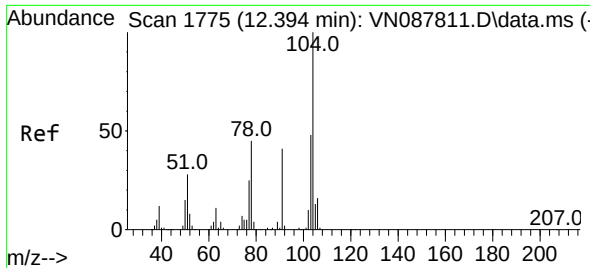


#68  
o-Xylene  
Concen: 18.241 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



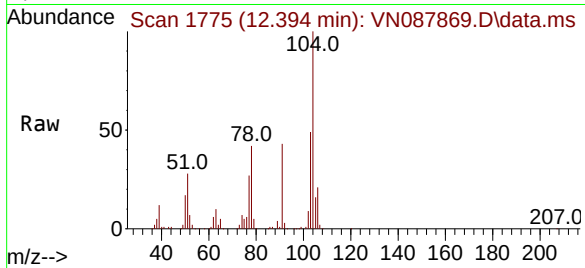
Tgt Ion:106 Resp: 110935  
Ion Ratio Lower Upper  
106 100  
91 223.1 107.7 323.3





#69  
Styrene  
Concen: 18.095 ug/l  
RT: 12.394 min Scan# 1775  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

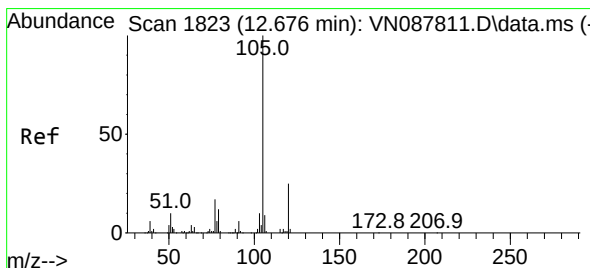
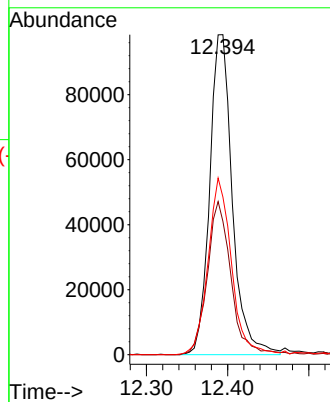
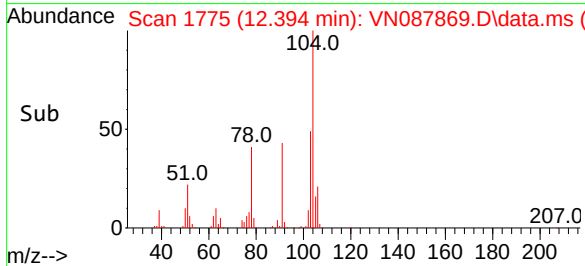
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



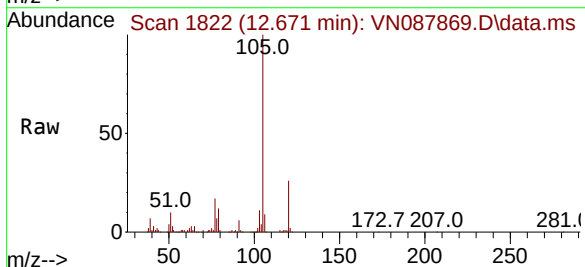
Tgt Ion:104 Resp: 19126  
Ion Ratio Lower Upper  
104 100  
78 49.0 41.0 61.6  
103 57.0 44.6 66.8

Manual Integrations  
APPROVED

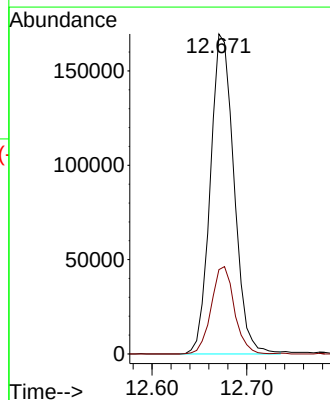
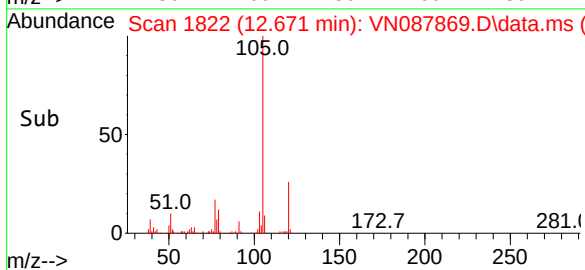
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

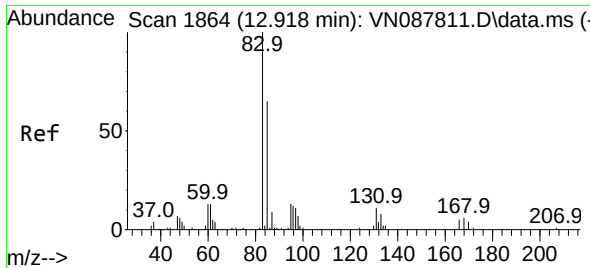


#70  
Isopropylbenzene  
Concen: 19.093 ug/l  
RT: 12.671 min Scan# 1822  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



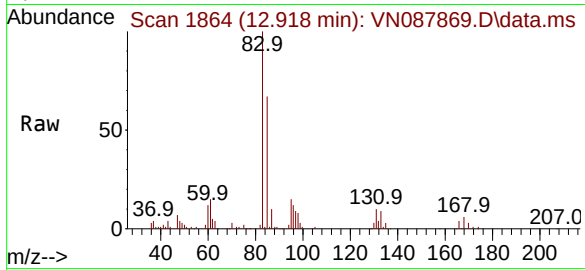
Tgt Ion:105 Resp: 294417  
Ion Ratio Lower Upper  
105 100  
120 26.6 17.4 32.4





#71  
1,1,2,2-Tetrachloroethane  
Concen: 18.614 ug/l  
RT: 12.918 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

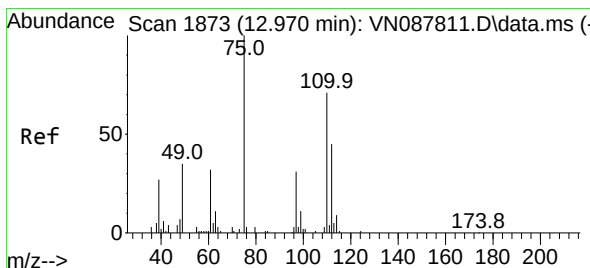
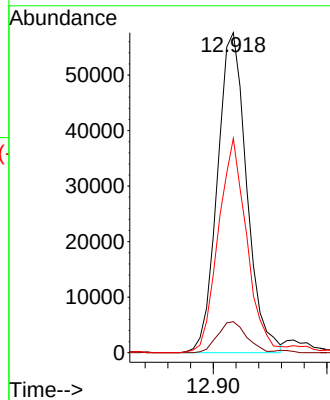
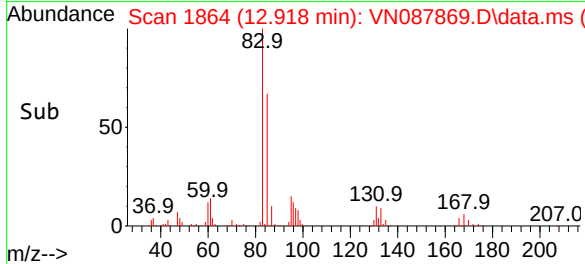
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



Tgt Ion: 83 Resp: 103192  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.9 31.9 95.7

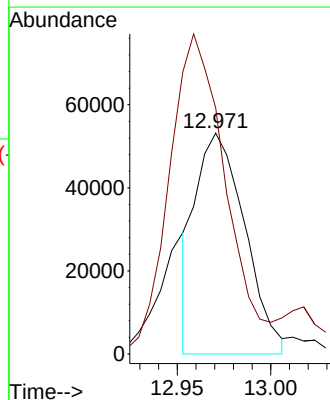
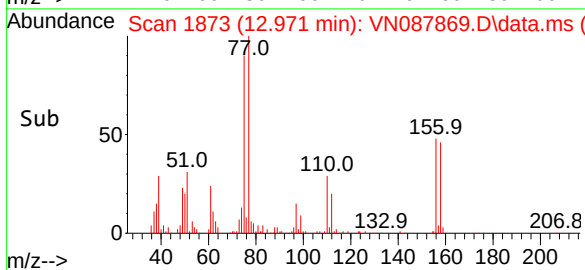
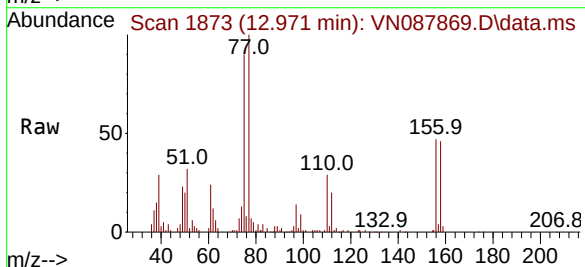
Manual Integrations  
APPROVED

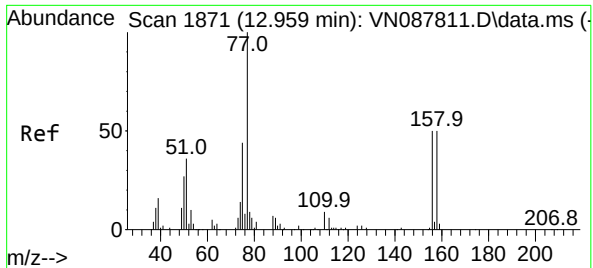
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#72  
1,2,3-Trichloropropane  
Concen: 17.804 ug/l m  
RT: 12.971 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 75 Resp: 96909  
Ion Ratio Lower Upper  
75 100  
77 167.0 0.0 378.8





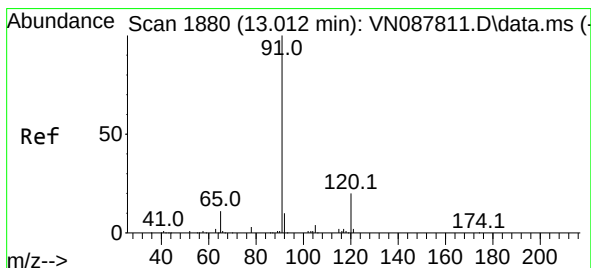
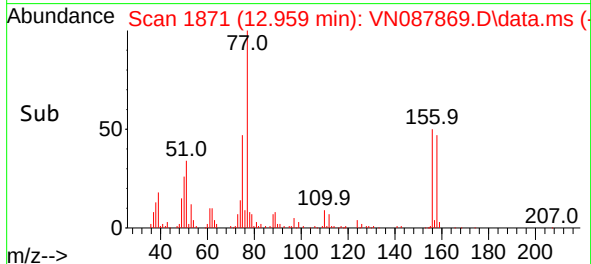
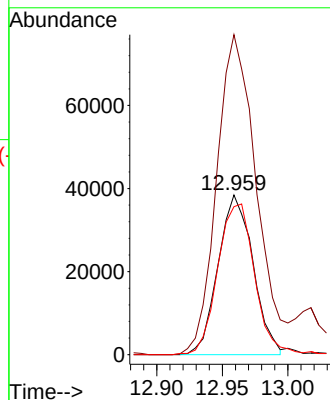
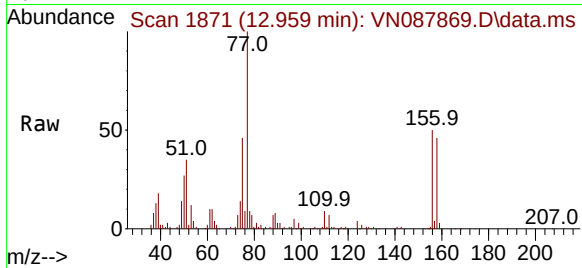
#73  
Bromobenzene  
Concen: 18.889 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

| Tgt Ion:  | 156   | Resp: | 7126  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 156       | 100   |       |       |
| 77        | 227.1 | 0.0   | 484.2 |
| 158       | 99.4  | 0.0   | 186.2 |

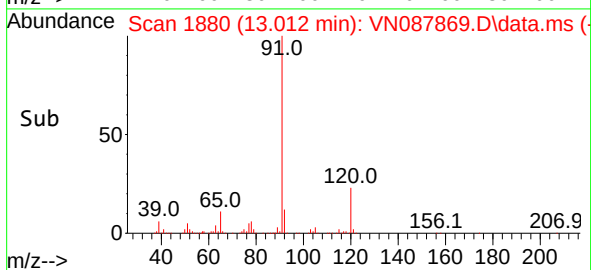
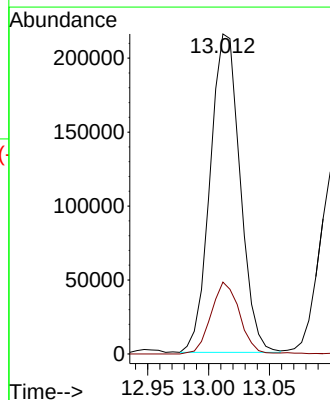
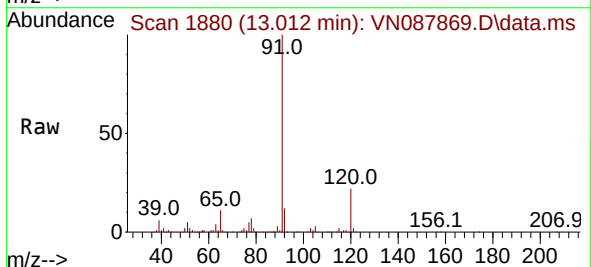
Manual Integrations  
APPROVED

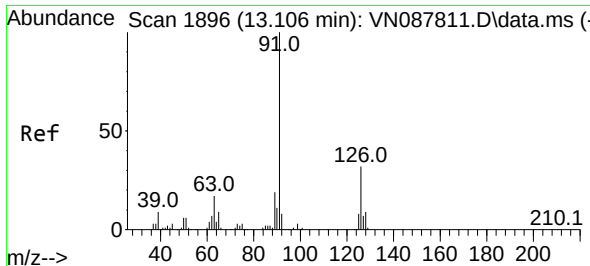
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#74  
n-propylbenzene  
Concen: 18.990 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

| Tgt Ion:  | 91    | Resp: | 369477 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 21.3  | 0.0   | 42.2   |





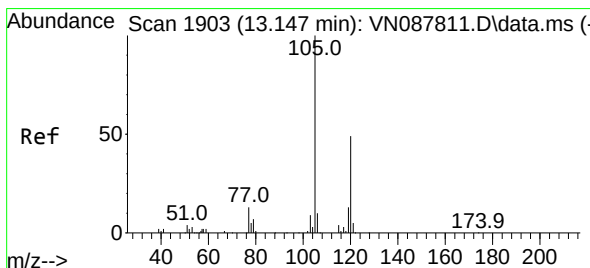
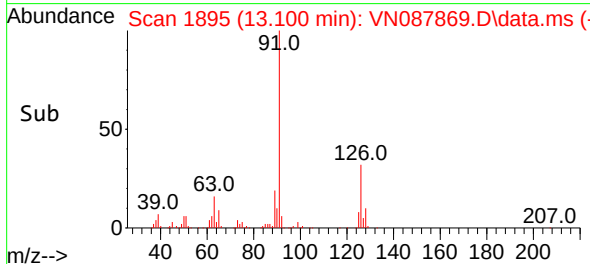
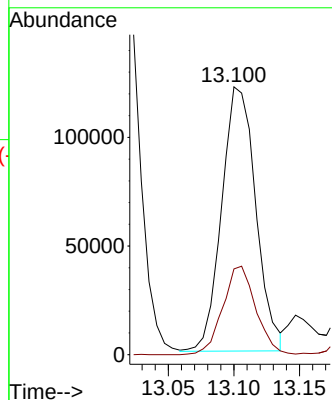
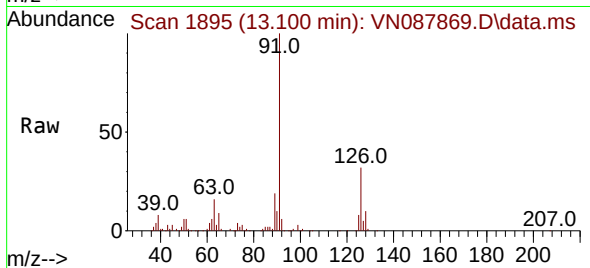
#75  
2-Chlorotoluene  
Concen: 18.796 ug/l  
RT: 13.100 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 91 Resp: 22011  
Ion Ratio Lower Upper  
91 100  
126 32.4 0.0 60.4

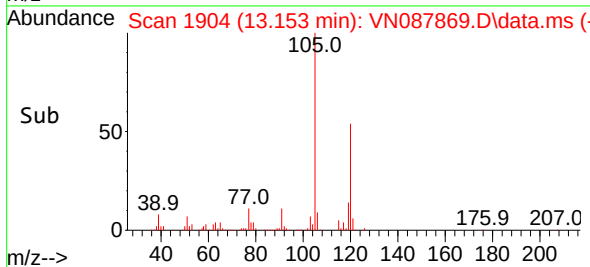
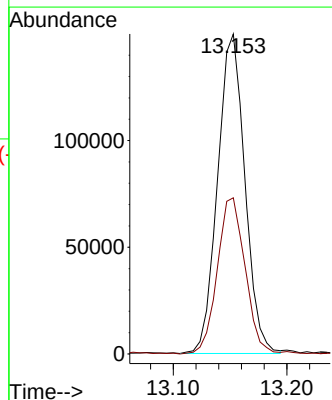
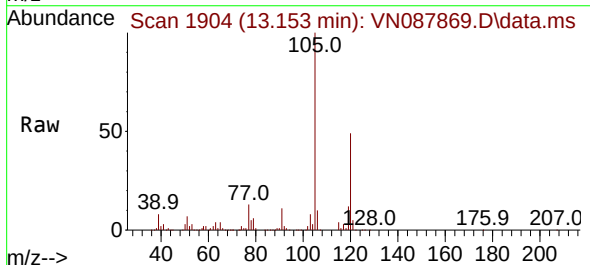
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

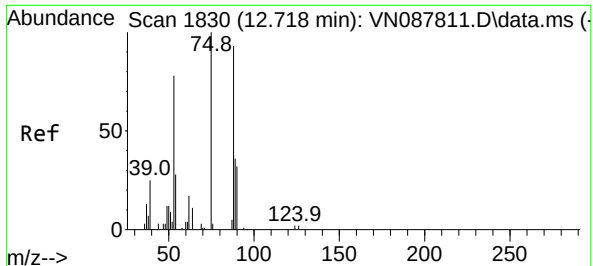


#76  
1,3,5-Trimethylbenzene  
Concen: 19.162 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion:105 Resp: 249532  
Ion Ratio Lower Upper  
105 100  
120 49.8 0.0 92.6







#77

t-1,4-Dichloro-2-butene

Concen: 18.585 ug/l m

RT: 12.718 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

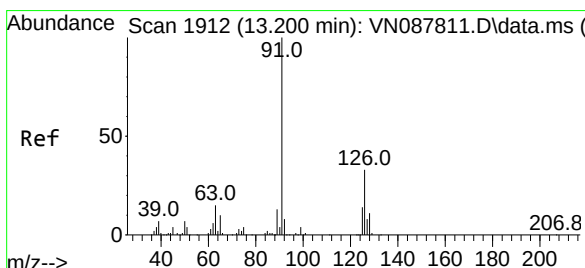
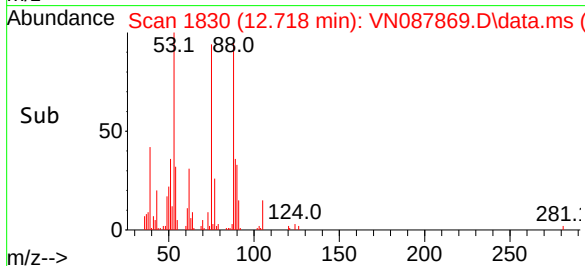
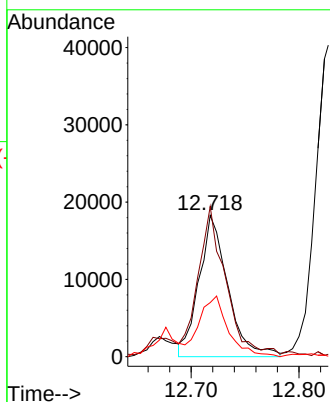
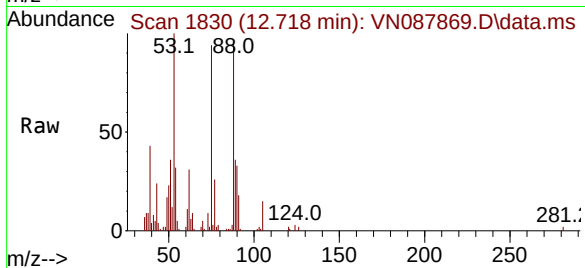
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 3414  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 106.3 | 45.3  | 135.9 |
| 89        | 38.3  | 18.8  | 56.3  |

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#78

4-Chlorotoluene

Concen: 18.179 ug/l

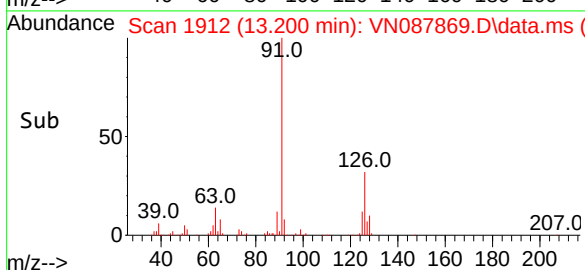
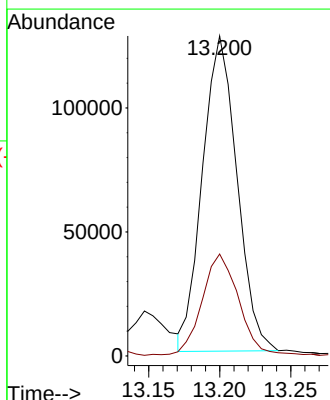
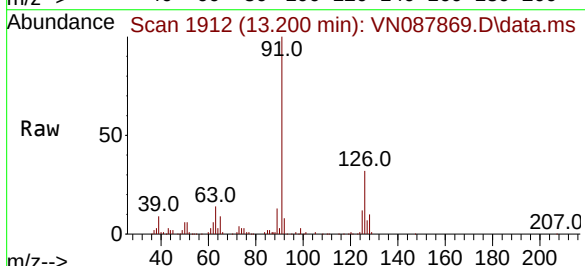
RT: 13.200 min Scan# 1912

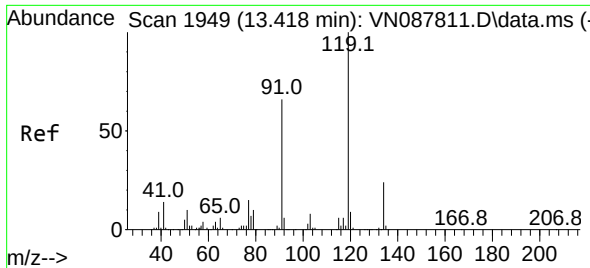
Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 214620 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 35.1  | 0.0   | 67.0   |





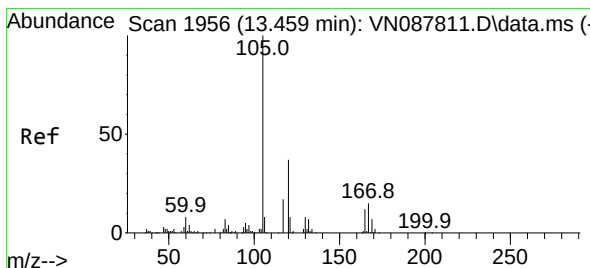
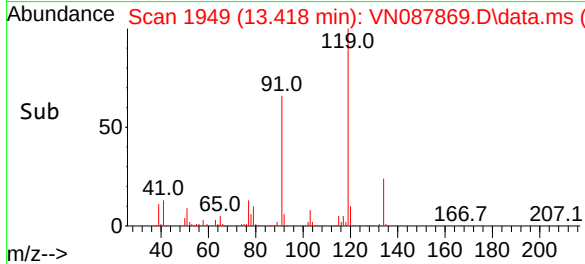
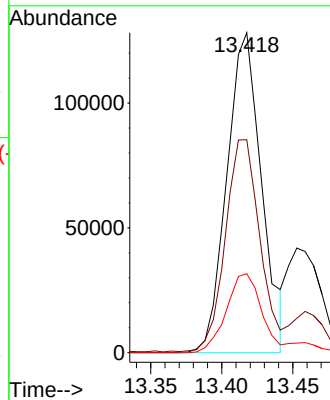
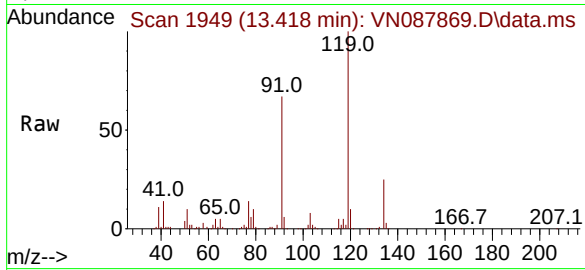
#79  
tert-butylbenzene  
Concen: 19.953 ug/l  
RT: 13.418 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:119 Resp: 217594  
Ion Ratio Lower Upper  
119 100  
91 66.0 0.0 142.6  
134 24.9 0.0 47.2

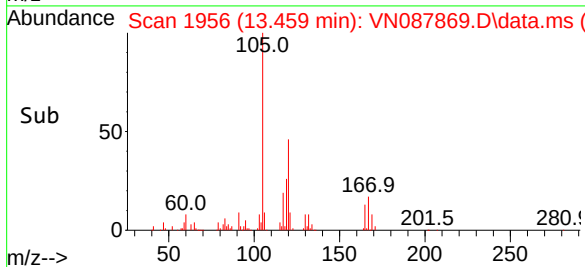
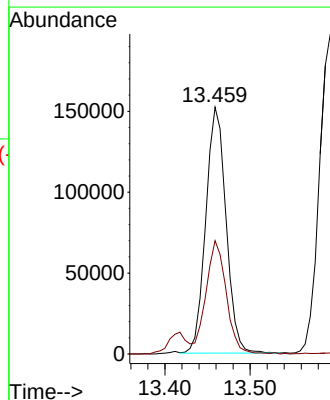
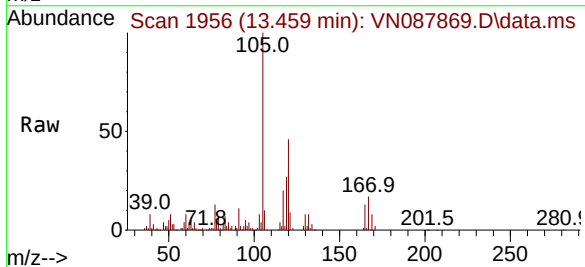
Manual Integrations  
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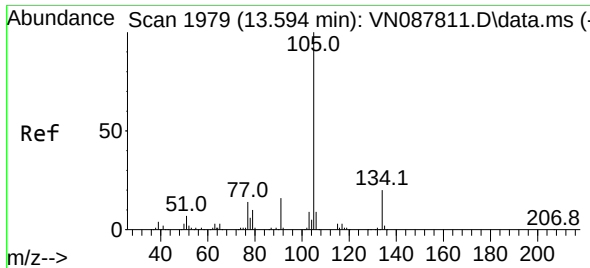
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 18.815 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion:105 Resp: 251183  
Ion Ratio Lower Upper  
105 100  
120 46.1 0.0 86.6





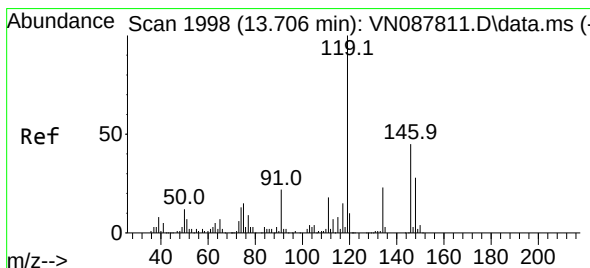
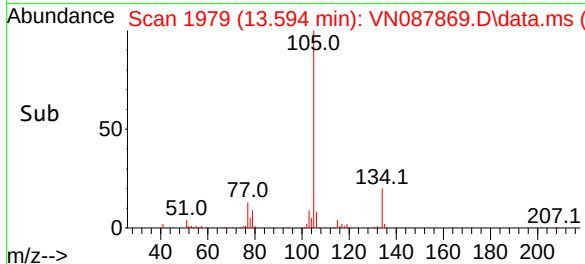
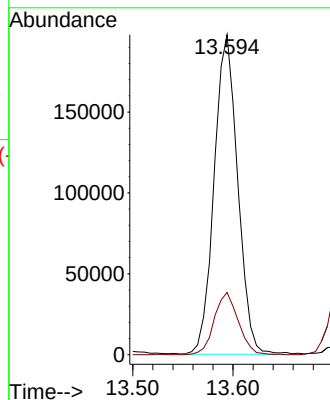
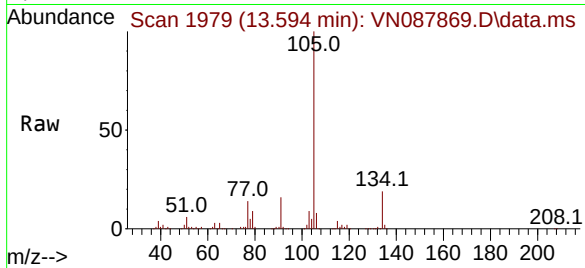
#81  
sec-Butylbenzene  
Concen: 20.100 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:105 Resp: 322425  
Ion Ratio Lower Upper  
105 100  
134 19.8 0.0 37.0

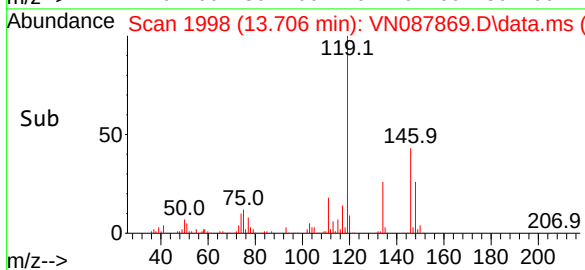
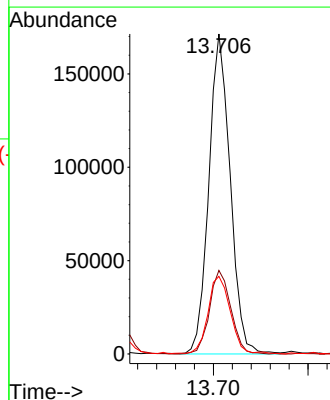
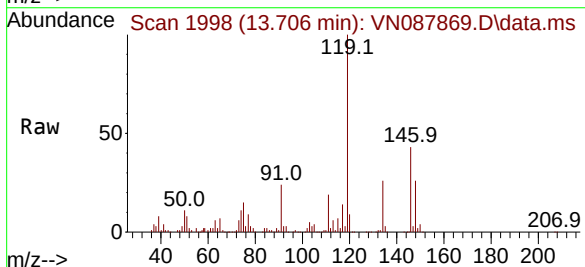
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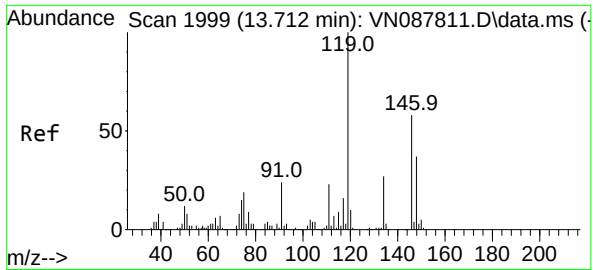
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#82  
p-Isopropyltoluene  
Concen: 20.299 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

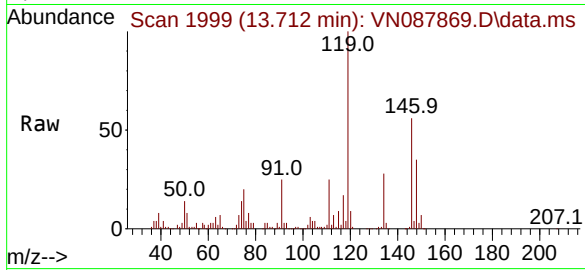
Tgt Ion:119 Resp: 268282  
Ion Ratio Lower Upper  
119 100  
134 26.1 0.0 49.4  
91 24.9 0.0 52.2





#83  
1,3-Dichlorobenzene  
Concen: 19.657 ug/l  
RT: 13.712 min Scan# 1999  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

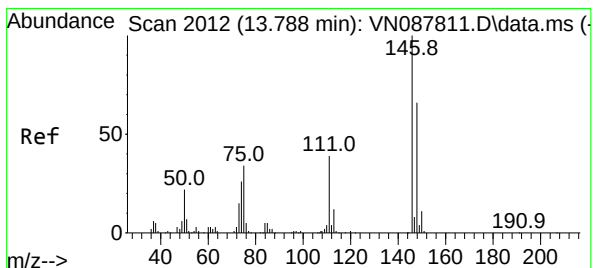
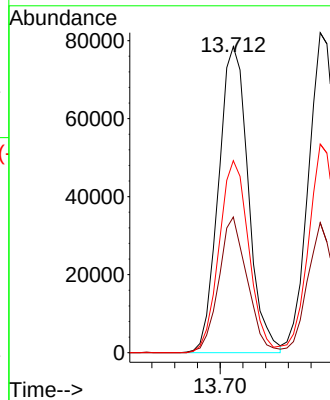
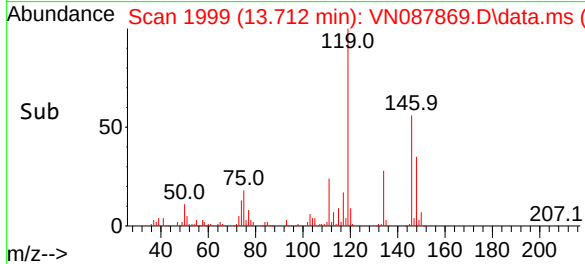
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



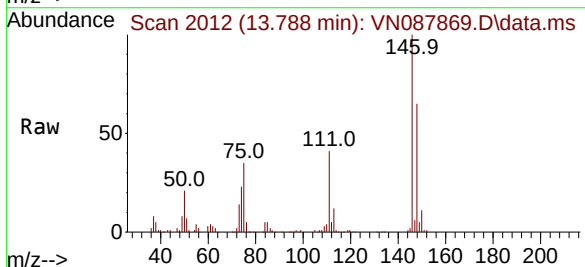
Tgt Ion:146 Resp: 142978  
Ion Ratio Lower Upper  
146 100  
111 42.3 21.1 63.4  
148 62.4 31.0 93.0

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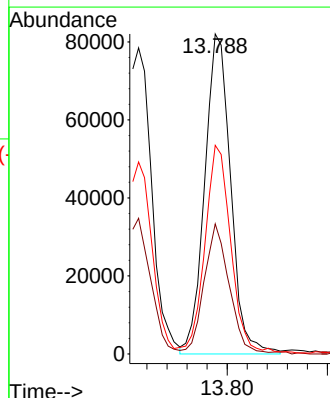
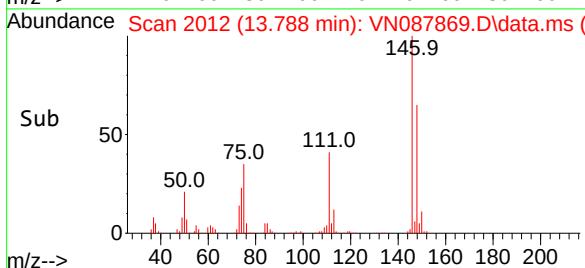
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

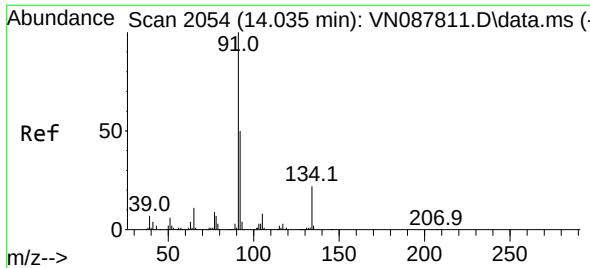


#84  
1,4-Dichlorobenzene  
Concen: 20.261 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



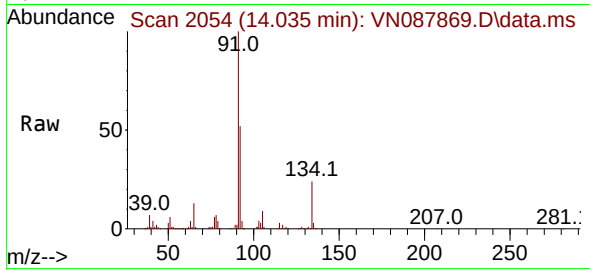
Tgt Ion:146 Resp: 147719  
Ion Ratio Lower Upper  
146 100  
111 39.3 20.2 60.5  
148 63.8 31.5 94.5





#85  
n-Butylbenzene  
Concen: 19.849 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

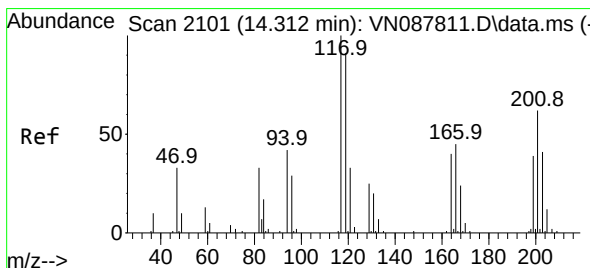
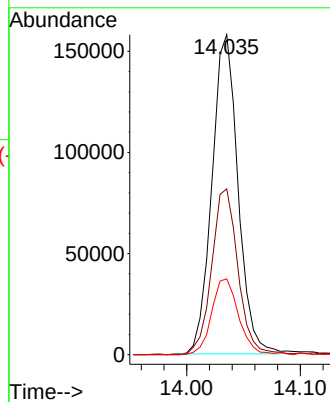
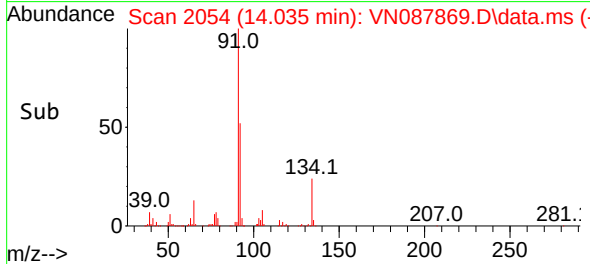
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDC0020



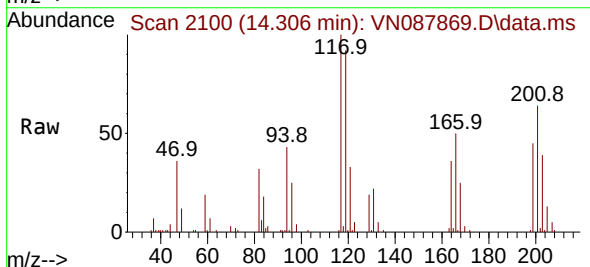
Tgt Ion: 91 Resp: 25216  
Ion Ratio Lower Upper  
91 100  
92 52.4 0.0 104.0  
134 24.7 0.0 46.0

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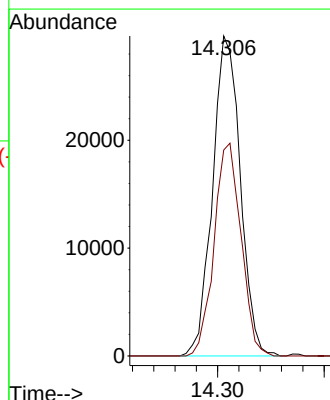
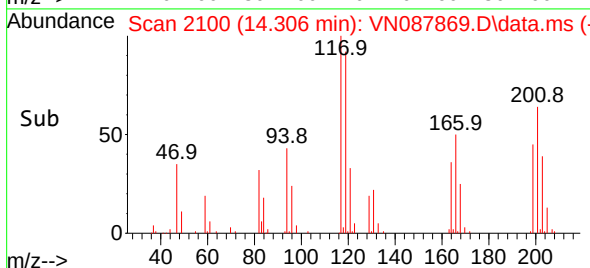
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

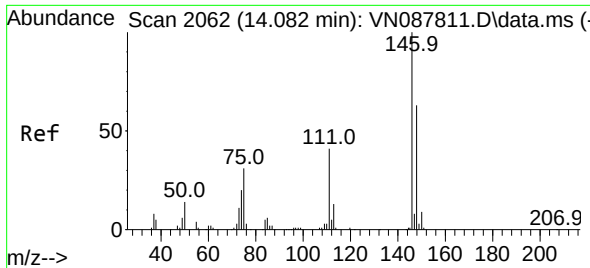


#86  
Hexachloroethane  
Concen: 20.013 ug/l  
RT: 14.306 min Scan# 2100  
Delta R.T. -0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion:117 Resp: 53724  
Ion Ratio Lower Upper  
117 100  
201 64.4 29.9 89.7





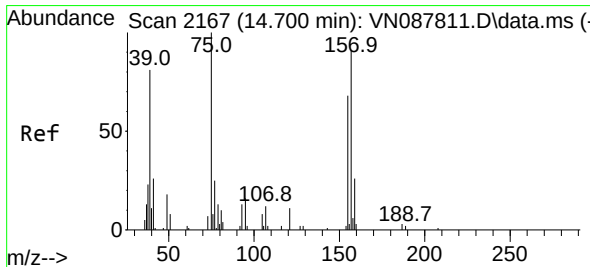
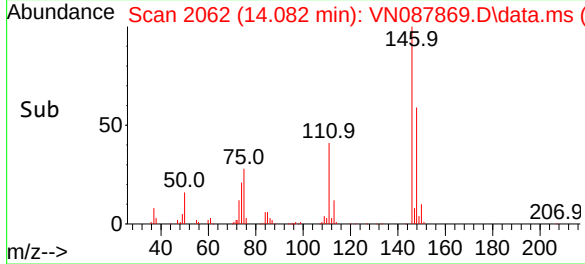
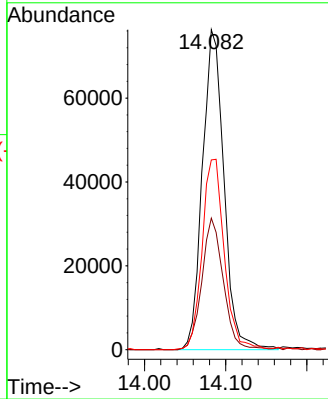
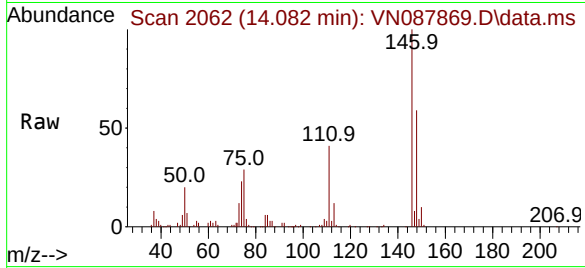
#87  
1,2-Dichlorobenzene  
Concen: 20.507 ug/l  
RT: 14.082 min Scan# 2062  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020

Tgt Ion:146 Resp: 140678  
Ion Ratio Lower Upper  
146 100  
111 40.8 21.5 64.5  
148 60.3 33.4 100.1

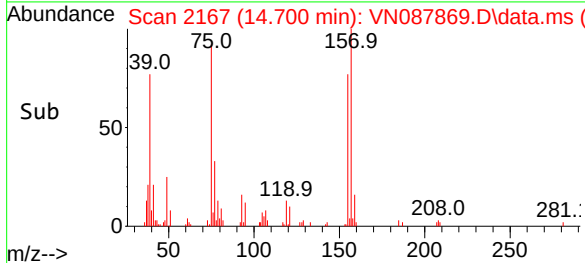
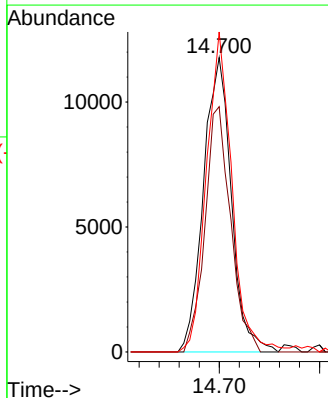
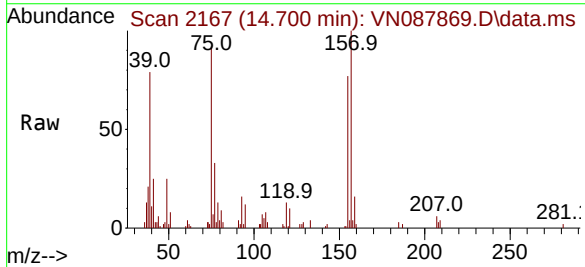
Manual Integrations  
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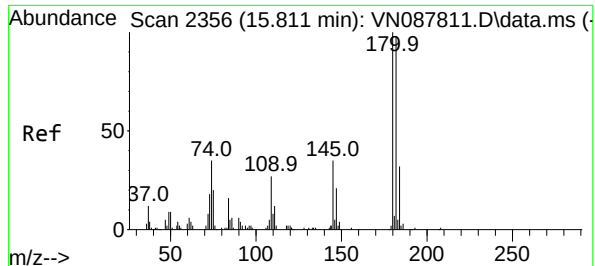
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 18.468 ug/l  
RT: 14.700 min Scan# 2167  
Delta R.T. 0.006 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

Tgt Ion: 75 Resp: 22720  
Ion Ratio Lower Upper  
75 100  
155 76.8 53.0 79.4  
157 99.1 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 20.244 ug/l

RT: 15.812 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC020

Tgt Ion:180 Resp: 7898

Ion Ratio Lower Upper

180 100

182 98.1 74.6 111.8

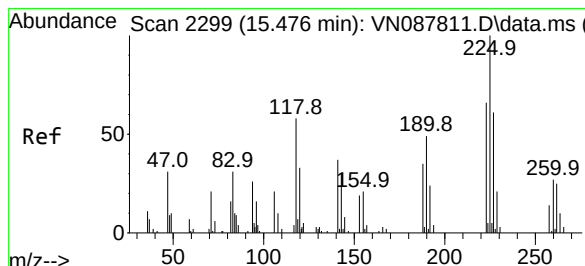
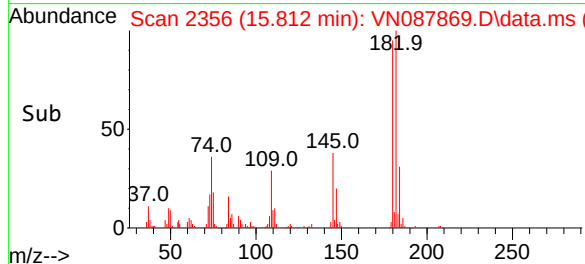
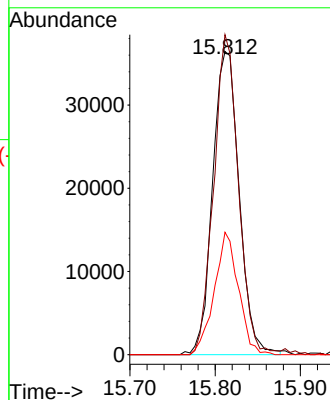
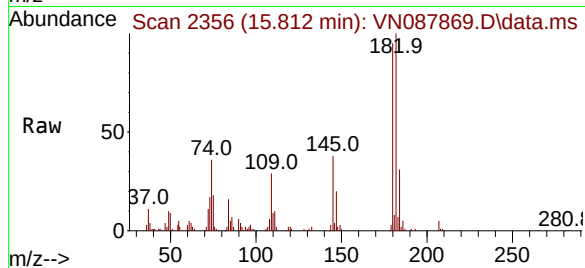
145 36.5 27.4 41.0

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachlorobutadiene

Concen: 22.803 ug/l

RT: 15.470 min Scan# 2298

Delta R.T. -0.000 min

Lab File: VN087869.D

Acq: 17 Sep 2025 09:42

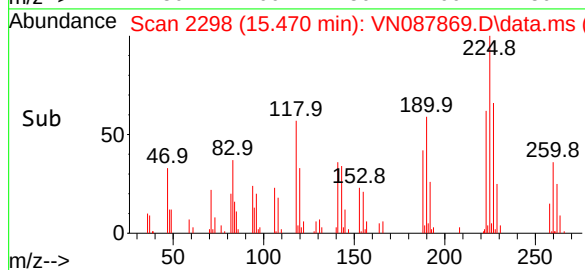
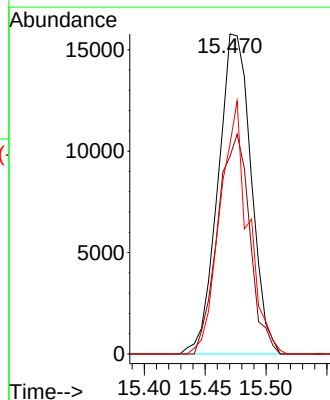
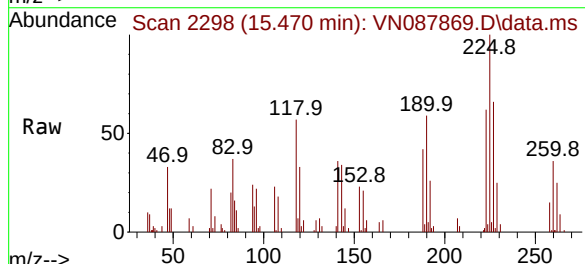
Tgt Ion:225 Resp: 29826

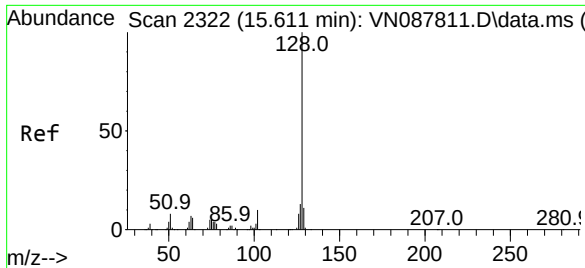
Ion Ratio Lower Upper

225 100

223 66.6 0.0 118.2

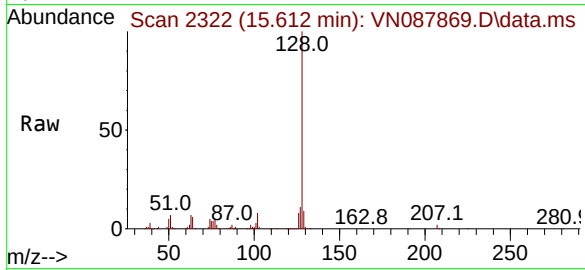
227 67.9 0.0 139.0





#91  
Naphthalene  
Concen: 18.665 ug/l  
RT: 15.612 min Scan# 2322  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42

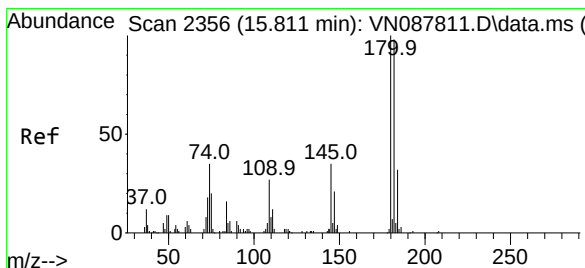
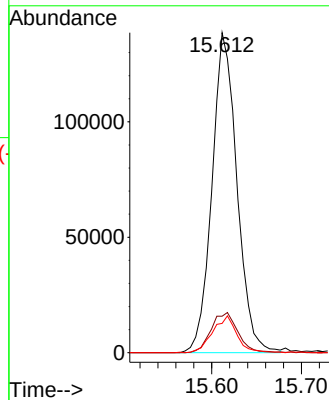
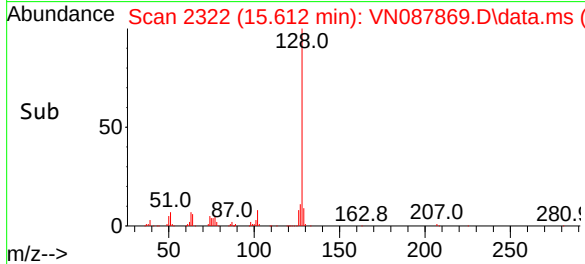
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC020



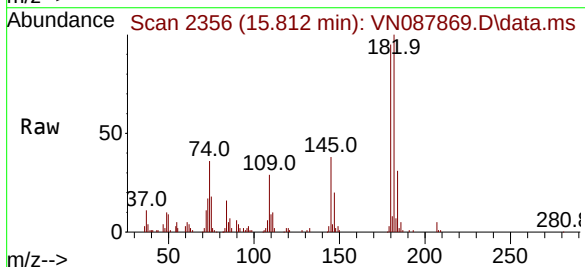
Tgt Ion:128 Resp: 26810  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.2 15.4  
129 11.1 8.3 12.5

Manual Integrations  
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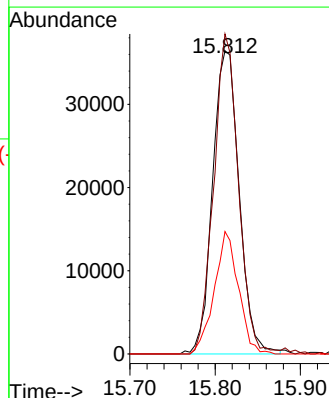
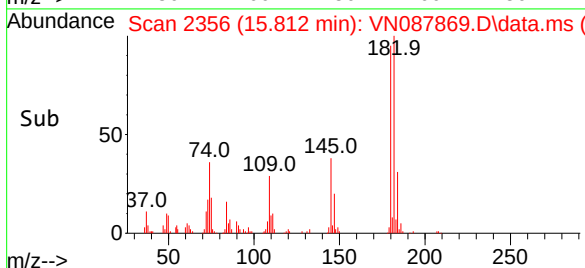
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 20.244 ug/l  
RT: 15.812 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087869.D  
Acq: 17 Sep 2025 09:42



Tgt Ion:180 Resp: 78987  
Ion Ratio Lower Upper  
180 100  
182 98.1 0.0 186.4  
145 36.5 0.0 68.4





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
Data File : VN087869.D  
Acq On : 17 Sep 2025 09:42  
Operator : JC\MD  
Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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   | 122   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.865 | 1.833 | 1.7   | 128   | 0.00     |
| 3 M  | Chloromethane               | 1.957 | 1.487 | 24.0  | 101   | 0.00     |
| 4 M  | Vinyl Chloride              | 2.213 | 1.692 | 23.5  | 103   | 0.00     |
| 5 M  | Bromomethane                | 1.298 | 0.922 | 29.0# | 101   | 0.00     |
| 6 M  | Chloroethane                | 1.512 | 1.076 | 28.8# | 97    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.243 | 2.707 | 16.5  | 114   | 0.00     |
| 8 T  | Diethyl Ether               | 1.370 | 1.004 | 26.7# | 105   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.757 | 1.557 | 11.4  | 119   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.811 | 1.471 | 18.8  | 114   | 0.00     |
| 11   | Methyl Iodide               | 1.282 | 0.790 | 38.4# | 103   | 0.00     |
| 12   | Methyl Acetate              | 2.792 | 2.699 | 3.3   | 129   | 0.00     |
| 13 M | Acrolein                    | 0.497 | 0.578 | -16.3 | 163#  | 0.00     |
| 14 M | Acrylonitrile               | 1.202 | 1.090 | 9.3   | 126   | 0.00     |
| 15 M | Acetone                     | 0.375 | 0.315 | 16.0  | 120   | 0.00     |
| 16 M | Carbon Disulfide            | 4.972 | 4.145 | 16.6  | 116   | 0.00     |
| 17   | Allyl chloride              | 2.958 | 2.555 | 13.6  | 123   | 0.00     |
| 18 M | Methylene Chloride          | 2.052 | 1.906 | 7.1   | 132   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.847 | 1.654 | 10.4  | 122   | -0.01    |
| 20 T | Diisopropyl ether           | 6.802 | 6.097 | 10.4  | 125   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.725 | 3.405 | 8.6   | 127   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.242 | 2.095 | 6.6   | 128   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.425 | 0.392 | 7.8   | 125   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 6.466 | 6.174 | 4.5   | 136   | 0.00     |
| 25 M | Chloroform                  | 3.899 | 3.643 | 6.6   | 127   | 0.00     |
| 26   | Cyclohexane                 | 2.837 | 2.631 | 7.3   | 131   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.563 | 2.512 | 2.0   | 122   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 133   | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.488 | 0.435 | 10.9  | 129   | 0.00     |
| 30 M | 2-Butanone                  | 0.336 | 0.296 | 11.9  | 130   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.588 | 0.608 | -3.4  | 163#  | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.618 | 0.585 | 5.3   | 134   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.515 | 0.484 | 6.0   | 139   | 0.00     |
| 34 M | Benzene                     | 1.576 | 1.389 | 11.9  | 128   | 0.00     |
| 35   | Methacrylonitrile           | 0.351 | 0.303 | 13.7  | 117   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.595 | 0.532 | 10.6  | 128   | 0.00     |
| 37 M | Trichloroethene             | 0.352 | 0.336 | 4.5   | 139   | 0.00     |
| 38   | Methylcyclohexane           | 0.537 | 0.498 | 7.3   | 139   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.404 | 0.353 | 12.6  | 126   | 0.00     |
| 40   | Dibromomethane              | 0.300 | 0.267 | 11.0  | 129   | 0.00     |
| 41 M | Bromodichloromethane        | 0.614 | 0.543 | 11.6  | 127   | 0.00     |
| 42 M | Vinyl Acetate               | 1.122 | 0.929 | 17.2  | 124   | 0.00     |
| 43   | Ethyl Acetate               | 0.686 | 0.591 | 13.8  | 122   | 0.00     |
| 44   | Isopropyl Acetate           | 1.076 | 0.922 | 14.3  | 124   | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.007 | 0.006 | 14.3  | 121   | 0.00     |
| 46   | Methyl methacrylate         | 0.496 | 0.417 | 15.9  | 125   | 0.00     |
| 47   | n-amyl Acetate              | 0.727 | 0.552 | 24.1  | 142   | -0.05    |
| 48 M | t-1,3-Dichloropropene       | 0.638 | 0.544 | 14.7  | 130   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087869.D  
 Acq On : 17 Sep 2025 09:42  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 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     | 0.653 | 0.584 | 10.6  | 137   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.388 | 0.361 | 7.0   | 136   | 0.00     |
| 51   | Ethyl methacrylate          | 0.604 | 0.513 | 15.1  | 133   | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.674 | 0.588 | 12.8  | 126   | 0.00     |
| 53 M | Dibromochloromethane        | 0.435 | 0.404 | 7.1   | 146   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.404 | 0.365 | 9.7   | 134   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.346 | 0.310 | 10.4  | 129   | 0.00     |
| 56 M | Bromoform                   | 0.284 | 0.265 | 6.7   | 146   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 131   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.709 | 0.635 | 10.4  | 127   | 0.00     |
| 59 M | 2-Hexanone                  | 0.464 | 0.410 | 11.6  | 128   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.482 | 0.479 | 0.6   | 128   | 0.00     |
| 61 M | Tetrachloroethene           | 0.299 | 0.295 | 1.3   | 138   | 0.00     |
| 62 M | Toluene                     | 1.815 | 1.660 | 8.5   | 130   | 0.00     |
| 63 S | Toluene-d8                  | 1.395 | 1.343 | 3.7   | 124   | 0.00     |
| 64 M | Chlorobenzene               | 1.114 | 1.042 | 6.5   | 135   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.392 | 0.377 | 3.8   | 139   | 0.00     |
| 66 M | Ethyl Benzene               | 1.958 | 1.821 | 7.0   | 136   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.727 | 0.678 | 6.7   | 138   | 0.00     |
| 68 M | o-Xylene                    | 0.705 | 0.643 | 8.8   | 131   | 0.00     |
| 69 M | Styrene                     | 1.225 | 1.108 | 9.6   | 134   | 0.00     |
| 70   | Isopropylbenzene            | 1.787 | 1.706 | 4.5   | 143   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.642 | 0.598 | 6.9   | 129   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.631 | 0.561 | 11.1  | 115   | 0.00     |
| 73   | Bromobenzene                | 0.437 | 0.413 | 5.5   | 137   | 0.00     |
| 74   | n-propylbenzene             | 2.254 | 2.140 | 5.1   | 139   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.357 | 1.275 | 6.0   | 134   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.509 | 1.446 | 4.2   | 140   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.213 | 0.198 | 7.0   | 142   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.368 | 1.243 | 9.1   | 129   | 0.00     |
| 79   | tert-butylbenzene           | 1.263 | 1.261 | 0.2   | 145   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.547 | 1.455 | 5.9   | 135   | 0.00     |
| 81   | sec-Butylbenzene            | 1.858 | 1.868 | -0.5  | 145   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.531 | 1.554 | -1.5  | 149   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.843 | 0.828 | 1.8   | 137   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.845 | 0.856 | -1.3  | 144   | 0.00     |
| 85   | n-Butylbenzene              | 1.472 | 1.461 | 0.7   | 149   | 0.00     |
| 86 T | Hexachloroethane            | 0.311 | 0.311 | 0.0   | 142   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.795 | 0.815 | -2.5  | 145   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.143 | 0.132 | 7.7   | 124   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.452 | 0.458 | -1.3  | 149   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.152 | 0.173 | -13.8 | 155#  | 0.00     |
| 91 M | Naphthalene                 | 1.664 | 1.553 | 6.7   | 141   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.452 | 0.458 | -1.3  | 149   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
Data File : VN087869.D  
Acq On : 17 Sep 2025 09:42  
Operator : JC\MD  
Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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   | 122   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 19.663  | 1.7   | 128   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 15.195  | 24.0  | 101   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 15.293  | 23.5  | 103   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 14.205  | 29.0# | 101   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 14.235  | 28.8# | 97    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 16.695  | 16.5  | 114   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 14.668  | 26.7# | 105   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 17.723  | 11.4  | 119   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 16.247  | 18.8  | 114   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 12.324  | 38.4# | 103   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 19.337  | 3.3   | 129   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 116.214 | -16.2 | 163   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 90.687  | 9.3   | 126   | 0.00     |
| 15 M | Acetone                     | 100.000 | 84.010  | 16.0  | 120   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 16.674  | 16.6  | 116   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 17.278  | 13.6  | 123   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 18.580  | 7.1   | 132   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.909  | 10.5  | 122   | -0.01    |
| 20 T | Diisopropyl ether           | 20.000  | 17.926  | 10.4  | 125   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.283  | 8.6   | 127   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.692  | 6.5   | 128   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 92.244  | 7.8   | 125   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.098  | 4.5   | 136   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 18.683  | 6.6   | 127   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.551  | 7.2   | 131   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 29.406  | 2.0   | 122   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 133   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.828  | 10.9  | 129   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 88.150  | 11.8  | 130   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.675  | -3.4  | 163   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.918  | 5.4   | 134   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 18.801  | 6.0   | 139   | 0.00     |
| 34 M | Benzene                     | 20.000  | 17.628  | 11.9  | 128   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 17.244  | 13.8  | 117   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 17.869  | 10.7  | 128   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 19.090  | 4.6   | 139   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.550  | 7.2   | 139   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 17.494  | 12.5  | 126   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 17.772  | 11.1  | 129   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.689  | 11.6  | 127   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 82.808  | 17.2  | 124   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.221  | 13.9  | 122   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.138  | 14.3  | 124   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 354.558 | 11.4  | 121   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 16.814  | 15.9  | 125   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 15.176  | 24.1  | 142   | -0.05    |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.051  | 14.7  | 130   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
Data File : VN087869.D  
Acq On : 17 Sep 2025 09:42  
Operator : JC\MD  
Sample : VSTDCCC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 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  | 17.874 | 10.6  | 137   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.631 | 6.8   | 136   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 16.987 | 15.1  | 133   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 17.456 | 12.7  | 126   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.558 | 7.2   | 146   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.087 | 9.6   | 134   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 89.490 | 10.5  | 129   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 18.693 | 6.5   | 146   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0   | 131   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 89.532 | 10.5  | 127   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 88.377 | 11.6  | 128   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.761 | 0.8   | 128   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 19.754 | 1.2   | 138   | 0.00     |
| 62 M | Toluene                     | 20.000  | 18.296 | 8.5   | 130   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 28.879 | 3.7   | 124   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 18.713 | 6.4   | 135   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.239 | 3.8   | 139   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.600 | 7.0   | 136   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 37.305 | 6.7   | 138   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.241 | 8.8   | 131   | 0.00     |
| 69 M | Styrene                     | 20.000  | 18.095 | 9.5   | 134   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.093 | 4.5   | 143   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.614 | 6.9   | 129   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 17.804 | 11.0  | 115   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 18.889 | 5.6   | 137   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.990 | 5.1   | 139   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.796 | 6.0   | 134   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.162 | 4.2   | 140   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 18.585 | 7.1   | 142   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.179 | 9.1   | 129   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.953 | 0.2   | 145   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.815 | 5.9   | 135   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.100 | -0.5  | 145   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.299 | -1.5  | 149   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.657 | 1.7   | 137   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 20.261 | -1.3  | 144   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.849 | 0.8   | 149   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 20.013 | -0.1  | 142   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.507 | -2.5  | 145   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.468 | 7.7   | 124   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.244 | -1.2  | 149   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 22.803 | -14.0 | 155   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.665 | 6.7   | 141   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 20.244 | -1.2  | 149   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

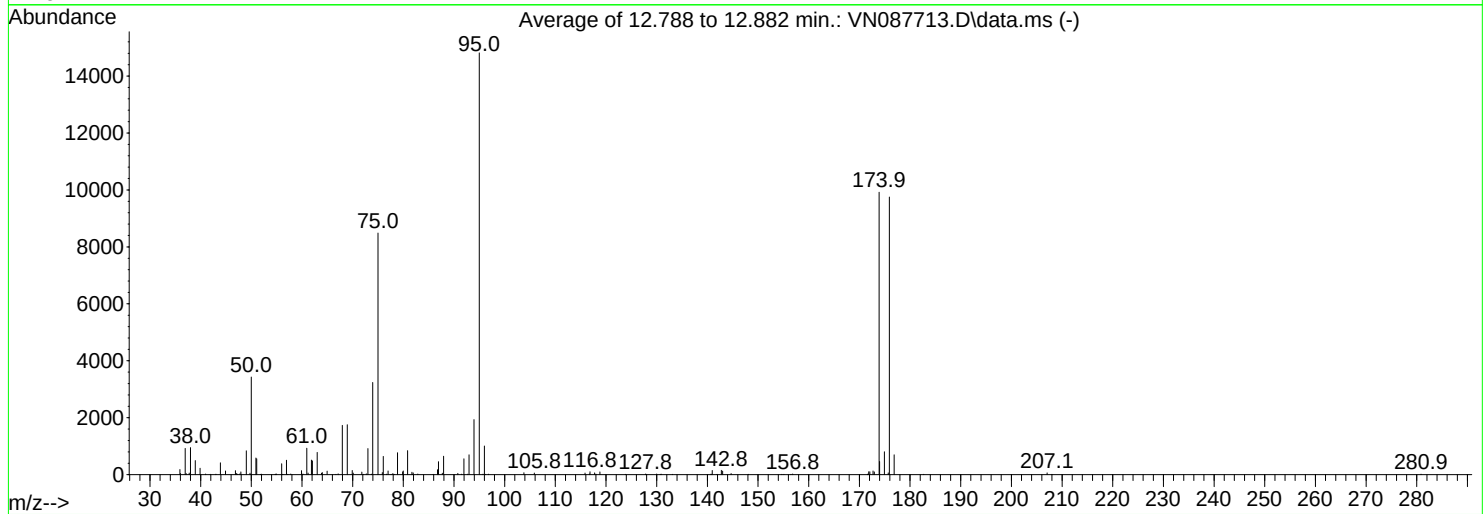
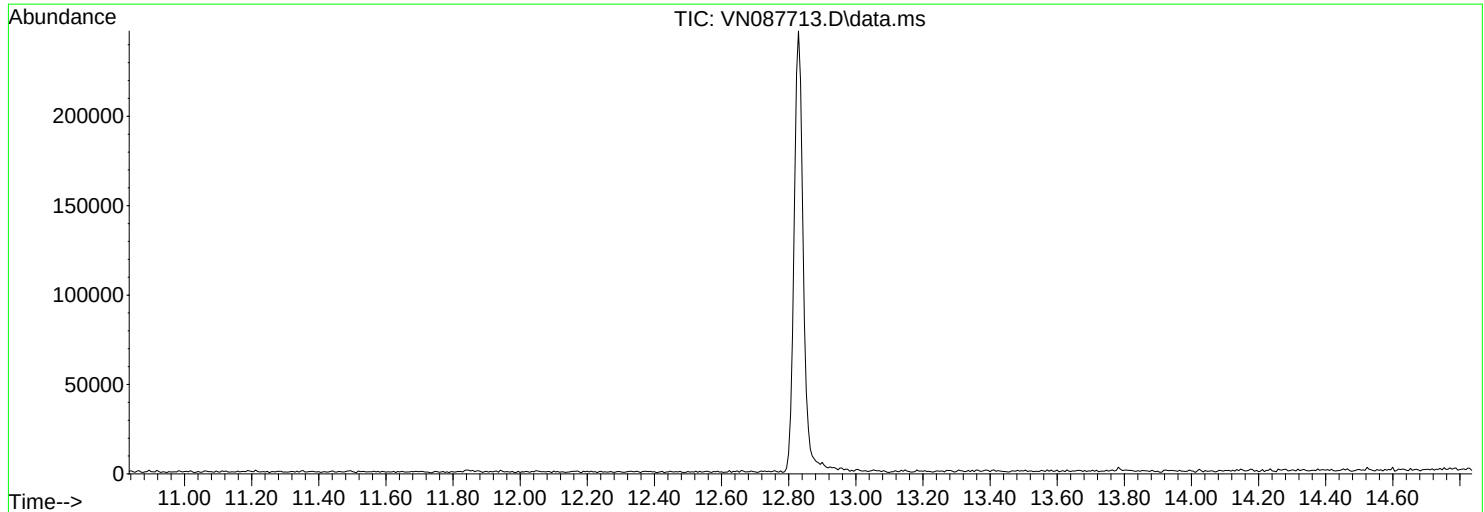
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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

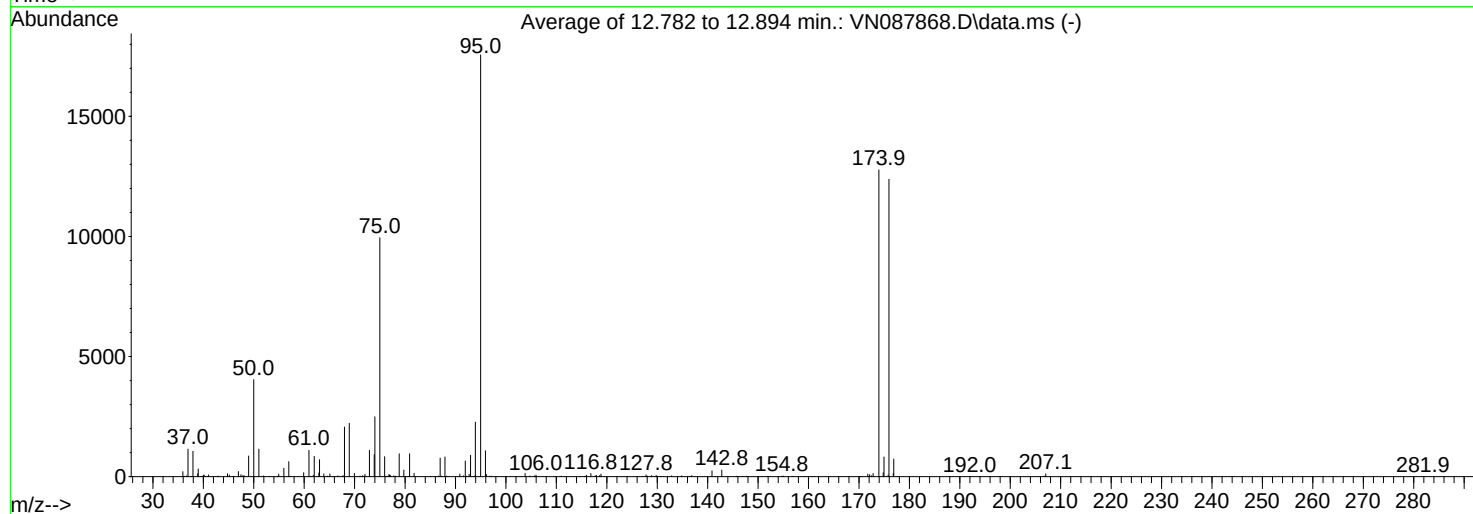
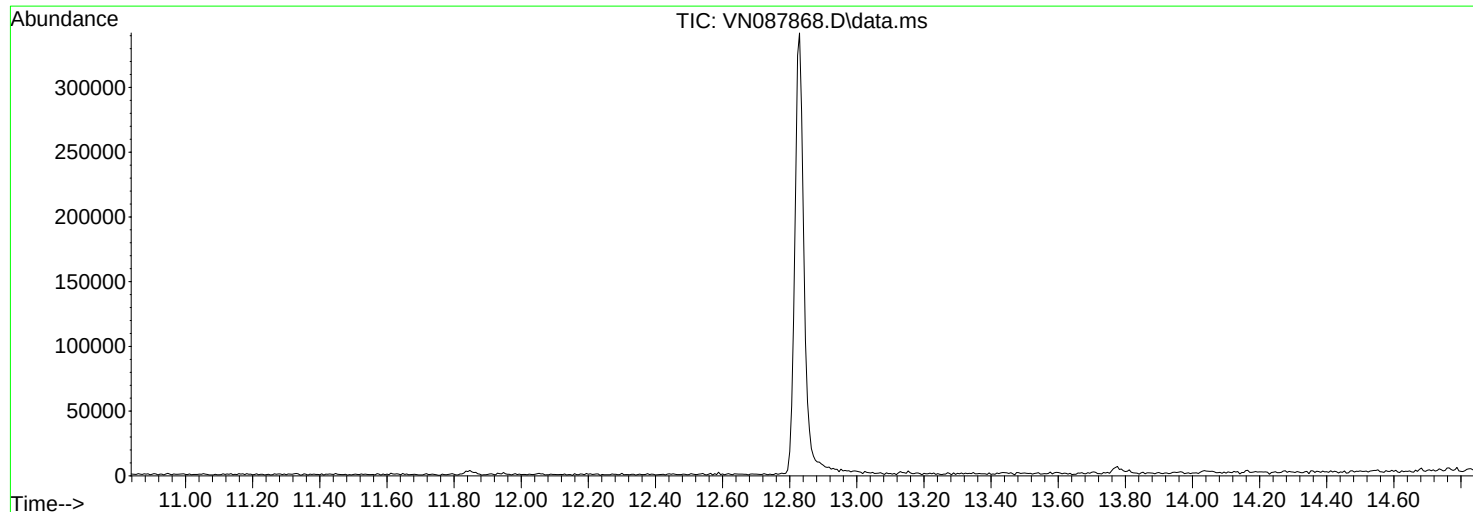
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw   | Result    |
|--------|---------|--------|--------|-------|-------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn   | Pass/Fail |
| 50     | 95      | 15     | 40     | 23.1  | 3426  | PASS      |
| 75     | 95      | 30     | 60     | 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      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
Data File : VN087868.D  
Acq On : 17 Sep 2025 08:24  
Operator : JC\MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 2 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 1841 to 1860; 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     | 23.0  | 4036  | PASS      |
| 75     | 95      | 30     | 60     | 56.6  | 9947  | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 17560 | PASS      |
| 96     | 95      | 5      | 9      | 6.1   | 1076  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.1   | 135   | PASS      |
| 174    | 95      | 50     | 100    | 72.7  | 12770 | PASS      |
| 175    | 174     | 5      | 9      | 6.4   | 820   | PASS      |
| 176    | 174     | 95     | 101    | 97.0  | 12386 | PASS      |
| 177    | 176     | 5      | 9      | 5.9   | 730   | PASS      |

### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBL01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBL01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087872.D        | 1         | 09/17/25 12:03 | VN091725      |

| 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  |
| 75-35-4        | 1,1-Dichloroethene       | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 107-02-8       | Acrolein                 | 6.60  | U         | 6.60 | 25.0       | ug/L  |
| 107-13-1       | Acrylonitrile            | 2.80  | U         | 2.80 | 25.0       | 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  |
| 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  |
| 108-05-4       | Vinyl Acetate            | 3.20  | U         | 3.20 | 25.0       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane       | 0.68  | U         | 0.68 | 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  |
| 594-20-7       | 2,2-Dichloropropane      | 0.66  | U         | 0.66 | 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  |
| 563-58-6       | 1,1-Dichloropropene      | 0.63  | U         | 0.63 | 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  |
| 74-95-3        | Dibromomethane           | 0.59  | U         | 0.59 | 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  |



### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBL01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBL01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087872.D        | 1         | 09/17/25 12:03 | VN091725      |

| CAS Number  | Parameter                 | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|-------|-----------|------|------------|-------|
| 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  |
| 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  |
| 142-28-9    | 1,3-Dichloropropane       | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 110-75-8    | 2-Chloroethyl vinyl ether | 4.60  | U         | 4.60 | 25.0       | 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  |
| 630-20-6    | 1,1,1,2-Tetrachloroethane | 0.62  | U         | 0.62 | 5.00       | ug/L  |
| 67-72-1     | Hexachloroethane          | 0.98  | U         | 0.98 | 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  |
| 1330-20-7   | Total Xylenes             | 1.97  | U         | 1.97 | 15.0       | 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  |
| 96-18-4     | 1,2,3-Trichloropropane    | 0.62  | U         | 0.62 | 5.00       | ug/L  |
| 108-86-1    | Bromobenzene              | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 103-65-1    | n-propylbenzene           | 0.67  | U         | 0.67 | 5.00       | ug/L  |
| 95-49-8     | 2-Chlorotoluene           | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 106-43-4    | 4-Chlorotoluene           | 0.62  | U         | 0.62 | 5.00       | ug/L  |
| 98-06-6     | tert-butylbenzene         | 0.71  | U         | 0.71 | 5.00       | ug/L  |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 0.77  | U         | 0.77 | 5.00       | ug/L  |
| 135-98-8    | sec-Butylbenzene          | 0.64  | U         | 0.64 | 5.00       | ug/L  |
| 99-87-6     | p-Isopropyltoluene        | 0.70  | U         | 0.70 | 5.00       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBL01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBL01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087872.D        | 1         | 09/17/25 12:03 | VN091725      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 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    |
| 104-51-8                  | n-Butylbenzene              | 0.82   | U         | 0.82     | 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    |
| 87-68-3                   | Hexachlorobutadiene         | 0.68   | U         | 0.68     | 5.00       | ug/L    |
| 91-20-3                   | Naphthalene                 | 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       | 28.8   |           | 91 - 110 | 96%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 28.9   |           | 91 - 112 | 96%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 26.4   |           | 63 - 112 | 88%        | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 50700  | 7.8       |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 260000 | 9.083     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 235000 | 11.847    |          |            |         |
| 74-97-5                   | Bromochloromethane          | 50700  | 7.8       |          |            |         |

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\VN091725\  
Data File : VN087872.D  
Acq On : 17 Sep 2025 12:03  
Operator : JC\MD  
Sample : VN0917WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL01

Quant Time: Sep 18 03:09:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 7.800  | 128  | 50672    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 9.083  | 114  | 260263   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.847 | 117  | 234698   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 27) 1,2-Dichloroethane-d4   | 8.559  | 65    | 124770   | 28.825   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 96.067% |
| 60) 4-Bromofluorobenzene    | 12.829 | 95    | 99589    | 26.390   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 87.967% |
| 63) Toluene-d8              | 10.547 | 98    | 315410   | 28.898   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 96.333% |

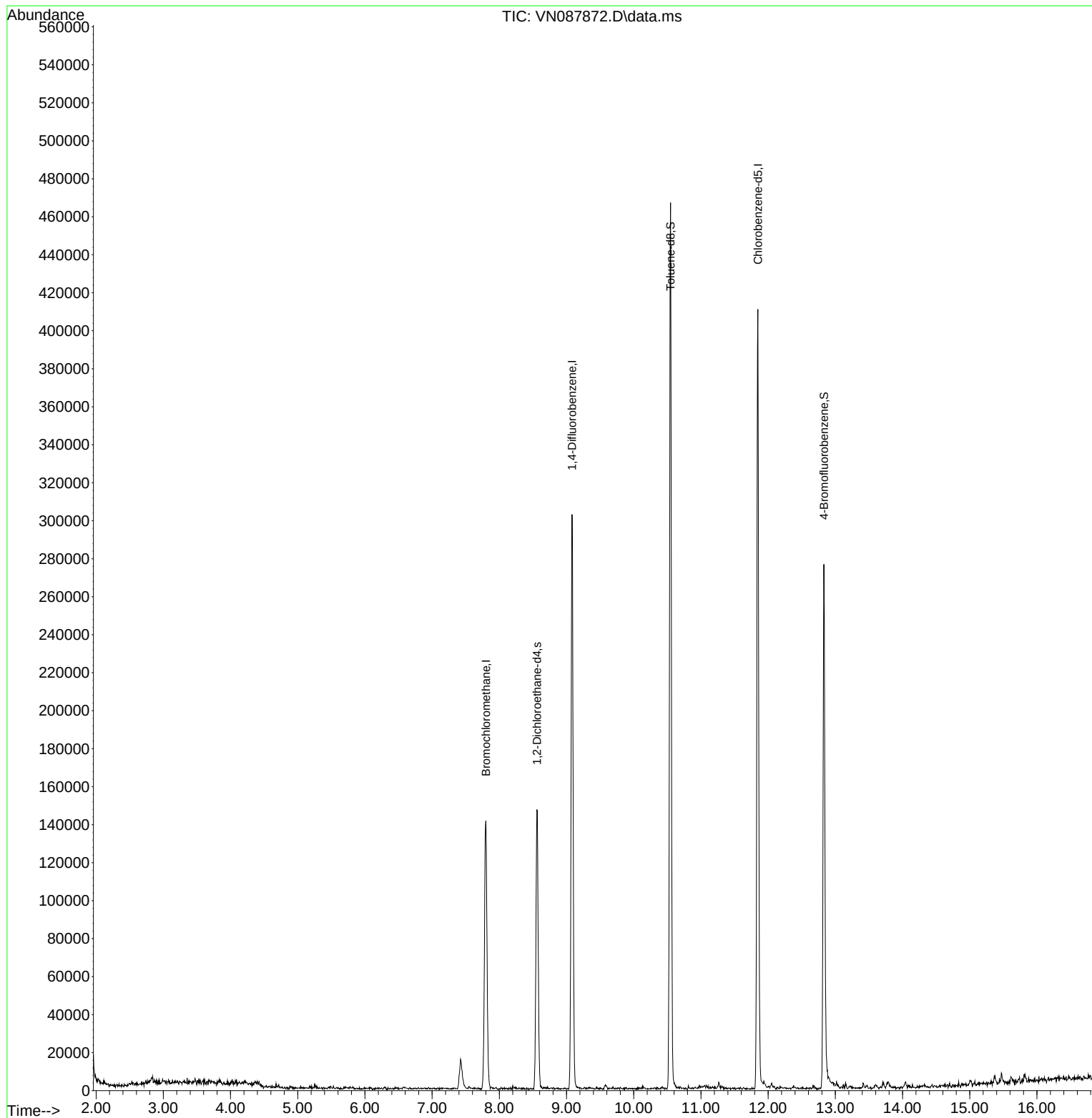
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

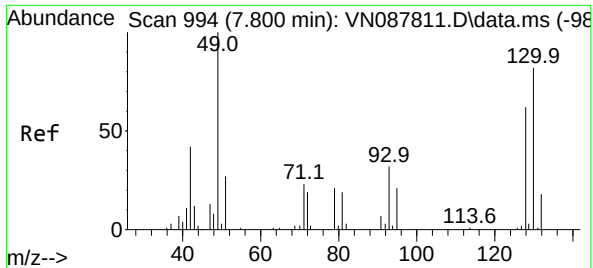
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
Data File : VN087872.D  
Acq On : 17 Sep 2025 12:03  
Operator : JC\MD  
Sample : VN0917WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL01

Quant Time: Sep 18 03:09:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Sep 05 03:29:53 2025  
Response via : Initial Calibration

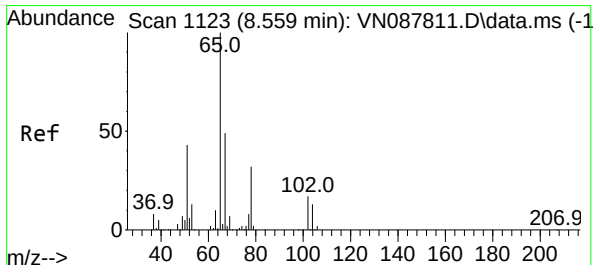
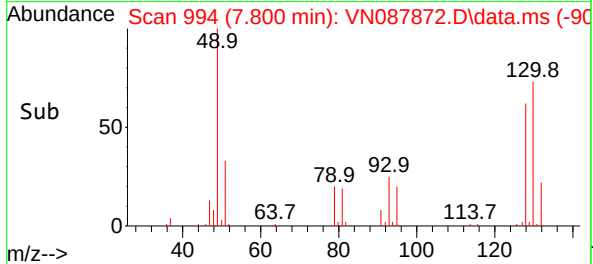
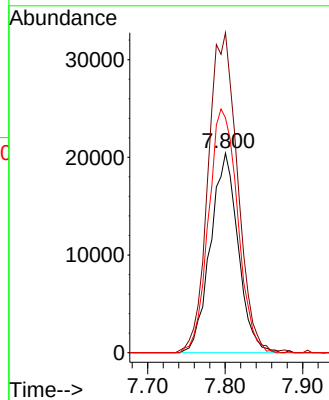
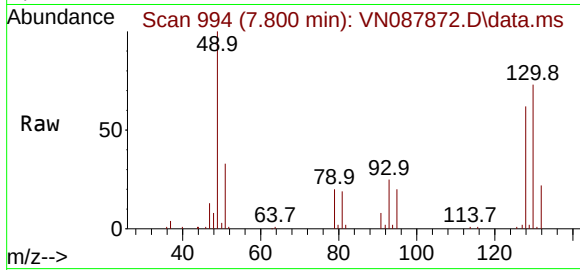




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.006 min  
Lab File: VN087872.D  
Acq: 17 Sep 2025 12:03

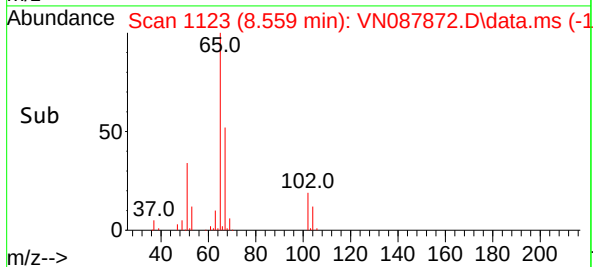
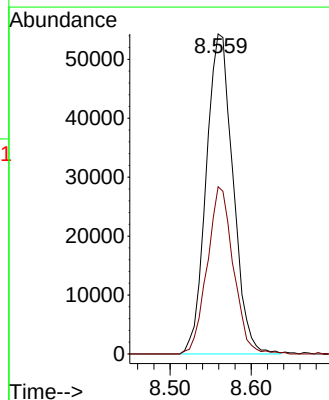
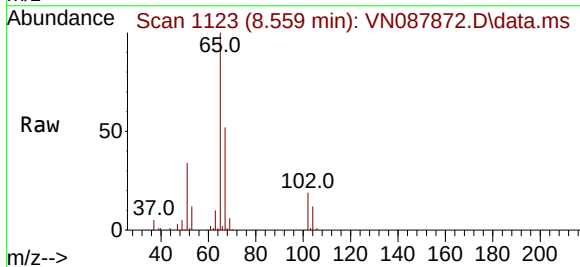
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL01

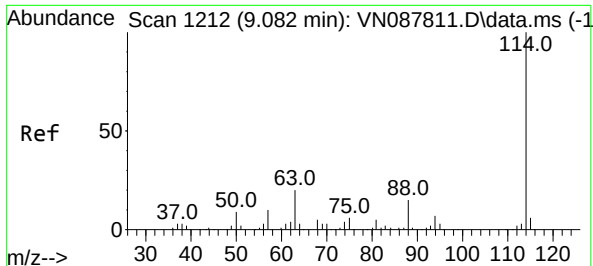
Tgt Ion:128 Resp: 50672  
Ion Ratio Lower Upper  
128 100  
49 170.0 0.0 464.3  
130 128.5 0.0 300.5



#27  
1,2-Dichloroethane-d4  
Concen: 28.825 ug/l  
RT: 8.559 min Scan# 1123  
Delta R.T. 0.000 min  
Lab File: VN087872.D  
Acq: 17 Sep 2025 12:03

Tgt Ion: 65 Resp: 124770  
Ion Ratio Lower Upper  
65 100  
67 50.9 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087872.D

Acq: 17 Sep 2025 12:03

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBL01

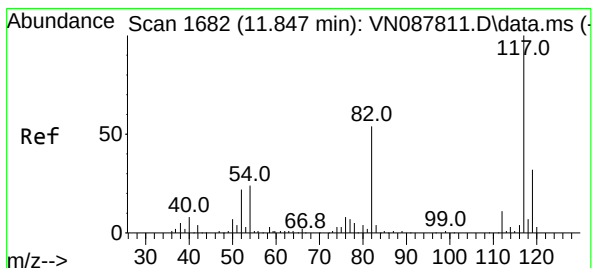
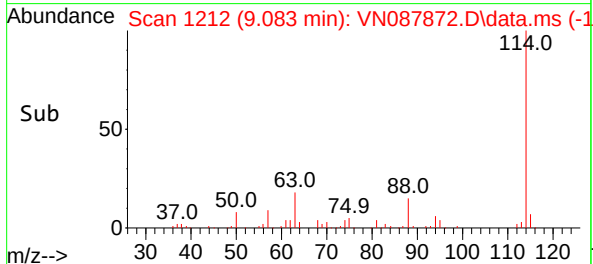
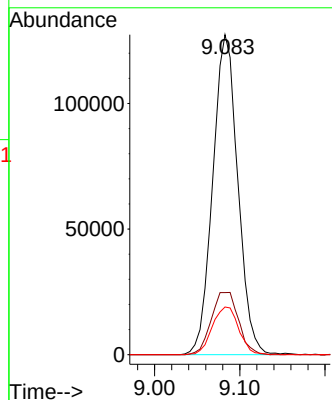
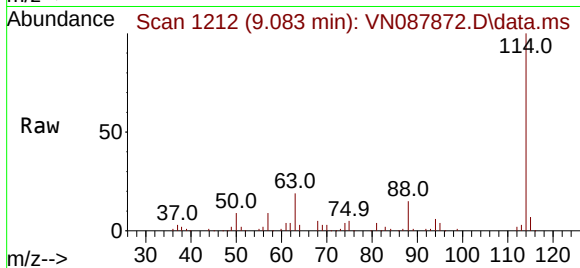
Tgt Ion:114 Resp: 260263

Ion Ratio Lower Upper

114 100

63 21.1 18.3 27.5

88 15.7 12.4 18.6



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.006 min

Lab File: VN087872.D

Acq: 17 Sep 2025 12:03

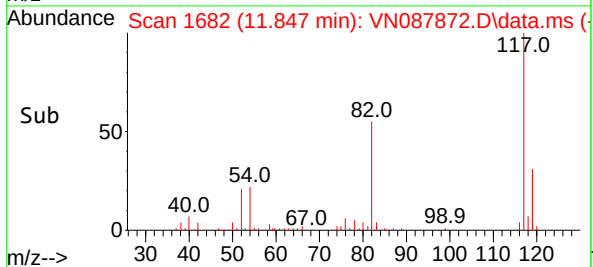
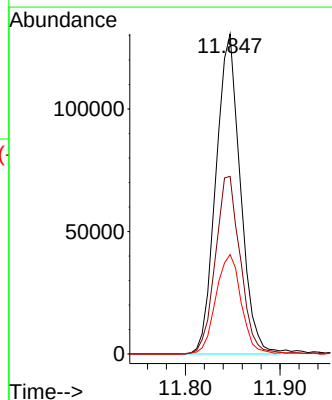
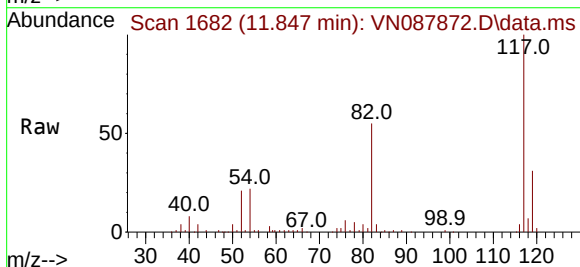
Tgt Ion:117 Resp: 234698

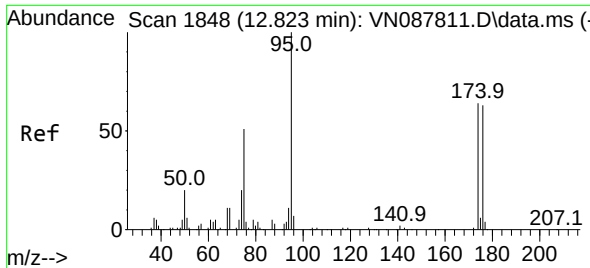
Ion Ratio Lower Upper

117 100

82 56.6 45.9 68.9

119 32.0 25.3 37.9

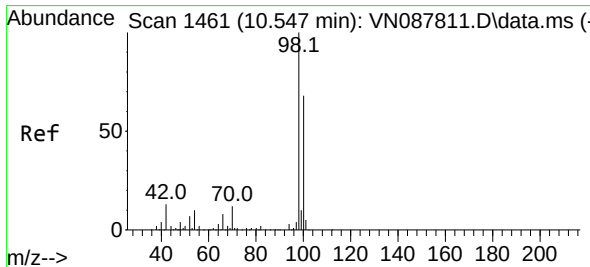
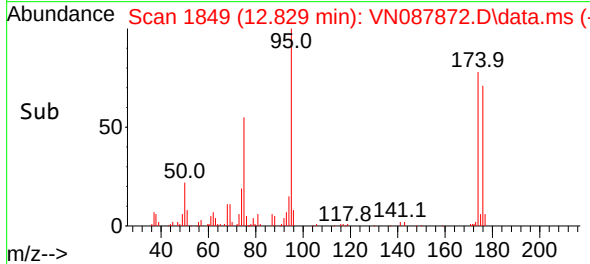
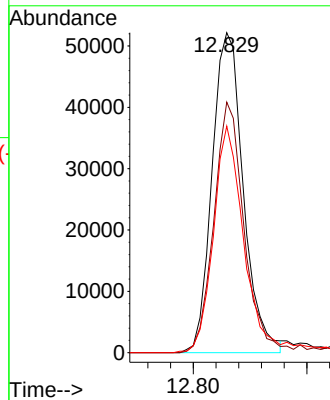
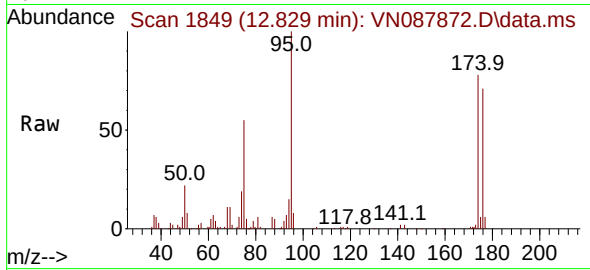




#60  
4-Bromofluorobenzene  
Concen: 26.390 ug/l  
RT: 12.829 min Scan# 1848  
Delta R.T. 0.000 min  
Lab File: VN087872.D  
Acq: 17 Sep 2025 12:03

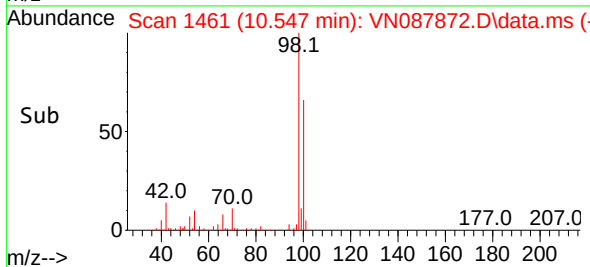
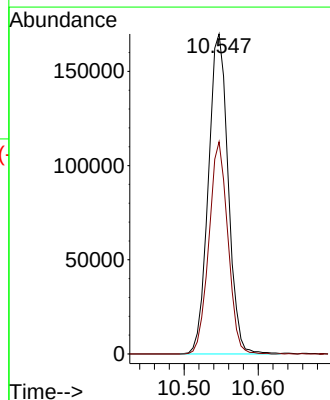
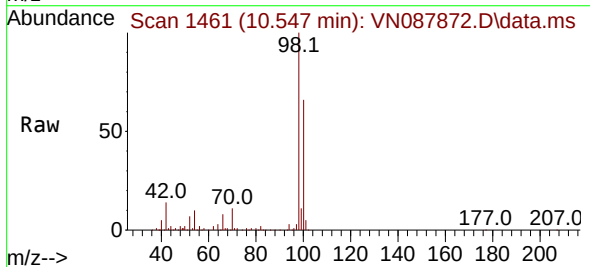
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBL01

| Tgt Ion:  | 95    | Resp: | 99589 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 75.3  | 55.4  | 83.0  |
| 176       | 70.4  | 51.5  | 77.3  |



#63  
Toluene-d8  
Concen: 28.898 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087872.D  
Acq: 17 Sep 2025 12:03

| Tgt Ion:  | 98    | Resp: | 315410 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 63.3  | 50.6  | 76.0   |



### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBS01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBS01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087870.D        | 1         | 09/17/25 10:55 | VN091725      |

| CAS Number     | Parameter                | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                          |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane  | 20.2  |           | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane            | 16.7  |           | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride           | 16.9  |           | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane             | 15.0  |           | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane             | 15.8  |           | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane   | 18.3  |           | 0.80 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene       | 18.2  |           | 0.76 | 5.00       | ug/L  |
| 107-02-8       | Acrolein                 | 120   |           | 6.60 | 25.0       | ug/L  |
| 107-13-1       | Acrylonitrile            | 98.6  |           | 2.80 | 25.0       | ug/L  |
| 67-64-1        | Acetone                  | 92.4  |           | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide         | 17.7  |           | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether  | 20.5  |           | 0.77 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride       | 19.7  |           | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene | 20.3  |           | 0.82 | 5.00       | ug/L  |
| 108-05-4       | Vinyl Acetate            | 85.6  |           | 3.20 | 25.0       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane       | 19.8  |           | 0.68 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone               | 94.9  |           | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride     | 19.6  |           | 0.74 | 5.00       | ug/L  |
| 594-20-7       | 2,2-Dichloropropane      | 20.8  |           | 0.66 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene   | 20.1  |           | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform               | 20.1  |           | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane    | 19.8  |           | 0.63 | 5.00       | ug/L  |
| 563-58-6       | 1,1-Dichloropropene      | 19.0  |           | 0.63 | 5.00       | ug/L  |
| 71-43-2        | Benzene                  | 18.8  |           | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane       | 18.6  |           | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene          | 20.2  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane      | 18.9  |           | 0.46 | 5.00       | ug/L  |
| 74-95-3        | Dibromomethane           | 18.4  |           | 0.59 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane     | 18.8  |           | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone     | 94.5  |           | 3.00 | 25.0       | ug/L  |



### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBS01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBS01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087870.D        | 1         | 09/17/25 10:55 | VN091725      |

| CAS Number  | Parameter                 | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|-------|-----------|------|------------|-------|
| 108-88-3    | Toluene                   | 19.6  |           | 0.46 | 5.00       | ug/L  |
| 10061-02-6  | t-1,3-Dichloropropene     | 18.4  |           | 0.72 | 5.00       | ug/L  |
| 10061-01-5  | cis-1,3-Dichloropropene   | 18.5  |           | 0.67 | 5.00       | ug/L  |
| 79-00-5     | 1,1,2-Trichloroethane     | 18.9  |           | 0.45 | 5.00       | ug/L  |
| 142-28-9    | 1,3-Dichloropropane       | 19.2  |           | 0.44 | 5.00       | ug/L  |
| 110-75-8    | 2-Chloroethyl vinyl ether | 83.8  |           | 4.60 | 25.0       | ug/L  |
| 591-78-6    | 2-Hexanone                | 92.4  |           | 3.20 | 25.0       | ug/L  |
| 124-48-1    | Dibromochloromethane      | 20.0  |           | 0.66 | 5.00       | ug/L  |
| 106-93-4    | 1,2-Dibromoethane         | 18.9  |           | 0.56 | 5.00       | ug/L  |
| 127-18-4    | Tetrachloroethene         | 22.6  |           | 0.84 | 5.00       | ug/L  |
| 108-90-7    | Chlorobenzene             | 20.7  |           | 0.47 | 5.00       | ug/L  |
| 630-20-6    | 1,1,1,2-Tetrachloroethane | 20.5  |           | 0.62 | 5.00       | ug/L  |
| 67-72-1     | Hexachloroethane          | 20.9  |           | 0.98 | 5.00       | ug/L  |
| 100-41-4    | Ethyl Benzene             | 20.2  |           | 0.56 | 5.00       | ug/L  |
| 179601-23-1 | m/p-Xylenes               | 40.8  |           | 1.30 | 10.0       | ug/L  |
| 1330-20-7   | Total Xylenes             | 61.0  |           | 1.97 | 15.0       | ug/L  |
| 95-47-6     | o-Xylene                  | 20.2  |           | 0.67 | 5.00       | ug/L  |
| 100-42-5    | Styrene                   | 19.5  |           | 0.72 | 5.00       | ug/L  |
| 75-25-2     | Bromoform                 | 20.2  |           | 0.94 | 5.00       | ug/L  |
| 98-82-8     | Isopropylbenzene          | 21.1  |           | 0.78 | 5.00       | ug/L  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 19.9  |           | 0.44 | 5.00       | ug/L  |
| 96-18-4     | 1,2,3-Trichloropropane    | 19.6  |           | 0.62 | 5.00       | ug/L  |
| 108-86-1    | Bromobenzene              | 20.5  |           | 0.59 | 5.00       | ug/L  |
| 103-65-1    | n-propylbenzene           | 20.7  |           | 0.67 | 5.00       | ug/L  |
| 95-49-8     | 2-Chlorotoluene           | 20.2  |           | 0.64 | 5.00       | ug/L  |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 20.6  |           | 0.59 | 5.00       | ug/L  |
| 106-43-4    | 4-Chlorotoluene           | 20.3  |           | 0.62 | 5.00       | ug/L  |
| 98-06-6     | tert-butylbenzene         | 21.8  |           | 0.71 | 5.00       | ug/L  |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 20.2  |           | 0.77 | 5.00       | ug/L  |
| 135-98-8    | sec-Butylbenzene          | 21.4  |           | 0.64 | 5.00       | ug/L  |
| 99-87-6     | p-Isopropyltoluene        | 22.1  |           | 0.70 | 5.00       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBS01                            |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBS01                            |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087870.D        | 1         | 09/17/25 10:55 | VN091725      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 541-73-1                  | 1,3-Dichlorobenzene         | 21.6   |           | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 21.7   |           | 0.81     | 5.00       | ug/L    |
| 104-51-8                  | n-Butylbenzene              | 22.0   |           | 0.82     | 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 | 20.0   |           | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 22.0   |           | 1.00     | 5.00       | ug/L    |
| 87-68-3                   | Hexachlorobutadiene         | 27.0   |           | 0.68     | 5.00       | ug/L    |
| 91-20-3                   | Naphthalene                 | 20.3   |           | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 22.0   |           | 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                  | 29.8   |           | 91 - 112 | 99%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 30.4   |           | 63 - 112 | 101%       | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 53500  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 296000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 269000 | 11.847    |          |            |         |
| 74-97-5                   | Bromochloromethane          | 53500  | 7.794     |          |            |         |

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\VN091725\  
 Data File : VN087870.D  
 Acq On : 17 Sep 2025 10:55  
 Operator : JC\MD  
 Sample : VN0917WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBS01

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:07:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 53476               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 296032              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 268776              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 137020              | 29.995  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.000% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 131390              | 30.402  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.333% |         |        |          |
| 63) Toluene-d8               | 10.541         | 98   | 372539              | 29.804  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.333%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 67104               | 20.190  | ug/l   | 98       |
| 3) Chloromethane             | 2.383          | 50   | 58286               | 16.706  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.536          | 62   | 66773               | 16.930  | ug/l   | 99       |
| 5) Bromomethane              | 2.977          | 94   | 34766               | 15.026  | ug/l   | 97       |
| 6) Chloroethane              | 3.136          | 64   | 42585               | 15.798  | ug/l # | 78       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 105691              | 18.282  | ug/l   | 90       |
| 8) Diethyl Ether             | 3.965          | 74   | 41183               | 16.870  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 60935m              | 19.460  | ug/l   |          |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 58764               | 18.203  | ug/l   | 88       |
| 11) Methyl Iodide            | 4.583          | 142  | 37791               | 16.537  | ug/l   | 82       |
| 12) Methyl Acetate           | 5.012          | 43   | 103303              | 20.758  | ug/l   | 96       |
| 13) Acrolein                 | 4.177          | 56   | 106235m             | 119.897 | ug/l   |          |
| 14) Acrylonitrile            | 5.706          | 53   | 211139              | 98.570  | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 61711               | 92.351  | ug/l   | 97       |
| 16) Carbon Disulfide         | 4.700          | 76   | 156918              | 17.704  | ug/l # | 91       |
| 17) Allyl chloride           | 5.006          | 41   | 103203              | 19.572  | ug/l   | 95       |
| 18) Methylene Chloride       | 5.259          | 84   | 72176m              | 19.737  | ug/l   |          |
| 19) trans-1,2-Dichloroethene | 5.771          | 96   | 66956               | 20.336  | ug/l   | 97       |
| 20) Diisopropyl ether        | 6.653          | 45   | 227741              | 18.782  | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 131509              | 19.805  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 80456               | 20.132  | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 76053               | 100.440 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.788          | 73   | 236800              | 20.546  | ug/l   | 100      |
| 25) Chloroform               | 7.947          | 83   | 139613              | 20.087  | ug/l   | 94       |
| 26) Cyclohexane              | 8.241          | 56   | 103429              | 20.453  | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 8.359          | 75   | 91361               | 18.990  | ug/l   | 97       |
| 30) 2-Butanone               | 7.465          | 43   | 314577              | 94.918  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 120804              | 20.830  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 120694              | 19.788  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 99548               | 19.574  | ug/l   | 97       |
| 34) Benzene                  | 8.588          | 78   | 291758              | 18.764  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.759          | 41   | 64671               | 18.655  | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 109196              | 18.592  | ug/l   | 100      |
| 37) Trichloroethene          | 9.335          | 130  | 70049               | 20.153  | ug/l   | 91       |
| 38) Methylcyclohexane        | 9.576          | 83   | 102865              | 19.418  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.606          | 63   | 75122               | 18.863  | ug/l   | 99       |
| 40) Dibromomethane           | 9.688          | 93   | 54595               | 18.421  | ug/l   | 95       |
| 41) Bromodichloromethane     | 9.871          | 83   | 114152              | 18.845  | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.588          | 43   | 948262              | 85.635  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087870.D  
 Acq On : 17 Sep 2025 10:55  
 Operator : JC\MD  
 Sample : VN0917WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBS01

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:07:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.541  | 43   | 119327   | 17.623  | ug/l   | 95       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 190975   | 17.991  | ug/l   | 97       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 25037    | 374.007 | ug/l # | 69       |
| 46) Methyl methacrylate       | 9.665  | 41   | 82471    | 16.855  | ug/l   | 92       |
| 47) n-amyl Acetate            | 12.559 | 43   | 102030m  | 14.223  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 116022   | 18.442  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 118981   | 18.464  | ug/l   | 91       |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 72265    | 18.879  | ug/l   | 94       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 106318   | 17.847  | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 127768   | 19.222  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.335 | 129  | 85737    | 19.976  | ug/l   | 92       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 75101    | 18.855  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 286029   | 83.801  | ug/l   | 97       |
| 56) Bromoform                 | 12.559 | 173  | 56526    | 20.167  | ug/l   | 97       |
| 58) 4-Methyl-2-Pentanone      | 10.423 | 43   | 600838   | 94.543  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.176 | 43   | 383551   | 92.361  | ug/l   | 96       |
| 61) Tetrachloroethene         | 11.082 | 164  | 60444    | 22.587  | ug/l   | 91       |
| 62) Toluene                   | 10.606 | 91   | 318841   | 19.612  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.870 | 112  | 206408   | 20.686  | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 72178    | 20.546  | ug/l   | 96       |
| 66) Ethyl Benzene             | 11.941 | 91   | 353748   | 20.169  | ug/l   | 91       |
| 67) m/p-Xylenes               | 12.047 | 106  | 265828   | 40.829  | ug/l   | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 127272   | 20.161  | ug/l   | 99       |
| 69) Styrene                   | 12.394 | 104  | 213549   | 19.464  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.676 | 105  | 337517   | 21.086  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 114652   | 19.925  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 111015m  | 19.649  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 80238    | 20.489  | ug/l   | 92       |
| 74) n-propylbenzene           | 13.012 | 91   | 418506   | 20.722  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 246028   | 20.240  | ug/l   | 96       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 279014   | 20.642  | ug/l   | 96       |
| 77) t-1,4-Dichloro-2-butene   | 12.723 | 75   | 36499    | 19.139  | ug/l   | 99       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 248882   | 20.310  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 246851   | 21.807  | ug/l   | 95       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 280072   | 20.211  | ug/l   | 96       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 357039   | 21.444  | ug/l   | 96       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 303705   | 22.138  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.711 | 146  | 162789   | 21.562  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 164451   | 21.731  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 290663   | 22.042  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.306 | 117  | 58197    | 20.885  | ug/l   | 93       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 154091   | 21.640  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 25535    | 19.996  | ug/l   | 88       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 88968    | 21.968  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 36715    | 27.042  | ug/l   | 93       |
| 91) Naphthalene               | 15.617 | 128  | 303214   | 20.336  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 88968    | 21.968  | ug/l   | 98       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087870.D  
 Acq On : 17 Sep 2025 10:55  
 Operator : JC\MD  
 Sample : VN0917WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

MSVOA\_N

## ClientSampleId :

VN0917WBS01

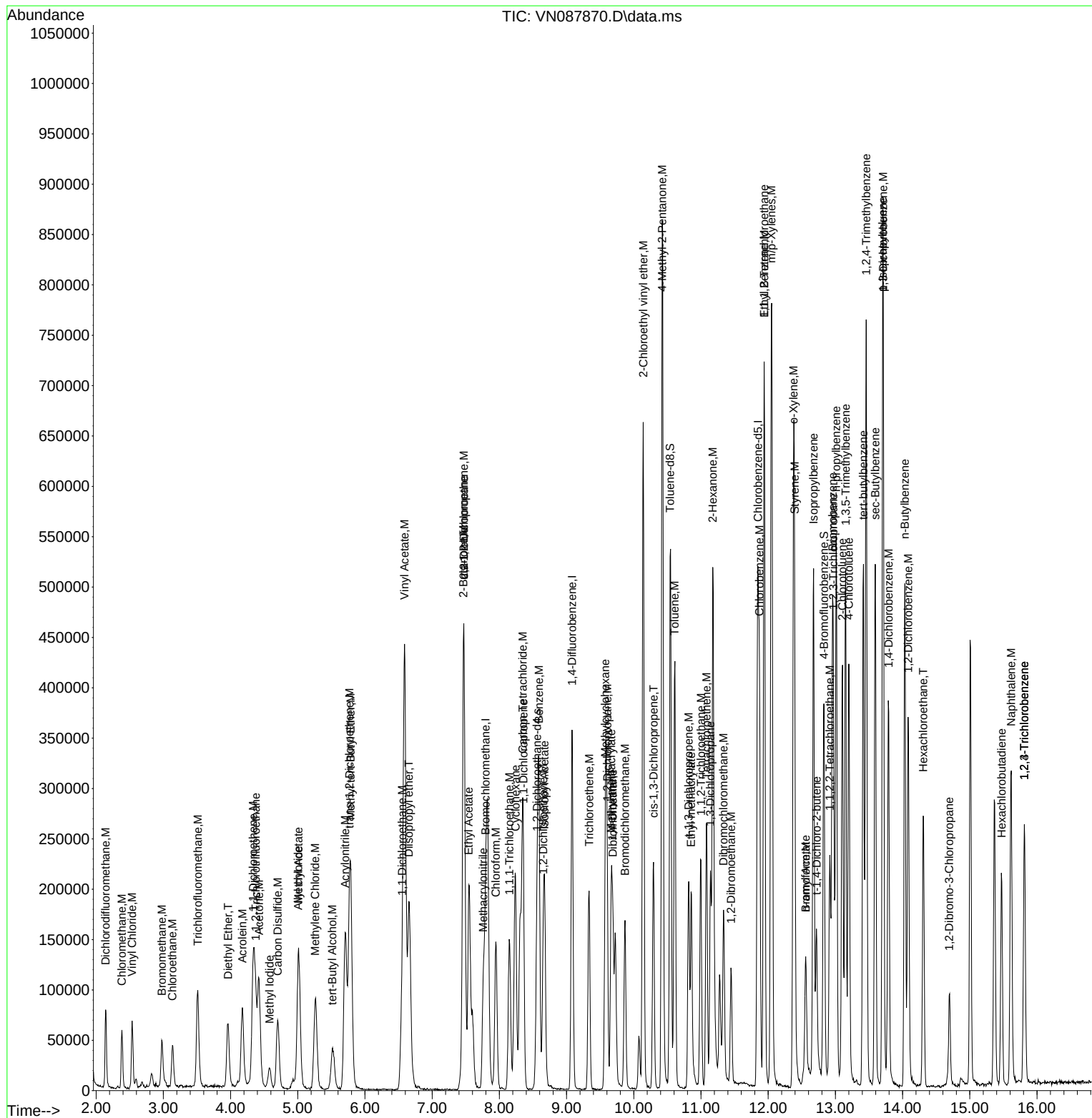
## Manual Integrations

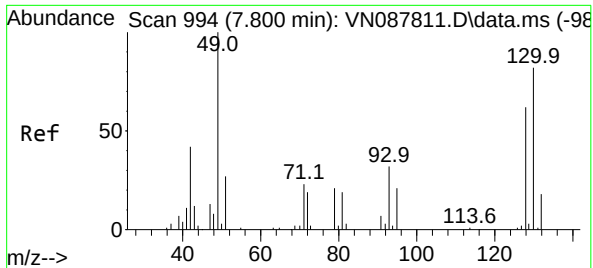
## APPROVED

Reviewed By : John Carlone 09/18/2025

Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:07:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration





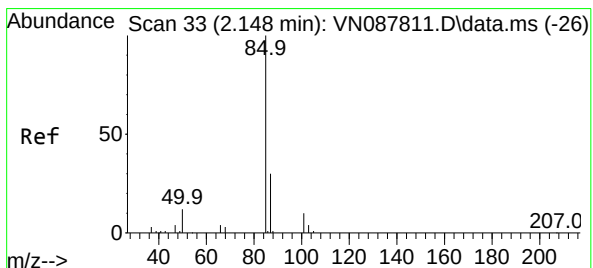
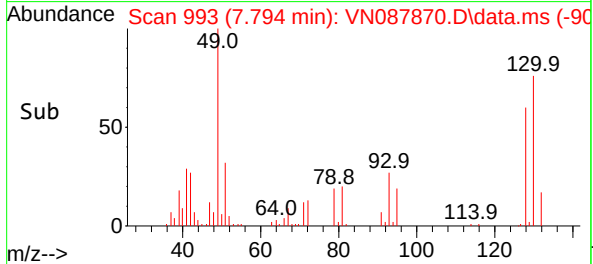
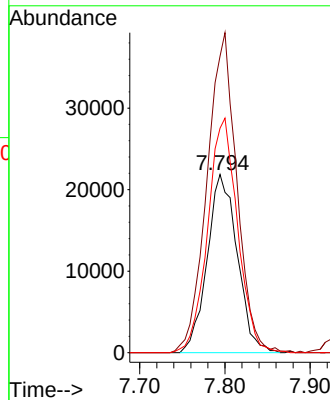
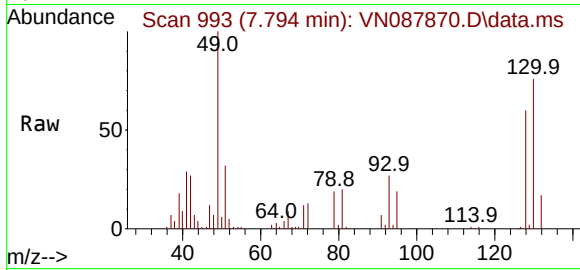
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 178.2 | 0.0   | 464.3 |
| 130     | 131.6 | 0.0   | 300.5 |

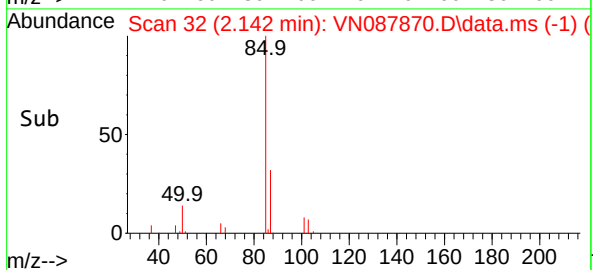
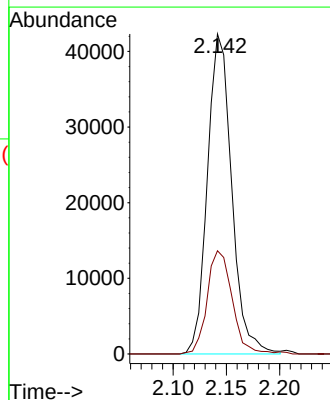
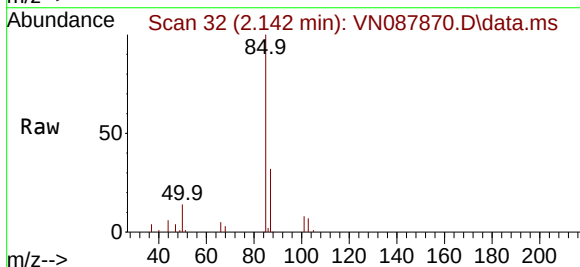
Manual Integrations  
APPROVED

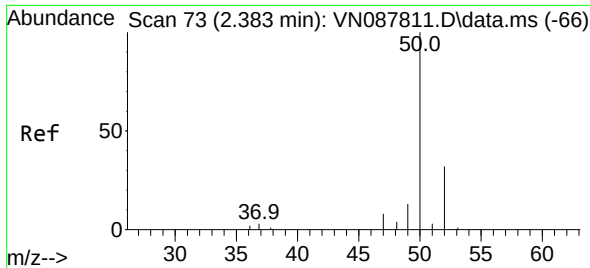
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#2  
Dichlorodifluoromethane  
Concen: 20.190 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.3  | 16.8  | 50.4  |





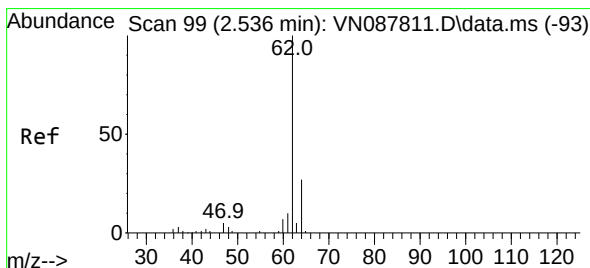
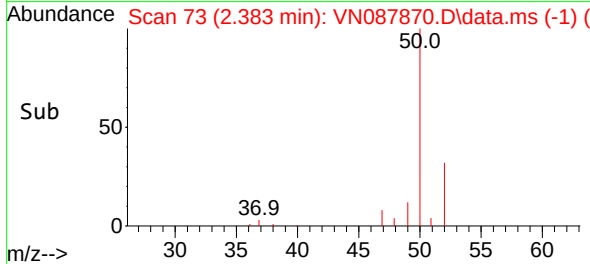
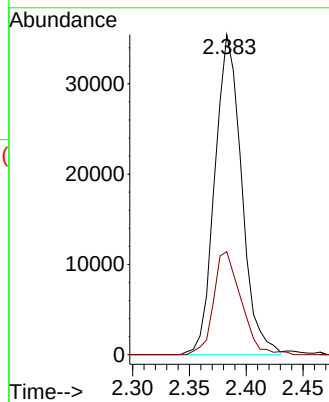
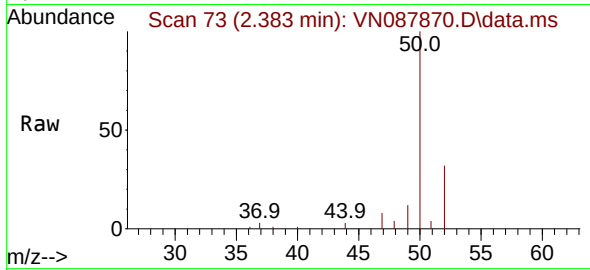
#3  
Chloromethane  
Concen: 16.706 ug/l  
RT: 2.383 min Scan# 73  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 50 Resp: 58280  
Ion Ratio Lower Upper  
50 100  
52 32.2 26.6 40.0

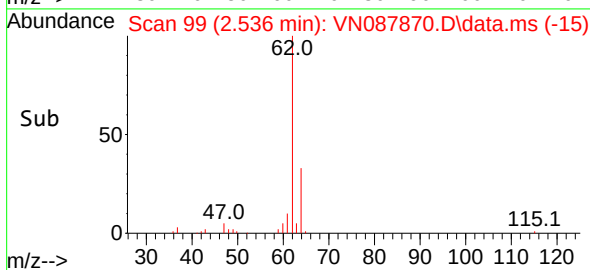
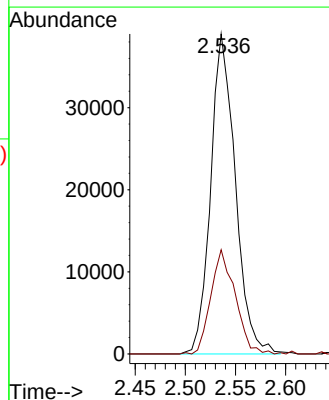
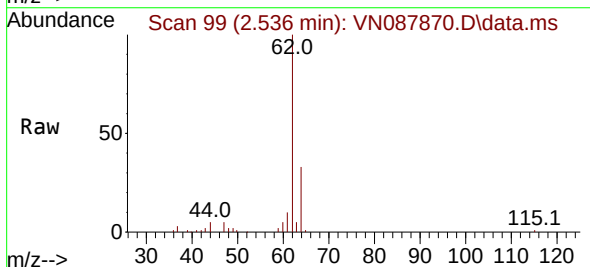
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

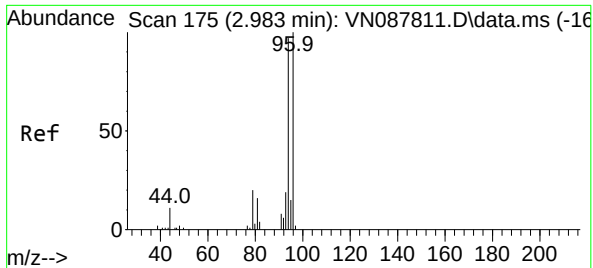


#4  
Vinyl Chloride  
Concen: 16.930 ug/l  
RT: 2.536 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 62 Resp: 66773  
Ion Ratio Lower Upper  
62 100  
64 32.6 25.5 38.3







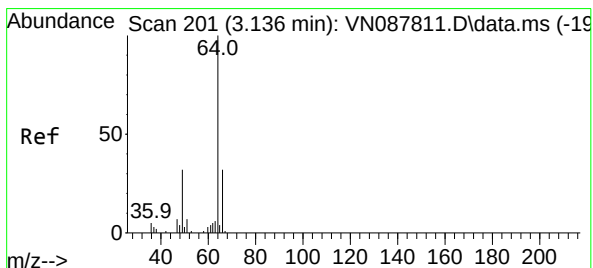
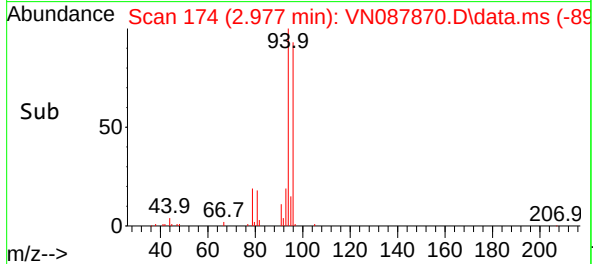
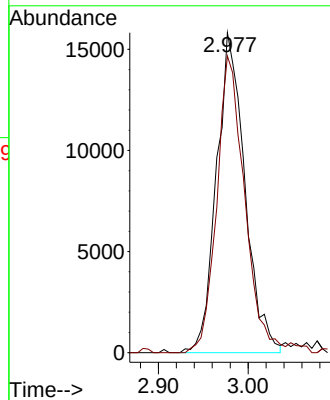
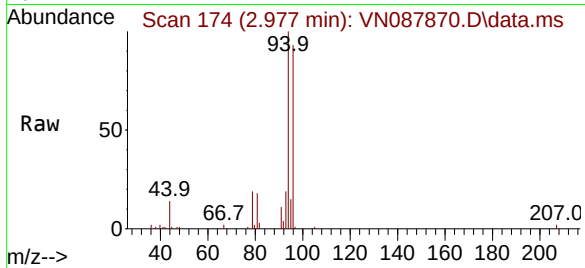
#5  
Bromomethane  
Concen: 15.026 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 94 Resp: 3476  
Ion Ratio Lower Upper  
94 100  
96 92.7 72.2 108.4

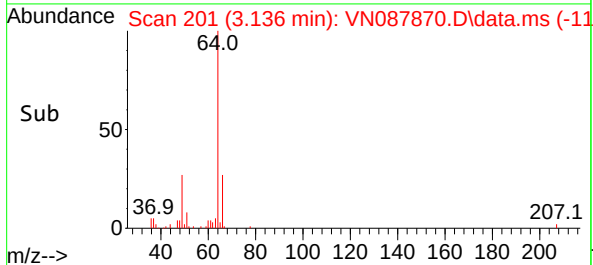
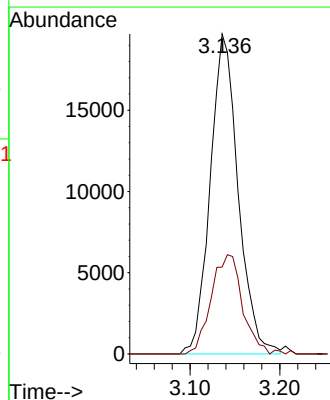
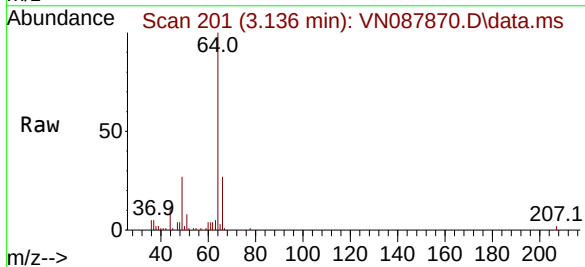
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

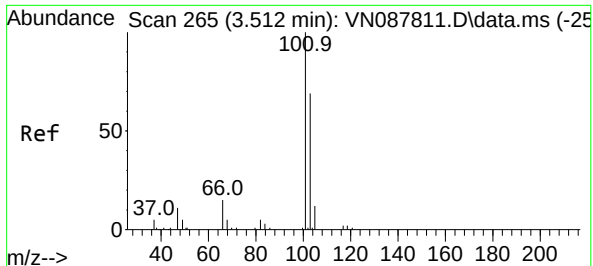


#6  
Chloroethane  
Concen: 15.798 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 64 Resp: 42585  
Ion Ratio Lower Upper  
64 100  
66 27.2 32.8 49.2#

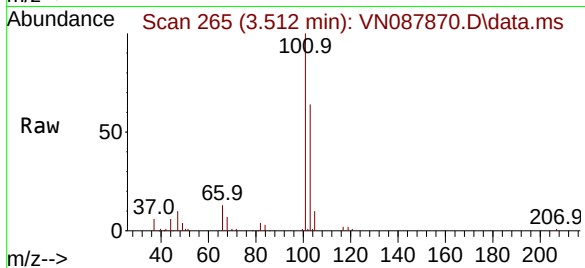






#7  
Trichlorofluoromethane  
Concen: 18.282 ug/l  
RT: 3.512 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

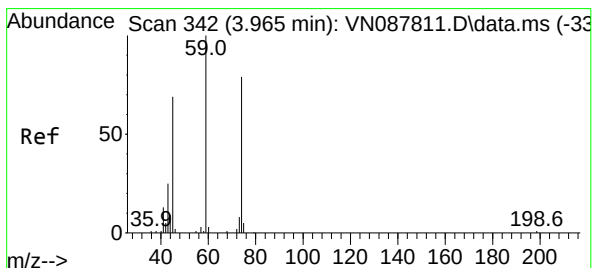
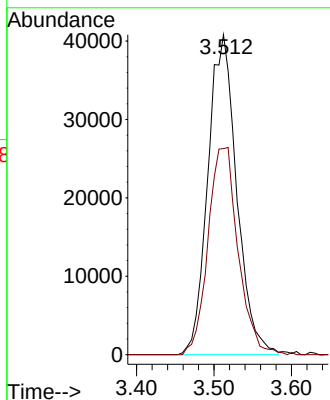
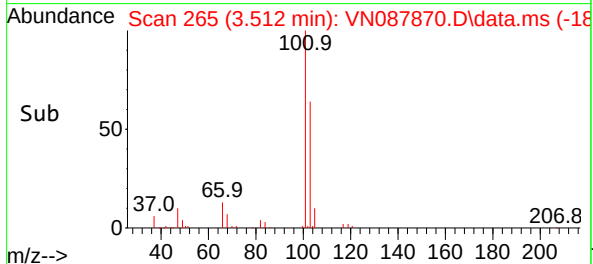
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 101 Resp: 10569  
Ion Ratio Lower Upper  
101 100  
103 64.4 45.7 68.5

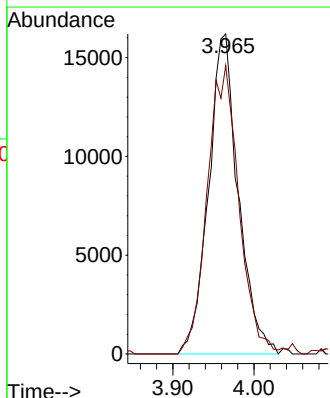
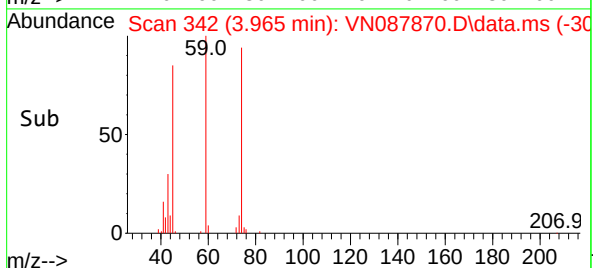
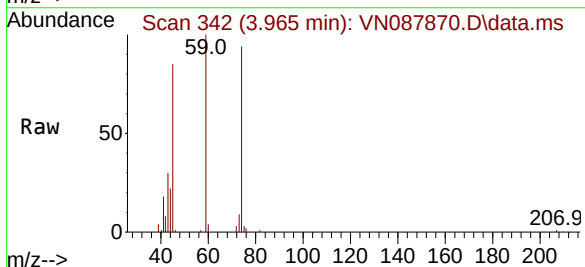
Manual Integrations  
APPROVED

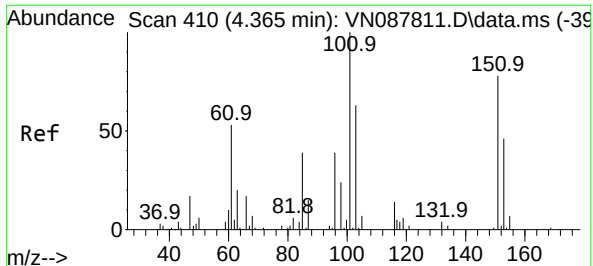
Reviewed By : John Carlone 09/18/2025  
Supervised By : Mahesh Dadoda 09/18/2025



#8  
Diethyl Ether  
Concen: 16.870 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.012 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 74 Resp: 41183  
Ion Ratio Lower Upper  
74 100  
45 95.1 20.4 183.8





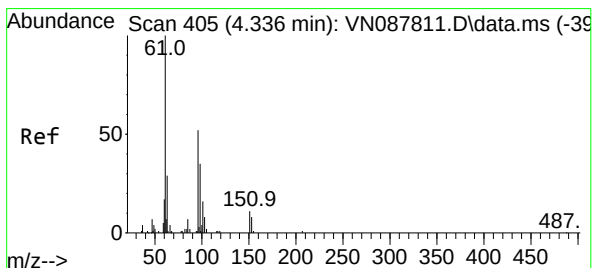
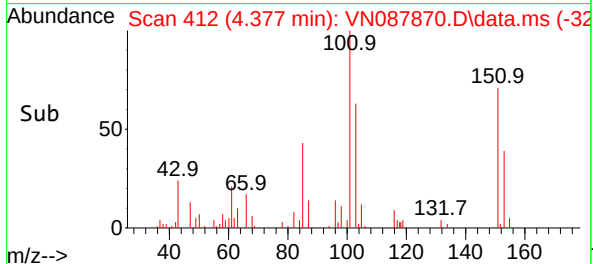
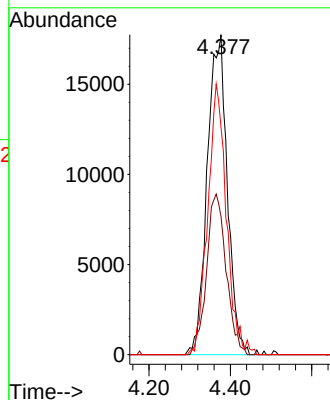
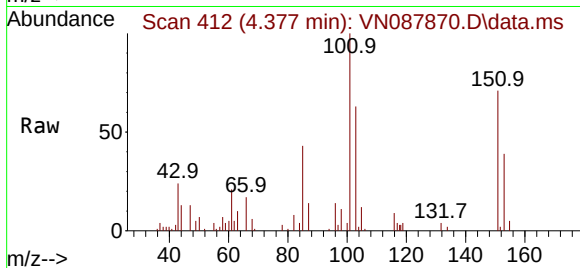
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 19.460 ug/l m  
RT: 4.377 min Scan# 410  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:101 Resp: 60935  
Ion Ratio Lower Upper  
101 100  
85 48.8 0.0 95.6  
151 77.0 0.0 85.8

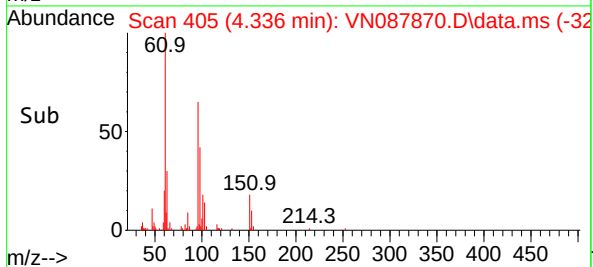
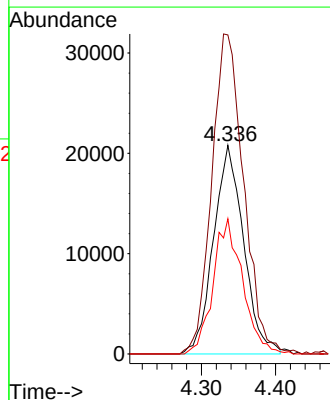
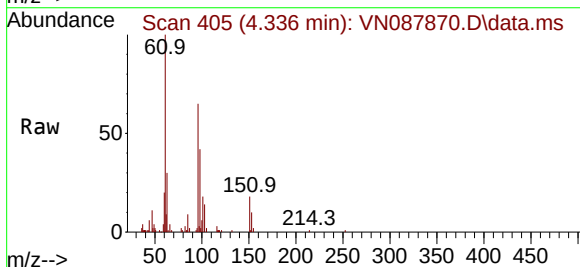
Manual Integrations  
APPROVED

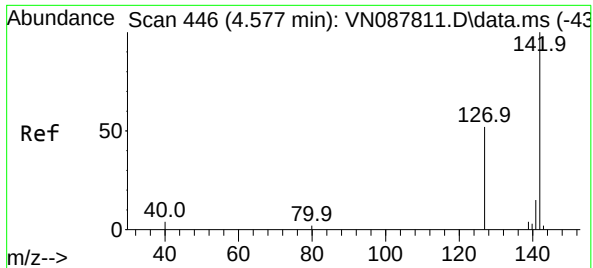
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#10  
1,1-Dichloroethene  
Concen: 18.203 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

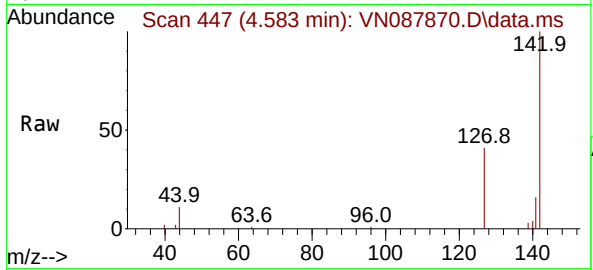
Tgt Ion: 96 Resp: 58764  
Ion Ratio Lower Upper  
96 100  
61 153.0 135.9 203.9  
98 64.8 59.2 88.8





#11  
Methyl Iodide  
Concen: 16.537 ug/l  
RT: 4.583 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

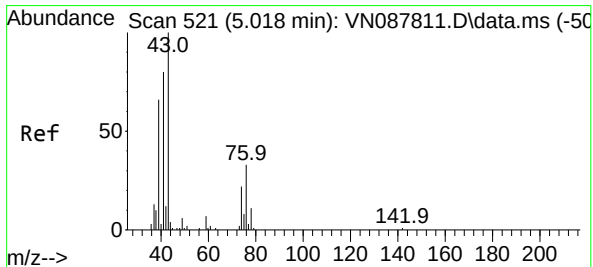
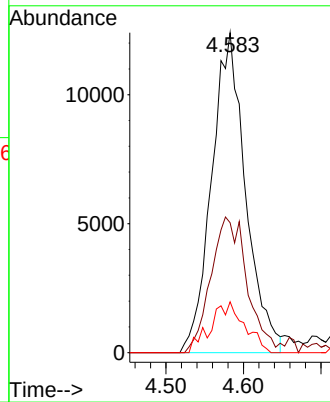
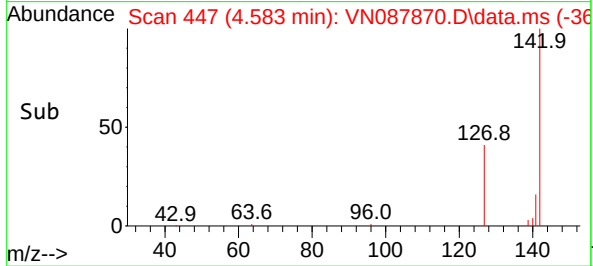
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion:142 Resp: 3779  
Ion Ratio Lower Upper  
142 100  
127 40.1 27.9 83.7  
141 16.3 9.6 28.8

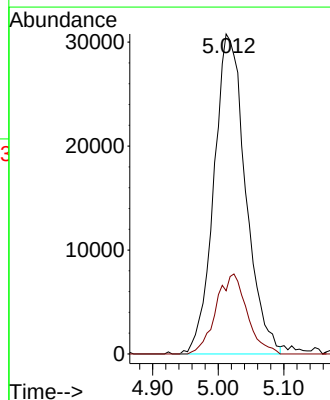
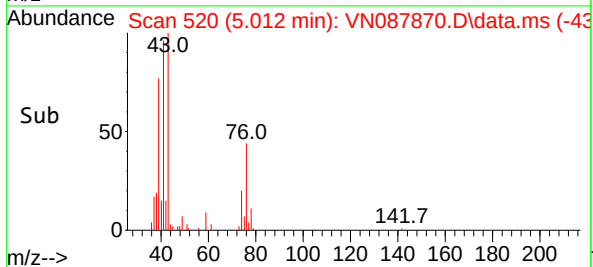
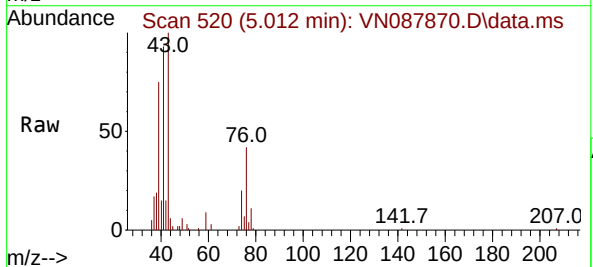
Manual Integrations  
APPROVED

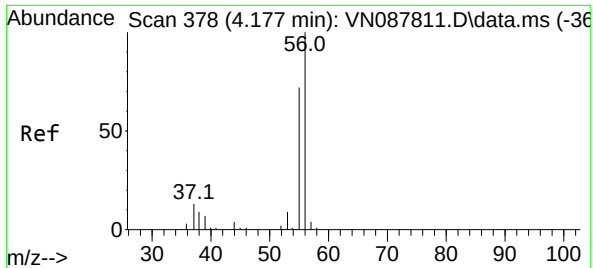
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#12  
Methyl Acetate  
Concen: 20.758 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 43 Resp: 103303  
Ion Ratio Lower Upper  
43 100  
74 20.0 17.5 26.3





#13

Acrolein

Concen: 119.897 ug/l m

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 56 Resp: 106239

Ion Ratio Lower Upper

56 100

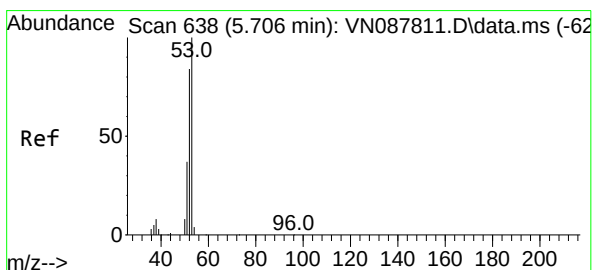
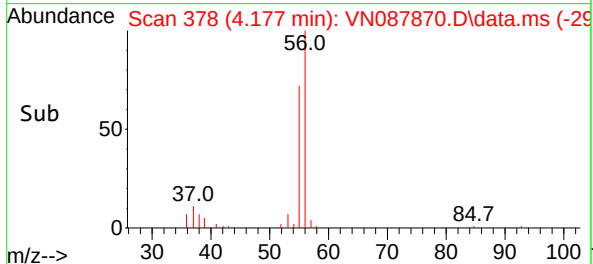
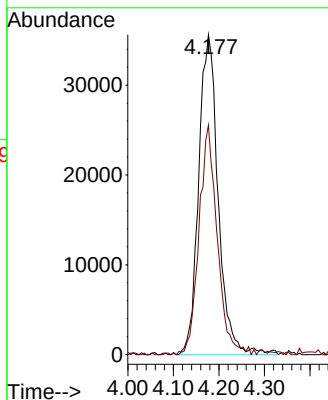
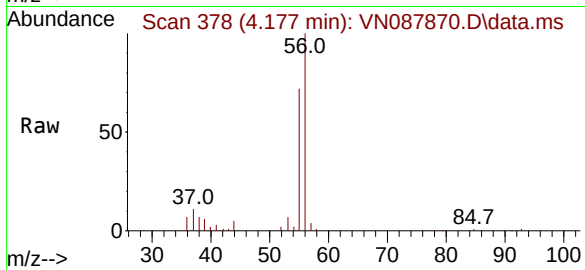
55 0.3 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Acrylonitrile

Concen: 98.570 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.012 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

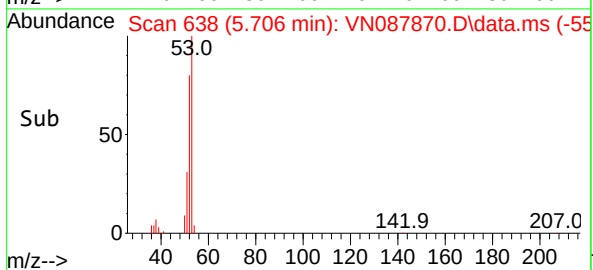
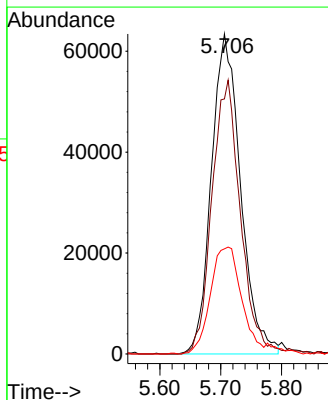
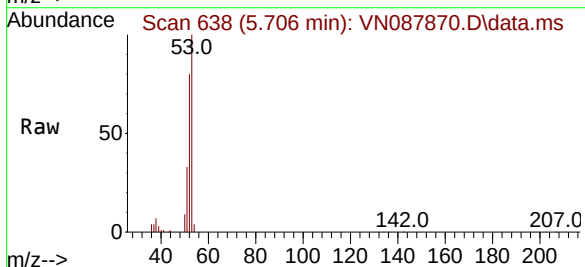
Tgt Ion: 53 Resp: 211139

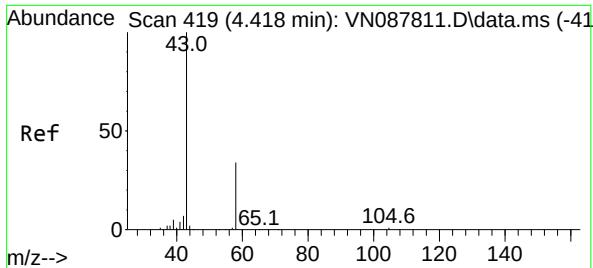
Ion Ratio Lower Upper

53 100

52 83.1 40.9 122.7

51 35.5 18.1 54.1





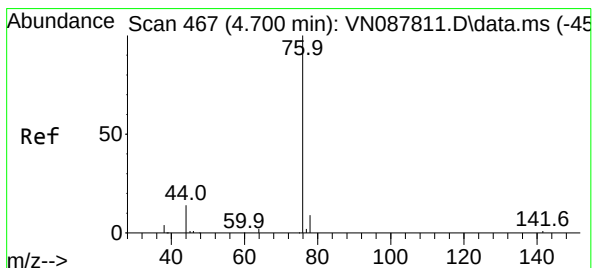
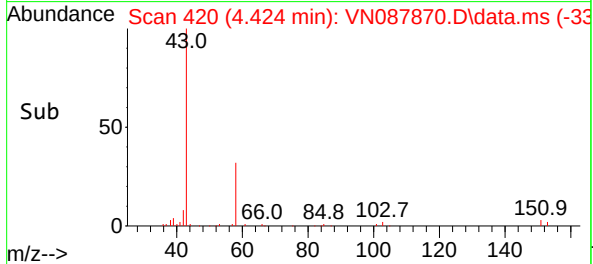
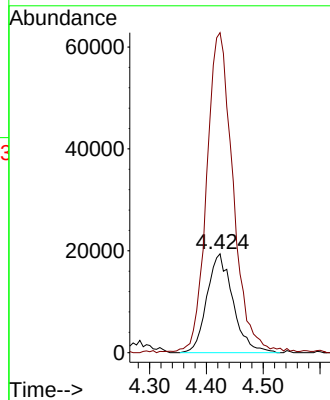
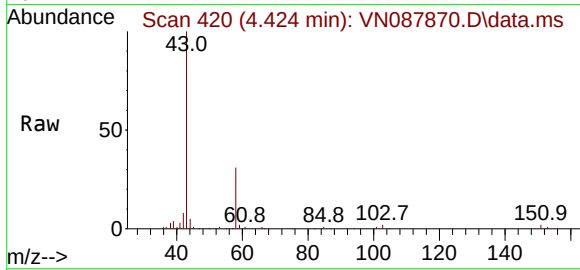
#15  
Acetone  
Concen: 92.351 ug/l  
RT: 4.424 min Scan# 419  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 58 Resp: 61711  
Ion Ratio Lower Upper  
58 100  
43 319.7 250.6 376.0

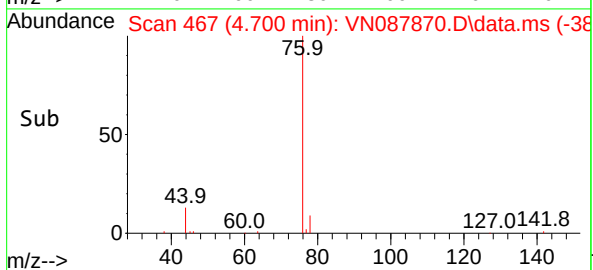
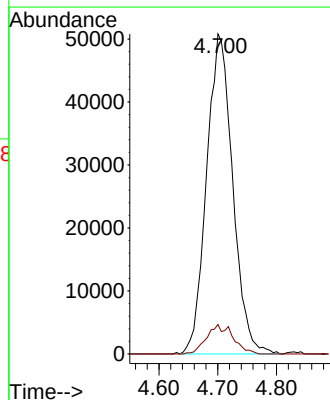
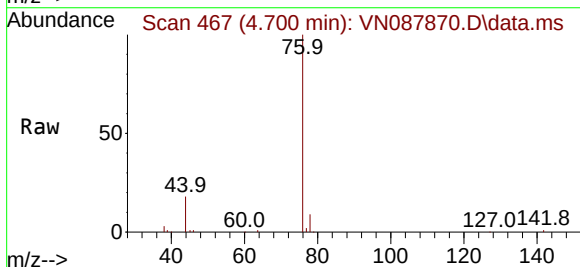
Manual Integrations  
APPROVED

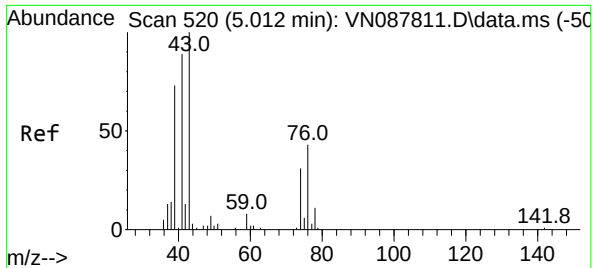
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#16  
Carbon Disulfide  
Concen: 17.704 ug/l  
RT: 4.700 min Scan# 467  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 76 Resp: 156918  
Ion Ratio Lower Upper  
76 100  
78 9.2 5.0 7.6#





#17

Allyl chloride

Concen: 19.572 ug/l

RT: 5.006 min Scan# 519

Delta R.T. -0.012 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 41 Resp: 10320

Ion Ratio Lower Upper

41 100

39 80.0 36.7 110.1

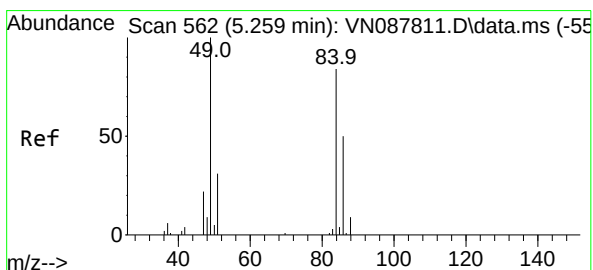
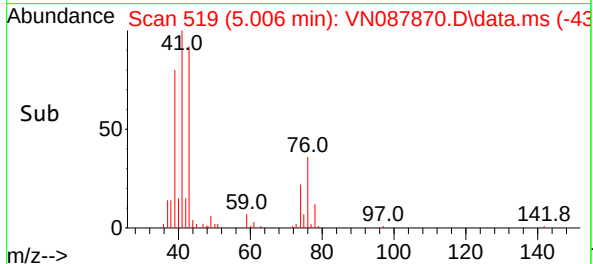
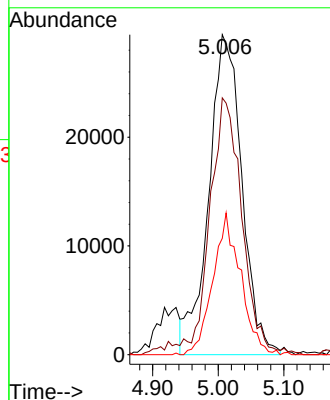
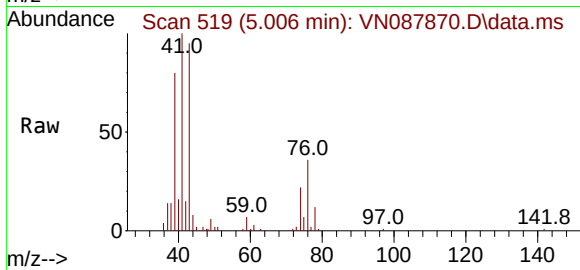
76 36.8 18.3 54.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methylene Chloride

Concen: 19.737 ug/l m

RT: 5.259 min Scan# 562

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Tgt Ion: 84 Resp: 72176

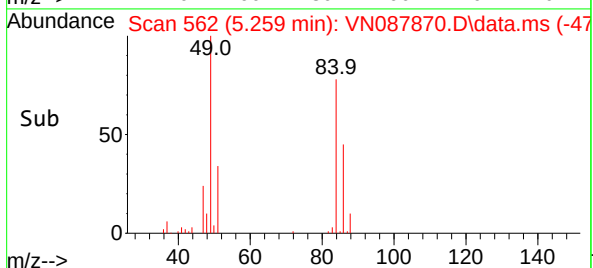
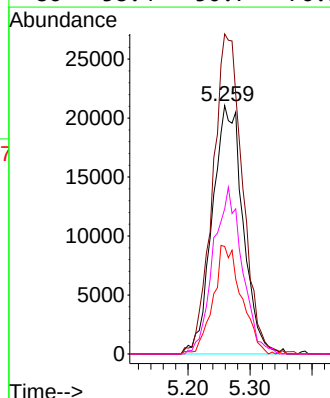
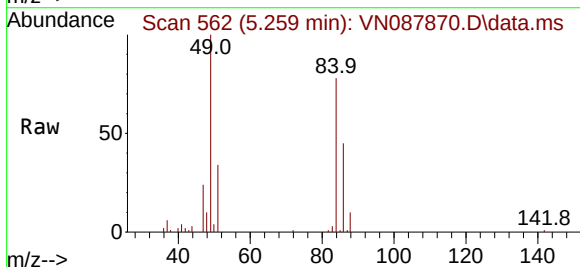
Ion Ratio Lower Upper

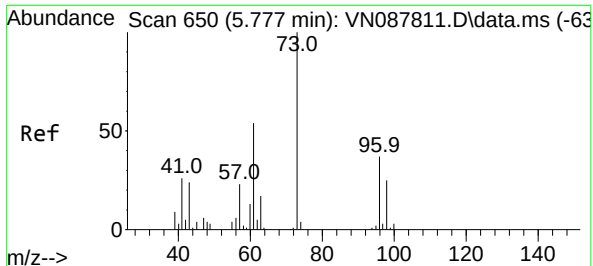
84 100

49 128.9 114.1 171.1

51 43.3 30.2 45.4

86 58.4 50.7 76.1





#19

trans-1,2-Dichloroethene

Concen: 20.336 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 96 Resp: 66950

Ion Ratio Lower Upper

96 100

61 129.7 106.4 159.6

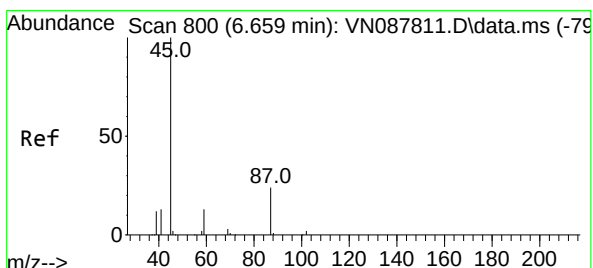
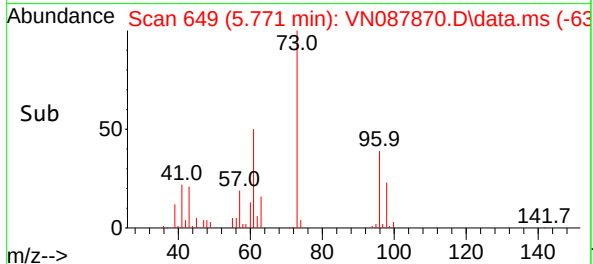
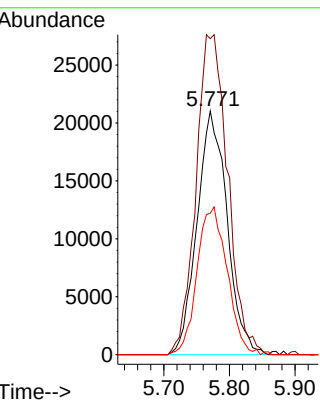
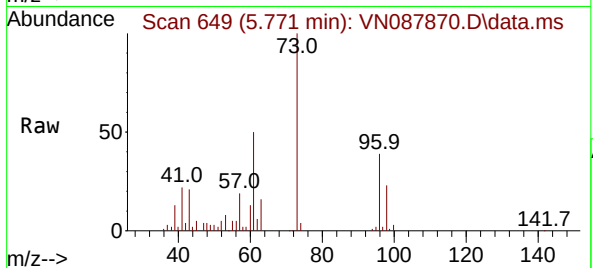
98 58.1 48.9 73.3

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Diisopropyl ether

Concen: 18.782 ug/l

RT: 6.653 min Scan# 799

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Tgt Ion: 45 Resp: 227741

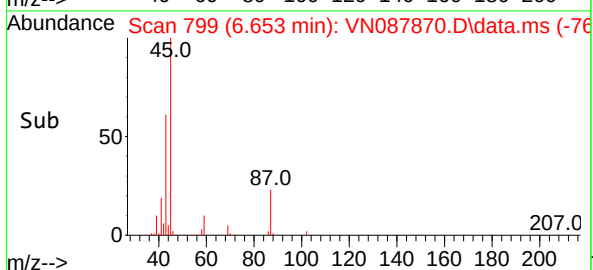
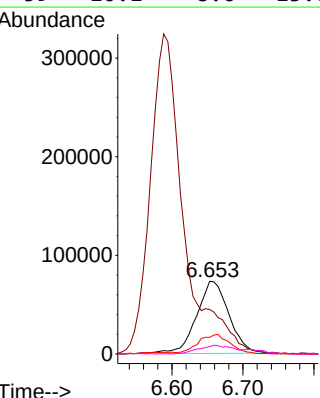
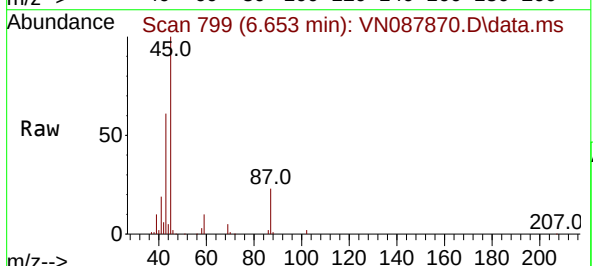
Ion Ratio Lower Upper

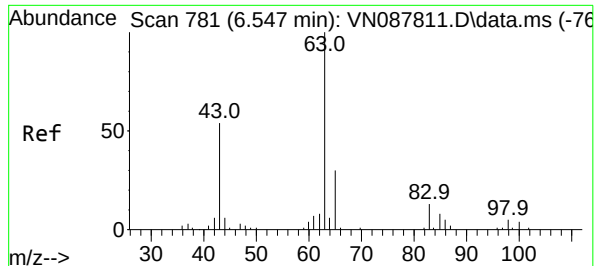
45 100

43 60.3 49.5 74.3

87 22.7 18.8 28.2

59 10.1 8.6 13.0





#21

1,1-Dichloroethane

Concen: 19.805 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 63 Resp: 131509

Ion Ratio Lower Upper

63 100

98 6.1 2.9 8.8

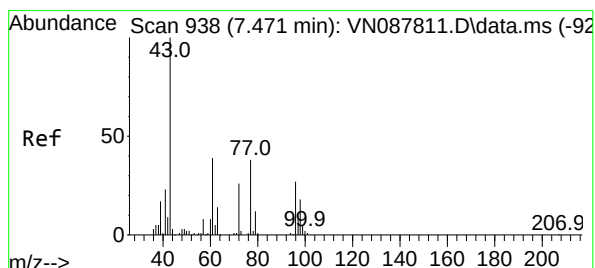
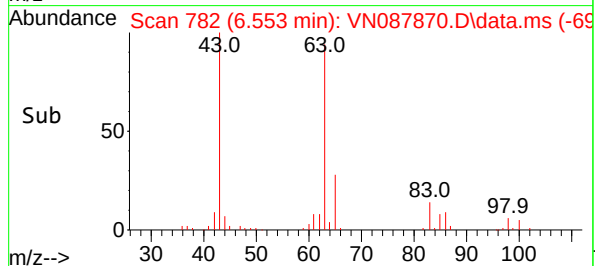
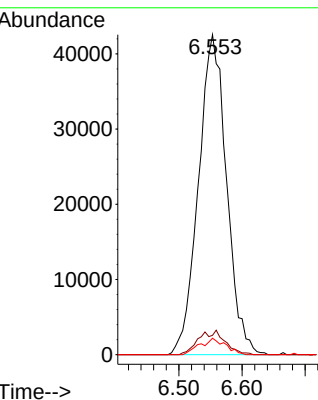
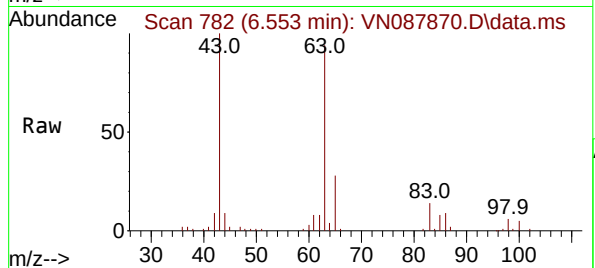
100 5.2 1.8 5.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

cis-1,2-Dichloroethene

Concen: 20.132 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

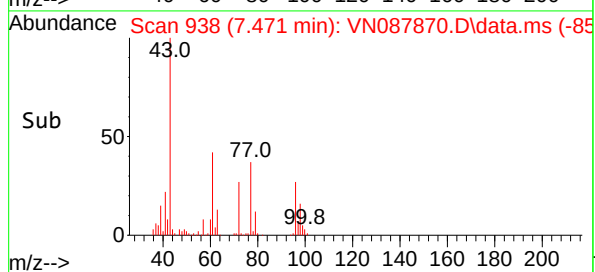
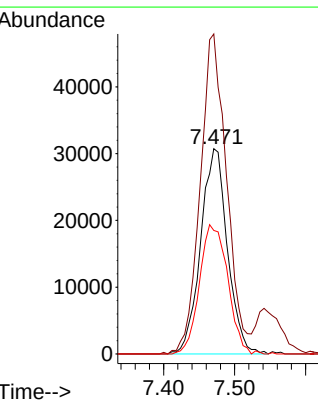
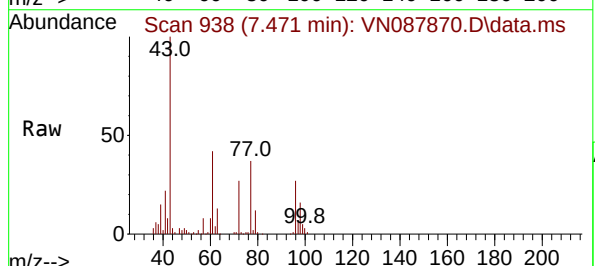
Tgt Ion: 96 Resp: 80456

Ion Ratio Lower Upper

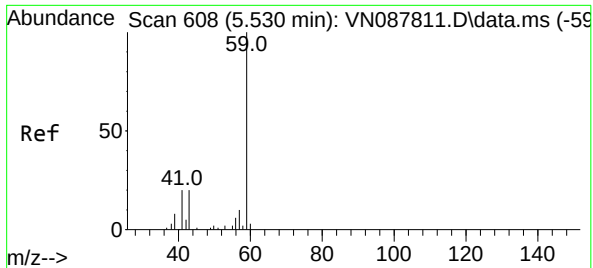
96 100

61 154.4 118.2 177.2

98 66.2 51.6 77.4







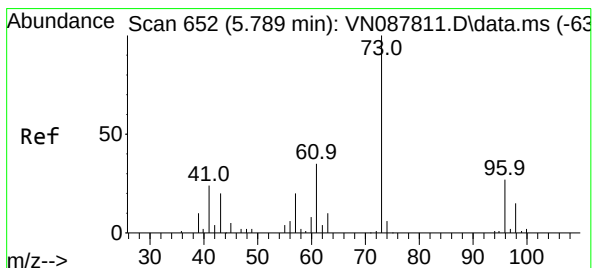
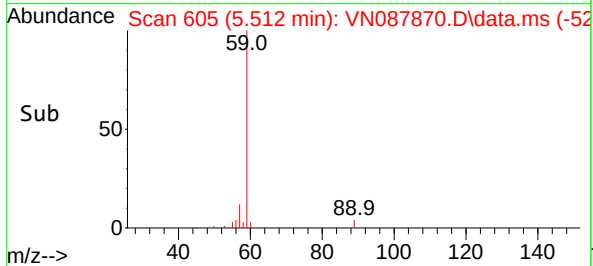
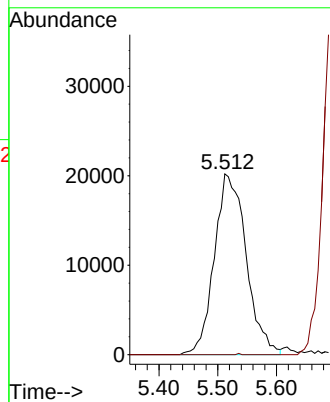
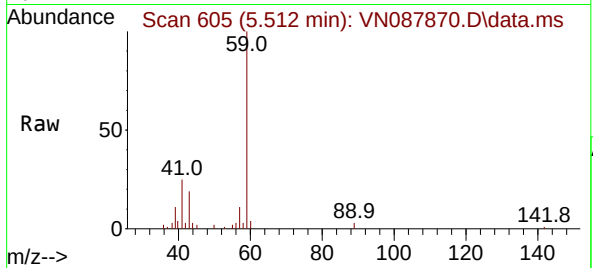
#23  
tert-Butyl Alcohol  
Concen: 100.440 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. -0.018 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 59 Resp: 7605  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

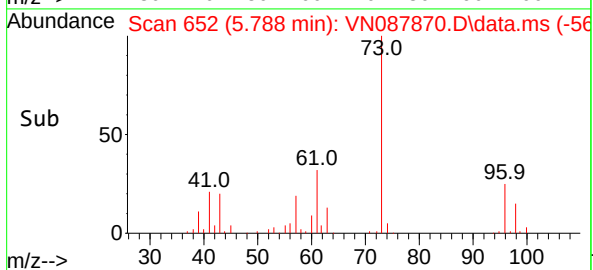
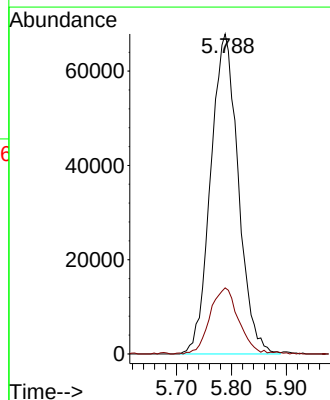
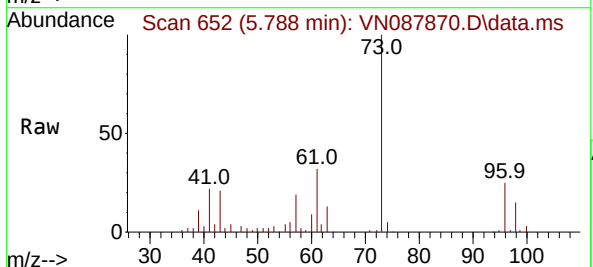
Manual Integrations  
APPROVED

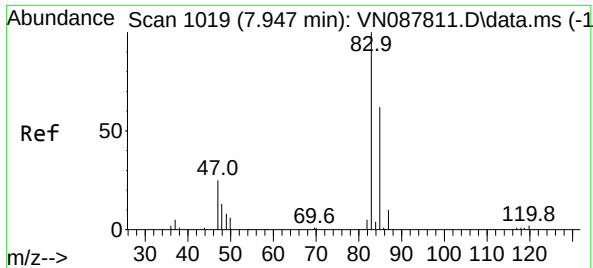
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#24  
Methyl tert-Butyl Ether  
Concen: 20.546 ug/l  
RT: 5.788 min Scan# 652  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 73 Resp: 236800  
Ion Ratio Lower Upper  
73 100  
43 21.2 16.8 25.2





#25

Chloroform

Concen: 20.087 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 83 Resp: 13961

Ion Ratio Lower Upper

83 100

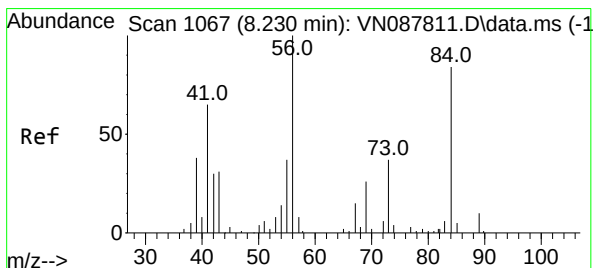
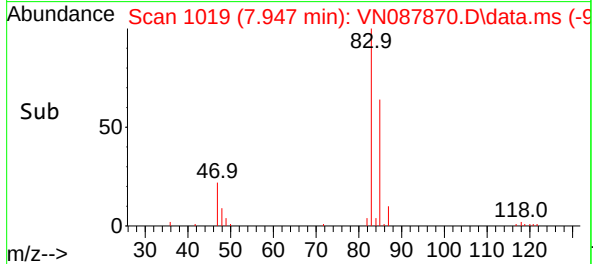
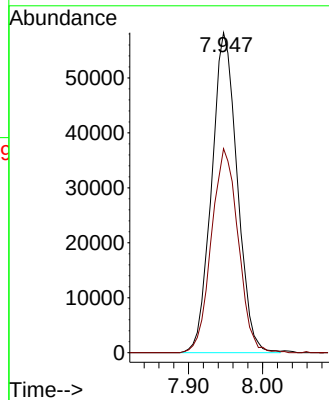
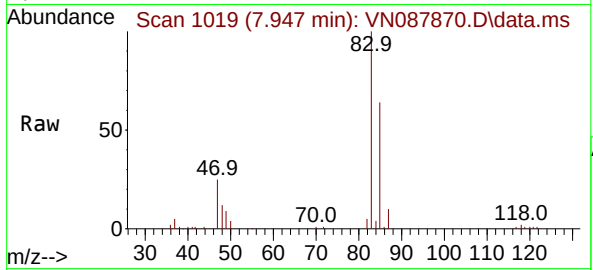
85 63.8 47.7 71.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

Cyclohexane

Concen: 20.453 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

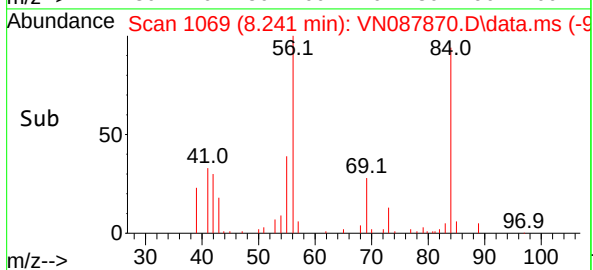
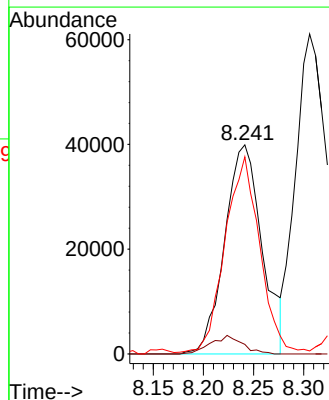
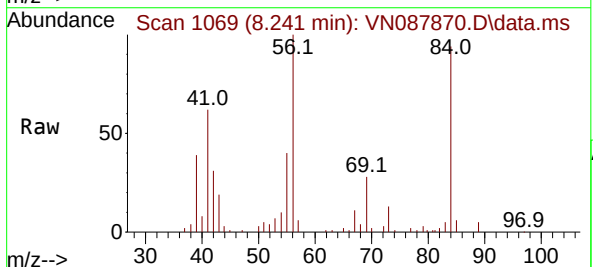
Tgt Ion: 56 Resp: 103429

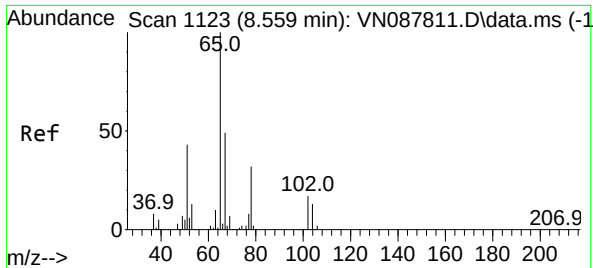
Ion Ratio Lower Upper

56 100

89 7.6 0.0 0.0#

84 88.7 69.4 104.2





#27

1,2-Dichloroethane-d4

Concen: 29.995 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 65 Resp: 137020

Ion Ratio Lower Upper

65 100

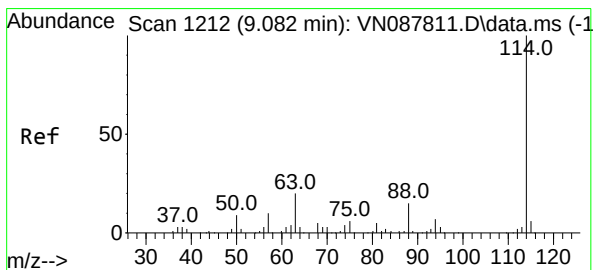
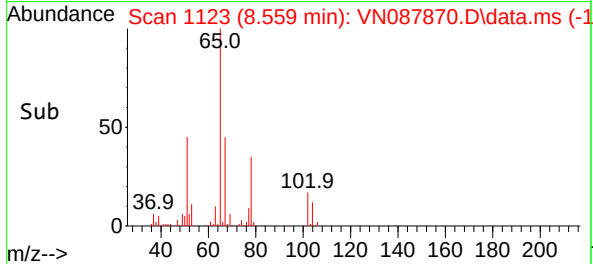
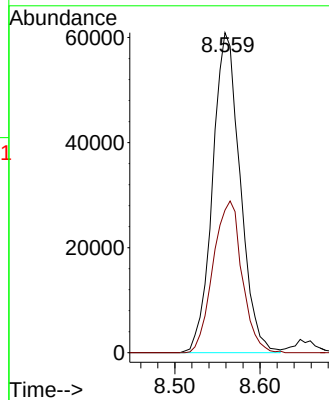
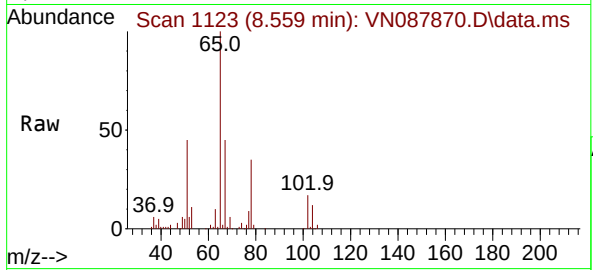
67 49.6 39.6 59.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

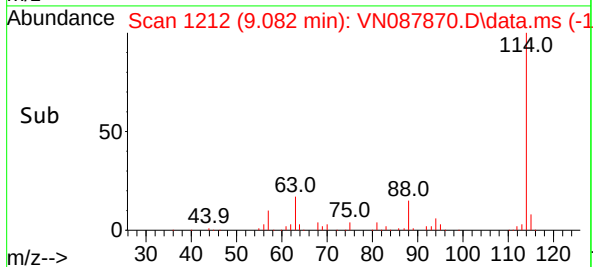
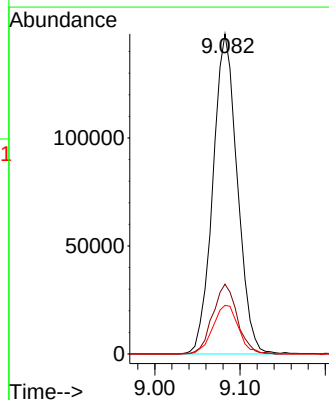
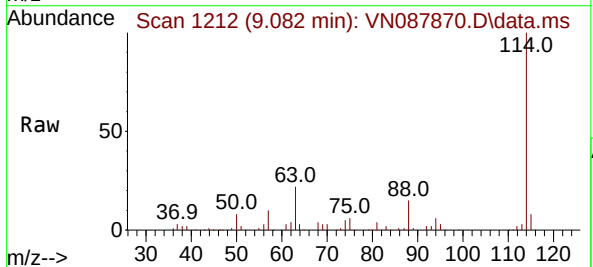
Tgt Ion:114 Resp: 296032

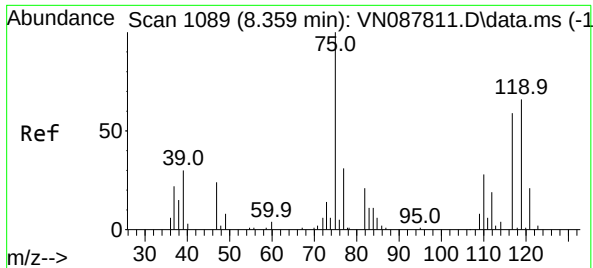
Ion Ratio Lower Upper

114 100

63 21.9 18.3 27.5

88 15.9 12.4 18.6





#29

1,1-Dichloropropene

Concen: 18.990 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 75 Resp: 9136

Ion Ratio Lower Upper

75 100

110 35.2 0.0 64.4

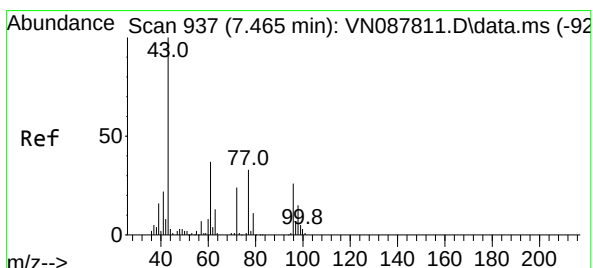
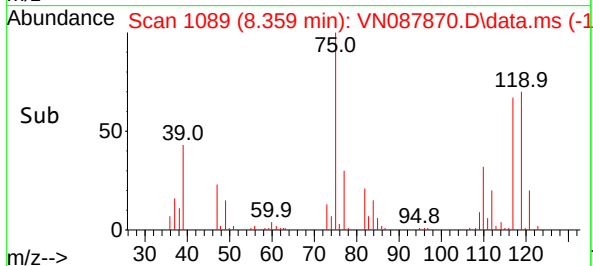
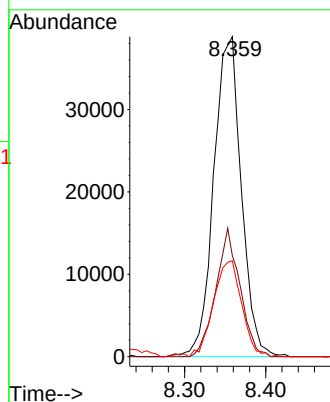
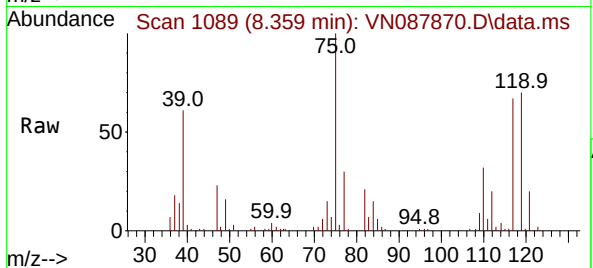
77 30.5 0.0 62.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

2-Butanone

Concen: 94.918 ug/l

RT: 7.465 min Scan# 937

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

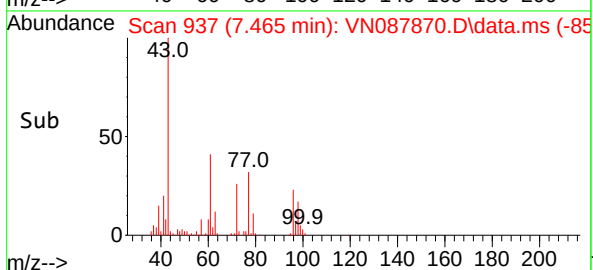
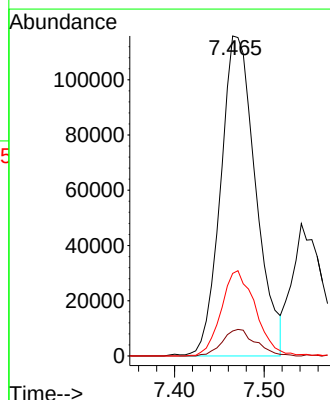
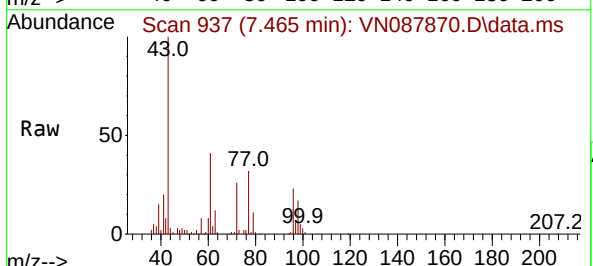
Tgt Ion: 43 Resp: 314577

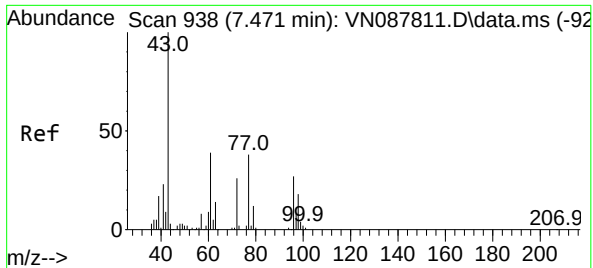
Ion Ratio Lower Upper

43 100

57 7.9 6.3 9.5

72 26.0 21.4 32.2





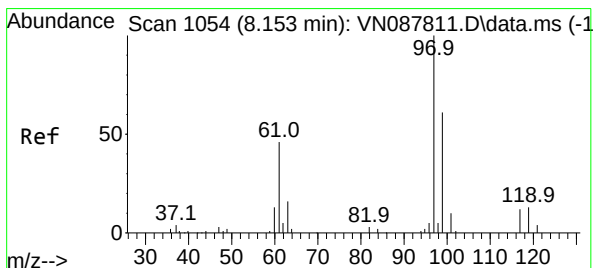
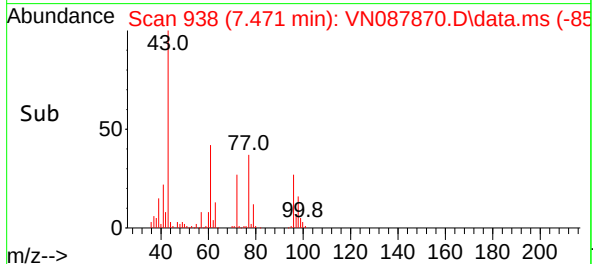
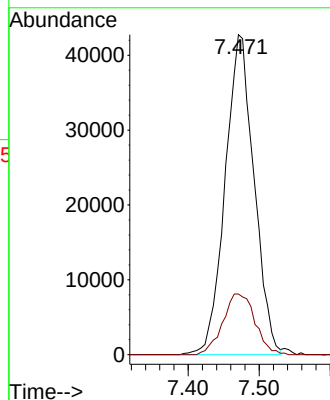
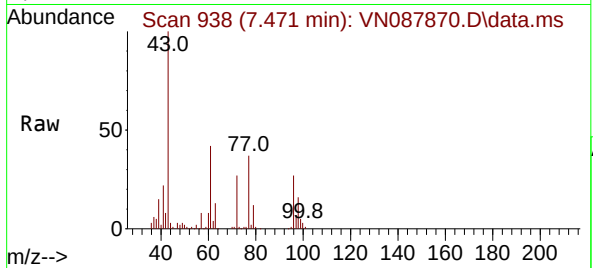
#31  
2,2-Dichloropropane  
Concen: 20.830 ug/l  
RT: 7.471 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 77 Resp: 120804  
Ion Ratio Lower Upper  
77 100  
97 21.2 17.1 25.7

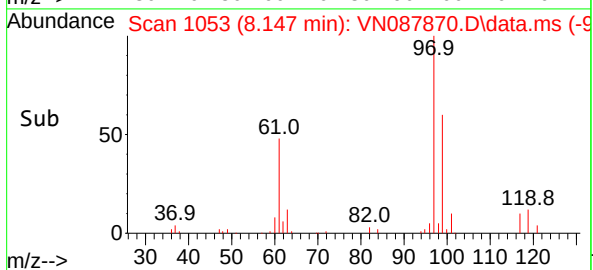
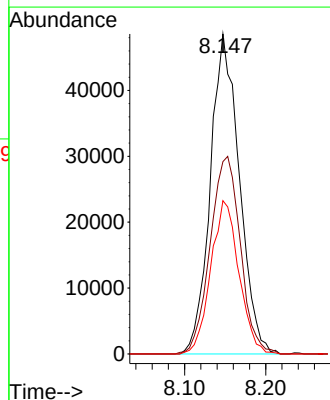
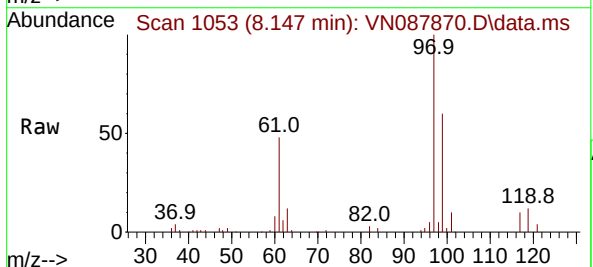
Manual Integrations  
APPROVED

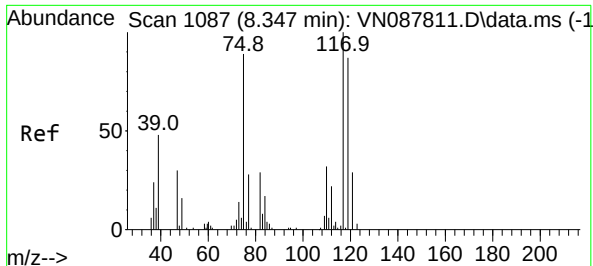
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#32  
1,1,1-Trichloroethane  
Concen: 19.788 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 97 Resp: 120694  
Ion Ratio Lower Upper  
97 100  
99 64.3 52.2 78.4  
61 46.4 37.9 56.9





#33

Carbon Tetrachloride

Concen: 19.574 ug/l

RT: 8.347 min Scan# 1087

Delta R.T. 0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion:117 Resp: 9954

Ion Ratio Lower Upper

117 100

119 95.1 77.3 115.9

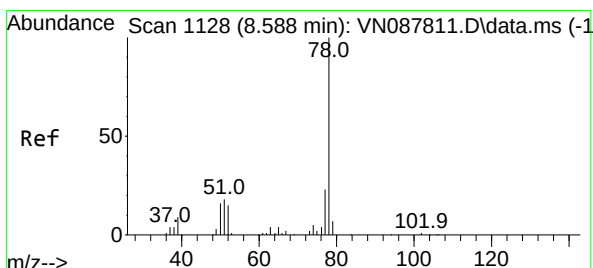
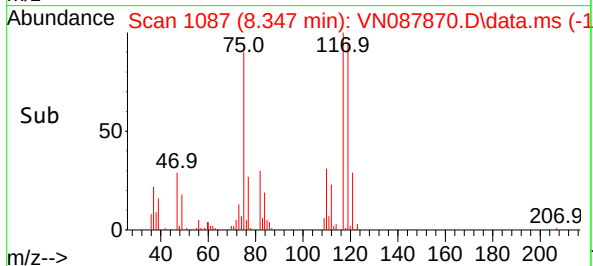
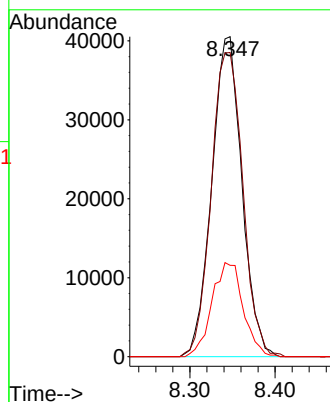
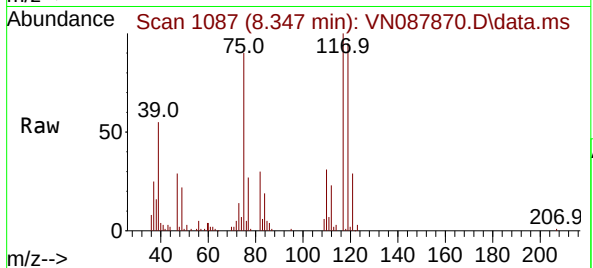
121 28.5 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

Benzene

Concen: 18.764 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

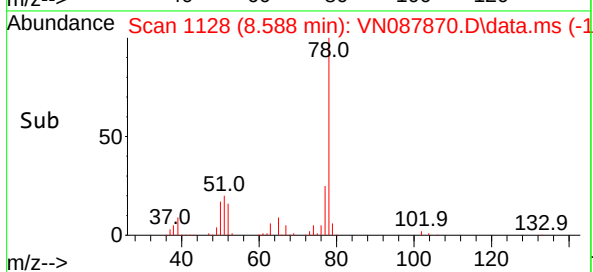
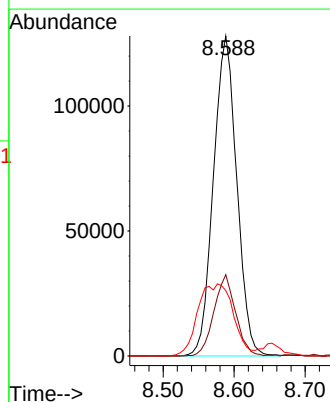
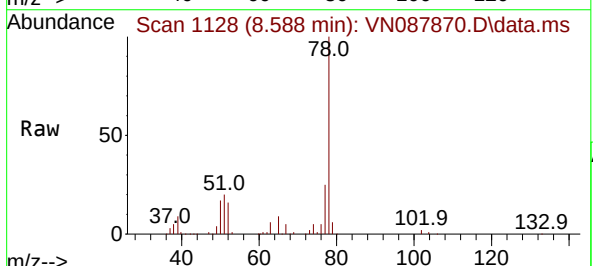
Tgt Ion: 78 Resp: 291758

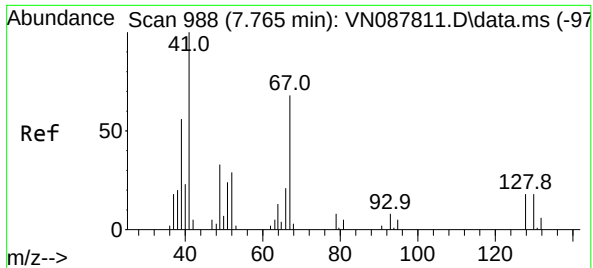
Ion Ratio Lower Upper

78 100

77 25.4 20.3 30.5

51 19.4 18.0 27.0





#35

Methacrylonitrile

Concen: 18.655 ug/l

RT: 7.759 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 41 Resp: 6467

Ion Ratio Lower Upper

41 100

39 57.4 27.1 81.2

67 68.8 32.1 96.5

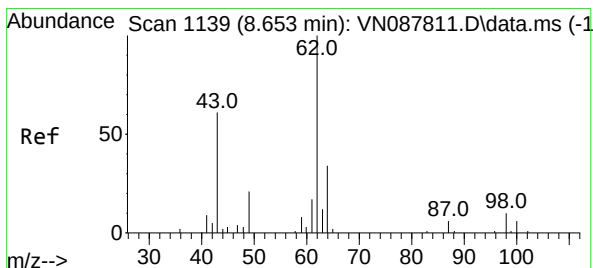
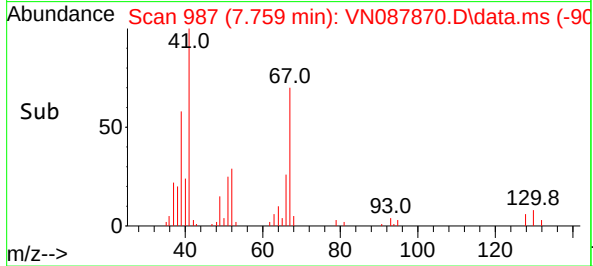
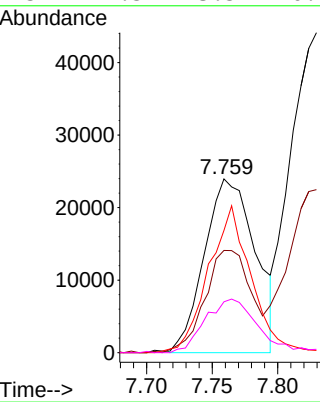
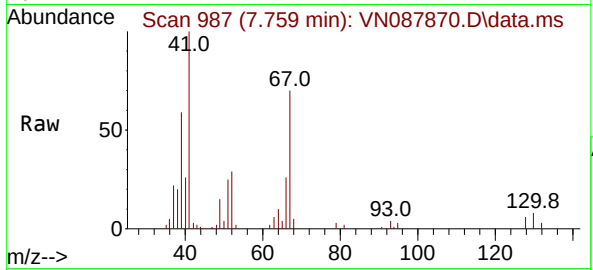
52 29.5 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,2-Dichloroethane

Concen: 18.592 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087870.D

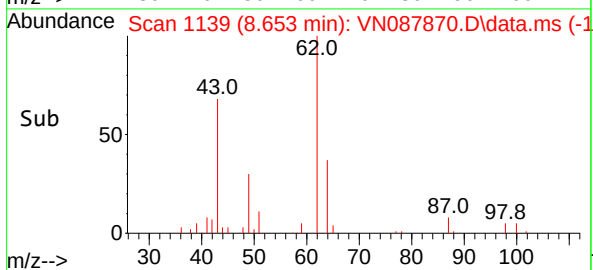
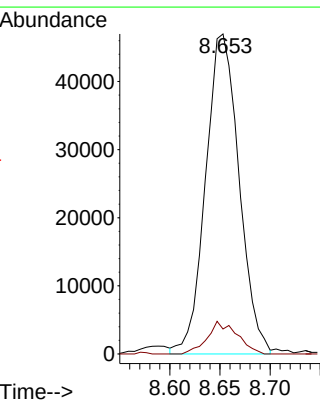
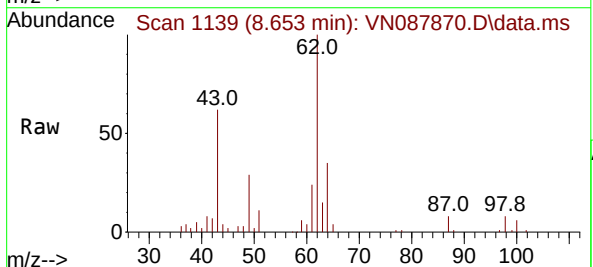
Acq: 17 Sep 2025 10:55

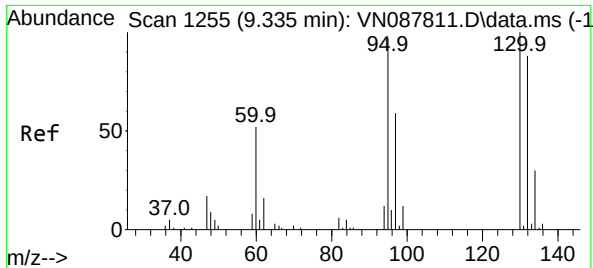
Tgt Ion: 62 Resp: 109196

Ion Ratio Lower Upper

62 100

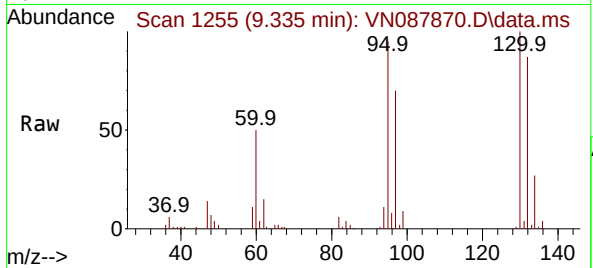
98 9.1 7.2 10.8





#37  
Trichloroethene  
Concen: 20.153 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

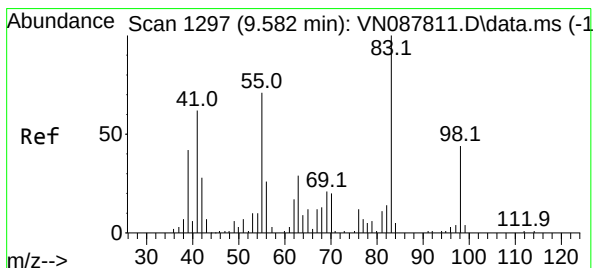
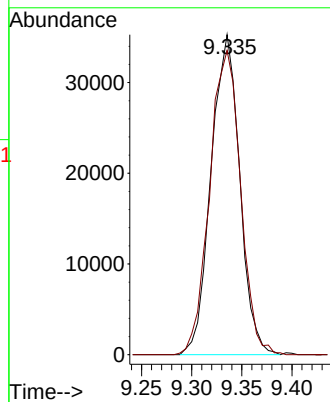
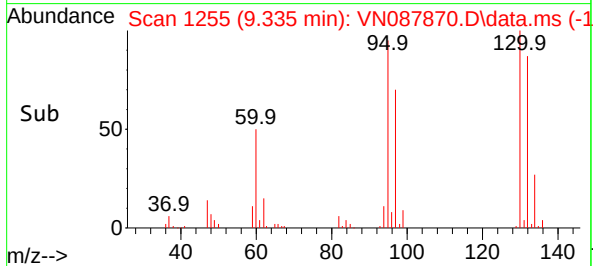
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



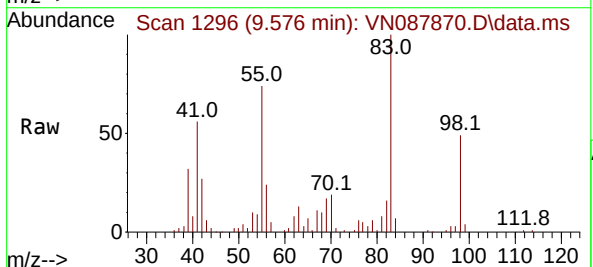
Tgt Ion:130 Resp: 70049  
Ion Ratio Lower Upper  
130 100  
95 94.6 82.7 124.1

Manual Integrations  
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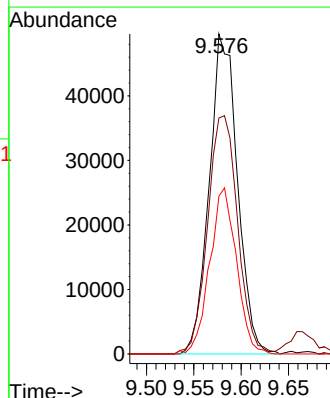
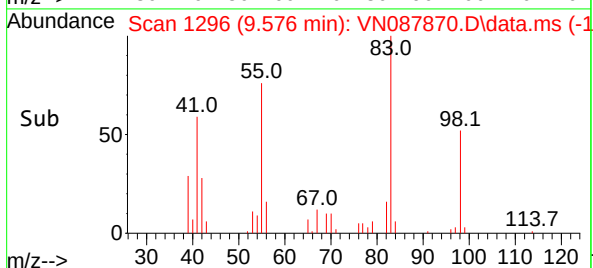
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



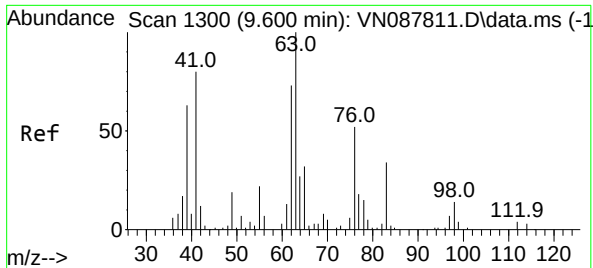
#38  
Methylcyclohexane  
Concen: 19.418 ug/l  
RT: 9.576 min Scan# 1296  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



Tgt Ion: 83 Resp: 102865  
Ion Ratio Lower Upper  
83 100  
55 79.2 40.4 121.1  
98 49.4 24.0 72.0







#39

1,2-Dichloropropane

Concen: 18.863 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. 0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 63 Resp: 7512

Ion Ratio Lower Upper

63 100

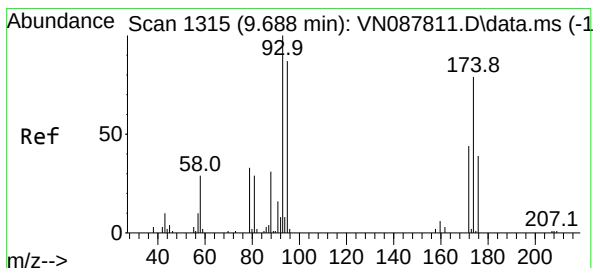
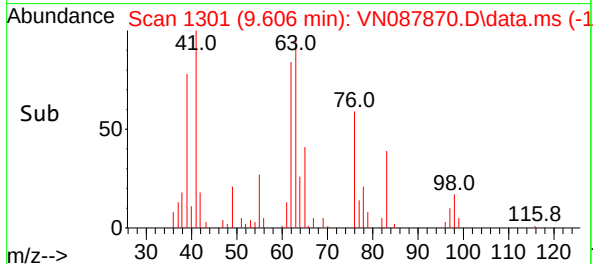
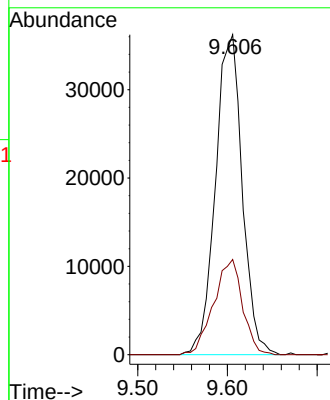
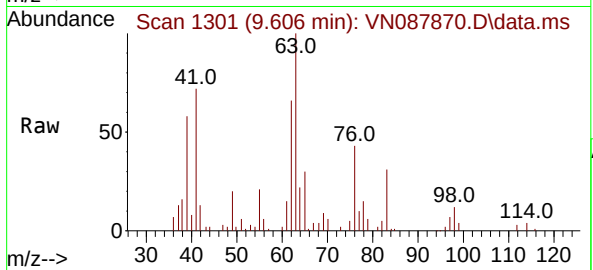
65 29.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Dibromomethane

Concen: 18.421 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

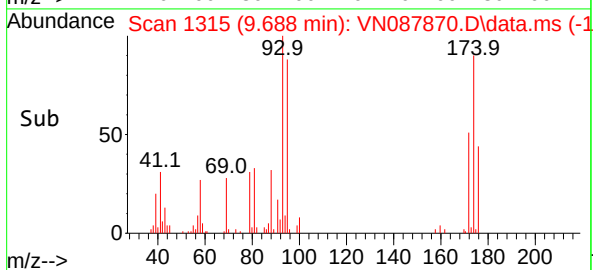
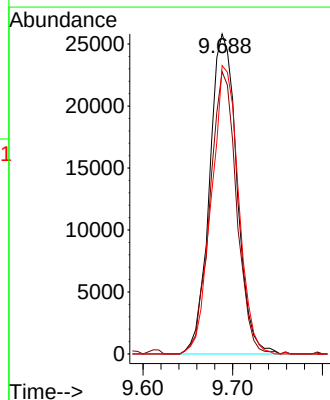
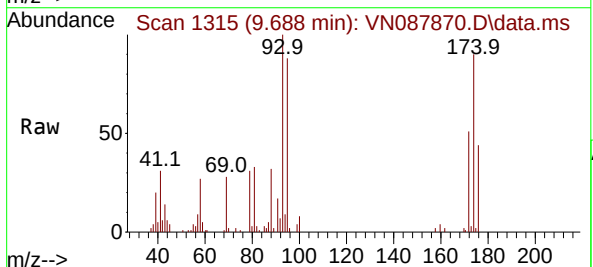
Tgt Ion: 93 Resp: 54595

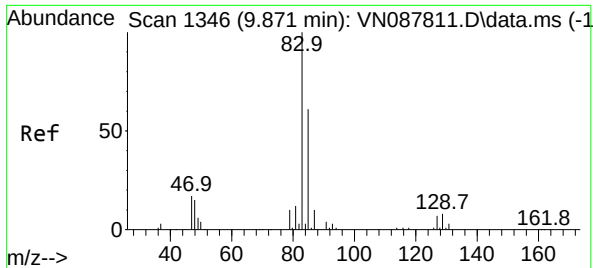
Ion Ratio Lower Upper

93 100

95 85.6 0.0 168.4

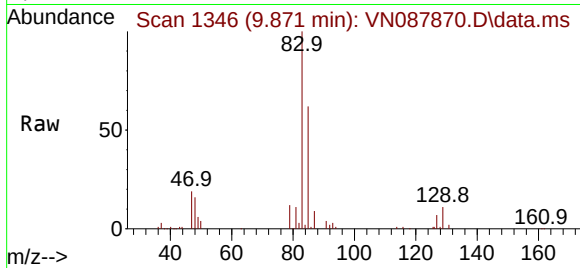
174 89.3 0.0 162.8





#41  
Bromodichloromethane  
Concen: 18.845 ug/l  
RT: 9.871 min Scan# 114152  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

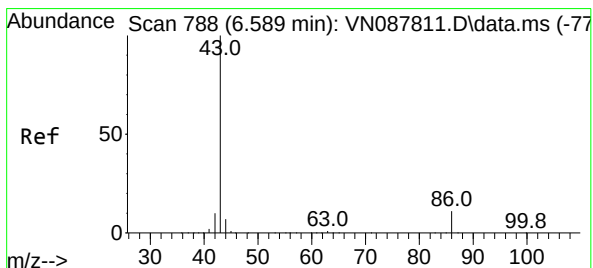
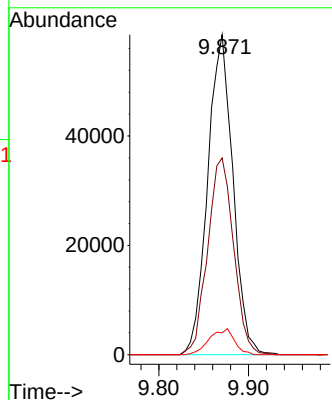
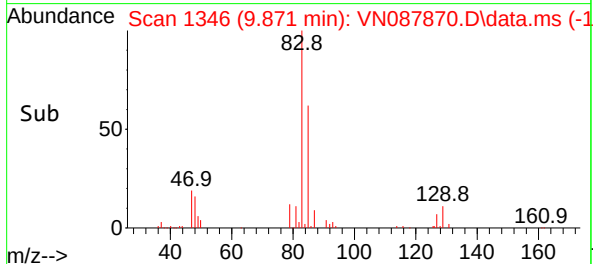
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 83 Resp: 114152  
Ion Ratio Lower Upper  
83 100  
85 61.5 47.3 70.9  
127 6.8 5.2 7.8

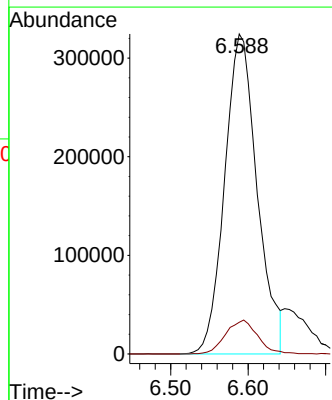
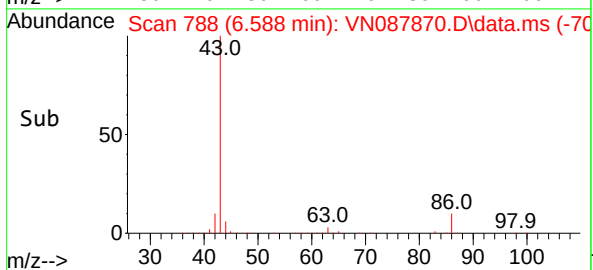
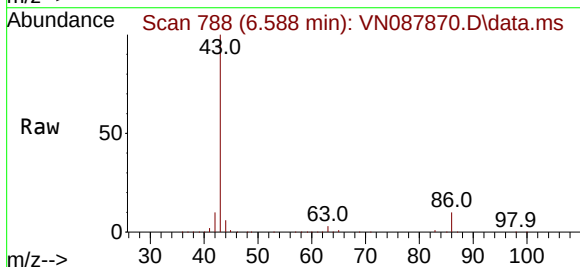
Manual Integrations  
APPROVED

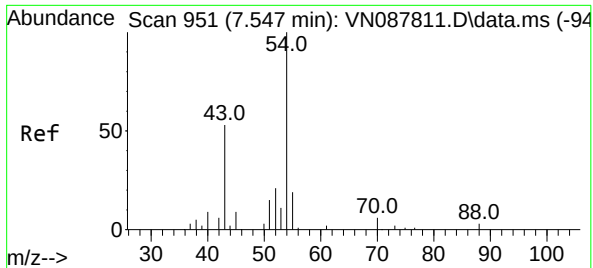
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#42  
Vinyl Acetate  
Concen: 85.635 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 43 Resp: 948262  
Ion Ratio Lower Upper  
43 100  
86 10.4 7.7 11.5





#43

Ethyl Acetate

Concen: 17.623 ug/l

RT: 7.541 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 43 Resp: 11932

Ion Ratio Lower Upper

43 100

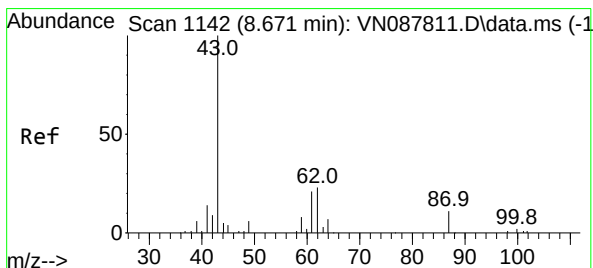
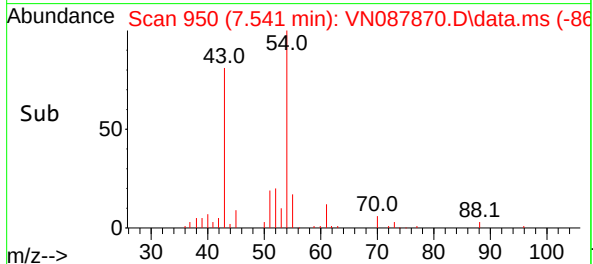
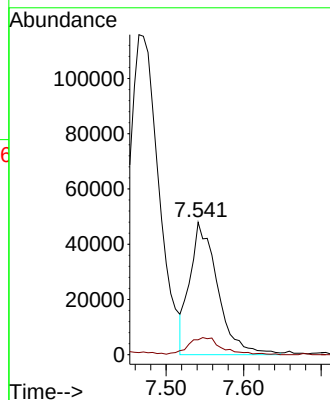
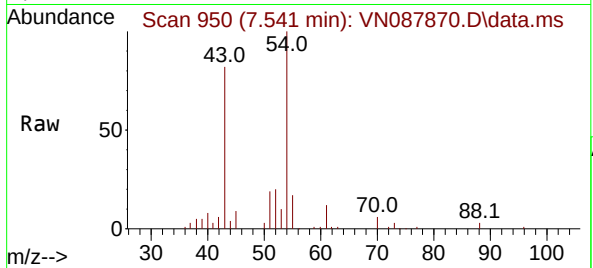
45 15.1 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Isopropyl Acetate

Concen: 17.991 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087870.D

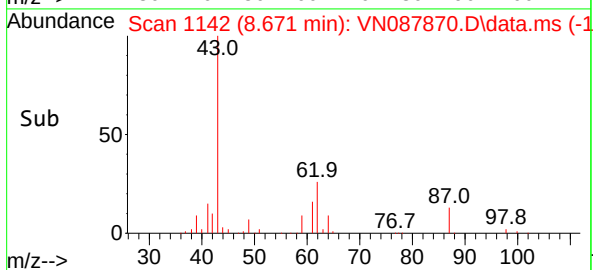
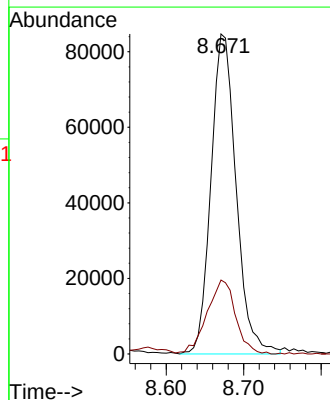
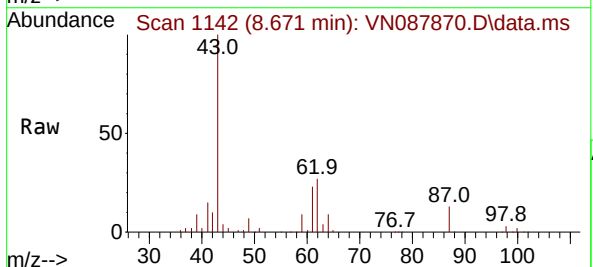
Acq: 17 Sep 2025 10:55

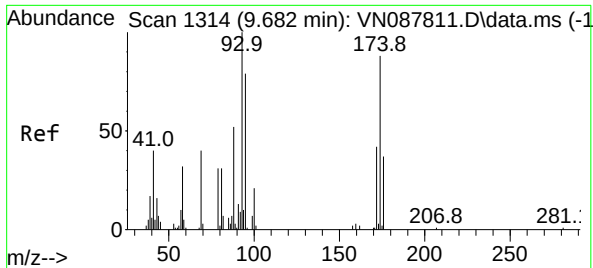
Tgt Ion: 43 Resp: 190975

Ion Ratio Lower Upper

43 100

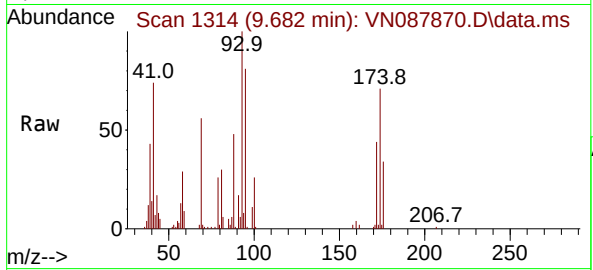
61 26.1 19.5 29.3





#45  
1,4-Dioxane  
Concen: 374.007 ug/l  
RT: 9.682 min Scan# 1314  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

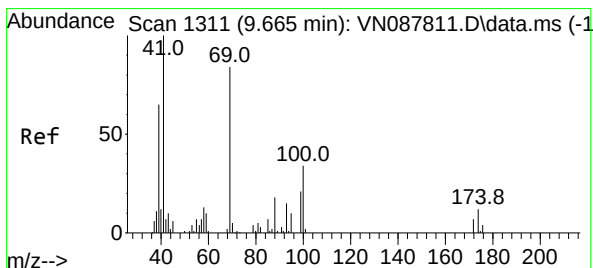
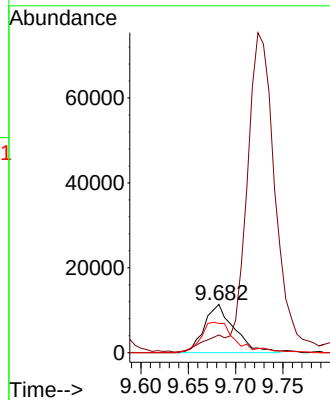
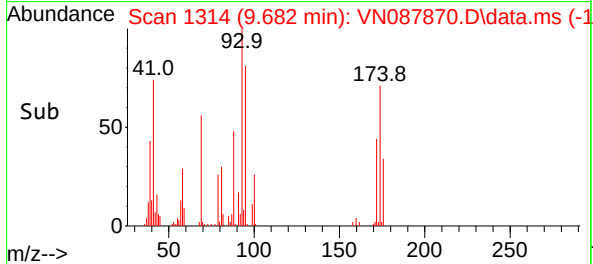
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



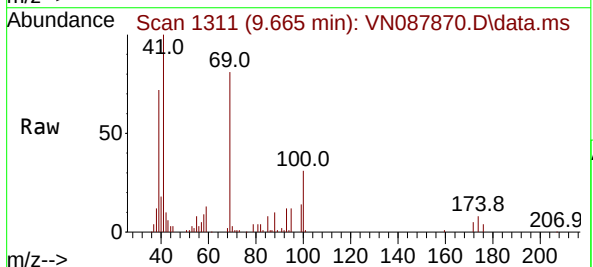
Tgt Ion: 88 Resp: 2503  
Ion Ratio Lower Upper  
88 100  
43 26.9 23.6 35.4  
58 40.6 60.5 90.7

Manual Integrations  
APPROVED

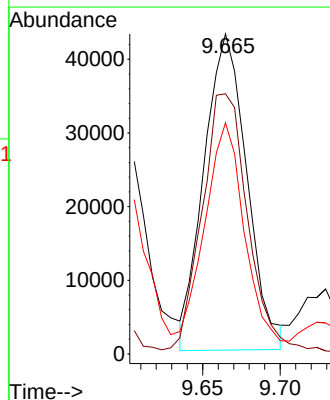
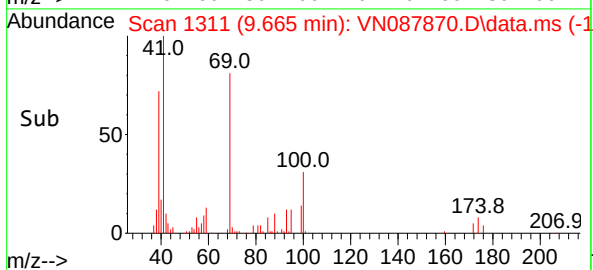
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

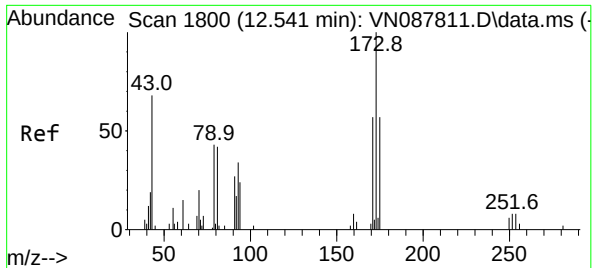


#46  
Methyl methacrylate  
Concen: 16.855 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



Tgt Ion: 41 Resp: 82471  
Ion Ratio Lower Upper  
41 100  
69 83.8 40.3 120.9  
39 74.8 31.9 95.9





#47

n-amy1 Acetate

Concen: 14.223 ug/l m

RT: 12.559 min Scan# 11

Delta R.T. -0.112 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion: 43 Resp: 102030

Ion Ratio Lower Upper

43 100

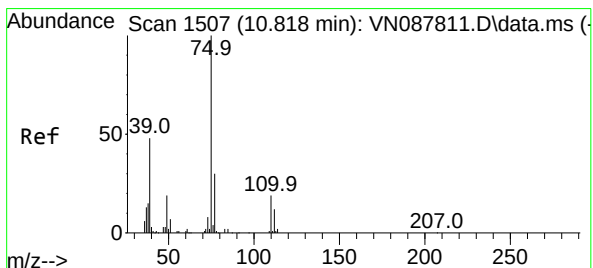
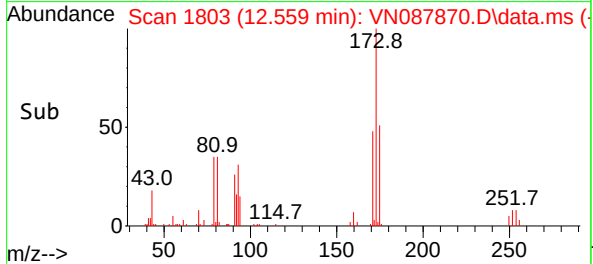
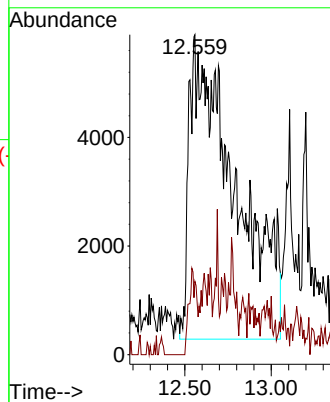
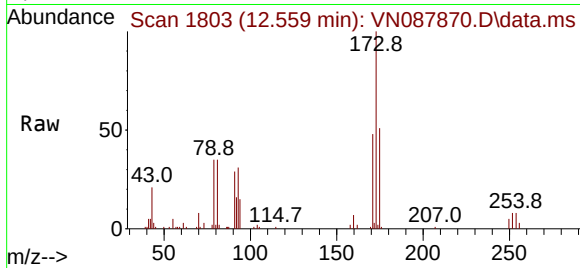
55 0.0 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

t-1,3-Dichloropropene

Concen: 18.442 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087870.D

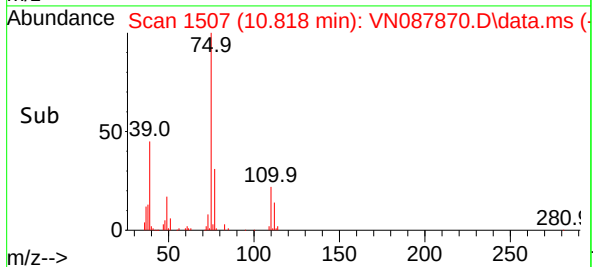
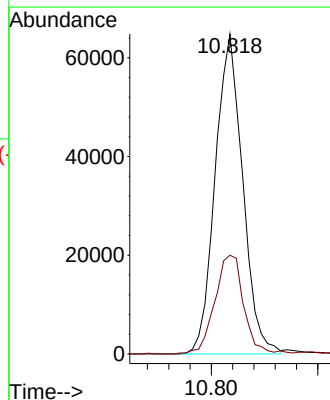
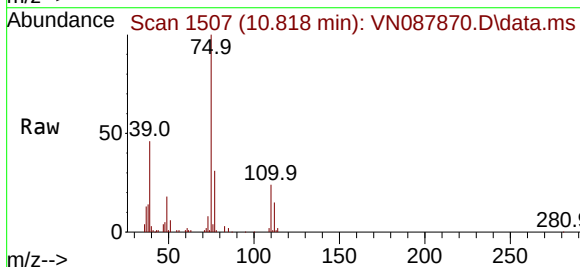
Acq: 17 Sep 2025 10:55

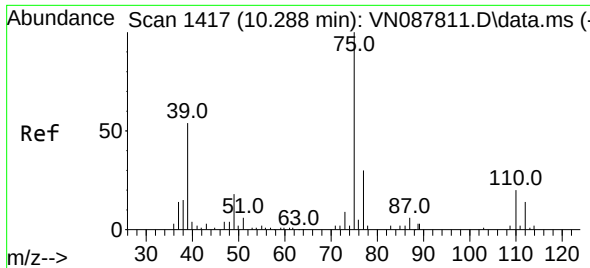
Tgt Ion: 75 Resp: 116022

Ion Ratio Lower Upper

75 100

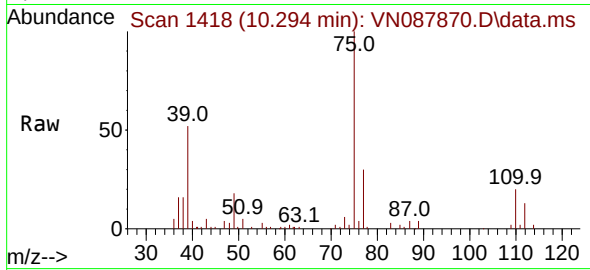
77 30.5 24.7 37.1





#49  
cis-1,3-Dichloropropene  
Concen: 18.464 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

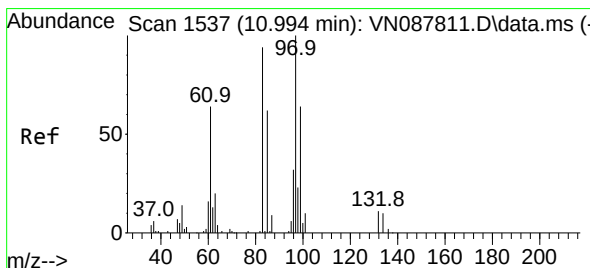
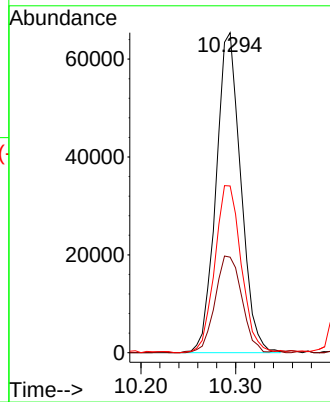
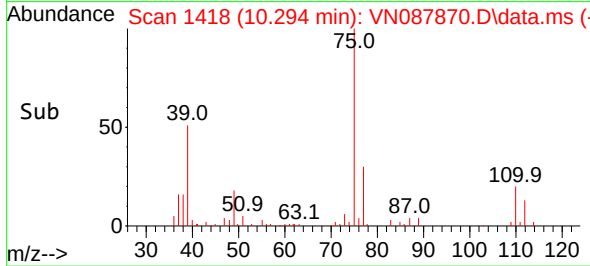
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



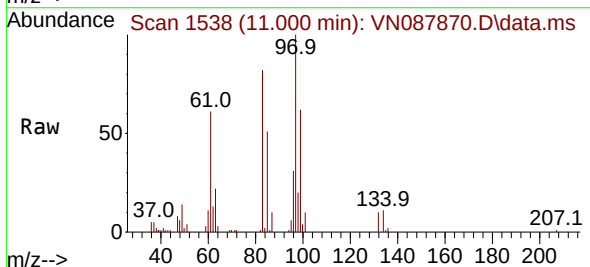
Tgt Ion: 75 Resp: 11898  
Ion Ratio Lower Upper  
75 100  
77 29.9 27.8 41.6  
39 52.1 47.6 71.4

Manual Integrations  
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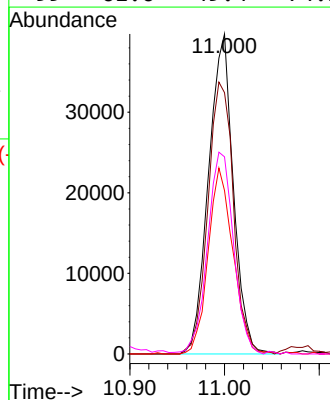
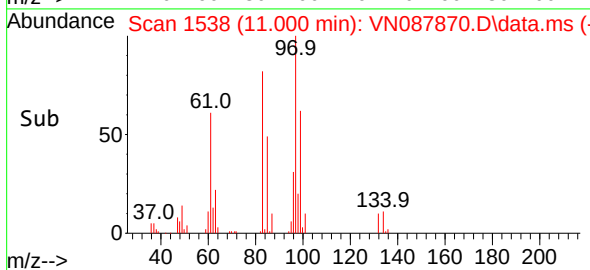
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

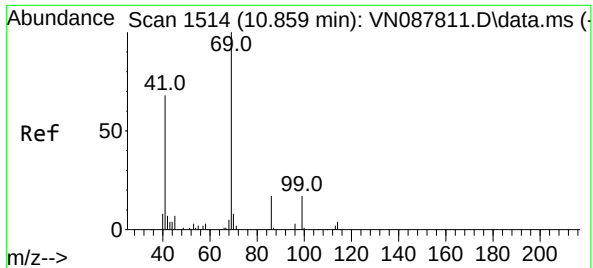


#50  
1,1,2-Trichloroethane  
Concen: 18.879 ug/l  
RT: 11.000 min Scan# 1538  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



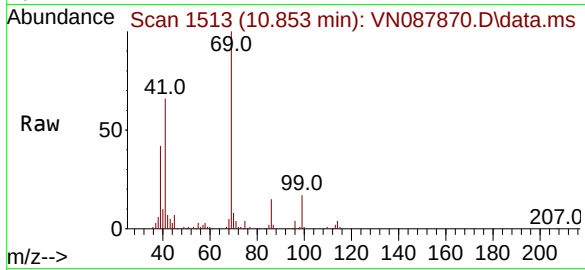
Tgt Ion: 97 Resp: 72265  
Ion Ratio Lower Upper  
97 100  
83 81.7 70.5 105.7  
85 51.0 46.3 69.5  
99 61.6 49.4 74.2





#51  
Ethyl methacrylate  
Concen: 17.847 ug/l  
RT: 10.853 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

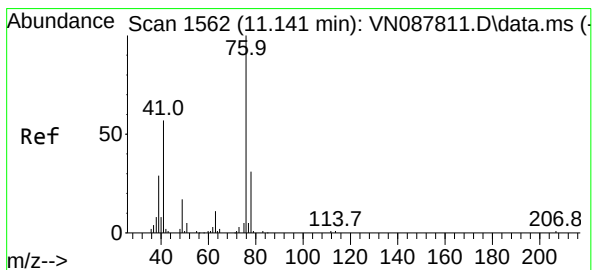
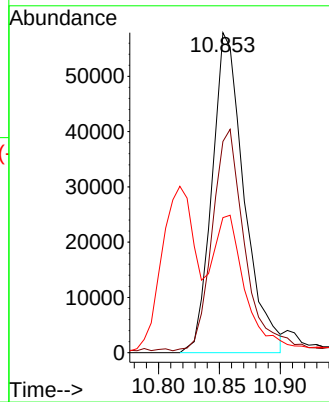
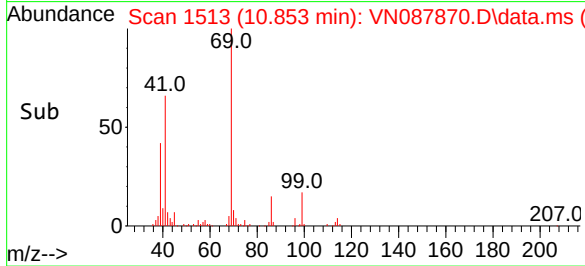
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 69 Resp: 106318  
Ion Ratio Lower Upper  
69 100  
41 64.8 33.7 101.0  
39 38.4 20.3 60.9

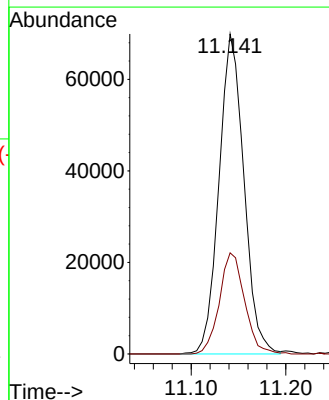
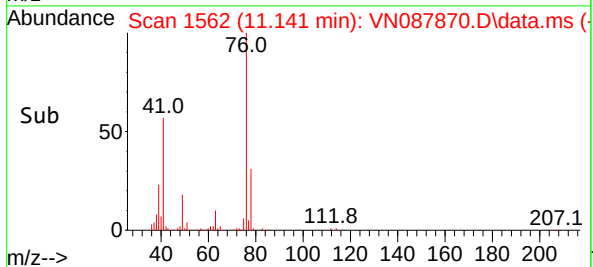
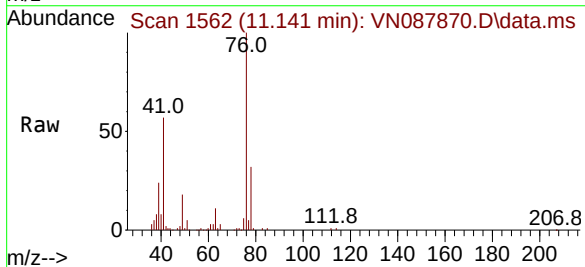
Manual Integrations  
APPROVED

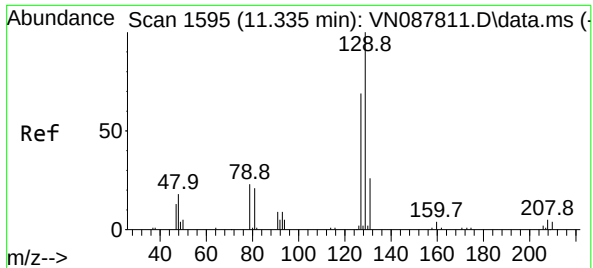
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#52  
1,3-Dichloropropane  
Concen: 19.222 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 76 Resp: 127768  
Ion Ratio Lower Upper  
76 100  
78 32.0 0.0 65.2





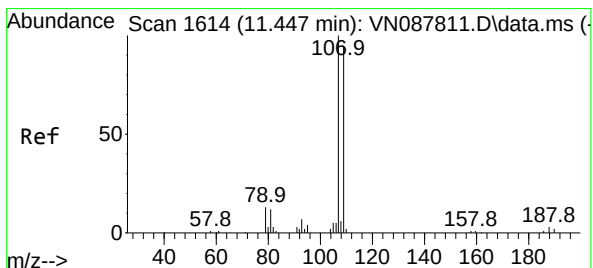
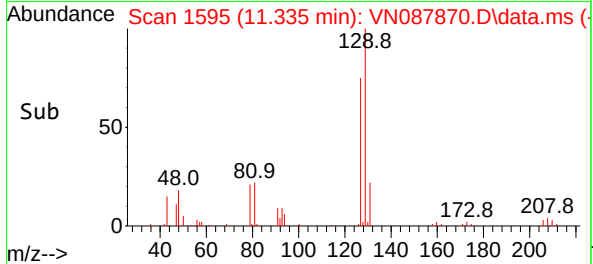
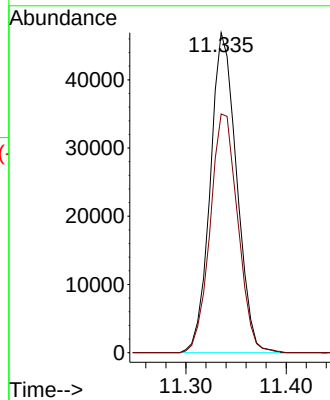
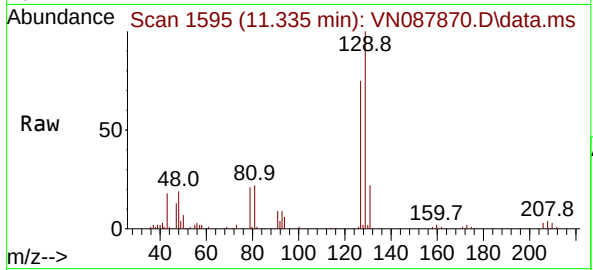
#53  
Dibromochloromethane  
Concen: 19.976 ug/l  
RT: 11.335 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:129 Resp: 8573  
Ion Ratio Lower Upper  
129 100  
127 78.2 42.6 128.0

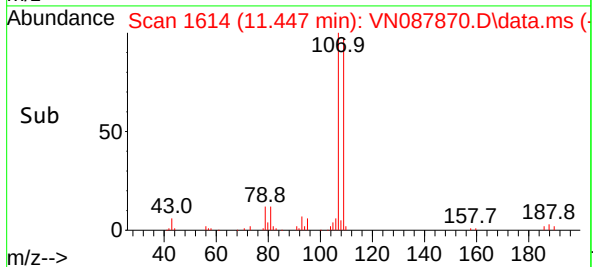
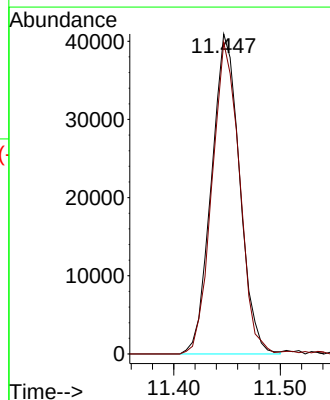
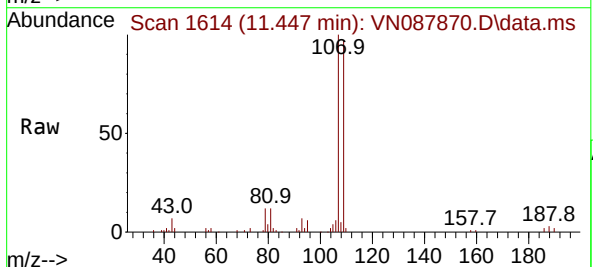
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

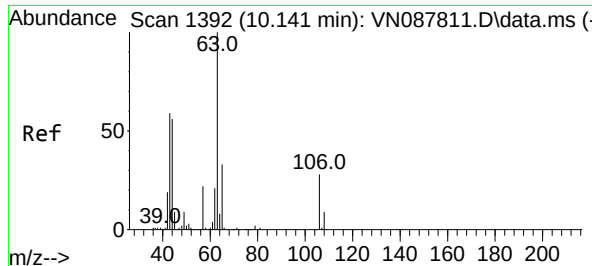


#54  
1,2-Dibromoethane  
Concen: 18.855 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:107 Resp: 75101  
Ion Ratio Lower Upper  
107 100  
109 95.0 74.6 112.0

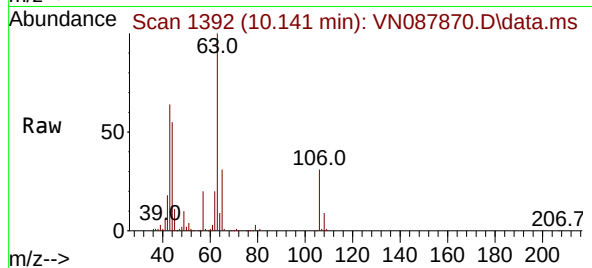






#55  
2-Chloroethyl vinyl ether  
Concen: 83.801 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

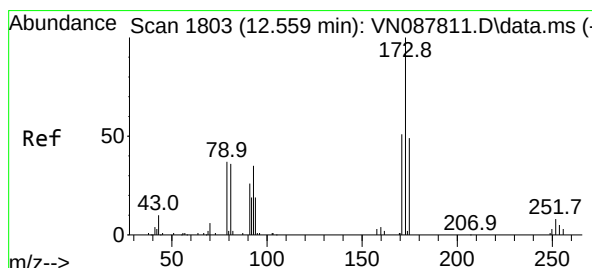
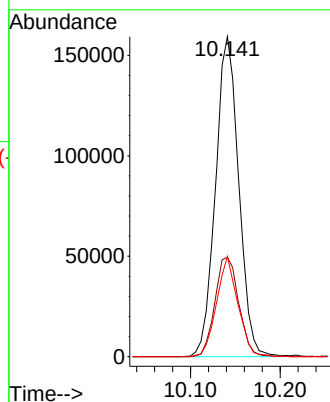
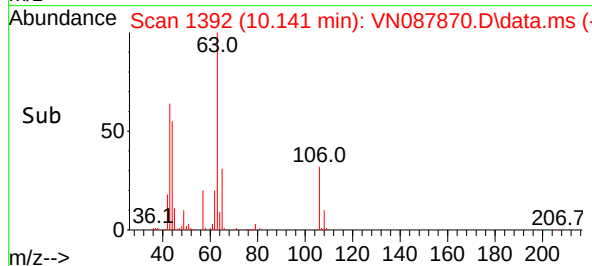
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 63 Resp: 286029  
Ion Ratio Lower Upper  
63 100  
65 31.9 26.6 40.0  
106 28.7 21.1 31.7

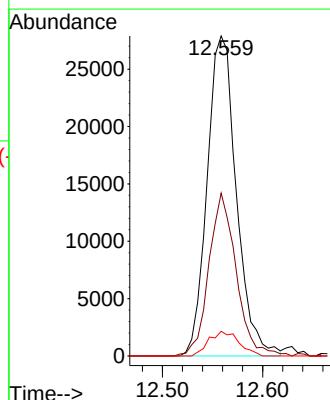
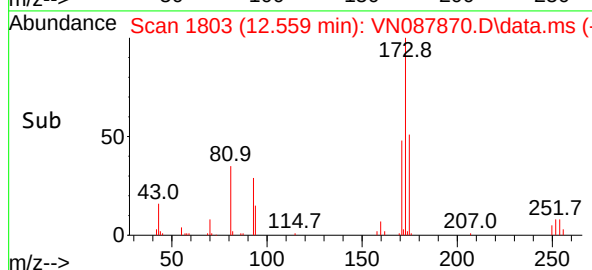
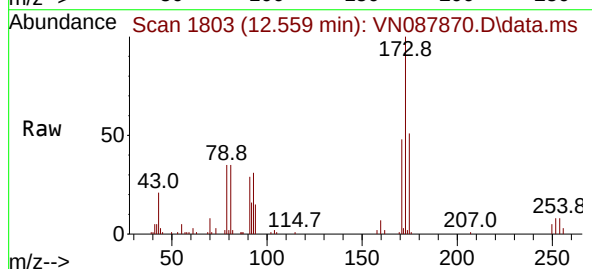
Manual Integrations  
APPROVED

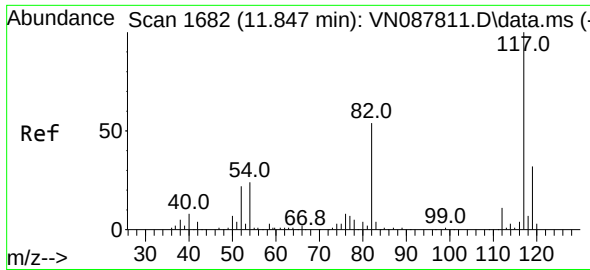
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#56  
Bromoform  
Concen: 20.167 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:173 Resp: 56526  
Ion Ratio Lower Upper  
173 100  
175 47.5 39.8 59.6  
254 7.9 6.2 9.4





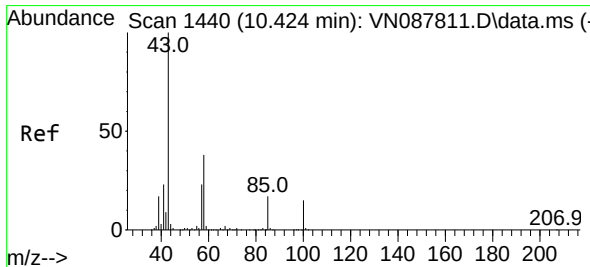
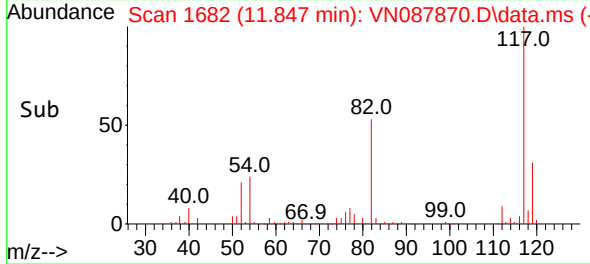
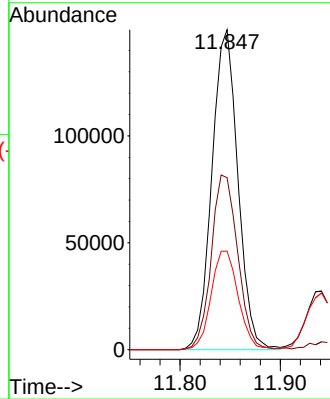
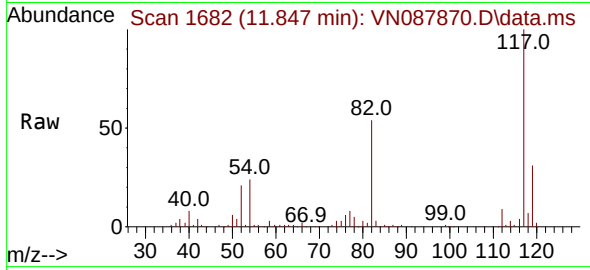
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:117 Resp: 268770  
Ion Ratio Lower Upper  
117 100  
82 55.6 45.9 68.9  
119 32.3 25.3 37.9

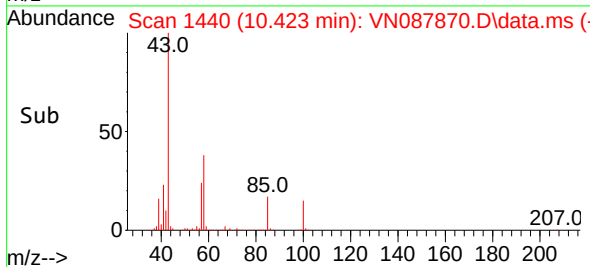
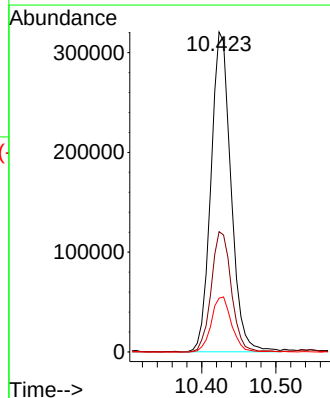
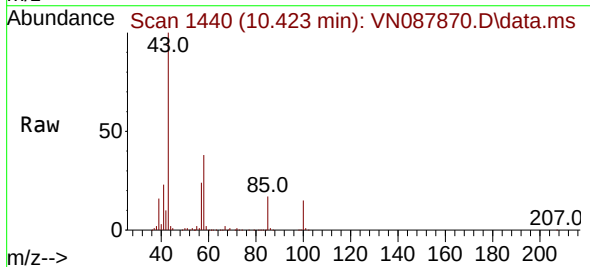
Manual Integrations  
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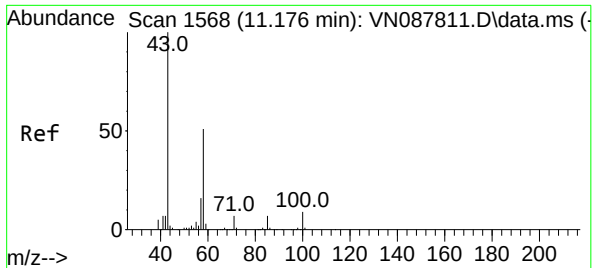
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#58  
4-Methyl-2-Pentanone  
Concen: 94.543 ug/l  
RT: 10.423 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

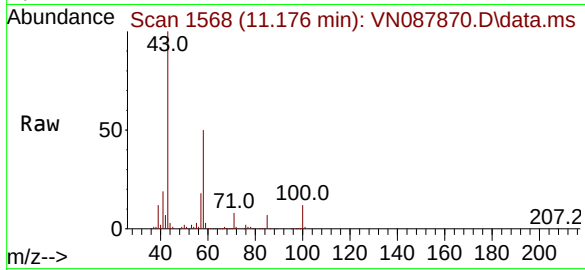
Tgt Ion: 43 Resp: 600838  
Ion Ratio Lower Upper  
43 100  
58 37.6 29.6 44.4  
85 17.4 13.0 19.4





#59  
2-Hexanone  
Concen: 92.361 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

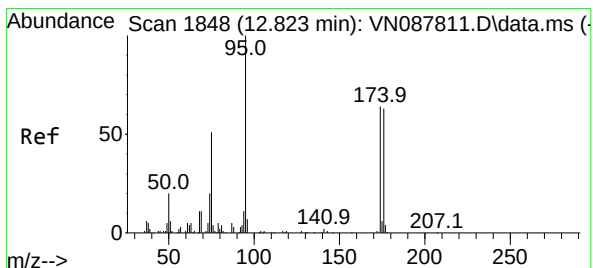
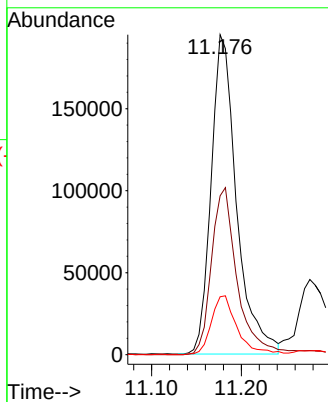
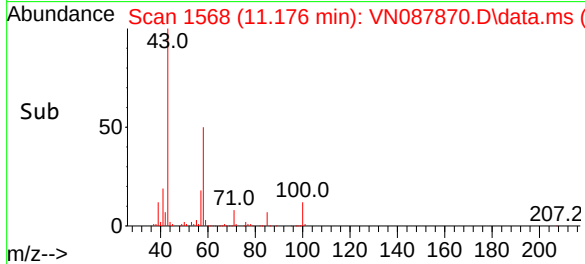
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



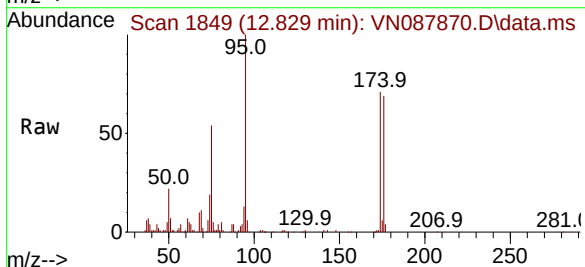
Tgt Ion: 43 Resp: 38355  
Ion Ratio Lower Upper  
43 100  
58 53.0 40.2 60.4  
57 18.8 13.7 20.5

Manual Integrations  
APPROVED

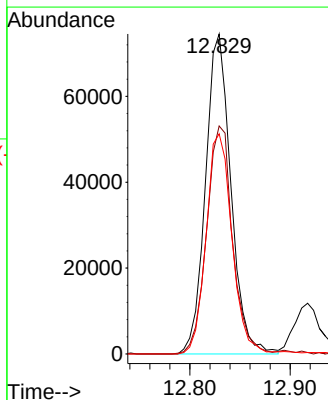
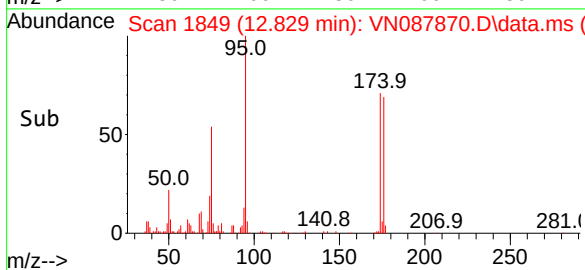
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

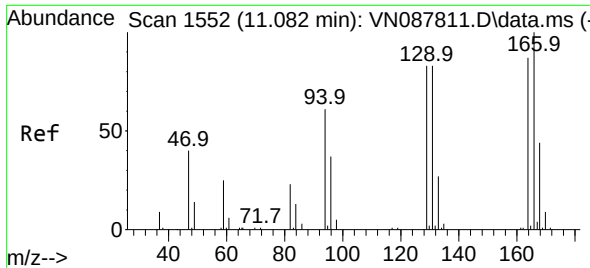


#60  
4-Bromofluorobenzene  
Concen: 30.402 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



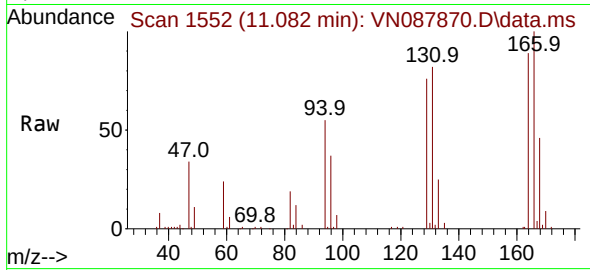
Tgt Ion: 95 Resp: 131390  
Ion Ratio Lower Upper  
95 100  
174 72.9 55.4 83.0  
176 69.7 51.5 77.3





#61  
Tetrachloroethene  
Concen: 22.587 ug/l  
RT: 11.082 min Scan# 11552  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

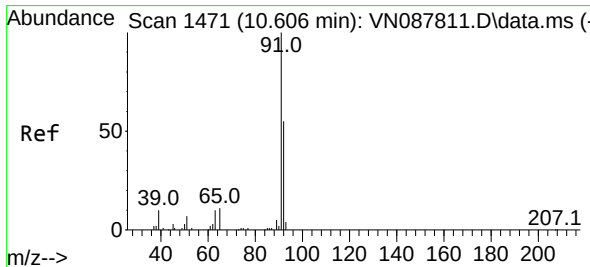
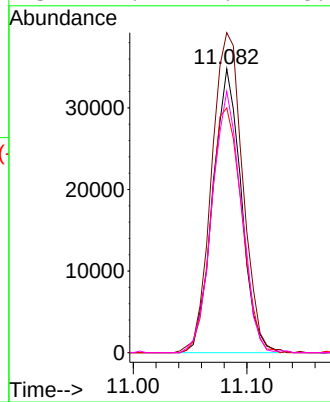
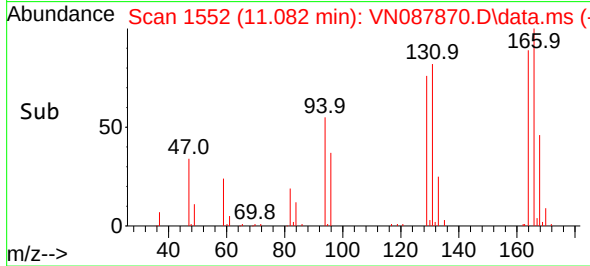
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



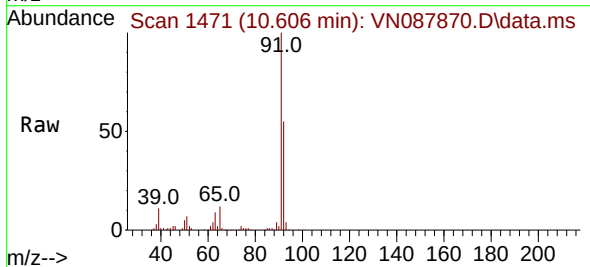
Tgt Ion:164 Resp: 6044  
Ion Ratio Lower Upper  
164 100  
166 112.1 97.3 145.9  
129 86.2 78.6 117.8  
131 92.1 79.2 118.8

Manual Integrations  
APPROVED

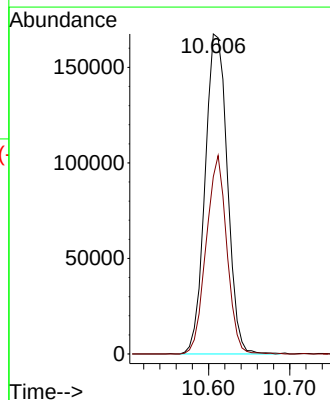
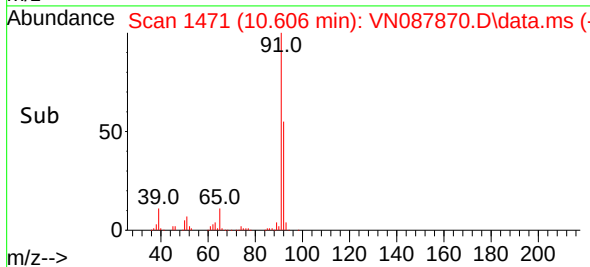
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

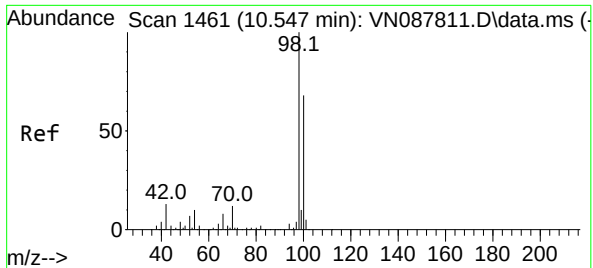


#62  
Toluene  
Concen: 19.612 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



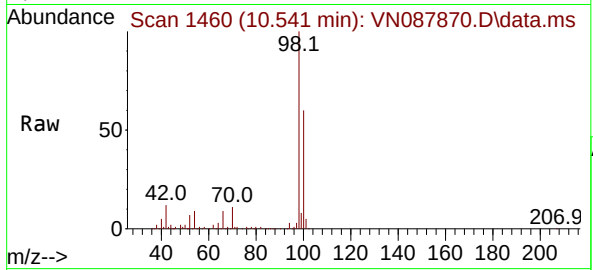
Tgt Ion: 91 Resp: 318841  
Ion Ratio Lower Upper  
91 100  
92 57.5 45.4 68.0





#63  
Toluene-d8  
Concen: 29.804 ug/l  
RT: 10.541 min Scan# 1461  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

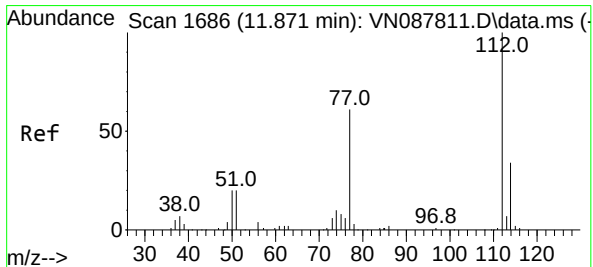
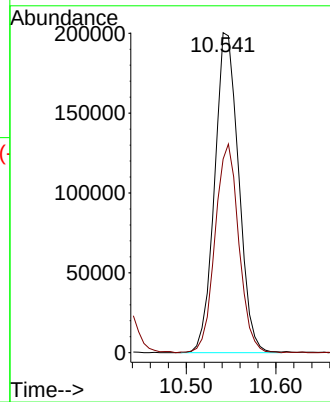
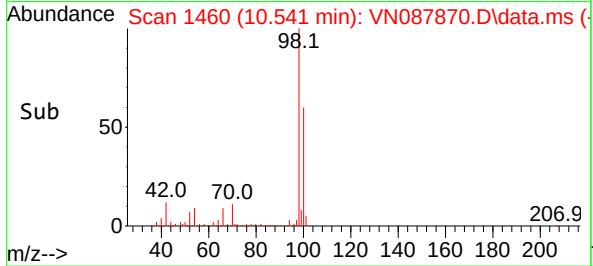
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 98 Resp: 372539  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.6 76.0

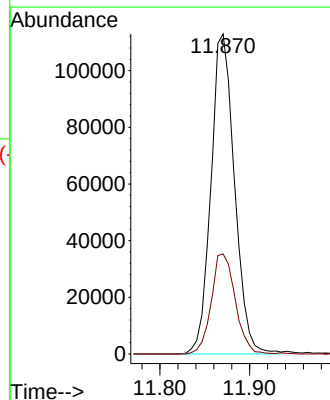
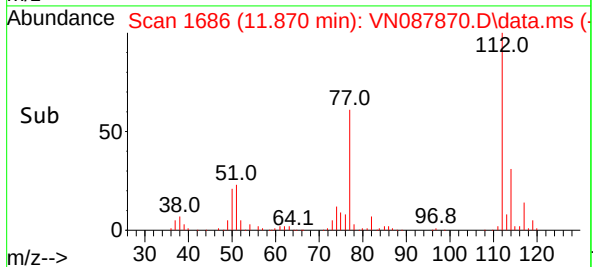
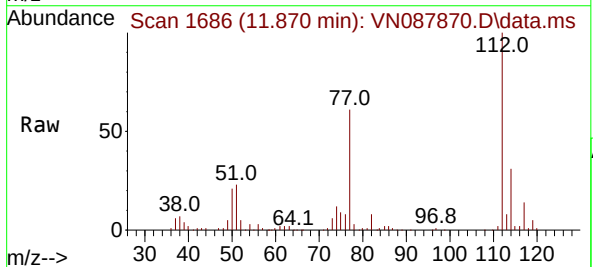
Manual Integrations  
APPROVED

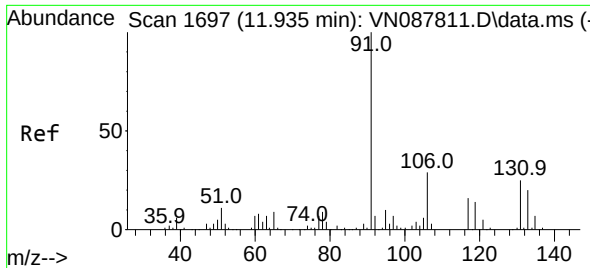
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#64  
Chlorobenzene  
Concen: 20.686 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:112 Resp: 206408  
Ion Ratio Lower Upper  
112 100  
114 31.2 23.5 35.3





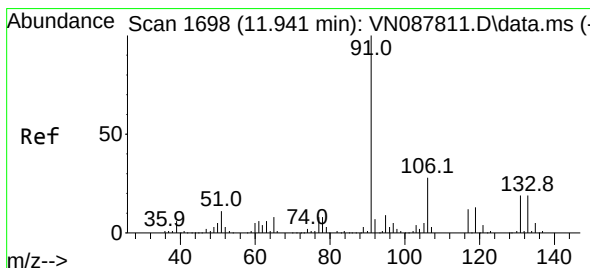
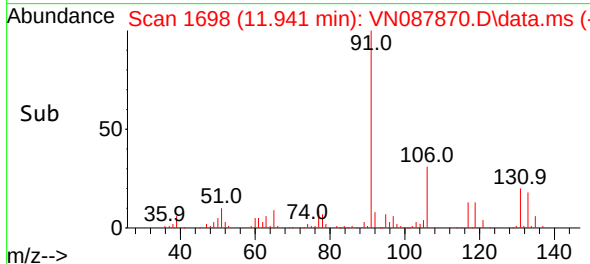
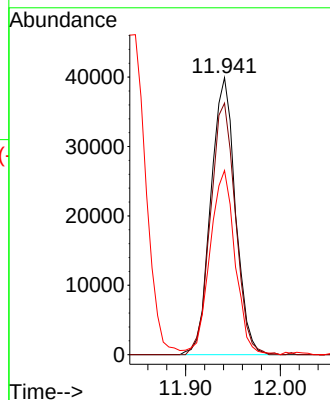
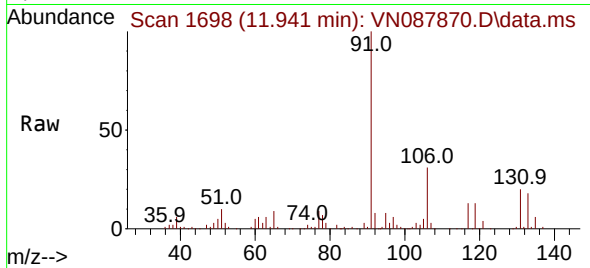
#65  
1,1,1,2-Tetrachloroethane  
Concen: 20.546 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:131 Resp: 72178  
Ion Ratio Lower Upper  
131 100  
133 91.9 0.0 195.8  
119 67.9 0.0 139.0

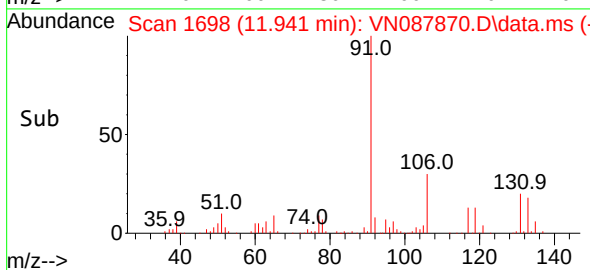
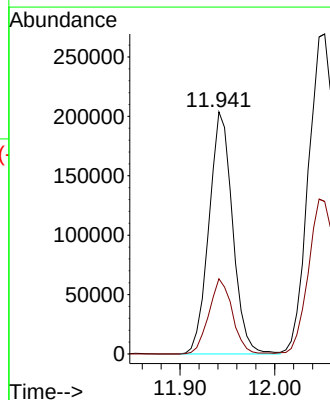
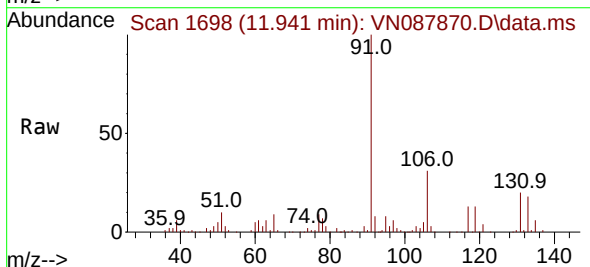
Manual Integrations  
APPROVED

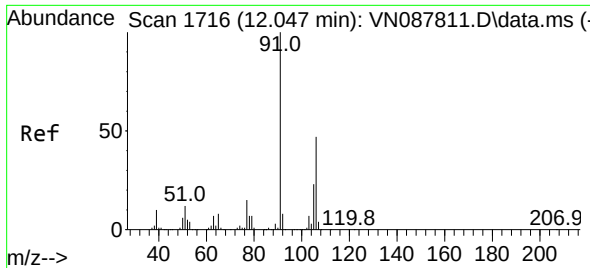
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#66  
Ethyl Benzene  
Concen: 20.169 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

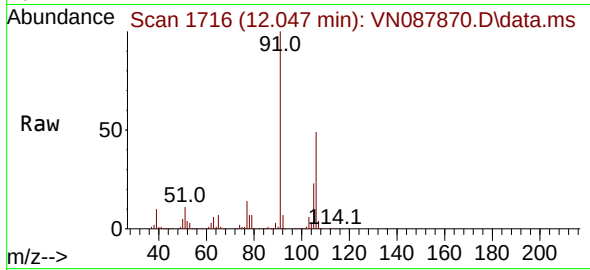
Tgt Ion: 91 Resp: 353748  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.3 31.9





#67  
m/p-Xylenes  
Concen: 40.829 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

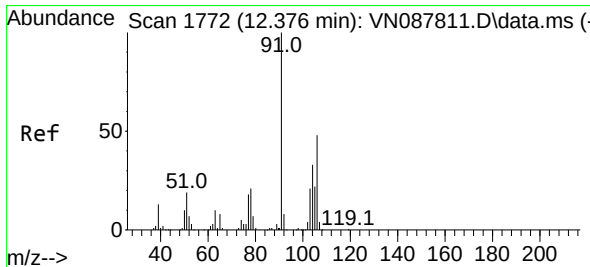
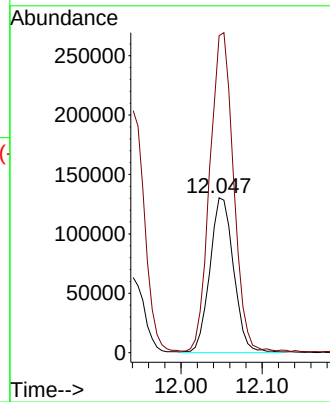
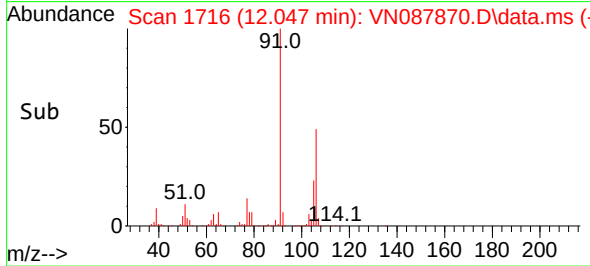
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



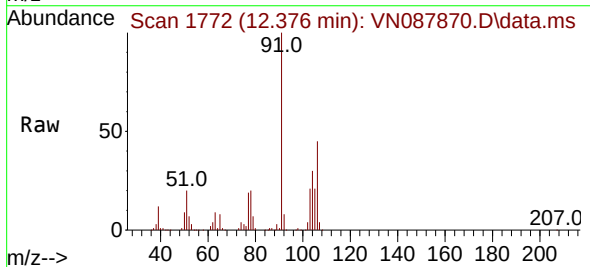
Tgt Ion:106 Resp: 265828  
Ion Ratio Lower Upper  
106 100  
91 204.9 174.3 261.5

Manual Integrations  
APPROVED

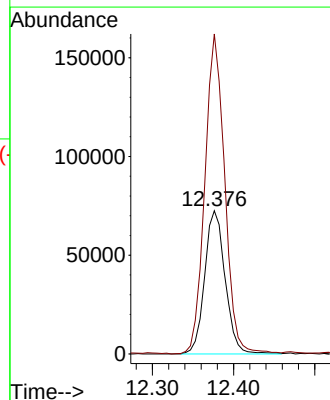
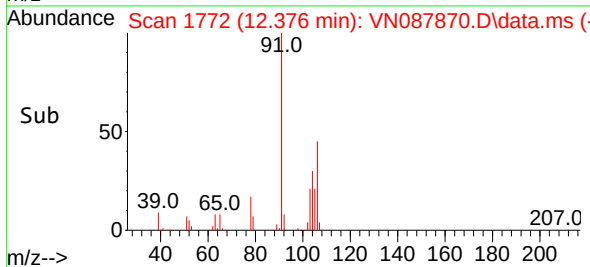
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

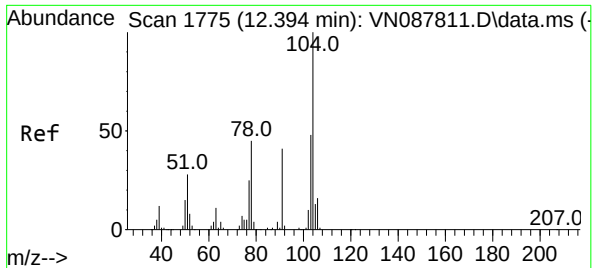


#68  
o-Xylene  
Concen: 20.161 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



Tgt Ion:106 Resp: 127272  
Ion Ratio Lower Upper  
106 100  
91 217.1 107.7 323.3





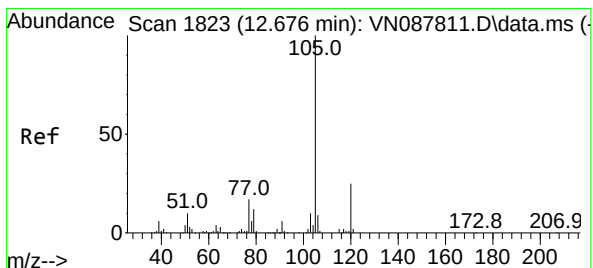
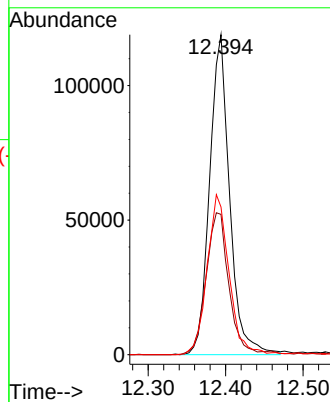
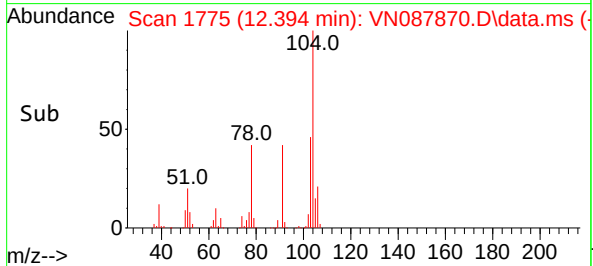
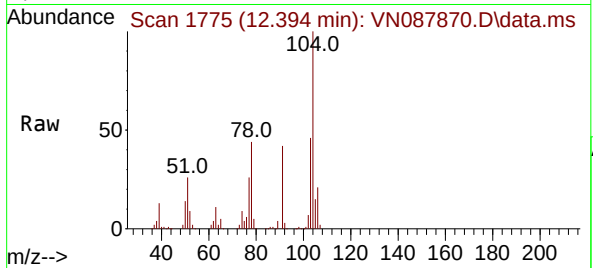
#69  
Styrene  
Concen: 19.464 ug/l  
RT: 12.394 min Scan# 1775  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:104 Resp: 213549  
Ion Ratio Lower Upper  
104 100  
78 49.9 41.0 61.6  
103 54.5 44.6 66.8

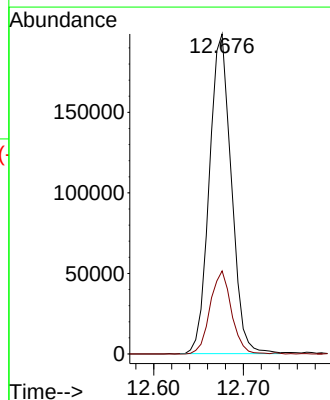
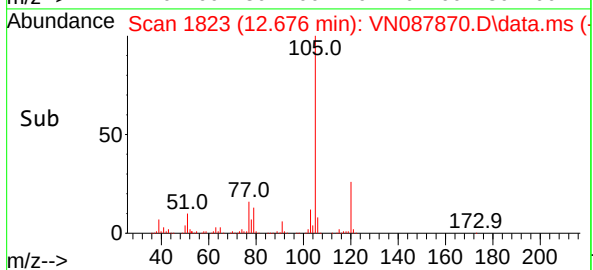
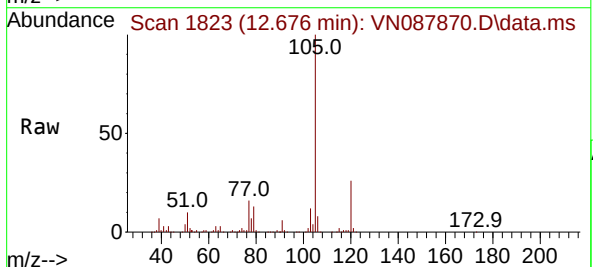
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

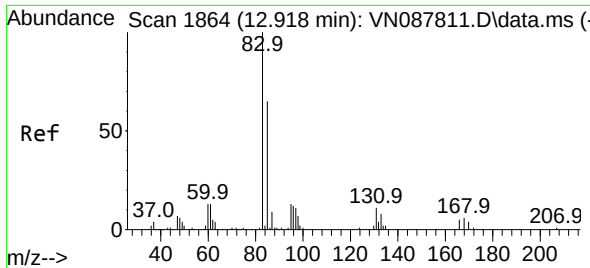


#70  
Isopropylbenzene  
Concen: 21.086 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:105 Resp: 337517  
Ion Ratio Lower Upper  
105 100  
120 25.2 17.4 32.4

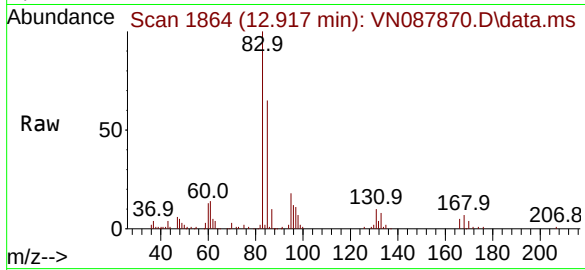






#71  
1,1,2,2-Tetrachloroethane  
Concen: 19.925 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

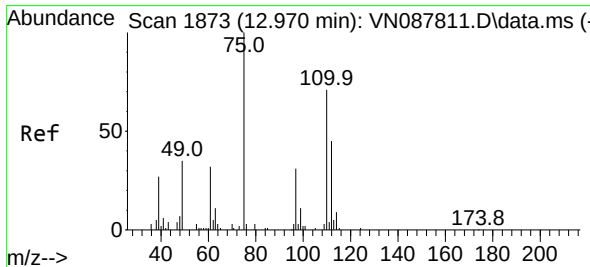
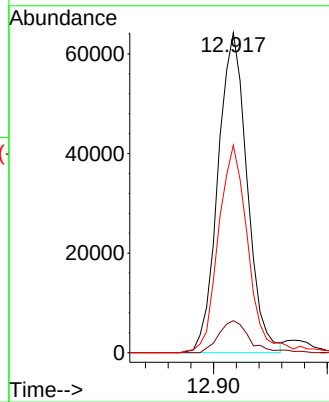
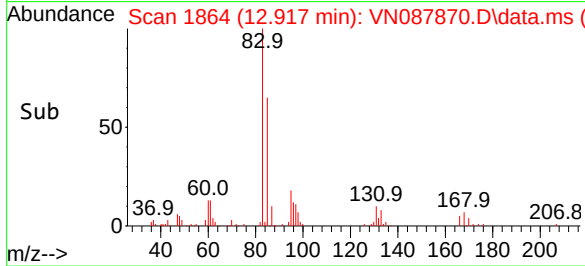
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



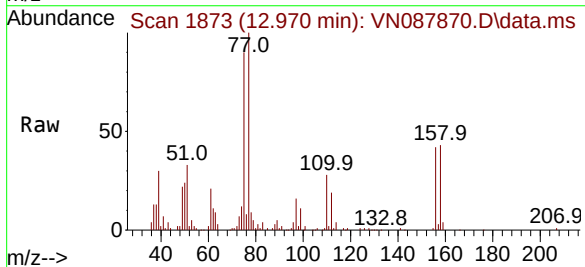
Tgt Ion: 83 Resp: 114652  
Ion Ratio Lower Upper  
83 100  
131 10.0 4.8 14.3  
85 65.1 31.9 95.7

Manual Integrations  
APPROVED

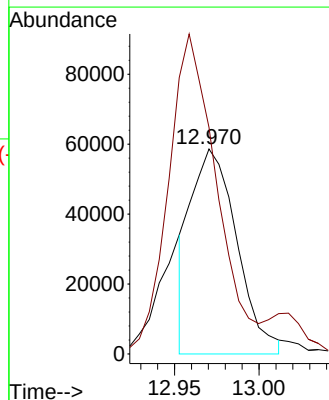
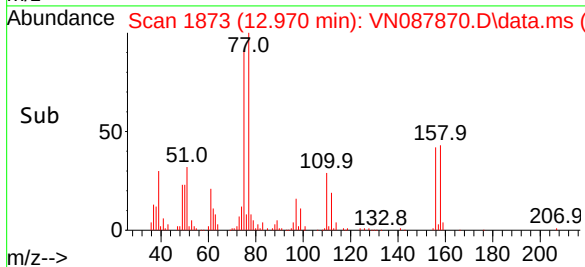
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

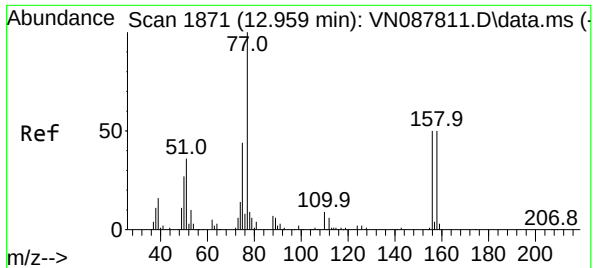


#72  
1,2,3-Trichloropropane  
Concen: 19.649 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



Tgt Ion: 75 Resp: 111015  
Ion Ratio Lower Upper  
75 100  
77 164.1 0.0 378.8





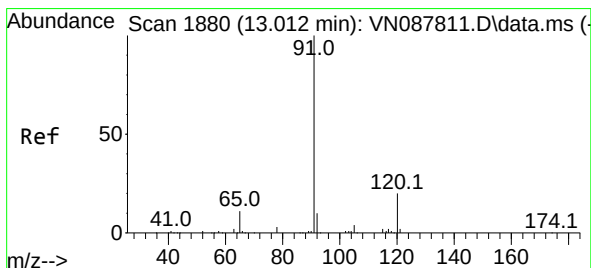
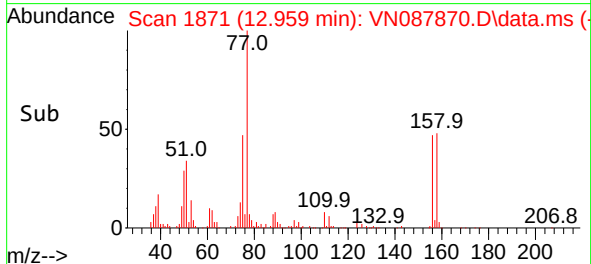
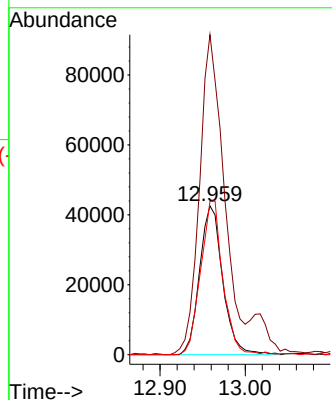
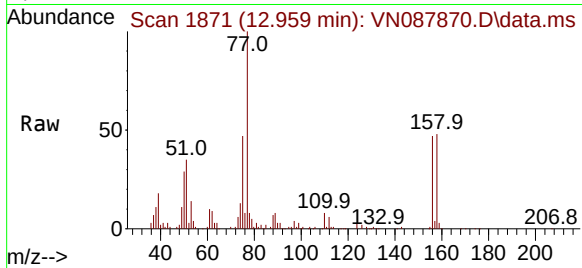
#73  
Bromobenzene  
Concen: 20.489 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:156 Resp: 80238  
Ion Ratio Lower Upper  
156 100  
77 227.0 0.0 484.2  
158 99.1 0.0 186.2

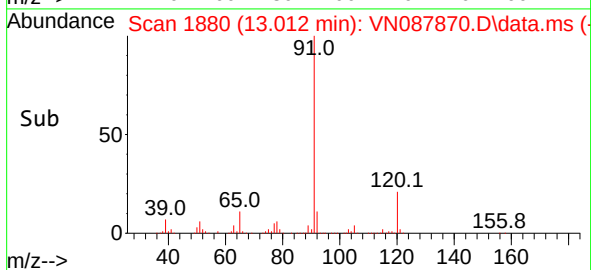
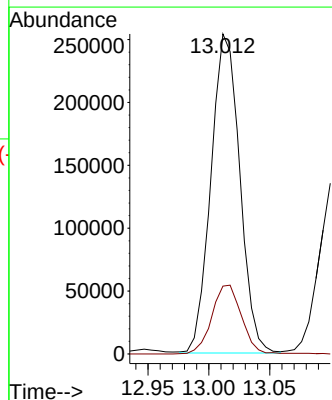
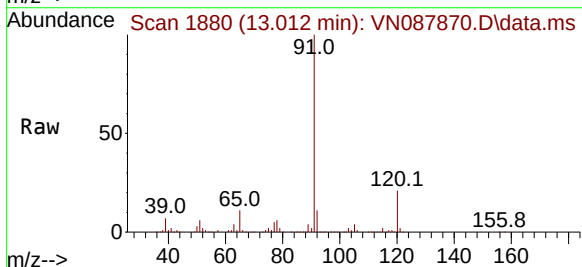
Manual Integrations  
APPROVED

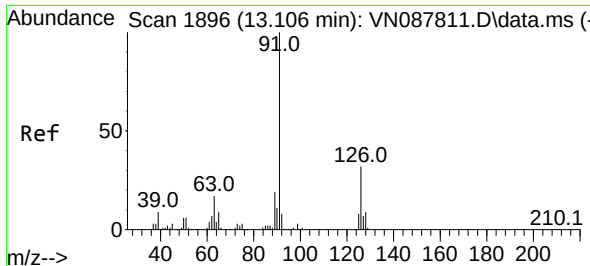
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#74  
n-propylbenzene  
Concen: 20.722 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion: 91 Resp: 418506  
Ion Ratio Lower Upper  
91 100  
120 22.2 0.0 42.2





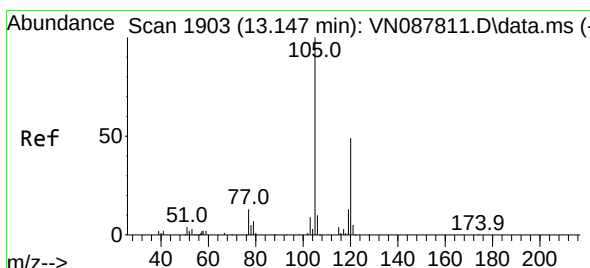
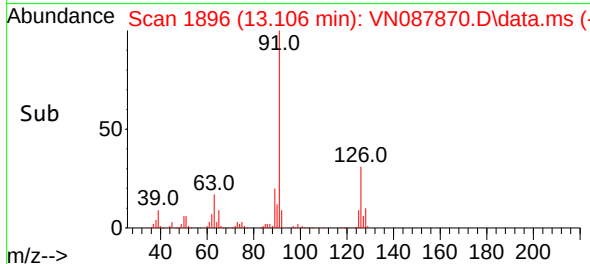
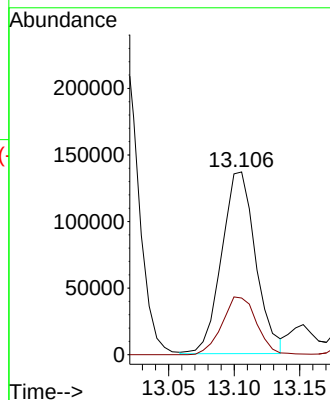
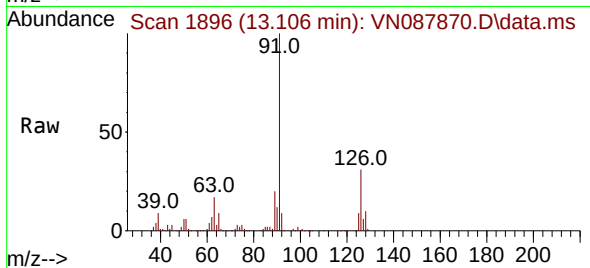
#75  
2-Chlorotoluene  
Concen: 20.240 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion: 91 Resp: 246028  
Ion Ratio Lower Upper  
91 100  
126 32.4 0.0 60.4

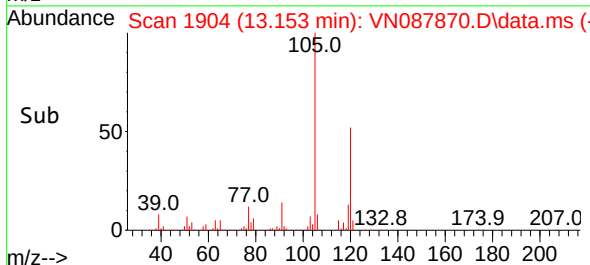
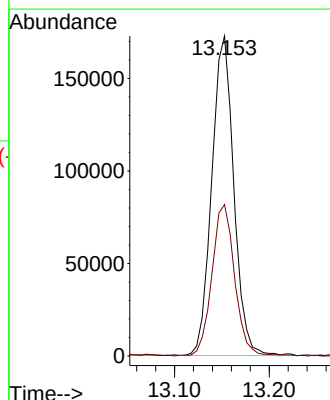
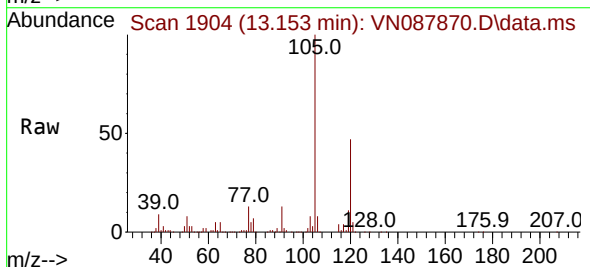
Manual Integrations  
APPROVED

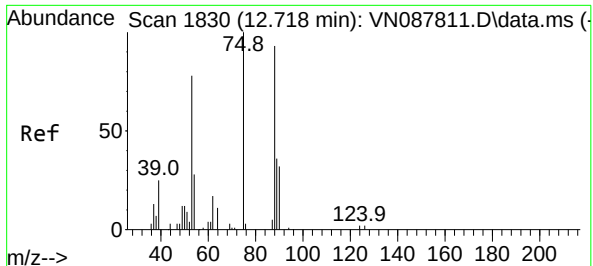
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 20.642 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:105 Resp: 279014  
Ion Ratio Lower Upper  
105 100  
120 49.0 0.0 92.6





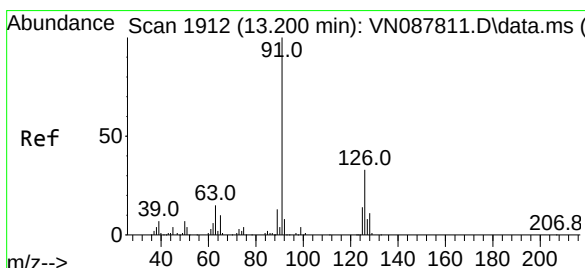
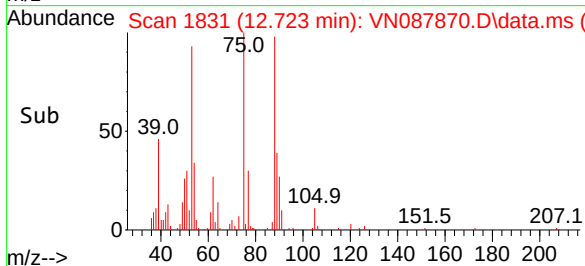
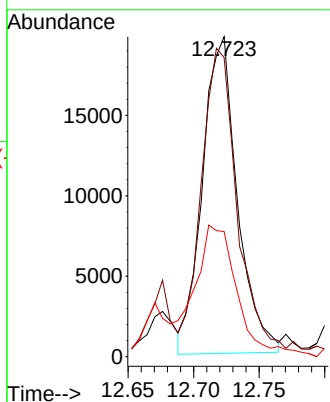
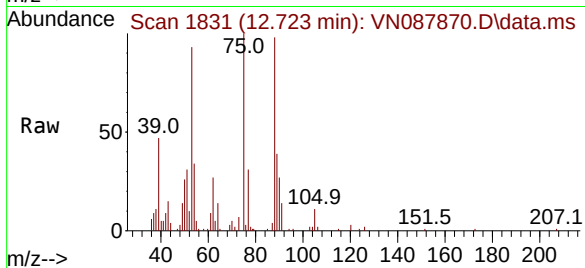
#77  
t-1,4-Dichloro-2-butene  
Concen: 19.139 ug/l  
RT: 12.723 min Scan# 1831  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

| Tgt Ion:  | 75    | Resp: | 3649  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 92.4  | 45.3  | 135.9 |
| 89        | 37.6  | 18.8  | 56.3  |

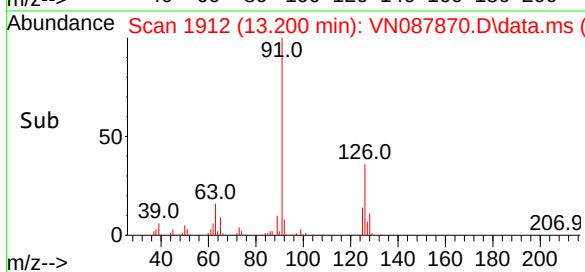
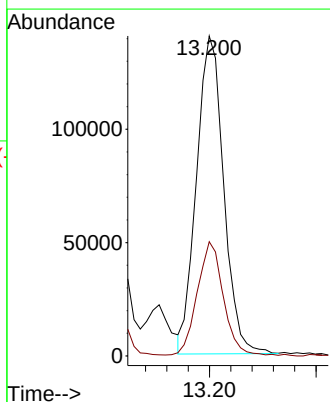
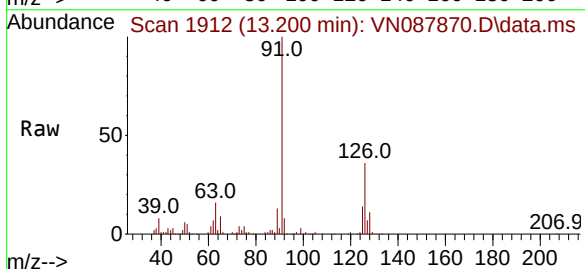
Manual Integrations  
APPROVED

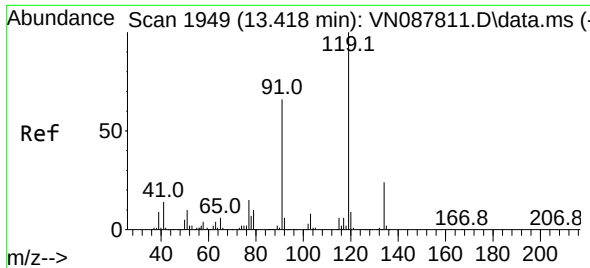
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#78  
4-Chlorotoluene  
Concen: 20.310 ug/l  
RT: 13.200 min Scan# 1912  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

| Tgt Ion:  | 91    | Resp: | 248882 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 34.8  | 0.0   | 67.0   |





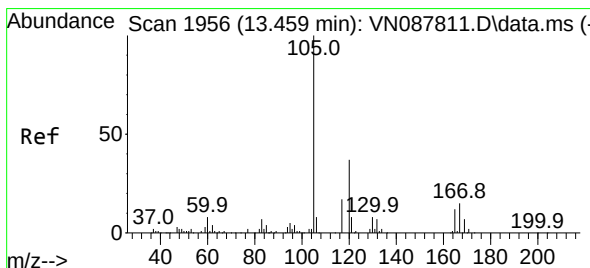
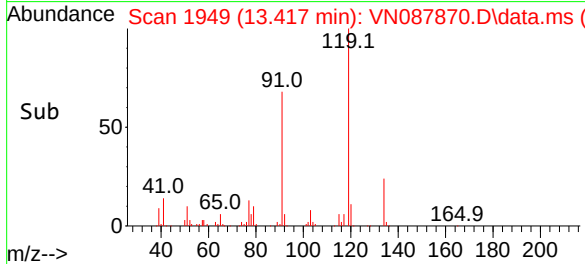
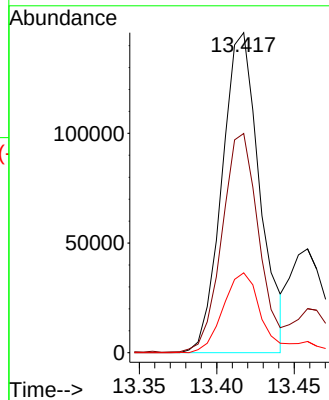
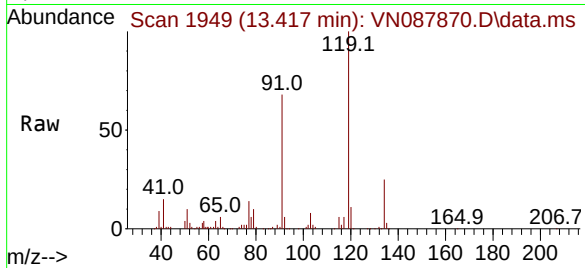
#79  
tert-butylbenzene  
Concen: 21.807 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 66.6  | 0.0   | 142.6 |
| 134     | 24.8  | 0.0   | 47.2  |

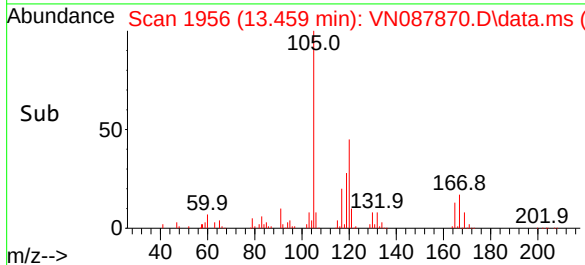
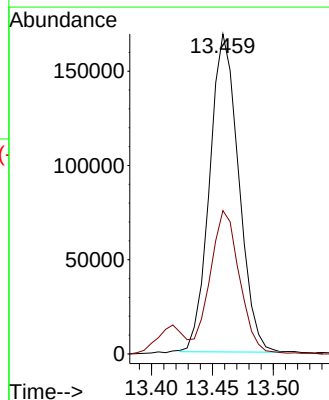
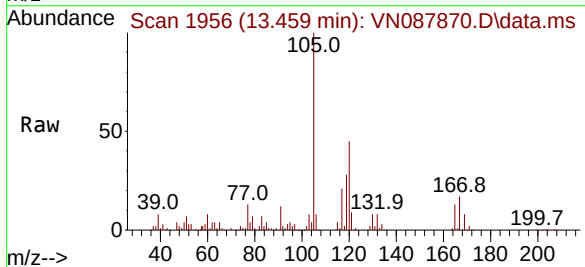
Manual Integrations  
APPROVED

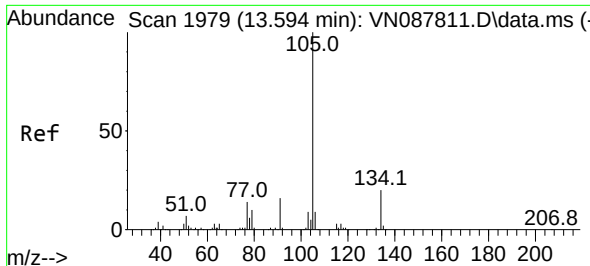
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 20.211 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.8  | 0.0   | 86.6  |





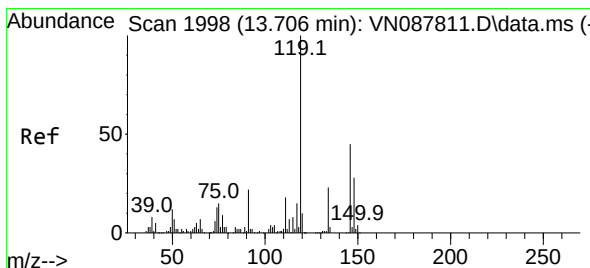
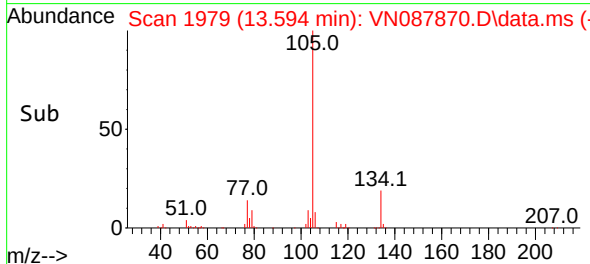
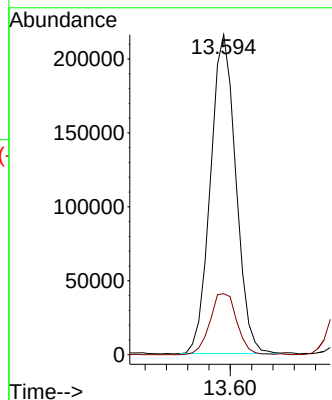
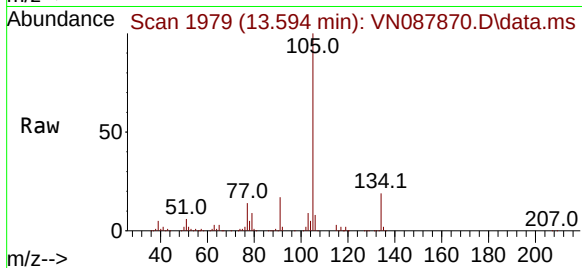
#81  
sec-Butylbenzene  
Concen: 21.444 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01

Tgt Ion:105 Resp: 357039  
Ion Ratio Lower Upper  
105 100  
134 20.3 0.0 37.0

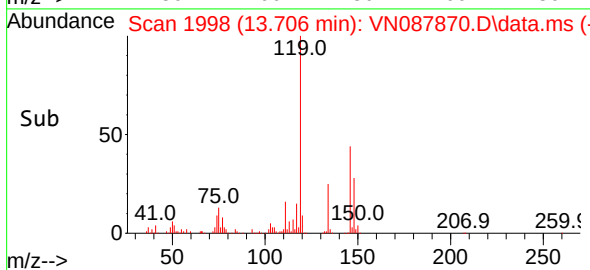
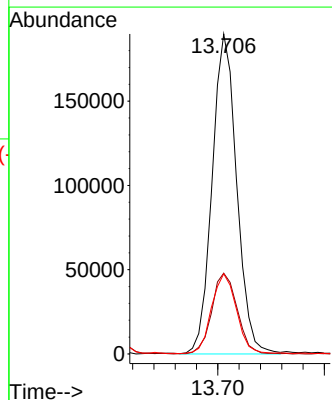
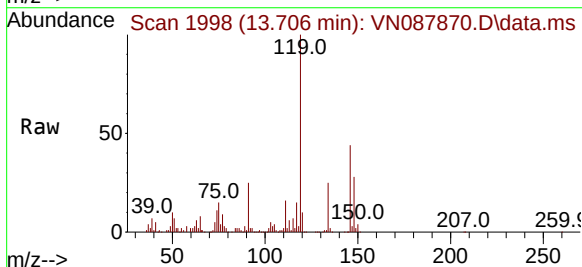
Manual Integrations  
APPROVED

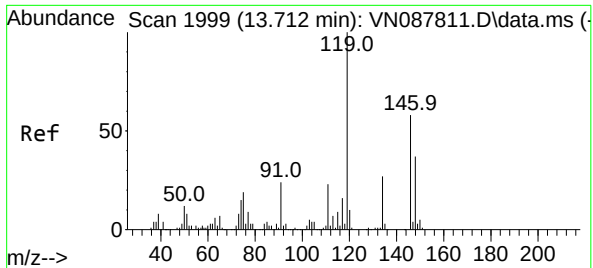
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#82  
p-Isopropyltoluene  
Concen: 22.138 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:119 Resp: 303705  
Ion Ratio Lower Upper  
119 100  
134 26.2 0.0 49.4  
91 25.1 0.0 52.2





#83

1,3-Dichlorobenzene

Concen: 21.562 ug/l

RT: 13.711 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion:146 Resp: 162789

Ion Ratio Lower Upper

146 100

111 39.7 21.1 63.4

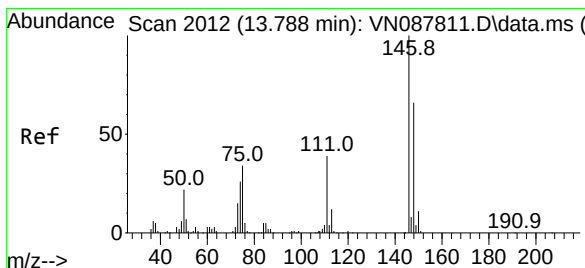
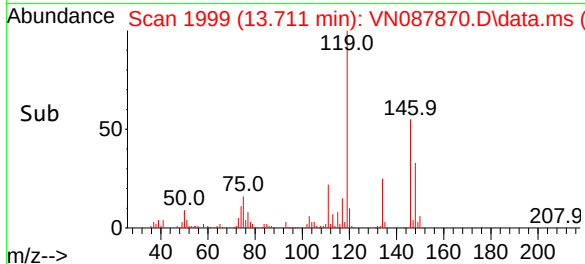
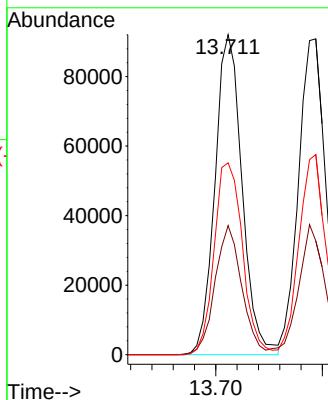
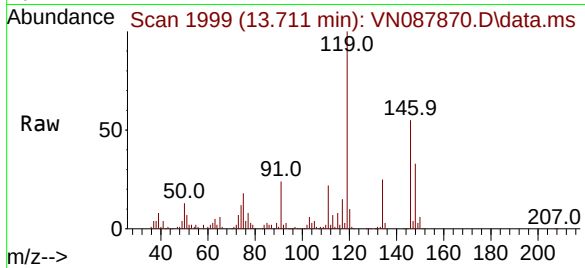
148 62.6 31.0 93.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,4-Dichlorobenzene

Concen: 21.731 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

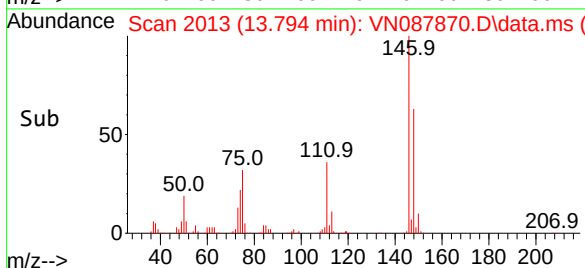
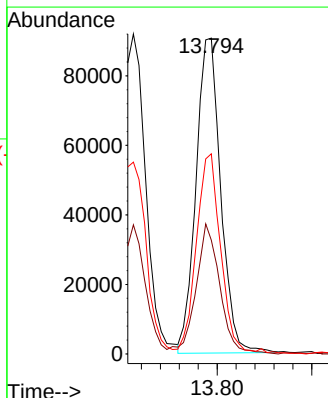
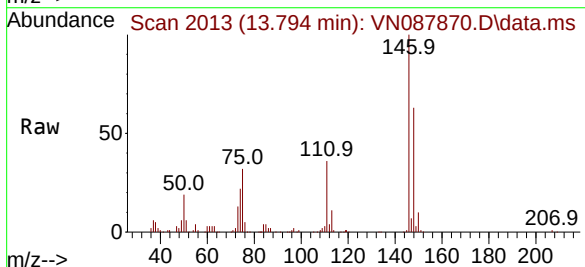
Tgt Ion:146 Resp: 164451

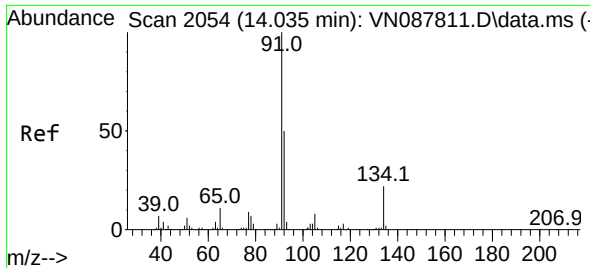
Ion Ratio Lower Upper

146 100

111 40.0 20.2 60.5

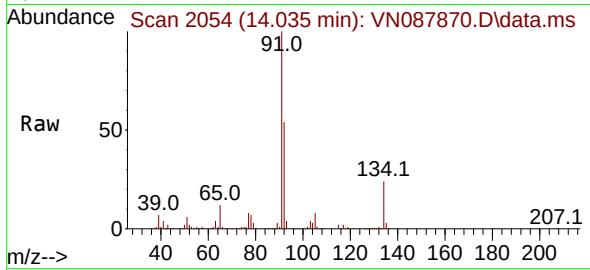
148 62.4 31.5 94.5





#85  
n-Butylbenzene  
Concen: 22.042 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

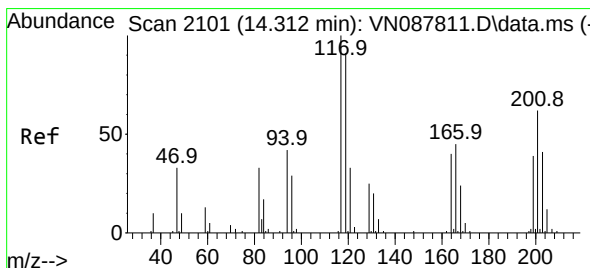
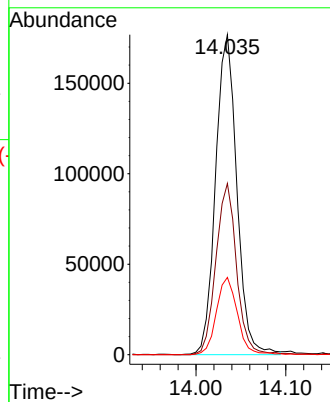
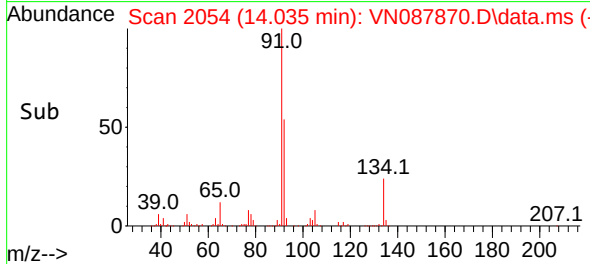
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion: 91 Resp: 29066  
Ion Ratio Lower Upper  
91 100  
92 51.7 0.0 104.0  
134 23.6 0.0 46.0

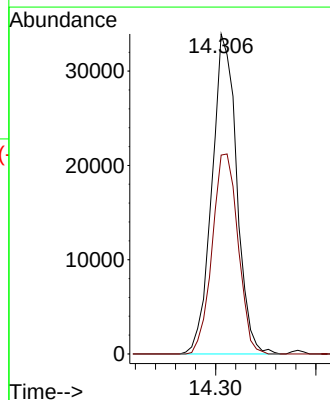
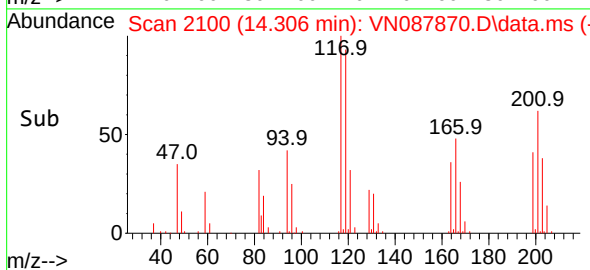
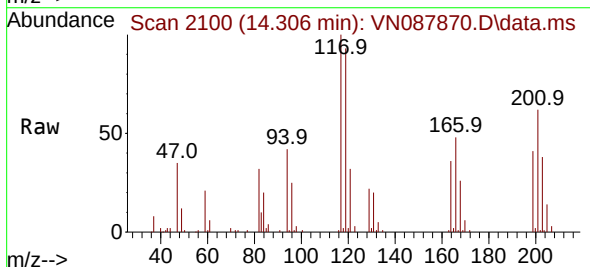
Manual Integrations  
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Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

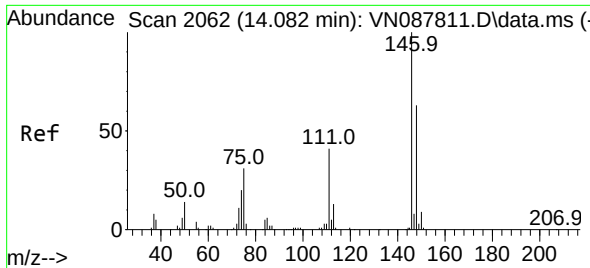


#86  
Hexachloroethane  
Concen: 20.885 ug/l  
RT: 14.306 min Scan# 2100  
Delta R.T. -0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:117 Resp: 58197  
Ion Ratio Lower Upper  
117 100  
201 65.1 29.9 89.7







#87

1,2-Dichlorobenzene

Concen: 21.640 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBS01

Tgt Ion:146 Resp: 15409

Ion Ratio Lower Upper

146 100

111 42.8 21.5 64.5

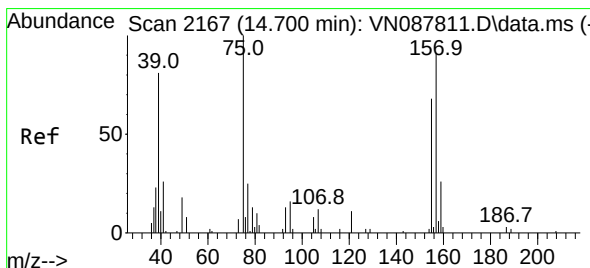
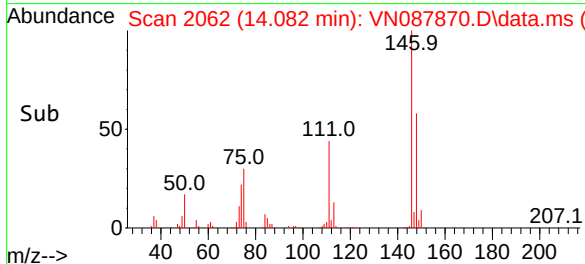
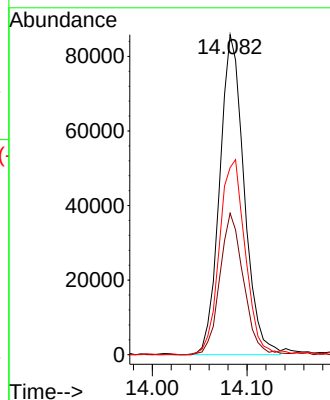
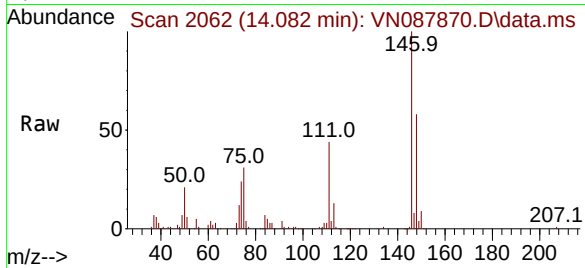
148 63.9 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.996 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VN087870.D

Acq: 17 Sep 2025 10:55

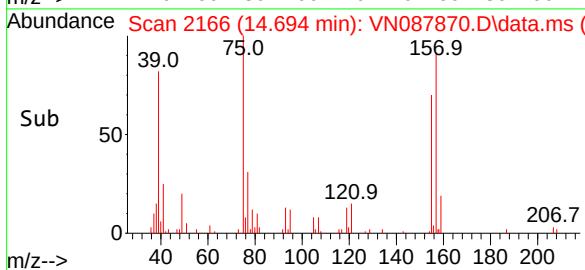
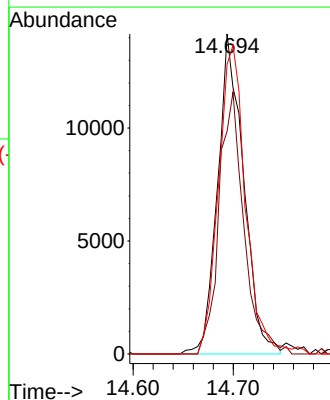
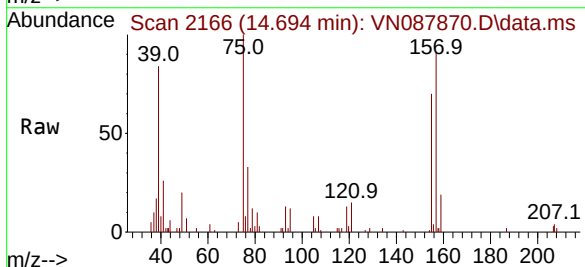
Tgt Ion: 75 Resp: 25535

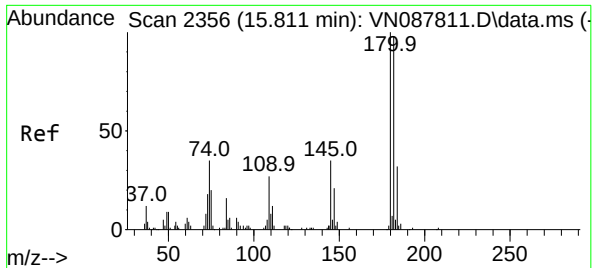
Ion Ratio Lower Upper

75 100

155 78.3 53.0 79.4

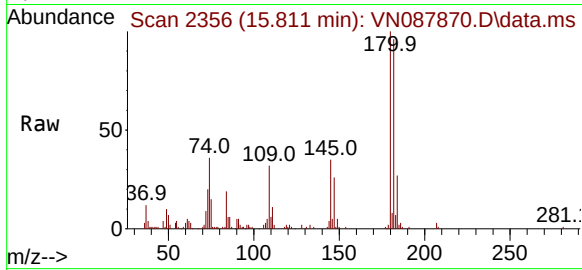
157 99.9 72.2 108.4





#89  
1,2,4-Trichlorobenzene  
Concen: 21.968 ug/l  
RT: 15.811 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

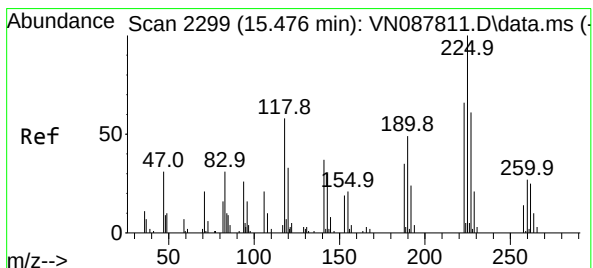
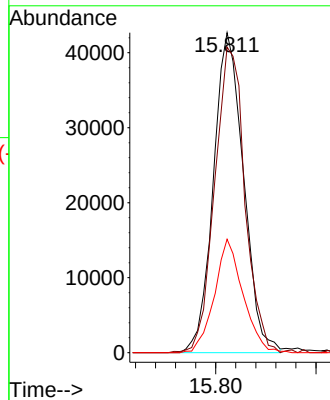
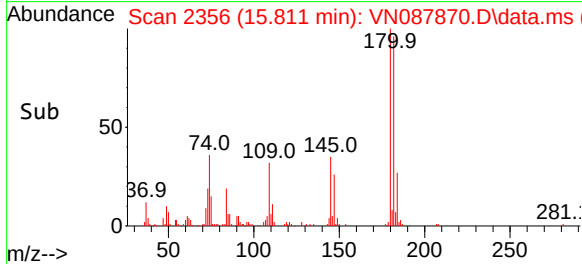
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



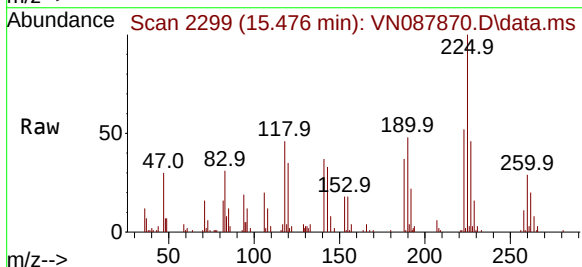
Tgt Ion:180 Resp: 8896  
Ion Ratio Lower Upper  
180 100  
182 95.4 74.6 111.8  
145 33.6 27.4 41.0

Manual Integrations  
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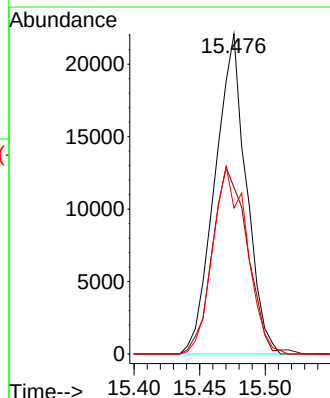
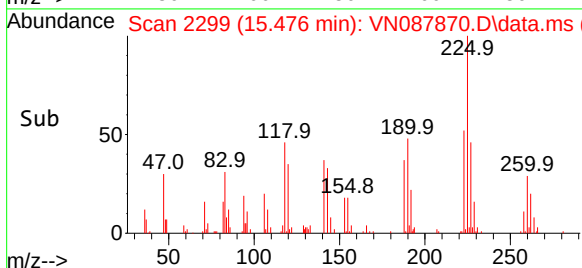
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

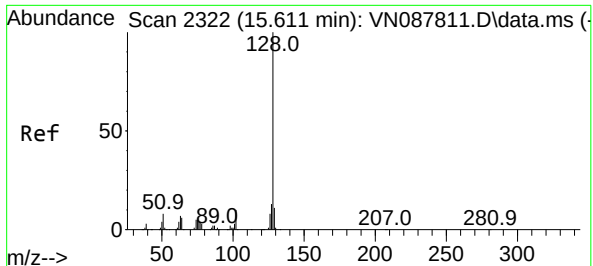


#90  
Hexachlorobutadiene  
Concen: 27.042 ug/l  
RT: 15.476 min Scan# 2299  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55



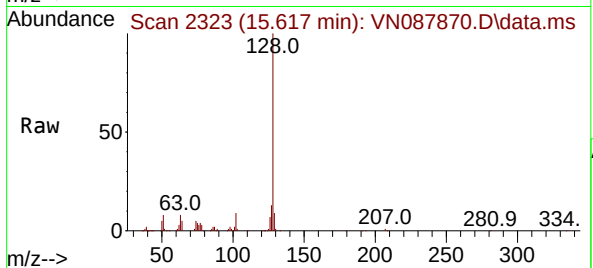
Tgt Ion:225 Resp: 36715  
Ion Ratio Lower Upper  
225 100  
223 64.8 0.0 118.2  
227 63.8 0.0 139.0





#91  
Naphthalene  
Concen: 20.336 ug/l  
RT: 15.617 min Scan# 2323  
Delta R.T. 0.006 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

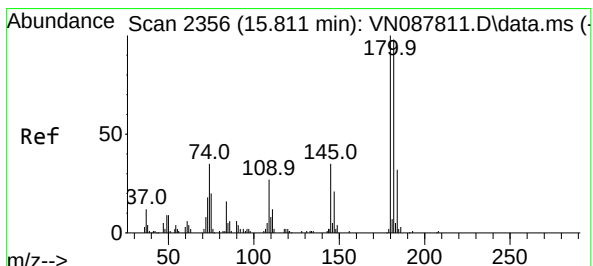
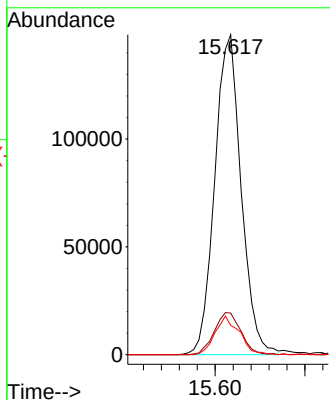
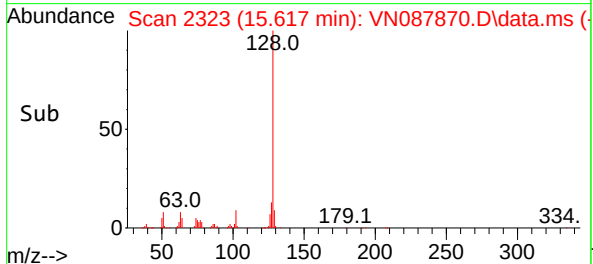
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBS01



Tgt Ion:128 Resp: 303214  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.2 15.4  
129 11.1 8.3 12.5

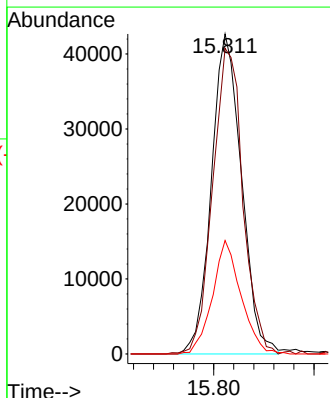
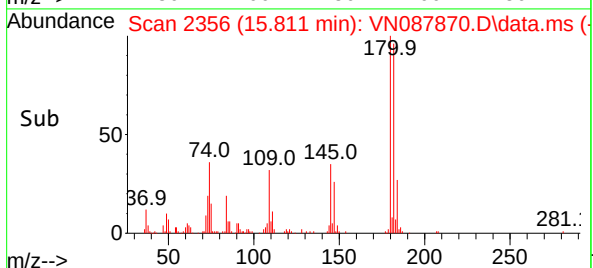
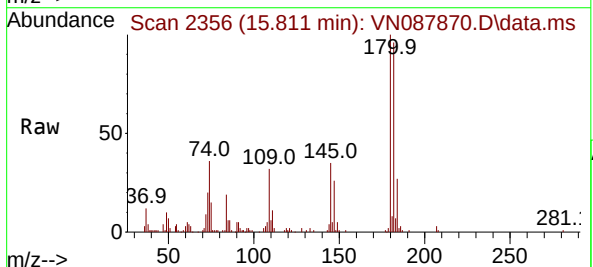
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 21.968 ug/l  
RT: 15.811 min Scan# 2356  
Delta R.T. -0.000 min  
Lab File: VN087870.D  
Acq: 17 Sep 2025 10:55

Tgt Ion:180 Resp: 88968  
Ion Ratio Lower Upper  
180 100  
182 95.4 0.0 186.4  
145 33.6 0.0 68.4



## Report of Analysis

|                    |                                        |                 |              |
|--------------------|----------------------------------------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |              |
| Project:           | NJ Waste Water PT                      | Date Received:  |              |
| Client Sample ID:  | VN0917WBSD01                           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBSD01                           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 5      Units:    mL                    | Final Vol:      | 5000      uL |
| Soil Aliquot Vol:  | uL                                     | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624      ID :    0.25              | Level :         | LOW          |
| Prep Method :      |                                        |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087871.D        | 1         | 09/17/25 11:30 | VN091725      |

| CAS Number     | Parameter                | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|--------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                          |       |           |      |            |       |
| 75-71-8        | Dichlorodifluoromethane  | 20.1  |           | 0.77 | 5.00       | ug/L  |
| 74-87-3        | Chloromethane            | 16.4  |           | 0.64 | 5.00       | ug/L  |
| 75-01-4        | Vinyl Chloride           | 15.8  |           | 0.83 | 5.00       | ug/L  |
| 74-83-9        | Bromomethane             | 14.3  |           | 0.80 | 5.00       | ug/L  |
| 75-00-3        | Chloroethane             | 14.7  |           | 2.30 | 5.00       | ug/L  |
| 75-69-4        | Trichlorofluoromethane   | 18.0  |           | 0.80 | 5.00       | ug/L  |
| 75-35-4        | 1,1-Dichloroethene       | 16.7  |           | 0.76 | 5.00       | ug/L  |
| 107-02-8       | Acrolein                 | 120   |           | 6.60 | 25.0       | ug/L  |
| 107-13-1       | Acrylonitrile            | 99.8  |           | 2.80 | 25.0       | ug/L  |
| 67-64-1        | Acetone                  | 89.7  |           | 4.60 | 25.0       | ug/L  |
| 75-15-0        | Carbon Disulfide         | 17.0  |           | 0.82 | 5.00       | ug/L  |
| 1634-04-4      | Methyl tert-Butyl Ether  | 20.4  |           | 0.77 | 5.00       | ug/L  |
| 75-09-2        | Methylene Chloride       | 20.5  |           | 0.86 | 5.00       | ug/L  |
| 156-60-5       | trans-1,2-Dichloroethene | 18.8  |           | 0.82 | 5.00       | ug/L  |
| 108-05-4       | Vinyl Acetate            | 100   |           | 3.20 | 25.0       | ug/L  |
| 75-34-3        | 1,1-Dichloroethane       | 19.9  |           | 0.68 | 5.00       | ug/L  |
| 78-93-3        | 2-Butanone               | 96.7  |           | 2.00 | 25.0       | ug/L  |
| 56-23-5        | Carbon Tetrachloride     | 20.2  |           | 0.74 | 5.00       | ug/L  |
| 594-20-7       | 2,2-Dichloropropane      | 20.2  |           | 0.66 | 5.00       | ug/L  |
| 156-59-2       | cis-1,2-Dichloroethene   | 19.9  |           | 0.80 | 5.00       | ug/L  |
| 67-66-3        | Chloroform               | 19.7  |           | 0.55 | 5.00       | ug/L  |
| 71-55-6        | 1,1,1-Trichloroethane    | 20.4  |           | 0.63 | 5.00       | ug/L  |
| 563-58-6       | 1,1-Dichloropropene      | 18.5  |           | 0.63 | 5.00       | ug/L  |
| 71-43-2        | Benzene                  | 18.9  |           | 0.45 | 5.00       | ug/L  |
| 107-06-2       | 1,2-Dichloroethane       | 18.6  |           | 0.50 | 5.00       | ug/L  |
| 79-01-6        | Trichloroethene          | 20.4  |           | 0.49 | 5.00       | ug/L  |
| 78-87-5        | 1,2-Dichloropropane      | 19.0  |           | 0.46 | 5.00       | ug/L  |
| 74-95-3        | Dibromomethane           | 19.0  |           | 0.59 | 5.00       | ug/L  |
| 75-27-4        | Bromodichloromethane     | 19.1  |           | 0.64 | 5.00       | ug/L  |
| 108-10-1       | 4-Methyl-2-Pentanone     | 99.6  |           | 3.00 | 25.0       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBSD01                           |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBSD01                           |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087871.D        | 1         | 09/17/25 11:30 | VN091725      |

| CAS Number  | Parameter                 | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|-------------|---------------------------|-------|-----------|------|------------|-------|
| 108-88-3    | Toluene                   | 19.8  |           | 0.46 | 5.00       | ug/L  |
| 10061-02-6  | t-1,3-Dichloropropene     | 19.1  |           | 0.72 | 5.00       | ug/L  |
| 10061-01-5  | cis-1,3-Dichloropropene   | 19.0  |           | 0.67 | 5.00       | ug/L  |
| 79-00-5     | 1,1,2-Trichloroethane     | 20.3  |           | 0.45 | 5.00       | ug/L  |
| 142-28-9    | 1,3-Dichloropropane       | 19.1  |           | 0.44 | 5.00       | ug/L  |
| 110-75-8    | 2-Chloroethyl vinyl ether | 92.5  |           | 4.60 | 25.0       | ug/L  |
| 591-78-6    | 2-Hexanone                | 99.3  |           | 3.20 | 25.0       | ug/L  |
| 124-48-1    | Dibromochloromethane      | 20.6  |           | 0.66 | 5.00       | ug/L  |
| 106-93-4    | 1,2-Dibromoethane         | 20.1  |           | 0.56 | 5.00       | ug/L  |
| 127-18-4    | Tetrachloroethene         | 22.3  |           | 0.84 | 5.00       | ug/L  |
| 108-90-7    | Chlorobenzene             | 20.8  |           | 0.47 | 5.00       | ug/L  |
| 630-20-6    | 1,1,1,2-Tetrachloroethane | 21.5  |           | 0.62 | 5.00       | ug/L  |
| 67-72-1     | Hexachloroethane          | 21.3  |           | 0.98 | 5.00       | ug/L  |
| 100-41-4    | Ethyl Benzene             | 20.1  |           | 0.56 | 5.00       | ug/L  |
| 179601-23-1 | m/p-Xylenes               | 41.8  |           | 1.30 | 10.0       | ug/L  |
| 1330-20-7   | Total Xylenes             | 62.1  |           | 1.97 | 15.0       | ug/L  |
| 95-47-6     | o-Xylene                  | 20.3  |           | 0.67 | 5.00       | ug/L  |
| 100-42-5    | Styrene                   | 19.7  |           | 0.72 | 5.00       | ug/L  |
| 75-25-2     | Bromoform                 | 20.9  |           | 0.94 | 5.00       | ug/L  |
| 98-82-8     | Isopropylbenzene          | 21.2  |           | 0.78 | 5.00       | ug/L  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane | 21.4  |           | 0.44 | 5.00       | ug/L  |
| 96-18-4     | 1,2,3-Trichloropropane    | 17.7  |           | 0.62 | 5.00       | ug/L  |
| 108-86-1    | Bromobenzene              | 21.6  |           | 0.59 | 5.00       | ug/L  |
| 103-65-1    | n-propylbenzene           | 20.9  |           | 0.67 | 5.00       | ug/L  |
| 95-49-8     | 2-Chlorotoluene           | 20.8  |           | 0.64 | 5.00       | ug/L  |
| 108-67-8    | 1,3,5-Trimethylbenzene    | 21.7  |           | 0.59 | 5.00       | ug/L  |
| 106-43-4    | 4-Chlorotoluene           | 20.9  |           | 0.62 | 5.00       | ug/L  |
| 98-06-6     | tert-butylbenzene         | 22.3  |           | 0.71 | 5.00       | ug/L  |
| 95-63-6     | 1,2,4-Trimethylbenzene    | 20.2  |           | 0.77 | 5.00       | ug/L  |
| 135-98-8    | sec-Butylbenzene          | 22.0  |           | 0.64 | 5.00       | ug/L  |
| 99-87-6     | p-Isopropyltoluene        | 22.5  |           | 0.70 | 5.00       | ug/L  |

### Report of Analysis

|                    |                                        |           |                 |              |
|--------------------|----------------------------------------|-----------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark |           | Date Collected: |              |
| Project:           | NJ Waste Water PT                      |           | Date Received:  |              |
| Client Sample ID:  | VN0917WBSD01                           |           | SDG No.:        | Q3015        |
| Lab Sample ID:     | VN0917WBSD01                           |           | Matrix:         | Water        |
| Analytical Method: | E624.1                                 |           | % Solid:        | 0            |
| Sample Wt/Vol:     | 5                                      | Units: mL | Final Vol:      | 5000 uL      |
| Soil Aliquot Vol:  |                                        | uL        | Test:           | VOCMS Group1 |
| GC Column:         | RXI-624                                | ID : 0.25 | Level :         | LOW          |
| Prep Method :      |                                        |           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VN087871.D        | 1         | 09/17/25 11:30 | VN091725      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------------|--------|-----------|----------|------------|---------|
| 541-73-1                  | 1,3-Dichlorobenzene         | 21.4   |           | 0.67     | 5.00       | ug/L    |
| 106-46-7                  | 1,4-Dichlorobenzene         | 21.8   |           | 0.81     | 5.00       | ug/L    |
| 104-51-8                  | n-Butylbenzene              | 22.5   |           | 0.82     | 5.00       | ug/L    |
| 95-50-1                   | 1,2-Dichlorobenzene         | 22.0   |           | 0.67     | 5.00       | ug/L    |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 21.7   |           | 0.86     | 5.00       | ug/L    |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 23.2   |           | 1.00     | 5.00       | ug/L    |
| 87-68-3                   | Hexachlorobutadiene         | 27.7   |           | 0.68     | 5.00       | ug/L    |
| 91-20-3                   | Naphthalene                 | 21.6   |           | 1.00     | 5.00       | ug/L    |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 23.2   |           | 1.10     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                             |        |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 28.8   |           | 91 - 110 | 96%        | SPK: 30 |
| 2037-26-5                 | Toluene-d8                  | 29.4   |           | 91 - 112 | 98%        | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene        | 30.4   |           | 63 - 112 | 101%       | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |         |
| 74-97-5                   | Bromochloromethane          | 52200  | 7.794     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene         | 279000 | 9.082     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5            | 250000 | 11.847    |          |            |         |
| 74-97-5                   | Bromochloromethane          | 52200  | 7.794     |          |            |         |

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\VN091725\  
 Data File : VN087871.D  
 Acq On : 17 Sep 2025 11:30  
 Operator : JC\MD  
 Sample : VN0917WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBSD01

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:08:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.794          | 128  | 52165      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 278561     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 250388     | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 128412     | 28.817   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 96.067%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 122450     | 30.415   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 101.367% |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 342293     | 29.396   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 98.000%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 65259      | 20.129   | ug/l   | 99       |
| 3) Chloromethane             | 2.383          | 50   | 55927      | 16.432   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.542          | 62   | 60861      | 15.819   | ug/l   | 98       |
| 5) Bromomethane              | 2.977          | 94   | 32335      | 14.327   | ug/l   | 89       |
| 6) Chloroethane              | 3.136          | 64   | 38628      | 14.691   | ug/l   | 87       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 101568     | 18.011   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.953          | 74   | 38295      | 16.081   | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 58735      | 19.229   | ug/l   | 75       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 52514      | 16.675   | ug/l   | 94       |
| 11) Methyl Iodide            | 4.577          | 142  | 35959      | 16.131   | ug/l   | 82       |
| 12) Methyl Acetate           | 5.012          | 43   | 103011     | 21.220   | ug/l   | 97       |
| 13) Acrolein                 | 4.177          | 56   | 104244m    | 120.607  | ug/l   |          |
| 14) Acrylonitrile            | 5.706          | 53   | 208602     | 99.833   | ug/l   | 97       |
| 15) Acetone                  | 4.430          | 58   | 58501m     | 89.748   | ug/l   |          |
| 16) Carbon Disulfide         | 4.706          | 76   | 147396     | 17.047   | ug/l # | 89       |
| 17) Allyl chloride           | 5.012          | 41   | 93289      | 18.137   | ug/l   | 94       |
| 18) Methylene Chloride       | 5.265          | 84   | 72990      | 20.461   | ug/l   | 92       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 60253      | 18.760   | ug/l   | 91       |
| 20) Diisopropyl ether        | 6.665          | 45   | 220158     | 18.613   | ug/l # | 93       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 129006     | 19.916   | ug/l # | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 77562      | 19.896   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 5.512          | 59   | 77835m     | 105.377  | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.783          | 73   | 229615     | 20.423   | ug/l # | 83       |
| 25) Chloroform               | 7.947          | 83   | 133855     | 19.742   | ug/l   | 89       |
| 26) Cyclohexane              | 8.235          | 56   | 95526      | 19.365   | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 83670      | 18.482   | ug/l   | 96       |
| 30) 2-Butanone               | 7.471          | 43   | 301515     | 96.683   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.477          | 77   | 110028     | 20.162   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 116982     | 20.382   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 96571      | 20.180   | ug/l   | 97       |
| 34) Benzene                  | 8.588          | 78   | 275879     | 18.855   | ug/l   | 94       |
| 35) Methacrylonitrile        | 7.765          | 41   | 58704      | 17.996   | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 102965     | 18.631   | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 66677      | 20.386   | ug/l   | 98       |
| 38) Methylcyclohexane        | 9.582          | 83   | 98311      | 19.722   | ug/l   | 96       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 71195      | 18.998   | ug/l   | 97       |
| 40) Dibromomethane           | 9.688          | 93   | 53021      | 19.012   | ug/l   | 93       |
| 41) Bromodichloromethane     | 9.871          | 83   | 108842     | 19.095   | ug/l # | 93       |
| 42) Vinyl Acetate            | 6.588          | 43   | 1043406    | 100.137  | ug/l   | 99       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087871.D  
 Acq On : 17 Sep 2025 11:30  
 Operator : JC\MD  
 Sample : VN0917WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0917WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/18/2025  
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:08:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 123992   | 19.460  | ug/l  | 99       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 191251   | 19.147  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 9.676  | 88   | 27423    | 435.342 | ug/l  | 94       |
| 46) Methyl methacrylate       | 9.665  | 41   | 83421    | 18.119  | ug/l  | 91       |
| 47) n-amyl Acetate            | 12.594 | 43   | 94473m   | 13.996  | ug/l  |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 113205   | 19.122  | ug/l  | 89       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 115068   | 18.977  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 73088    | 20.291  | ug/l  | 97       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 102178   | 18.228  | ug/l  | 96       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 119718   | 19.140  | ug/l  | 97       |
| 53) Dibromochloromethane      | 11.341 | 129  | 83149    | 20.588  | ug/l  | 92       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 75402    | 20.118  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 297054   | 92.489  | ug/l  | 97       |
| 56) Bromoform                 | 12.559 | 173  | 54997    | 20.852  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.423 | 43   | 589811   | 99.624  | ug/l  | 98       |
| 59) 2-Hexanone                | 11.176 | 43   | 384238   | 99.322  | ug/l  | 96       |
| 61) Tetrachloroethene         | 11.082 | 164  | 55692    | 22.340  | ug/l  | 94       |
| 62) Toluene                   | 10.612 | 91   | 300459   | 19.838  | ug/l  | 98       |
| 64) Chlorobenzene             | 11.870 | 112  | 193335   | 20.798  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 70373    | 21.503  | ug/l  | 95       |
| 66) Ethyl Benzene             | 11.941 | 91   | 328182   | 20.085  | ug/l  | 94       |
| 67) m/p-Xylenes               | 12.053 | 106  | 253304   | 41.763  | ug/l  | 92       |
| 68) o-Xylene                  | 12.376 | 106  | 119443   | 20.311  | ug/l  | 100      |
| 69) Styrene                   | 12.388 | 104  | 201474   | 19.712  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.676 | 105  | 315847   | 21.182  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.917 | 83   | 114474   | 21.355  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 93013m   | 17.671  | ug/l  |          |
| 73) Bromobenzene              | 12.959 | 156  | 78747    | 21.585  | ug/l  | 90       |
| 74) n-propylbenzene           | 13.012 | 91   | 393403   | 20.910  | ug/l  | 97       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 235172   | 20.768  | ug/l  | 95       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 272968   | 21.678  | ug/l  | 97       |
| 77) t-1,4-Dichloro-2-butene   | 12.717 | 75   | 36462    | 20.524  | ug/l  | 93       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 239153   | 20.949  | ug/l  | 98       |
| 79) tert-butylbenzene         | 13.417 | 119  | 234797   | 22.265  | ug/l  | 95       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 261053   | 20.222  | ug/l  | 95       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 341990   | 22.048  | ug/l  | 96       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 287495   | 22.495  | ug/l  | 97       |
| 83) 1,3-Dichlorobenzene       | 13.711 | 146  | 150290   | 21.368  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 153609   | 21.789  | ug/l  | 97       |
| 85) n-Butylbenzene            | 14.035 | 91   | 276503   | 22.508  | ug/l  | 97       |
| 86) Hexachloroethane          | 14.306 | 117  | 55330    | 21.315  | ug/l  | 90       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 146033   | 22.015  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 25828    | 21.711  | ug/l  | 93       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 87612    | 23.221  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 35041    | 27.704  | ug/l  | 93       |
| 91) Naphthalene               | 15.617 | 128  | 300116   | 21.607  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 87612    | 23.221  | ug/l  | 98       |

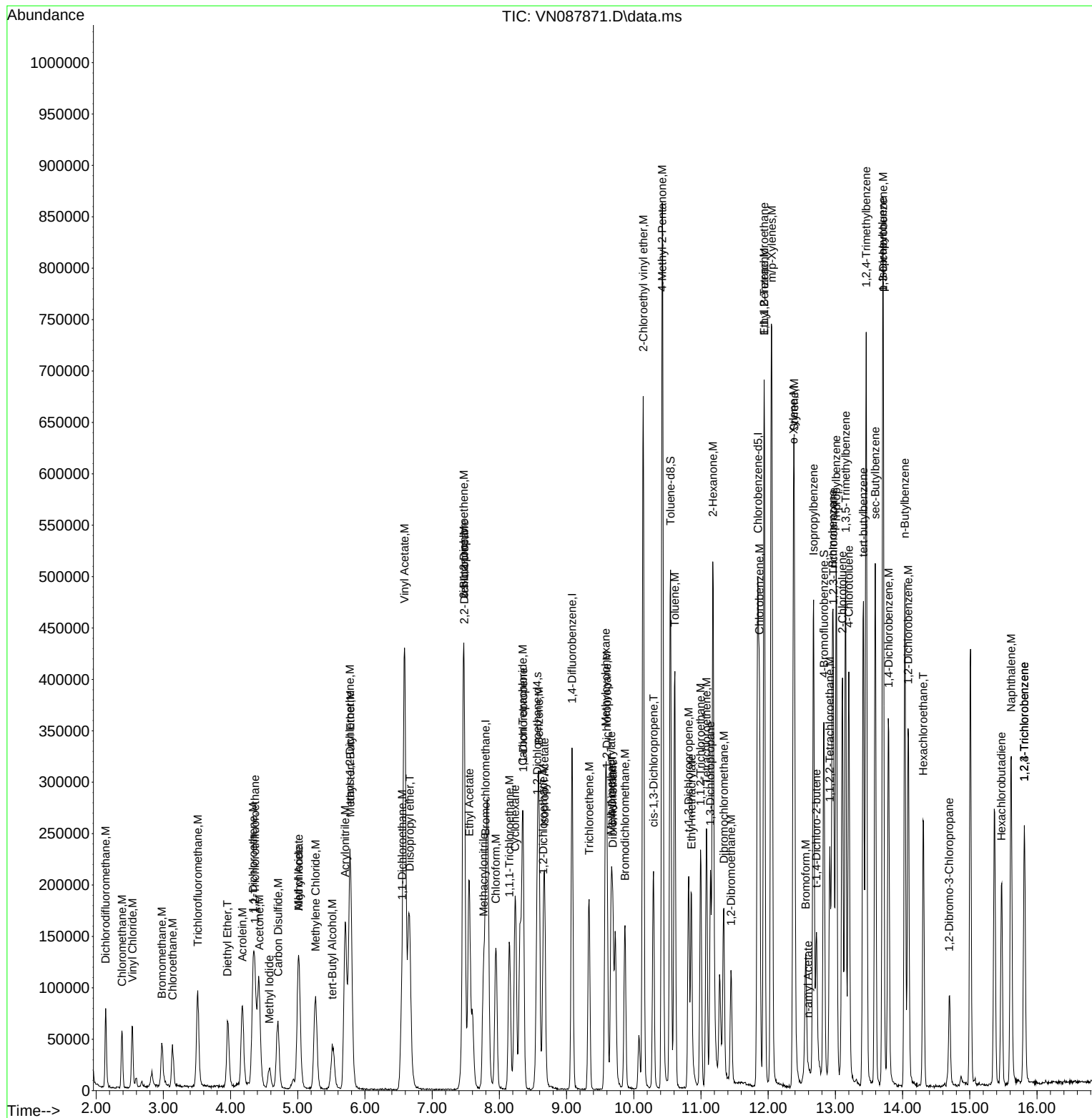
(#) = qualifier out of range (m) = manual integration (+) = signals summed

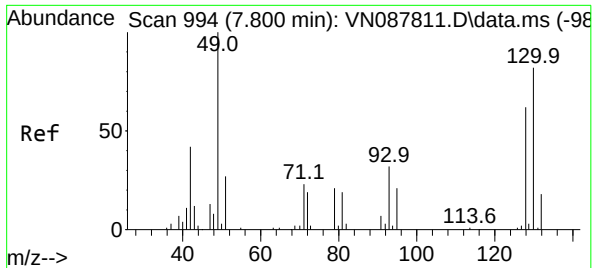


**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
VN0917WBSD01

## Manual Integrations APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025





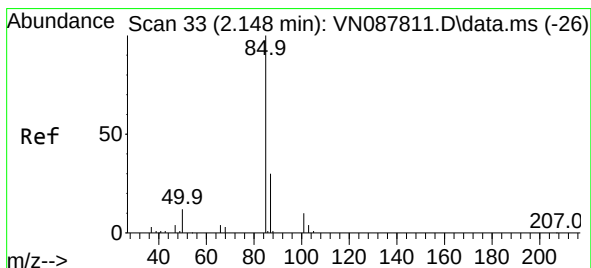
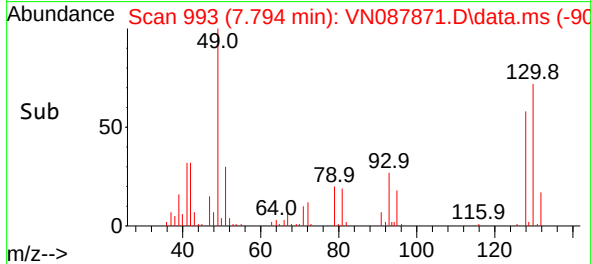
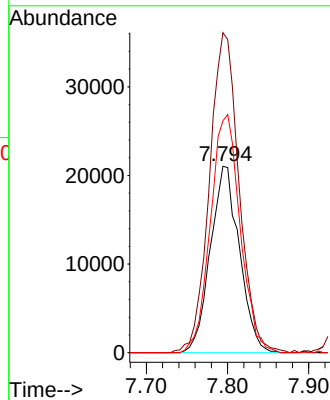
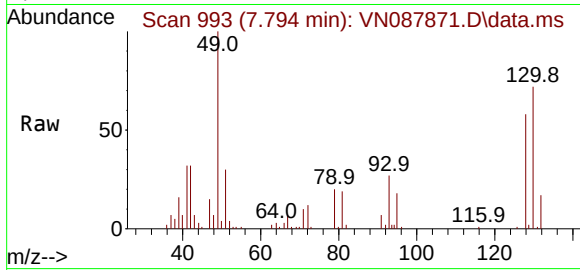
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.794 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

| Tgt Ion: | 128   | Resp: | 5216  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 175.4 | 0.0   | 464.3 |
| 130      | 131.2 | 0.0   | 300.5 |

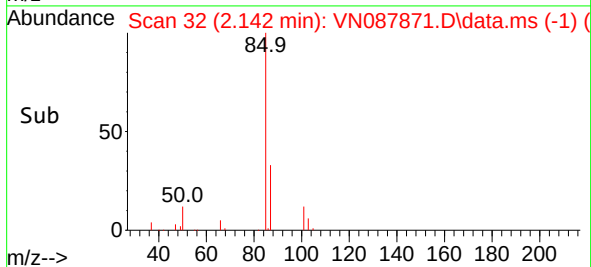
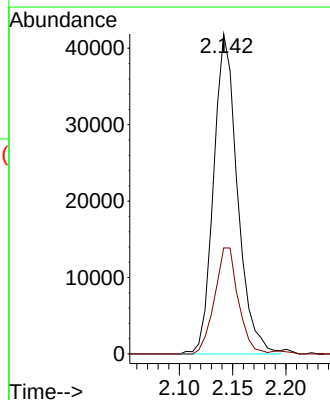
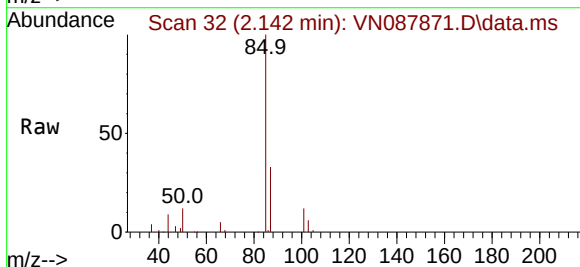
Manual Integrations  
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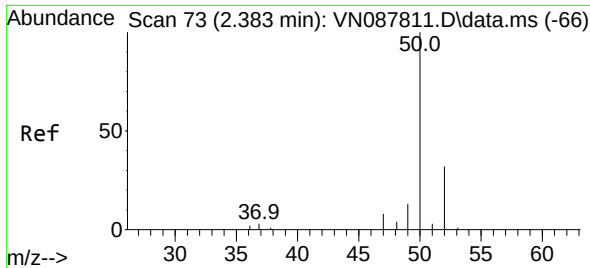
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#2  
Dichlorodifluoromethane  
Concen: 20.129 ug/l  
RT: 2.142 min Scan# 32  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

| Tgt Ion: | 85    | Resp: | 65259 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 33.1  | 16.8  | 50.4  |





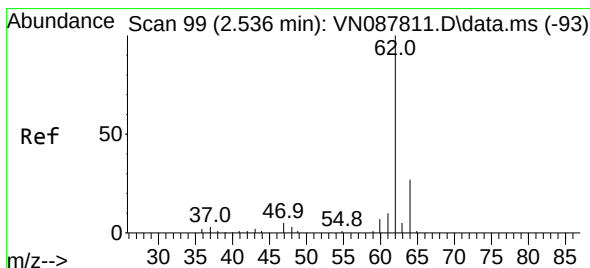
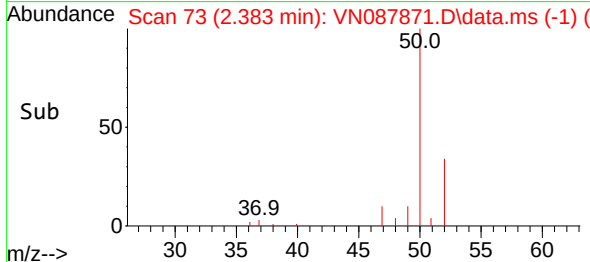
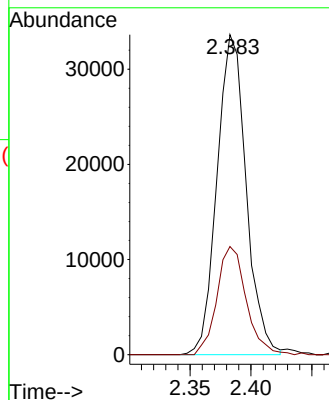
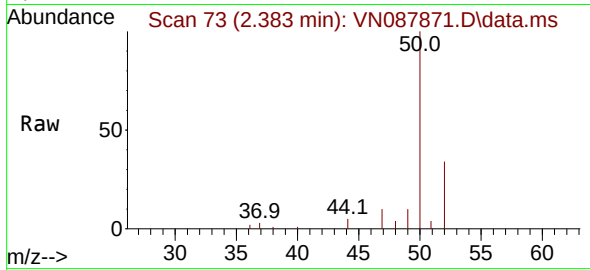
#3  
Chloromethane  
Concen: 16.432 ug/l  
RT: 2.383 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 50 Resp: 5592  
Ion Ratio Lower Upper  
50 100  
52 33.8 26.6 40.0

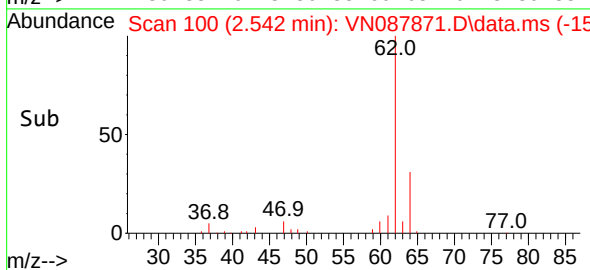
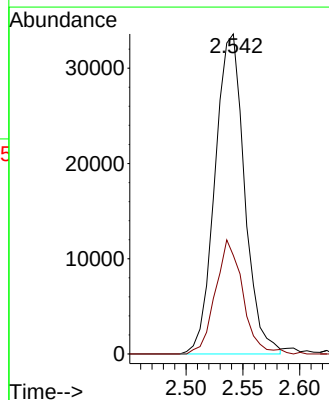
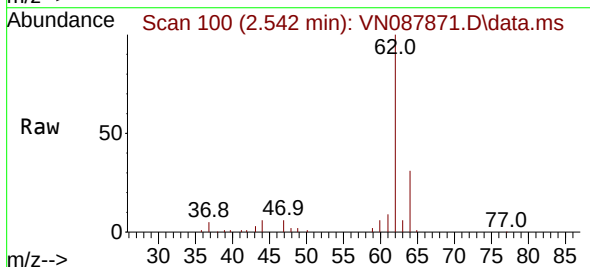
Manual Integrations  
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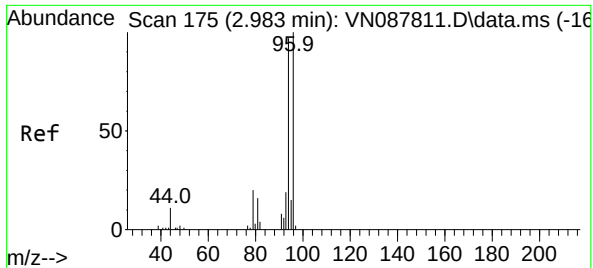
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#4  
Vinyl Chloride  
Concen: 15.819 ug/l  
RT: 2.542 min Scan# 100  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 62 Resp: 60861  
Ion Ratio Lower Upper  
62 100  
64 30.8 25.5 38.3





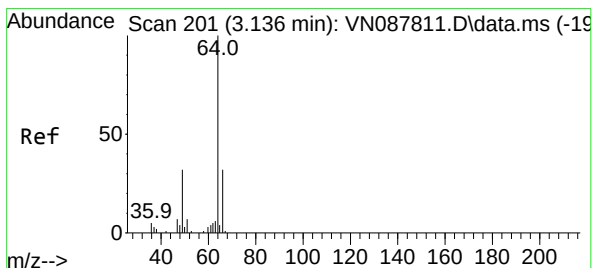
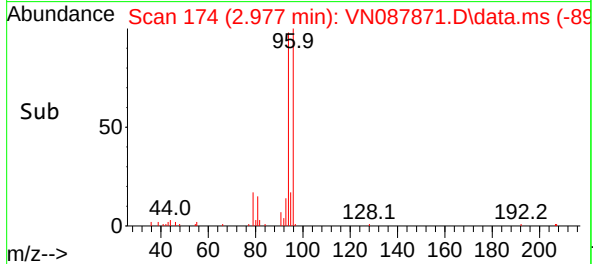
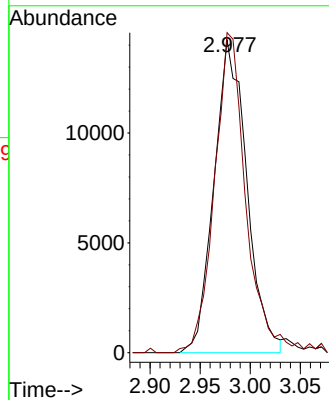
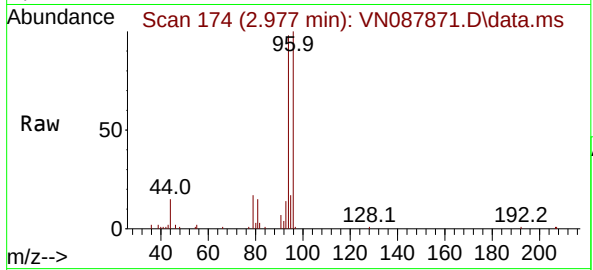
#5  
Bromomethane  
Concen: 14.327 ug/l  
RT: 2.977 min Scan# 174  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 94 Resp: 3233  
Ion Ratio Lower Upper  
94 100  
96 101.1 72.2 108.4

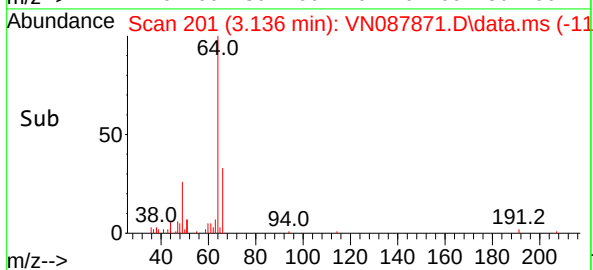
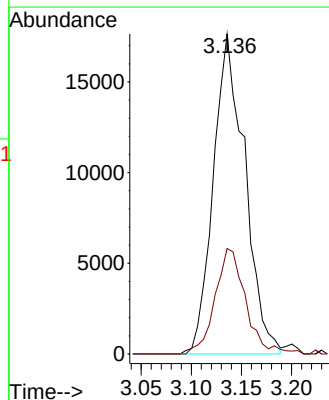
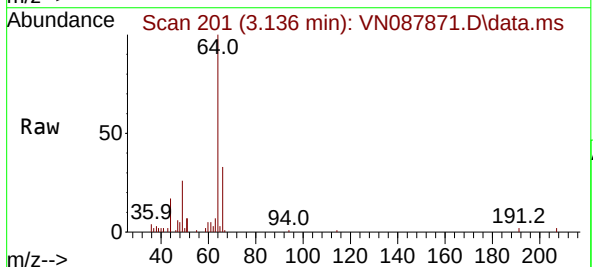
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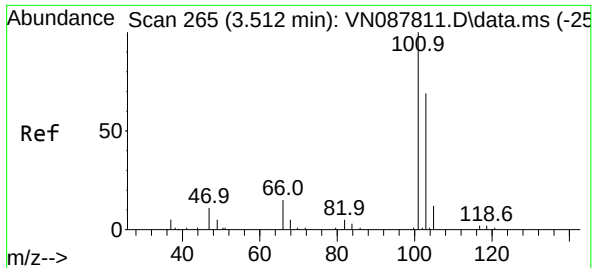
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#6  
Chloroethane  
Concen: 14.691 ug/l  
RT: 3.136 min Scan# 201  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 64 Resp: 38628  
Ion Ratio Lower Upper  
64 100  
66 33.0 32.8 49.2





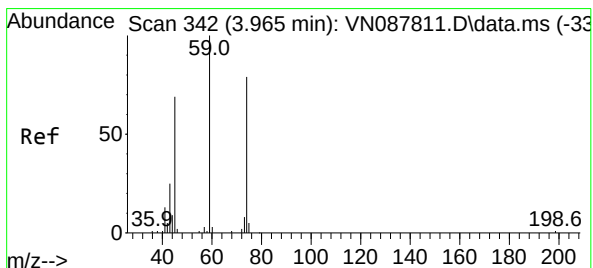
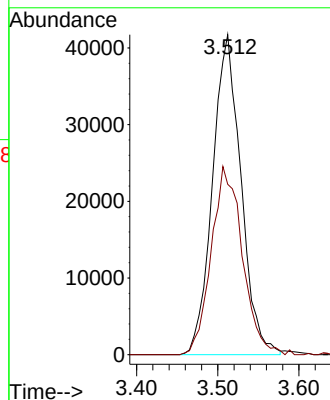
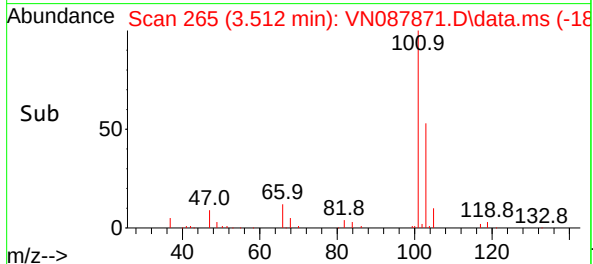
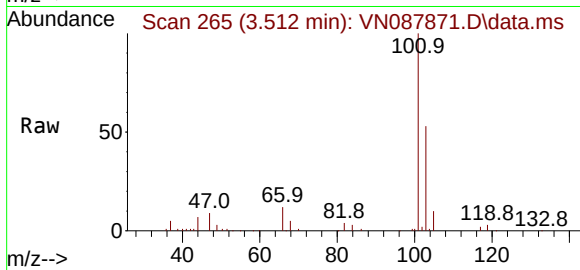
#7  
Trichlorofluoromethane  
Concen: 18.011 ug/l  
RT: 3.512 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion:101 Resp: 10156  
Ion Ratio Lower Upper  
101 100  
103 53.2 45.7 68.5

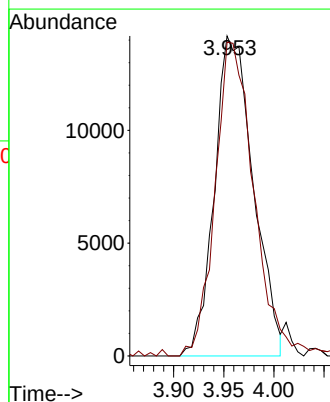
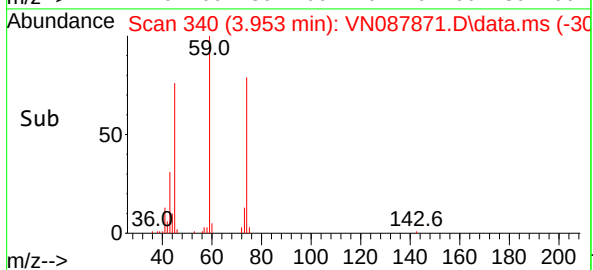
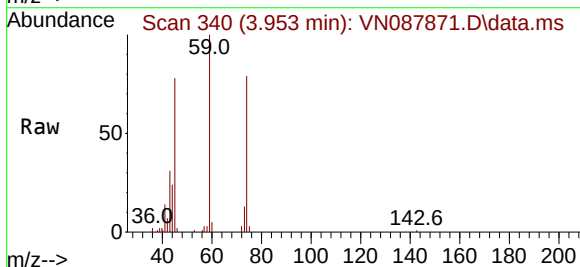
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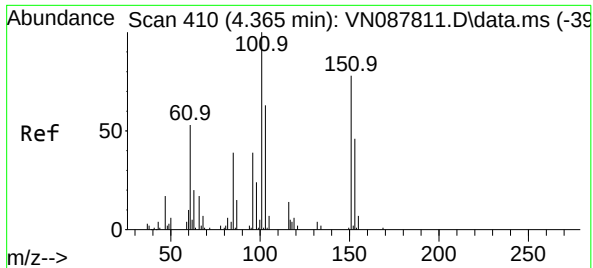
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#8  
Diethyl Ether  
Concen: 16.081 ug/l  
RT: 3.953 min Scan# 340  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 74 Resp: 38295  
Ion Ratio Lower Upper  
74 100  
45 96.3 20.4 183.8





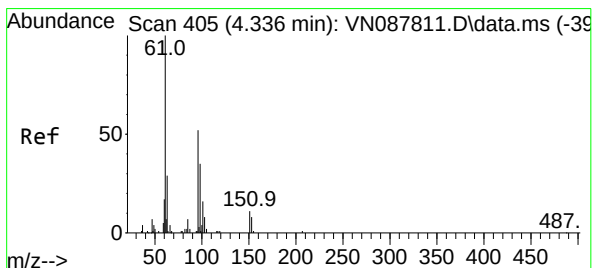
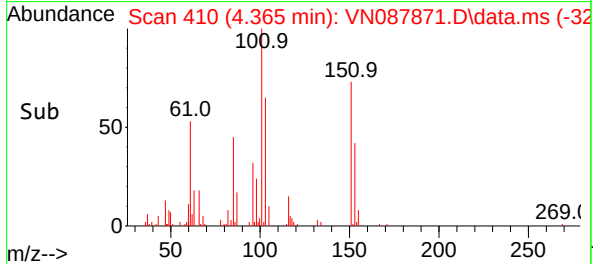
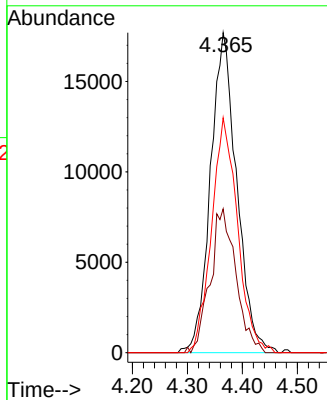
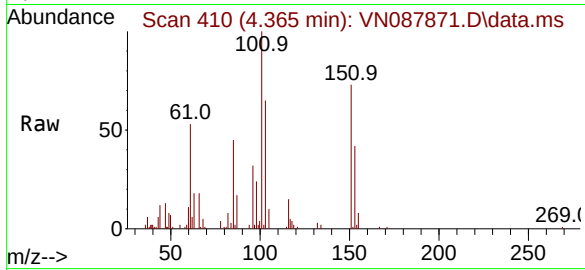
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 19.229 ug/l  
RT: 4.365 min Scan# 410  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 44.1  | 0.0   | 95.6  |
| 151     | 72.3  | 0.0   | 85.8  |

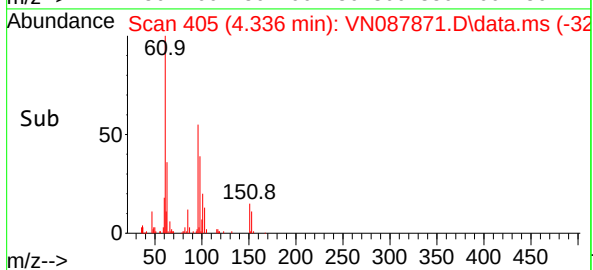
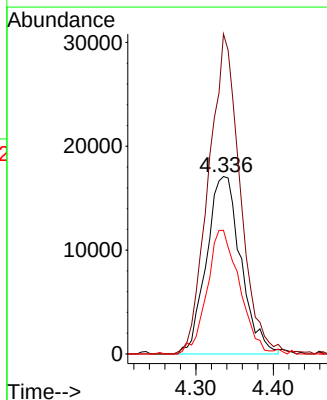
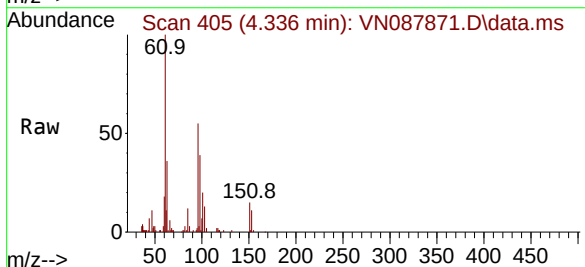
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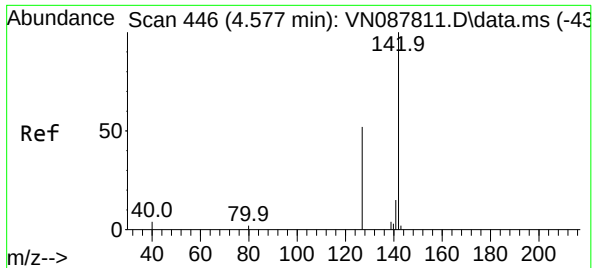
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#10  
1,1-Dichloroethene  
Concen: 16.675 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 179.2 | 135.9 | 203.9 |
| 98      | 69.7  | 59.2  | 88.8  |





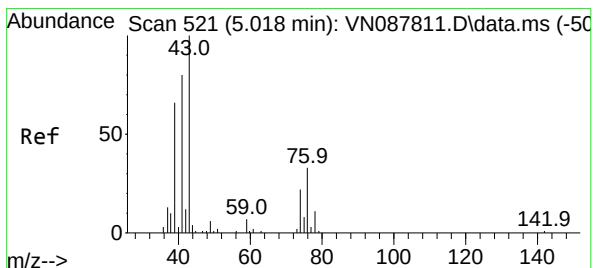
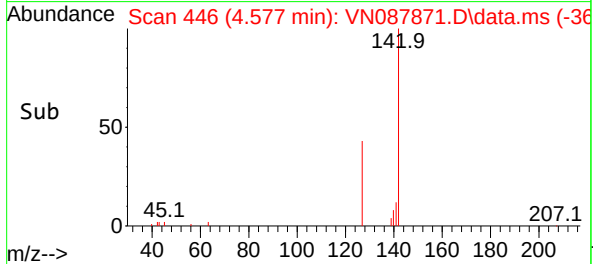
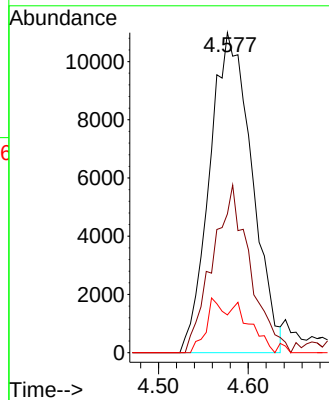
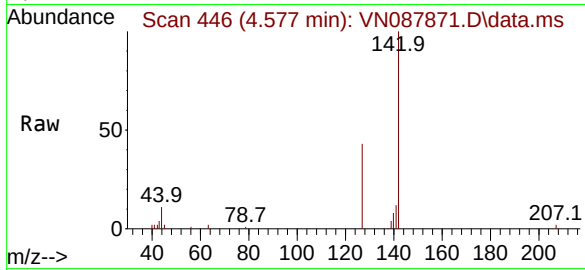
#11  
Methyl Iodide  
Concen: 16.131 ug/l  
RT: 4.577 min Scan# 446  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 42.7  | 27.9  | 83.7  |
| 141     | 10.8  | 9.6   | 28.8  |

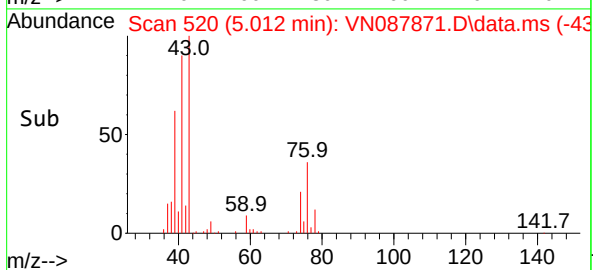
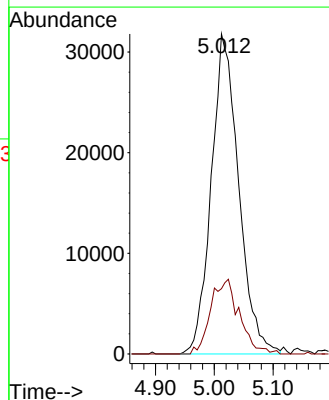
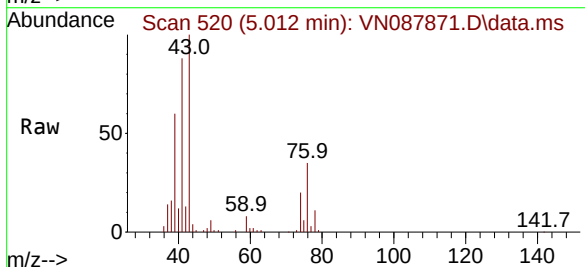
Manual Integrations  
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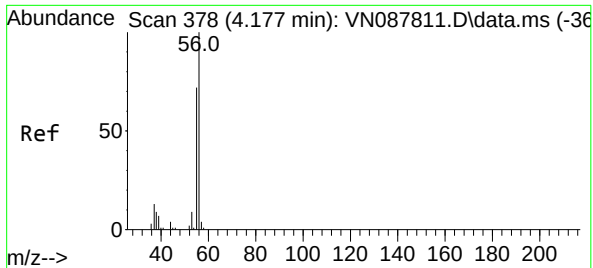
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#12  
Methyl Acetate  
Concen: 21.220 ug/l  
RT: 5.012 min Scan# 520  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 20.5  | 17.5  | 26.3  |





#13

Acrolein

Concen: 120.607 ug/l m

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 56 Resp: 104244

Ion Ratio Lower Upper

56 100

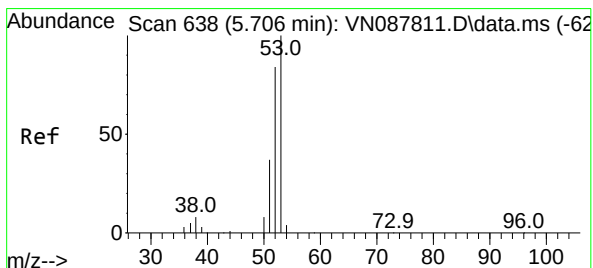
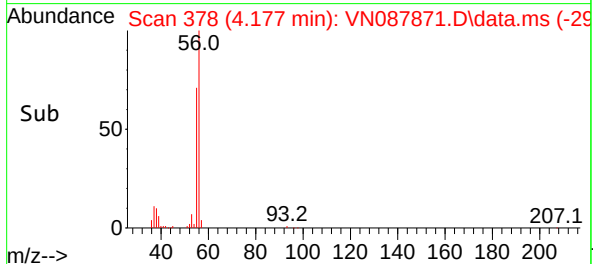
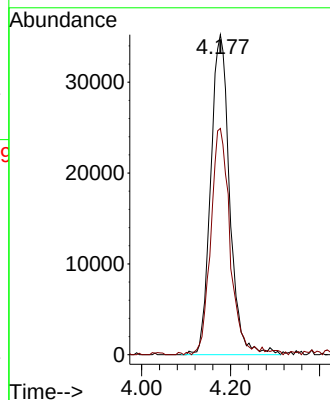
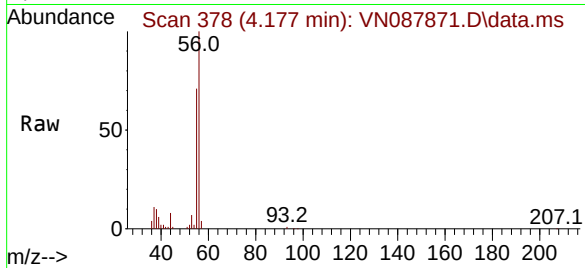
55 0.1 28.6 42.8

Manual Integrations

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Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Acrylonitrile

Concen: 99.833 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.012 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

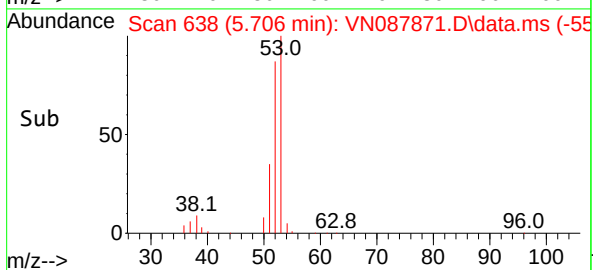
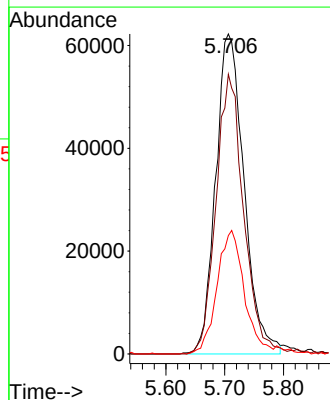
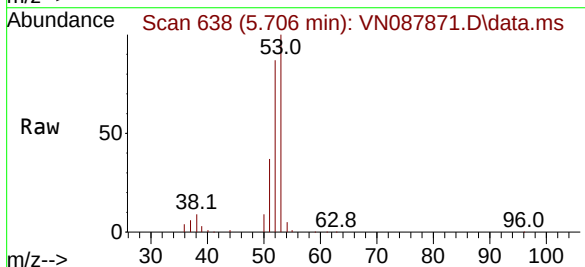
Tgt Ion: 53 Resp: 208602

Ion Ratio Lower Upper

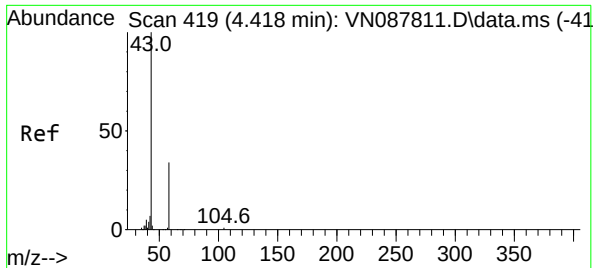
53 100

52 84.9 40.9 122.7

51 37.1 18.1 54.1

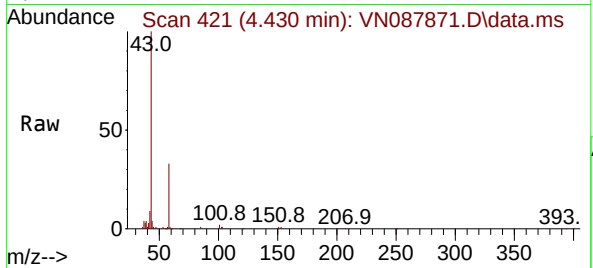






#15  
Acetone  
Concen: 89.748 ug/l m  
RT: 4.430 min Scan# 419  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

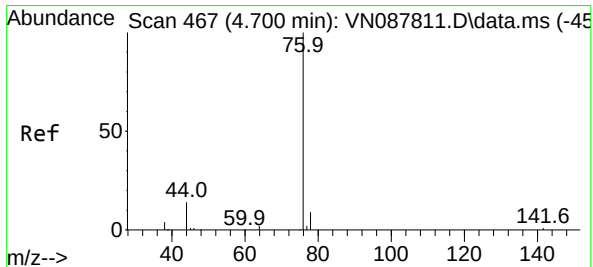
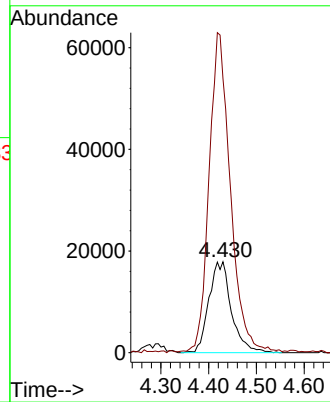
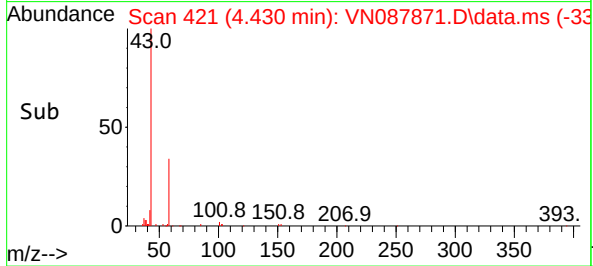
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



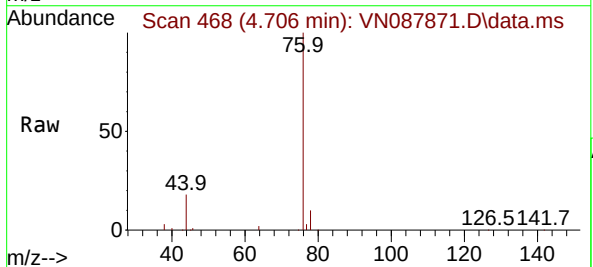
Tgt Ion: 58 Resp: 5850  
Ion Ratio Lower Upper  
58 100  
43 301.7 250.6 376.0

Manual Integrations  
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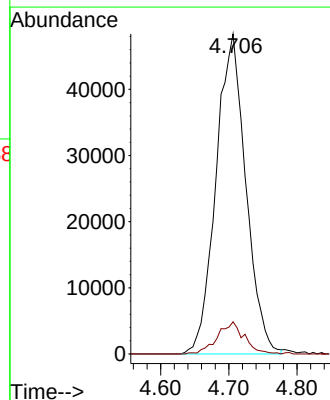
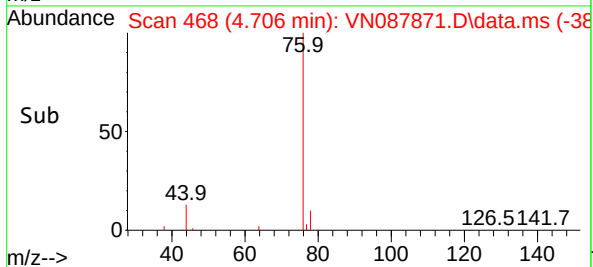
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

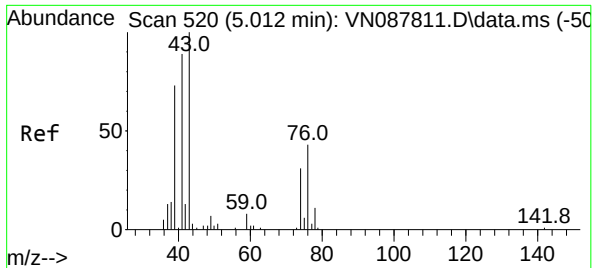


#16  
Carbon Disulfide  
Concen: 17.047 ug/l  
RT: 4.706 min Scan# 468  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion: 76 Resp: 147396  
Ion Ratio Lower Upper  
76 100  
78 10.1 5.0 7.6#





#17

Allyl chloride

Concen: 18.137 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

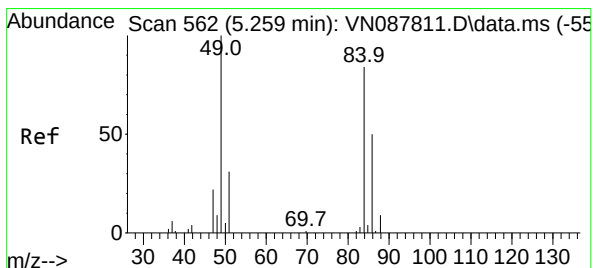
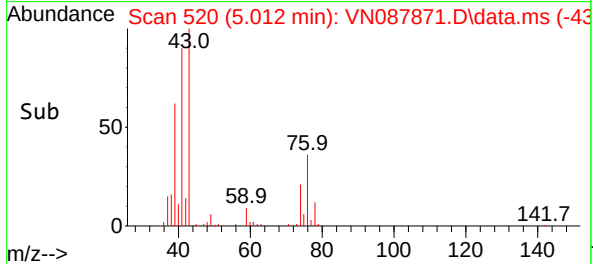
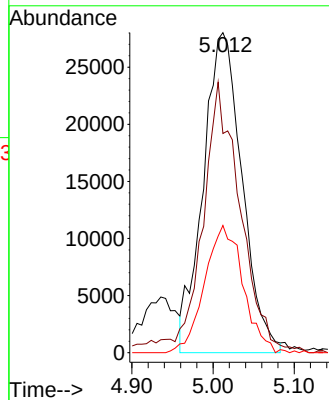
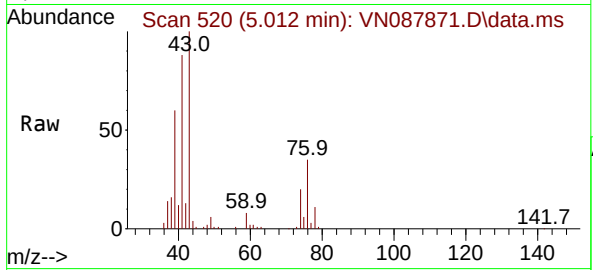
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 93289 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 68.2  | 36.7  | 110.1 |
| 76       | 40.0  | 18.3  | 54.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methylene Chloride

Concen: 20.461 ug/l

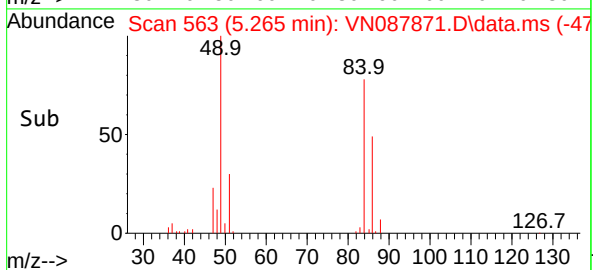
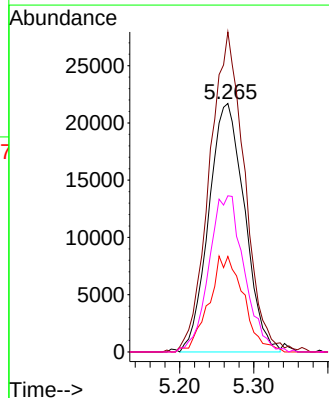
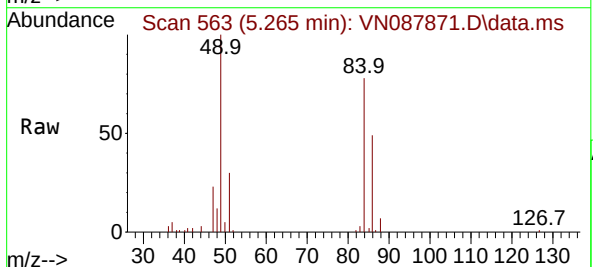
RT: 5.265 min Scan# 563

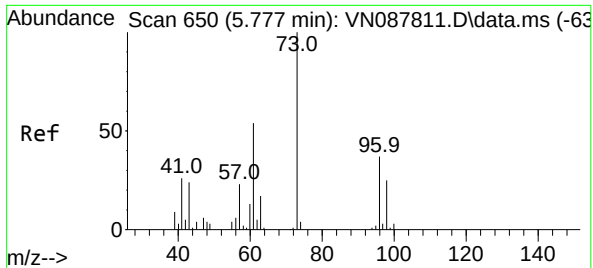
Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 72990 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.6 | 114.1 | 171.1 |
| 51       | 37.2  | 30.2  | 45.4  |
| 86       | 61.4  | 50.7  | 76.1  |





#19

trans-1,2-Dichloroethene

Concen: 18.760 ug/l

RT: 5.777 min Scan# 6025

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 96 Resp: 6025

Ion Ratio Lower Upper

96 100

61 144.0 106.4 159.6

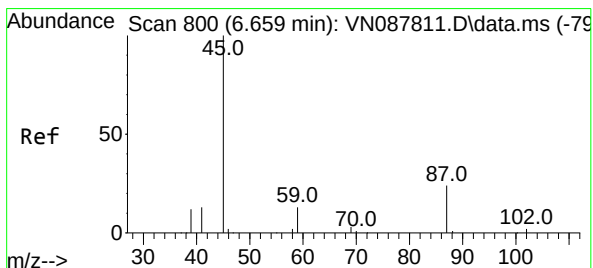
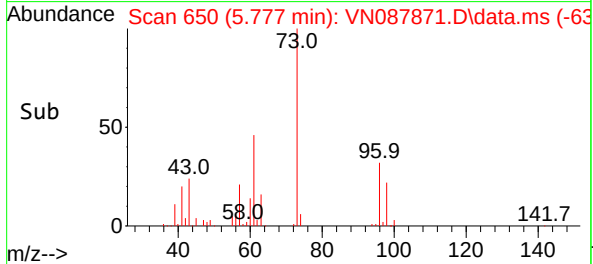
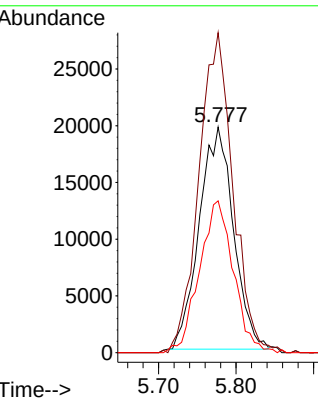
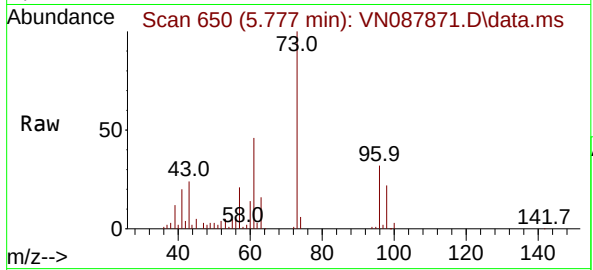
98 67.0 48.9 73.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Diisopropyl ether

Concen: 18.613 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.006 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Tgt Ion: 45 Resp: 220158

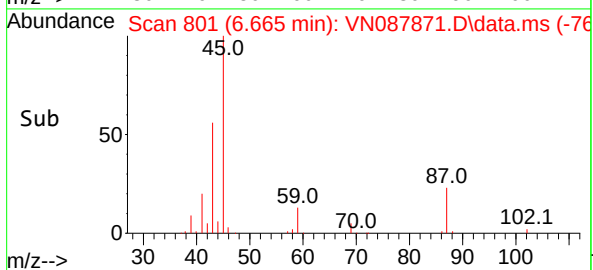
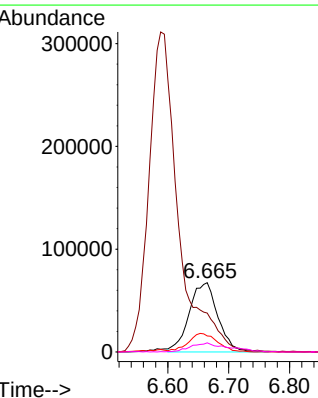
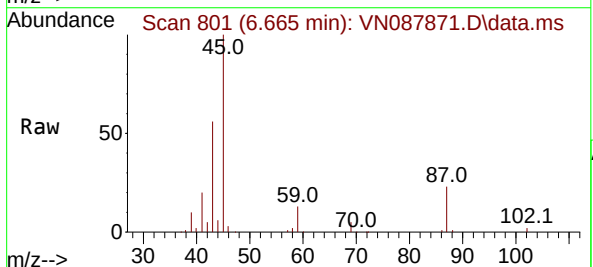
Ion Ratio Lower Upper

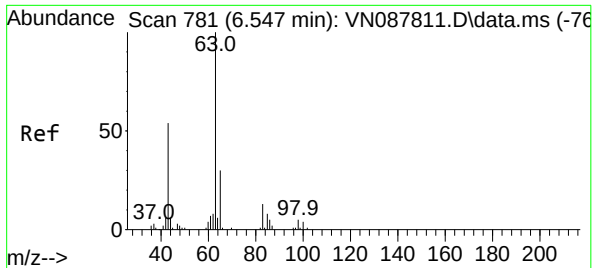
45 100

43 55.0 49.5 74.3

87 23.2 18.8 28.2

59 13.0 8.6 13.0#





#21

1,1-Dichloroethane

Concen: 19.916 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 63 Resp: 129000

Ion Ratio Lower Upper

63 100

98 6.3 2.9 8.8

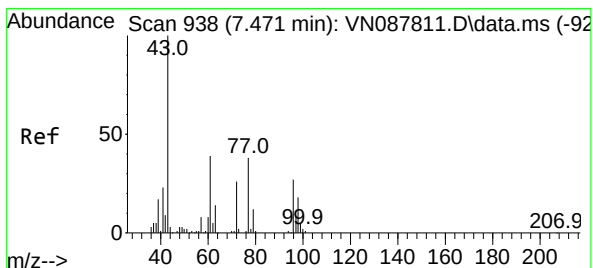
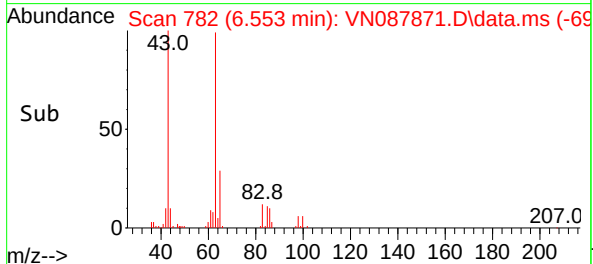
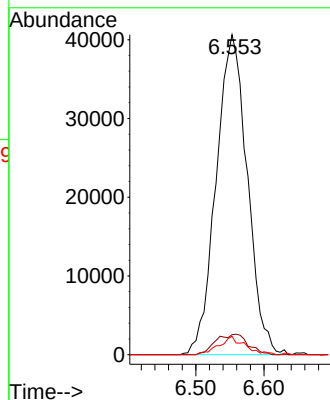
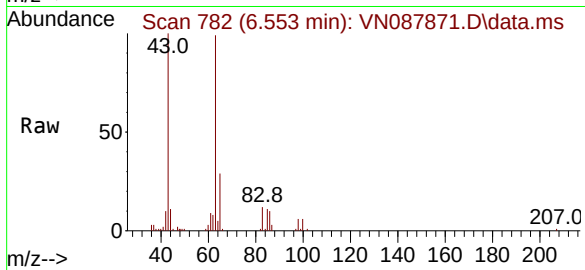
100 5.7 1.8 5.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

cis-1,2-Dichloroethene

Concen: 19.896 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.006 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

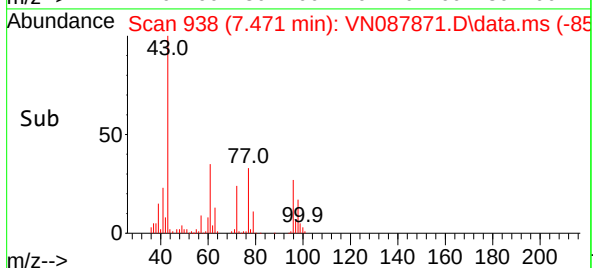
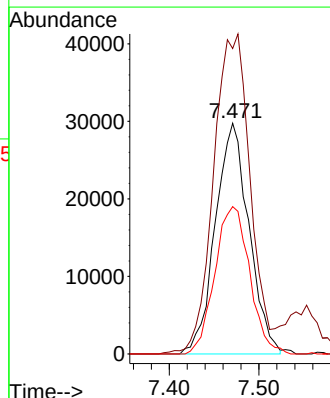
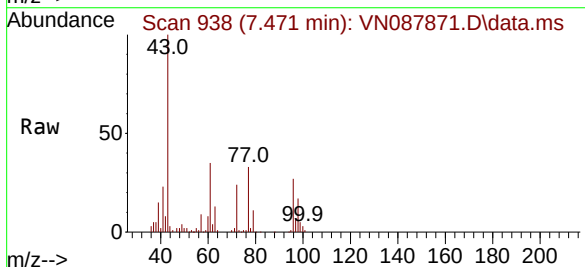
Tgt Ion: 96 Resp: 77562

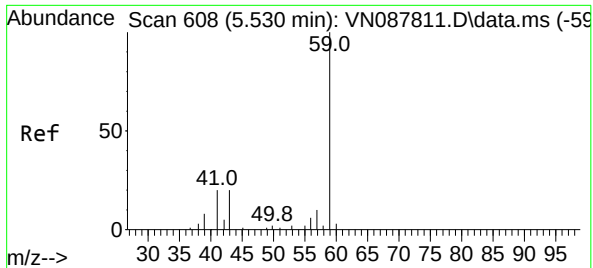
Ion Ratio Lower Upper

96 100

61 149.4 118.2 177.2

98 65.9 51.6 77.4





#23

tert-Butyl Alcohol

Concen: 105.377 ug/l m

RT: 5.512 min Scan# 608

Delta R.T. -0.018 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 59 Resp: 7783

Ion Ratio Lower Upper

59 100

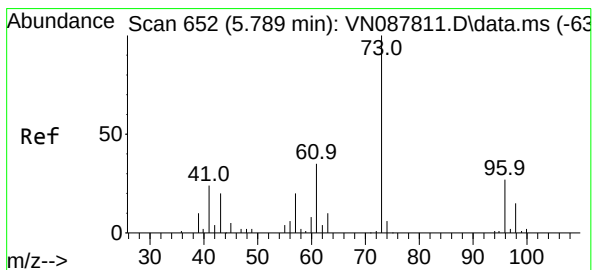
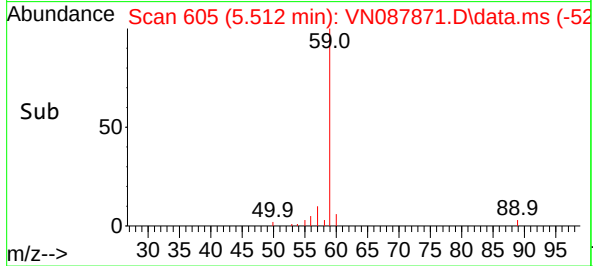
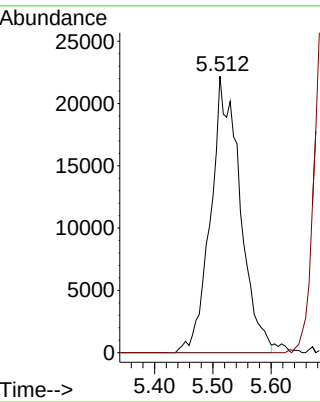
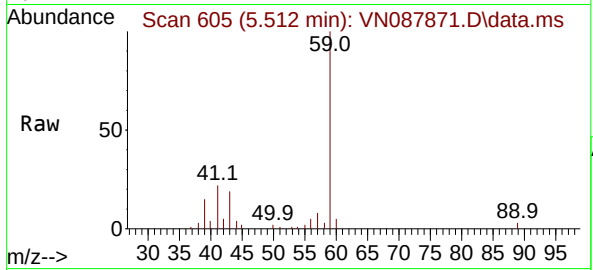
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

Methyl tert-Butyl Ether

Concen: 20.423 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN087871.D

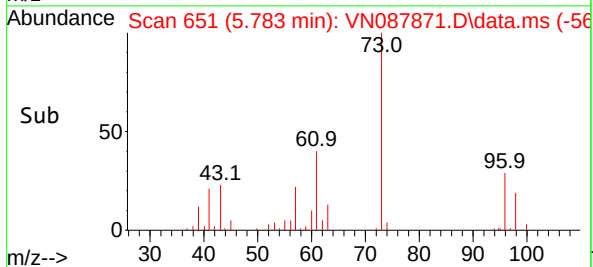
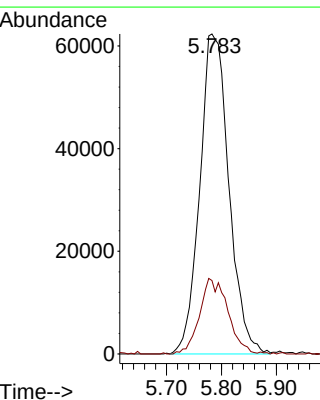
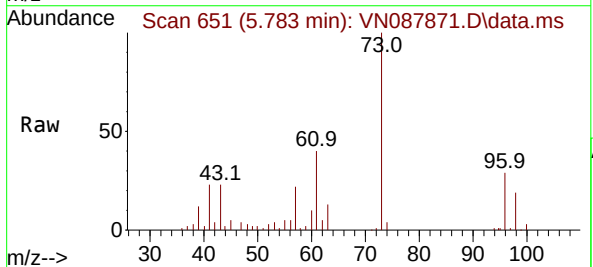
Acq: 17 Sep 2025 11:30

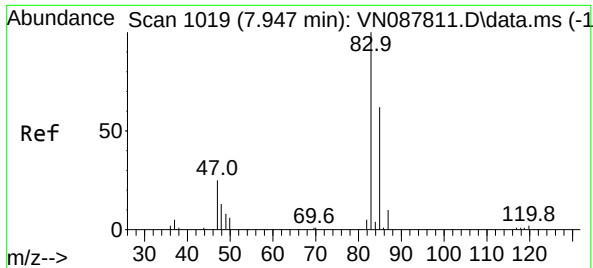
Tgt Ion: 73 Resp: 229615

Ion Ratio Lower Upper

73 100

43 12.9 16.8 25.2#





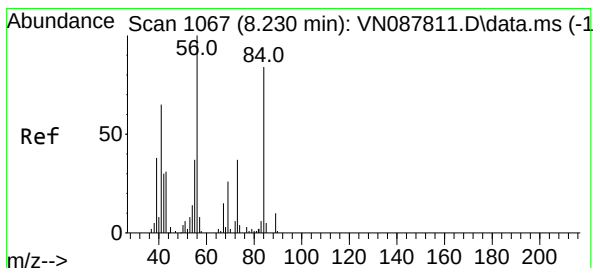
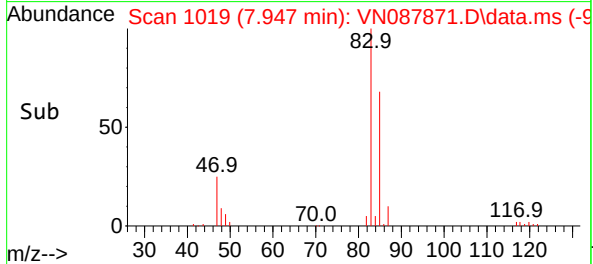
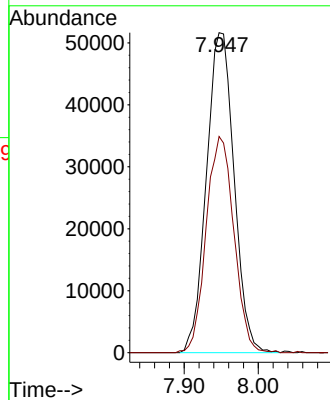
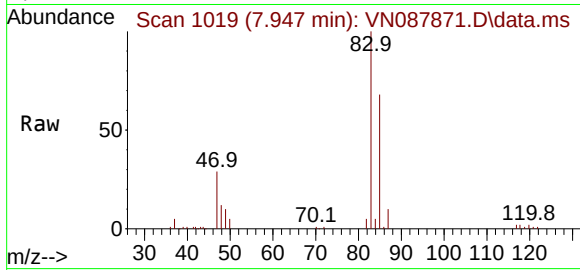
#25  
Chloroform  
Concen: 19.742 ug/l  
RT: 7.947 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 83 Resp: 13385  
Ion Ratio Lower Upper  
83 100  
85 67.5 47.7 71.5

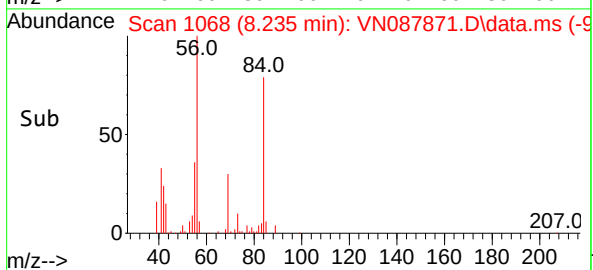
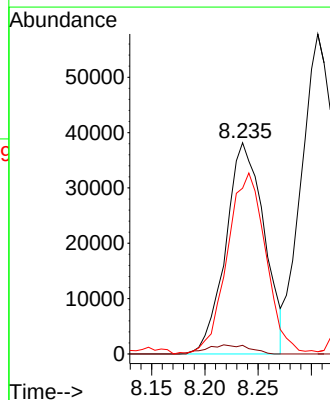
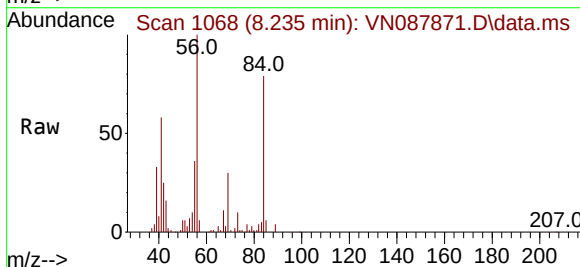
Manual Integrations  
APPROVED

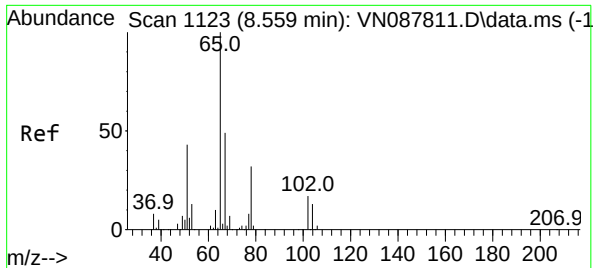
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#26  
Cyclohexane  
Concen: 19.365 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

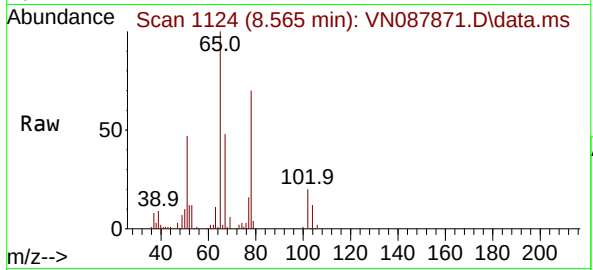
Tgt Ion: 56 Resp: 95526  
Ion Ratio Lower Upper  
56 100  
89 3.3 0.0 0.0#  
84 86.3 69.4 104.2





#27  
1,2-Dichloroethane-d4  
Concen: 28.817 ug/l  
RT: 8.565 min Scan# 1123  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

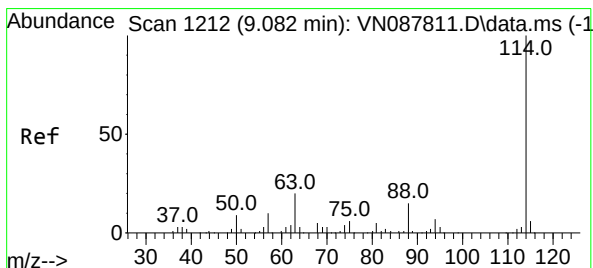
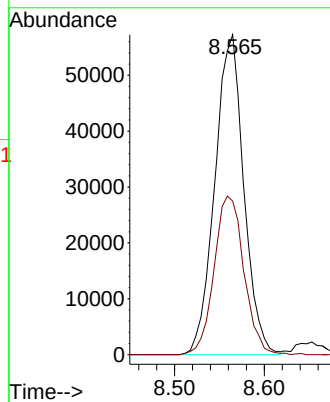
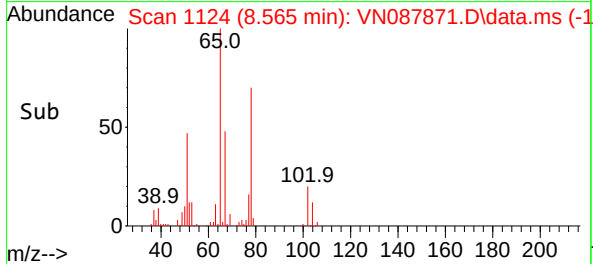
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



Tgt Ion: 65 Resp: 12841  
Ion Ratio Lower Upper  
65 100  
67 50.9 39.6 59.4

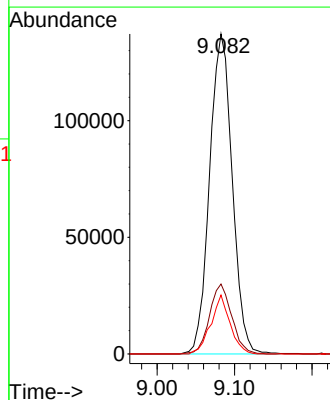
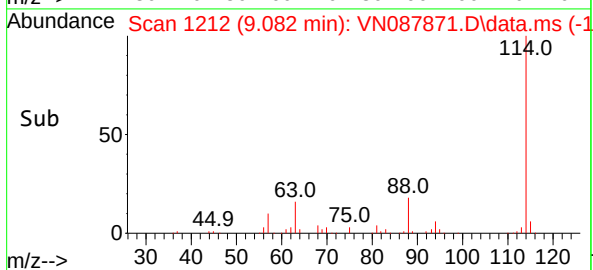
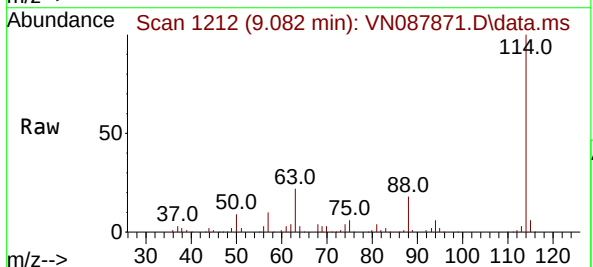
Manual Integrations  
APPROVED

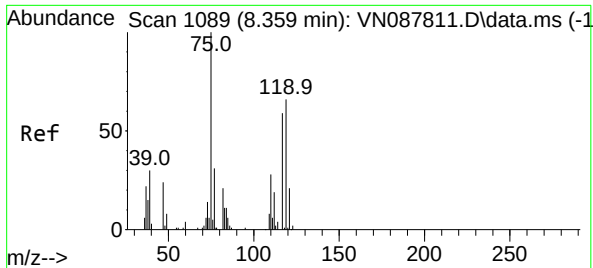
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.082 min Scan# 1212  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion:114 Resp: 278561  
Ion Ratio Lower Upper  
114 100  
63 21.4 18.3 27.5  
88 15.6 12.4 18.6





#29

1,1-Dichloropropene

Concen: 18.482 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

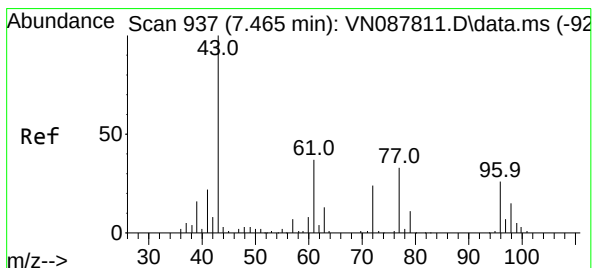
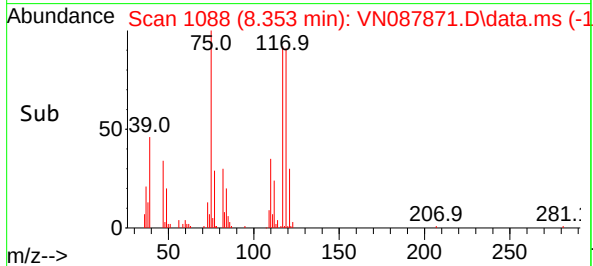
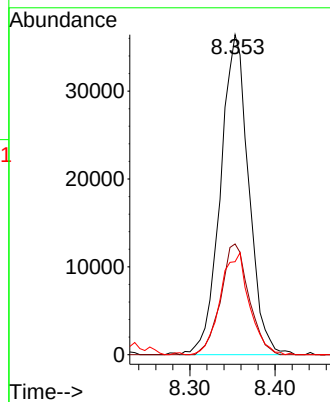
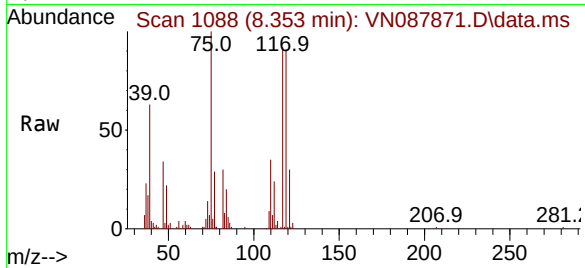
|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 83670 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 34.7    | 0.0 64.4    |
| 77 32.8     | 0.0 62.2    |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

2-Butanone

Concen: 96.683 ug/l

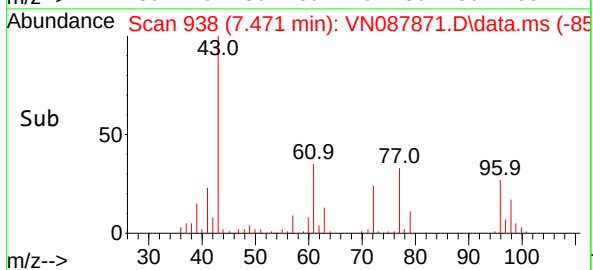
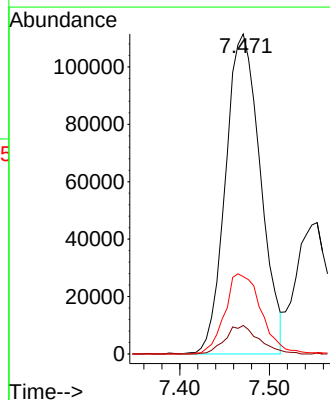
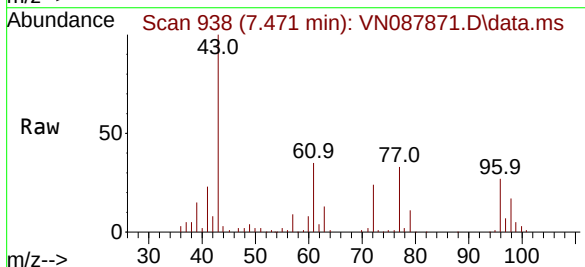
RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

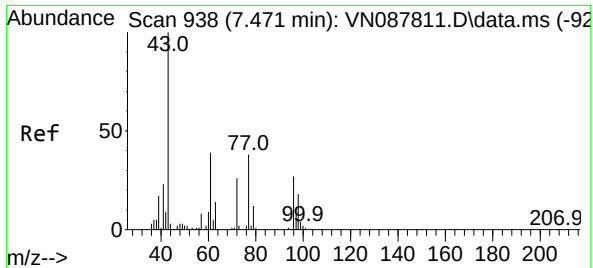
Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 301515 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 57 8.7      | 6.3 9.5      |
| 72 26.2     | 21.4 32.2    |







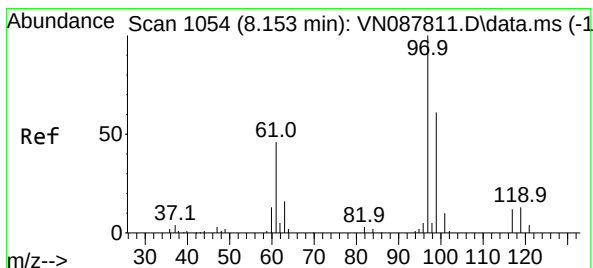
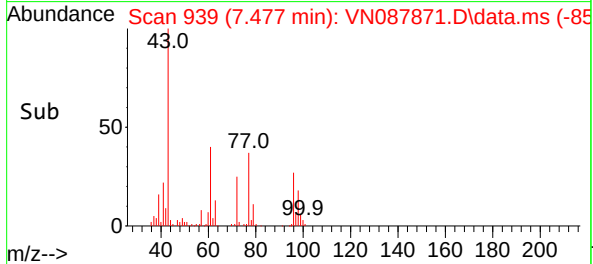
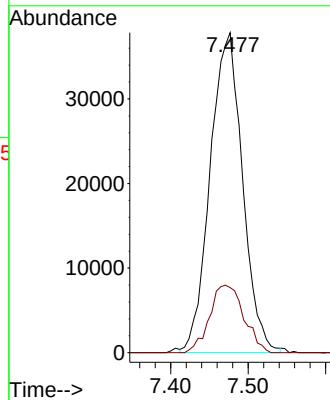
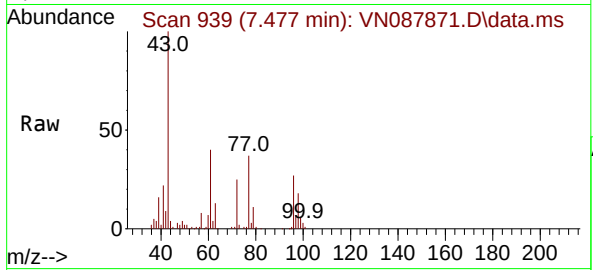
#31  
2,2-Dichloropropane  
Concen: 20.162 ug/l  
RT: 7.477 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 77 Resp: 110028  
Ion Ratio Lower Upper  
77 100  
97 22.2 17.1 25.7

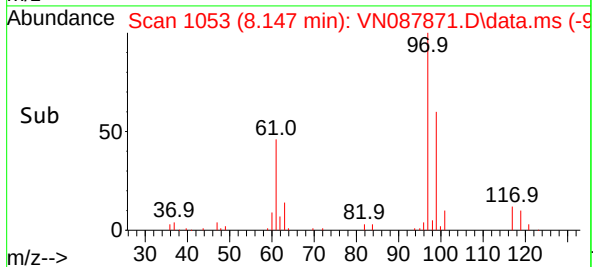
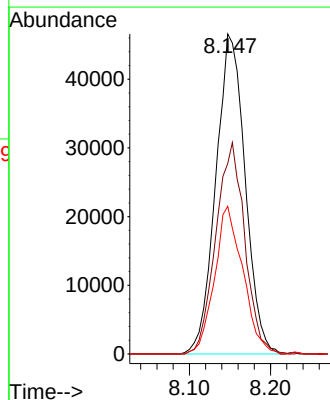
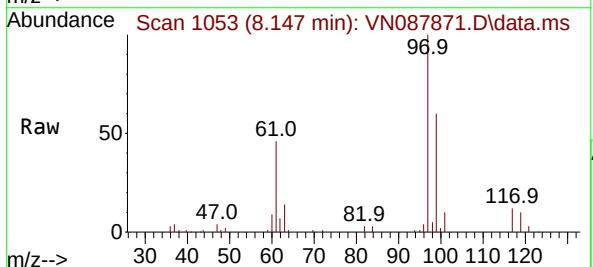
Manual Integrations  
APPROVED

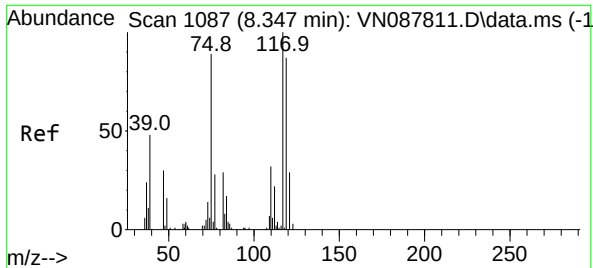
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#32  
1,1,1-Trichloroethane  
Concen: 20.382 ug/l  
RT: 8.147 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 97 Resp: 116982  
Ion Ratio Lower Upper  
97 100  
99 65.2 52.2 78.4  
61 44.6 37.9 56.9





#33

Carbon Tetrachloride

Concen: 20.180 ug/l

RT: 8.347 min Scan# 1087

Delta R.T. 0.006 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

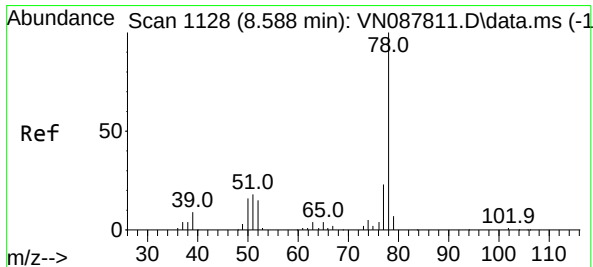
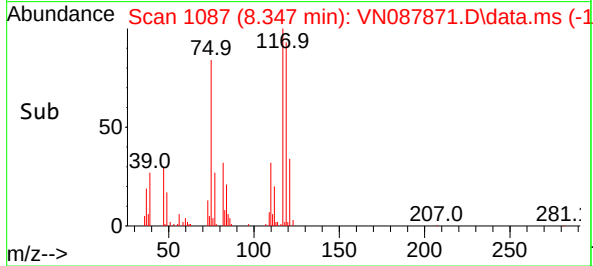
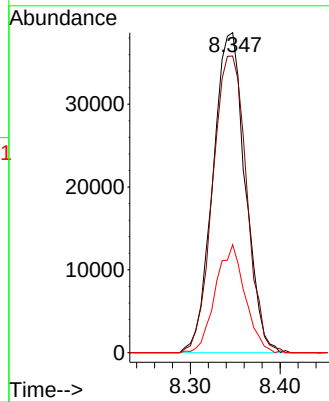
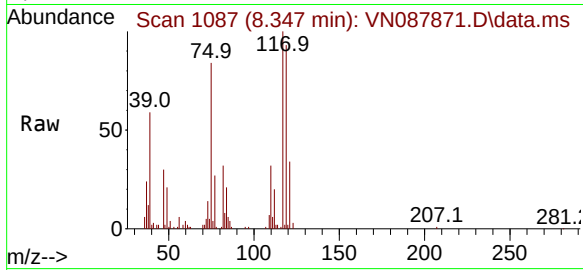
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:117 | Resp: | 9657       |
| Ion Ratio   | Lower | Upper      |
| 117         | 100   |            |
| 119         | 92.7  | 77.3 115.9 |
| 121         | 33.8  | 26.6 39.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

Benzene

Concen: 18.855 ug/l

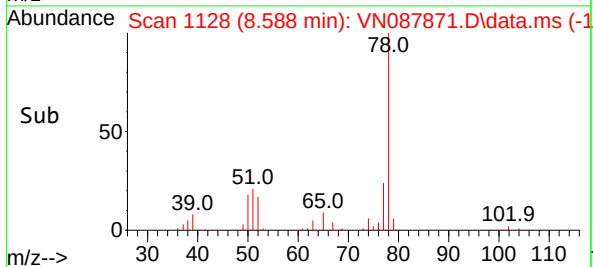
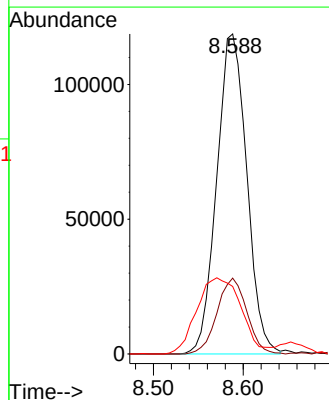
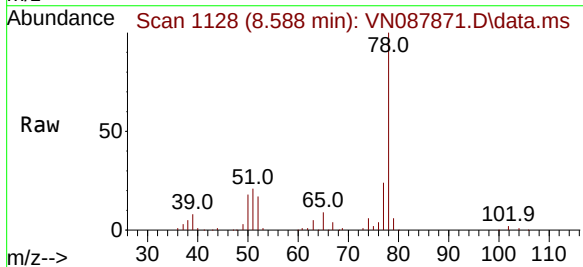
RT: 8.588 min Scan# 1128

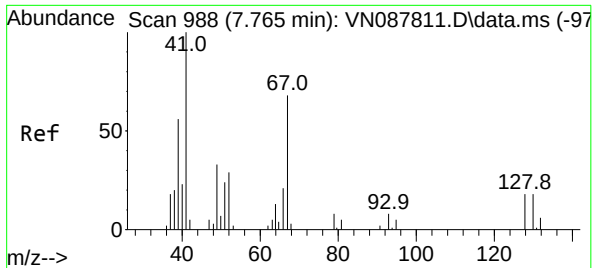
Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 78 | Resp: | 275879    |
| Ion Ratio   | Lower | Upper     |
| 78          | 100   |           |
| 77          | 23.7  | 20.3 30.5 |
| 51          | 18.7  | 18.0 27.0 |





#35

Methacrylonitrile

Concen: 17.996 ug/l

RT: 7.765 min Scan# 988

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 41 Resp: 58704

Ion Ratio Lower Upper

41 100

39 52.2 27.1 81.2

67 65.5 32.1 96.5

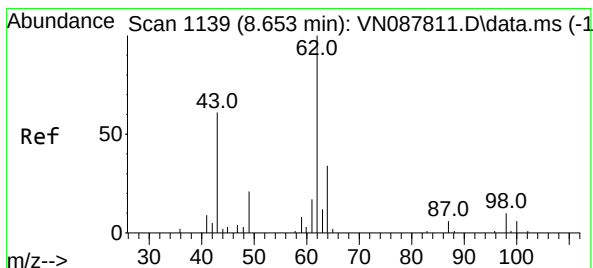
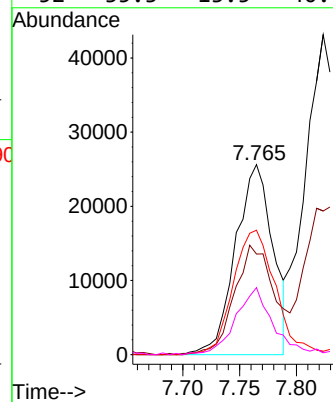
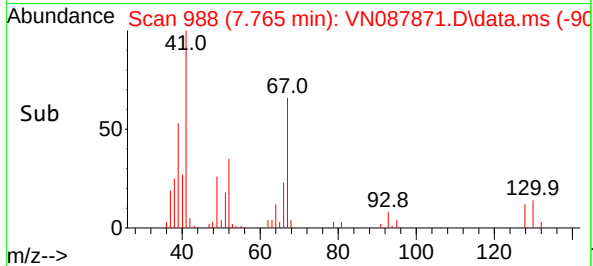
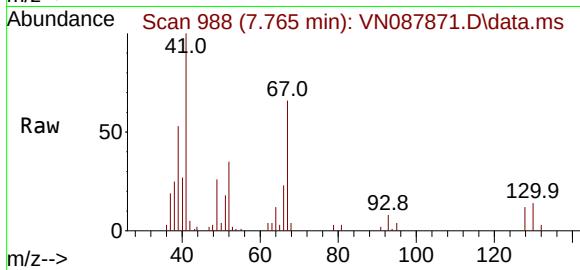
52 35.3 13.5 40.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,2-Dichloroethane

Concen: 18.631 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087871.D

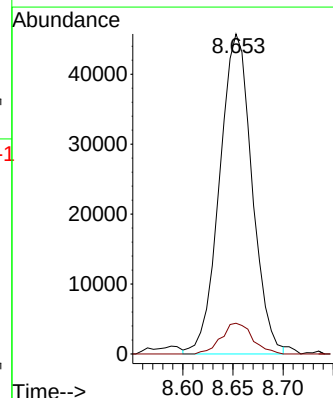
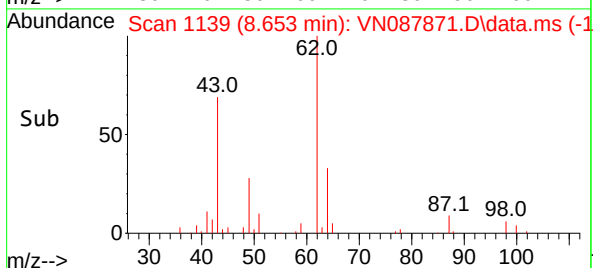
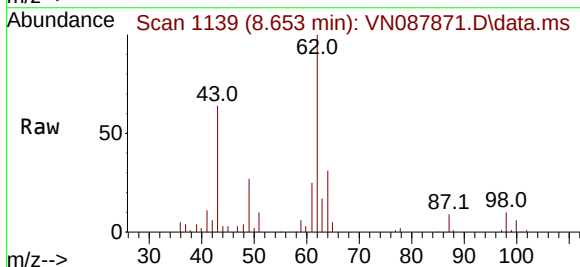
Acq: 17 Sep 2025 11:30

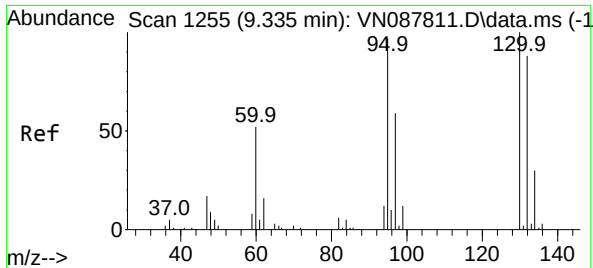
Tgt Ion: 62 Resp: 102965

Ion Ratio Lower Upper

62 100

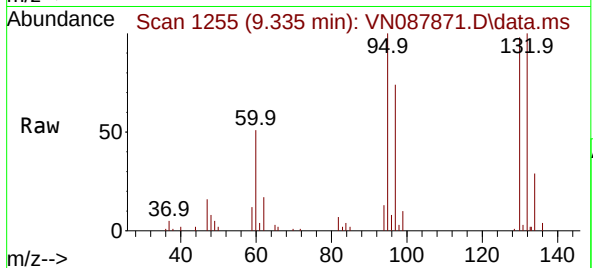
98 9.3 7.2 10.8





#37  
Trichloroethene  
Concen: 20.386 ug/l  
RT: 9.335 min Scan# 1255  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

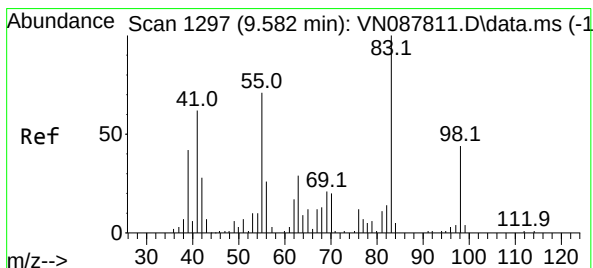
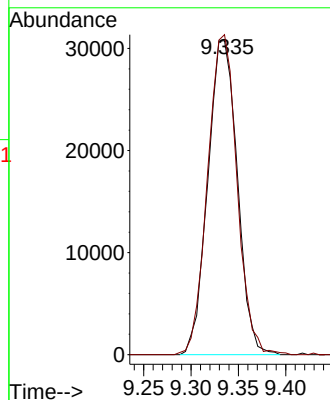
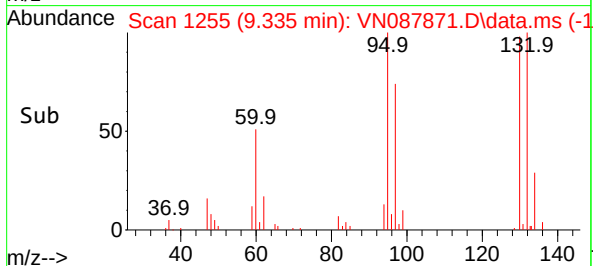
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



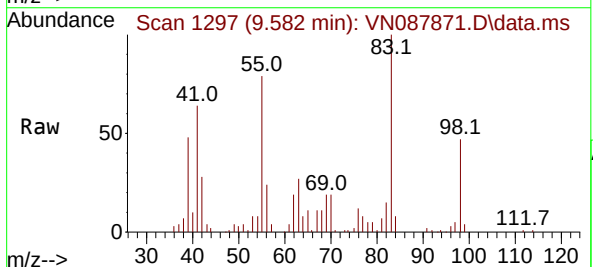
Tgt Ion:130 Resp: 6667  
Ion Ratio Lower Upper  
130 100  
95 101.3 82.7 124.1

Manual Integrations  
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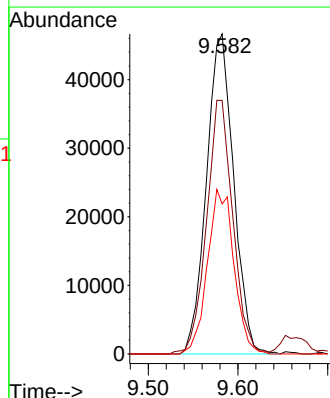
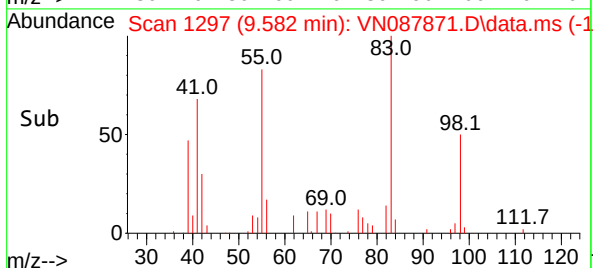
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

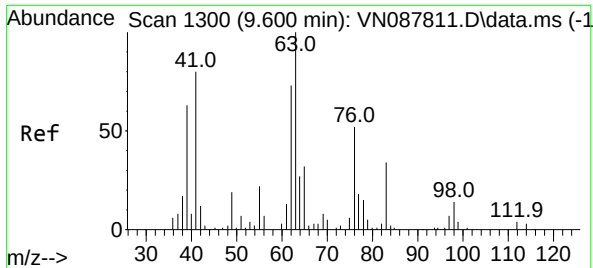


#38  
Methylcyclohexane  
Concen: 19.722 ug/l  
RT: 9.582 min Scan# 1297  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion: 83 Resp: 98311  
Ion Ratio Lower Upper  
83 100  
55 76.5 40.4 121.1  
98 50.1 24.0 72.0





#39

1,2-Dichloropropane

Concen: 18.998 ug/l

RT: 9.600 min Scan# 1119

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 63 Resp: 7119

Ion Ratio Lower Upper

63 100

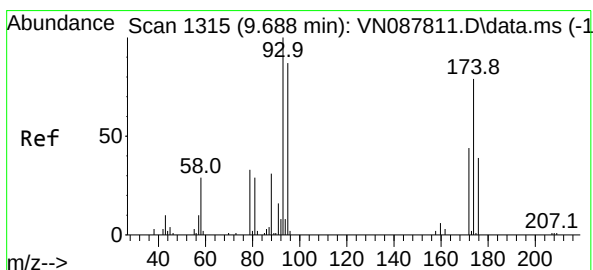
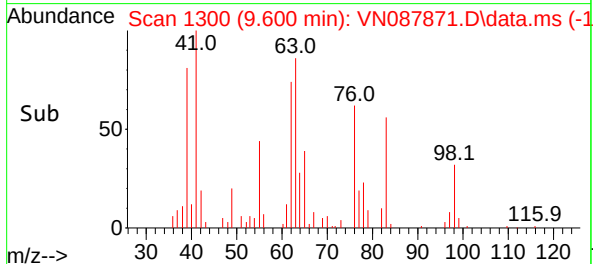
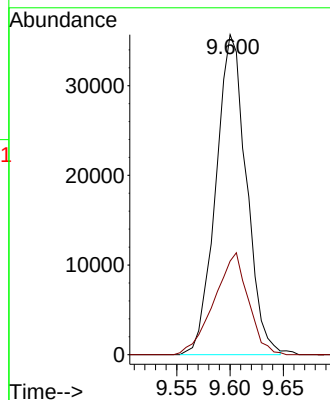
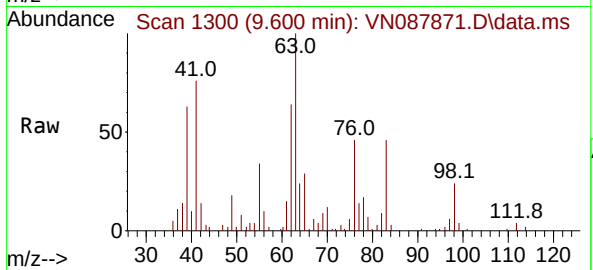
65 28.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Dibromomethane

Concen: 19.012 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

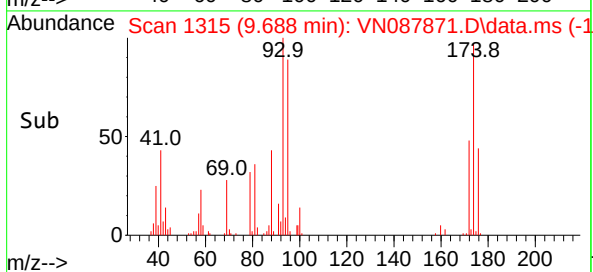
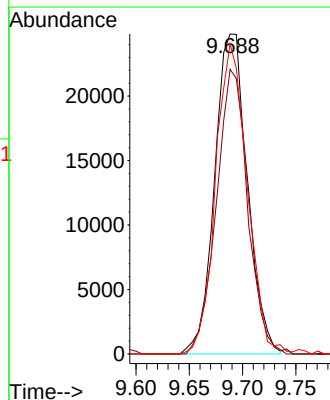
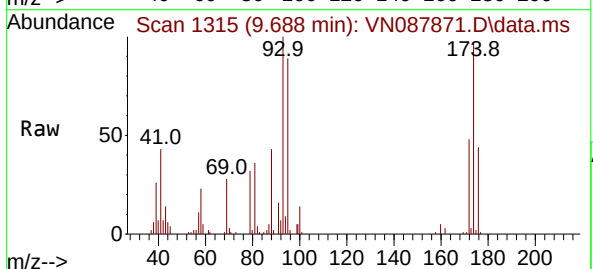
Tgt Ion: 93 Resp: 53021

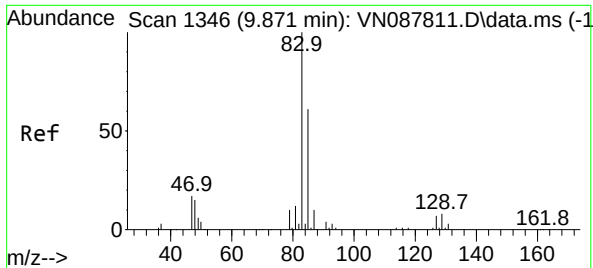
Ion Ratio Lower Upper

93 100

95 84.7 0.0 168.4

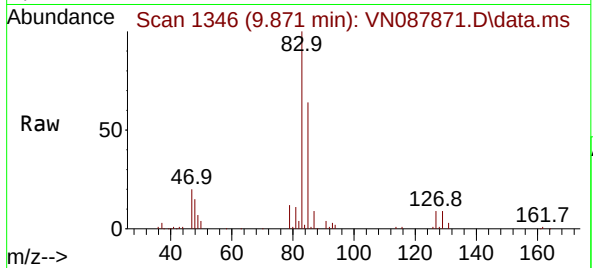
174 92.7 0.0 162.8





#41  
Bromodichloromethane  
Concen: 19.095 ug/l  
RT: 9.871 min Scan# 1346  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

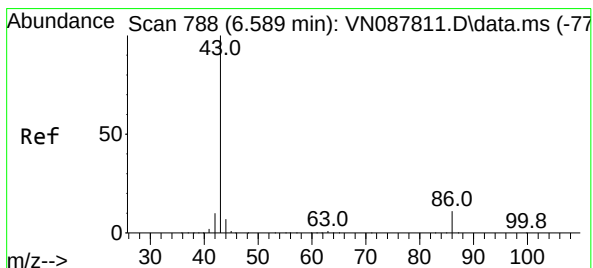
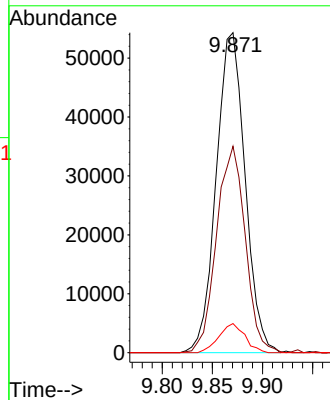
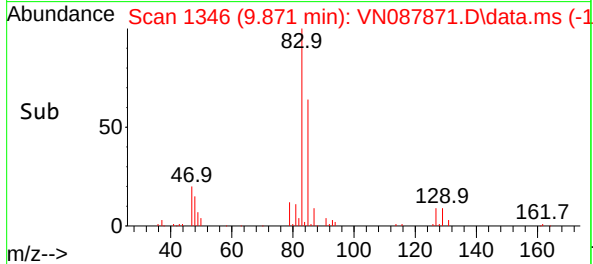
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



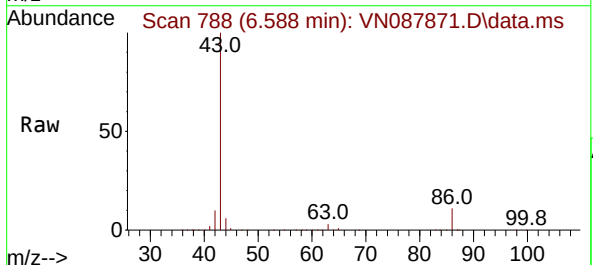
Tgt Ion: 83 Resp: 10884  
Ion Ratio Lower Upper  
83 100  
85 64.5 47.3 70.9  
127 9.1 5.2 7.8

Manual Integrations  
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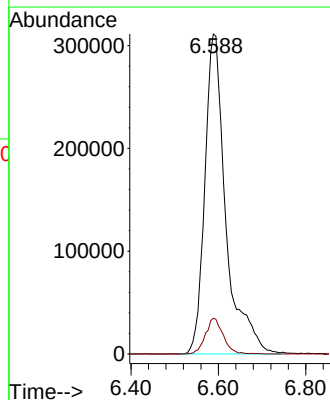
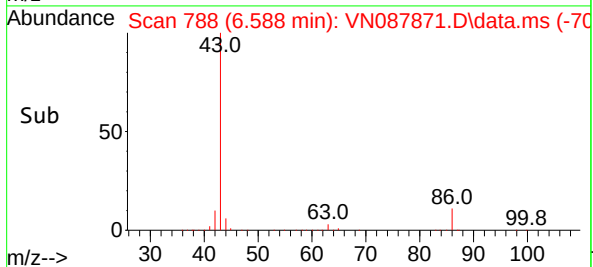
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

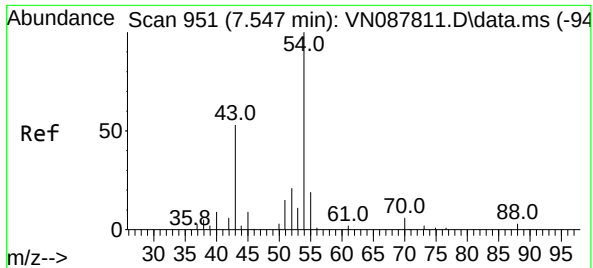


#42  
Vinyl Acetate  
Concen: 100.137 ug/l  
RT: 6.588 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion: 43 Resp: 1043406  
Ion Ratio Lower Upper  
43 100  
86 9.3 7.7 11.5





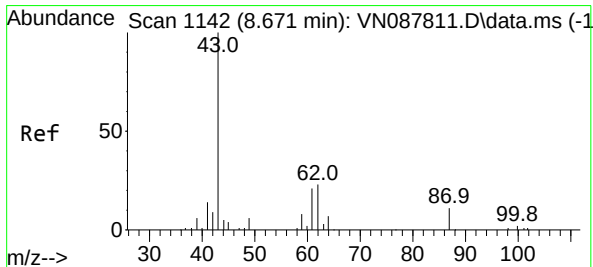
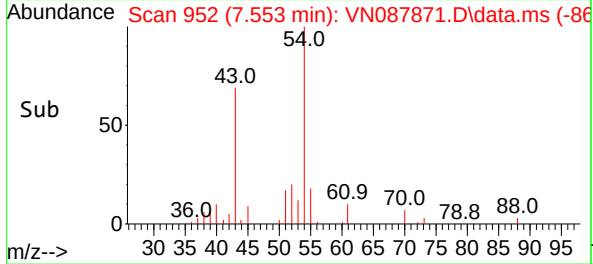
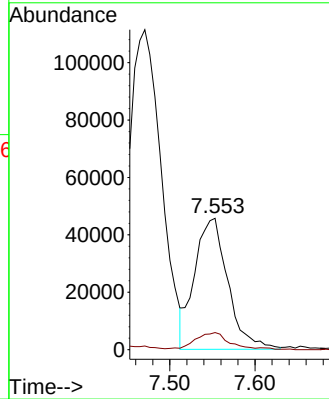
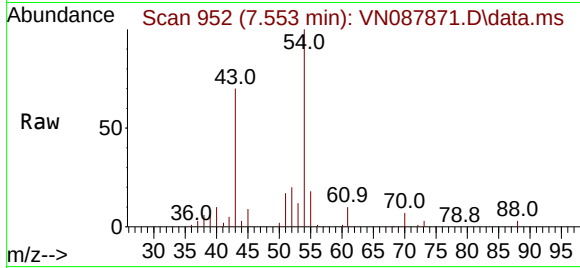
#43  
Ethyl Acetate  
Concen: 19.460 ug/l  
RT: 7.553 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 43 Resp: 123992  
Ion Ratio Lower Upper  
43 100  
45 12.7 10.5 15.7

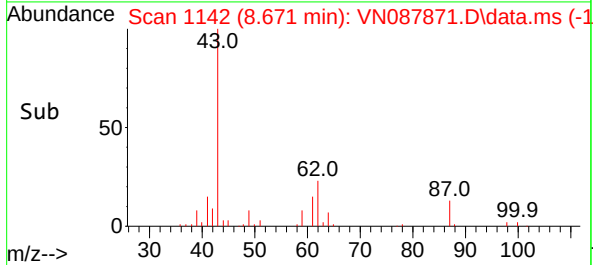
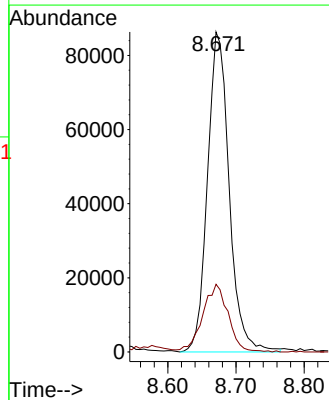
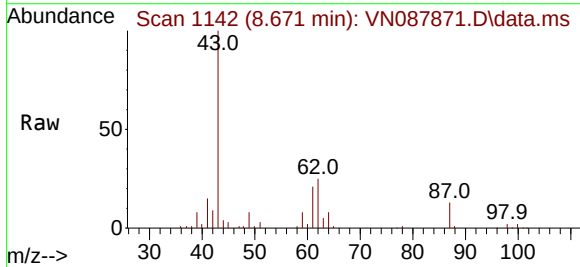
Manual Integrations  
APPROVED

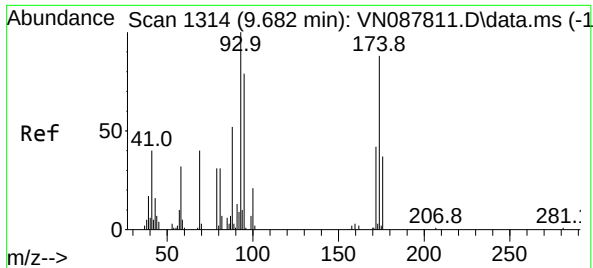
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#44  
Isopropyl Acetate  
Concen: 19.147 ug/l  
RT: 8.671 min Scan# 1142  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

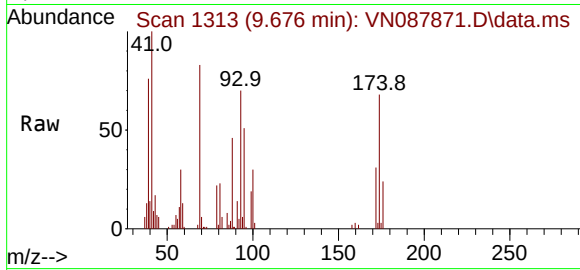
Tgt Ion: 43 Resp: 191251  
Ion Ratio Lower Upper  
43 100  
61 24.8 19.5 29.3





#45  
1,4-Dioxane  
Concen: 435.342 ug/l  
RT: 9.676 min Scan# 1313  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

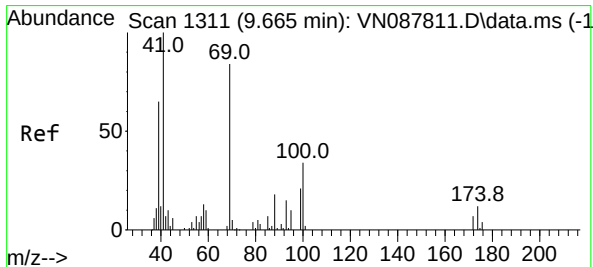
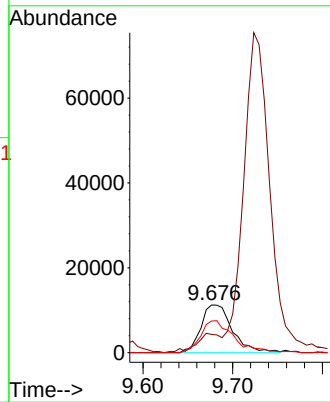
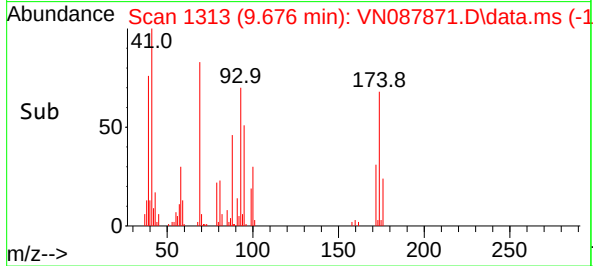
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



Tgt Ion: 88 Resp: 2742  
Ion Ratio Lower Upper  
88 100  
43 26.8 23.6 35.4  
58 69.9 60.5 90.7

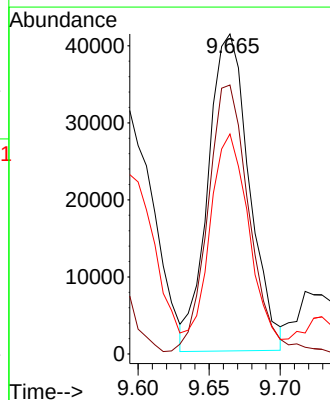
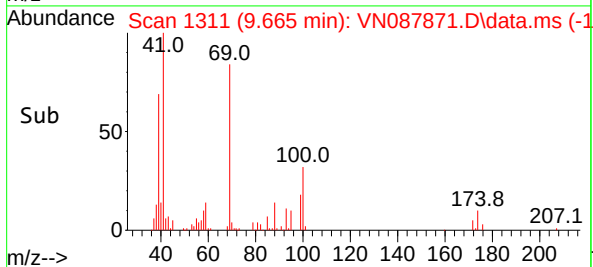
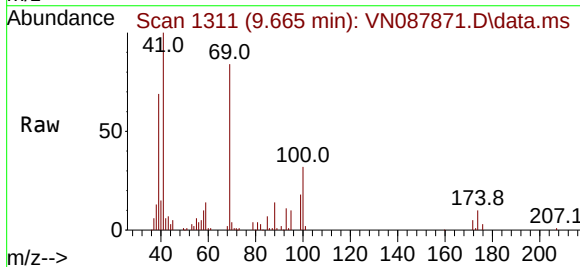
Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

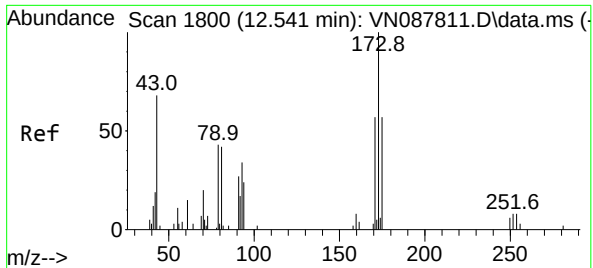


#46  
Methyl methacrylate  
Concen: 18.119 ug/l  
RT: 9.665 min Scan# 1311  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 41 Resp: 83421  
Ion Ratio Lower Upper  
41 100  
69 88.5 40.3 120.9  
39 70.2 31.9 95.9







#47

n-amy1 Acetate

Concen: 13.996 ug/l m

RT: 12.594 min Scan# 1

Delta R.T. -0.077 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 43 Resp: 9447

Ion Ratio Lower Upper

43 100

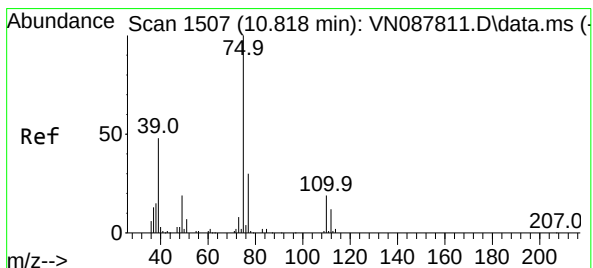
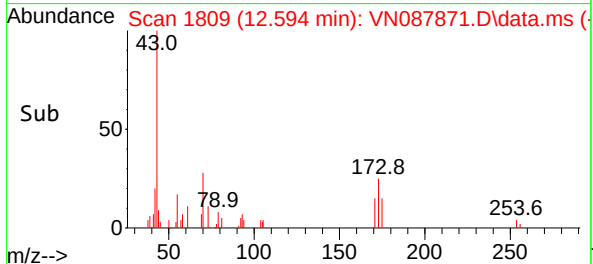
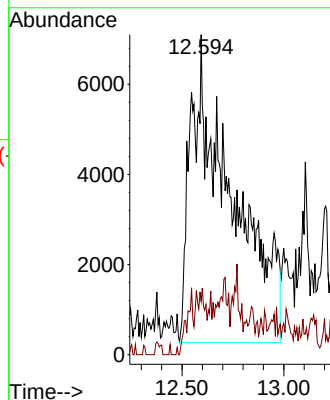
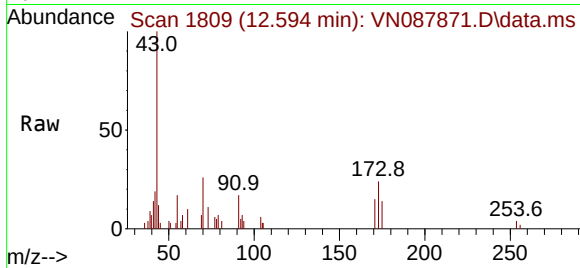
55 1.3 0.7 1.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

t-1,3-Dichloropropene

Concen: 19.122 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087871.D

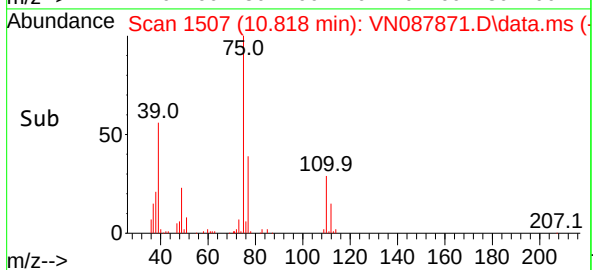
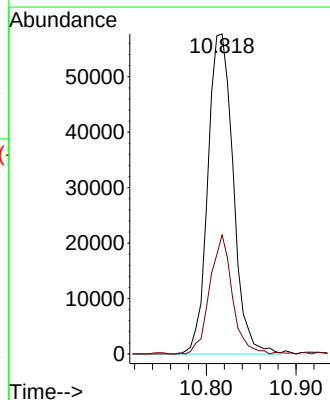
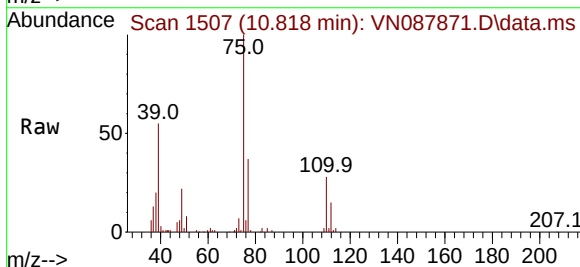
Acq: 17 Sep 2025 11:30

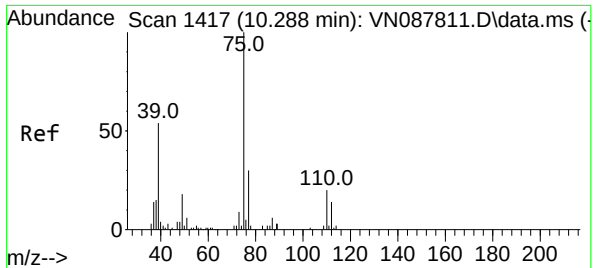
Tgt Ion: 75 Resp: 113205

Ion Ratio Lower Upper

75 100

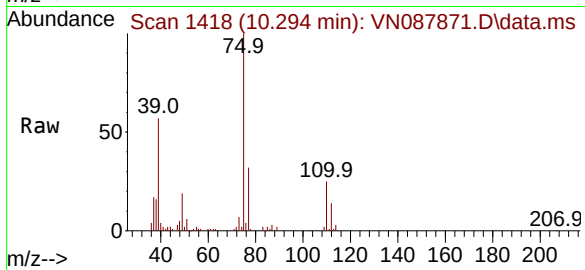
77 36.8 24.7 37.1





#49  
cis-1,3-Dichloropropene  
Concen: 18.977 ug/l  
RT: 10.294 min Scan# 1418  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

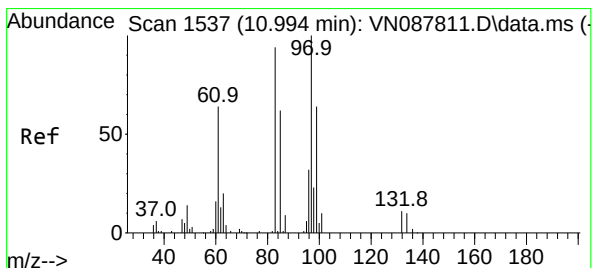
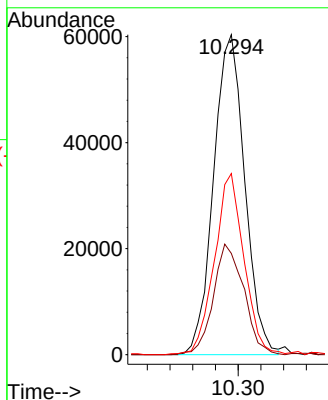
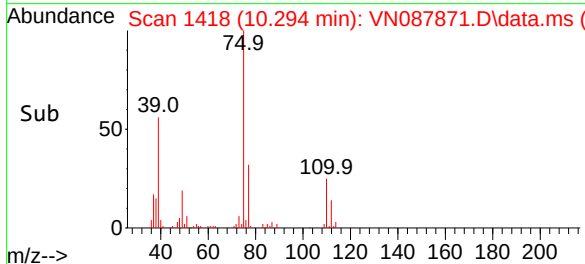
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



Tgt Ion: 75 Resp: 115068  
Ion Ratio Lower Upper  
75 100  
77 31.4 27.8 41.6  
39 55.6 47.6 71.4

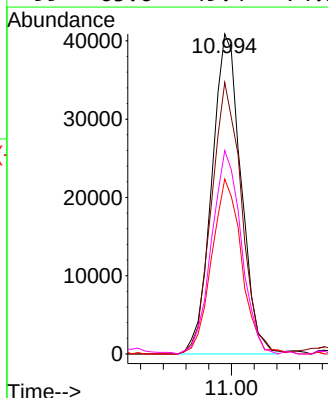
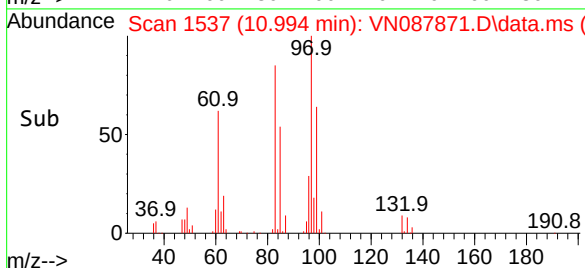
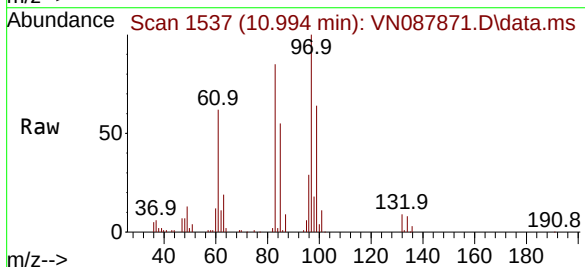
Manual Integrations  
APPROVED

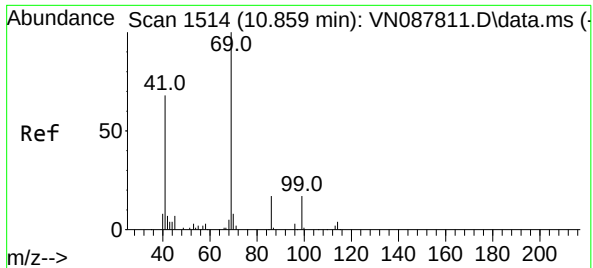
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#50  
1,1,2-Trichloroethane  
Concen: 20.291 ug/l  
RT: 10.994 min Scan# 1537  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

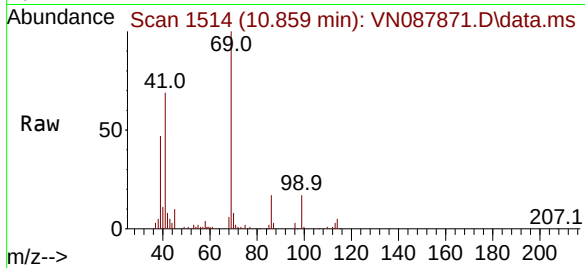
Tgt Ion: 97 Resp: 73088  
Ion Ratio Lower Upper  
97 100  
83 84.8 70.5 105.7  
85 54.6 46.3 69.5  
99 63.6 49.4 74.2





#51  
Ethyl methacrylate  
Concen: 18.228 ug/l  
RT: 10.859 min Scan# 1514  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

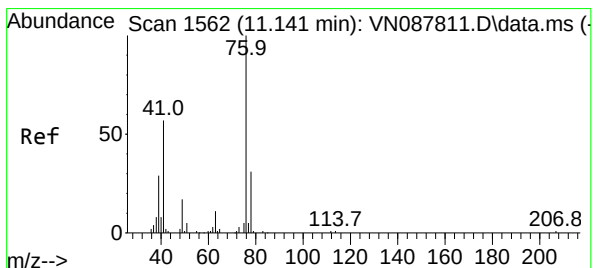
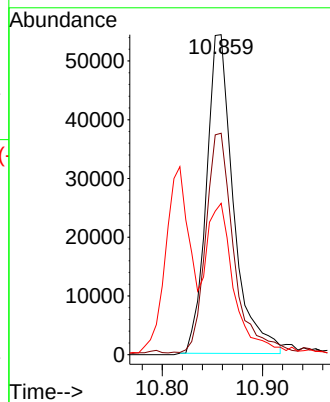
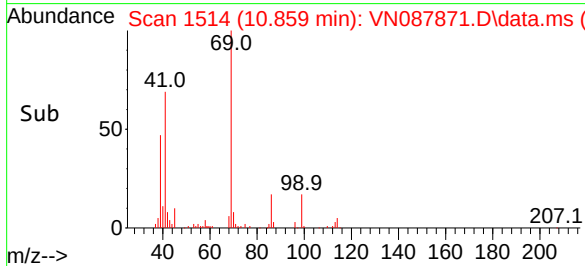
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



Tgt Ion: 69 Resp: 102178  
Ion Ratio Lower Upper  
69 100  
41 68.8 33.7 101.0  
39 45.1 20.3 60.9

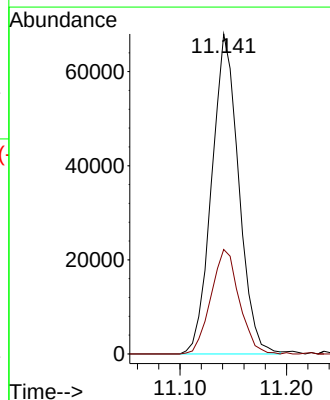
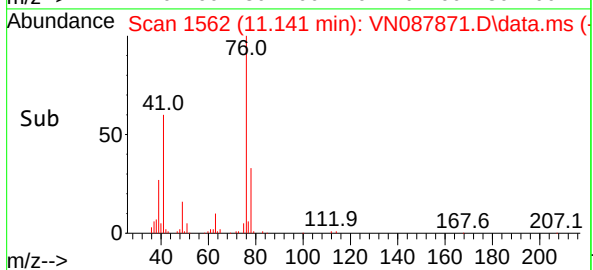
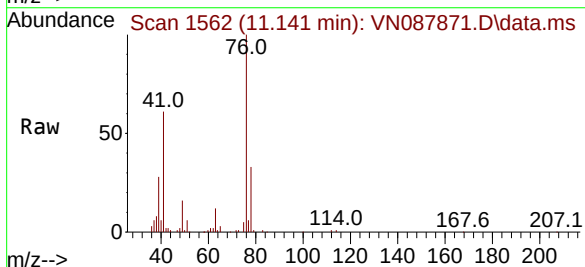
Manual Integrations  
APPROVED

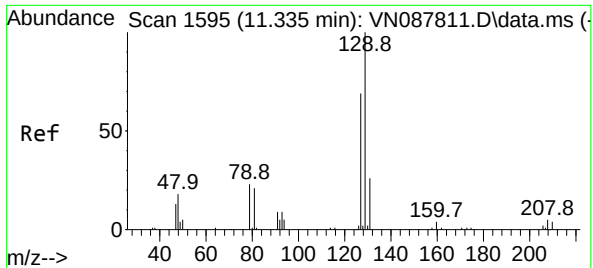
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#52  
1,3-Dichloropropane  
Concen: 19.140 ug/l  
RT: 11.141 min Scan# 1562  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

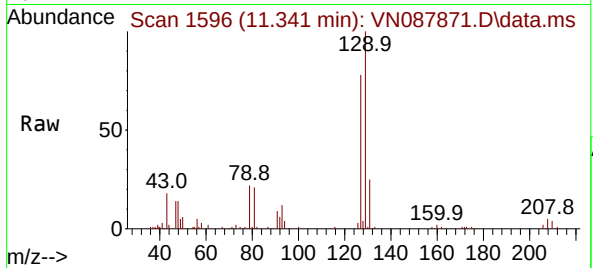
Tgt Ion: 76 Resp: 119718  
Ion Ratio Lower Upper  
76 100  
78 34.1 0.0 65.2





#53  
Dibromochloromethane  
Concen: 20.588 ug/l  
RT: 11.341 min Scan# 1596  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

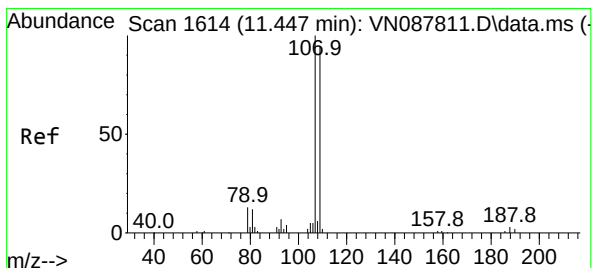
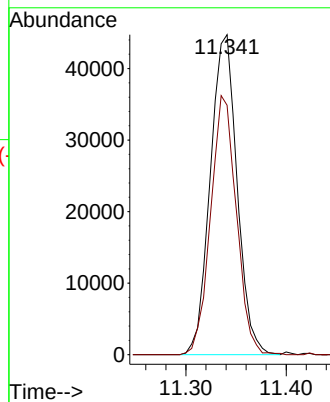
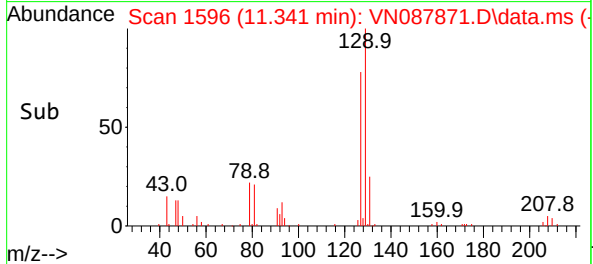
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



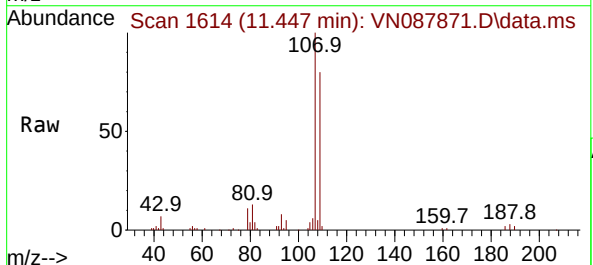
Tgt Ion:129 Resp: 83149  
Ion Ratio Lower Upper  
129 100  
127 77.5 42.6 128.0

Manual Integrations  
APPROVED

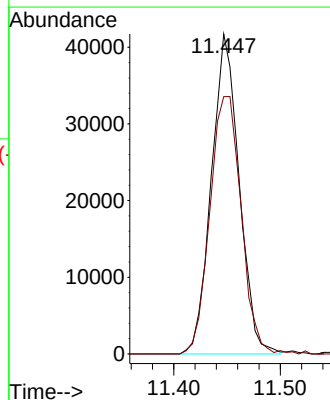
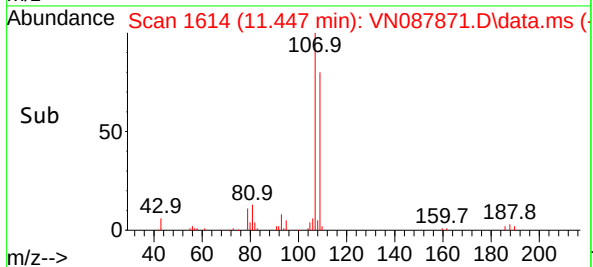
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

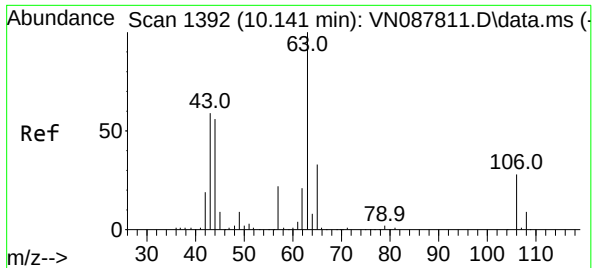


#54  
1,2-Dibromoethane  
Concen: 20.118 ug/l  
RT: 11.447 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion:107 Resp: 75402  
Ion Ratio Lower Upper  
107 100  
109 90.5 74.6 112.0





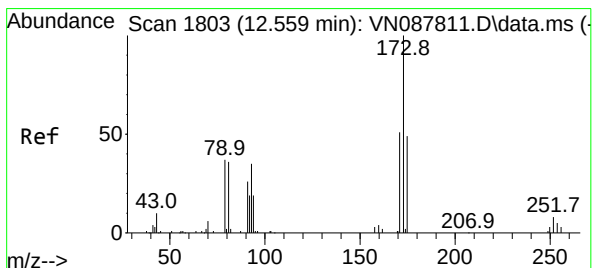
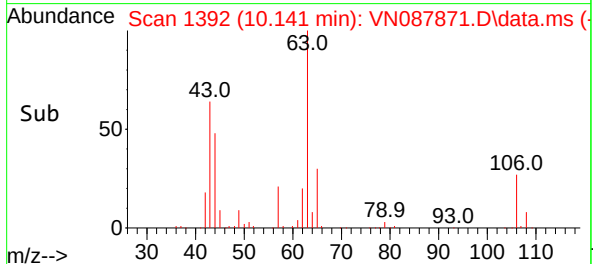
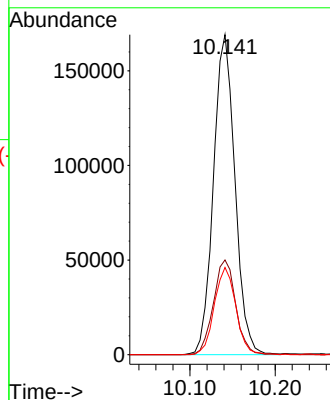
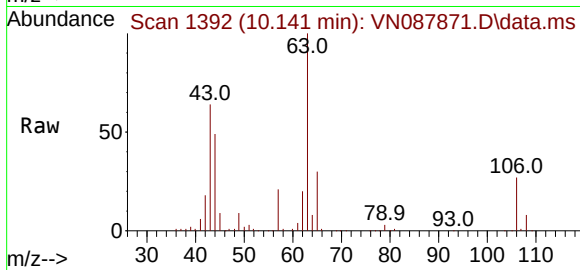
#55  
2-Chloroethyl vinyl ether  
Concen: 92.489 ug/l  
RT: 10.141 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 63 Resp: 297054  
Ion Ratio Lower Upper  
63 100  
65 30.6 26.6 40.0  
106 27.2 21.1 31.7

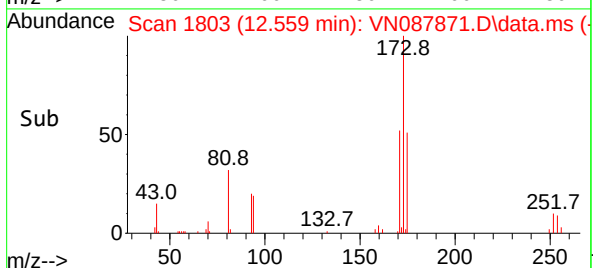
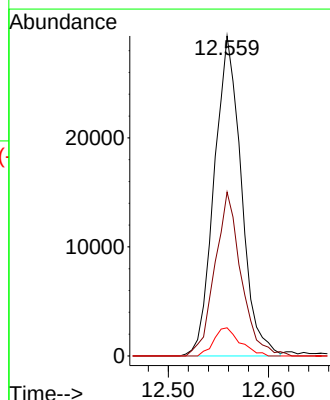
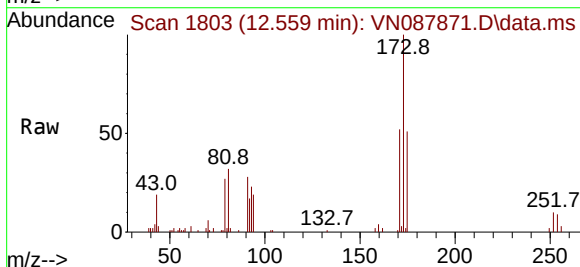
Manual Integrations  
APPROVED

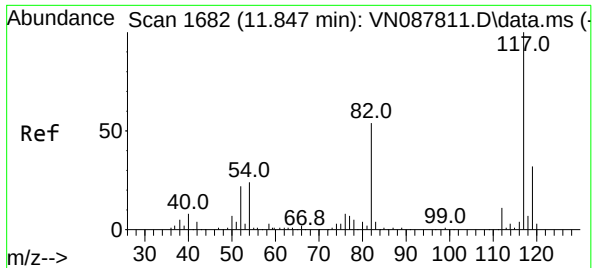
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#56  
Bromoform  
Concen: 20.852 ug/l  
RT: 12.559 min Scan# 1803  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion:173 Resp: 54997  
Ion Ratio Lower Upper  
173 100  
175 49.5 39.8 59.6  
254 8.6 6.2 9.4





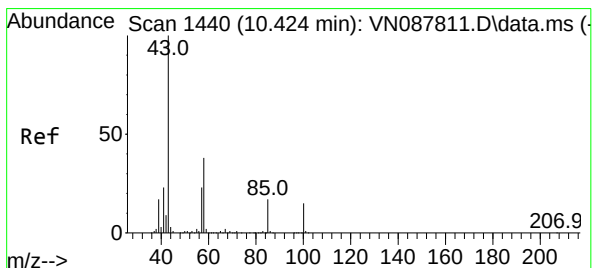
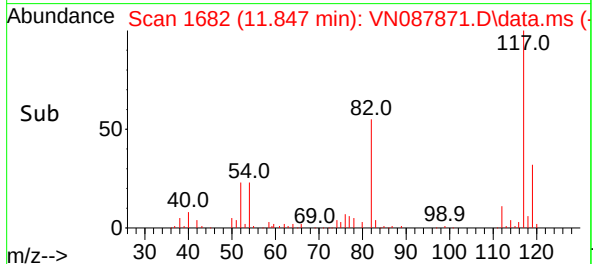
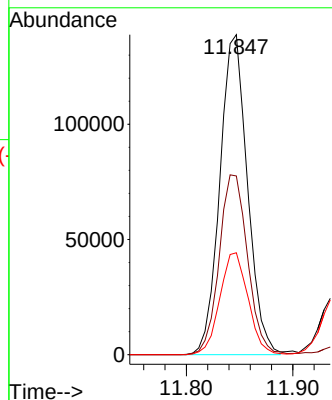
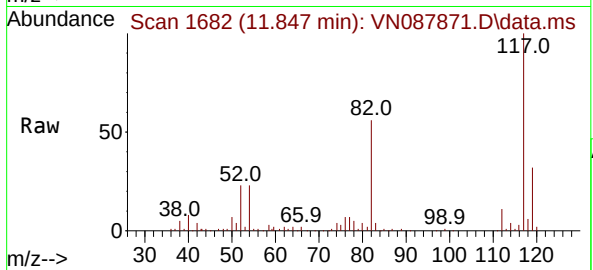
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion:117 Resp: 250388  
Ion Ratio Lower Upper  
117 100  
82 57.9 45.9 68.9  
119 32.6 25.3 37.9

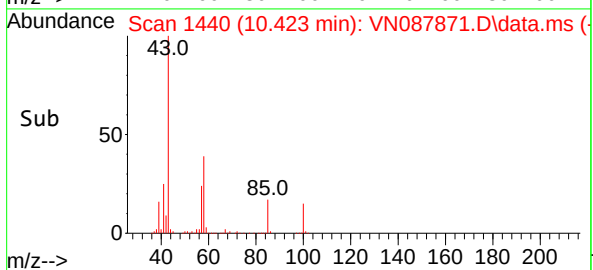
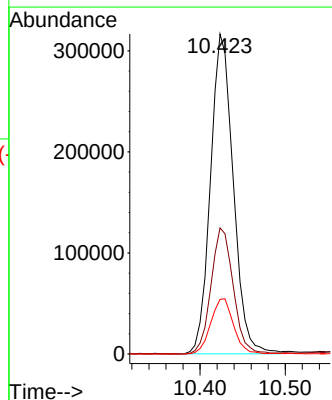
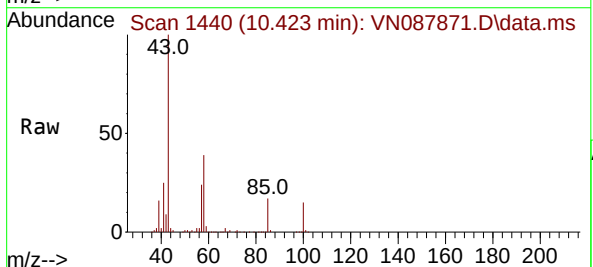
Manual Integrations  
APPROVED

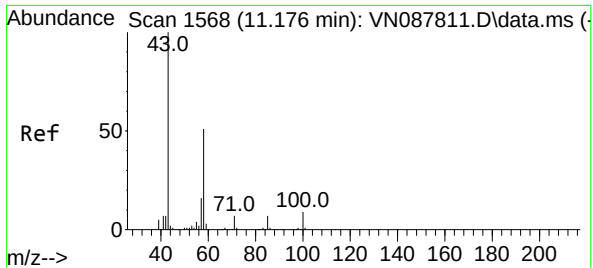
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#58  
4-Methyl-2-Pentanone  
Concen: 99.624 ug/l  
RT: 10.423 min Scan# 1440  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

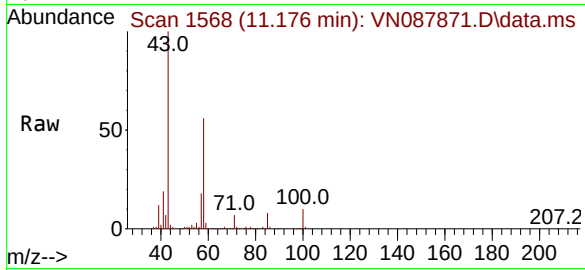
Tgt Ion: 43 Resp: 589811  
Ion Ratio Lower Upper  
43 100  
58 38.3 29.6 44.4  
85 17.2 13.0 19.4





#59  
2-Hexanone  
Concen: 99.322 ug/l  
RT: 11.176 min Scan# 1568  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

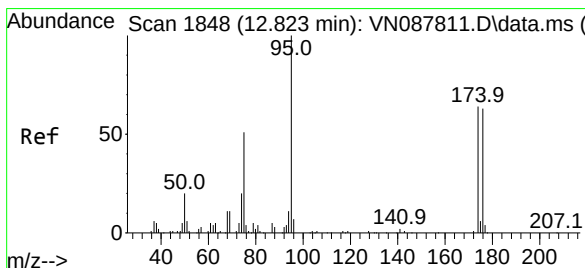
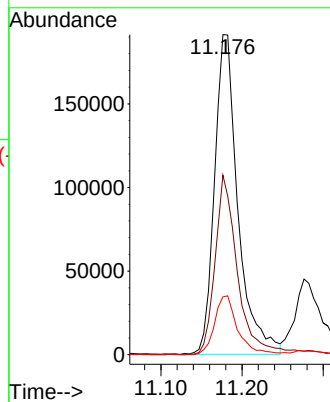
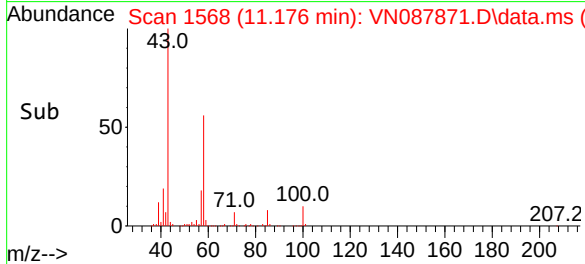
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



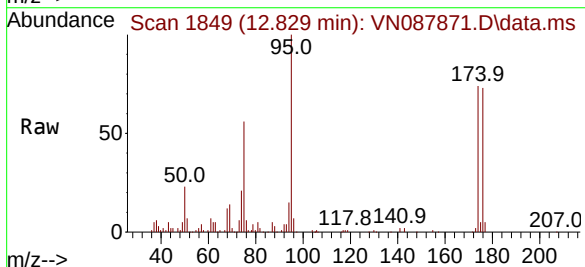
Tgt Ion: 43 Resp: 384238  
Ion Ratio Lower Upper  
43 100  
58 53.2 40.2 60.4  
57 18.2 13.7 20.5

Manual Integrations  
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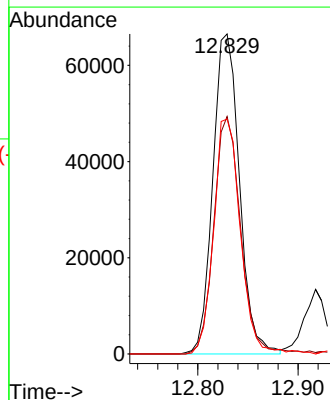
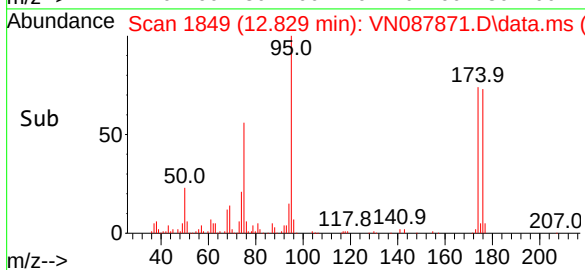
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

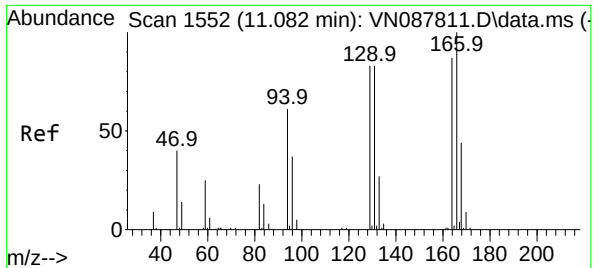


#60  
4-Bromofluorobenzene  
Concen: 30.415 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



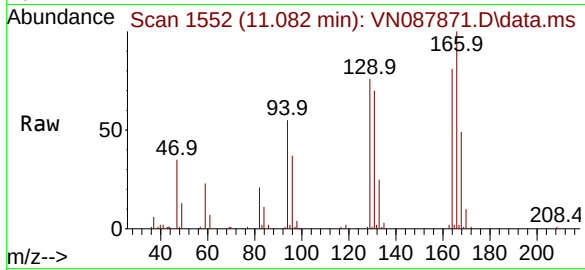
Tgt Ion: 95 Resp: 122450  
Ion Ratio Lower Upper  
95 100  
174 74.6 55.4 83.0  
176 73.2 51.5 77.3





#61  
Tetrachloroethene  
Concen: 22.340 ug/l  
RT: 11.082 min Scan# 1552  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

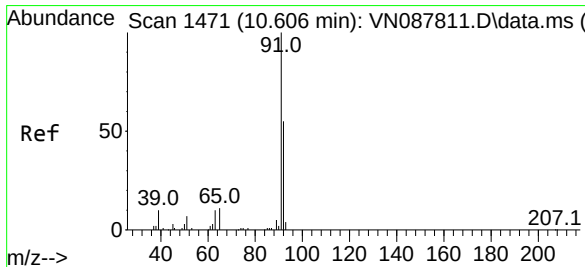
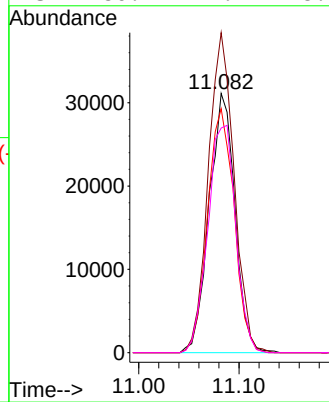
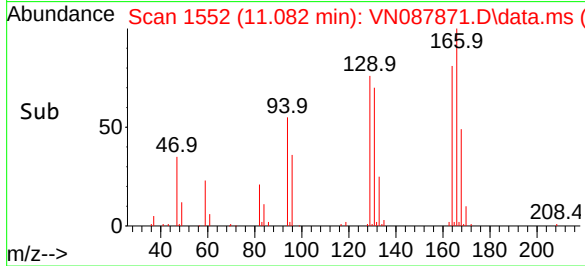
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



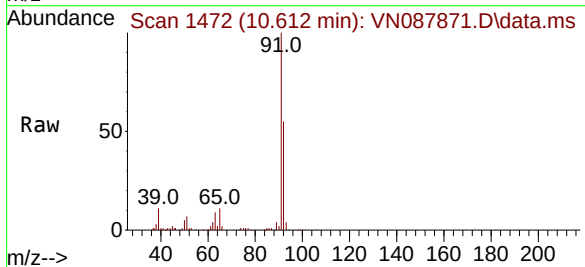
Tgt Ion:164 Resp: 55692  
Ion Ratio Lower Upper  
164 100  
166 123.4 97.3 145.9  
129 94.1 78.6 117.8  
131 86.7 79.2 118.8

Manual Integrations  
APPROVED

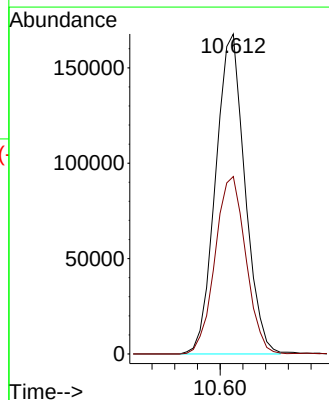
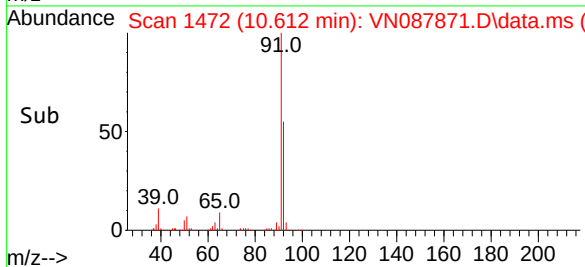
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



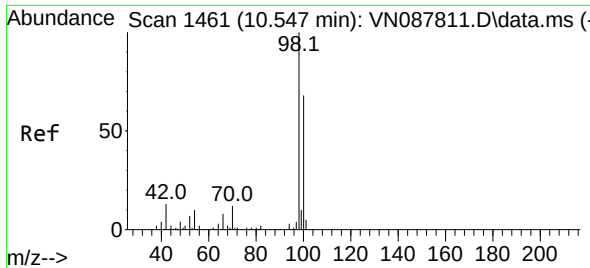
#62  
Toluene  
Concen: 19.838 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion: 91 Resp: 300459  
Ion Ratio Lower Upper  
91 100  
92 58.1 45.4 68.0







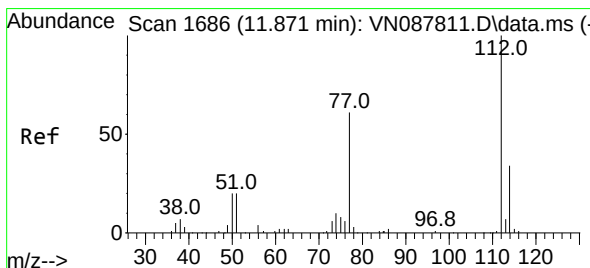
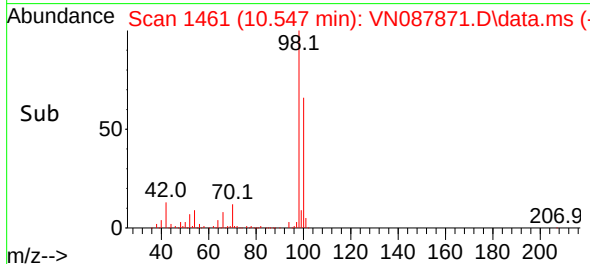
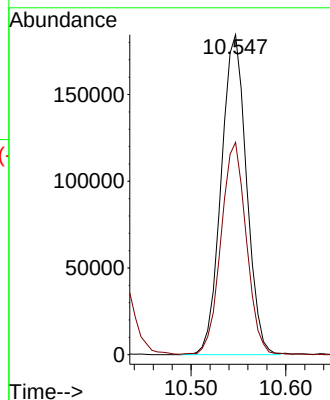
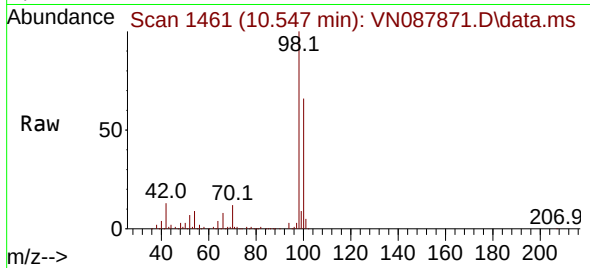
#63  
Toluene-d8  
Concen: 29.396 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 98 Resp: 34229  
Ion Ratio Lower Upper  
98 100  
100 66.2 50.6 76.0

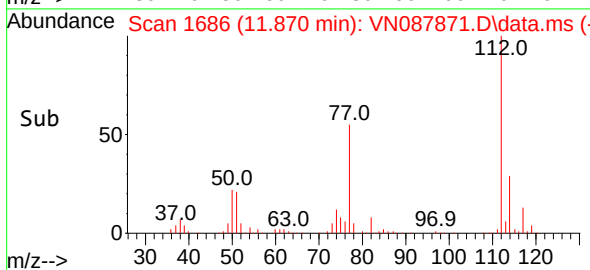
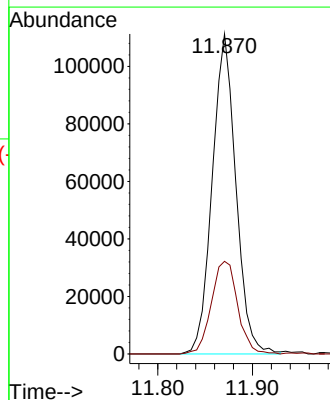
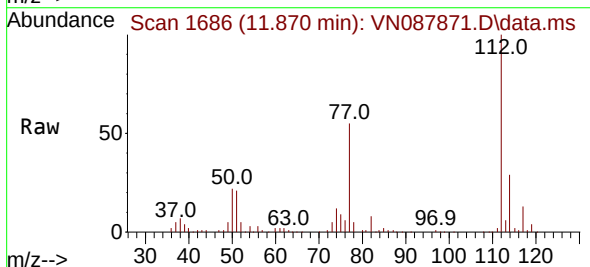
Manual Integrations  
APPROVED

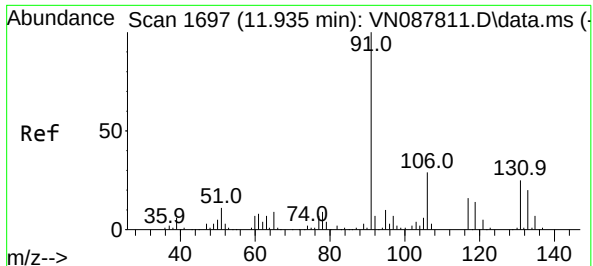
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#64  
Chlorobenzene  
Concen: 20.798 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion:112 Resp: 193335  
Ion Ratio Lower Upper  
112 100  
114 28.9 23.5 35.3





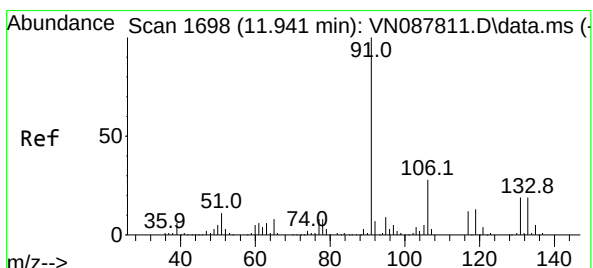
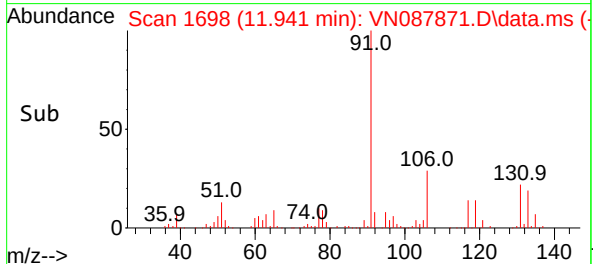
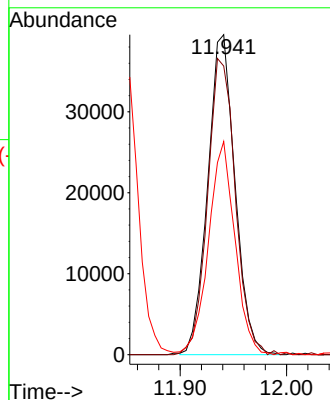
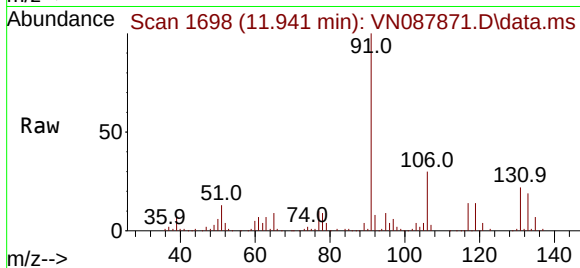
#65  
1,1,1,2-Tetrachloroethane  
Concen: 21.503 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion:131 Resp: 7037  
Ion Ratio Lower Upper  
131 100  
133 94.1 0.0 195.8  
119 64.7 0.0 139.0

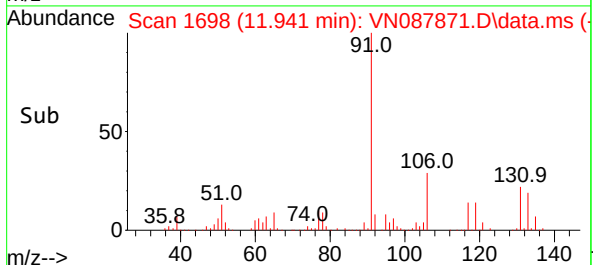
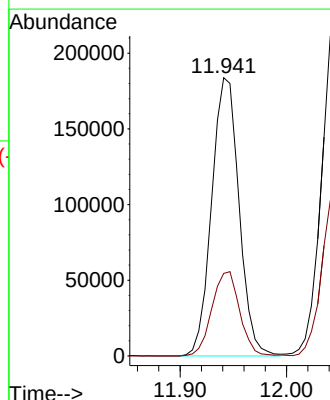
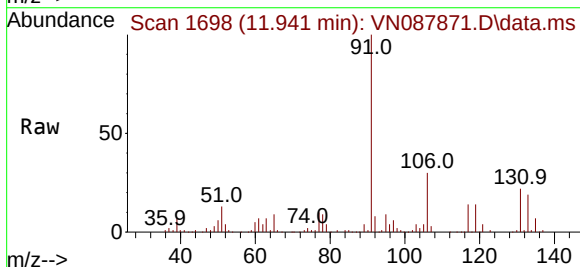
Manual Integrations  
APPROVED

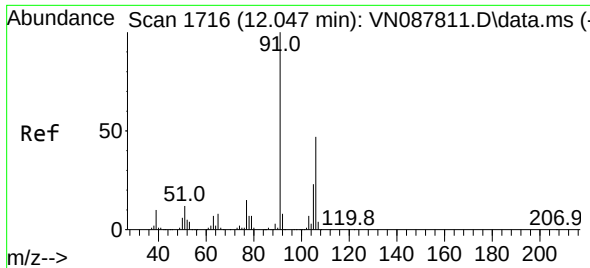
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#66  
Ethyl Benzene  
Concen: 20.085 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 91 Resp: 328182  
Ion Ratio Lower Upper  
91 100  
106 29.7 21.3 31.9





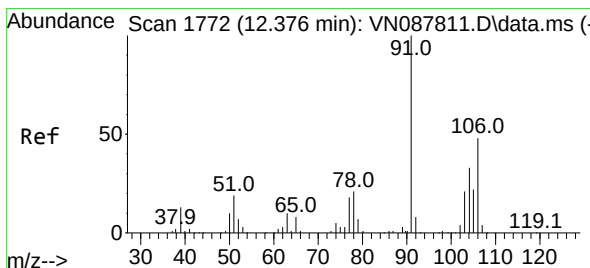
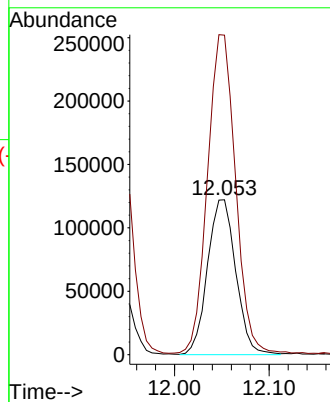
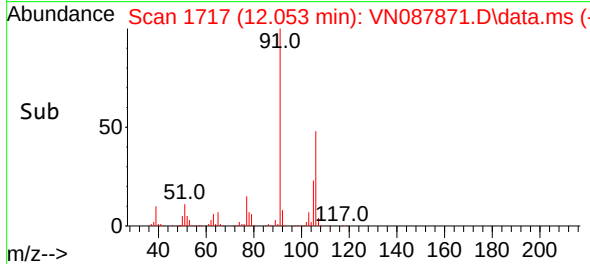
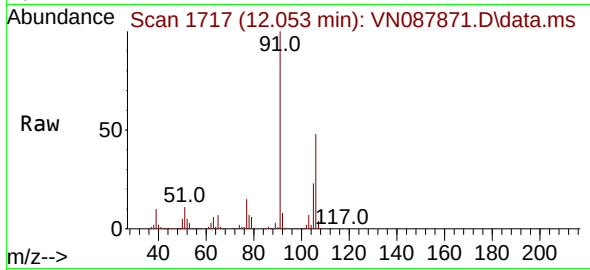
#67  
m/p-Xylenes  
Concen: 41.763 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion:106 Resp: 253304  
Ion Ratio Lower Upper  
106 100  
91 205.3 174.3 261.5

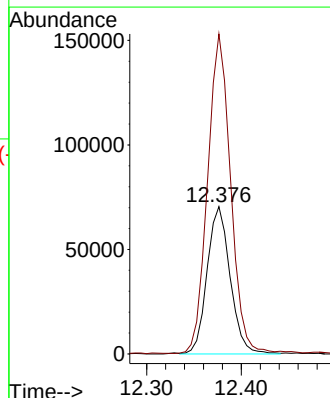
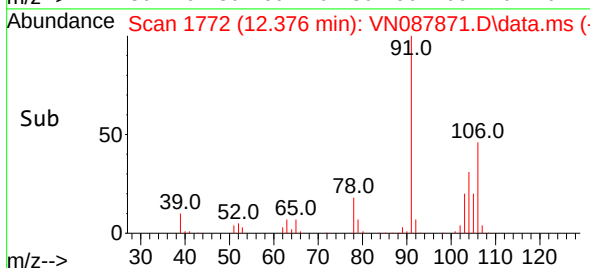
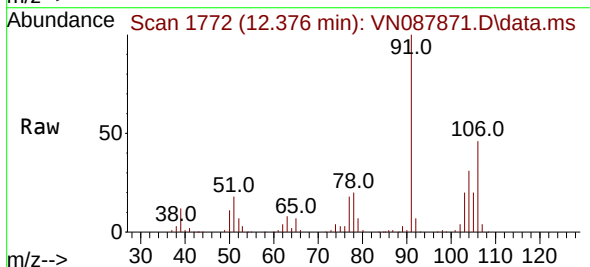
Manual Integrations  
APPROVED

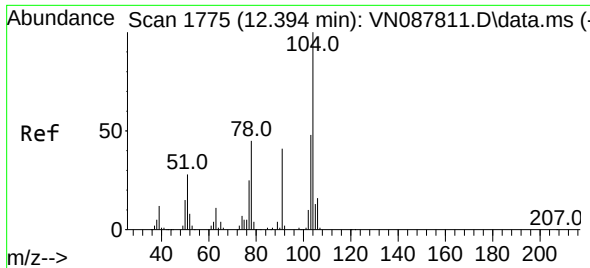
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#68  
o-Xylene  
Concen: 20.311 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

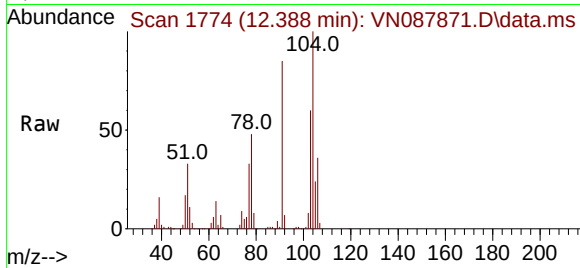
Tgt Ion:106 Resp: 119443  
Ion Ratio Lower Upper  
106 100  
91 216.0 107.7 323.3





#69  
Styrene  
Concen: 19.712 ug/l  
RT: 12.388 min Scan# 1774  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

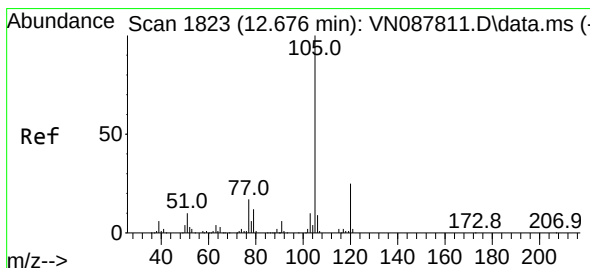
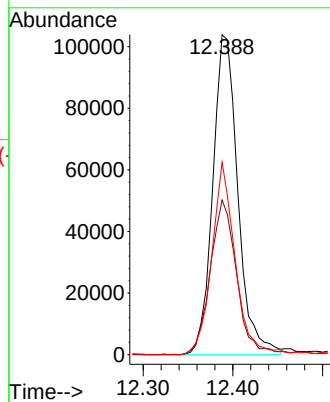
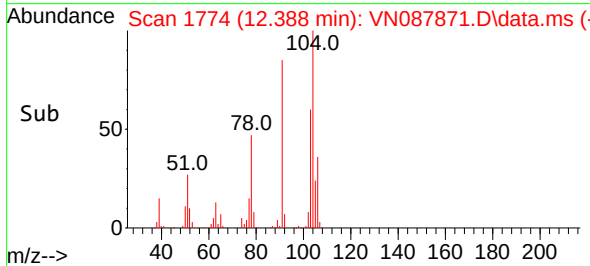
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



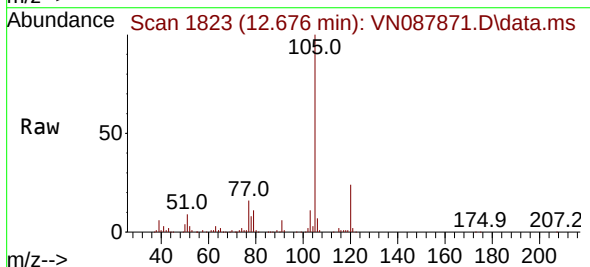
Tgt Ion:104 Resp: 201474  
Ion Ratio Lower Upper  
104 100  
78 49.5 41.0 61.6  
103 55.6 44.6 66.8

Manual Integrations  
APPROVED

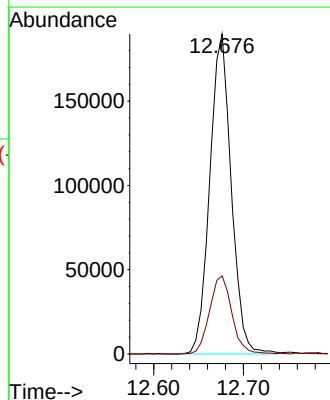
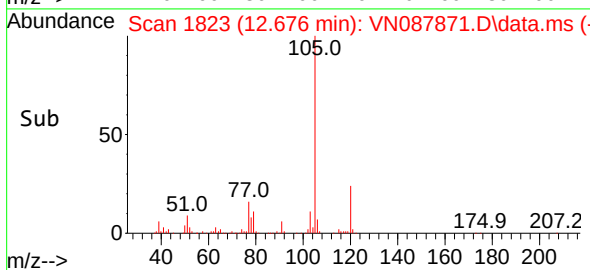
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

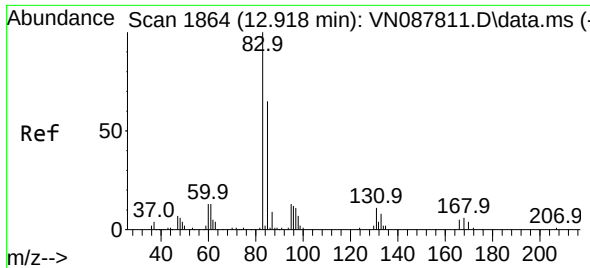


#70  
Isopropylbenzene  
Concen: 21.182 ug/l  
RT: 12.676 min Scan# 1823  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



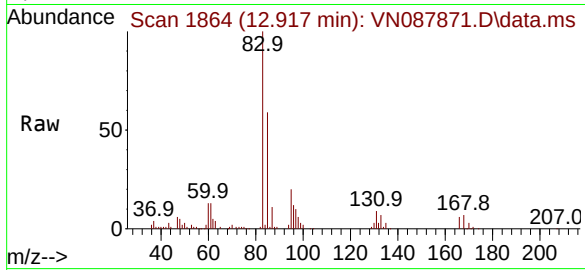
Tgt Ion:105 Resp: 315847  
Ion Ratio Lower Upper  
105 100  
120 25.3 17.4 32.4





#71  
1,1,2,2-Tetrachloroethane  
Concen: 21.355 ug/l  
RT: 12.917 min Scan# 1864  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

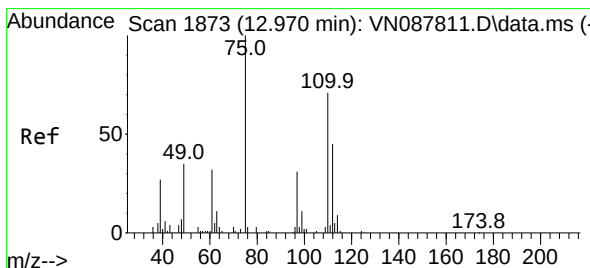
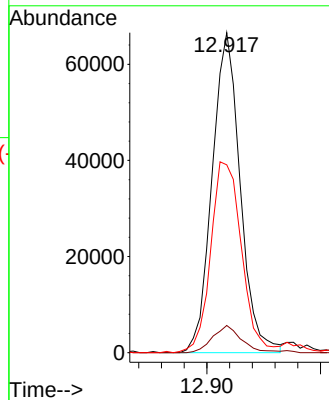
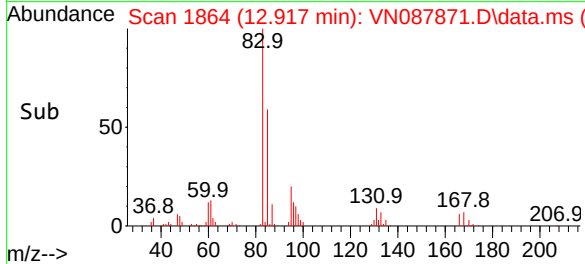
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



Tgt Ion: 83 Resp: 114474  
Ion Ratio Lower Upper  
83 100  
131 8.7 4.8 14.3  
85 65.0 31.9 95.7

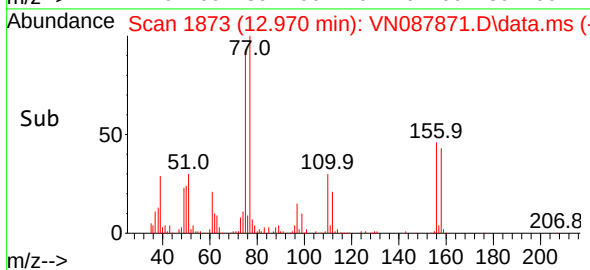
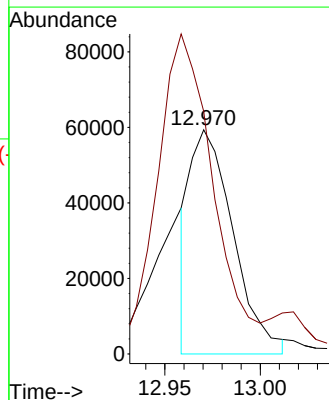
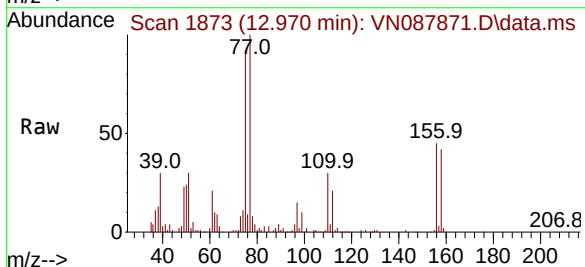
Manual Integrations  
APPROVED

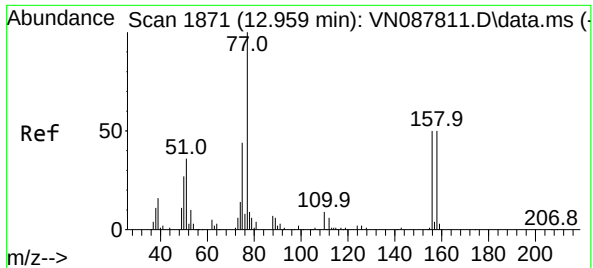
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#72  
1,2,3-Trichloropropane  
Concen: 17.671 ug/l m  
RT: 12.970 min Scan# 1873  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion: 75 Resp: 93013  
Ion Ratio Lower Upper  
75 100  
77 185.6 0.0 378.8





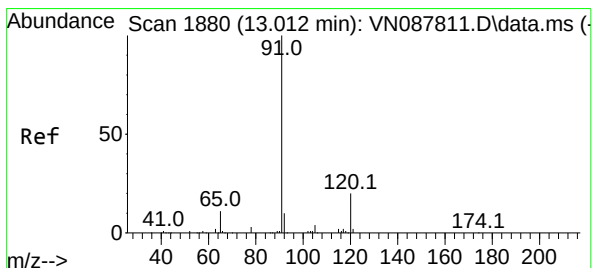
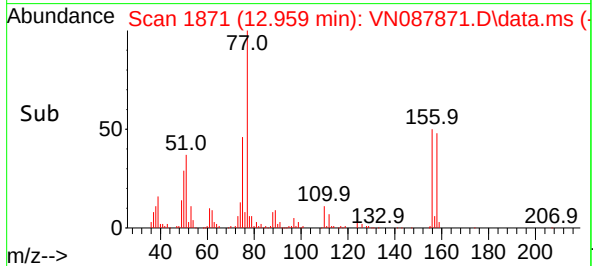
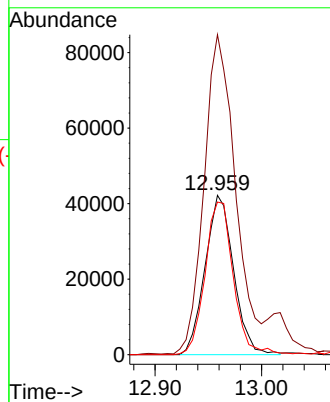
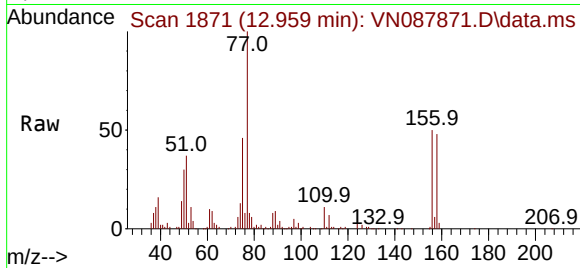
#73  
Bromobenzene  
Concen: 21.585 ug/l  
RT: 12.959 min Scan# 1871  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

| Tgt Ion:  | 156   | Resp: | 7874  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 156       | 100   |       |       |
| 77        | 219.2 | 0.0   | 484.2 |
| 158       | 94.8  | 0.0   | 186.2 |

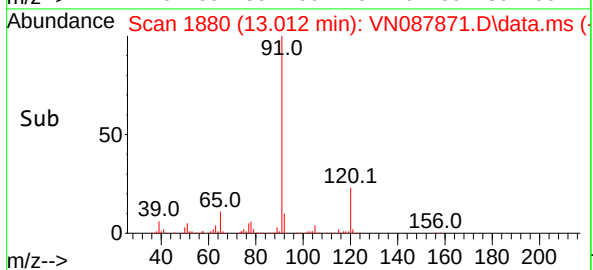
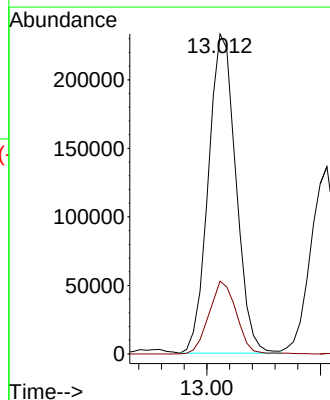
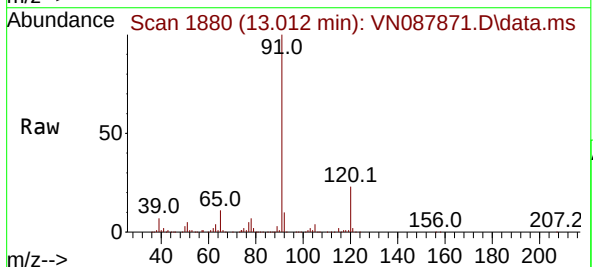
Manual Integrations  
APPROVED

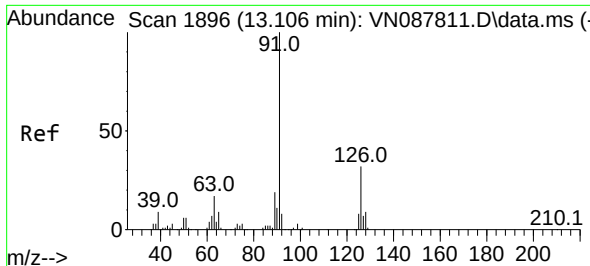
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#74  
n-propylbenzene  
Concen: 20.910 ug/l  
RT: 13.012 min Scan# 1880  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

| Tgt Ion:  | 91    | Resp: | 393403 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 22.4  | 0.0   | 42.2   |





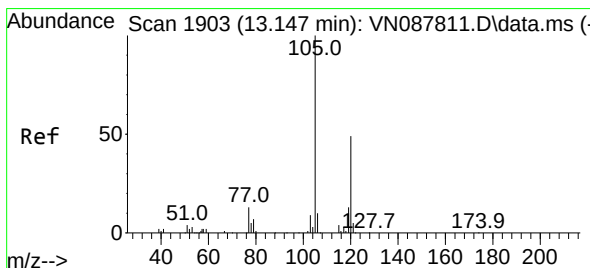
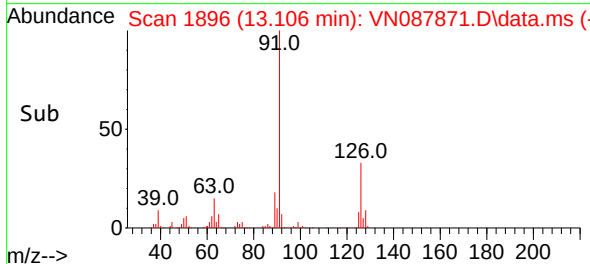
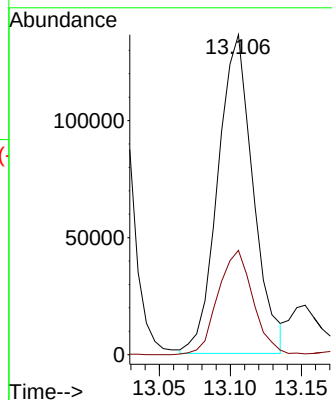
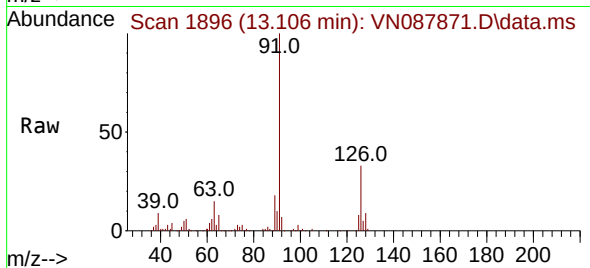
#75  
2-Chlorotoluene  
Concen: 20.768 ug/l  
RT: 13.106 min Scan# 1896  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 91 Resp: 235172  
Ion Ratio Lower Upper  
91 100  
126 32.7 0.0 60.4

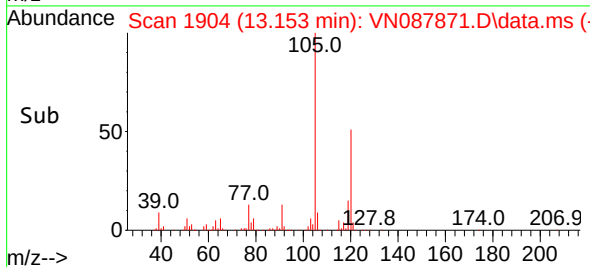
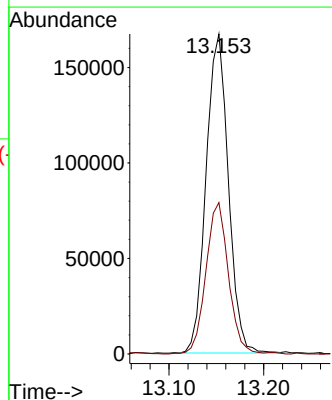
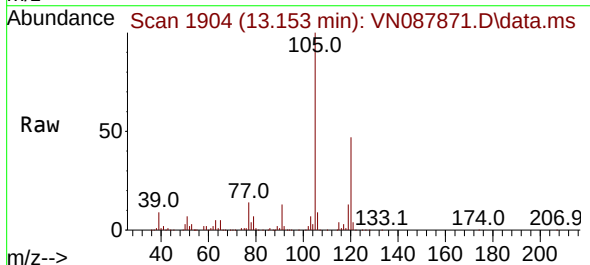
Manual Integrations  
APPROVED

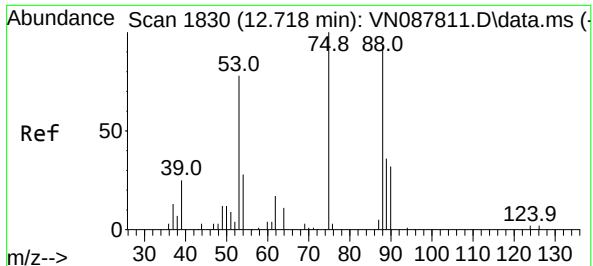
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 21.678 ug/l  
RT: 13.153 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion:105 Resp: 272968  
Ion Ratio Lower Upper  
105 100  
120 48.0 0.0 92.6





#77

t-1,4-Dichloro-2-butene

Concen: 20.524 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion: 75 Resp: 36462

Ion Ratio Lower Upper

75 100

53 94.8 45.3 135.9

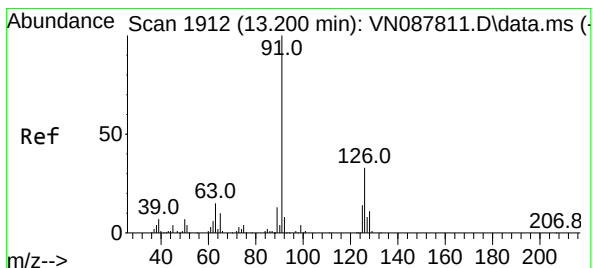
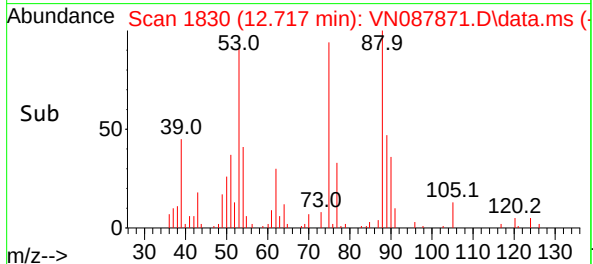
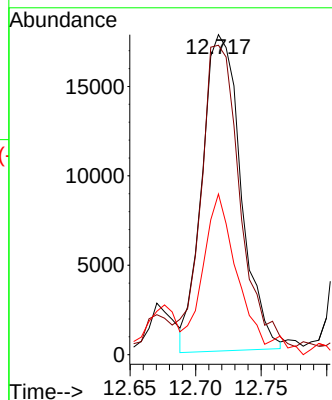
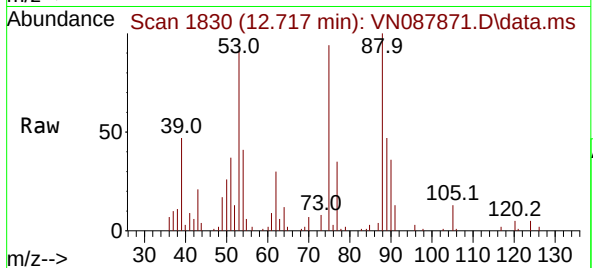
89 46.2 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#78

4-Chlorotoluene

Concen: 20.949 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. -0.000 min

Lab File: VN087871.D

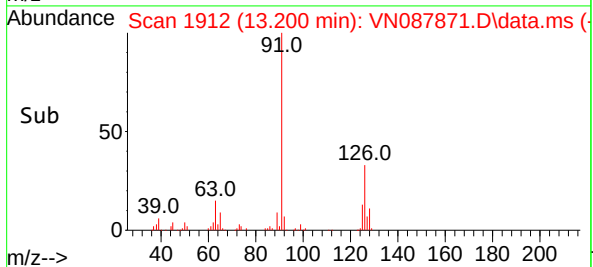
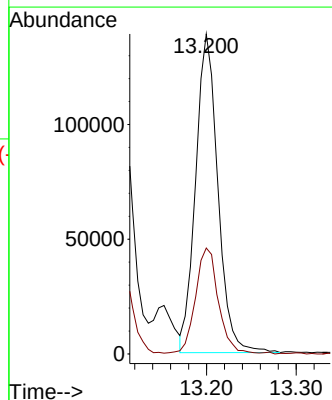
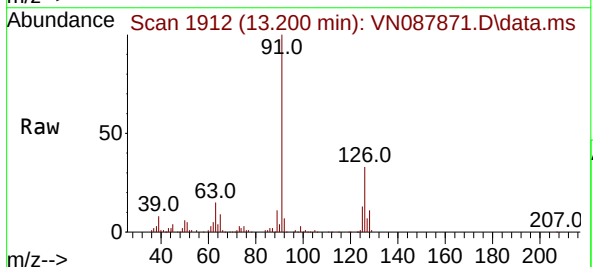
Acq: 17 Sep 2025 11:30

Tgt Ion: 91 Resp: 239153

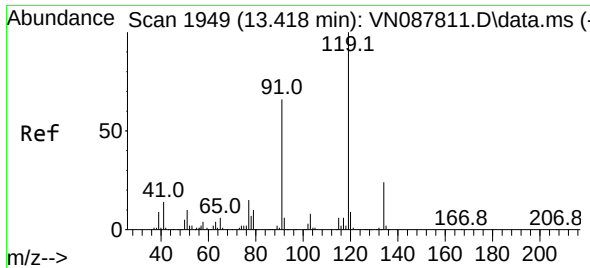
Ion Ratio Lower Upper

91 100

126 34.4 0.0 67.0

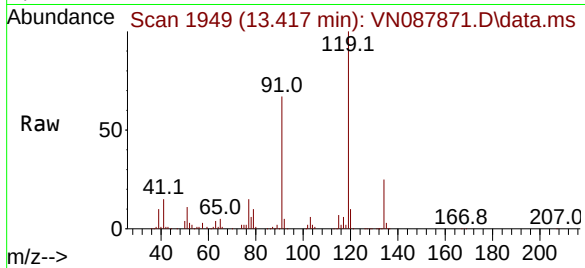






#79  
tert-butylbenzene  
Concen: 22.265 ug/l  
RT: 13.417 min Scan# 1949  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

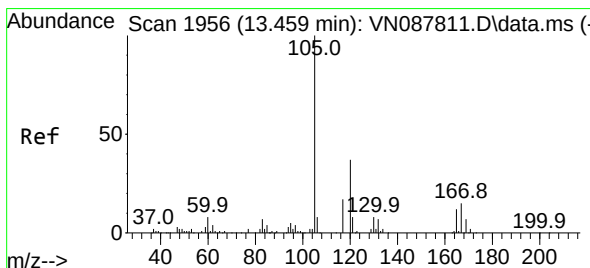
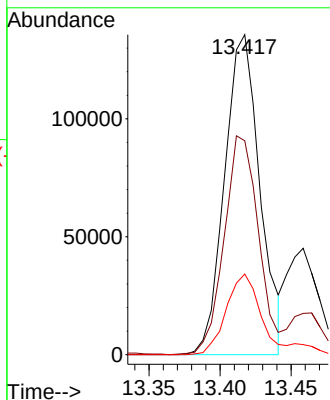
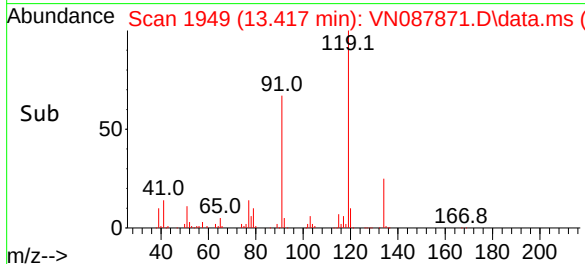
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



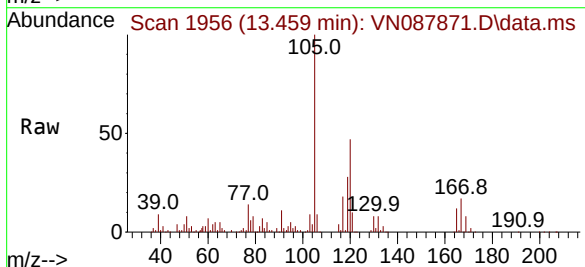
Tgt Ion:119 Resp: 23479  
Ion Ratio Lower Upper  
119 100  
91 66.4 0.0 142.6  
134 24.4 0.0 47.2

Manual Integrations  
APPROVED

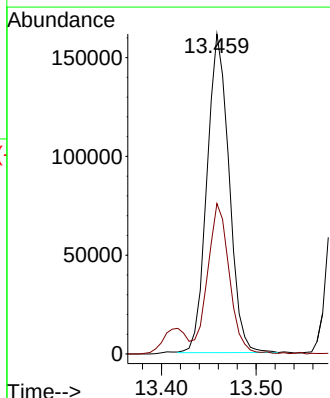
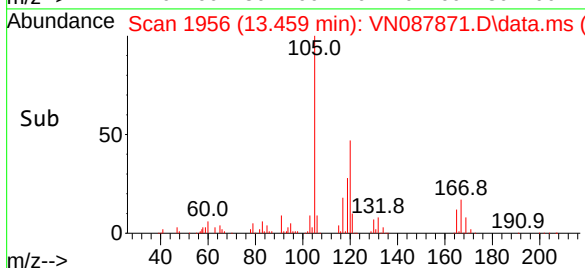
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

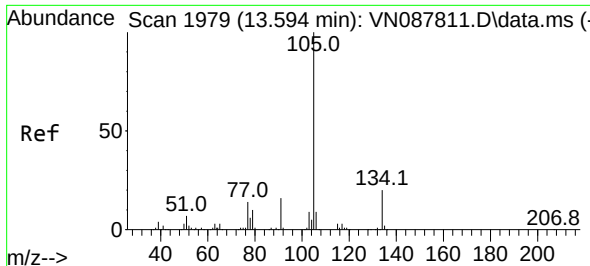


#80  
1,2,4-Trimethylbenzene  
Concen: 20.222 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



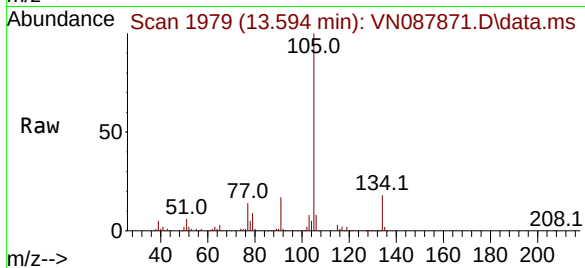
Tgt Ion:105 Resp: 261053  
Ion Ratio Lower Upper  
105 100  
120 46.4 0.0 86.6





#81  
sec-Butylbenzene  
Concen: 22.048 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

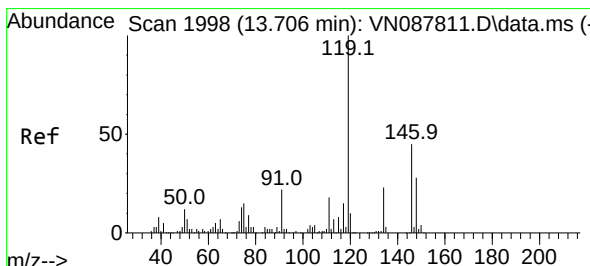
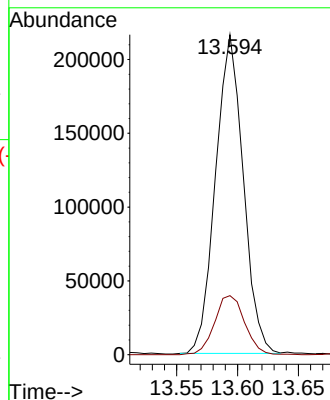
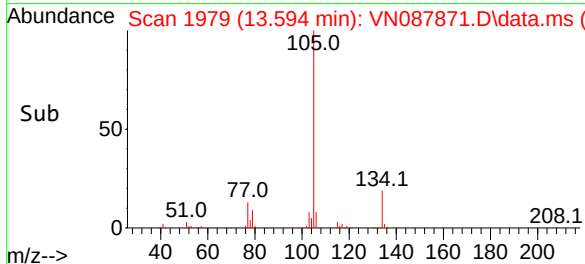
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



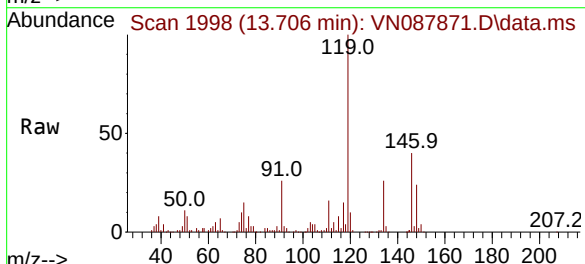
Tgt Ion:105 Resp: 341990  
Ion Ratio Lower Upper  
105 100  
134 20.2 0.0 37.0

Manual Integrations  
APPROVED

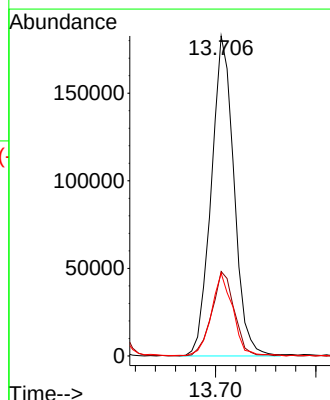
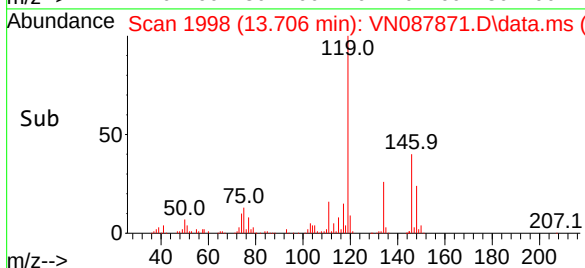
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

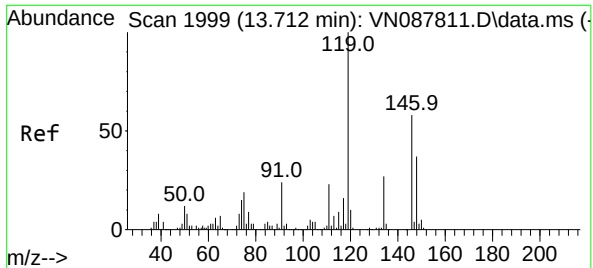


#82  
p-Isopropyltoluene  
Concen: 22.495 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



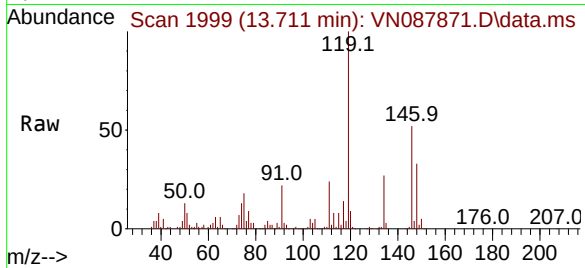
Tgt Ion:119 Resp: 287495  
Ion Ratio Lower Upper  
119 100  
134 25.8 0.0 49.4  
91 24.0 0.0 52.2





#83  
1,3-Dichlorobenzene  
Concen: 21.368 ug/l  
RT: 13.711 min Scan# 1999  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

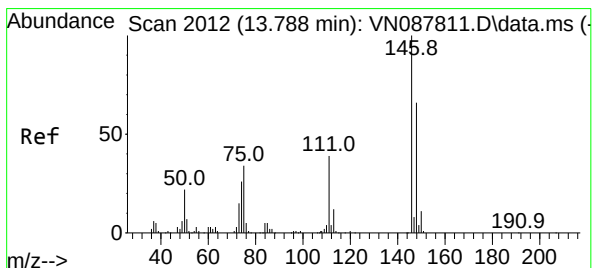
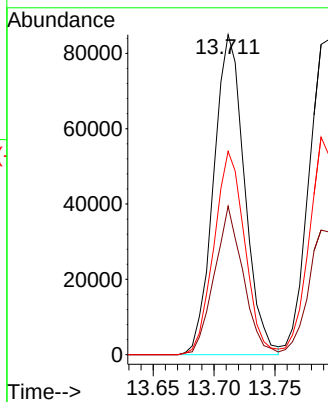
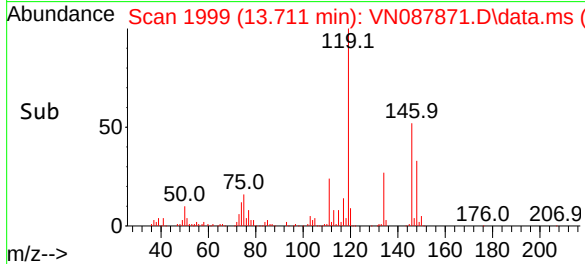
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01



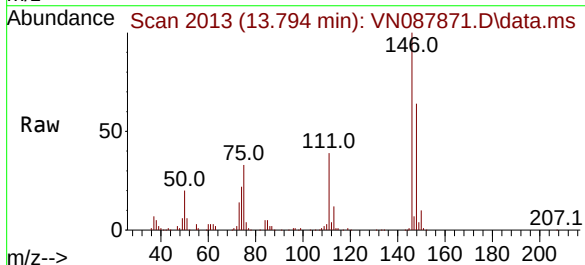
Tgt Ion:146 Resp: 150290  
Ion Ratio Lower Upper  
146 100  
111 43.3 21.1 63.4  
148 63.2 31.0 93.0

Manual Integrations  
APPROVED

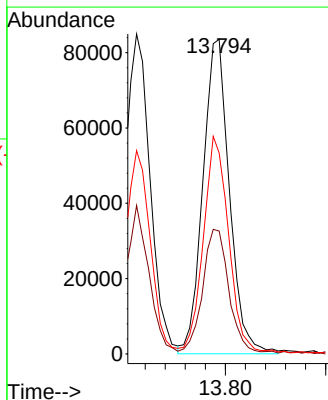
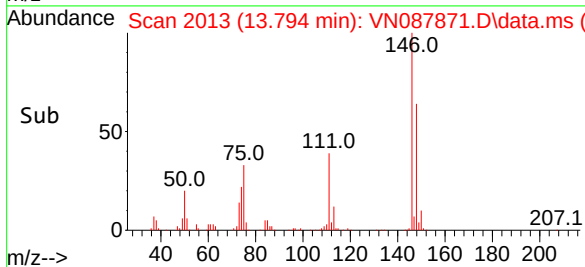
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025

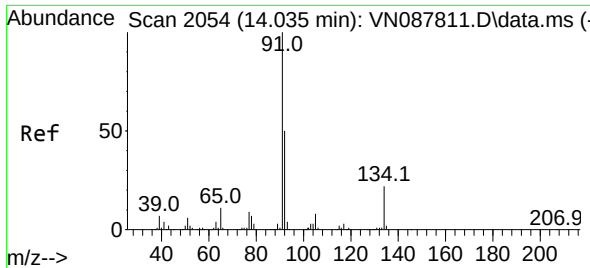


#84  
1,4-Dichlorobenzene  
Concen: 21.789 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30



Tgt Ion:146 Resp: 153609  
Ion Ratio Lower Upper  
146 100  
111 39.5 20.2 60.5  
148 66.2 31.5 94.5





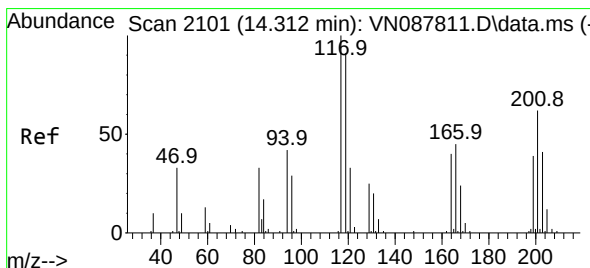
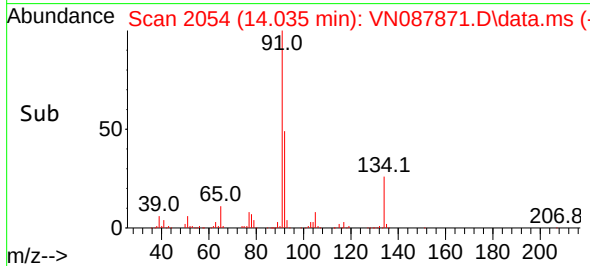
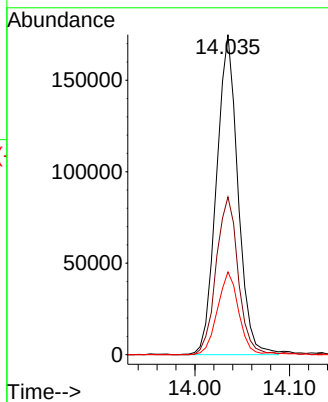
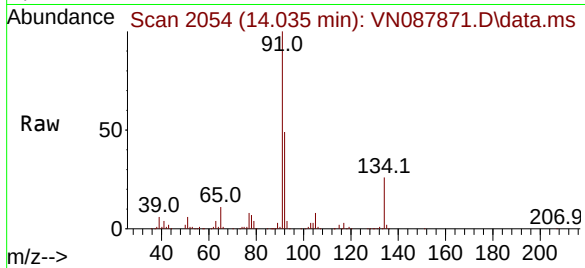
#85  
n-Butylbenzene  
Concen: 22.508 ug/l  
RT: 14.035 min Scan# 2054  
Delta R.T. -0.000 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0917WBSD01

Tgt Ion: 91 Resp: 27650  
Ion Ratio Lower Upper  
91 100  
92 50.4 0.0 104.0  
134 25.3 0.0 46.0

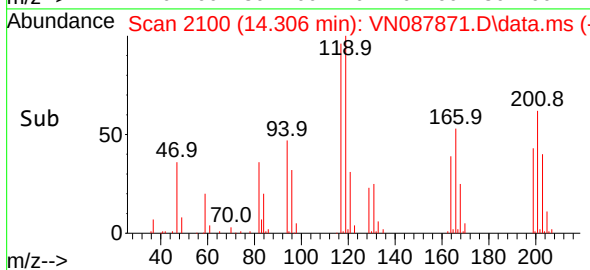
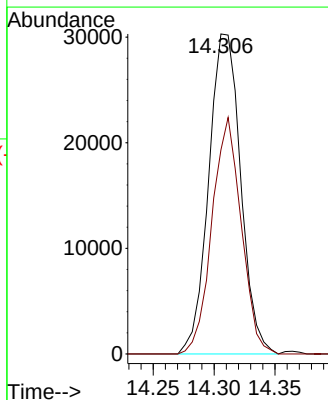
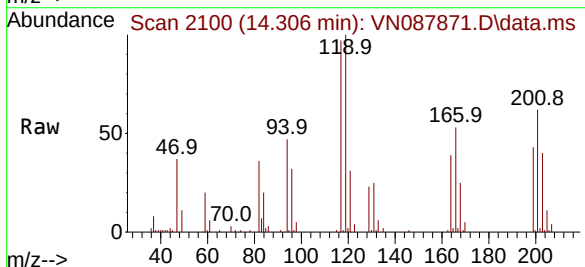
Manual Integrations  
APPROVED

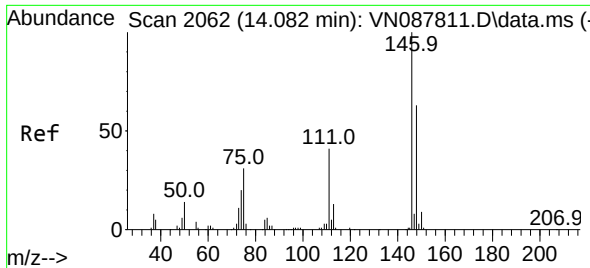
Reviewed By :John Carlone 09/18/2025  
Supervised By :Mahesh Dadoda 09/18/2025



#86  
Hexachloroethane  
Concen: 21.315 ug/l  
RT: 14.306 min Scan# 2100  
Delta R.T. -0.006 min  
Lab File: VN087871.D  
Acq: 17 Sep 2025 11:30

Tgt Ion:117 Resp: 55330  
Ion Ratio Lower Upper  
117 100  
201 67.6 29.9 89.7





#87

1,2-Dichlorobenzene

Concen: 22.015 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion:146 Resp: 14603

Ion Ratio Lower Upper

146 100

111 42.2 21.5 64.5

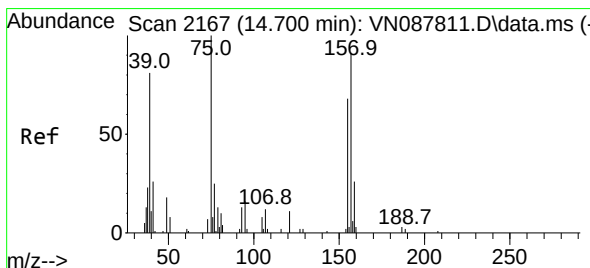
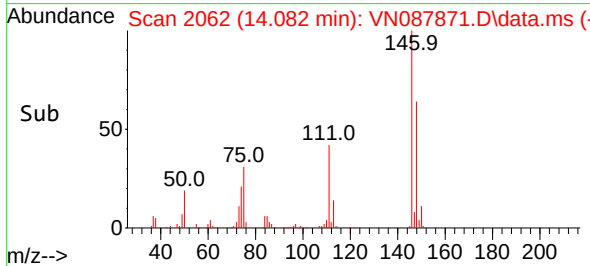
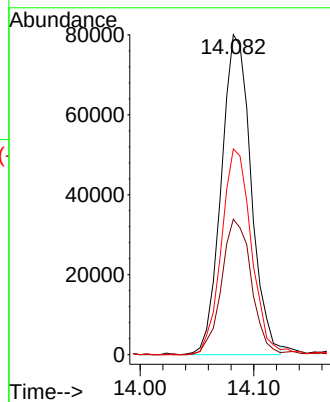
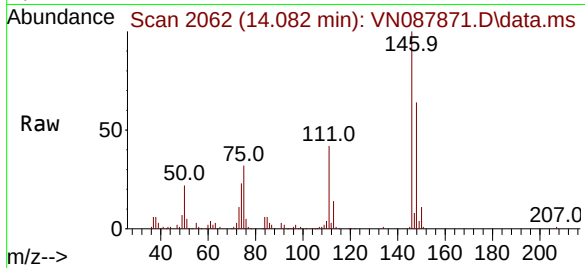
148 64.8 33.4 100.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 21.711 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

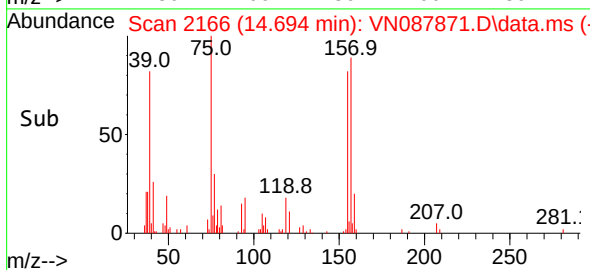
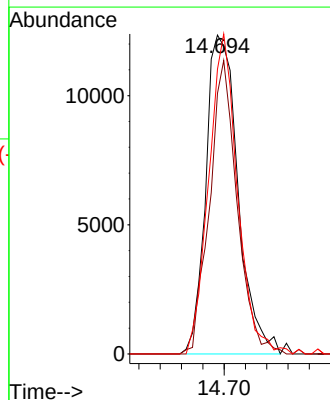
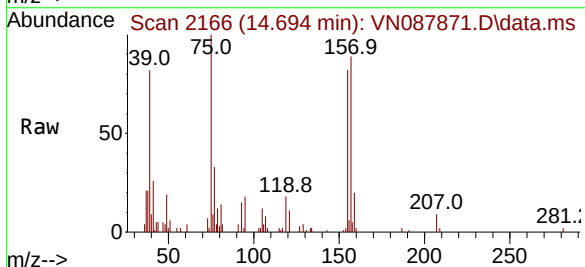
Tgt Ion: 75 Resp: 25828

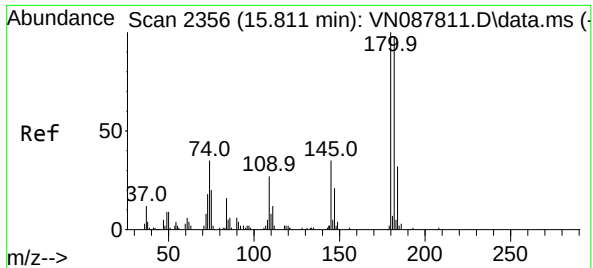
Ion Ratio Lower Upper

75 100

155 79.2 53.0 79.4

157 89.4 72.2 108.4





#89

1,2,4-Trichlorobenzene

Concen: 23.221 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

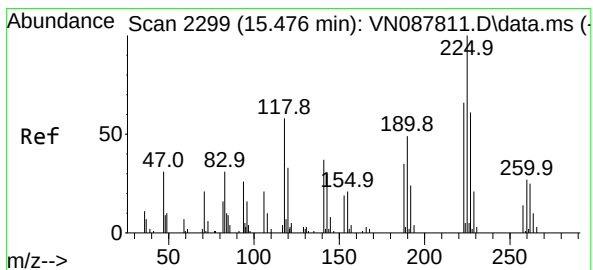
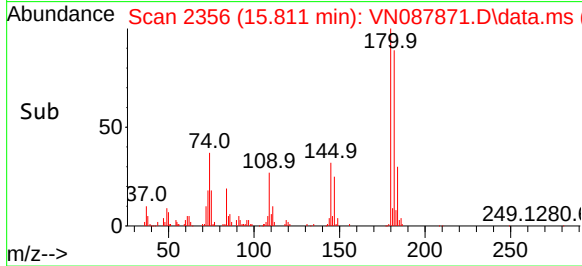
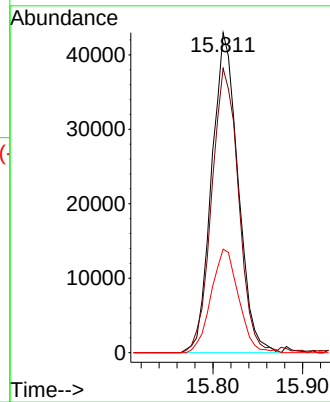
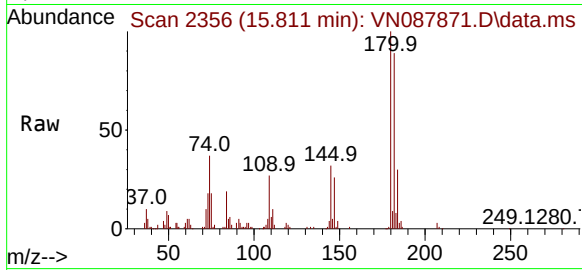
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 8761  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 90.4  | 74.6  | 111.8 |
| 145       | 33.7  | 27.4  | 41.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachlorobutadiene

Concen: 27.704 ug/l

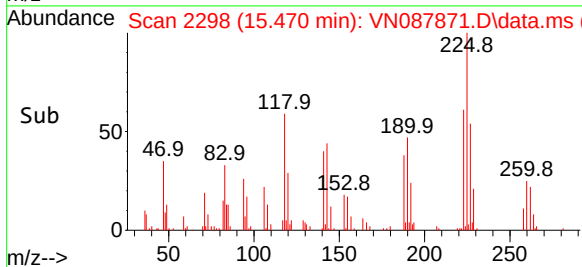
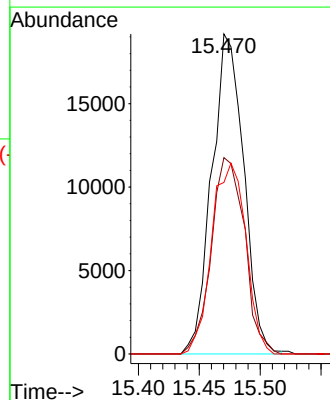
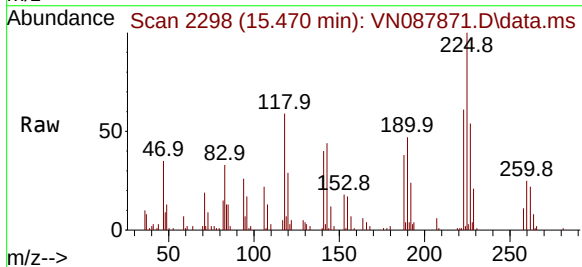
RT: 15.470 min Scan# 2298

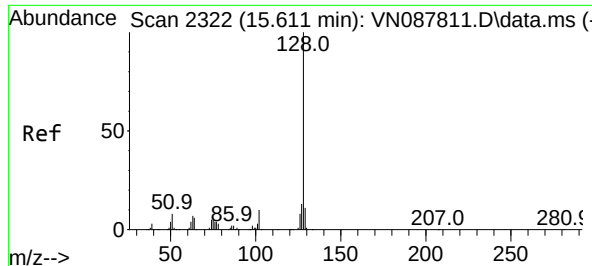
Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 35041 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 63.7  | 0.0   | 118.2 |
| 227       | 63.9  | 0.0   | 139.0 |





#91

Naphthalene

Concen: 21.607 ug/l

RT: 15.617 min Scan# 2322

Delta R.T. 0.006 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

Instrument :

MSVOA\_N

ClientSampleId :

VN0917WBSD01

Tgt Ion:128 Resp: 300110

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.4

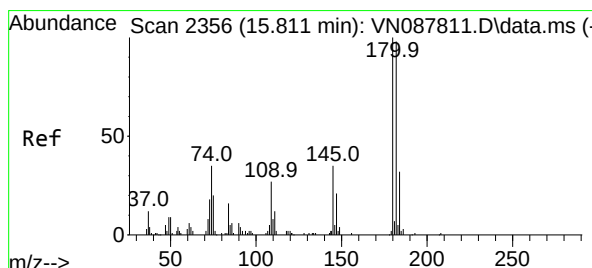
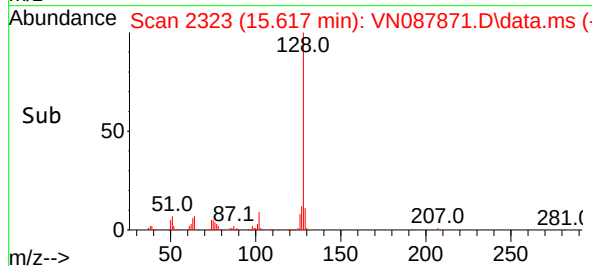
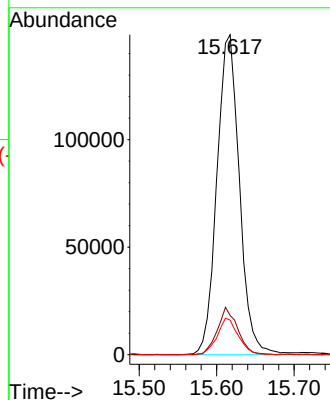
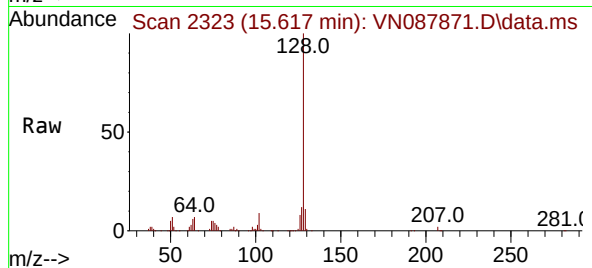
129 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#92

1,2,3-Trichlorobenzene

Concen: 23.221 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. -0.000 min

Lab File: VN087871.D

Acq: 17 Sep 2025 11:30

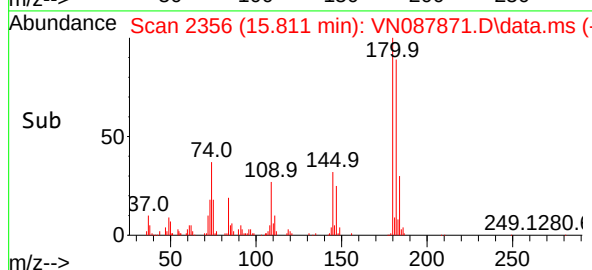
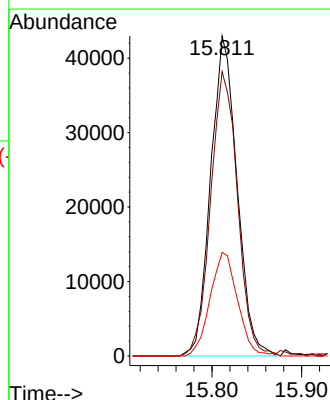
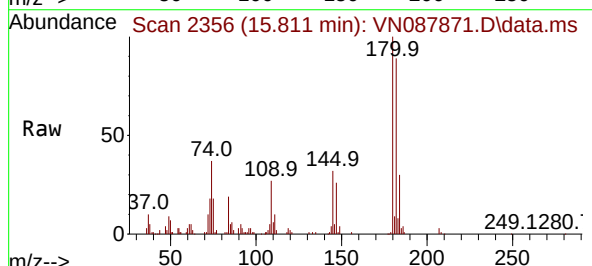
Tgt Ion:180 Resp: 87612

Ion Ratio Lower Upper

180 100

182 90.4 0.0 186.4

145 33.7 0.0 68.4



## 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 |
| 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 |
| VSTDICC005 | 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 |
| VSTDICC005 | 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 |
| VSTDICC005 | 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 |
| VSTDICC005 | VN087725.D | Acetone                        | sam       | 9/5/2025 1:45:43 PM | MMDadoda      | 9/5/2025 2:56:20 PM | Peak Integrated by Software |
| VSTDICC005 | VN087725.D | Allyl chloride                 | 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 | 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 |
| VSTDICCC020 | 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 |
| 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 |
| VSTDIC050   | 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 |
| VSTDIC050   | 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 |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vn090425 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter              | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|------------|------------|------------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| 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 |
| 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 |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VN091725 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID    | File ID    | Parameter                      | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|--------------|------------|--------------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC020   | VN087869.D | 1,2,3-Trichloropropane         | JOHN      | 9/18/2025 8:16:06 AM | MMDadoda      | 9/18/2025 3:25:08 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087869.D | Allyl chloride                 | JOHN      | 9/18/2025 8:16:06 AM | MMDadoda      | 9/18/2025 3:25:08 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087869.D | Ethyl Benzene                  | JOHN      | 9/18/2025 8:16:06 AM | MMDadoda      | 9/18/2025 3:25:08 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087869.D | n-amyl Acetate                 | JOHN      | 9/18/2025 8:16:06 AM | MMDadoda      | 9/18/2025 3:25:08 PM | Peak Integrated by Software |
| VSTDCCC020   | VN087869.D | t-1,4-Dichloro-2-butene        | JOHN      | 9/18/2025 8:16:06 AM | MMDadoda      | 9/18/2025 3:25:08 PM | Peak Integrated by Software |
| VN0917WBS01  | VN087870.D | 1,1,2-Trichlorotrifluoroethane | JOHN      | 9/18/2025 8:16:10 AM | MMDadoda      | 9/18/2025 3:25:10 PM | Peak Integrated by Software |
| VN0917WBS01  | VN087870.D | 1,2,3-Trichloropropane         | JOHN      | 9/18/2025 8:16:10 AM | MMDadoda      | 9/18/2025 3:25:10 PM | Peak Integrated by Software |
| VN0917WBS01  | VN087870.D | Acrolein                       | JOHN      | 9/18/2025 8:16:10 AM | MMDadoda      | 9/18/2025 3:25:10 PM | Peak Integrated by Software |
| VN0917WBS01  | VN087870.D | Methylene Chloride             | JOHN      | 9/18/2025 8:16:10 AM | MMDadoda      | 9/18/2025 3:25:10 PM | Peak Integrated by Software |
| VN0917WBS01  | VN087870.D | n-amyl Acetate                 | JOHN      | 9/18/2025 8:16:10 AM | MMDadoda      | 9/18/2025 3:25:10 PM | Peak Integrated by Software |
| VN0917WBSD01 | VN087871.D | 1,2,3-Trichloropropane         | JOHN      | 9/18/2025 8:16:15 AM | MMDadoda      | 9/18/2025 3:25:09 PM | Peak Integrated by Software |
| VN0917WBSD01 | VN087871.D | Acetone                        | JOHN      | 9/18/2025 8:16:15 AM | MMDadoda      | 9/18/2025 3:25:09 PM | Peak Integrated by Software |
| VN0917WBSD01 | VN087871.D | Acrolein                       | JOHN      | 9/18/2025 8:16:15 AM | MMDadoda      | 9/18/2025 3:25:09 PM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VN091725 | Instrument | MSVOA_n |
|-----------|----------|------------|---------|

| Sample ID        | File ID    | Parameter              | Review By | Review On               | Supervised By | Supervised On           | Reason                      |
|------------------|------------|------------------------|-----------|-------------------------|---------------|-------------------------|-----------------------------|
| VN0917WBSD0<br>1 | VN087871.D | n-amyl Acetate         | JOHN      | 9/18/2025 8:16:15<br>AM | MMDadoda      | 9/18/2025 3:25:09<br>PM | Peak Integrated by Software |
| VN0917WBSD0<br>1 | VN087871.D | tert-Butyl Alcohol     | JOHN      | 9/18/2025 8:16:15<br>AM | MMDadoda      | 9/18/2025 3:25:09<br>PM | Peak Integrated by Software |
| VSTDCCC020       | VN087883.D | 1,2,3-Trichloropropane | JOHN      | 9/18/2025 8:16:41<br>AM | MMDadoda      | 9/18/2025 3:25:18<br>PM | Peak Integrated by Software |
| VSTDCCC020       | VN087883.D | Acrolein               | JOHN      | 9/18/2025 8:16:41<br>AM | MMDadoda      | 9/18/2025 3:25:18<br>PM | Peak Integrated by Software |
| VSTDCCC020       | VN087883.D | n-amyl Acetate         | JOHN      | 9/18/2025 8:16:41<br>AM | MMDadoda      | 9/18/2025 3:25:18<br>PM | Peak Integrated by Software |

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 # VN091725**

|                                                                                                    |                   |                   |                                    |
|----------------------------------------------------------------------------------------------------|-------------------|-------------------|------------------------------------|
| Review By                                                                                          | John Carlone      | Review On         | 9/18/2025 8:19:51 AM               |
| Supervise By                                                                                       | Maresh Dadoda     | Supervise On      | 9/18/2025 3:25:32 PM               |
| SubDirectory                                                                                       | VN091725          | HP Acquire Method | HP Processing Method 624N090425W.M |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>  |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP135514          |                   |                                    |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP135515,VP135516 |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VN087868.D     | 17 Sep 2025 08:24 | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VN087869.D     | 17 Sep 2025 09:42 | JC\MD    | Ok,M   |
| 3   | VN0917WBS01  | VN087870.D     | 17 Sep 2025 10:55 | JC\MD    | Ok,M   |
| 4   | VN0917WBSD01 | VN087871.D     | 17 Sep 2025 11:30 | JC\MD    | Ok,M   |
| 5   | VN0917WBL01  | VN087872.D     | 17 Sep 2025 12:03 | JC\MD    | Ok     |
| 6   | Q3015-02     | VN087873.D     | 17 Sep 2025 12:38 | JC\MD    | Ok     |
| 7   | IBLK         | VN087874.D     | 17 Sep 2025 13:11 | JC\MD    | Ok     |
| 8   | Q3120-01     | VN087875.D     | 17 Sep 2025 13:32 | JC\MD    | Ok     |
| 9   | Q3120-02     | VN087876.D     | 17 Sep 2025 13:53 | JC\MD    | Ok,M   |
| 10  | IBLK         | VN087877.D     | 17 Sep 2025 14:14 | JC\MD    | Ok     |
| 11  | Q3098-01     | VN087878.D     | 17 Sep 2025 14:35 | JC\MD    | ReRun  |
| 12  | Q3098-02MS   | VN087879.D     | 17 Sep 2025 14:57 | JC\MD    | Ok,M   |
| 13  | Q3098-03MSD  | VN087880.D     | 17 Sep 2025 15:18 | JC\MD    | Ok,M   |
| 14  | IBLK         | VN087881.D     | 17 Sep 2025 15:39 | JC\MD    | Ok     |
| 15  | Q3098-01     | VN087882.D     | 17 Sep 2025 16:00 | JC\MD    | Ok,M   |
| 16  | VSTDCCC020   | VN087883.D     | 17 Sep 2025 16:21 | 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



Instrument ID: MSVOA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # VN091725**

|              |               |                   |                                    |
|--------------|---------------|-------------------|------------------------------------|
| Review By    | John Carlone  | Review On         | 9/18/2025 8:19:51 AM               |
| Supervise By | Mahesh Dadoda | Supervise On      | 9/18/2025 3:25:32 PM               |
| SubDirectory | VN091725      | HP Acquire Method | HP Processing Method 624N090425W.M |

| STD. NAME                                                                                          | STD REF.#         |
|----------------------------------------------------------------------------------------------------|-------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP135514          |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP135515,VP135516 |

| Sr# | SampleID     | ClientID         | Data File Name | Date-Time         | Comment                    | Operator | Status |
|-----|--------------|------------------|----------------|-------------------|----------------------------|----------|--------|
| 1   | BFB          | BFB              | VN087868.D     | 17 Sep 2025 08:24 |                            | JC\MD    | Ok     |
| 2   | VSTDCCC020   | VSTDCCC020       | VN087869.D     | 17 Sep 2025 09:42 | pH#Lot#V12668              | JC\MD    | Ok,M   |
| 3   | VN0917WBS01  | VN0917WBS01      | VN087870.D     | 17 Sep 2025 10:55 |                            | JC\MD    | Ok,M   |
| 4   | VN0917WBSD01 | VN0917WBSD01     | VN087871.D     | 17 Sep 2025 11:30 |                            | JC\MD    | Ok,M   |
| 5   | VN0917WBL01  | VN0917WBL01      | VN087872.D     | 17 Sep 2025 12:03 |                            | JC\MD    | Ok     |
| 6   | Q3015-02     | WP0925-PT-VOA-WP | VN087873.D     | 17 Sep 2025 12:38 |                            | JC\MD    | Ok     |
| 7   | IBLK         | IBLK             | VN087874.D     | 17 Sep 2025 13:11 |                            | JC\MD    | Ok     |
| 8   | Q3120-01     | OUTFALL-DSN-001  | VN087875.D     | 17 Sep 2025 13:32 | vial A pH<2                | JC\MD    | Ok     |
| 9   | Q3120-02     | OUTFALL-DSN-002  | VN087876.D     | 17 Sep 2025 13:53 | vial A pH<2                | JC\MD    | Ok,M   |
| 10  | IBLK         | IBLK             | VN087877.D     | 17 Sep 2025 14:14 |                            | JC\MD    | Ok     |
| 11  | Q3098-01     | EFF-WW           | VN087878.D     | 17 Sep 2025 14:35 | vial A pH<2 Surrogate fail | JC\MD    | ReRun  |
| 12  | Q3098-02MS   | EFF-WWMS         | VN087879.D     | 17 Sep 2025 14:57 | vial A pH<2                | JC\MD    | Ok,M   |
| 13  | Q3098-03MSD  | EFF-WWMSD        | VN087880.D     | 17 Sep 2025 15:18 | vial A pH<2                | JC\MD    | Ok,M   |
| 14  | IBLK         | IBLK             | VN087881.D     | 17 Sep 2025 15:39 |                            | JC\MD    | Ok     |
| 15  | Q3098-01     | EFF-WW           | VN087882.D     | 17 Sep 2025 16:00 | vial B pH<2                | JC\MD    | Ok,M   |
| 16  | VSTDCCC020   | VSTDCCC020EC     | VN087883.D     | 17 Sep 2025 16:21 |                            | JC\MD    | Ok,M   |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3015

**Test :** VOCMS Group1

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VN091725,

**Standard ID :**

VP134149,VP134691,VP134957,VP135059,VP135480,VP135514,VP135515,VP135516,

**Chemical ID :**

V13391,V14444,V14446,V14507,V14508,V14529,V14530,V14580,V14625,V14629,V14636,V14637,V14638,V14639,V14702,V14705,V14716,V14745,V14751,V14806,V14807,V14843,V14885,V14929,V15066,V15067,V15068,W 3112,

## 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 Std(2-CVE)-800ppm | <a href="#">VP134149</a> | 06/06/2025       | 12/06/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                |                          |                  |                        |                     |                |                  | 06/10/2025           |

**FROM** 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

| <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> |
|------------------|---------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 51               | 8260 Working STD (Acrolein) -first source, 800PPM | <a href="#">VP135480</a> | 09/16/2025       | 10/15/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                   |                          |                  |                        |                     |                |                  | 09/19/2025           |

**FROM** 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

| <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="#">VP135514</a> | 09/17/2025       | 09/18/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
|                  |                |                          |                  |                        |                    |                |                  | 09/19/2025           |

**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="#">VP135515</a> | 09/17/2025       | 09/18/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
| <b>FROM</b> 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135480 + 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="#">VP135516</a> | 09/17/2025       | 09/18/2025             | John Carlone       | None           | None             | Maresh Dadoda        |
| <b>FROM</b> 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135480 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml |                 |                          |                  |                        |                    |                |                  |                      |

## 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   | 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 | 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         |

| 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         |

## 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) | 091525 | 10/15/2025      | 09/16/2025 / sam        | 09/16/2025 / sam            | V15066         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025      | 09/16/2025 / sam        | 09/16/2025 / sam            | V15067         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025      | 09/16/2025 / sam        | 09/16/2025 / sam            | V15068         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / lwona      | 07/03/2024 / lwona          | W3112          |

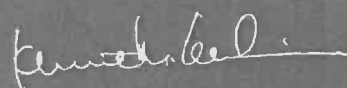
Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## 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

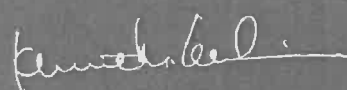
Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## Certificate of Analysis

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|---------------------------------------------------------|---------------|----------|
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| 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





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-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

| Compound                            | (KME)  | Lot         | DR   | Initial | Initial | Nominal | Purity | Purity | Uncertainty | Target  | Actual  | Actual | Expanded | SDS Information                        |                              |                   |
|-------------------------------------|--------|-------------|------|---------|---------|---------|--------|--------|-------------|---------|---------|--------|----------|----------------------------------------|------------------------------|-------------------|
|                                     |        |             |      |         |         |         |        |        |             |         |         |        |          | (Solvent Safety Info. On Attached pg.) | 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 2400mg/kg  |
| 2. Allyl chloride (3-Chloropropene) | (0325) | 102366      | 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      | 1478-11-6                              | N/A                          | N/A               |
| 5. trans-1,4-Dichloro-2-butene      | (0486) | MKBP9041V   | NA   | NA      | NA      | 2000    | 96.5   | 0.2    | NA          | 0.20731 | 0.20746 | 2001.7 | 8.4      | 110-57-6                               | N/A                          | 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                                | N/A                          | N/A               |
| 7. Ethyl methacrylate               | (0381) | 06128PX     | NA   | NA      | NA      | 2000    | 99     | 0.2    | NA          | 0.20207 | 0.20230 | 2002.3 | 8.2      | 97-63-2                                | N/A                          | N/A               |
| 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 14800mg/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 3460mg/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                 | (0755) | 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 787mg/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) | HG02JXK     | 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. Pentachloroethane               | (0460) | HGA01       | NA   | NA      | NA      | 2000    | 98     | 0.2    | NA          | 0.20413 | 0.20430 | 2001.6 | 8.3      | 78-01-7                                | N/A                          | N/A               |
| 16. 1,1,2-Trichlorotrifluoroethane  | (0474) | 18990       | NA   | NA      | NA      | 2000    | 99     | 0.2    | NA          | 0.20207 | 0.20225 | 2001.8 | 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 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                               | N/A                          | or-rat 848mg/kg   |
| 19. cis-1,2-Dichloroethene          | 35171  | 101623      | 0.05 | 5.00    | 40003.1 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.6 | 22.9     | 158-59-2                               | N/A                          | or-rat 848mg/kg   |
| 20. trans-1,2-Dichloroethene        | 35171  | 101623      | 0.05 | 5.00    | 40002.4 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.6 | 23.0     | 158-60-5                               | 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 820mg/kg   |
| 22. 1,1-Dichloroethane              | 35171  | 101623      | 0.05 | 5.00    | 40003.2 | 2000    | NA     | NA     | 0.042       | NA      | NA      | 1999.7 | 20.4     | 75-35-4                                | 1 ppm (4mg/m3/8H)            | or-rat 200mg/kg   |
| 23. Bromoform                       | 95321  | 020724      | 0.10 | 10.00   | 20001.6 | 2000    | NA     | NA     | 0.042       | NA      | NA      | 1999.8 | 20.5     | 75-25-2                                | 0.5 ppm (5mg/m3) (skin)      | or-rat 933mg/kg   |
| 24. Carbon tetrachloride            | 95321  | 020724      | 0.10 | 10.00   | 20003.2 | 2000    | NA     | NA     | 0.042       | NA      | NA      | 1999.8 | 20.4     | 58-23-5                                | 2 ppm (12.6mg/m3/8H)         | or-rat 2350mg/kg  |
| 25. Chloroform                      | 95321  | 020724      | 0.10 | 10.00   | 20004.0 | 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                                | N/A                          | 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 | 20.4     | 594-20-7                               | N/A                          | 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     | 75-34-3                                | 100 ppm                      | 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-Dichloropropane             | 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-Dichloroethane              | 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 1847mg/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                          | or-rat 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                               | 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     | 10081-01-5                             | N/A                          | N/A               |
| 38. trans-1,3-Dichloropropene       | 35161  | 112322      | 0.05 | 5.00    | 40017.6 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 2000.4 | 23.0     | 10081-02-6                             | 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     | 830-20-6                               | 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 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    | 40007.5 | 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    | 40006.0 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 104-51-8                               | 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     | 100-41-4                               | 100 ppm (435mg/m3/8H)        | or-rat >2000mg/kg |
| 48. Ethyl benzene                   | 35162  | 050823      | 0.05 | 5.00    | 40004.8 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 99-87-6                                | N/A                          | 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    | 40004.8 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 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      | 1999.8 | 22.9     | 108-88-3                               | 200 ppm                      | or-rat 5000mg/kg  |
| 52. Toluene                         | 35162  | 050823      | 0.05 | 5.00    | 40006.2 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 87-81-6                                | N/A                          | 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                                | N/A                          | 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                               | N/A                          | 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 | 22.9     | 109-38-3                               | 100 ppm (435mg/m3/8H)        | 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     | 96-06-6                                | N/A                          | N/A               |
| 58. tert-Butyl benzene              | 35163  | 101923      | 0.05 | 5.00    | 40001.2 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.8 | 22.9     | 135-98-8                               | N/A                          | or-rat 2240mg/kg  |
| 59. sec-Butyl benzene               | 35163  | 101923      | 0.05 | 5.00    | 40002.4 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 108-90-7                               | 75 ppm (350mg/m3/8H)         | or-rat 2290mg/kg  |
| 60. Chlorobenzene                   | 35163  | 101923      | 0.05 | 5.00    | 40003.8 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.5 | 22.9     | 95-49-8                                | 50 ppm (250mg/m3/8H)         | or-rat 3900mg/kg  |
| 61. 2-Chlorotoluene                 | 35163  | 101923      | 0.05 | 5.00    | 40003.3 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 106-43-4                               | N/A                          | or-rat 2100mg/kg  |
| 62. 4-Chlorotoluene                 | 35163  | 101923      | 0.05 | 5.00    | 40003.3 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.7 | 22.9     | 95-50-1                                | 50 ppm (300mg/m3) (CL)       | or-rat 500mg/kg   |
| 63. 1,2-Dichlorobenzene             | 35163  | 101923      | 0.05 | 5.00    | 40001.7 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.6 | 23.0     | 541-73-1                               | N/A                          | or-rat 1060mg/kg  |
| 64. 1,3-Dichlorobenzene             | 35163  | 101923      | 0.05 | 5.00    | 40001.7 | 2000    | NA     | NA     | 0.017       | NA      | NA      | 1999.6 | 22.9     | 108-46-7                               | 75 ppm (450mg/m3/8H)         | or-r              |

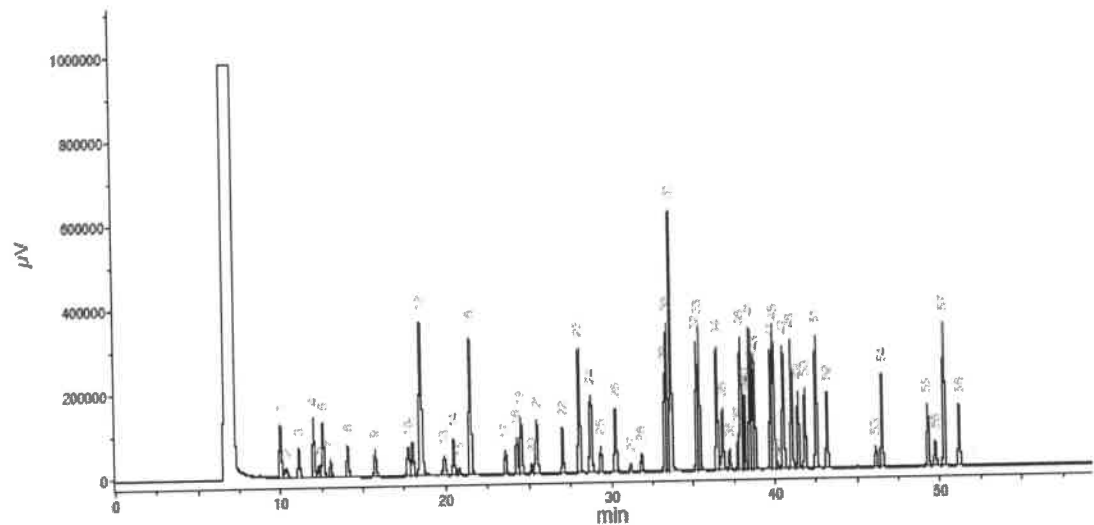


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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     | Hexamethylcyclotriphosphorotriazine/Hexyl acrylate/Chloroform | 18.49         |
| 13     | Isobutanol/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     | Bromodichloromethane                                          | 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                                         | 30.94         |
| 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                                             | 35.53         |
| 32     | o-Xylene                                                      | 35.70         |
| 33     | Styrene                                                       | 35.76         |
| 34     | Isopropylbenzene/Bromofarm                                    | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                                     | 36.80         |
| 36     | 1,1,2-Trichloropropane                                        | 37.23         |
| 37     | n-Propylbenzene                                               | 37.72         |
| 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                                           | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                                   | 46.12         |
| 54     | Nitrobenzene                                                  | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                                        | 49.26         |
| 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):

Methanol EG359-USQ12

Lot#

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 5E-05 Balance Uncertainty

Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

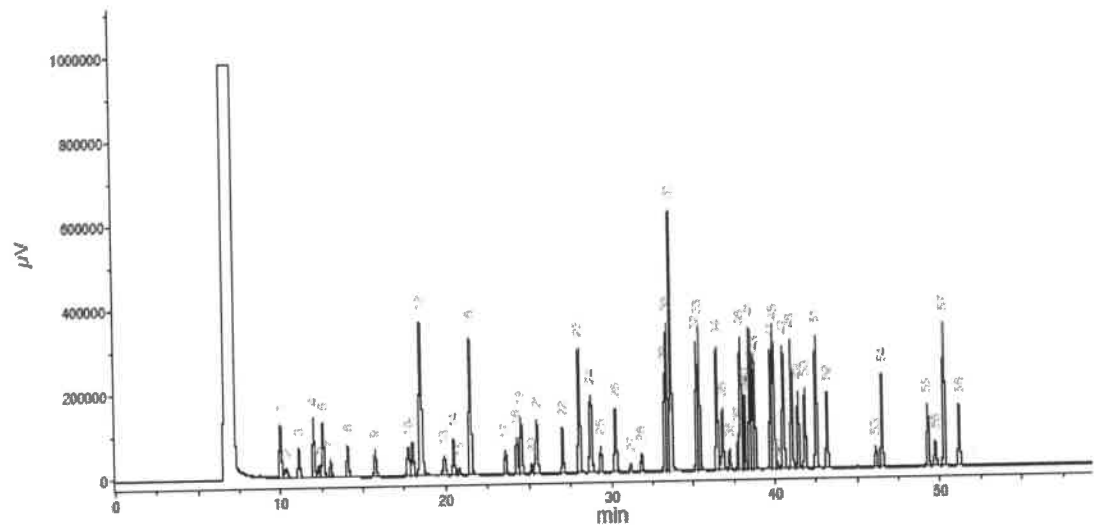
| Compound                            | (KME)  | Lot         | DIL  | Initial Vol. (mL) | Initial Conc. (µg/mL) | Nominal Conc. (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc. (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information                        |                             |                   |
|-------------------------------------|--------|-------------|------|-------------------|-----------------------|-----------------------|------------|--------------------|--------------------------|------------------|------------------|----------------------|------------------------------------|----------------------------------------|-----------------------------|-------------------|
|                                     |        |             |      |                   |                       |                       |            |                    |                          |                  |                  |                      |                                    | (Solvent Safety Info. On Attached pg.) |                             |                   |
|                                     |        |             |      |                   |                       |                       |            |                    |                          |                  |                  |                      |                                    | Part Number                            | Number                      | Factor            |
| 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                              | N/A                         | N/A               |
| 5. trans-1,4-Dichloro-2-butene      | (0486) | MKBP9041V   | NA   | NA                | NA                    | 2000                  | 96.5       | 0.2                | NA                       | 0.20731          | 0.20746          | 2001.7               | 8.4                                | 110-57-6                               | N/A                         | 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                                | N/A                         | N/A               |
| 7. Ethyl methacrylate               | (0381) | 06128PX     | NA   | NA                | NA                    | 2000                  | 99         | 0.2                | NA                       | 0.20207          | 0.20230          | 2002.3               | 8.2                                | 97-63-2                                | N/A                         | 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 75mg/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 787mg/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) | 14002JX     | 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                                | N/A                         | N/A               |
| 16. 1,1,2-Trichlorotrifluoroethane  | (0474) | 18930       | NA   | NA                | NA                    | 2000                  | 99         | 0.2                | NA                       | 0.20207          | 0.20225          | 2001.8               | 8.2                                | 76-13-1                                | 1000 ppm (7600mg/m3/8H)     | 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 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                               | N/A                         | 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                               | N/A                         | or-rat 848mg/kg   |
| 20. trans-1,2-Dichloroethene        | 35171  | 101623      | 0.05 | 5.00              | 40002.4               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.6               | 23.0                               | 158-60-5                               | 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 820mg/kg   |
| 22. 1,1-Dichloroethane              | 32261  | 102023      | 0.10 | 10.00             | 20001.6               | 2000                  | NA         | NA                 | 0.042                    | NA               | NA               | 1999.7               | 20.4                               | 75-35-4                                | 1 ppm (4mg/m3/8H)           | 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 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                               | 75-34-3                                | 60 ppm (240mg/m3) (CL)      | or-rat 908mg/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                               | N/A                         | N/A               |
| 27. 1,1-Dichloroethane              | 95321  | 020724      | 0.10 | 10.00             | 20003.4               | 2000                  | NA         | NA                 | 0.042                    | NA               | NA               | 1999.8               | 20.5                               | 74-95-3                                | N/A                         | or-rat 108mg/kg   |
| 28. 2,2-Dichloropropane             | 95321  | 020724      | 0.10 | 10.00             | 20003.4               | 2000                  | NA         | NA                 | 0.042                    | NA               | NA               | 1999.8               | 20.4                               | 594-20-7                               | N/A                         | N/A               |
| 29. 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                               | N/A                         | or-rat 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                               | 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                               | 10081-01-5                             | N/A                         | N/A               |
| 38. trans-1,3-Dichloropropene       | 35161  | 112322      | 0.05 | 5.00              | 40017.6               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 2000.4               | 23.0                               | 10081-02-6                             | 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                               | 830-20-6                               | 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 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 2420mg/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               | 1999.8               | 22.9                               | 104-51-8                               | N/A                         | 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              | 40004.8               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.8               | 22.9                               | 99-87-6                                | N/A                         | 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              | 40006.2               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.7               | 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               | 1999.8               | 22.9                               | 108-88-3                               | 200 ppm                     | or-rat 5000mg/kg  |
| 52. Toluene                         | 35162  | 050823      | 0.05 | 5.00              | 40006.2               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.7               | 22.9                               | 87-81-6                                | N/A                         | 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               | 1999.7               | 22.9                               | 95-63-6                                | N/A                         | 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                               | N/A                         | 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               | 22.9                               | 109-38-3                               | 100 ppm (435mg/m3/8H)       | 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                               | 96-06-6                                | N/A                         | N/A               |
| 58. tert-Butyl benzene              | 35163  | 101923      | 0.05 | 5.00              | 40001.2               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.8               | 22.9                               | 135-98-8                               | N/A                         | or-rat 2240mg/kg  |
| 59. sec-Butyl benzene               | 35163  | 101923      | 0.05 | 5.00              | 40002.4               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.8               | 22.9                               | 108-90-7                               | 75 ppm (350mg/m3/8H)        | or-rat 2290mg/kg  |
| 60. Chlorobenzene                   | 35163  | 101923      | 0.05 | 5.00              | 40003.8               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.7               | 22.9                               | 95-49-8                                | 50 ppm (250mg/m3/8H)        | or-rat 3900mg/kg  |
| 61. 2-Chlorotoluene                 | 35163  | 101923      | 0.05 | 5.00              | 40003.3               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.7               | 22.9                               | 106-43-4                               | N/A                         | or-rat 2100mg/kg  |
| 62. 4-Chlorotoluene                 | 35163  | 101923      | 0.05 | 5.00              | 40003.3               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.7               | 22.9                               | 95-50-1                                | 50 ppm (300mg/m3) (CL)      | or-rat 500mg/kg   |
| 63. 1,2-Dichlorobenzene             | 35163  | 101923      | 0.05 | 5.00              | 40001.7               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.6               | 23.0                               | 541-73-1                               | N/A                         | or-mus 1060mg/kg  |
| 64. 1,3-Dichlorobenzene             | 35163  | 101923      | 0.05 | 5.00              | 40001.7               | 2000                  | NA         | NA                 | 0.017                    | NA               | NA               | 1999.6               | 22.9                               | 108-46                                 |                             |                   |



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-Dichloroethane                                | 14.07         |
| 9      | 1,1-Dichloroethane                                      | 15.74         |
| 10     | 2,2-Dichloropropane                                     | 17.74         |
| 11     | cis-1,2-Dichloroethane                                  | 18.00         |
| 12     | Hexamethylcyclotriphosphazene/Hexyl acrylate/Chloroform | 18.49         |
| 13     | Isobutanol/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     | Trichloroethane                                         | 23.88         |
| 18     | 1,2-Dichloropropane                                     | 24.52         |
| 19     | Methyl methacrylate                                     | 25.13         |
| 20     | Bromodichloromethane                                    | 25.46         |
| 21     | Dibromomethane/2,2-Dichloropropane                      | 27.07         |
| 22     | cis-1,2-Dichloroethane                                  | 28.03         |
| 23     | Toluene                                                 | 28.73         |
| 24     | Ethyl methacrylate/Trans-1,2-Dichloropropane            | 29.34         |
| 25     | 1,1,2-Trichloroethane                                   | 30.94         |
| 26     | Tetrachloroethane/1,2-Dichloropropane                   | 31.16         |
| 27     | Dibromochloromethane                                    | 32.84         |
| 28     | 1,2-Dibromomethane                                      | 33.26         |
| 29     | Chlorobenzene                                           | 33.85         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane                  | 35.33         |
| 31     | m-Xylene/p-Xylene                                       | 35.39         |
| 32     | o-Xylene                                                | 35.70         |
| 33     | Styrene                                                 | 36.48         |
| 34     | Isopropylbenzene/Bromofarm                              | 36.80         |
| 35     | cis-1,4-Dichloro-3-butene                               | 37.23         |
| 36     | 1,1,2,2-Tetrachloroethane                               | 37.27         |
| 37     | n-Propylbenzene                                         | 37.92         |
| 38     | trans-1,4-Dichloro-3-butene                             | 38.05         |
| 39     | Bromobenzene                                            | 38.14         |
| 40     | 1,3,5-Trimethylbenzene                                  | 38.50         |
| 41     | 2-Chlorobenzene                                         | 38.63         |
| 42     | 4-Chlorobenzene                                         | 38.77         |
| 43     | tert-Butylbenzene                                       | 39.76         |
| 44     | 1,2,4-Trimethylbenzene                                  | 39.91         |
| 45     | Perchloroethane                                         | 40.17         |
| 46     | sec-Butylbenzene                                        | 40.52         |
| 47     | p-Isopropylbenzene                                      | 41.02         |
| 48     | 1,3-Trichlorobenzene                                    | 41.42         |
| 49     | 1,4-Dichlorobenzene                                     | 41.83         |
| 50     | n-Butylbenzene                                          | 42.52         |
| 51     | 1,2-Dichlorobenzene                                     | 42.18         |
| 52     | 1,2-Dibromobenzene                                      | 46.12         |
| 53     | 1,2-Dibromo-3-chloropropane                             | 46.40         |
| 54     | Nitrobenzene                                            | 49.28         |
| 55     | 1,2,4-Trichlorobenzene                                  | 49.72         |
| 56     | Hexachlorocyclopentadiene                               | 50.56         |
| 57     | Naphthalene                                             | 51.16         |
| 58     | 1,2,3-Trichlorobenzene                                  |               |



## 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)) |                |                      |
| Methanol                                                | METHYL ALCOHOL | CAS#: 67-56-1        |
|                                                         |                | % (optional)<br>> 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 vial

ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
https://Absolutestandards.com

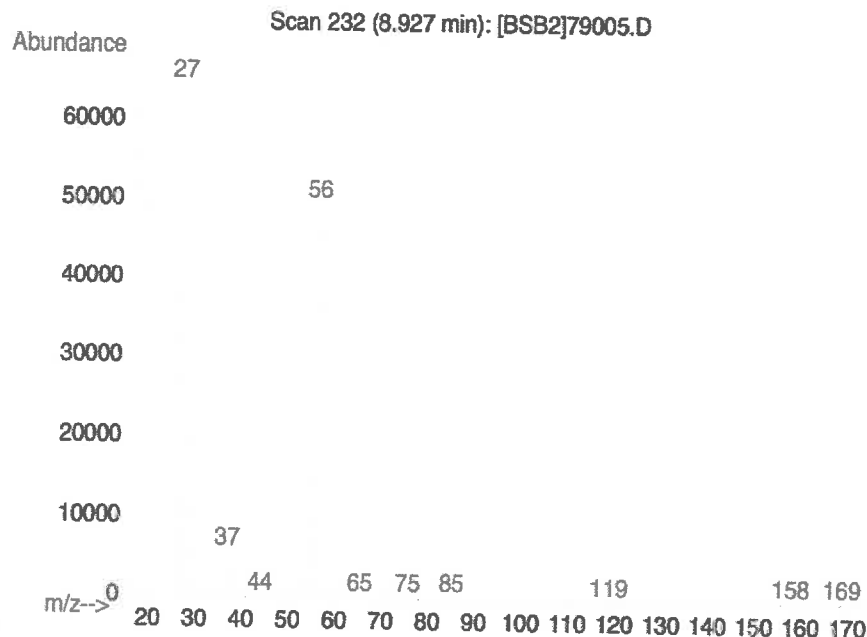
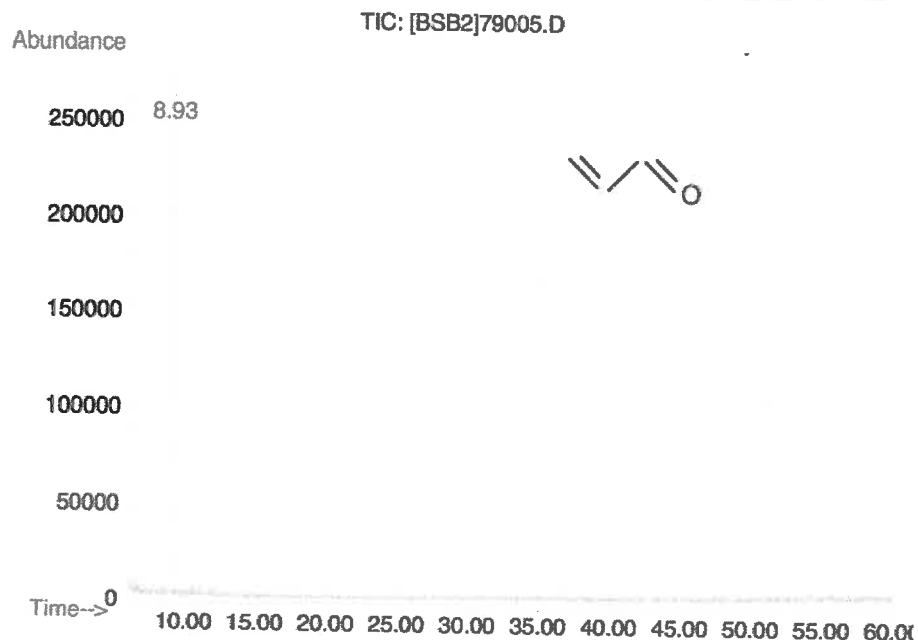
## CERTIFIED WEIGHT REPORT

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>         |             |
| Formulated By: Justin Dippold | 091424 DATE |
| <i>Pedro L. Rentas</i>        |             |
| Reviewed By: Pedro L. Rentas  | 091424 DATE |

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | 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 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

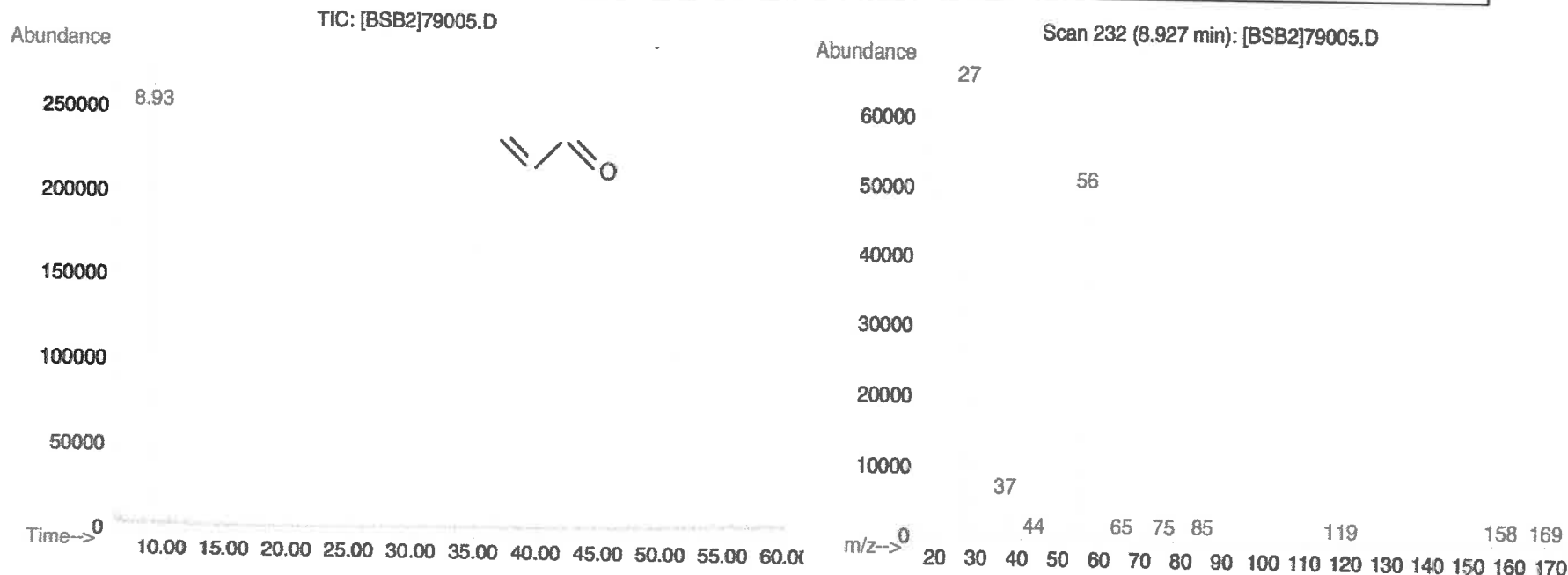
## CERTIFIED WEIGHT REPORT

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>         |             |
| Formulated By: Justin Dippold | 091424 DATE |
| <i>Pedro L. Rentas</i>        |             |
| Reviewed By: Pedro L. Rentas  | 091424 DATE |

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | 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 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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

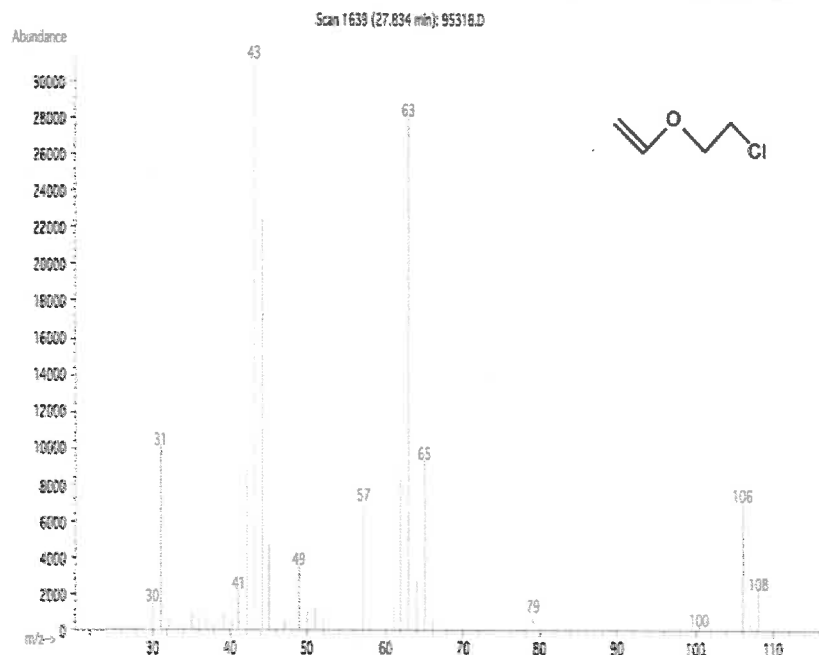
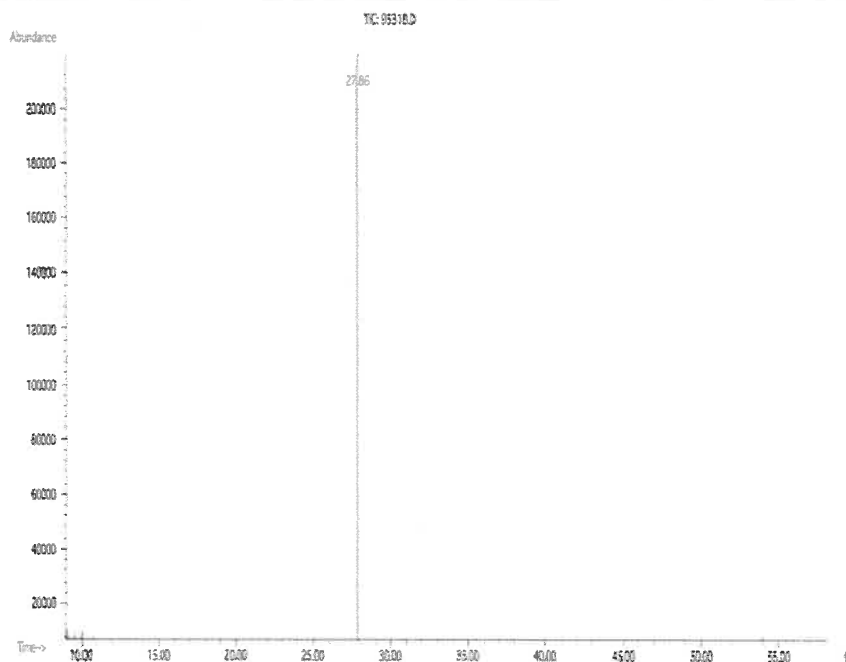
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

*Prashant Chauhan* 120524  
Formulated By: Prashant Chauhan DATE  
*Pedro L. Rentas* 120524  
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to  
✓ 14649

| Compound                     | RM# | Lot Number | Nominal<br>Conc (µg/mL) | Purity<br>(%) | Uncertainty<br>Purity | Target<br>Weight (g) | Actual<br>Weight (g) | Actual<br>Conc (µg/mL) | Expanded<br>Uncertainty<br>(+/-) (µg/mL) | SDS Information<br>(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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

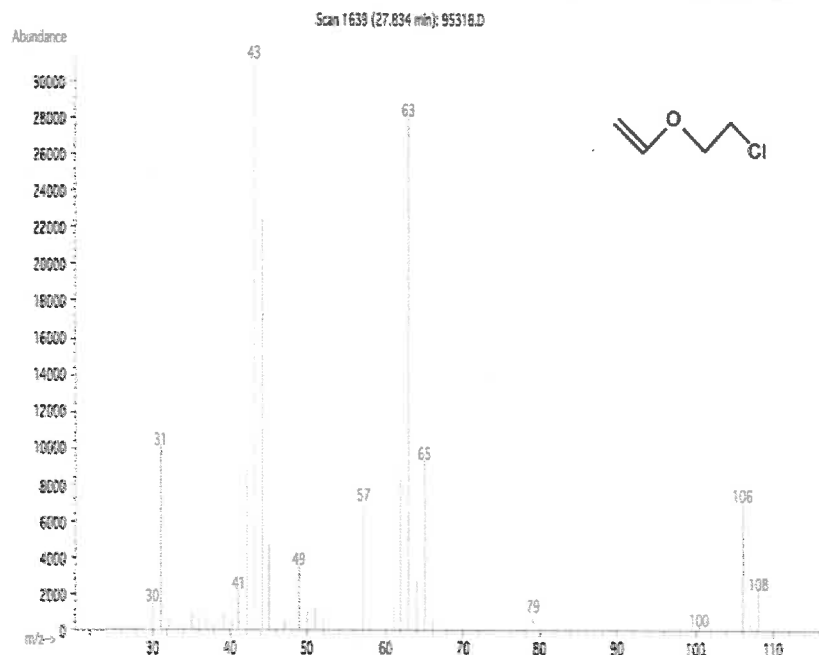
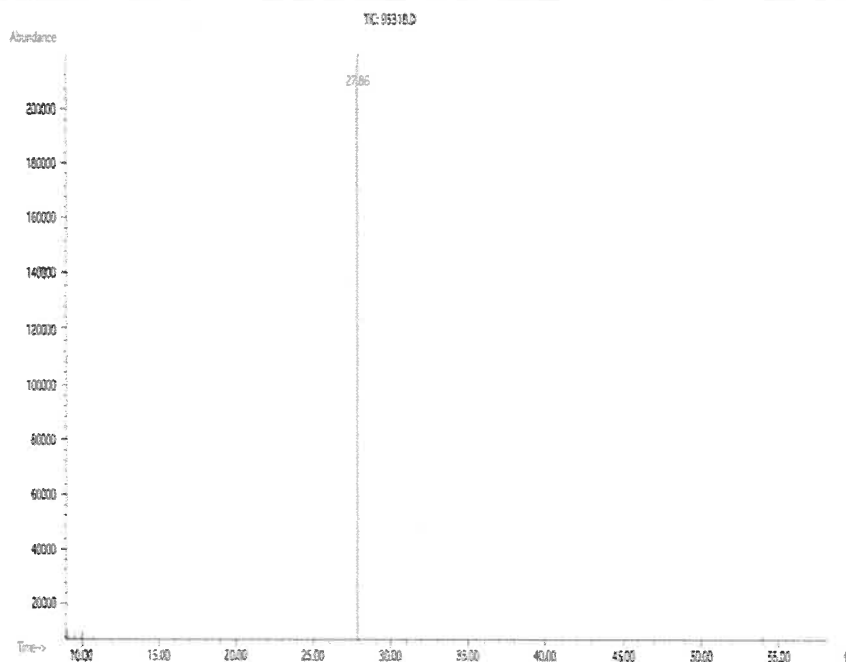
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

*Prashant Chauhan* 120524  
Formulated By: Prashant Chauhan DATE  
*Pedro L. Rentas* 120524  
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to  
✓ 14649

| Compound                     | RM# | Lot Number | Nominal<br>Conc (µg/mL) | Purity<br>(%) | Uncertainty<br>Purity | Target<br>Weight (g) | Actual<br>Weight (g) | Actual<br>Conc (µg/mL) | Expanded<br>Uncertainty<br>(+/-) (µg/mL) | SDS Information<br>(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         |
|                                                         | CAS#: 67-56-1  |              |

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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

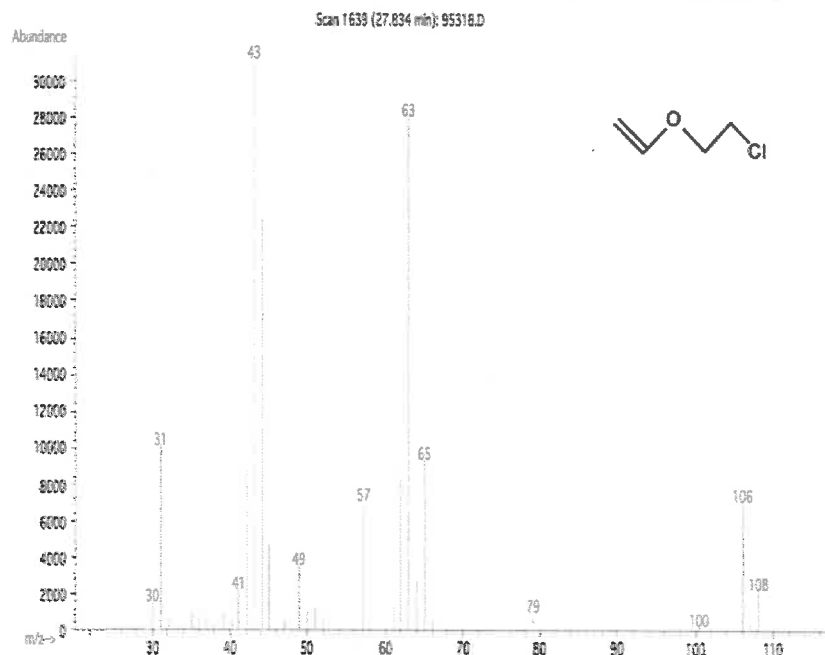
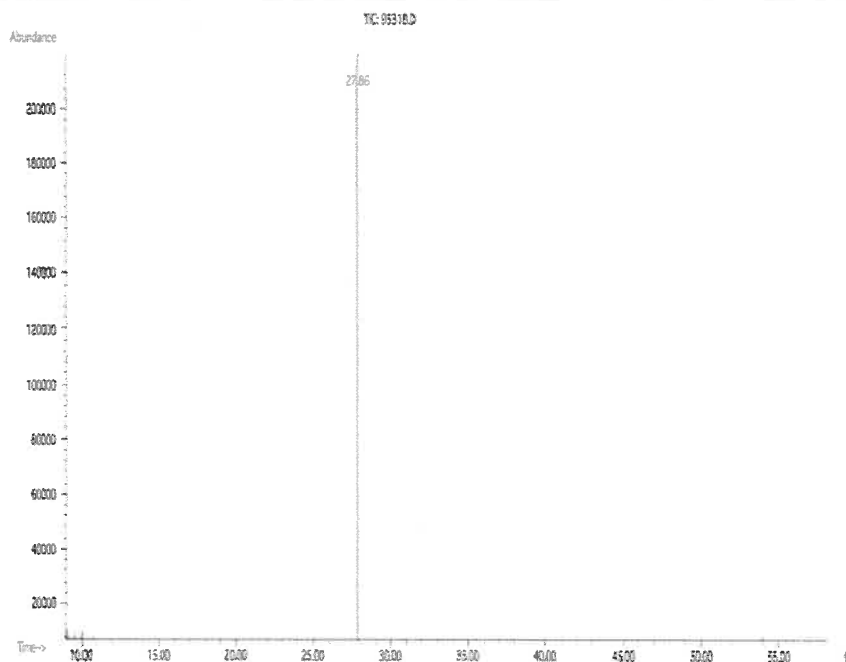
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

*Prashant Chauhan* 120524  
Formulated By: Prashant Chauhan DATE  
*Pedro L. Rentas* 120524  
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to  
✓ 14649

| Compound                     | RM# | Lot Number | Nominal<br>Conc (µg/mL) | Purity<br>(%) | Uncertainty<br>Purity | Target<br>Weight (g) | Actual<br>Weight (g) | Actual<br>Conc (µg/mL) | Expanded<br>Uncertainty<br>(+/-) (µg/mL) | SDS Information<br>(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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

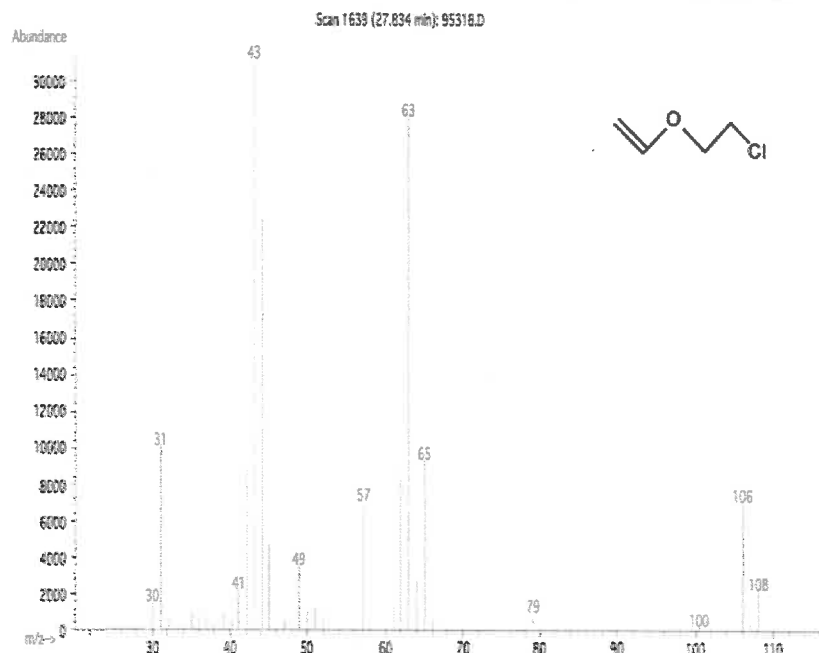
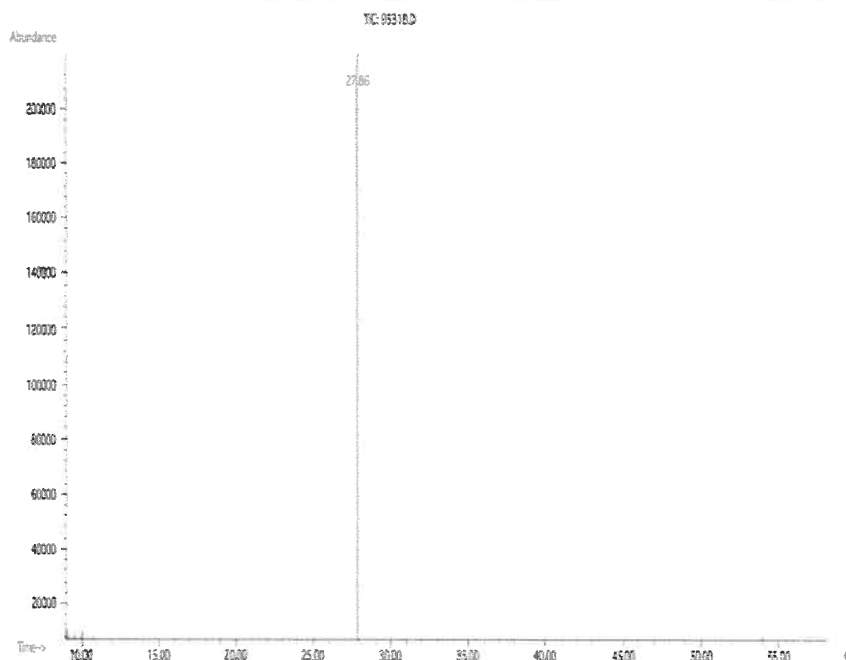
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

*Prashant Chauhan* 120524  
Formulated By: Prashant Chauhan DATE  
*Pedro L. Rentas* 120524  
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to  
✓ 14649

| Compound                     | RM# | Lot Number | Nominal<br>Conc (µg/mL) | Purity<br>(%) | Uncertainty<br>Purity | Target<br>Weight (g) | Actual<br>Weight (g) | Actual<br>Conc (µg/mL) | Expanded<br>Uncertainty<br>(+/-) (µg/mL) | SDS Information<br>(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.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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:**

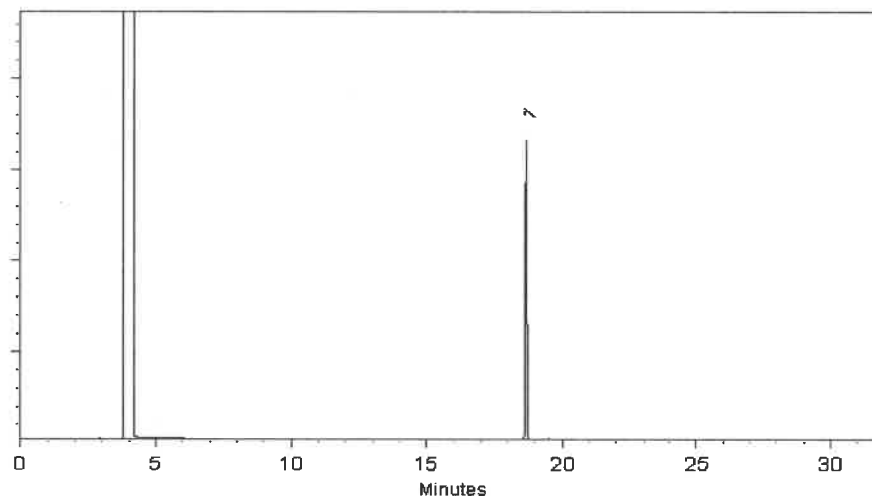
FID

**Split Vent:**

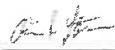
40 ml/min

**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. :** 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.)

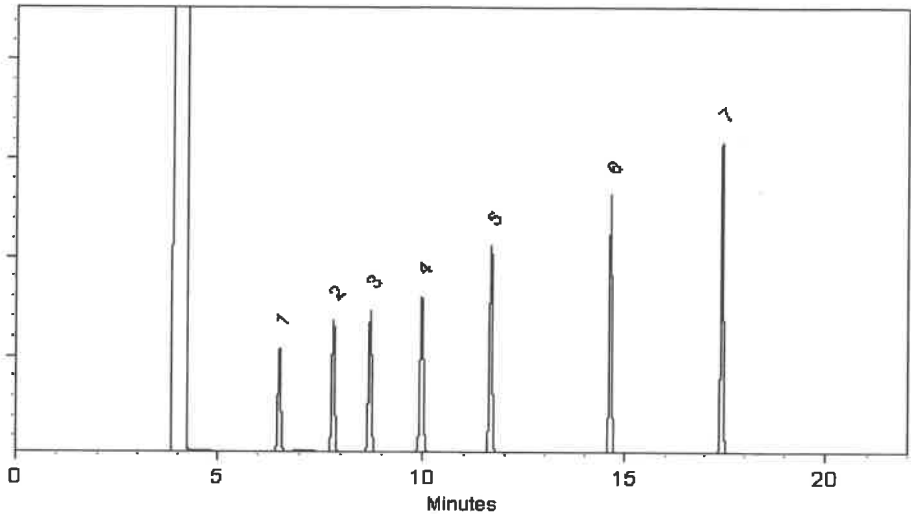
**Inj. Temp:**  
200°C

**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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## 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.)

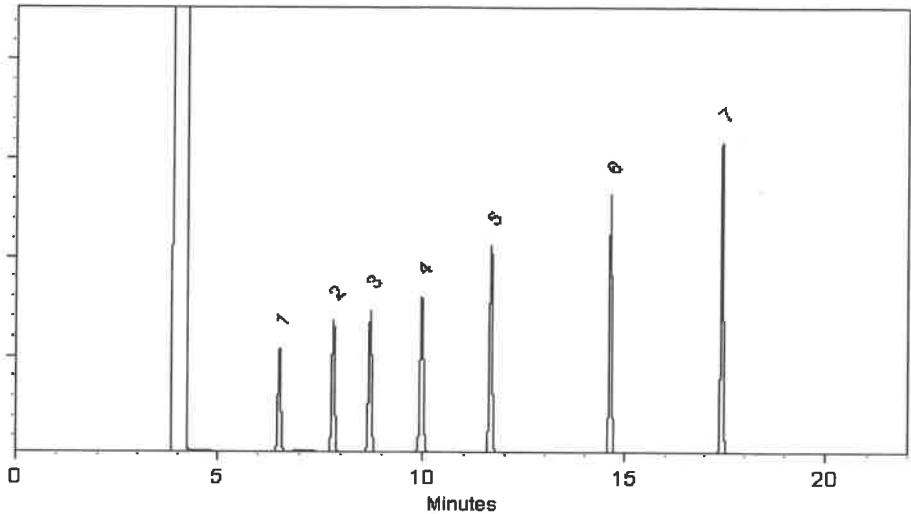
**Inj. Temp:**  
200°C

**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

*Dylan Murphy*  
Dylan 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:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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Dec 12/17/24  
30 v. 4  
CERTIFIED REFERENCE MATERIAL

**Certificate of Analysis**  
*chromatographic plus*  
V14697-to-14726



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618  
**Description :** VOA Calibration Mix #1  
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

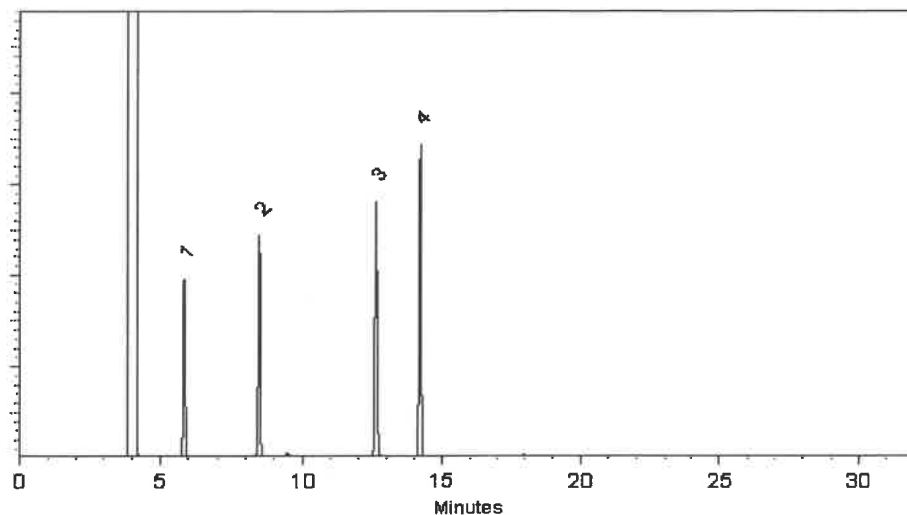
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

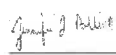


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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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30 v. 4  
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*chromatographic plus*  
V14697-to-14726



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618  
**Description :** VOA Calibration Mix #1  
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%



## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

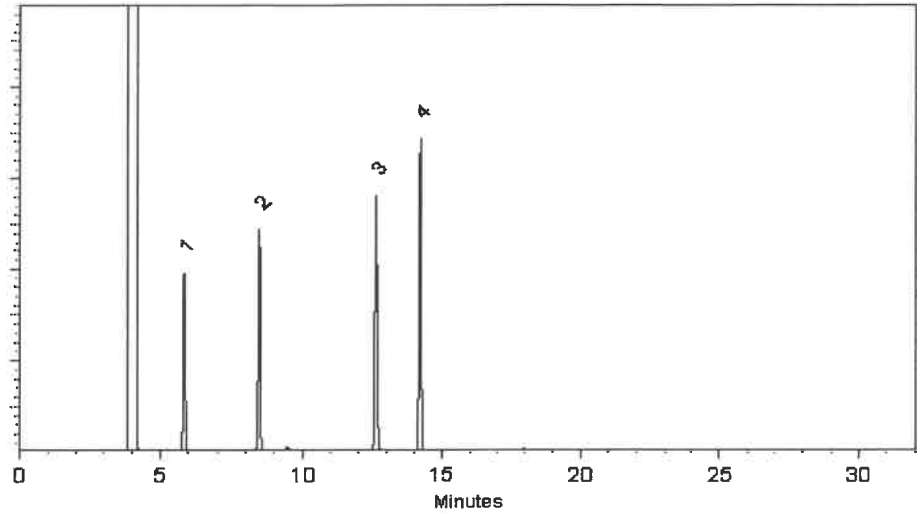
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

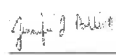


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  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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Dec 12/17/24  
30 v. 4  
CERTIFIED REFERENCE MATERIAL

**Certificate of Analysis**  
*chromatographic plus*  
V14697-to-14726



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618  
**Description :** VOA Calibration Mix #1  
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Acetone                     | 67-64-1  | SHBQ8504 | 99%    | 5,014.8 µg/mL               | +/- 173.2883                           |
| 2             | 2-Butanone (MEK)            | 78-93-3  | SHBQ4704 | 99%    | 5,012.4 µg/mL               | +/- 173.2054                           |
| 3             | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99%    | 5,011.6 µg/mL               | +/- 173.1777                           |
| 4             | 2-Hexanone                  | 591-78-6 | MKCQ6663 | 99%    | 5,013.0 µg/mL               | +/- 173.2261                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

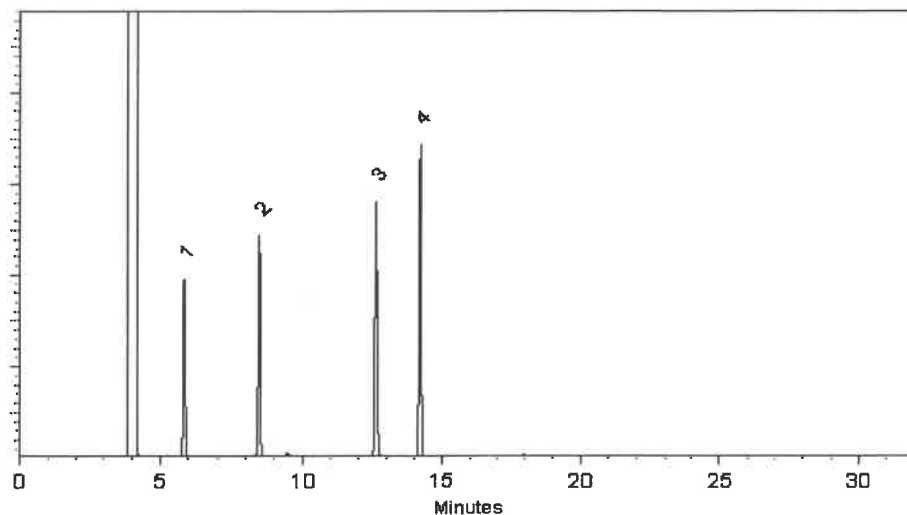
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

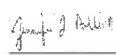


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826  
**Description :** 502.2 Calibration Mix #1  
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                         | CAS #   | Lot #           | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|-----------------------------|----------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922        | 99%    | 2,000.9 µg/mL               | +/- 112.4144                           |
| 2             | Chloromethane (methyl chloride)  | 74-87-3 | 00022694        | 99%    | 2,000.7 µg/mL               | +/- 112.3998                           |
| 3             | Vinyl chloride                   | 75-01-4 | 00015559        | 99%    | 2,000.3 µg/mL               | +/- 112.3779                           |
| 4             | Bromomethane (methyl bromide)    | 74-83-9 | 00017022        | 99%    | 2,001.8 µg/mL               | +/- 112.4650                           |
| 5             | Chloroethane (ethyl chloride)    | 75-00-3 | 107-401039114-1 | 99%    | 2,000.1 µg/mL               | +/- 112.3700                           |
| 6             | Trichlorofluoromethane (CFC-11)  | 75-69-4 | MKCJ8658        | 99%    | 2,000.7 µg/mL               | +/- 112.3992                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

helium-constant flow 2.0 mL/min.

**Temp. Program:**

40°C (hold 6 min.) to 100°C  
@ 6°C/min.

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

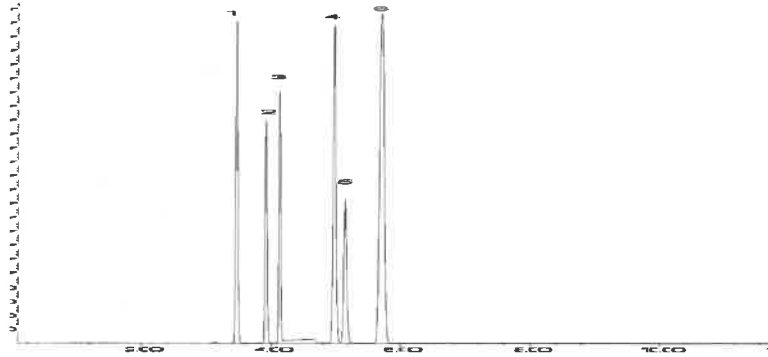
MSD

**Split Vent:**

Split ratio 10:1

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom 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.

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- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826  
**Description :** 502.2 Calibration Mix #1  
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder  
**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                         | CAS #   | Lot #           | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|-----------------------------|----------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922        | 99%    | 2,000.9 µg/mL               | +/- 112.4144                           |
| 2             | Chloromethane (methyl chloride)  | 74-87-3 | 00022694        | 99%    | 2,000.7 µg/mL               | +/- 112.3998                           |
| 3             | Vinyl chloride                   | 75-01-4 | 00015559        | 99%    | 2,000.3 µg/mL               | +/- 112.3779                           |
| 4             | Bromomethane (methyl bromide)    | 74-83-9 | 00017022        | 99%    | 2,001.8 µg/mL               | +/- 112.4650                           |
| 5             | Chloroethane (ethyl chloride)    | 75-00-3 | 107-401039114-1 | 99%    | 2,000.1 µg/mL               | +/- 112.3700                           |
| 6             | Trichlorofluoromethane (CFC-11)  | 75-69-4 | MKCJ8658        | 99%    | 2,000.7 µg/mL               | +/- 112.3992                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

helium-constant flow 2.0 mL/min.

**Temp. Program:**

40°C (hold 6 min.) to 100°C  
@ 6°C/min.

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

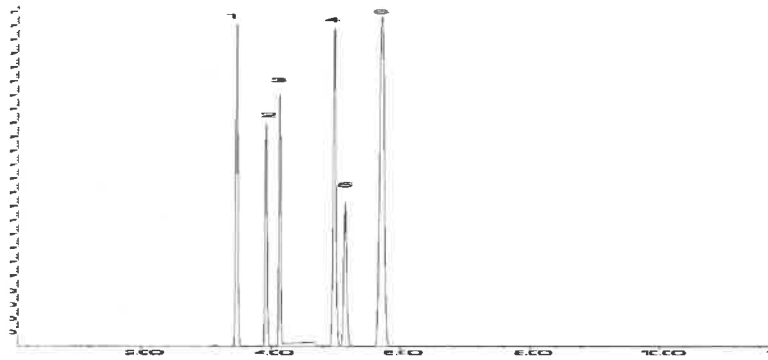
MSD

**Split Vent:**

Split ratio 10:1

**Inj. Vol**

1µl



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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:

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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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## 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:**

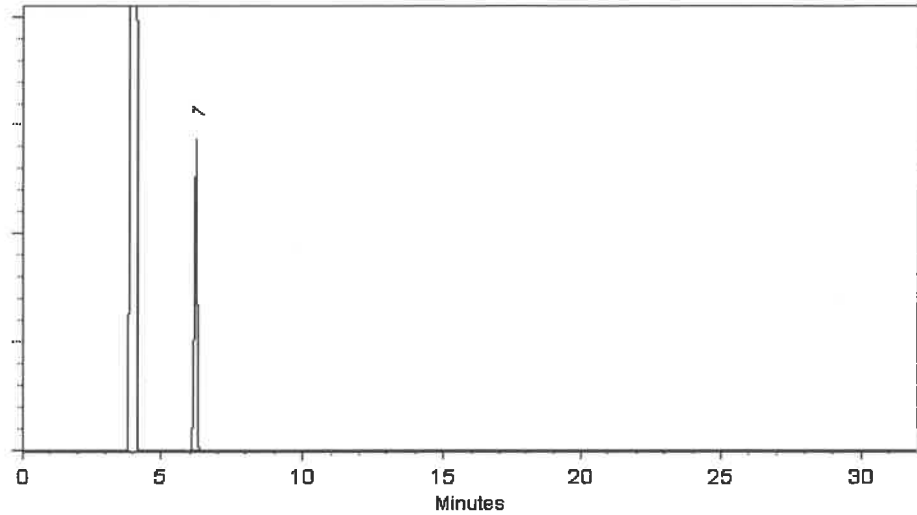
FID

**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.

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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

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110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

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:**

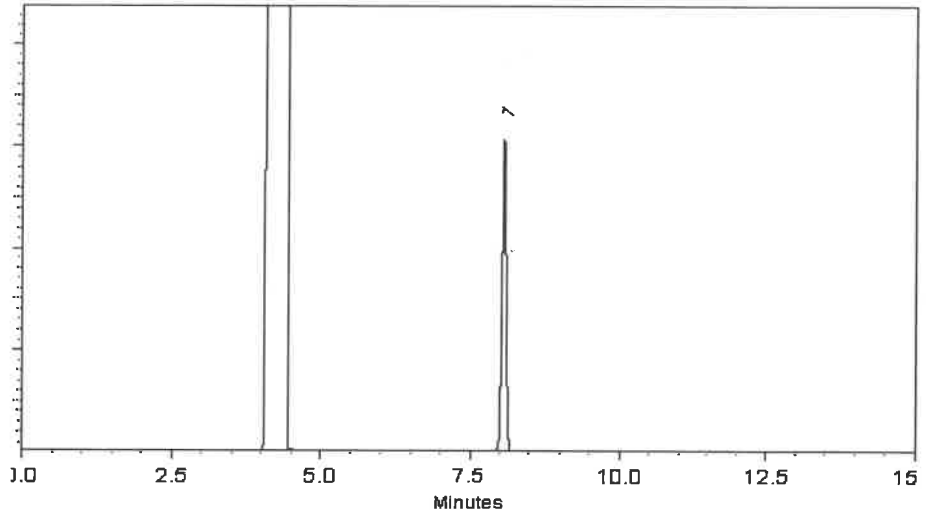
FID

**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 Padden 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/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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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:**

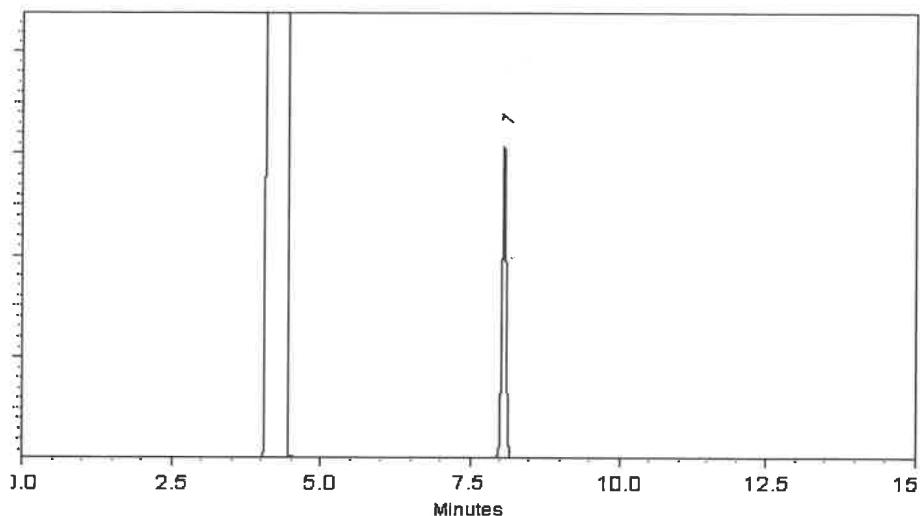
FID

**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/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

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]

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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



Certified Reference Material CRM

Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 091525  
Description: Acrolein

Solvent(s):  
Water  
Lot#: 041725Q

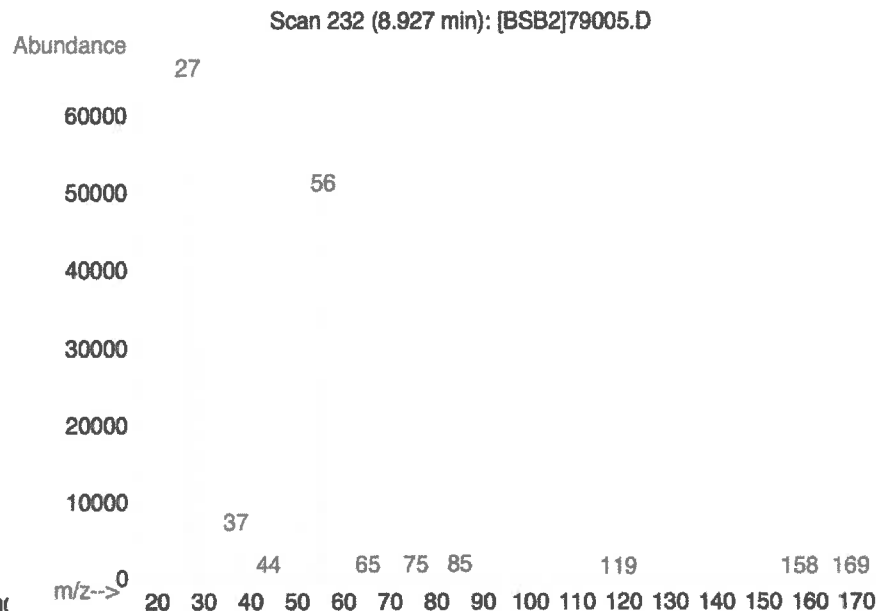
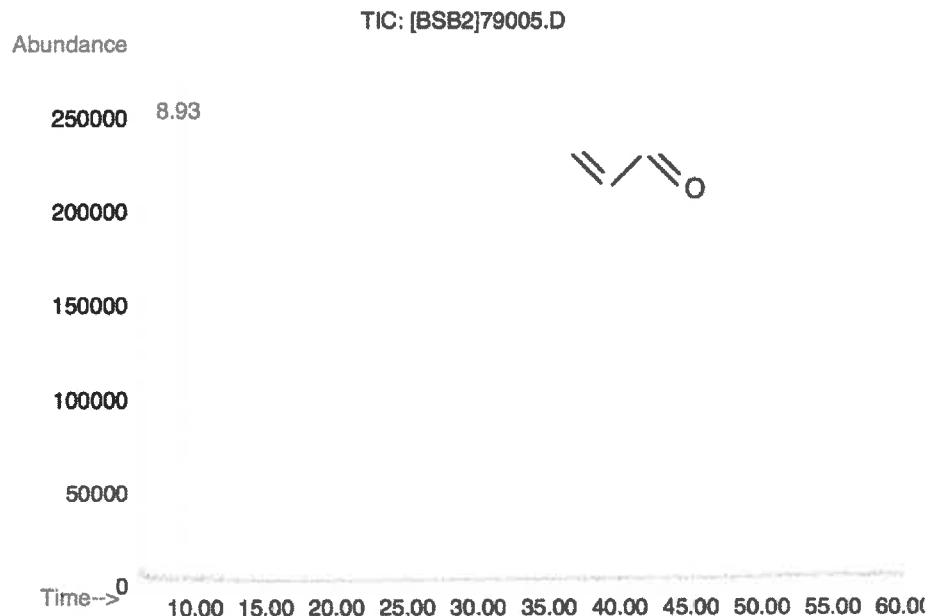
|                                |      |
|--------------------------------|------|
| 091525                         |      |
| Formulated By: Anthony Mahoney | DATE |
| 091525                         |      |
| Reviewed By: Pedro L. Rentas   | DATE |

V15064 to  
V15068

Expiration Date: 101525  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB  
Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

| 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                | 0.05186          | 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 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 091525  
Description: Acrolein

Solvent(s):  
Water  
Lot#: 041725Q

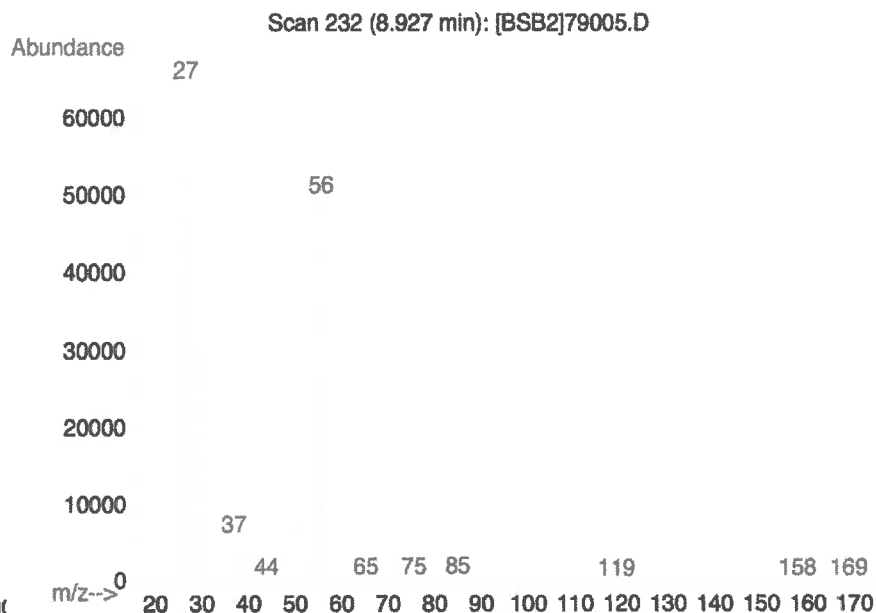
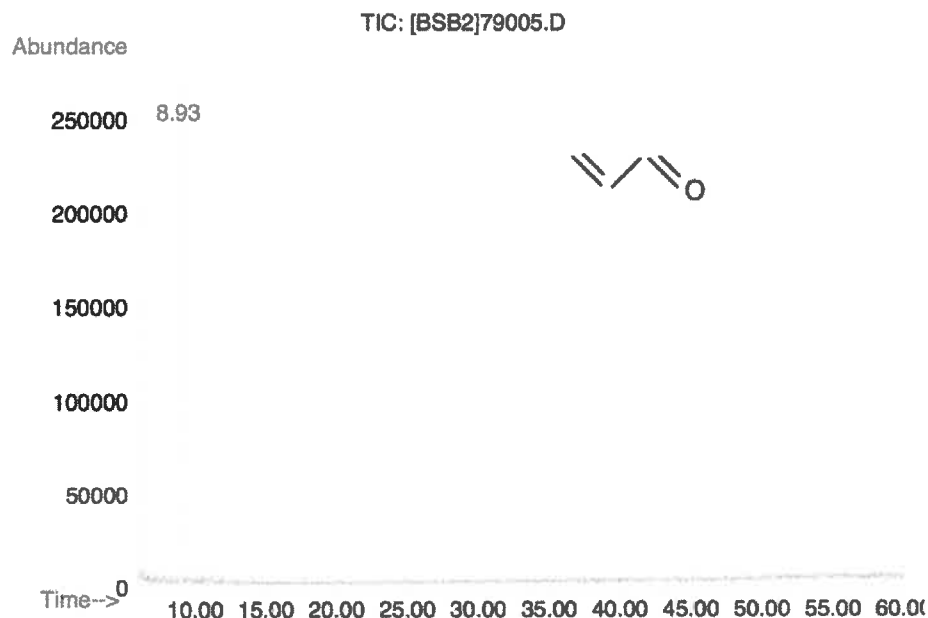
|                                |      |
|--------------------------------|------|
| 091525                         |      |
| Formulated By: Anthony Mahoney | DATE |
| 091525                         |      |
| Reviewed By: Pedro L. Rentas   | DATE |

V15064 to  
V15068

Expiration Date: 101525  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB  
Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

| 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                | 0.05186          | 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.



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- Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 091525  
Description: Acrolein

Solvent(s):  
Water  
Lot#: 041725Q

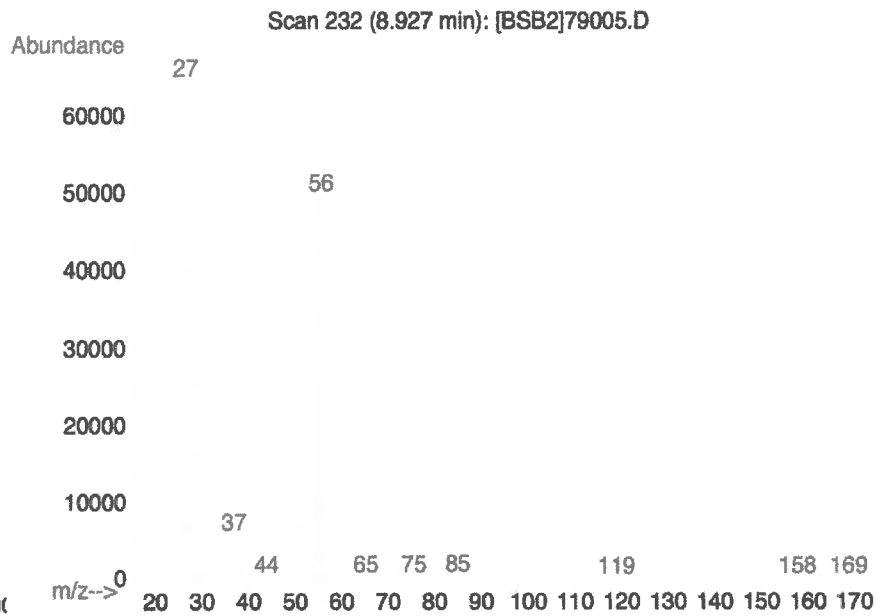
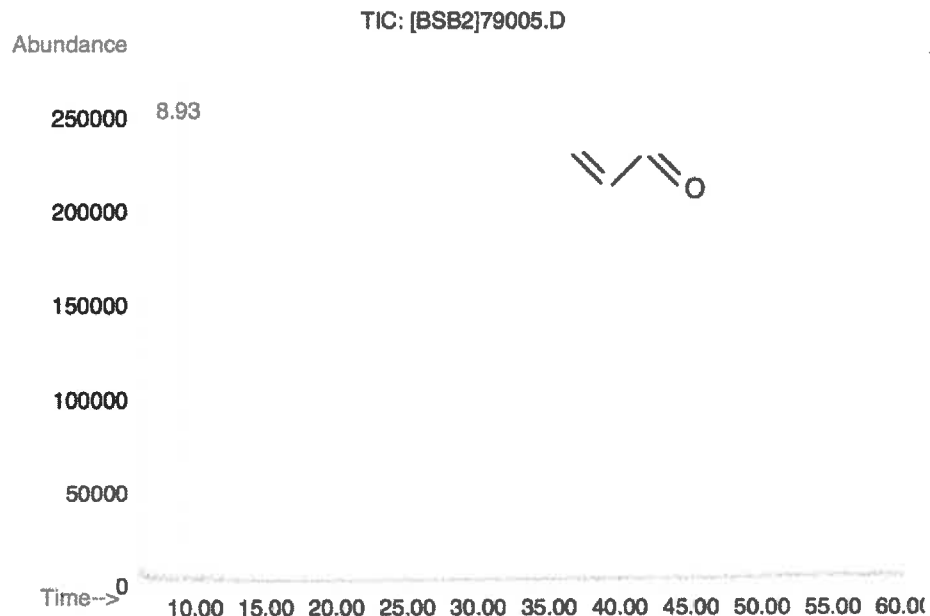
|                                |      |
|--------------------------------|------|
| 091525                         |      |
| Formulated By: Anthony Mahoney | DATE |
| 091525                         |      |
| Reviewed By: Pedro L. Rentas   | DATE |

V15064 to  
V15068

Expiration Date: 101525  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB  
Weight(s) shown below were combined and diluted to (mL): 10.0  
5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

| 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.



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- Rev 1.0, 2/25/2025



# SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Packing List

6390 Joyce Dr., #100  
Golden, CO 80403

Tel: +1-303-940-0033  
Fax: +1-303-940-0043  
info@phenova.com  
www.phenova.com

For terms and conditions of your order, please visit:  
www.phenova.com/home/termsandsale

| Date       | Order # |
|------------|---------|
| 09/02/2025 | 333290  |



## Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

Received by: *ST* 9/4/2025  
9:25

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| PO2-3159      | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number  | Part Description                         | Study Number | Lot Number |
|-------------|-------------|---------------|--------------|------------------------------------------|--------------|------------|
|             |             |               | PT-TMSET-WP  | WP Trace Metals Set : (TM1, HG and SNTI) |              |            |
| 1           | 1           | 0             | PT-TM1-WP    | WP Trace Metals 1                        | WP0925       | 8270-04    |
| 1           | 1           | 0             | PT-HG-WP     | WP Mercury                               | WP0925       | 8270-05    |
| 1           | 1           | 0             | PT-SNTI-WP   | WP Tin & Titanium                        | WP0925       | 8270-38    |
| 1           | 1           | 0             | PT-CR6-WP    | WP Hexavalent Chromium                   | WP0925       | 8270-06    |
| 1           | 1           | 0             | PT-DEM-WP    | WP Demand                                | WP0925       | 8270-07    |
|             |             |               | PT-MINSET-WP | WP Minerals Set : (MIN1, MIN2 and COND)  |              |            |
| 1           | 1           | 0             | PT-MIN1-WP   | WP Minerals 1 Only                       | WP0925       | 8270-08    |
| 1           | 1           | 0             | PT-MIN2-WP   | WP Minerals 2 Only                       | WP0925       | 8270-102   |
| 1           | 1           | 0             | PT-COND-WP   | WP Conductivity Only                     | WP0925       | 8270-72    |
| 1           | 1           | 0             | PT-COND-WP   | WP Conductivity Only                     | WP0925       | 8270-72    |
| 1           | 1           | 0             | PT-SOL-WP    | WP Solids                                | WP0925       | 8270-09    |
|             |             |               | PT-NUTSET-WP | WP Nutrients Set : (NUT1, NUT2 and NUT3) |              |            |
| 1           | 1           | 0             | PT-NUT1-WP   | WP NUT1 Simple Nutrients Only            | WP0925       | 8270-10    |
| 1           | 1           | 0             | PT-NUT2-WP   | WP NUT2 - Complex Nutrients              | WP0925       | 8270-11    |
| 1           | 1           | 0             | PT-NUT3-WP   | WP NUT3 - Nitrite Only                   | WP0925       | 8270-69    |
| 1           | 1           | 0             | PT-OGR1L-WP  | WP Oil and Grease 1L                     | WP0925       | 8270-103   |
| 1           | 1           | 0             | PT-CL-WP     | WP Residual Chlorine                     | WP0925       | 8270-13    |
| 1           | 1           | 0             | PT-PH-WP     | WP pH                                    | WP0925       | 8270-15    |
| 1           | 1           | 0             | PT-CN-WP     | WP Cyanide                               | WP0925       | 8270-14    |



6390 Joyce Dr., #100  
Golden, CO 80403

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Fax: +1-303-940-0043  
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| Date       | Order # |
|------------|---------|
| 09/02/2025 | 333290  |



## Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

*Received by: SJ*  
*9/4/2025*  
*9:25*

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| PO2-3159      | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number | Part Description           | Study Number | Lot Number |
|-------------|-------------|---------------|-------------|----------------------------|--------------|------------|
| 1           | 1           | 0             | PT-PHEN-WP  | WP Phenolics               | WP0925       | 8270-16    |
| 1           | 1           | 0             | PT-S2-WP    | WP Sulfide                 | WP0925       | 8270-22    |
| 1           | 1           | 0             | PT-SSOL-WP  | WP Settleable Solids       | WP0925       | 8270-17    |
| 1           | 1           | 0             | PT-VSOL-WP  | WP Volatile Solids         | WP0925       | 8270-18    |
| 1           | 1           | 0             | PT-TURB-WP  | WP Turbidity               | WP0925       | 8270-20    |
| 1           | 1           | 0             | PT-SIO2-WP  | WP Silica                  | WP0925       | 8270-21    |
| 1           | 1           | 0             | PT-COL-WP   | WP Color                   | WP0925       | 8270-51    |
| 1           | 1           | 0             | PT-VOA-WP   | WP Volatiles               | WP0925       | 8270-26    |
| 1           | 1           | 0             | PT-BN-WP    | WP Base Neutrals           | WP0925       | 8270-27    |
| 1           | 1           | 0             | PT-ACIDS-WP | WP Acids                   | WP0925       | 8270-28    |
| 1           | 1           | 0             | PT-PEST-WP  | WP Pesticides              | WP0925       | 8270-29    |
| 1           | 1           | 0             | PT-CHLR-WP  | WP Chlordane               | WP0925       | 8270-30    |
| 1           | 1           | 0             | PT-TXP-WP   | WP Toxaphene               | WP0925       | 8270-31    |
| 1           | 1           | 0             | PT-PCBW-WP  | WP PCBs in Water           | WP0925       | 8270-32    |
| 1           | 1           | 0             | PT-HERB-WP  | WP Herbicides              | WP0925       | 8270-36    |
| 1           | 1           | 0             | RR-TPH1L-WP | WP TPH 1L                  | R41815       | R41815-104 |
| 1           | 1           | 0             | RR-PAH-WP   | WP PAH-Low Level           | R41815       | R41815-37  |
| 1           | 1           | 0             | RR-GAS-WP   | WP Gasoline Range Organics | R41815       | R41815-62  |
| 1           | 1           | 0             | RR-DIES-WP  | WP Diesel Range Organics   | R41815       | R41815-63  |
| 1           | 1           | 0             | RR-8011-WP  | WP EDB/DBCP/TCP            | R41815       | R41815-98  |

## Packing List

6390 Joyce Dr., #100  
Golden, CO 80403

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| Date       | Order # |
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| 09/05/2025 | 340092  |



### Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

*Received by: SJ*

*9/9/2025 12:20*

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| PO2-3159      | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number    | Part Description       | Study Number | Lot Number |
|-------------|-------------|---------------|----------------|------------------------|--------------|------------|
| 1           | 1           | 0             | RR-TRIAZINE-WP | WP Triazine Pesticides | R41854       | R41854-108 |



### 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           |