

## Cover Page

**Order ID :** Q3483

**Project ID :** NJ Soil PT

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

### Lab Sample Number

Q3483-01  
Q3483-02  
Q3483-03  
Q3483-04  
Q3483-05  
Q3483-06  
Q3483-07  
Q3483-08  
Q3483-09  
Q3483-10  
Q3483-11  
Q3483-12  
Q3483-13  
Q3483-14  
Q3483-15  
Q3483-16  
Q3483-17  
Q3483-18  
Q3483-19  
Q3483-20  
Q3483-21  
Q3483-22  
Q3483-23  
Q3483-24  
Q3483-25

### Client Sample Number

HW1025-PT-AN-SOIL  
HW1025-PT-CORR-SOIL  
HW1025-PT-CN-SOIL  
HW1025-PT-CN-SOIL  
HW1025-PT-FP-SOIL  
HW1025-PT-CR6-SOIL  
HW1025-PT-NUT-SOIL  
HW1025-PT-NUT-SOIL  
HW1025-PT-OGR-SOIL  
HW1025-PT-MET-SOIL  
HW1025-PT-BNA-SOIL  
HW1025-PT-TRIAZINE-SOIL  
HW1025-PT-PAH-SOIL  
HW1025-PT-DIES-SOIL  
HW1025-PT-GAS-SOIL  
HW1025-PT-NJEPH-SOIL  
HW1025-PT-HERB-SOIL  
HW1025-PT-PCB-SOIL  
HW1025-PT-PCBO-SOIL  
HW1025-PT-PEST-SOIL  
HW1025-PT-CHLOR-SOIL  
HW1025-PT-TXP-SOIL  
HW1025-PT-VOA-SOIL  
HW1025-PT-SOL-SOIL  
HW1025-PT-NO2-SOIL

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

Signature : \_\_\_\_\_

Date: 11/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Alliance Technical Group, LLC - Newark**

**Project Name: NJ Soil PT**

**Project # N/A**

**Order ID # Q3483**

**Test Name: VOCMS Group1**

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

1 Solid sample was received on 10/29/2025.

### **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\_Y 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 8260D.

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

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike for {VY1106SBS01} with File ID: VY023694.D met requirements for all compounds except for Tetrahydrofuran[110%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VY1106SBSD01} with File ID: VY023695.D met requirements for all compounds except for Tetrahydrofuran[110%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82Y110425S.M) for Naphthalene passing on Linear regression.

The Continuous Calibration File ID VY023692.D met the requirements except for Acrolein.

The Tuning criteria met requirements.



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

Sample HW1025-PT-VOA-SOIL was diluted due to high concentration.

**E. Additional Comments:**

**F. Manual Integration Comments:**

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

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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

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

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                 |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| J     | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                        |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                  |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



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

ORDER ID: Q3483

MATRIX: Solid

METHOD: 8260D

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA | NO | YES |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1.  | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    | ✓   |
| 2.  | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY<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 %RSD is greater than 20% in the Initial Calibration method (82Y110425S.M) for<br>Naphthalene passing on Linear regression.<br>The Continuous Calibration File ID VY023692.D met the requirements except for<br>Acrolein.                                                                                                                                                                                                                                                                                                                                                                                                  |    | ✓  |     |
| 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 for {VY1106SBS01} with File ID: VY023694.D met requirements<br>for all compounds except for Tetrahydrofuran[110%] is failing high but no positive hit<br>in associate sample therefore no corrective action taken.<br>The Blank Spike Duplicate for {VY1106SBSD01} with File ID: VY023695.D met<br>requirements for all compounds except for Tetrahydrofuran[110%] is failing high but<br>no positive hit in associate sample therefore no corrective action taken. |    | ✓  |     |
| 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    | ✓   |

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

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

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

NA NO YES

ADDITIONAL COMMENTS:

Sample HW1025-PT-VOA-SOIL was diluted due to high concentration.

\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3483

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

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

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/11/2025

## LAB CHRONICLE

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| <b>OrderID:</b> Q3483                                 | <b>OrderDate:</b> 10/29/2025 2:32:00 PM |
| <b>Client:</b> Alliance Technical Group, LLC - Newark | <b>Project:</b> NJ Soil 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 |
|------------|--------------------|--------|--------------|--------|-------------|-----------|-----------|----------|
| Q3483-23   | HW1025-PT-VOA-SOIL | SOIL   |              |        | 10/27/25    |           |           | 10/29/25 |
|            | L                  |        | VOCMS Group1 | 8260D  |             |           | 11/06/25  |          |
| Q3483-23DL | HW1025-PT-VOA-SOIL | SOIL   |              |        | 10/27/25    |           |           | 10/29/25 |
|            | LDL                |        | VOCMS Group1 | 8260D  |             |           | 11/06/25  |          |

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

**SDG No.:** Q3483

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

| Sample ID                   | Client ID                 | Matrix | Parameter                 | Concentration | C | MDL  | RDL  | Units |
|-----------------------------|---------------------------|--------|---------------------------|---------------|---|------|------|-------|
| <b>Client ID:</b>           | <b>HW1025-PT-VOA-SOIL</b> |        |                           |               |   |      |      |       |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,1-Dichloroethene        | 100           |   | 1.00 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Acetone                   | 320           |   | 4.70 | 25.0 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Methyl tert-butyl Ether   | 82.6          |   | 0.73 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | trans-1,2-Dichloroethene  | 63.4          |   | 0.86 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 2-Butanone                | 130           |   | 6.50 | 25.0 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Carbon Tetrachloride      | 65.7          |   | 0.97 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | cis-1,2-Dichloroethene    | 58.0          |   | 0.75 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Chloroform                | 61.6          |   | 0.84 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Benzene                   | 95.4          |   | 0.79 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,2-Dichloroethane        | 190           | E | 0.79 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Trichloroethene           | 120           |   | 0.81 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | t-1,3-Dichloropropene     | 160           | E | 0.65 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | cis-1,3-Dichloropropene   | 180           | E | 0.62 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 2-Hexanone                | 350           |   | 3.70 | 25.0 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,2-Dibromoethane         | 27.1          |   | 0.88 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Tetrachloroethene         | 71.2          |   | 1.10 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Chlorobenzene             | 22.9          |   | 0.91 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,1,1,2-Tetrachloroethane | 65.5          |   | 0.77 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Ethyl Benzene             | 22.9          |   | 0.67 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Total Xylenes             | 390           |   | 2.02 | 15.0 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | m/p-Xylenes               | 190           |   | 1.20 | 10.0 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | o-Xylene                  | 200           | E | 0.82 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Styrene                   | 110           |   | 0.71 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Bromoform                 | 110           |   | 0.86 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,1,2,2-Tetrachloroethane | 160           | E | 1.20 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,2,3-Trichloropropane    | 140           |   | 1.20 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 2-Chlorotoluene           | 90.9          |   | 0.68 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | tert-Butylbenzene         | 140           |   | 0.67 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,2,4-Trimethylbenzene    | 200           | E | 0.64 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | p-Isopropyltoluene        | 200           | E | 0.62 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,3-Dichlorobenzene       | 53.8          |   | 1.70 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,4-Dichlorobenzene       | 81.5          |   | 1.60 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | 1,2,4-Trichlorobenzene    | 160           | E | 3.00 | 5.00 | ug/Kg |
| Q3483-23                    | HW1025-PT-VOA- SOIL       |        | Naphthalene               | 60.8          |   | 2.60 | 5.00 | ug/Kg |
| <b>Total Voc :</b>          |                           |        |                           | <b>4080</b>   |   |      |      |       |
| <b>Total Concentration:</b> |                           |        |                           | <b>4080</b>   |   |      |      |       |

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

**SDG No.:** Q3483

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

| Sample ID                   | Client ID                   | Matrix | Parameter                 | Concentration | C | MDL  | RDL  | Units |
|-----------------------------|-----------------------------|--------|---------------------------|---------------|---|------|------|-------|
| <b>Client ID:</b>           | <b>HW1025-PT-VOA-SOILDL</b> |        |                           |               |   |      |      |       |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,1-Dichloroethene        | 96.9          | D | 4.00 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Acetone                   | 330           | D | 19.0 | 100  | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Methyl tert-butyl Ether   | 78.1          | D | 2.90 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | trans-1,2-Dichloroethene  | 62.1          | D | 3.40 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 2-Butanone                | 130           | D | 26.2 | 100  | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Carbon Tetrachloride      | 62.9          | D | 3.90 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | cis-1,2-Dichloroethene    | 56.2          | D | 3.00 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Chloroform                | 63.8          | D | 3.40 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Benzene                   | 92.2          | D | 3.20 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,2-Dichloroethane        | 190           | D | 3.20 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Trichloroethene           | 120           | D | 3.20 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | t-1,3-Dichloropropene     | 150           | D | 2.60 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | cis-1,3-Dichloropropene   | 170           | D | 2.50 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 2-Hexanone                | 310           | D | 14.8 | 100  | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,2-Dibromoethane         | 27.0          | D | 3.50 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Tetrachloroethene         | 68.1          | D | 4.20 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Chlorobenzene             | 22.3          | D | 3.60 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,1,1,2-Tetrachloroethane | 64.1          | D | 3.10 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Ethyl Benzene             | 20.6          | D | 2.70 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Total Xylenes             | 360           | D | 8.30 | 60.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | m/p-Xylenes               | 180           | D | 5.00 | 40.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | o-Xylene                  | 180           | D | 3.30 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Styrene                   | 110           | D | 2.80 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Bromoform                 | 110           | D | 3.40 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,1,2,2-Tetrachloroethane | 160           | D | 4.80 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,2,3-Trichloropropane    | 140           | D | 5.00 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 2-Chlorotoluene           | 79.3          | D | 2.70 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | tert-Butylbenzene         | 120           | D | 2.70 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,2,4-Trimethylbenzene    | 190           | D | 2.60 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | p-Isopropyltoluene        | 170           | D | 2.50 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,3-Dichlorobenzene       | 49.5          | D | 6.80 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,4-Dichlorobenzene       | 78.2          | D | 6.20 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | 1,2,4-Trichlorobenzene    | 130           | D | 11.9 | 20.0 | ug/Kg |
| Q3483-23DL                  | HW1025-PT-VOA- SOIL         |        | Naphthalene               | 62.6          | D | 10.3 | 20.0 | ug/Kg |
| <b>Total Voc :</b>          |                             |        |                           | <b>3870</b>   |   |      |      |       |
| <b>Total Concentration:</b> |                             |        |                           | <b>3870</b>   |   |      |      |       |



# QC SUMMARY

## Surrogate Summary

SDG No.: Q3483

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D

| Lab Sample ID | Client ID            | Parameter             | Spike | Result | Recovery (%) | Qual | Limits (%) |      |
|---------------|----------------------|-----------------------|-------|--------|--------------|------|------------|------|
|               |                      |                       |       |        |              |      | Low        | High |
| Q3483-23      | HW1025-PT-VOA-SOIL   | 1,2-Dichloroethane-d4 | 50    | 50.3   | 101          |      | 63         | 155  |
|               |                      | Dibromofluoromethane  | 50    | 48.9   | 98           |      | 70         | 134  |
|               |                      | Toluene-d8            | 50    | 50.2   | 100          |      | 74         | 123  |
|               |                      | 4-Bromofluorobenzene  | 50    | 48.5   | 97           |      | 17         | 146  |
| Q3483-23DL    | HW1025-PT-VOA-SOILDL | 1,2-Dichloroethane-d4 | 50    | 52.0   | 104          |      | 63         | 155  |
|               |                      | Dibromofluoromethane  | 50    | 48.8   | 98           |      | 70         | 134  |
|               |                      | Toluene-d8            | 50    | 49.0   | 98           |      | 74         | 123  |
|               |                      | 4-Bromofluorobenzene  | 50    | 47.3   | 95           |      | 17         | 146  |
| VY1106SBL01   | VY1106SBL01          | 1,2-Dichloroethane-d4 | 50    | 59.7   | 119          |      | 63         | 155  |
|               |                      | Dibromofluoromethane  | 50    | 51.2   | 102          |      | 70         | 134  |
|               |                      | Toluene-d8            | 50    | 48.8   | 98           |      | 74         | 123  |
|               |                      | 4-Bromofluorobenzene  | 50    | 41.9   | 84           |      | 17         | 146  |
| VY1106SBS01   | VY1106SBS01          | 1,2-Dichloroethane-d4 | 50    | 52.0   | 104          |      | 63         | 155  |
|               |                      | Dibromofluoromethane  | 50    | 50.5   | 101          |      | 70         | 134  |
|               |                      | Toluene-d8            | 50    | 51.5   | 103          |      | 74         | 123  |
|               |                      | 4-Bromofluorobenzene  | 50    | 51.6   | 103          |      | 17         | 146  |
| VY1106SBSD01  | VY1106SBSD01         | 1,2-Dichloroethane-d4 | 50    | 51.9   | 104          |      | 63         | 155  |
|               |                      | Dibromofluoromethane  | 50    | 50.4   | 101          |      | 70         | 134  |
|               |                      | Toluene-d8            | 50    | 51.5   | 103          |      | 74         | 123  |
|               |                      | 4-Bromofluorobenzene  | 50    | 51.7   | 103          |      | 17         | 146  |



Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|          |                                            |                    |                   |
|----------|--------------------------------------------|--------------------|-------------------|
| SDG No.: | <u>Q3483</u>                               | Analytical Method: | <u>SW8260D</u>    |
| Client:  | <u>Alliance Technical Group, LLC - New</u> | Datafile :         | <u>VY023694.D</u> |

| Lab Sample ID | Parameter                      | Spike | Result | Unit  | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|-------|-----|-----|------|-----|-------------|-----|
| VY1106SBS01   | Dichlorodifluoromethane        | 20    | 22.0   | ug/Kg | 110 |     |      | 64  | 136         |     |
|               | Chloromethane                  | 20    | 21.4   | ug/Kg | 107 |     |      | 52  | 151         |     |
|               | Vinyl chloride                 | 20    | 20.6   | ug/Kg | 103 |     |      | 56  | 148         |     |
|               | Ethyl Acetate                  | 20    | 21.2   | ug/Kg | 106 |     |      | 77  | 113         |     |
|               | Isopropylacetate               | 20    | 20.6   | ug/Kg | 103 |     |      | 84  | 110         |     |
|               | Bromomethane                   | 20    | 21.4   | ug/Kg | 107 |     |      | 58  | 141         |     |
|               | Chloroethane                   | 20    | 20.3   | ug/Kg | 102 |     |      | 69  | 130         |     |
|               | Tetrahydrofuran                | 100   | 110    | ug/Kg | 110 |     | *    | 78  | 107         |     |
|               | Trichlorofluoromethane         | 20    | 20.6   | ug/Kg | 103 |     |      | 69  | 134         |     |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 20.7   | ug/Kg | 104 |     |      | 81  | 123         |     |
|               | Tert butyl alcohol             | 100   | 130    | ug/Kg | 130 |     |      | 24  | 175         |     |
|               | Diethyl Ether                  | 20    | 20.4   | ug/Kg | 102 |     |      | 87  | 115         |     |
|               | 1,1-Dichloroethene             | 20    | 20.4   | ug/Kg | 102 |     |      | 79  | 121         |     |
|               | Acrolein                       | 100   | 110    | ug/Kg | 110 |     |      | 54  | 141         |     |
|               | Acrylonitrile                  | 100   | 110    | ug/Kg | 110 |     |      | 68  | 136         |     |
|               | Acetone                        | 100   | 120    | ug/Kg | 120 |     |      | 40  | 171         |     |
|               | Carbon disulfide               | 20    | 21.0   | ug/Kg | 105 |     |      | 59  | 130         |     |
|               | Methyl tert-butyl Ether        | 20    | 20.4   | ug/Kg | 102 |     |      | 77  | 129         |     |
|               | Methyl Acetate                 | 20    | 21.3   | ug/Kg | 106 |     |      | 69  | 149         |     |
|               | Methylene Chloride             | 20    | 22.0   | ug/Kg | 110 |     |      | 72  | 131         |     |
|               | trans-1,2-Dichloroethene       | 20    | 20.9   | ug/Kg | 104 |     |      | 80  | 123         |     |
|               | Vinyl Acetate                  | 100   | 110    | ug/Kg | 110 |     |      | 86  | 117         |     |
|               | 1,1-Dichloroethane             | 20    | 20.9   | ug/Kg | 104 |     |      | 82  | 123         |     |
|               | Cyclohexane                    | 20    | 20.8   | ug/Kg | 104 |     |      | 76  | 122         |     |
|               | 2-Butanone                     | 100   | 110    | ug/Kg | 110 |     |      | 69  | 131         |     |
|               | Carbon Tetrachloride           | 20    | 20.5   | ug/Kg | 103 |     |      | 76  | 129         |     |
|               | 2,2-Dichloropropane            | 20    | 21.0   | ug/Kg | 105 |     |      | 62  | 143         |     |
|               | cis-1,2-Dichloroethene         | 20    | 20.2   | ug/Kg | 101 |     |      | 82  | 123         |     |
|               | Bromochloromethane             | 20    | 21.4   | ug/Kg | 107 |     |      | 80  | 127         |     |
|               | Chloroform                     | 20    | 20.6   | ug/Kg | 103 |     |      | 82  | 125         |     |
|               | 1,1,1-Trichloroethane          | 20    | 20.4   | ug/Kg | 102 |     |      | 80  | 126         |     |
|               | Methylcyclohexane              | 20    | 19.7   | ug/Kg | 99  |     |      | 77  | 123         |     |
|               | 1,1-Dichloropropene            | 20    | 20.4   | ug/Kg | 102 |     |      | 84  | 119         |     |
|               | Benzene                        | 20    | 20.5   | ug/Kg | 103 |     |      | 84  | 121         |     |
|               | 1,2-Dichloroethane             | 20    | 20.7   | ug/Kg | 104 |     |      | 81  | 126         |     |
|               | Trichloroethene                | 20    | 20.0   | ug/Kg | 100 |     |      | 83  | 122         |     |
|               | 1,2-Dichloropropane            | 20    | 20.8   | ug/Kg | 104 |     |      | 83  | 122         |     |
|               | Dibromomethane                 | 20    | 20.7   | ug/Kg | 104 |     |      | 83  | 119         |     |
|               | Bromodichloromethane           | 20    | 20.7   | ug/Kg | 104 |     |      | 82  | 123         |     |
|               | 4-Methyl-2-Pentanone           | 100   | 110    | ug/Kg | 110 |     |      | 70  | 135         |     |
|               | Methyl methacrylate            | 20    | 20.5   | ug/Kg | 103 |     |      | 77  | 121         |     |
|               | Toluene                        | 20    | 20.7   | ug/Kg | 104 |     |      | 83  | 122         |     |
|               | t-1,3-Dichloropropene          | 20    | 20.4   | ug/Kg | 102 |     |      | 78  | 124         |     |
|               | cis-1,3-Dichloropropene        | 20    | 20.6   | ug/Kg | 103 |     |      | 81  | 122         |     |
|               | 1,1,2-Trichloroethane          | 20    | 20.8   | ug/Kg | 104 |     |      | 82  | 125         |     |
|               | 1,3-Dichloropropane            | 20    | 20.6   | ug/Kg | 103 |     |      | 80  | 125         |     |
|               | 2-Chloroethyl vinyl ether      | 100   | 98.7   | ug/Kg | 99  |     |      | 36  | 195         |     |
|               | 2-Hexanone                     | 100   | 110    | ug/Kg | 110 |     |      | 66  | 138         |     |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

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|                 |                                            |                           |                   |
|-----------------|--------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q3483</u>                               | <b>Analytical Method:</b> | <u>SW8260D</u>    |
| <b>Client:</b>  | <u>Alliance Technical Group, LLC - New</u> | <b>Datafile :</b>         | <u>VY023694.D</u> |

| Lab Sample ID | Parameter                   | Spike | Result | Unit  | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|-----------------------------|-------|--------|-------|-----|-----|------|-----|----------------|-----|
| VY1106SBS01   | Dibromochloromethane        | 20    | 20.1   | ug/Kg | 101 |     |      | 79  | 125            |     |
|               | 1,2-Dibromoethane           | 20    | 20.8   | ug/Kg | 104 |     |      | 80  | 125            |     |
|               | Tetrachloroethene           | 20    | 19.8   | ug/Kg | 99  |     |      | 83  | 125            |     |
|               | Chlorobenzene               | 20    | 19.9   | ug/Kg | 100 |     |      | 84  | 122            |     |
|               | 1,1,1,2-Tetrachloroethane   | 20    | 19.8   | ug/Kg | 99  |     |      | 84  | 123            |     |
|               | Hexachloroethane            | 20    | 19.2   | ug/Kg | 96  |     |      | 76  | 121            |     |
|               | Ethyl Benzene               | 20    | 19.9   | ug/Kg | 100 |     |      | 82  | 124            |     |
|               | m/p-Xylenes                 | 40    | 40.1   | ug/Kg | 100 |     |      | 83  | 124            |     |
|               | o-Xylene                    | 20    | 19.6   | ug/Kg | 98  |     |      | 83  | 123            |     |
|               | Styrene                     | 20    | 19.8   | ug/Kg | 99  |     |      | 82  | 124            |     |
|               | Bromoform                   | 20    | 19.9   | ug/Kg | 100 |     |      | 75  | 127            |     |
|               | Isopropylbenzene            | 20    | 19.6   | ug/Kg | 98  |     |      | 82  | 124            |     |
|               | 1,1,2,2-Tetrachloroethane   | 20    | 20.5   | ug/Kg | 103 |     |      | 77  | 127            |     |
|               | 1,2,3-Trichloropropane      | 20    | 20.5   | ug/Kg | 103 |     |      | 58  | 144            |     |
|               | Bromobenzene                | 20    | 19.3   | ug/Kg | 97  |     |      | 83  | 120            |     |
|               | N-propylbenzene             | 20    | 20.2   | ug/Kg | 101 |     |      | 81  | 123            |     |
|               | 2-Chlorotoluene             | 20    | 19.9   | ug/Kg | 100 |     |      | 84  | 118            |     |
|               | 1,3,5-Trimethylbenzene      | 20    | 20.2   | ug/Kg | 101 |     |      | 82  | 124            |     |
|               | 4-Chlorotoluene             | 20    | 20.4   | ug/Kg | 102 |     |      | 82  | 122            |     |
|               | tert-Butylbenzene           | 20    | 19.5   | ug/Kg | 98  |     |      | 81  | 125            |     |
|               | 1,2,4-Trimethylbenzene      | 20    | 20.1   | ug/Kg | 101 |     |      | 81  | 125            |     |
|               | Sec-butylbenzene            | 20    | 19.9   | ug/Kg | 100 |     |      | 80  | 124            |     |
|               | p-Isopropyltoluene          | 20    | 19.7   | ug/Kg | 99  |     |      | 81  | 125            |     |
|               | 1,3-Dichlorobenzene         | 20    | 19.5   | ug/Kg | 98  |     |      | 83  | 122            |     |
|               | 1,4-Dichlorobenzene         | 20    | 19.4   | ug/Kg | 97  |     |      | 84  | 121            |     |
|               | n-Butylbenzene              | 20    | 19.5   | ug/Kg | 98  |     |      | 78  | 126            |     |
|               | 1,2-Dichlorobenzene         | 20    | 19.7   | ug/Kg | 99  |     |      | 83  | 124            |     |
|               | 1,2-Dibromo-3-Chloropropane | 20    | 20.0   | ug/Kg | 100 |     |      | 66  | 134            |     |
|               | 1,2,4-Trichlorobenzene      | 20    | 18.9   | ug/Kg | 95  |     |      | 78  | 127            |     |
|               | Hexachlorobutadiene         | 20    | 18.9   | ug/Kg | 95  |     |      | 80  | 123            |     |
|               | Naphthalene                 | 20    | 19.2   | ug/Kg | 96  |     |      | 70  | 134            |     |
|               | 1,2,3-Trichlorobenzene      | 20    | 19.6   | ug/Kg | 98  |     |      | 70  | 137            |     |
|               | N-amyl acetate              | 20    | 19.2   | ug/Kg | 96  |     |      | 85  | 115            |     |
|               | Methyl iodide               | 20    | 18.1   | ug/Kg | 91  |     |      | 57  | 135            |     |
|               | Allyl chloride              | 20    | 20.8   | ug/Kg | 104 |     |      | 89  | 113            |     |
|               | Methacrylonitrile           | 20    | 16.8   | ug/Kg | 84  |     |      | 75  | 120            |     |
|               | trans-1,4-Dichloro-2-butene | 20    | 19.1   | ug/Kg | 96  |     |      | 74  | 115            |     |
|               | Diisopropyl ether           | 20    | 21.5   | ug/Kg | 108 |     |      | 88  | 125            |     |
|               | 1,4-Dioxane                 | 400   | 410    | ug/Kg | 103 |     |      | 61  | 144            |     |

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

**SW-846**

|                 |                                            |                           |                   |
|-----------------|--------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <b>Q3483</b>                               | <b>Analytical Method:</b> | <b>SW8260D</b>    |
| <b>Client:</b>  | <b>Alliance Technical Group, LLC - New</b> | <b>Datafile :</b>         | <b>VY023695.D</b> |

| Lab Sample ID | Parameter                      | Spike | Result | Unit  | Rec | RPD | Qual | Low | Limits High | RPD |
|---------------|--------------------------------|-------|--------|-------|-----|-----|------|-----|-------------|-----|
| VY1106SBSD01  | Dichlorodifluoromethane        | 20    | 22.5   | ug/Kg | 113 | 3   |      | 64  | 136         | 20  |
|               | Chloromethane                  | 20    | 22.4   | ug/Kg | 112 | 5   |      | 52  | 151         | 20  |
|               | Vinyl chloride                 | 20    | 21.3   | ug/Kg | 106 | 3   |      | 56  | 148         | 20  |
|               | Ethyl Acetate                  | 20    | 21.5   | ug/Kg | 108 | 2   |      | 77  | 113         | 20  |
|               | Isopropylacetate               | 20    | 21.5   | ug/Kg | 108 | 5   |      | 84  | 110         | 20  |
|               | Bromomethane                   | 20    | 21.1   | ug/Kg | 106 | 1   |      | 58  | 141         | 20  |
|               | Chloroethane                   | 20    | 21.4   | ug/Kg | 107 | 5   |      | 69  | 130         | 20  |
|               | Tetrahydrofuran                | 100   | 110    | ug/Kg | 110 | 0   | *    | 78  | 107         | 20  |
|               | Trichlorofluoromethane         | 20    | 20.7   | ug/Kg | 104 | 1   |      | 69  | 134         | 20  |
|               | 1,1,2-Trichlorotrifluoroethane | 20    | 20.9   | ug/Kg | 104 | 0   |      | 81  | 123         | 20  |
|               | Tert butyl alcohol             | 100   | 140    | ug/Kg | 140 | 7   |      | 24  | 175         | 20  |
|               | Diethyl Ether                  | 20    | 21.7   | ug/Kg | 109 | 7   |      | 87  | 115         | 20  |
|               | 1,1-Dichloroethene             | 20    | 20.6   | ug/Kg | 103 | 1   |      | 79  | 121         | 20  |
|               | Acrolein                       | 100   | 110    | ug/Kg | 110 | 0   |      | 54  | 141         | 20  |
|               | Acrylonitrile                  | 100   | 110    | ug/Kg | 110 | 0   |      | 68  | 136         | 20  |
|               | Acetone                        | 100   | 120    | ug/Kg | 120 | 0   |      | 40  | 171         | 20  |
|               | Carbon disulfide               | 20    | 21.5   | ug/Kg | 108 | 3   |      | 59  | 130         | 20  |
|               | Methyl tert-butyl Ether        | 20    | 21.4   | ug/Kg | 107 | 5   |      | 77  | 129         | 20  |
|               | Methyl Acetate                 | 20    | 21.3   | ug/Kg | 106 | 0   |      | 69  | 149         | 20  |
|               | Methylene Chloride             | 20    | 23.3   | ug/Kg | 117 | 6   |      | 72  | 131         | 20  |
|               | trans-1,2-Dichloroethene       | 20    | 20.8   | ug/Kg | 104 | 0   |      | 80  | 123         | 20  |
|               | Vinyl Acetate                  | 100   | 110    | ug/Kg | 110 | 0   |      | 86  | 117         | 20  |
|               | 1,1-Dichloroethane             | 20    | 21.3   | ug/Kg | 106 | 2   |      | 82  | 123         | 20  |
|               | Cyclohexane                    | 20    | 21.1   | ug/Kg | 106 | 2   |      | 76  | 122         | 20  |
|               | 2-Butanone                     | 100   | 120    | ug/Kg | 120 | 9   |      | 69  | 131         | 20  |
|               | Carbon Tetrachloride           | 20    | 20.2   | ug/Kg | 101 | 2   |      | 76  | 129         | 20  |
|               | 2,2-Dichloropropane            | 20    | 21.5   | ug/Kg | 108 | 3   |      | 62  | 143         | 20  |
|               | cis-1,2-Dichloroethene         | 20    | 21.3   | ug/Kg | 106 | 5   |      | 82  | 123         | 20  |
|               | Bromochloromethane             | 20    | 22.4   | ug/Kg | 112 | 5   |      | 80  | 127         | 20  |
|               | Chloroform                     | 20    | 21.3   | ug/Kg | 106 | 3   |      | 82  | 125         | 20  |
|               | 1,1,1-Trichloroethane          | 20    | 21.0   | ug/Kg | 105 | 3   |      | 80  | 126         | 20  |
|               | Methylcyclohexane              | 20    | 20.1   | ug/Kg | 101 | 2   |      | 77  | 123         | 20  |
|               | 1,1-Dichloropropene            | 20    | 20.6   | ug/Kg | 103 | 1   |      | 84  | 119         | 20  |
|               | Benzene                        | 20    | 21.2   | ug/Kg | 106 | 3   |      | 84  | 121         | 20  |
|               | 1,2-Dichloroethane             | 20    | 21.4   | ug/Kg | 107 | 3   |      | 81  | 126         | 20  |
|               | Trichloroethene                | 20    | 20.6   | ug/Kg | 103 | 3   |      | 83  | 122         | 20  |
|               | 1,2-Dichloropropane            | 20    | 21.3   | ug/Kg | 106 | 2   |      | 83  | 122         | 20  |
|               | Dibromomethane                 | 20    | 21.1   | ug/Kg | 106 | 2   |      | 83  | 119         | 20  |
|               | Bromodichloromethane           | 20    | 21.3   | ug/Kg | 106 | 2   |      | 82  | 123         | 20  |
|               | 4-Methyl-2-Pentanone           | 100   | 110    | ug/Kg | 110 | 0   |      | 70  | 135         | 20  |
|               | Methyl methacrylate            | 20    | 20.8   | ug/Kg | 104 | 1   |      | 77  | 121         | 20  |
|               | Toluene                        | 20    | 21.1   | ug/Kg | 106 | 2   |      | 83  | 122         | 20  |
|               | t-1,3-Dichloropropene          | 20    | 21.3   | ug/Kg | 106 | 4   |      | 78  | 124         | 20  |
|               | cis-1,3-Dichloropropene        | 20    | 21.0   | ug/Kg | 105 | 2   |      | 81  | 122         | 20  |
|               | 1,1,2-Trichloroethane          | 20    | 21.3   | ug/Kg | 106 | 2   |      | 82  | 125         | 20  |
|               | 1,3-Dichloropropane            | 20    | 21.5   | ug/Kg | 108 | 5   |      | 80  | 125         | 20  |
|               | 2-Chloroethyl vinyl ether      | 100   | 100    | ug/Kg | 100 | 1   |      | 36  | 195         | 20  |
|               | 2-Hexanone                     | 100   | 110    | ug/Kg | 110 | 0   |      | 66  | 138         | 20  |

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

**SW-846**

|                 |                                            |                           |                   |
|-----------------|--------------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <b>Q3483</b>                               | <b>Analytical Method:</b> | <b>SW8260D</b>    |
| <b>Client:</b>  | <b>Alliance Technical Group, LLC - New</b> | <b>Datafile :</b>         | <b>VY023695.D</b> |

| Lab Sample ID | Parameter                   | Spike | Result | Unit  | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|-----------------------------|-------|--------|-------|-----|-----|------|-----|----------------|-----|
| VY1106SBSD01  | Dibromochloromethane        | 20    | 20.6   | ug/Kg | 103 | 2   |      | 79  | 125            | 20  |
|               | 1,2-Dibromoethane           | 20    | 21.3   | ug/Kg | 106 | 2   |      | 80  | 125            | 20  |
|               | Tetrachloroethene           | 20    | 20.1   | ug/Kg | 101 | 2   |      | 83  | 125            | 20  |
|               | Chlorobenzene               | 20    | 20.4   | ug/Kg | 102 | 2   |      | 84  | 122            | 20  |
|               | 1,1,1,2-Tetrachloroethane   | 20    | 20.5   | ug/Kg | 103 | 4   |      | 84  | 123            | 20  |
|               | Hexachloroethane            | 20    | 20.6   | ug/Kg | 103 | 7   |      | 76  | 121            | 20  |
|               | Ethyl Benzene               | 20    | 20.5   | ug/Kg | 103 | 3   |      | 82  | 124            | 20  |
|               | m/p-Xylenes                 | 40    | 41.2   | ug/Kg | 103 | 3   |      | 83  | 124            | 20  |
|               | o-Xylene                    | 20    | 20.1   | ug/Kg | 101 | 3   |      | 83  | 123            | 20  |
|               | Styrene                     | 20    | 20.6   | ug/Kg | 103 | 4   |      | 82  | 124            | 20  |
|               | Bromoform                   | 20    | 21.0   | ug/Kg | 105 | 5   |      | 75  | 127            | 20  |
|               | Isopropylbenzene            | 20    | 20.4   | ug/Kg | 102 | 4   |      | 82  | 124            | 20  |
|               | 1,1,2,2-Tetrachloroethane   | 20    | 21.6   | ug/Kg | 108 | 5   |      | 77  | 127            | 20  |
|               | 1,2,3-Trichloropropane      | 20    | 20.8   | ug/Kg | 104 | 1   |      | 58  | 144            | 20  |
|               | Bromobenzene                | 20    | 20.5   | ug/Kg | 103 | 6   |      | 83  | 120            | 20  |
|               | N-propylbenzene             | 20    | 20.9   | ug/Kg | 104 | 3   |      | 81  | 123            | 20  |
|               | 2-Chlorotoluene             | 20    | 20.7   | ug/Kg | 104 | 4   |      | 84  | 118            | 20  |
|               | 1,3,5-Trimethylbenzene      | 20    | 20.9   | ug/Kg | 104 | 3   |      | 82  | 124            | 20  |
|               | 4-Chlorotoluene             | 20    | 20.9   | ug/Kg | 104 | 2   |      | 82  | 122            | 20  |
|               | tert-Butylbenzene           | 20    | 19.9   | ug/Kg | 100 | 2   |      | 81  | 125            | 20  |
|               | 1,2,4-Trimethylbenzene      | 20    | 21.1   | ug/Kg | 106 | 5   |      | 81  | 125            | 20  |
|               | Sec-butylbenzene            | 20    | 20.4   | ug/Kg | 102 | 2   |      | 80  | 124            | 20  |
|               | p-Isopropyltoluene          | 20    | 20.4   | ug/Kg | 102 | 3   |      | 81  | 125            | 20  |
|               | 1,3-Dichlorobenzene         | 20    | 20.5   | ug/Kg | 103 | 5   |      | 83  | 122            | 20  |
|               | 1,4-Dichlorobenzene         | 20    | 20.4   | ug/Kg | 102 | 5   |      | 84  | 121            | 20  |
|               | n-Butylbenzene              | 20    | 20.4   | ug/Kg | 102 | 4   |      | 78  | 126            | 20  |
|               | 1,2-Dichlorobenzene         | 20    | 20.5   | ug/Kg | 103 | 4   |      | 83  | 124            | 20  |
|               | 1,2-Dibromo-3-Chloropropane | 20    | 20.8   | ug/Kg | 104 | 4   |      | 66  | 134            | 20  |
|               | 1,2,4-Trichlorobenzene      | 20    | 20.4   | ug/Kg | 102 | 7   |      | 78  | 127            | 20  |
|               | Hexachlorobutadiene         | 20    | 20.0   | ug/Kg | 100 | 5   |      | 80  | 123            | 20  |
|               | Naphthalene                 | 20    | 20.5   | ug/Kg | 103 | 7   |      | 70  | 134            | 20  |
|               | 1,2,3-Trichlorobenzene      | 20    | 20.7   | ug/Kg | 104 | 6   |      | 70  | 137            | 20  |
|               | N-amyl acetate              | 20    | 20.7   | ug/Kg | 104 | 8   |      | 85  | 115            | 20  |
|               | Methyl iodide               | 20    | 19.6   | ug/Kg | 98  | 7   |      | 57  | 135            | 20  |
|               | Allyl chloride              | 20    | 22.0   | ug/Kg | 110 | 6   |      | 89  | 113            | 20  |
|               | Methacrylonitrile           | 20    | 17.8   | ug/Kg | 89  | 6   |      | 75  | 120            | 20  |
|               | trans-1,4-Dichloro-2-butene | 20    | 20.9   | ug/Kg | 104 | 8   |      | 74  | 115            | 20  |
|               | Diisopropyl ether           | 20    | 22.5   | ug/Kg | 113 | 5   |      | 88  | 125            | 20  |
|               | 1,4-Dioxane                 | 400   | 420    | ug/Kg | 105 | 2   |      | 61  | 144            | 20  |

VOLATILE METHOD BLANK SUMMARY

Client ID

VY1106SBL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3483

Lab File ID: VY023693.D

Lab Sample ID: VY1106SBL01

Date Analyzed: 11/06/2025

Time Analyzed: 09:13

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA\_Y

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

| EPA<br>SAMPLE NO.    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----------------------|------------------|----------------|------------------|
| VY1106SBS01          | VY1106SBS01      | VY023694.D     | 11/06/2025       |
| VY1106SBSD01         | VY1106SBSD01     | VY023695.D     | 11/06/2025       |
| HW1025-PT-VOA-SOIL   | Q3483-23         | VY023696.D     | 11/06/2025       |
| HW1025-PT-VOA-SOILDL | Q3483-23DL       | VY023698.D     | 11/06/2025       |

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



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3483

Lab File ID: VY023660.D

BFB Injection Date: 11/04/2025

Instrument ID: MSVOA\_Y

BFB Injection Time: 08:11

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

Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 17.3                 |
| 75  | 30.0 - 60.0% of mass 95            | 49                   |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 1.3 ( 1.3 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 94.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 7 ( 7.4 ) 1          |
| 176 | 95.0 - 101.0% of mass 174          | 91.1 ( 96.1 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 6 ( 6.5 ) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-----------|---------------|-------------|---------------|---------------|
| VSTDIC005 | VSTDIC005     | VY023661.D  | 11/04/2025    | 09:19         |
| VSTDIC010 | VSTDIC010     | VY023662.D  | 11/04/2025    | 09:42         |
| VSTDIC020 | VSTDIC020     | VY023663.D  | 11/04/2025    | 10:19         |
| VSTDIC050 | VSTDIC050     | VY023664.D  | 11/04/2025    | 10:42         |
| VSTDIC100 | VSTDIC100     | VY023665.D  | 11/04/2025    | 11:05         |
| VSTDIC150 | VSTDIC150     | VY023666.D  | 11/04/2025    | 11:27         |



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3483

Lab File ID: VY023691.D

BFB Injection Date: 11/06/2025

Instrument ID: MSVOA\_Y

BFB Injection Time: 08:09

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

Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 17.2                 |
| 75  | 30.0 - 60.0% of mass 95            | 50                   |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |
| 173 | Less than 2.0% of mass 174         | 1.2 ( 1.3 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 91                   |
| 175 | 5.0 - 9.0% of mass 174             | 6.9 ( 7.6 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 89 ( 97.8 ) 1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.8 ( 6.6 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID            | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------------|---------------|-------------|---------------|---------------|
| VSTDCCC050           | VSTDCCC050    | VY023692.D  | 11/06/2025    | 08:42         |
| VY1106SBL01          | VY1106SBL01   | VY023693.D  | 11/06/2025    | 09:13         |
| VY1106SBS01          | VY1106SBS01   | VY023694.D  | 11/06/2025    | 09:44         |
| VY1106SBSD01         | VY1106SBSD01  | VY023695.D  | 11/06/2025    | 10:07         |
| HW1025-PT-VOA-SOIL   | Q3483-23      | VY023696.D  | 11/06/2025    | 10:44         |
| HW1025-PT-VOA-SOILDL | Q3483-23DL    | VY023698.D  | 11/06/2025    | 11:40         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG NO.: Q3483  
 Lab File ID: VY023692.D Date Analyzed: 11/06/2025  
 Instrument ID: MSVOA\_Y Time Analyzed: 08:42  
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

|                      | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT #  | IS3<br>AREA # | RT #  |
|----------------------|---------------|-------|---------------|-------|---------------|-------|
| 12 HOUR STD          | 535947        | 7.71  | 779935        | 8.62  | 686552        | 11.42 |
| UPPER LIMIT          | 1071890       | 8.213 | 1559870       | 9.116 | 1373100       | 11.92 |
| LOWER LIMIT          | 267974        | 7.213 | 389968        | 8.116 | 343276        | 10.92 |
| EPA SAMPLE NO.       |               |       |               |       |               |       |
| HW1025-PT-VOA-SOIL   | 531680        | 7.71  | 813455        | 8.62  | 703875        | 11.42 |
| HW1025-PT-VOA-SOILDL | 525542        | 7.71  | 837737        | 8.62  | 724701        | 11.42 |
| VY1106SBL01          | 739742        | 7.71  | 1301529       | 8.62  | 1087747       | 11.42 |
| VY1106SBS01          | 546965        | 7.71  | 822052        | 8.62  | 728273        | 11.41 |
| VY1106SBSD01         | 530734        | 7.71  | 804208        | 8.62  | 708727        | 11.41 |

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

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

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



VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG NO.: Q3483  
 Lab File ID: VY023692.D Date Analyzed: 11/06/2025  
 Instrument ID: MSVOA\_Y Time Analyzed: 08:42  
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

|                      | IS4<br>AREA # | RT #   |  |  |  |  |
|----------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD          | 343829        | 13.346 |  |  |  |  |
| UPPER LIMIT          | 687658        | 13.846 |  |  |  |  |
| LOWER LIMIT          | 171915        | 12.846 |  |  |  |  |
| EPA SAMPLE NO.       |               |        |  |  |  |  |
| HW1025-PT-VOA-SOIL   | 354034        | 13.35  |  |  |  |  |
| HW1025-PT-VOA-SOILDL | 374577        | 13.35  |  |  |  |  |
| VY1106SBL01          | 415434        | 13.35  |  |  |  |  |
| VY1106SBS01          | 370507        | 13.35  |  |  |  |  |
| VY1106SBSD01         | 361529        | 13.35  |  |  |  |  |

IS4 = 1,4-Dichlorobenzene-d4

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

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



# SAMPLE DATA

### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: HW1025-PT-VOA-SOIL

Lab Sample ID: Q3483-23

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected: 10/27/25

Date Received: 10/29/25

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number     | Parameter                      | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|----------------|--------------------------------|-------|------|----|------|------------|-------|----------------|----------|
| <b>TARGETS</b> |                                |       |      |    |      |            |       |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 74-87-3        | Chloromethane                  | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-01-4        | Vinyl Chloride                 | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 141-78-6       | Ethyl Acetate                  | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-21-4       | Isopropyl Acetate              | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 74-83-9        | Bromomethane                   | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-00-3        | Chloroethane                   | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 109-99-9       | Tetrahydrofuran                | 4.70  | UQ   | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-69-4        | Trichlorofluoromethane         | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-65-0        | Tert butyl alcohol             | 13.7  | U    | 1  | 13.7 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 60-29-7        | Diethyl Ether                  | 0.77  | U    | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-35-4        | 1,1-Dichloroethene             | 100   |      | 1  | 1.00 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 107-02-8       | Acrolein                       | 8.80  | U    | 1  | 8.80 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 107-13-1       | Acrylonitrile                  | 5.00  | U    | 1  | 5.00 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 67-64-1        | Acetone                        | 320   |      | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-15-0        | Carbon Disulfide               | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 1634-04-4      | Methyl tert-butyl Ether        | 82.6  |      | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 79-20-9        | Methyl Acetate                 | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-09-2        | Methylene Chloride             | 3.50  | U    | 1  | 3.50 | 10.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 63.4  |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-05-4       | Vinyl Acetate                  | 4.90  | U    | 1  | 4.90 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.80  | U    | 1  | 0.80 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 110-82-7       | Cyclohexane                    | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 78-93-3        | 2-Butanone                     | 130   |      | 1  | 6.50 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 56-23-5        | Carbon Tetrachloride           | 65.7  |      | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 594-20-7       | 2,2-Dichloropropane            | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 58.0  |      | 1  | 0.75 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 74-97-5        | Bromochloromethane             | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 67-66-3        | Chloroform                     | 61.6  |      | 1  | 0.84 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.93  | U    | 1  | 0.93 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-87-2       | Methylcyclohexane              | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 563-58-6       | 1,1-Dichloropropene            | 0.87  | U    | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 71-43-2        | Benzene                        | 95.4  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 107-06-2       | 1,2-Dichloroethane             | 190   | E    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 79-01-6        | Trichloroethene                | 120   |      | 1  | 0.81 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 74-95-3        | Dibromomethane                 | 0.89  | U    | 1  | 0.89 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-27-4        | Bromodichloromethane           | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.60  | U    | 1  | 3.60 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 80-62-6        | Methyl methacrylate            | 0.74  | U    | 1  | 0.74 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-88-3       | Toluene                        | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 160   | E    | 1  | 0.65 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |



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## Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: HW1025-PT-VOA-SOIL

Lab Sample ID: Q3483-23

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected: 10/27/25

Date Received: 10/29/25

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number  | Parameter                   | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|-------------|-----------------------------|-------|------|----|------|------------|-------|----------------|----------|
| 10061-01-5  | cis-1,3-Dichloropropene     | 180   | E    | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 79-00-5     | 1,1,2-Trichloroethane       | 0.92  | U    | 1  | 0.92 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 142-28-9    | 1,3-Dichloropropane         | 0.68  | U    | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 110-75-8    | 2-Chloroethyl Vinyl ether   | 3.80  | U    | 1  | 3.80 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 591-78-6    | 2-Hexanone                  | 350   |      | 1  | 3.70 | 25.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 124-48-1    | Dibromochloromethane        | 0.87  | U    | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 106-93-4    | 1,2-Dibromoethane           | 27.1  |      | 1  | 0.88 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 127-18-4    | Tetrachloroethene           | 71.2  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-90-7    | Chlorobenzene               | 22.9  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane   | 65.5  |      | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 67-72-1     | Hexachloroethane            | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 100-41-4    | Ethyl Benzene               | 22.9  |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 179601-23-1 | m/p-Xylenes                 | 190   |      | 1  | 1.20 | 10.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 1330-20-7   | Total Xylenes               | 390   |      | 1  | 2.02 | 15.0       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 95-47-6     | o-Xylene                    | 200   | E    | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 100-42-5    | Styrene                     | 110   |      | 1  | 0.71 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 75-25-2     | Bromoform                   | 110   |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 98-82-8     | Isopropylbenzene            | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane   | 160   | E    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 96-18-4     | 1,2,3-Trichloropropane      | 140   |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-86-1    | Bromobenzene                | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 103-65-1    | n-propylbenzene             | 0.73  | U    | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 95-49-8     | 2-Chlorotoluene             | 90.9  |      | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 108-67-8    | 1,3,5-Trimethylbenzene      | 0.82  | U    | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 106-43-4    | 4-Chlorotoluene             | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 98-06-6     | tert-Butylbenzene           | 140   |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 95-63-6     | 1,2,4-Trimethylbenzene      | 200   | E    | 1  | 0.64 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 135-98-8    | sec-Butylbenzene            | 0.66  | U    | 1  | 0.66 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 99-87-6     | p-Isopropyltoluene          | 200   | E    | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 541-73-1    | 1,3-Dichlorobenzene         | 53.8  |      | 1  | 1.70 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 106-46-7    | 1,4-Dichlorobenzene         | 81.5  |      | 1  | 1.60 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 104-51-8    | n-Butylbenzene              | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 95-50-1     | 1,2-Dichlorobenzene         | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 96-12-8     | 1,2-Dibromo-3-Chloropropane | 1.80  | U    | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 120-82-1    | 1,2,4-Trichlorobenzene      | 160   | E    | 1  | 3.00 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 87-68-3     | Hexachlorobutadiene         | 1.90  | U    | 1  | 1.90 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 91-20-3     | Naphthalene                 | 60.8  |      | 1  | 2.60 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 87-61-6     | 1,2,3-Trichlorobenzene      | 3.20  | U    | 1  | 3.20 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 628-63-7    | N-amyl acetate              | 0.97  | U    | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 74-88-4     | Methyl Iodide               | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 107-05-1    | Allyl chloride              | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 110-57-6    | trans-1,4-Dichloro-2-butene | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |
| 126-98-7    | Methacrylonitrile           | 1.80  | U    | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 10:44 | VY110625 |



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

## Report of Analysis

|                    |                                        |                 |              |
|--------------------|----------------------------------------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 10/27/25     |
| Project:           | NJ Soil PT                             | Date Received:  | 10/29/25     |
| Client Sample ID:  | HW1025-PT-VOA-SOIL                     | SDG No.:        | Q3483        |
| Lab Sample ID:     | Q3483-23                               | Matrix:         | SOIL         |
| Analytical Method: | 8260D                                  | % Solid:        | 100          |
| Sample Wt/Vol:     | 5 g                                    | Test:           | VOCMS Group1 |
|                    | Level: LOW                             |                 |              |
|                    | Final Vol: 5000 uL                     |                 |              |

| CAS Number                | Parameter              | Conc.             | Qua. | DF | MDL      | LOQ / CRQL | Units   | Date Ana.      | BatchID  |
|---------------------------|------------------------|-------------------|------|----|----------|------------|---------|----------------|----------|
| 108-20-3                  | Diisopropyl ether      | 0.55              | U    | 1  | 0.55     | 5.00       | ug/Kg   | 11/06/25 10:44 | VY110625 |
| 123-91-1                  | 1,4-Dioxane            | 48.1              | U    | 1  | 48.1     | 100        | ug/Kg   | 11/06/25 10:44 | VY110625 |
| <b>SURROGATES</b>         |                        |                   |      |    |          |            |         |                |          |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 50.3              |      |    | 63 - 155 | 101%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 48.9              |      |    | 70 - 134 | 98%        | SPK: 50 |                |          |
| 2037-26-5                 | Toluene-d8             | 50.2              |      |    | 74 - 123 | 100%       | SPK: 50 |                |          |
| 460-00-4                  | 4-Bromofluorobenzene   | 48.5              |      |    | 17 - 146 | 97%        | SPK: 50 |                |          |
| <b>INTERNAL STANDARDS</b> |                        |                   |      |    |          |            |         |                |          |
|                           |                        | <b>Area Count</b> |      |    |          |            |         |                |          |
| 363-72-4                  | Pentafluorobenzene     | 532000            |      |    |          |            |         |                |          |
| 540-36-3                  | 1,4-Difluorobenzene    | 813000            |      |    |          |            |         |                |          |
| 3114-55-4                 | Chlorobenzene-d5       | 704000            |      |    |          |            |         |                |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 354000            |      |    |          |            |         |                |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023696.D  
 Acq On : 06 Nov 2025 10:44  
 Operator : SY/MD  
 Sample : Q3483-23  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOIL

Quant Time: Nov 07 04:14:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.713          | 168  | 531680              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.615          | 114  | 813455              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 703875              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346         | 152  | 354034              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061          | 65   | 228076              | 50.289  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 100.580% |         |        |          |
| 35) Dibromofluoromethane      | 7.640          | 113  | 248488              | 48.881  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 97.760%  |         |        |          |
| 50) Toluene-d8                | 10.109         | 98   | 949946              | 50.165  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 100.320% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.407         | 95   | 297087              | 48.513  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 97.020%  |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 12) 1,1-Dichloroethene        | 3.793          | 96   | 481777              | 101.419 | ug/l   | 95       |
| 16) Acetone                   | 3.866          | 43   | 356834              | 316.528 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether   | 5.122          | 73   | 910067              | 82.619  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene  | 5.116          | 96   | 339439              | 63.374  | ug/l   | 96       |
| 25) 2-Butanone                | 6.890          | 43   | 171952              | 131.925 | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene    | 6.896          | 96   | 354504              | 57.952  | ug/l   | 92       |
| 30) Chloroform                | 7.420          | 83   | 589811              | 61.590  | ug/l   | 100      |
| 38) Carbon Tetrachloride      | 7.823          | 117  | 525907              | 65.709  | ug/l   | 99       |
| 40) Benzene                   | 8.079          | 78   | 2041641             | 95.351  | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 8.158          | 62   | 1014816             | 187.335 | ug/l   | 98       |
| 44) Trichloroethene           | 8.865          | 130  | 732269              | 119.069 | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.395         | 75   | 1013918             | 162.321 | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.859          | 75   | 1382853             | 184.780 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.761         | 43   | 675252              | 352.236 | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.017         | 107  | 99431               | 27.076  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.645         | 164  | 521687              | 71.208  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.444         | 112  | 350689              | 22.886  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517         | 131  | 354860              | 65.491  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.517         | 91   | 567291              | 22.874  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.627         | 106  | 1922231             | 193.996 | ug/l   | 99       |
| 69) o-Xylene                  | 11.956         | 106  | 1812923             | 197.930 | ug/l   | 98       |
| 70) Styrene                   | 11.968         | 104  | 1730175             | 114.486 | ug/l   | 92       |
| 71) Bromoform                 | 12.133         | 173  | 343729              | 108.617 | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.505         | 83   | 610157              | 161.343 | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560         | 75   | 410876              | 143.400 | ug/l # | 100      |
| 79) 2-Chlorotoluene           | 12.682         | 91   | 1468830             | 90.881  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999         | 119  | 2478715             | 141.463 | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.041         | 105  | 3851184             | 202.108 | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.291         | 119  | 4278014             | 199.958 | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.285         | 146  | 650411              | 53.803  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.364         | 146  | 967739              | 81.494  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 14.919         | 180  | 950793              | 159.556 | ug/l   | 99       |
| 95) Naphthalene               | 15.145         | 128  | 646088              | 60.753  | ug/l   | 99       |
| -----                         |                |      |                     |         |        |          |

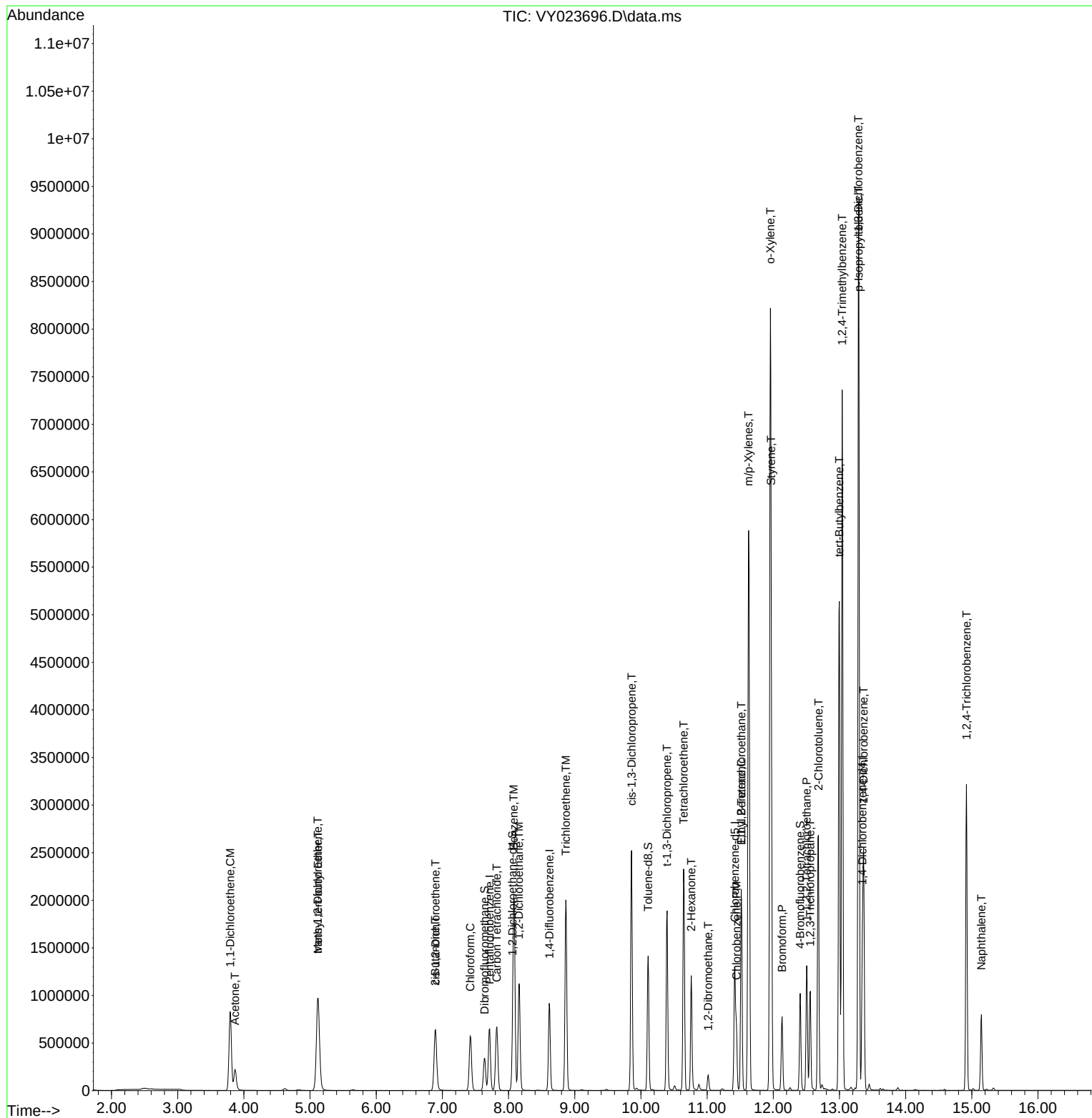
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
HW1025-PT-VOA-SOIL

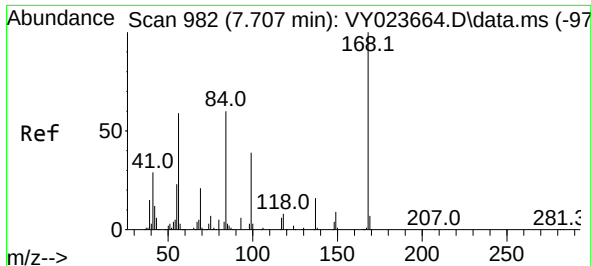
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Acq On : 06 Nov 2025 10:44  
Operator : SY/MD  
Sample : Q3483-23  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

Quant Time: Nov 07 04:14:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration



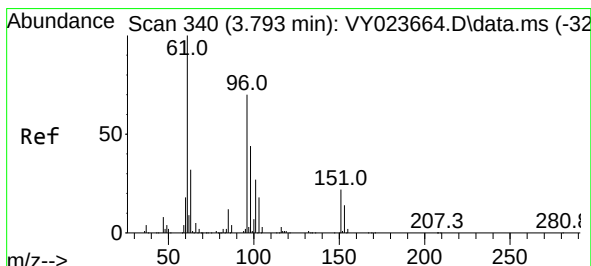
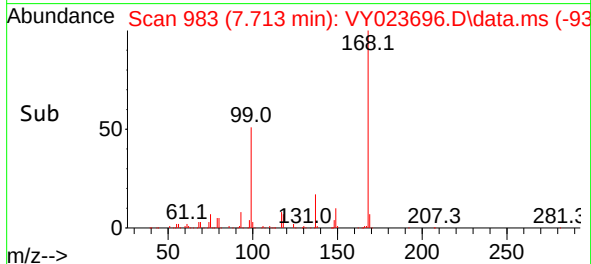
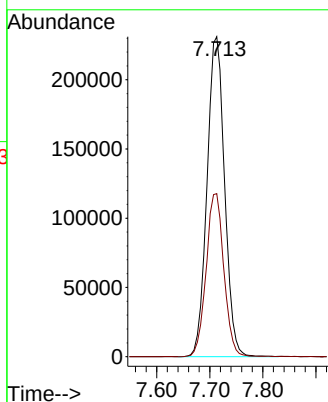
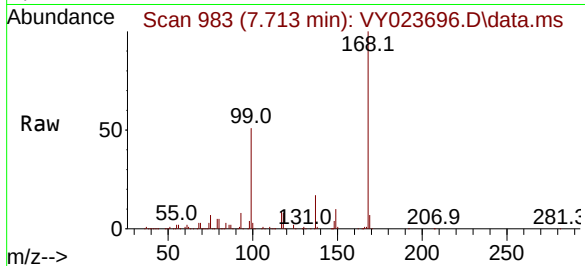




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

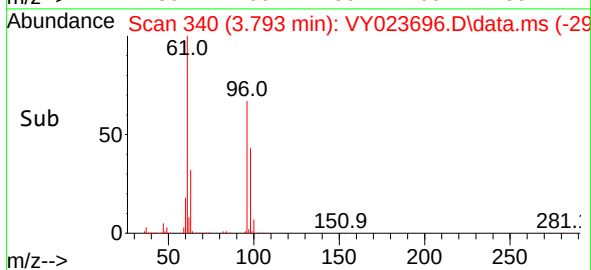
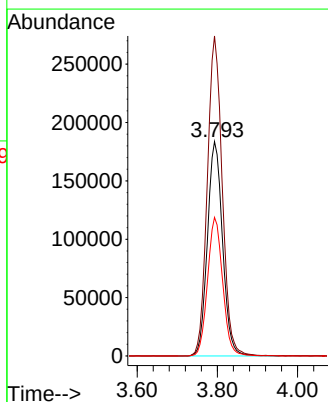
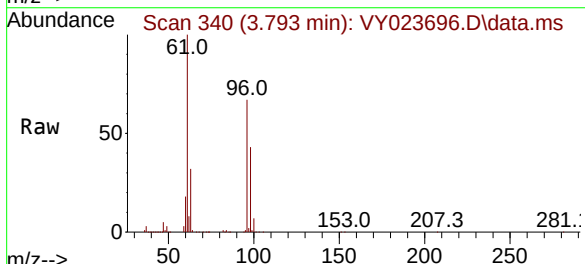
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

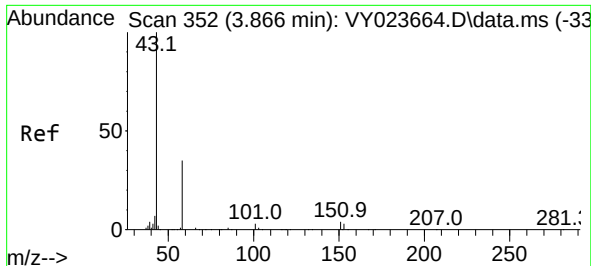
Tgt Ion:168 Resp: 531680  
Ion Ratio Lower Upper  
168 100  
99 51.0 41.0 61.4



#12  
1,1-Dichloroethene  
Concen: 101.419 ug/l  
RT: 3.793 min Scan# 340  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 96 Resp: 481777  
Ion Ratio Lower Upper  
96 100  
61 149.2 114.0 171.0  
98 64.6 50.2 75.2

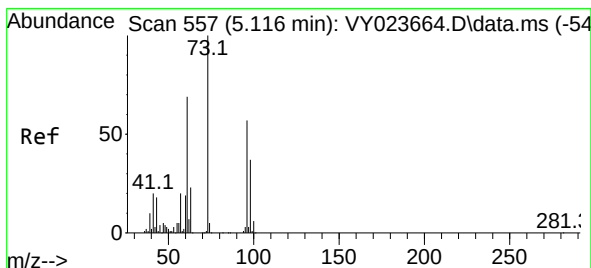
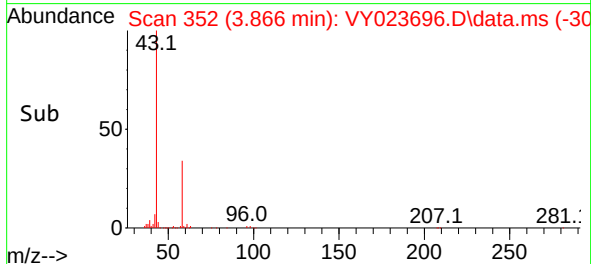
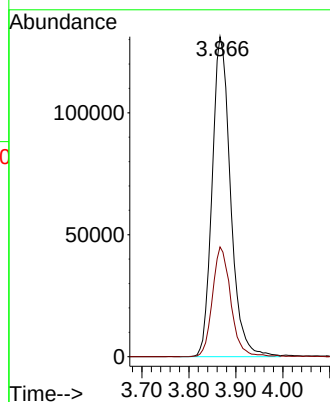
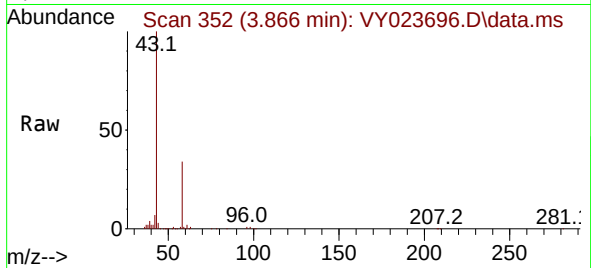




#16  
Acetone  
Concen: 316.528 ug/l  
RT: 3.866 min Scan# 316  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

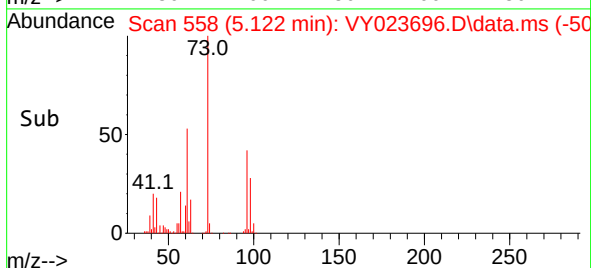
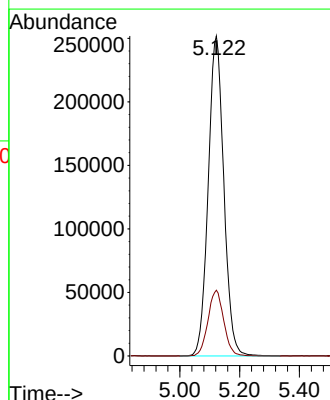
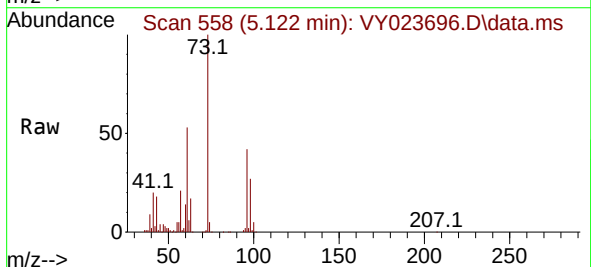
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

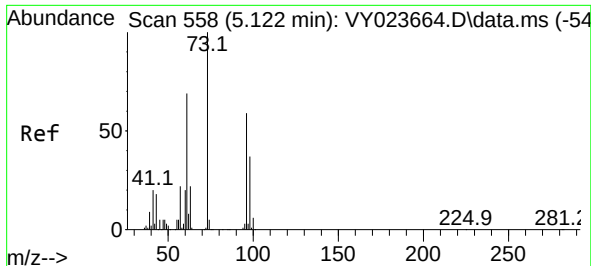
Tgt Ion: 43 Resp: 356834  
Ion Ratio Lower Upper  
43 100  
58 34.3 28.2 42.4



#19  
Methyl tert-butyl Ether  
Concen: 82.619 ug/l  
RT: 5.122 min Scan# 558  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 73 Resp: 910067  
Ion Ratio Lower Upper  
73 100  
57 20.6 16.1 24.1

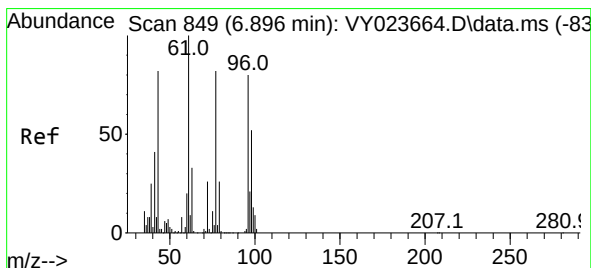
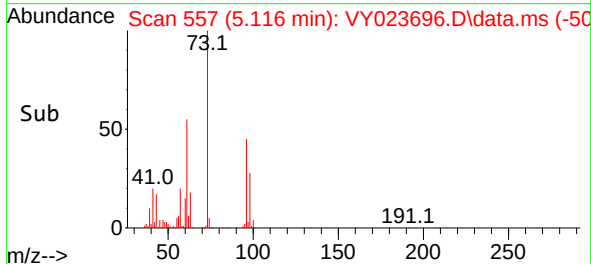
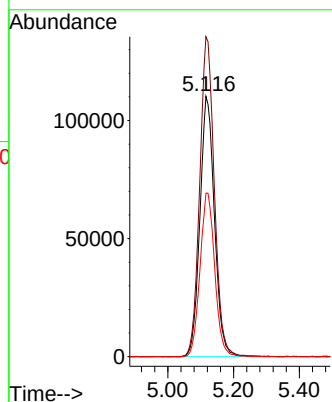
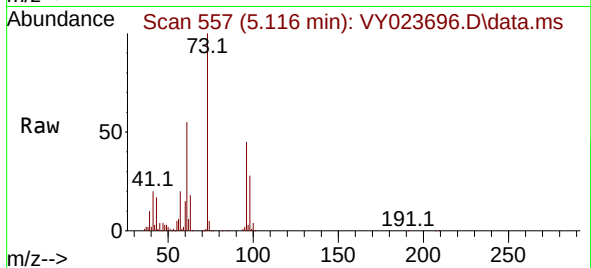




#21  
trans-1,2-Dichloroethene  
Concen: 63.374 ug/l  
RT: 5.116 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

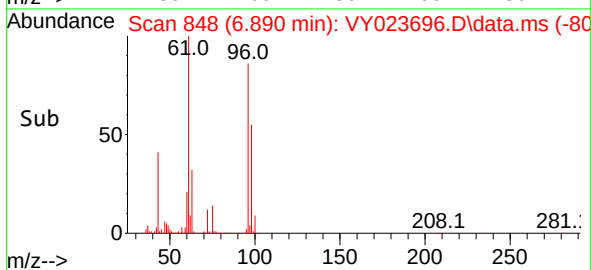
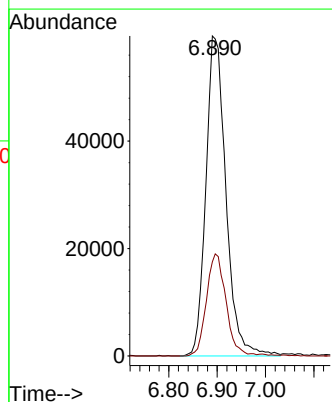
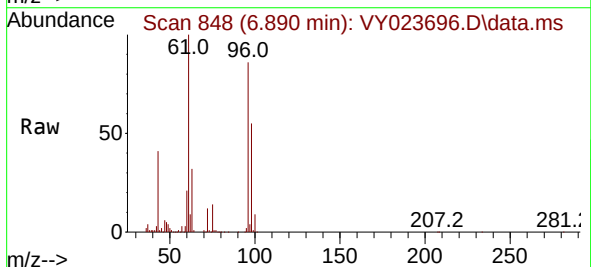
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

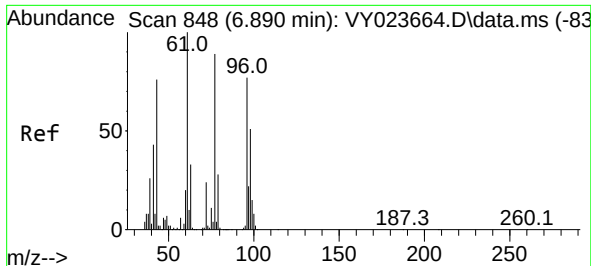
Tgt Ion: 96 Resp: 339439  
Ion Ratio Lower Upper  
96 100  
61 122.9 93.3 139.9  
98 62.8 50.6 75.8



#25  
2-Butanone  
Concen: 131.925 ug/l  
RT: 6.890 min Scan# 848  
Delta R.T. -0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 43 Resp: 171952  
Ion Ratio Lower Upper  
43 100  
72 29.4 25.7 38.5





#27

cis-1,2-Dichloroethene

Concen: 57.952 ug/l

RT: 6.896 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOIL

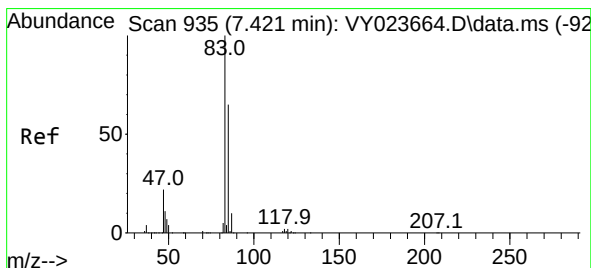
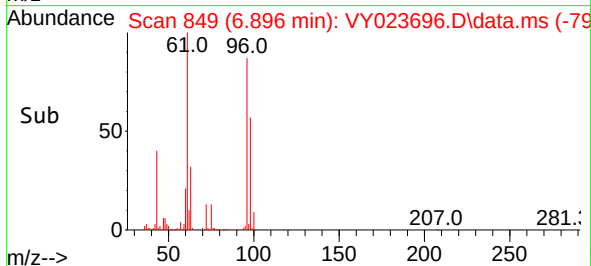
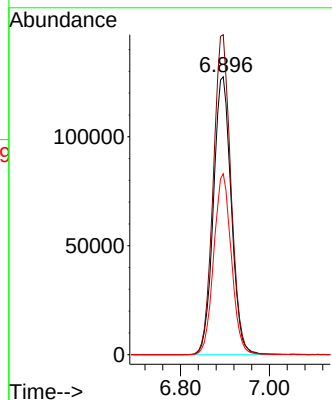
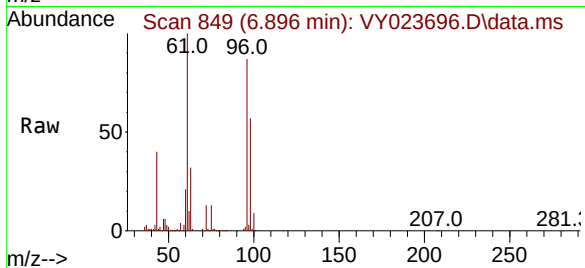
Tgt Ion: 96 Resp: 354504

Ion Ratio Lower Upper

96 100

61 114.1 0.0 255.0

98 64.3 0.0 129.8



#30

Chloroform

Concen: 61.590 ug/l

RT: 7.420 min Scan# 935

Delta R.T. -0.000 min

Lab File: VY023696.D

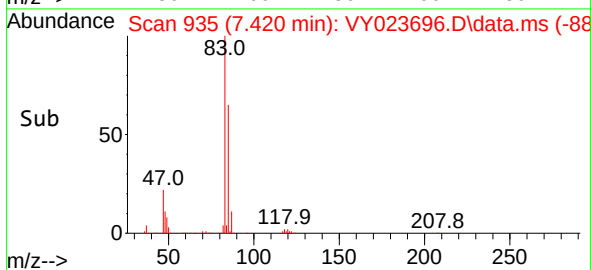
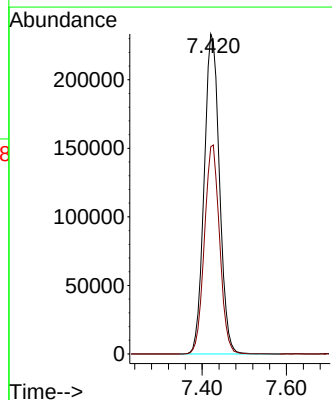
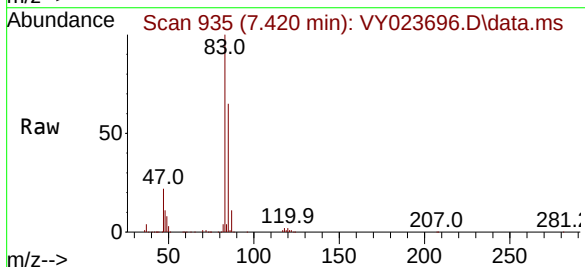
Acq: 06 Nov 2025 10:44

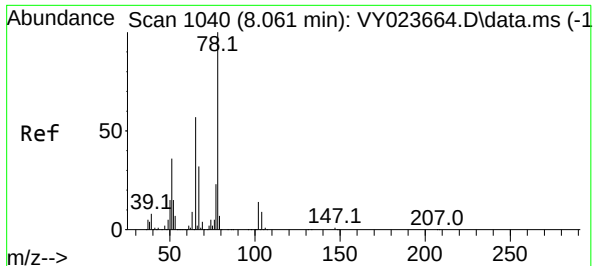
Tgt Ion: 83 Resp: 589811

Ion Ratio Lower Upper

83 100

85 64.7 52.1 78.1





#33

1,2-Dichloroethane-d4

Concen: 50.289 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

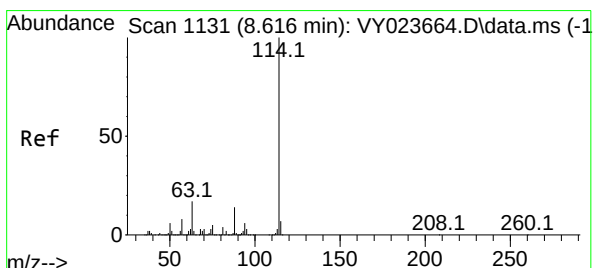
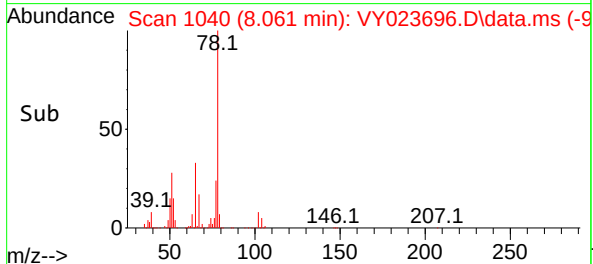
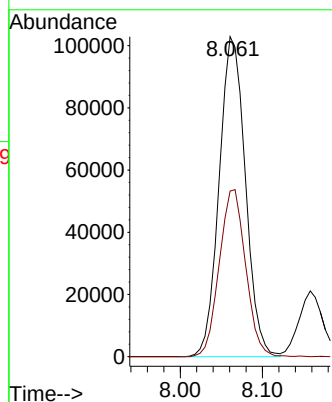
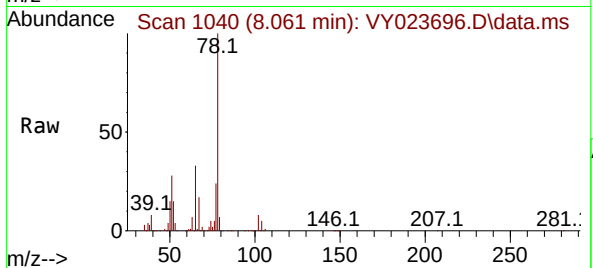
HW1025-PT-VOA-SOIL

Tgt Ion: 65 Resp: 228076

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

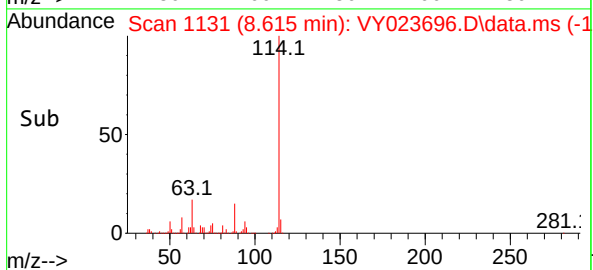
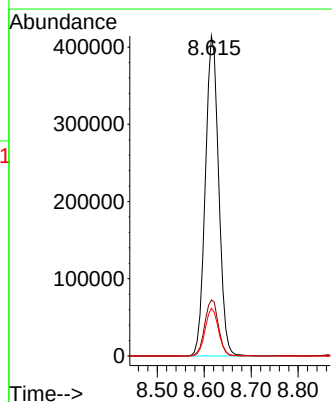
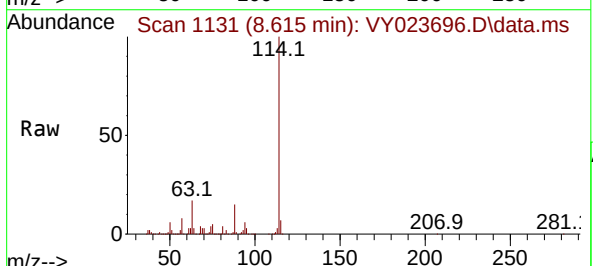
Tgt Ion: 114 Resp: 813455

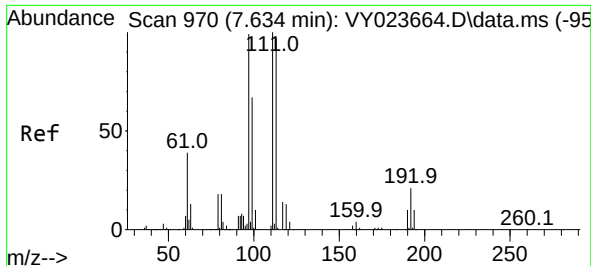
Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.8

88 14.9 0.0 29.0

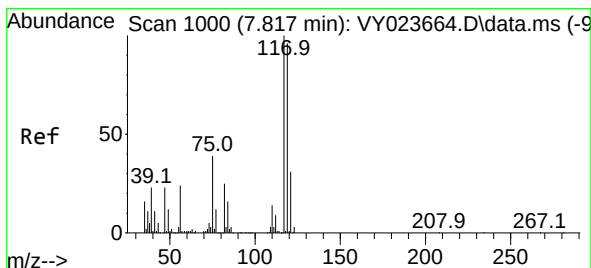
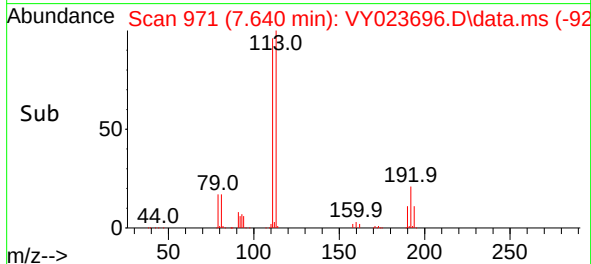
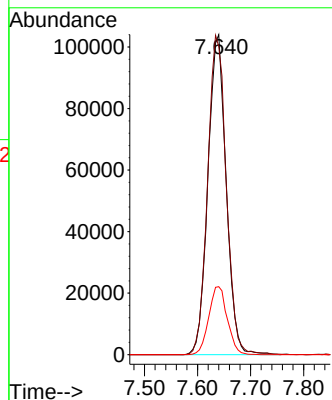
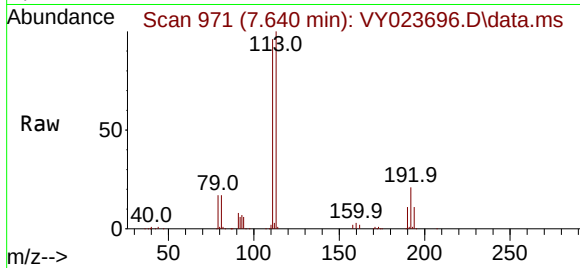




#35  
Dibromofluoromethane  
Concen: 48.881 ug/l  
RT: 7.640 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

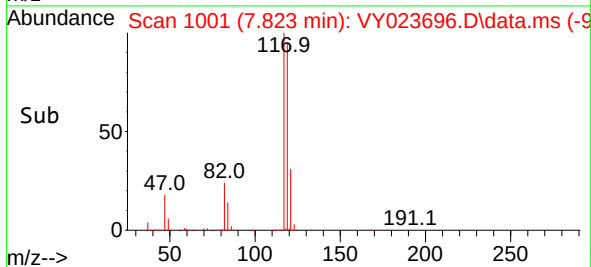
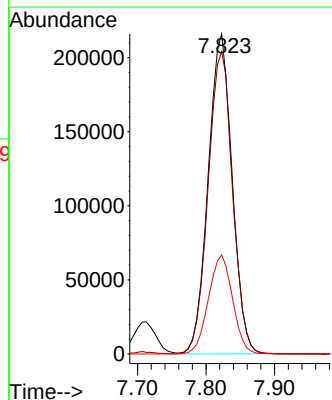
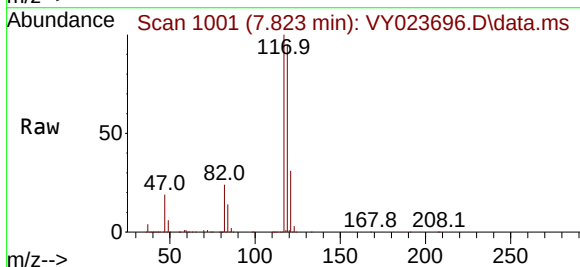
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

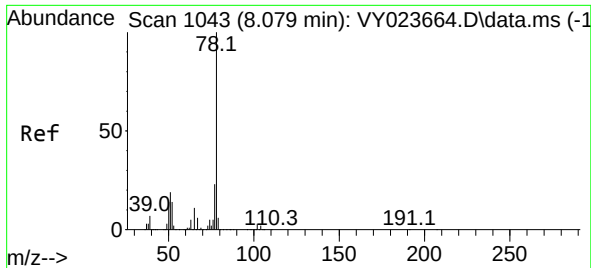
Tgt Ion:113 Resp: 248488  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.4  
192 21.6 17.3 25.9



#38  
Carbon Tetrachloride  
Concen: 65.709 ug/l  
RT: 7.823 min Scan# 1001  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion:117 Resp: 525907  
Ion Ratio Lower Upper  
117 100  
119 94.5 76.3 114.5  
121 31.0 24.8 37.2





#40

Benzene

Concen: 95.351 ug/l

RT: 8.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

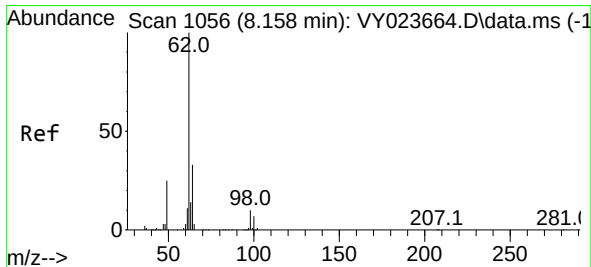
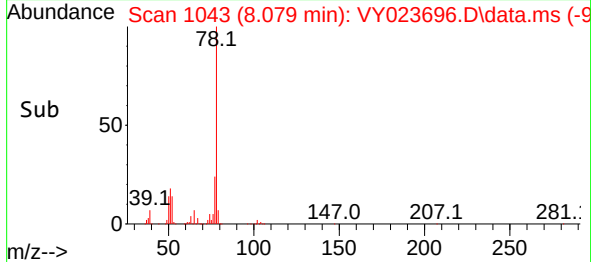
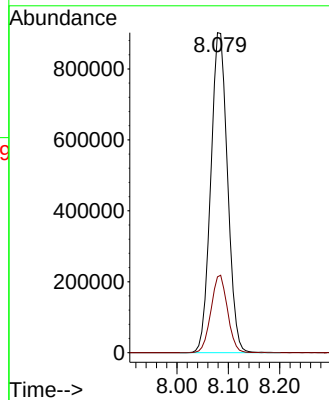
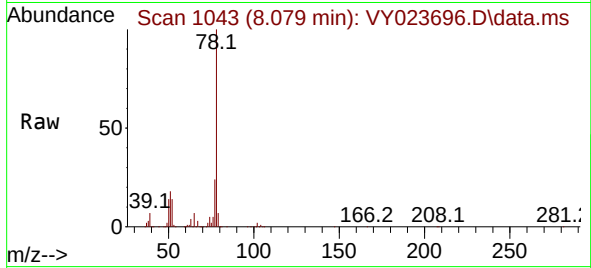
HW1025-PT-VOA-SOIL

Tgt Ion: 78 Resp: 2041641

Ion Ratio Lower Upper

78 100

77 23.7 18.8 28.2



#42

1,2-Dichloroethane

Concen: 187.335 ug/l

RT: 8.158 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VY023696.D

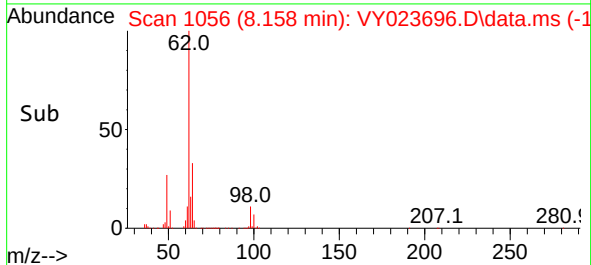
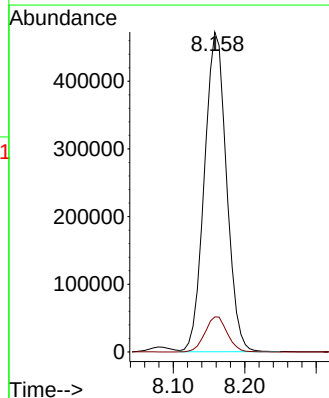
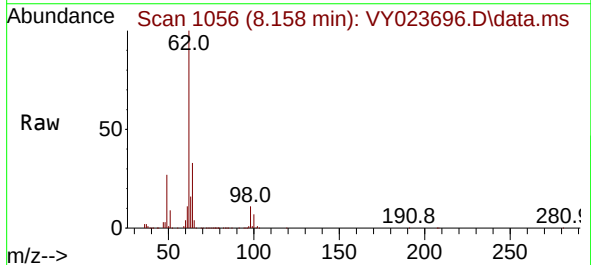
Acq: 06 Nov 2025 10:44

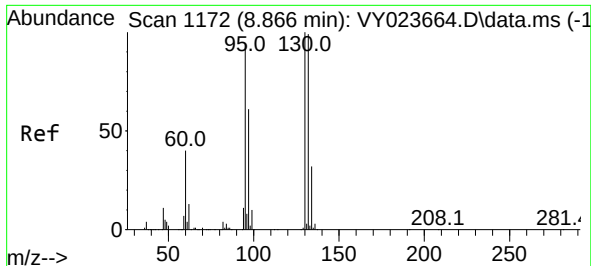
Tgt Ion: 62 Resp: 1014816

Ion Ratio Lower Upper

62 100

98 11.1 0.0 21.0

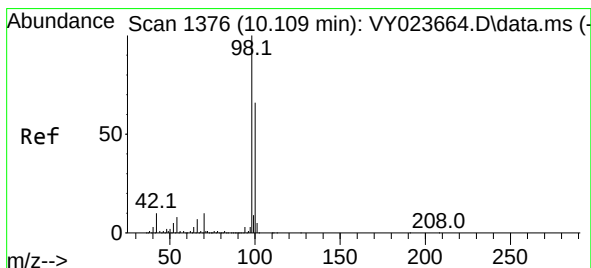
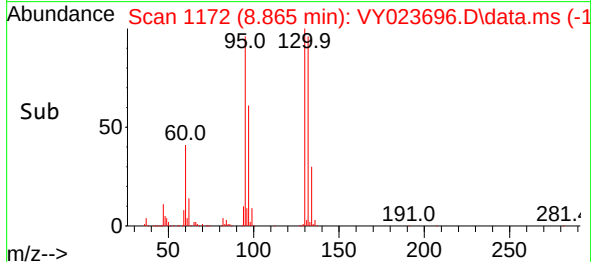
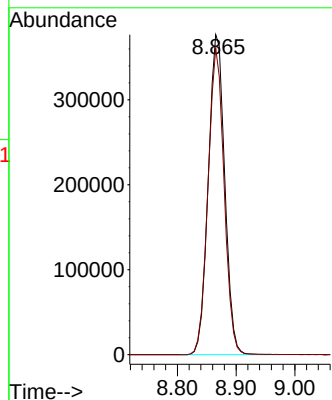
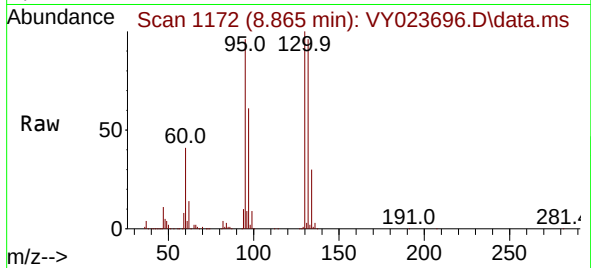




#44  
 Trichloroethene  
 Concen: 119.069 ug/l  
 RT: 8.865 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

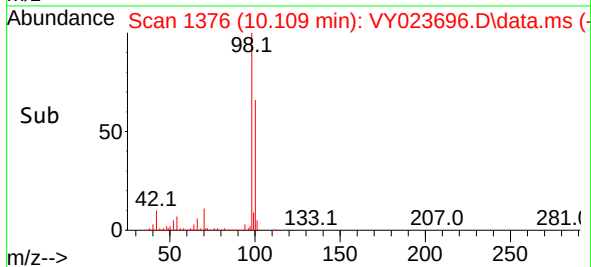
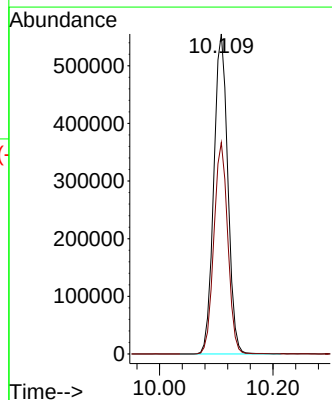
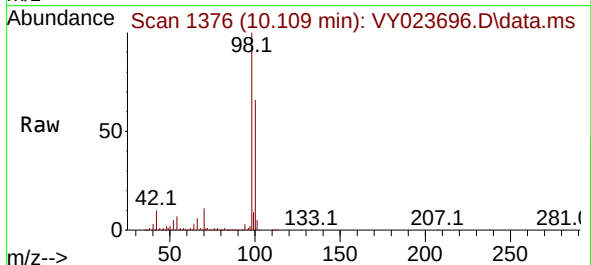
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOIL

Tgt Ion:130 Resp: 732269  
 Ion Ratio Lower Upper  
 130 100  
 95 95.7 0.0 187.0

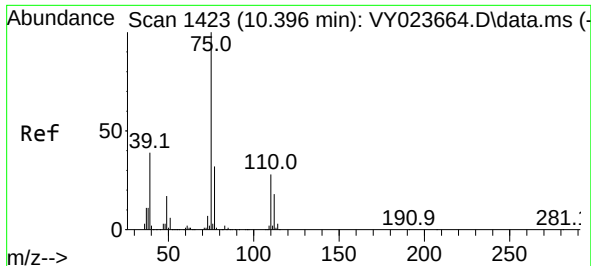


#50  
 Toluene-d8  
 Concen: 50.165 ug/l  
 RT: 10.109 min Scan# 1376  
 Delta R.T. -0.000 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

Tgt Ion: 98 Resp: 949946  
 Ion Ratio Lower Upper  
 98 100  
 100 65.5 52.7 79.1



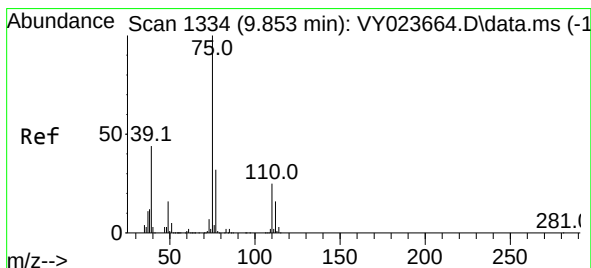
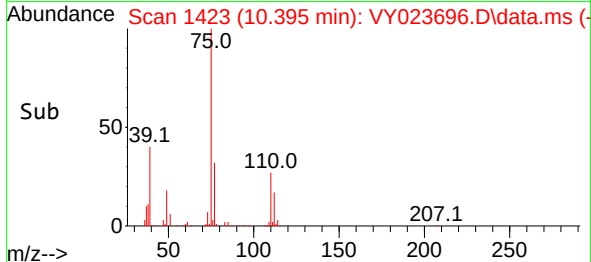
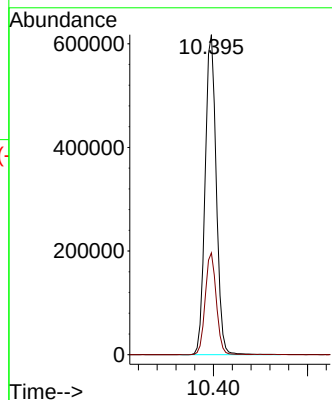
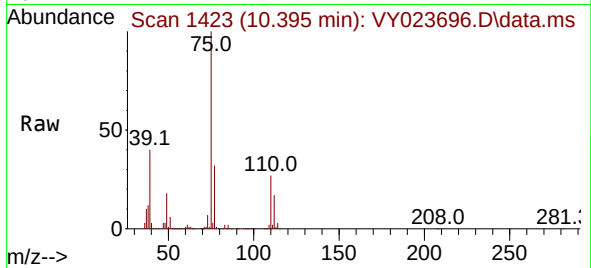




#53  
 t-1,3-Dichloropropene  
 Concen: 162.321 ug/l  
 RT: 10.395 min Scan# 1423  
 Delta R.T. -0.000 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

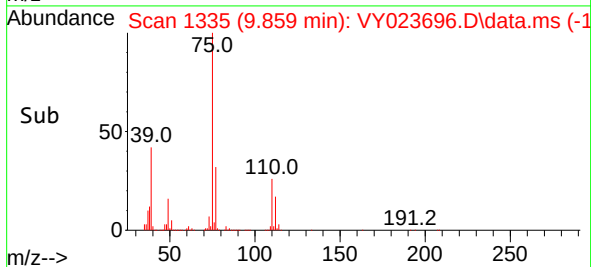
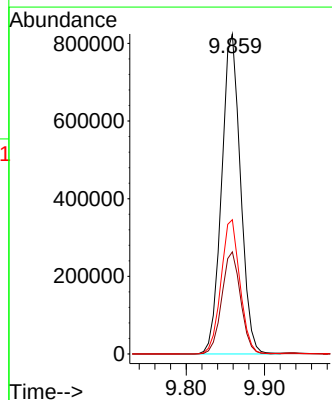
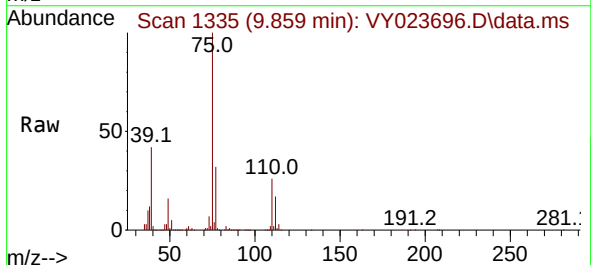
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOIL

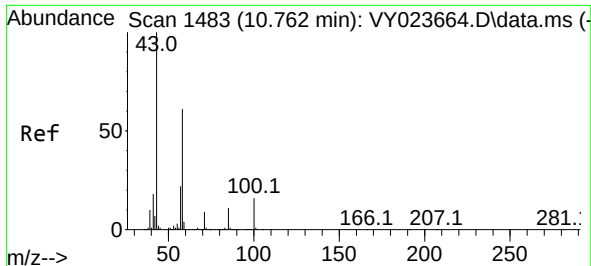
Tgt Ion: 75 Resp: 1013918  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 25.6 38.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 184.780 ug/l  
 RT: 9.859 min Scan# 1335  
 Delta R.T. 0.006 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

Tgt Ion: 75 Resp: 1382853  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 25.7 38.5  
 39 41.9 34.9 52.3

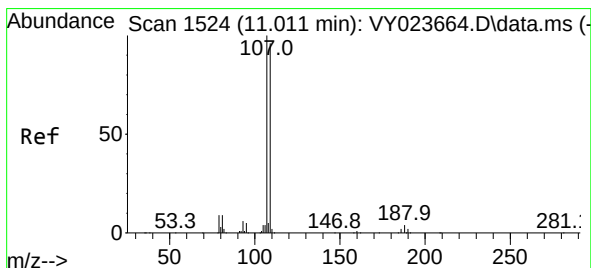
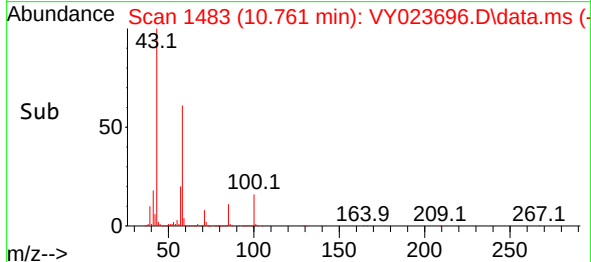
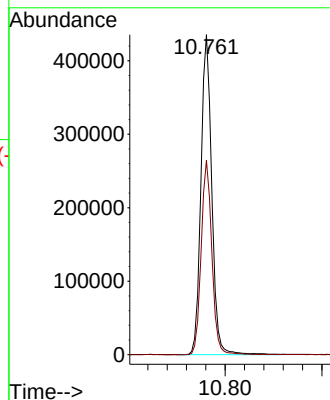
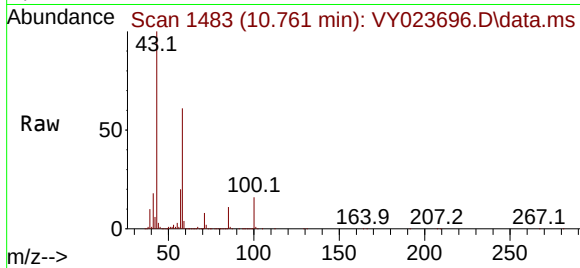




#59  
2-Hexanone  
Concen: 352.236 ug/l  
RT: 10.761 min Scan# 1483  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

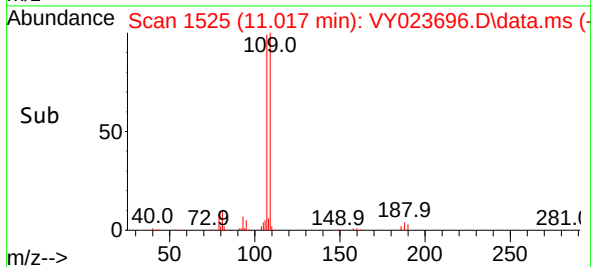
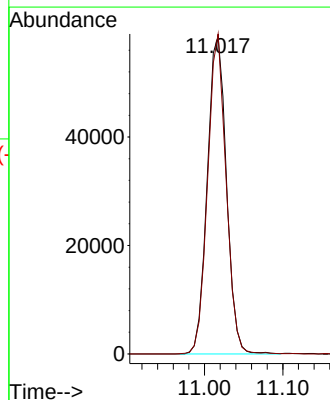
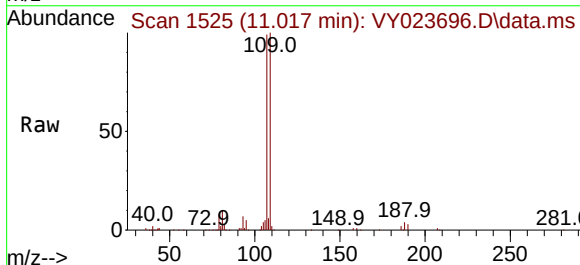
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

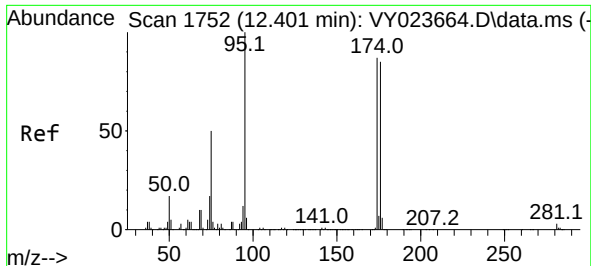
Tgt Ion: 43 Resp: 675252  
Ion Ratio Lower Upper  
43 100  
58 60.1 30.2 90.6



#61  
1,2-Dibromoethane  
Concen: 27.076 ug/l  
RT: 11.017 min Scan# 1525  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 107 Resp: 99431  
Ion Ratio Lower Upper  
107 100  
109 96.8 76.2 114.4

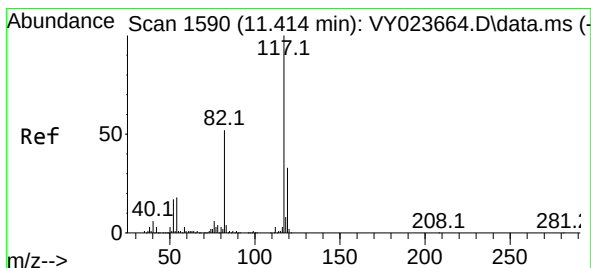
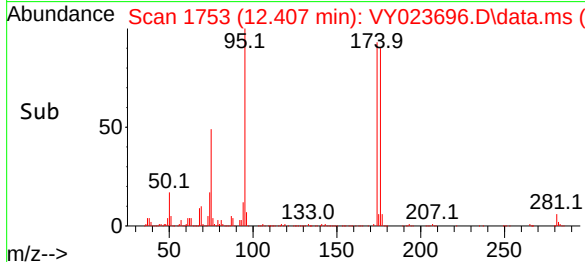
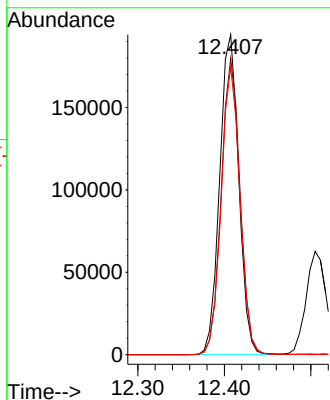
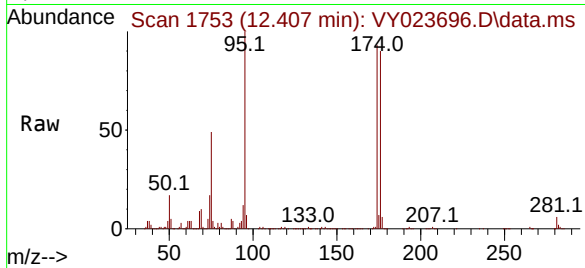




#62  
4-Bromofluorobenzene  
Concen: 48.513 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

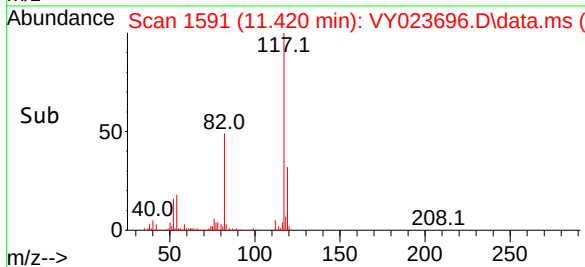
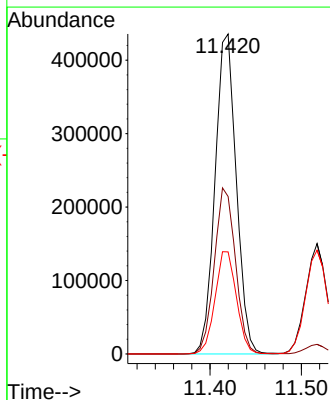
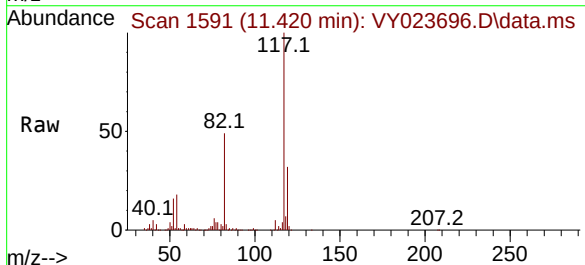
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

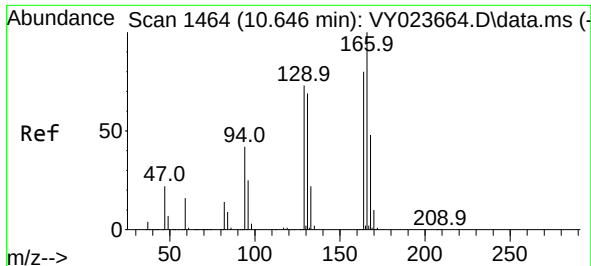
Tgt Ion: 95 Resp: 297087  
Ion Ratio Lower Upper  
95 100  
174 91.7 0.0 184.8  
176 88.1 0.0 181.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 117 Resp: 703875  
Ion Ratio Lower Upper  
117 100  
82 49.2 41.2 61.8  
119 31.9 26.2 39.2

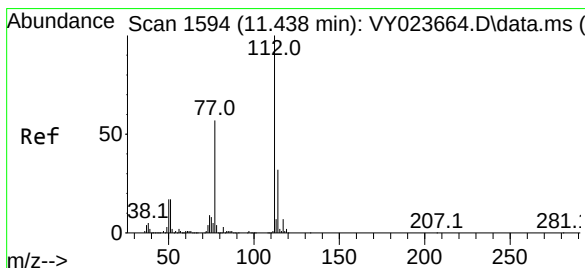
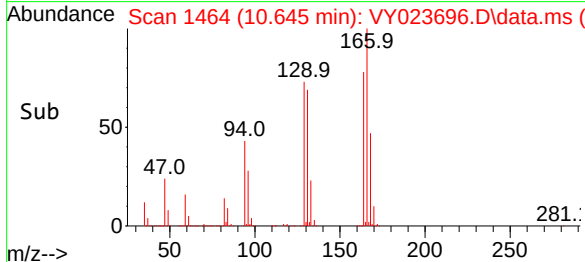
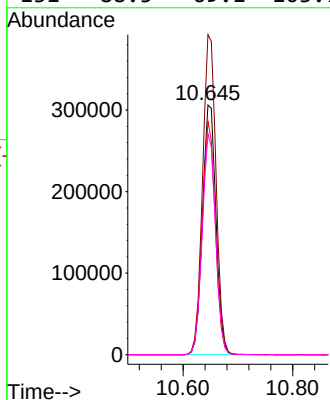
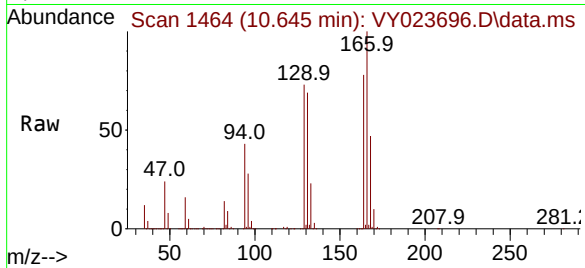




#64  
Tetrachloroethene  
Concen: 71.208 ug/l  
RT: 10.645 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

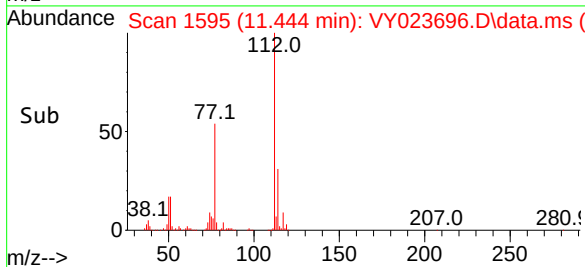
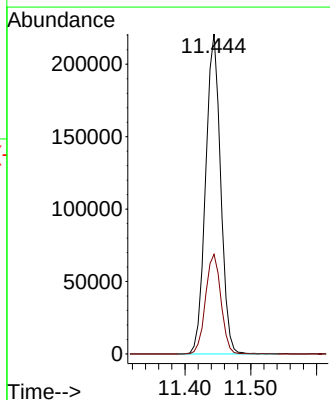
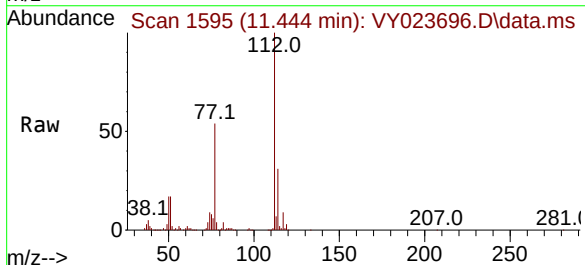
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

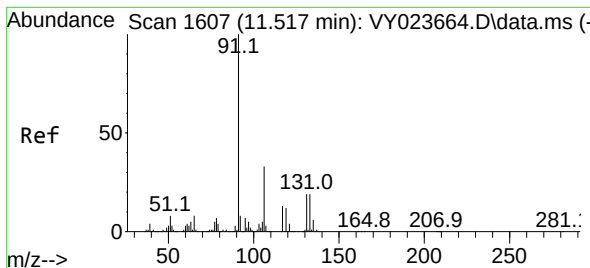
Tgt Ion:164 Resp: 521687  
Ion Ratio Lower Upper  
164 100  
166 128.2 99.5 149.3  
129 93.4 72.3 108.5  
131 88.5 69.1 103.7



#65  
Chlorobenzene  
Concen: 22.886 ug/l  
RT: 11.444 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion:112 Resp: 350689  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.8 38.6

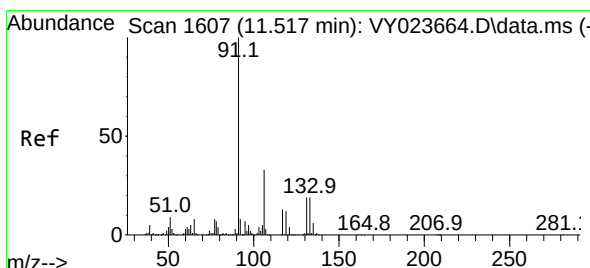
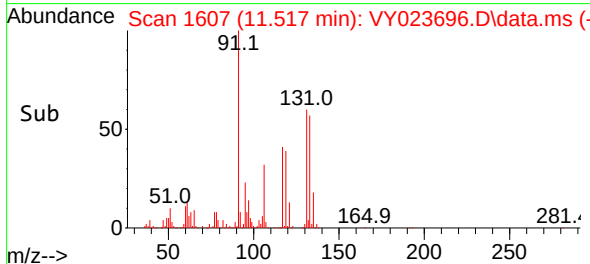
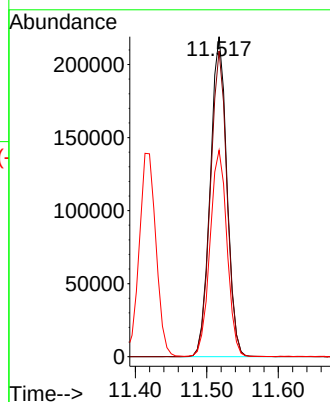
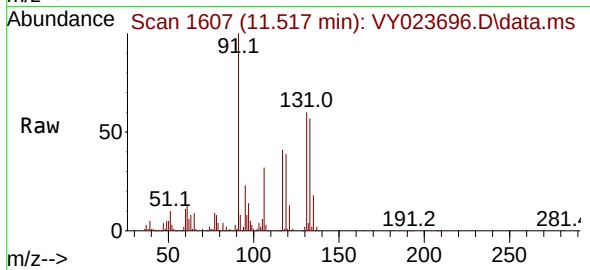




#66  
1,1,1,2-Tetrachloroethane  
Concen: 65.491 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

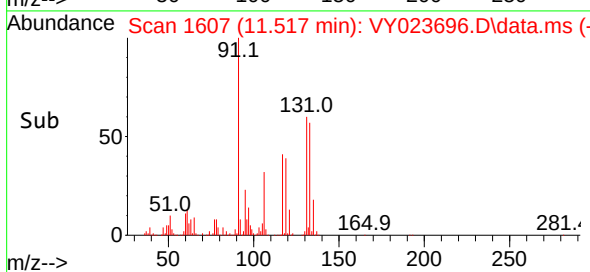
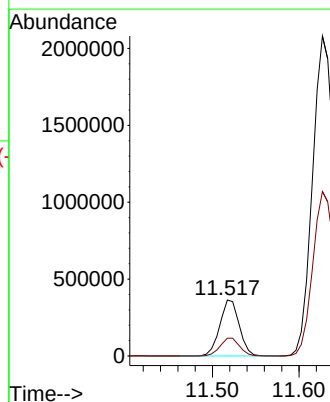
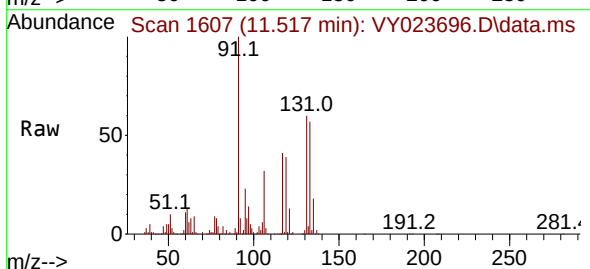
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

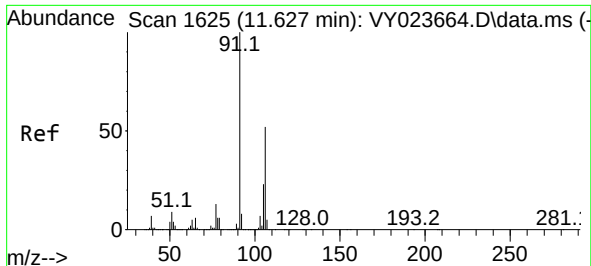
Tgt Ion:131 Resp: 354860  
Ion Ratio Lower Upper  
131 100  
133 94.9 47.3 141.8  
119 65.8 32.5 97.4



#67  
Ethyl Benzene  
Concen: 22.874 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 91 Resp: 567291  
Ion Ratio Lower Upper  
91 100  
106 31.9 26.6 40.0

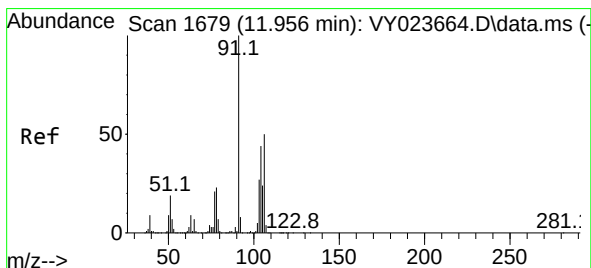
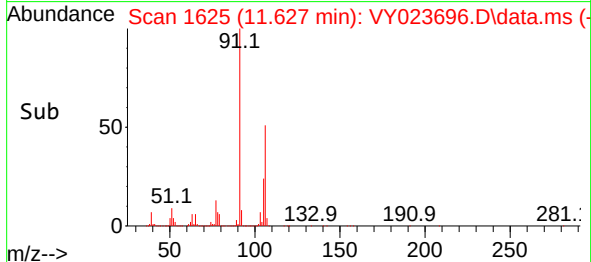
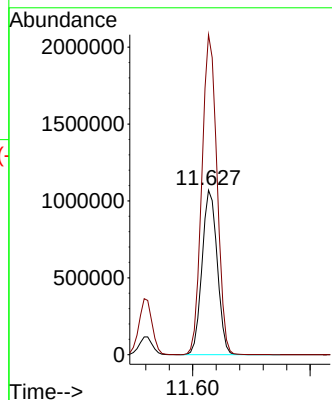
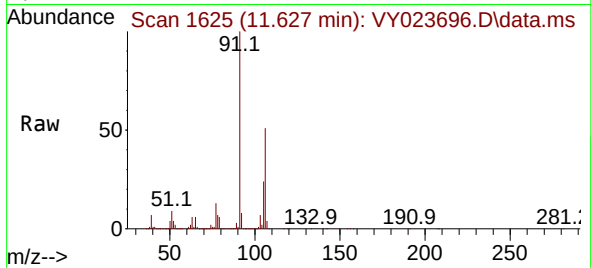




#68  
m/p-Xylenes  
Concen: 193.996 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

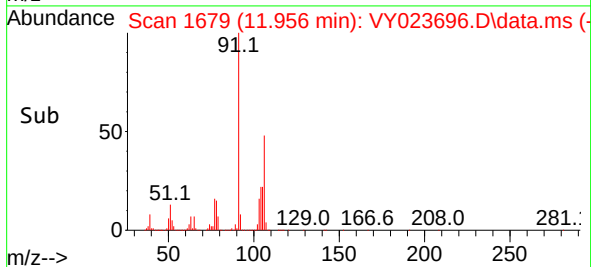
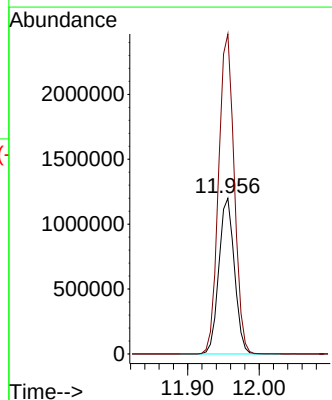
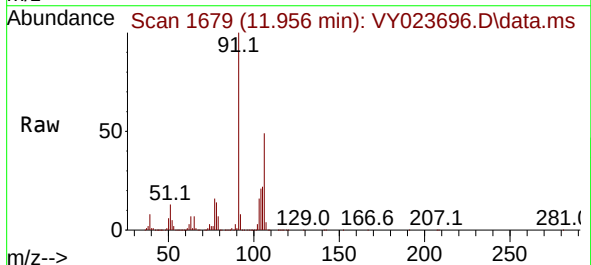
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

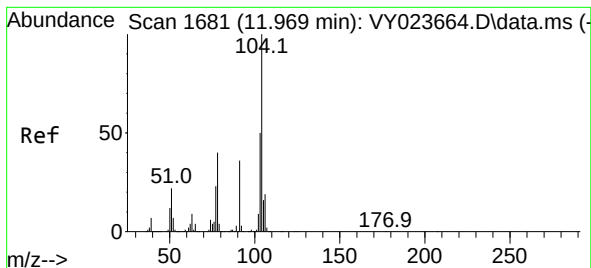
Tgt Ion:106 Resp: 1922231  
Ion Ratio Lower Upper  
106 100  
91 194.0 154.3 231.5



#69  
o-Xylene  
Concen: 197.930 ug/l  
RT: 11.956 min Scan# 1679  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion:106 Resp: 1812923  
Ion Ratio Lower Upper  
106 100  
91 206.5 101.6 304.6





#70

Styrene

Concen: 114.486 ug/l

RT: 11.968 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOIL

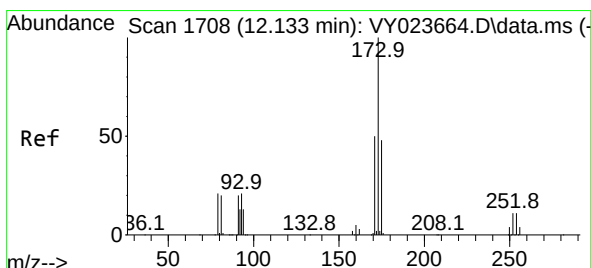
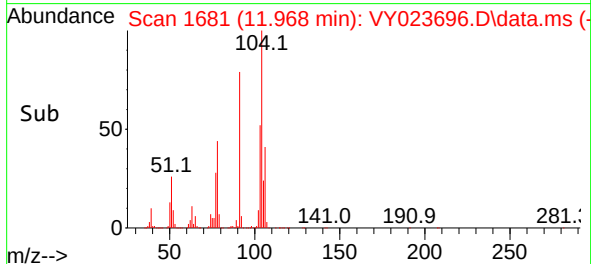
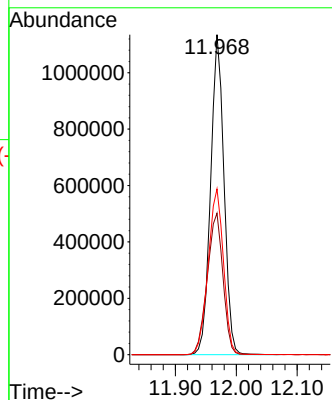
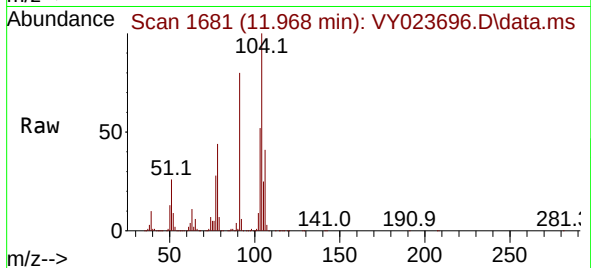
Tgt Ion:104 Resp: 1730175

Ion Ratio Lower Upper

104 100

78 51.9 36.5 54.7

103 59.4 43.7 65.5



#71

Bromoform

Concen: 108.617 ug/l

RT: 12.133 min Scan# 1708

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

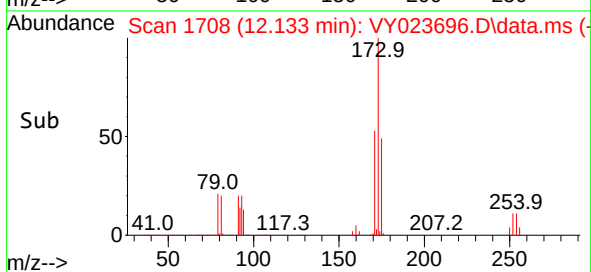
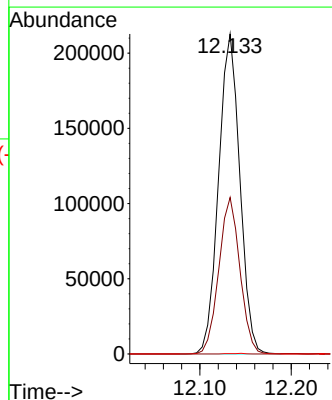
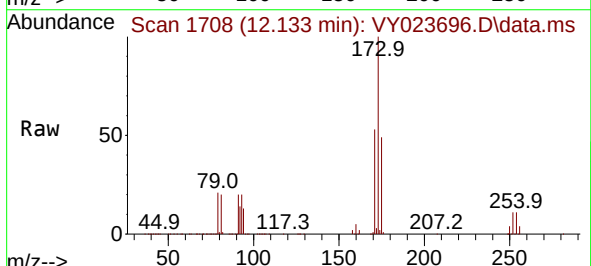
Tgt Ion:173 Resp: 343729

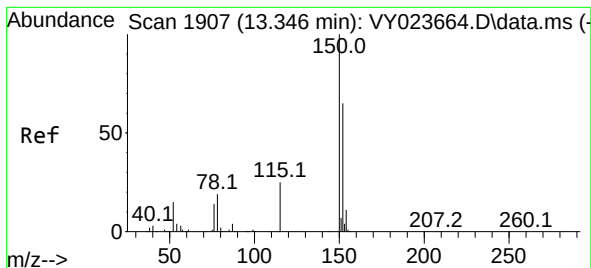
Ion Ratio Lower Upper

173 100

175 48.5 24.2 72.6

254 0.1 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOIL

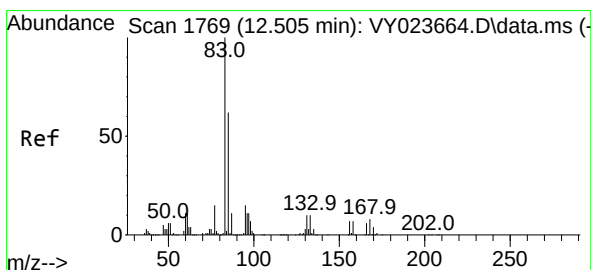
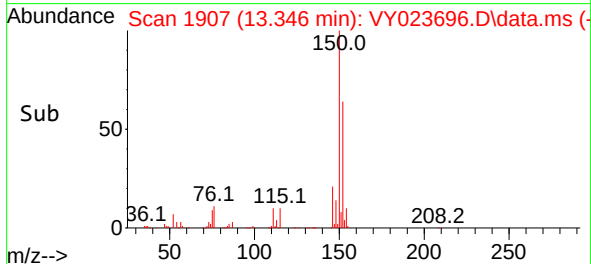
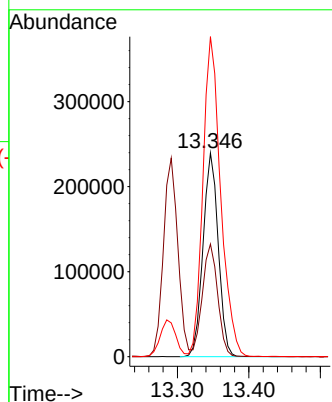
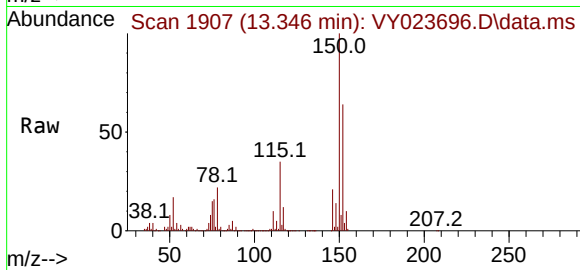
Tgt Ion:152 Resp: 354034

Ion Ratio Lower Upper

152 100

115 55.7 27.5 82.5

150 183.0 0.0 349.0



#75

1,1,2,2-Tetrachloroethane

Concen: 161.343 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

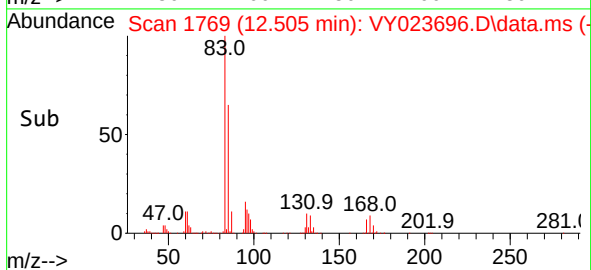
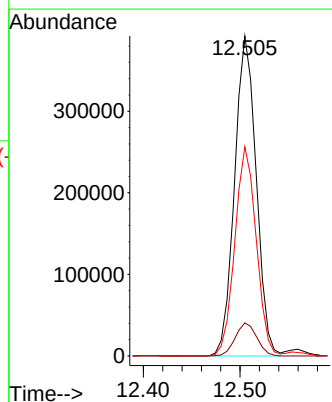
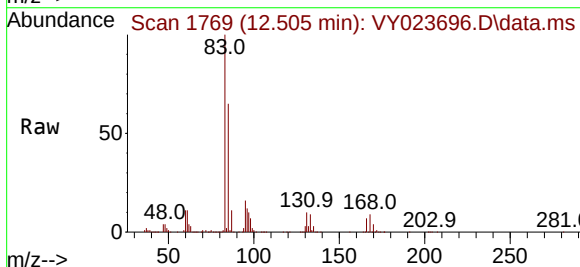
Tgt Ion: 83 Resp: 610157

Ion Ratio Lower Upper

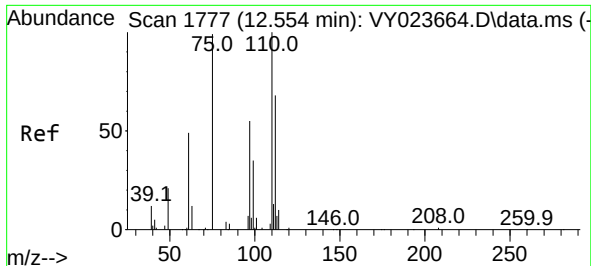
83 100

131 10.3 5.7 17.0

85 64.7 31.9 95.7



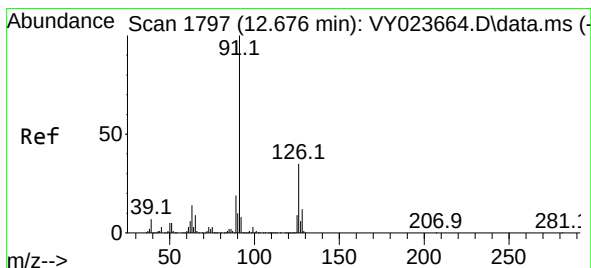
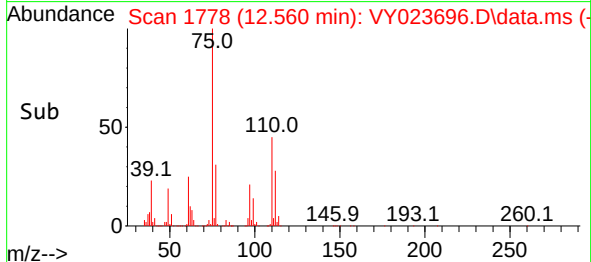
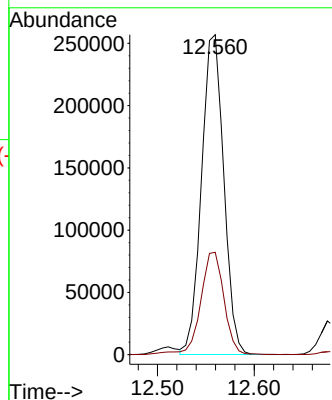
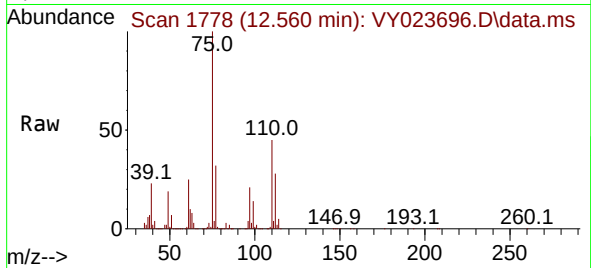




#76  
1,2,3-Trichloropropane  
Concen: 143.400 ug/l  
RT: 12.560 min Scan# 1778  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

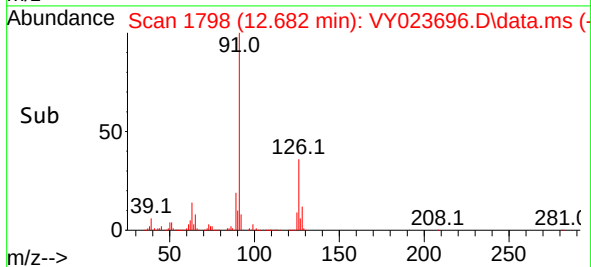
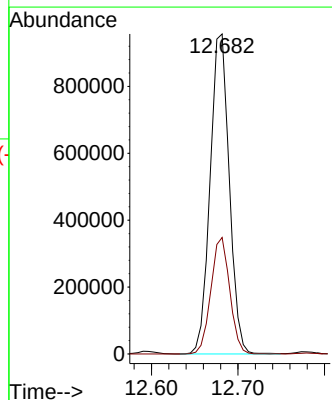
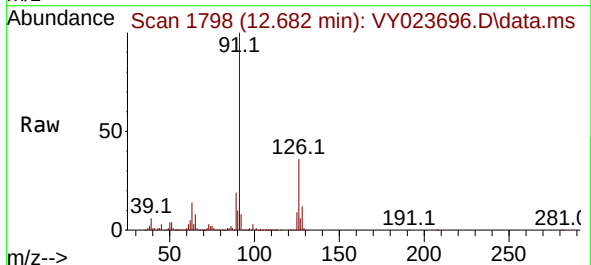
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

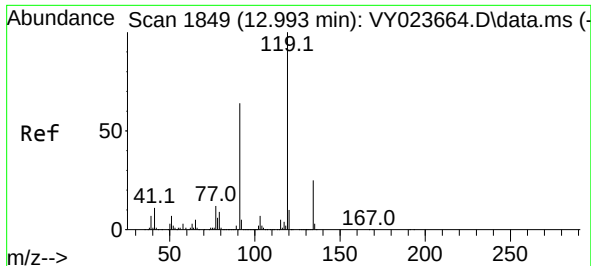
Tgt Ion: 75 Resp: 410876  
Ion Ratio Lower Upper  
75 100  
77 33.7 0.0 0.0#



#79  
2-Chlorotoluene  
Concen: 90.881 ug/l  
RT: 12.682 min Scan# 1798  
Delta R.T. 0.006 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion: 91 Resp: 1468830  
Ion Ratio Lower Upper  
91 100  
126 35.8 18.0 54.0

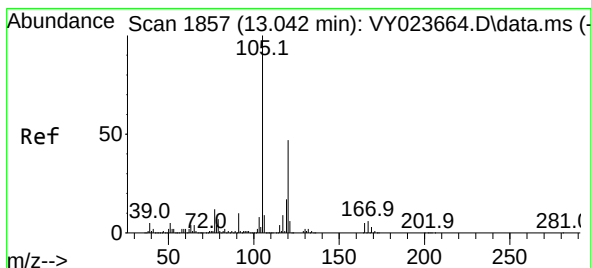
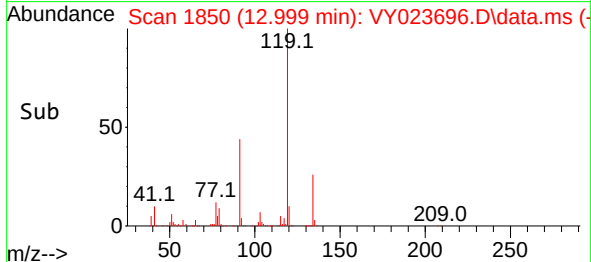
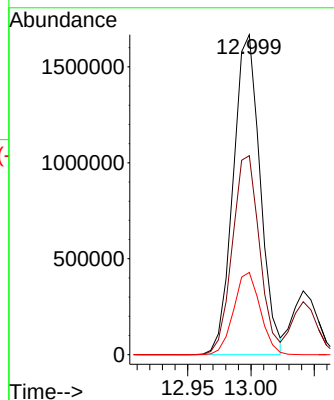
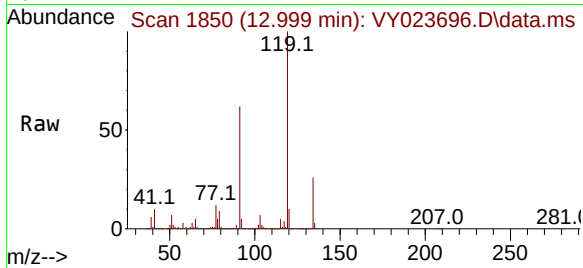




#83  
 tert-Butylbenzene  
 Concen: 141.463 ug/l  
 RT: 12.999 min Scan# 1850  
 Delta R.T. 0.006 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

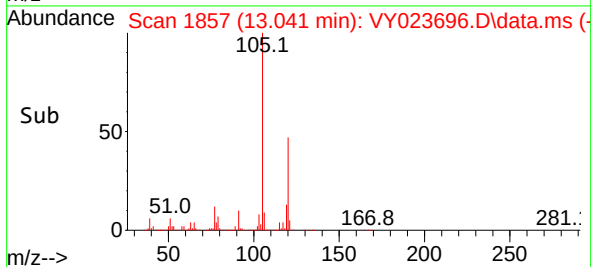
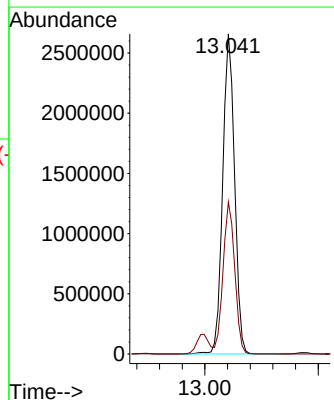
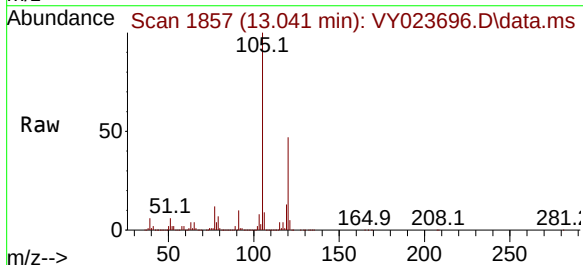
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOIL

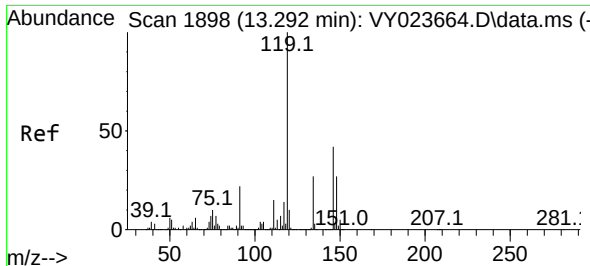
Tgt Ion:119 Resp: 2478715  
 Ion Ratio Lower Upper  
 119 100  
 91 63.1 30.7 92.1  
 134 25.3 13.1 39.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 202.108 ug/l  
 RT: 13.041 min Scan# 1857  
 Delta R.T. -0.000 min  
 Lab File: VY023696.D  
 Acq: 06 Nov 2025 10:44

Tgt Ion:105 Resp: 3851184  
 Ion Ratio Lower Upper  
 105 100  
 120 46.6 23.2 69.6

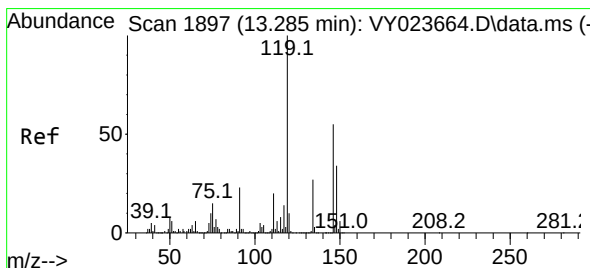
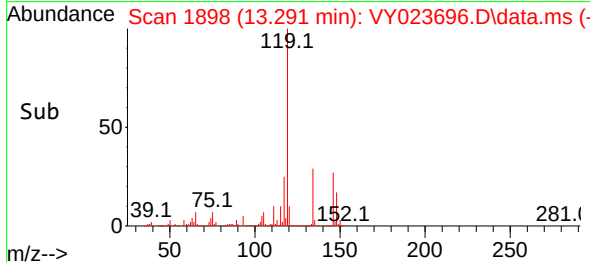
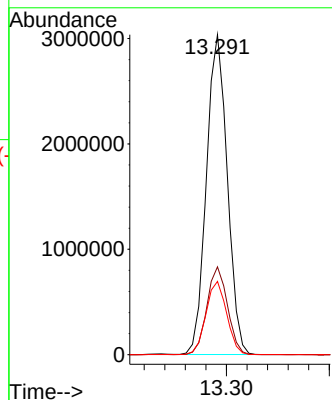
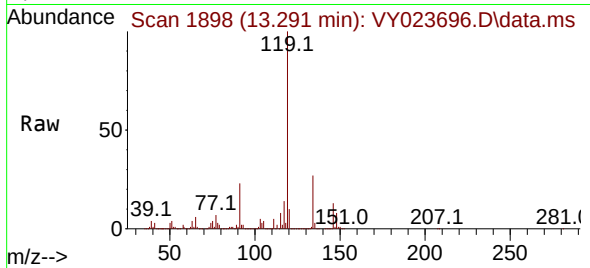




#86  
p-Isopropyltoluene  
Concen: 199.958 ug/l  
RT: 13.291 min Scan# 1898  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

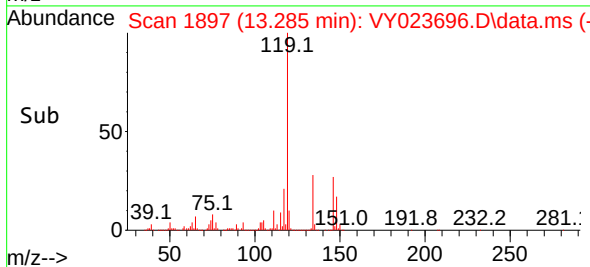
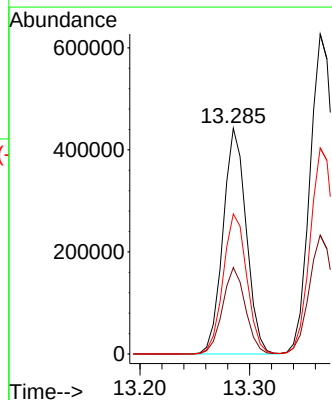
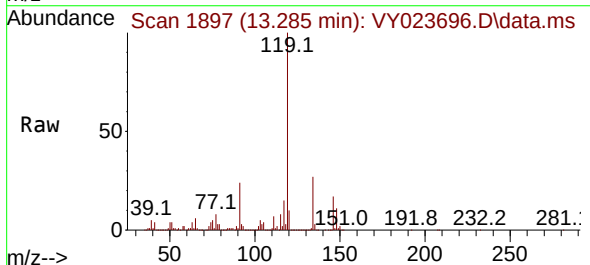
Instrument : MSVOA\_Y  
ClientSampleId : HW1025-PT-VOA-SOIL

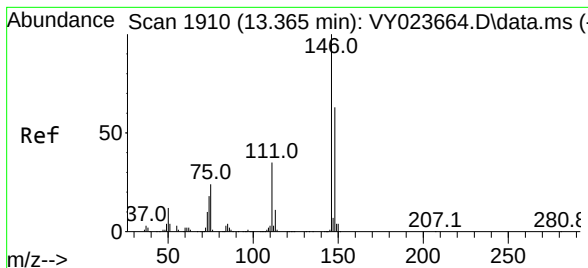
Tgt Ion:119 Resp: 4278014  
Ion Ratio Lower Upper  
119 100  
134 27.1 13.4 40.2  
91 22.7 11.1 33.1



#87  
1,3-Dichlorobenzene  
Concen: 53.803 ug/l  
RT: 13.285 min Scan# 1897  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Tgt Ion:146 Resp: 650411  
Ion Ratio Lower Upper  
146 100  
111 37.7 18.8 56.3  
148 63.3 31.9 95.5





#88

1,4-Dichlorobenzene

Concen: 81.494 ug/l

RT: 13.364 min Scan# 1910

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOIL

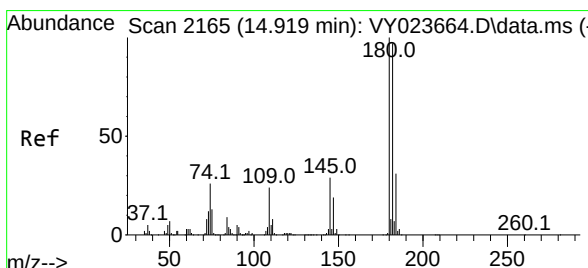
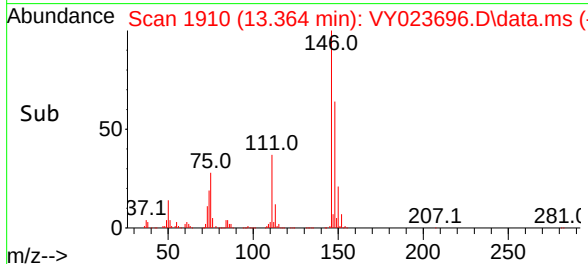
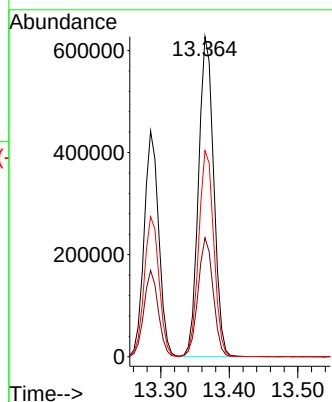
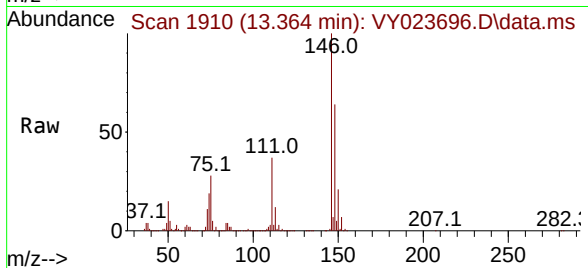
Tgt Ion:146 Resp: 967739

Ion Ratio Lower Upper

146 100

111 36.8 18.3 54.8

148 64.1 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 159.556 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. -0.000 min

Lab File: VY023696.D

Acq: 06 Nov 2025 10:44

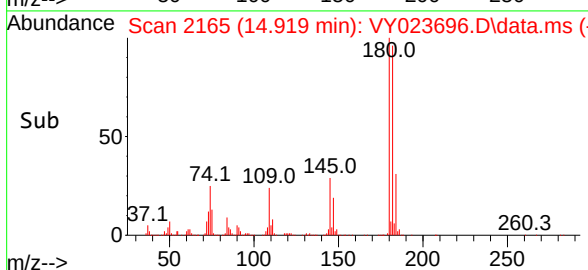
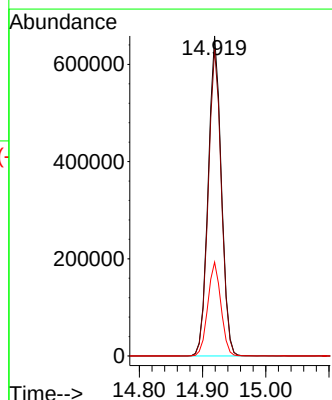
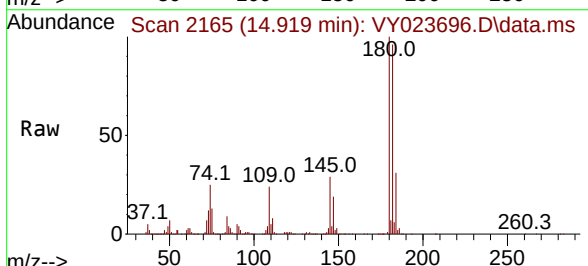
Tgt Ion:180 Resp: 950793

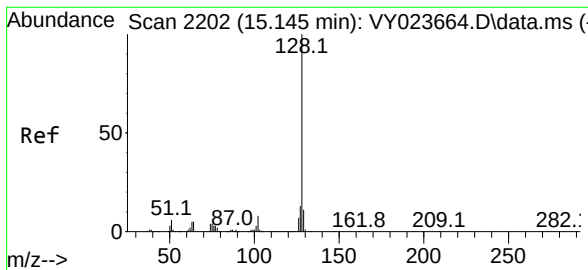
Ion Ratio Lower Upper

180 100

182 95.7 47.5 142.6

145 29.3 14.4 43.4

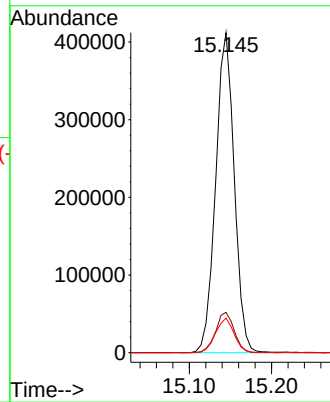
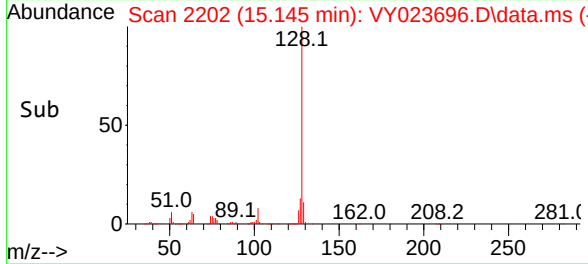
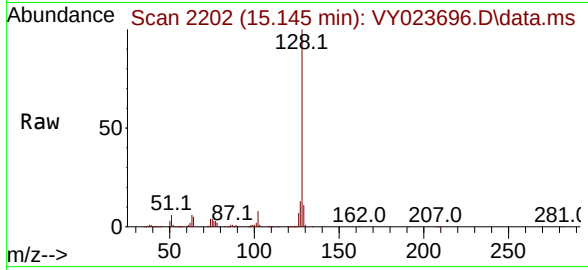




#95  
Naphthalene  
Concen: 60.753 ug/l  
RT: 15.145 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY023696.D  
Acq: 06 Nov 2025 10:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOIL

Tgt Ion:128 Resp: 646088  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.5 15.7  
129 10.8 8.8 13.2



### Report of Analysis

Client: Alliance Technical Group, LLC - Newark  
 Project: NJ Soil PT  
 Client Sample ID: HW1025-PT-VOA-SOILDI  
 Lab Sample ID: Q3483-23DL  
 Analytical Method: 8260D  
 Sample Wt/Vol: 5 g

Level: LOW  
 Final Vol: 5000 uL

Date Collected: 10/27/25  
 Date Received: 10/29/25  
 SDG No.: Q3483  
 Matrix: SOIL  
 % Solid: 100  
 Test: VOCMS Group1

| CAS Number     | Parameter                      | Conc. | Qua. | DF   | MDL  | LOQ / CRQL | Units          | Date Ana.      | BatchID  |
|----------------|--------------------------------|-------|------|------|------|------------|----------------|----------------|----------|
| <b>TARGETS</b> |                                |       |      |      |      |            |                |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 4.60  | UD   | 4    | 4.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 74-87-3        | Chloromethane                  | 4.60  | UD   | 4    | 4.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-01-4        | Vinyl Chloride                 | 3.20  | UD   | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 141-78-6       | Ethyl Acetate                  | 5.20  | UD   | 4    | 5.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 108-21-4       | Isopropyl Acetate              | 3.60  | UD   | 4    | 3.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 74-83-9        | Bromomethane                   | 4.30  | UD   | 4    | 4.30 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-00-3        | Chloroethane                   | 5.00  | UD   | 4    | 5.00 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 109-99-9       | Tetrahydrofuran                | 18.7  | UDQ4 | 18.7 | 100  | ug/Kg      | 11/06/25 11:40 | VY110625       |          |
| 75-69-4        | Trichlorofluoromethane         | 4.80  | UD   | 4    | 4.80 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 4.20  | UD   | 4    | 4.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-65-0        | Tert butyl alcohol             | 54.8  | UD   | 4    | 54.8 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 60-29-7        | Diethyl Ether                  | 3.10  | UD   | 4    | 3.10 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-35-4        | 1,1-Dichloroethene             | 96.9  | D    | 4    | 4.00 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 107-02-8       | Acrolein                       | 35.2  | UD   | 4    | 35.2 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 107-13-1       | Acrylonitrile                  | 19.9  | UD   | 4    | 19.9 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 67-64-1        | Acetone                        | 330   | D    | 4    | 19.0 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-15-0        | Carbon Disulfide               | 4.20  | UD   | 4    | 4.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 1634-04-4      | Methyl tert-butyl Ether        | 78.1  | D    | 4    | 2.90 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 79-20-9        | Methyl Acetate                 | 6.20  | UD   | 4    | 6.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-09-2        | Methylene Chloride             | 14.1  | UD   | 4    | 14.1 | 40.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 62.1  | D    | 4    | 3.40 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 108-05-4       | Vinyl Acetate                  | 19.4  | UD   | 4    | 19.4 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-34-3        | 1,1-Dichloroethane             | 3.20  | UD   | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 110-82-7       | Cyclohexane                    | 3.20  | UD   | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 78-93-3        | 2-Butanone                     | 130   | D    | 4    | 26.2 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 56-23-5        | Carbon Tetrachloride           | 62.9  | D    | 4    | 3.90 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 594-20-7       | 2,2-Dichloropropane            | 5.10  | UD   | 4    | 5.10 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 56.2  | D    | 4    | 3.00 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 74-97-5        | Bromochloromethane             | 4.60  | UD   | 4    | 4.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 67-66-3        | Chloroform                     | 63.8  | D    | 4    | 3.40 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 3.70  | UD   | 4    | 3.70 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 108-87-2       | Methylcyclohexane              | 3.60  | UD   | 4    | 3.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 563-58-6       | 1,1-Dichloropropene            | 3.50  | UD   | 4    | 3.50 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 71-43-2        | Benzene                        | 92.2  | D    | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 107-06-2       | 1,2-Dichloroethane             | 190   | D    | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 79-01-6        | Trichloroethene                | 120   | D    | 4    | 3.20 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 78-87-5        | 1,2-Dichloropropane            | 3.60  | UD   | 4    | 3.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 74-95-3        | Dibromomethane                 | 3.60  | UD   | 4    | 3.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 75-27-4        | Bromodichloromethane           | 3.10  | UD   | 4    | 3.10 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 14.3  | UD   | 4    | 14.3 | 100        | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 80-62-6        | Methyl methacrylate            | 3.00  | UD   | 4    | 3.00 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 108-88-3       | Toluene                        | 3.10  | UD   | 4    | 3.10 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 150   | D    | 4    | 2.60 | 20.0       | ug/Kg          | 11/06/25 11:40 | VY110625 |



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

## Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: HW1025-PT-VOA-SOILDI

Lab Sample ID: Q3483-23DL

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected: 10/27/25

Date Received: 10/29/25

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number  | Parameter                   | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|-------------|-----------------------------|-------|------|----|------|------------|-------|----------------|----------|
| 10061-01-5  | cis-1,3-Dichloropropene     | 170   | D    | 4  | 2.50 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 79-00-5     | 1,1,2-Trichloroethane       | 3.70  | UD   | 4  | 3.70 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 142-28-9    | 1,3-Dichloropropane         | 2.70  | UD   | 4  | 2.70 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 110-75-8    | 2-Chloroethyl Vinyl ether   | 15.0  | UD   | 4  | 15.0 | 100        | ug/Kg | 11/06/25 11:40 | VY110625 |
| 591-78-6    | 2-Hexanone                  | 310   | D    | 4  | 14.8 | 100        | ug/Kg | 11/06/25 11:40 | VY110625 |
| 124-48-1    | Dibromochloromethane        | 3.50  | UD   | 4  | 3.50 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 106-93-4    | 1,2-Dibromoethane           | 27.0  | D    | 4  | 3.50 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 127-18-4    | Tetrachloroethene           | 68.1  | D    | 4  | 4.20 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 108-90-7    | Chlorobenzene               | 22.3  | D    | 4  | 3.60 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane   | 64.1  | D    | 4  | 3.10 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 67-72-1     | Hexachloroethane            | 4.20  | UD   | 4  | 4.20 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 100-41-4    | Ethyl Benzene               | 20.6  | D    | 4  | 2.70 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 179601-23-1 | m/p-Xylenes                 | 180   | D    | 4  | 5.00 | 40.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 1330-20-7   | Total Xylenes               | 360   | D    | 4  | 8.30 | 60.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 95-47-6     | o-Xylene                    | 180   | D    | 4  | 3.30 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 100-42-5    | Styrene                     | 110   | D    | 4  | 2.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 75-25-2     | Bromoform                   | 110   | D    | 4  | 3.40 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 98-82-8     | Isopropylbenzene            | 3.10  | UD   | 4  | 3.10 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane   | 160   | D    | 4  | 4.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 96-18-4     | 1,2,3-Trichloropropane      | 140   | D    | 4  | 5.00 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 108-86-1    | Bromobenzene                | 4.80  | UD   | 4  | 4.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 103-65-1    | n-propylbenzene             | 2.90  | UD   | 4  | 2.90 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 95-49-8     | 2-Chlorotoluene             | 79.3  | D    | 4  | 2.70 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 108-67-8    | 1,3,5-Trimethylbenzene      | 3.30  | UD   | 4  | 3.30 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 106-43-4    | 4-Chlorotoluene             | 4.90  | UD   | 4  | 4.90 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 98-06-6     | tert-Butylbenzene           | 120   | D    | 4  | 2.70 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 95-63-6     | 1,2,4-Trimethylbenzene      | 190   | D    | 4  | 2.60 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 135-98-8    | sec-Butylbenzene            | 2.60  | UD   | 4  | 2.60 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 99-87-6     | p-Isopropyltoluene          | 170   | D    | 4  | 2.50 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 541-73-1    | 1,3-Dichlorobenzene         | 49.5  | D    | 4  | 6.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 106-46-7    | 1,4-Dichlorobenzene         | 78.2  | D    | 4  | 6.20 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 104-51-8    | n-Butylbenzene              | 5.80  | UD   | 4  | 5.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 95-50-1     | 1,2-Dichlorobenzene         | 5.80  | UD   | 4  | 5.80 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 96-12-8     | 1,2-Dibromo-3-Chloropropane | 7.40  | UD   | 4  | 7.40 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 120-82-1    | 1,2,4-Trichlorobenzene      | 130   | D    | 4  | 11.9 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 87-68-3     | Hexachlorobutadiene         | 7.60  | UD   | 4  | 7.60 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 91-20-3     | Naphthalene                 | 62.6  | D    | 4  | 10.3 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 87-61-6     | 1,2,3-Trichlorobenzene      | 12.7  | UD   | 4  | 12.7 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 628-63-7    | N-amyl acetate              | 3.90  | UD   | 4  | 3.90 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 74-88-4     | Methyl Iodide               | 3.60  | UD   | 4  | 3.60 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 107-05-1    | Allyl chloride              | 3.10  | UD   | 4  | 3.10 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 110-57-6    | trans-1,4-Dichloro-2-butene | 4.20  | UD   | 4  | 4.20 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |
| 126-98-7    | Methacrylonitrile           | 7.00  | UD   | 4  | 7.00 | 20.0       | ug/Kg | 11/06/25 11:40 | VY110625 |



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## Report of Analysis

|                    |                                        |                 |              |
|--------------------|----------------------------------------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: | 10/27/25     |
| Project:           | NJ Soil PT                             | Date Received:  | 10/29/25     |
| Client Sample ID:  | HW1025-PT-VOA-SOILDI                   | SDG No.:        | Q3483        |
| Lab Sample ID:     | Q3483-23DL                             | Matrix:         | SOIL         |
| Analytical Method: | 8260D                                  | % Solid:        | 100          |
| Sample Wt/Vol:     | 5 g                                    | Test:           | VOCMS Group1 |
|                    | Level: LOW                             |                 |              |
|                    | Final Vol: 5000 uL                     |                 |              |

| CAS Number                | Parameter              | Conc.             | Qua. | DF | MDL      | LOQ / CRQL | Units   | Date Ana.      | BatchID  |
|---------------------------|------------------------|-------------------|------|----|----------|------------|---------|----------------|----------|
| 108-20-3                  | Diisopropyl ether      | 2.20              | UD   | 4  | 2.20     | 20.0       | ug/Kg   | 11/06/25 11:40 | VY110625 |
| 123-91-1                  | 1,4-Dioxane            | 190               | UD   | 4  | 190      | 400        | ug/Kg   | 11/06/25 11:40 | VY110625 |
| <b>SURROGATES</b>         |                        |                   |      |    |          |            |         |                |          |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 52.0              |      |    | 63 - 155 | 104%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 48.8              |      |    | 70 - 134 | 98%        | SPK: 50 |                |          |
| 2037-26-5                 | Toluene-d8             | 49.0              |      |    | 74 - 123 | 98%        | SPK: 50 |                |          |
| 460-00-4                  | 4-Bromofluorobenzene   | 47.3              |      |    | 17 - 146 | 95%        | SPK: 50 |                |          |
| <b>INTERNAL STANDARDS</b> |                        |                   |      |    |          |            |         |                |          |
|                           |                        | <b>Area Count</b> |      |    |          |            |         |                |          |
| 363-72-4                  | Pentafluorobenzene     | 526000            |      |    |          |            |         |                |          |
| 540-36-3                  | 1,4-Difluorobenzene    | 838000            |      |    |          |            |         |                |          |
| 3114-55-4                 | Chlorobenzene-d5       | 725000            |      |    |          |            |         |                |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 375000            |      |    |          |            |         |                |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023698.D  
 Acq On : 06 Nov 2025 11:40  
 Operator : SY/MD  
 Sample : Q3483-23DL 4X  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILDL

Quant Time: Nov 07 04:15:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 7.713          | 168  | 525542              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616          | 114  | 837737              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.420         | 117  | 724701              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347         | 152  | 374577              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061          | 65   | 232911              | 51.955 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 103.920% |        |        |          |
| 35) Dibromofluoromethane      | 7.634          | 113  | 255382              | 48.781 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 97.560%  |        |        |          |
| 50) Toluene-d8                | 10.109         | 98   | 955572              | 48.999 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 134 |      | Recovery = 98.000%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.408         | 95   | 298565              | 47.341 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 30 - 143 |      | Recovery = 94.680%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 12) 1,1-Dichloroethene        | 3.793          | 96   | 113739              | 24.223 | ug/l   | 98       |
| 16) Acetone                   | 3.867          | 43   | 91635               | 82.234 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether   | 5.116          | 73   | 212586              | 19.525 | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene  | 5.116          | 96   | 82185               | 15.523 | ug/l   | 94       |
| 25) 2-Butanone                | 6.896          | 43   | 40694               | 31.586 | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene    | 6.896          | 96   | 84881               | 14.038 | ug/l   | 92       |
| 30) Chloroform                | 7.421          | 83   | 151000              | 15.952 | ug/l   | 95       |
| 38) Carbon Tetrachloride      | 7.823          | 117  | 129695              | 15.735 | ug/l   | 99       |
| 40) Benzene                   | 8.079          | 78   | 508490              | 23.060 | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.158          | 62   | 258458              | 46.329 | ug/l   | 99       |
| 44) Trichloroethene           | 8.866          | 130  | 183331              | 28.946 | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396         | 75   | 240783              | 37.430 | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.859          | 75   | 319715              | 41.483 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762         | 43   | 154583              | 78.299 | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.018         | 107  | 25570               | 6.761  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.646         | 164  | 128427              | 17.026 | ug/l   | 99       |
| 65) Chlorobenzene             | 11.444         | 112  | 88066               | 5.582  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518         | 131  | 89459               | 16.036 | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518         | 91   | 131645              | 5.156  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.627         | 106  | 450361              | 44.145 | ug/l   | 100      |
| 69) o-Xylene                  | 11.957         | 106  | 424279              | 44.990 | ug/l   | 96       |
| 70) Styrene                   | 11.969         | 104  | 414825              | 26.660 | ug/l   | 93       |
| 71) Bromoform                 | 12.133         | 173  | 85871               | 26.355 | ug/l # | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505         | 83   | 156122              | 39.019 | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.560         | 75   | 107090              | 35.326 | ug/l # | 100      |
| 79) 2-Chlorotoluene           | 12.682         | 91   | 339099              | 19.830 | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999         | 119  | 552302              | 29.792 | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.042         | 105  | 936427              | 46.448 | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292         | 119  | 989472              | 43.712 | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.286         | 146  | 158311              | 12.377 | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365         | 146  | 245531              | 19.542 | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 14.919         | 180  | 208316              | 33.041 | ug/l   | 99       |
| 95) Naphthalene               | 15.145         | 128  | 128093              | 15.660 | ug/l   | 99       |
| -----                         |                |      |                     |        |        |          |

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

**Instrument :**

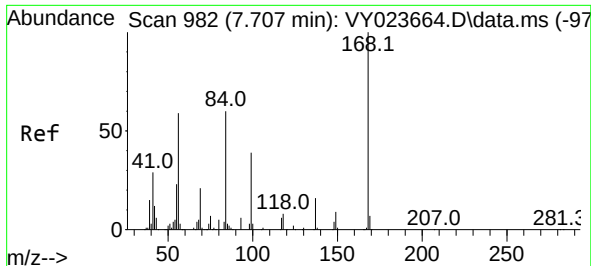
MSVOA\_Y

**ClientSampleId :**

HW1025-PT-VOA-SOILD

Quant Time: Nov 07 04:15:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

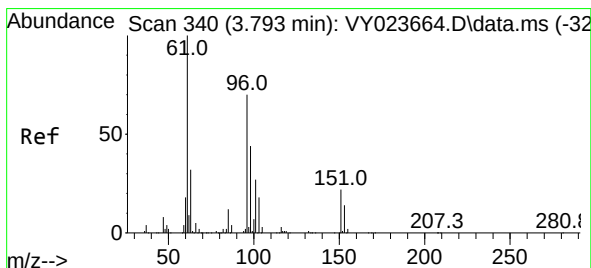
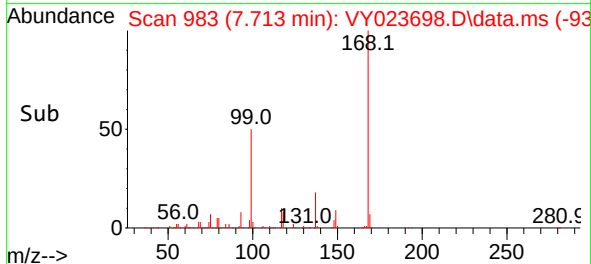
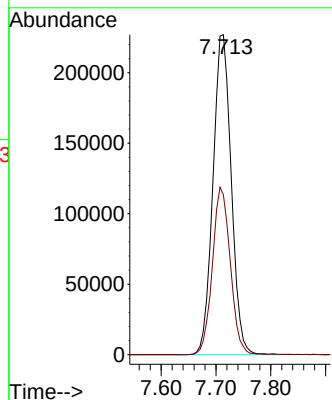
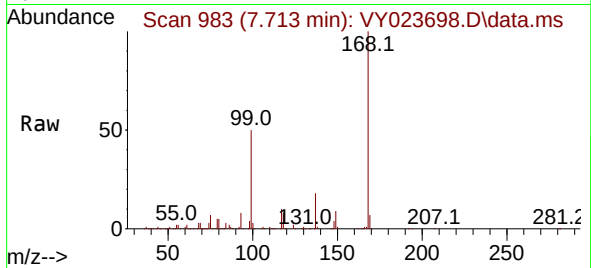




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

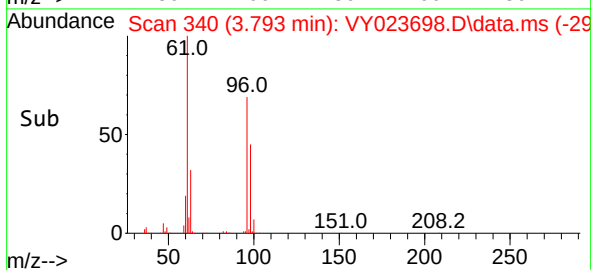
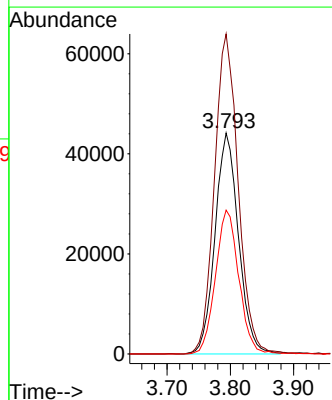
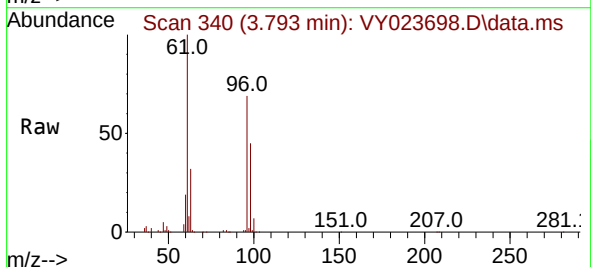
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILDL

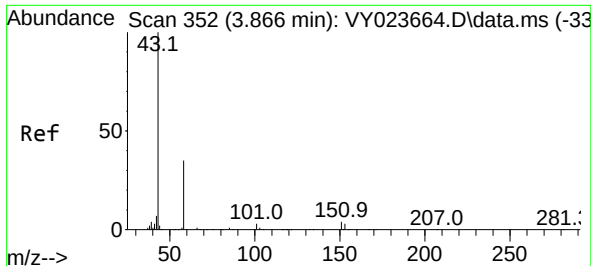
Tgt Ion:168 Resp: 525542  
Ion Ratio Lower Upper  
168 100  
99 50.0 41.0 61.4



#12  
1,1-Dichloroethene  
Concen: 24.223 ug/l  
RT: 3.793 min Scan# 340  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 96 Resp: 113739  
Ion Ratio Lower Upper  
96 100  
61 144.8 114.0 171.0  
98 65.1 50.2 75.2

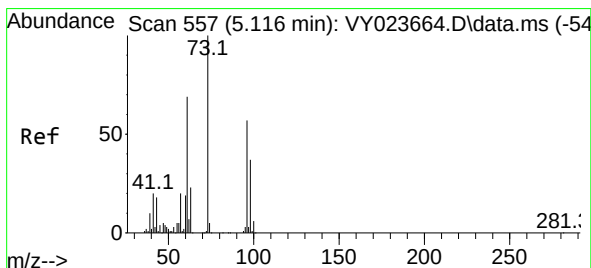
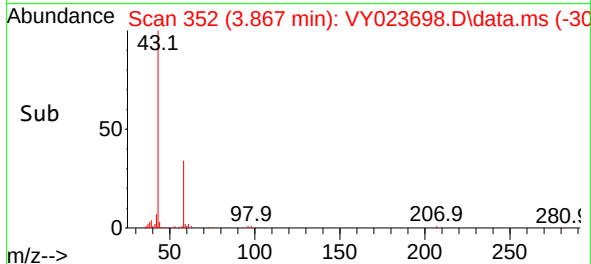
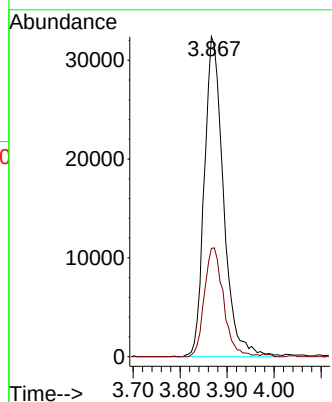
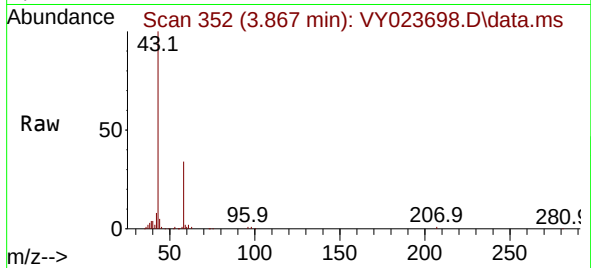




#16  
Acetone  
Concen: 82.234 ug/l  
RT: 3.867 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

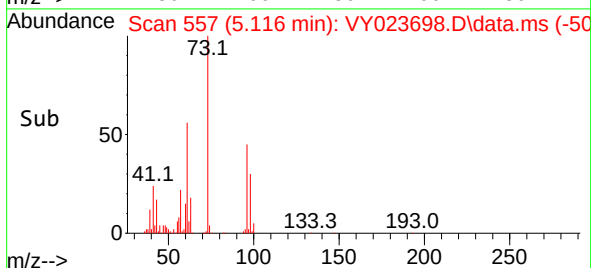
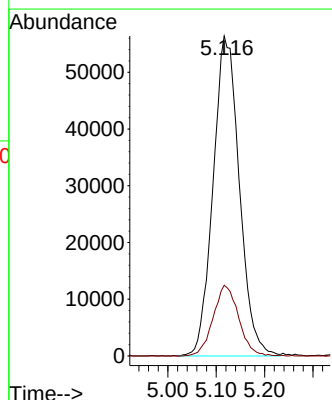
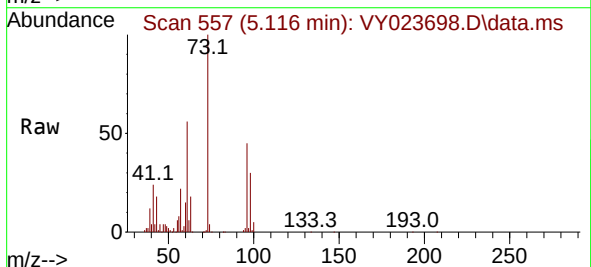
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

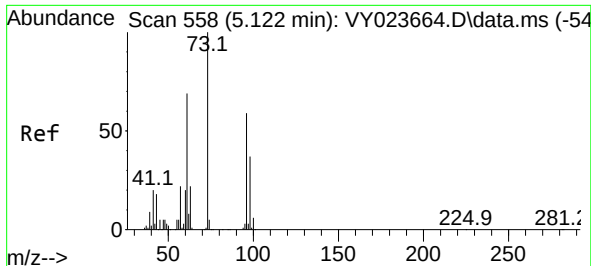
Tgt Ion: 43 Resp: 91635  
Ion Ratio Lower Upper  
43 100  
58 33.9 28.2 42.4



#19  
Methyl tert-butyl Ether  
Concen: 19.525 ug/l  
RT: 5.116 min Scan# 557  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 73 Resp: 212586  
Ion Ratio Lower Upper  
73 100  
57 22.1 16.1 24.1

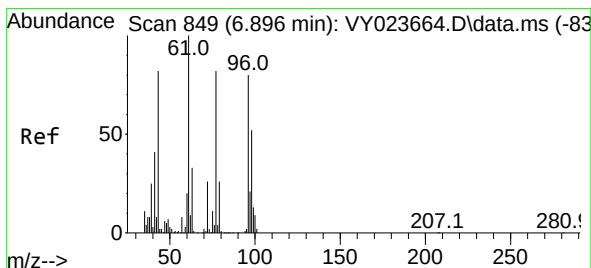
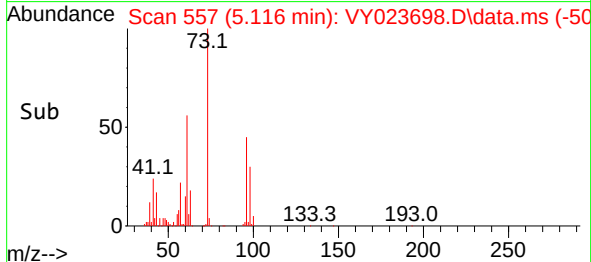
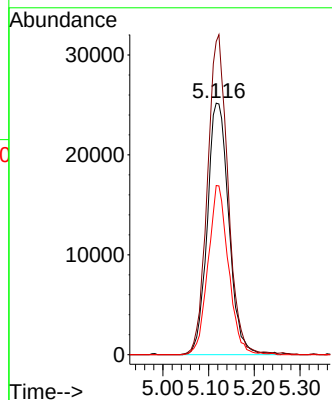
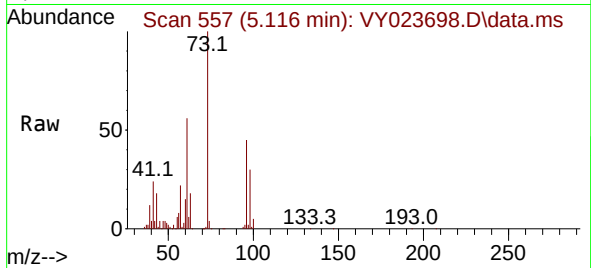




#21  
trans-1,2-Dichloroethene  
Concen: 15.523 ug/l  
RT: 5.116 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

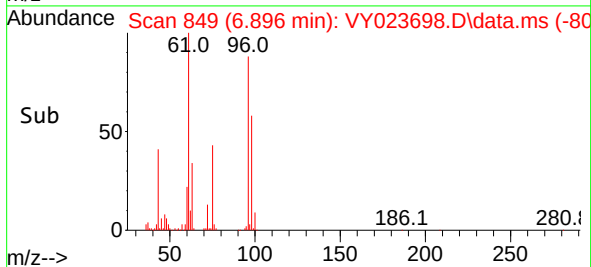
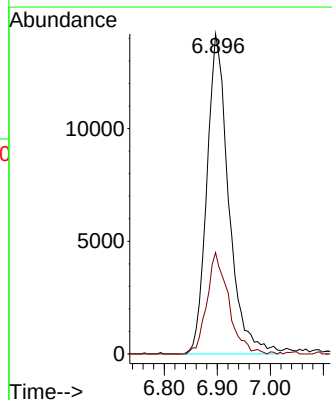
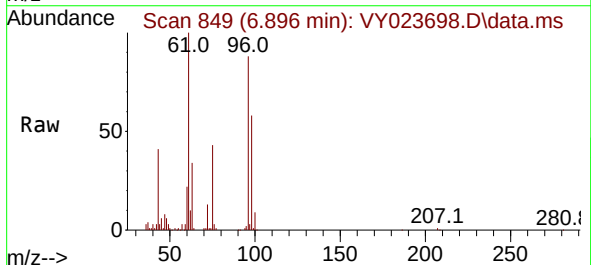
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

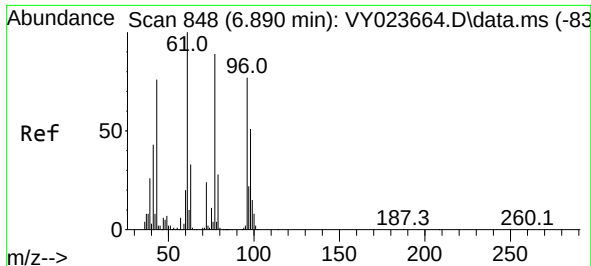
Tgt Ion: 96 Resp: 82185  
Ion Ratio Lower Upper  
96 100  
61 124.5 93.3 139.9  
98 67.2 50.6 75.8



#25  
2-Butanone  
Concen: 31.586 ug/l  
RT: 6.896 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 43 Resp: 40694  
Ion Ratio Lower Upper  
43 100  
72 31.7 25.7 38.5





#27

cis-1,2-Dichloroethene

Concen: 14.038 ug/l

RT: 6.896 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023698.D

Acq: 06 Nov 2025 11:40

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOILD

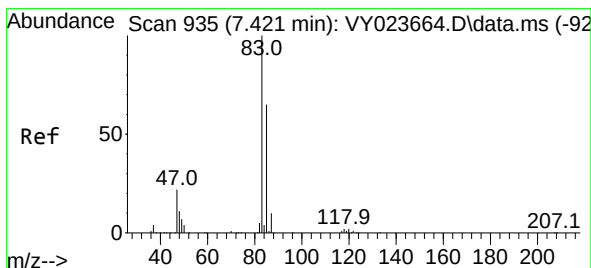
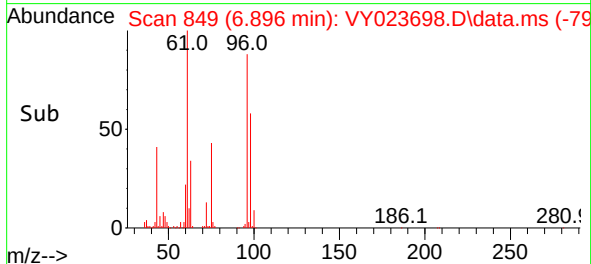
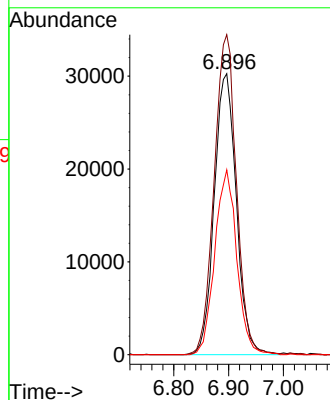
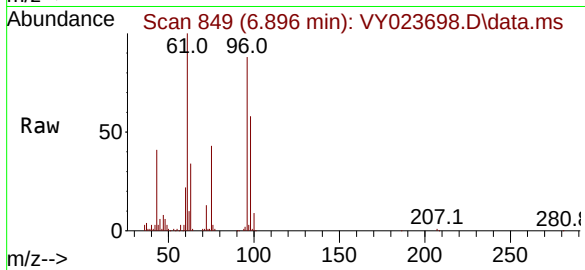
Tgt Ion: 96 Resp: 84881

Ion Ratio Lower Upper

96 100

61 114.6 0.0 255.0

98 65.5 0.0 129.8



#30

Chloroform

Concen: 15.952 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023698.D

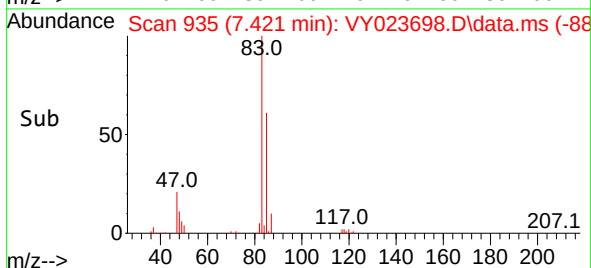
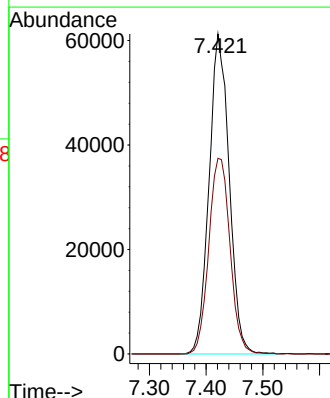
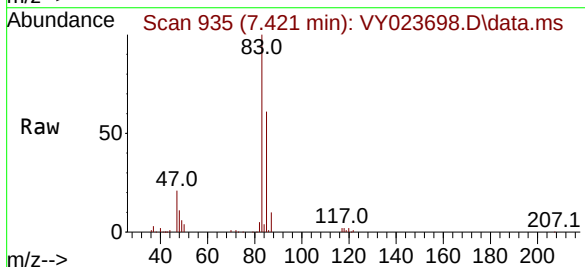
Acq: 06 Nov 2025 11:40

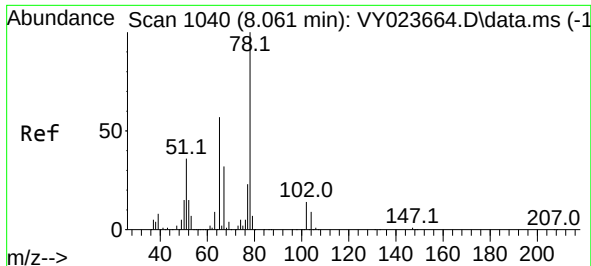
Tgt Ion: 83 Resp: 151000

Ion Ratio Lower Upper

83 100

85 61.2 52.1 78.1





#33

1,2-Dichloroethane-d4

Concen: 51.955 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. 0.000 min

Lab File: VY023698.D

Acq: 06 Nov 2025 11:40

Instrument :

MSVOA\_Y

ClientSampleId :

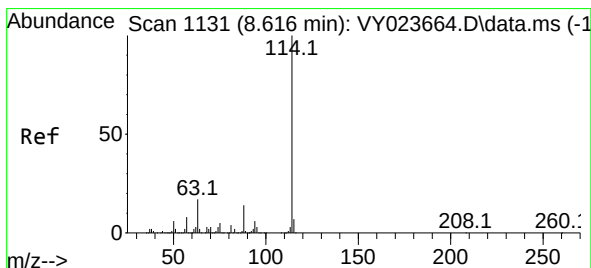
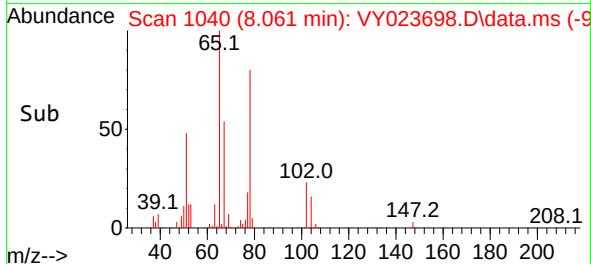
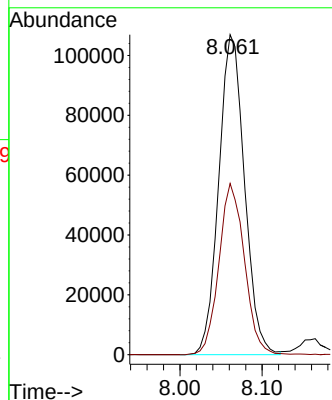
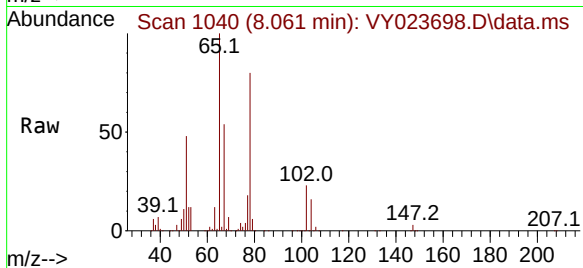
HW1025-PT-VOA-SOILD

Tgt Ion: 65 Resp: 232911

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023698.D

Acq: 06 Nov 2025 11:40

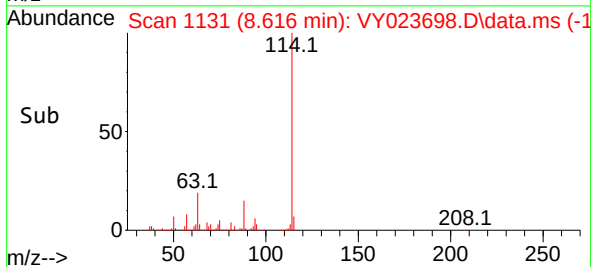
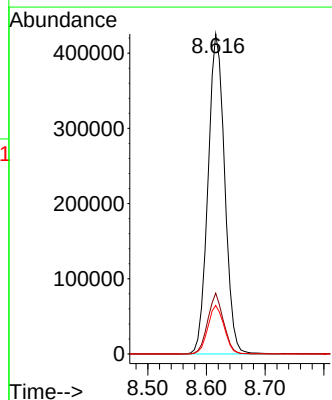
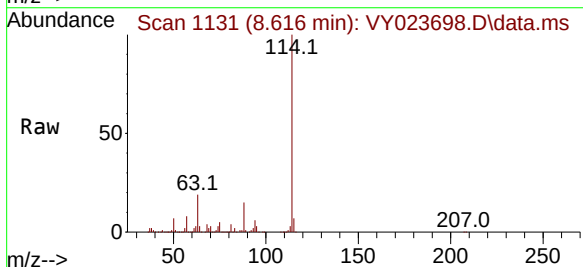
Tgt Ion: 114 Resp: 837737

Ion Ratio Lower Upper

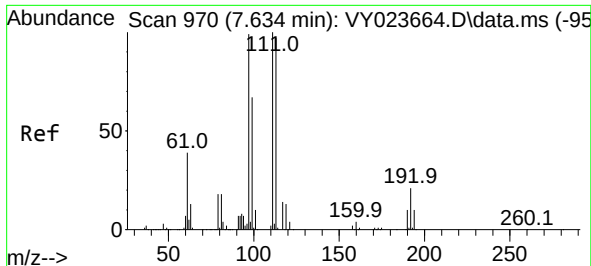
114 100

63 19.0 0.0 33.8

88 15.2 0.0 29.0



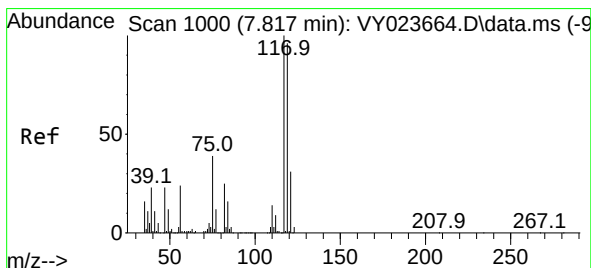
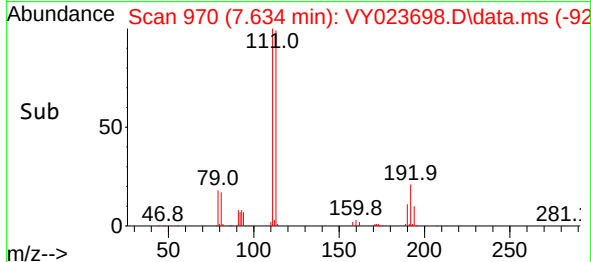
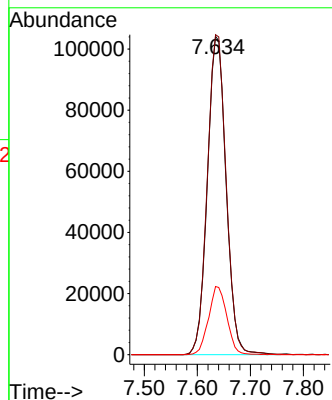
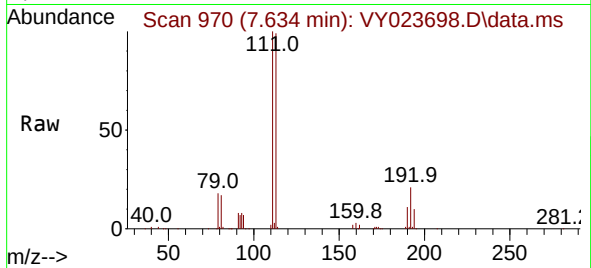




#35  
Dibromofluoromethane  
Concen: 48.781 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

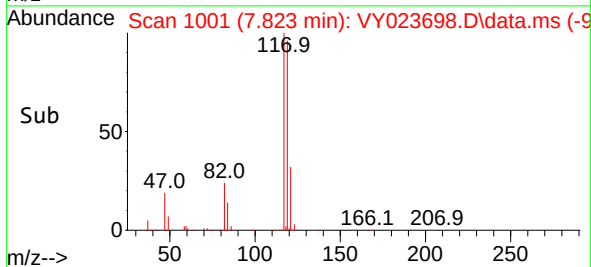
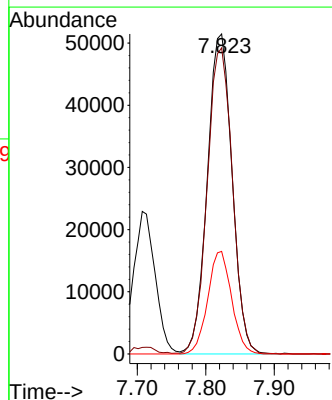
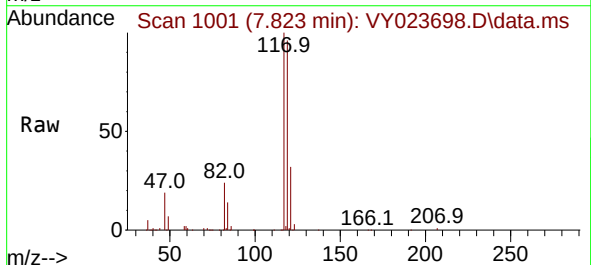
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

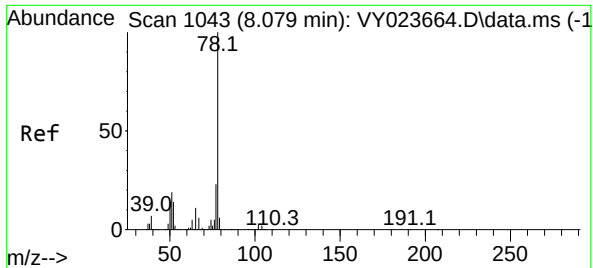
Tgt Ion:113 Resp: 255382  
Ion Ratio Lower Upper  
113 100  
111 101.2 82.2 123.4  
192 21.0 17.3 25.9



#38  
Carbon Tetrachloride  
Concen: 15.735 ug/l  
RT: 7.823 min Scan# 1001  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion:117 Resp: 129695  
Ion Ratio Lower Upper  
117 100  
119 95.6 76.3 114.5  
121 32.1 24.8 37.2

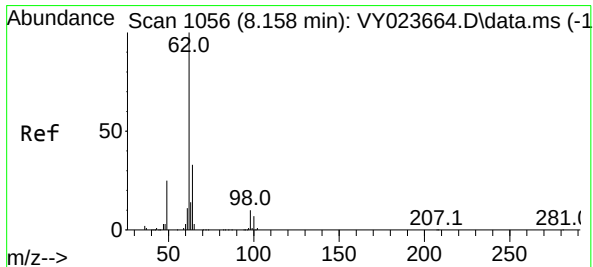
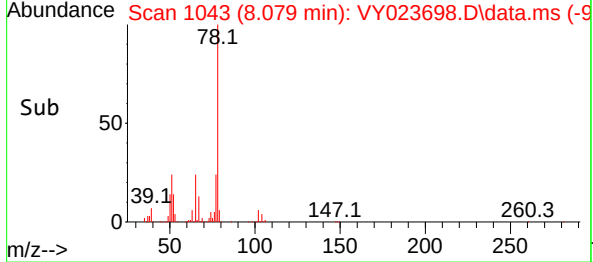
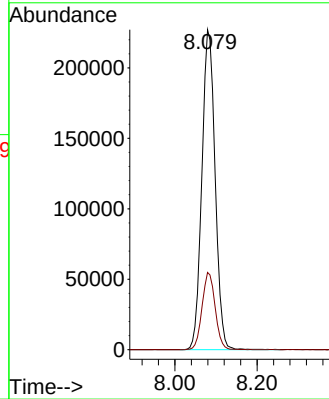
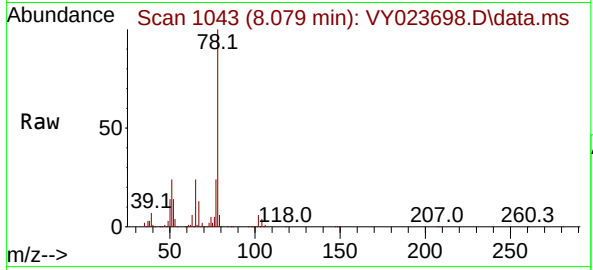




#40  
Benzene  
Concen: 23.060 ug/l  
RT: 8.079 min Scan# 1043  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

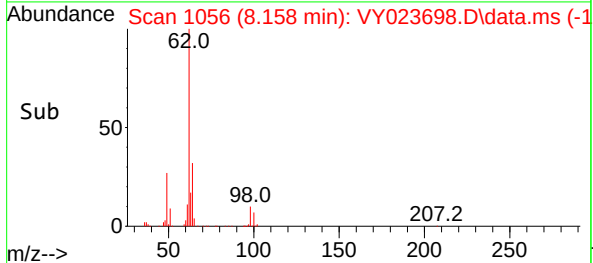
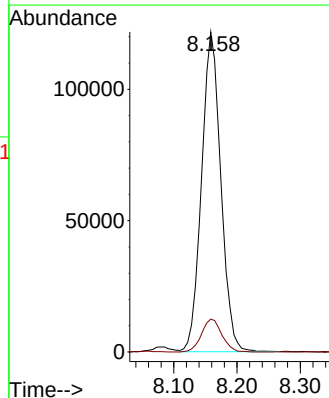
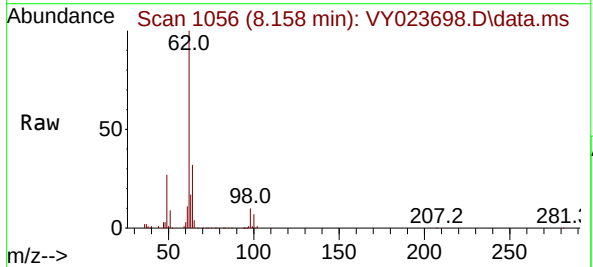
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILDL

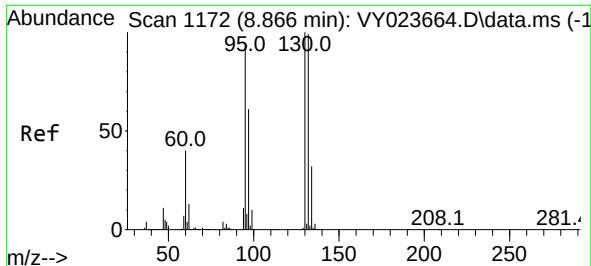
Tgt Ion: 78 Resp: 508490  
Ion Ratio Lower Upper  
78 100  
77 24.2 18.8 28.2



#42  
1,2-Dichloroethane  
Concen: 46.329 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 62 Resp: 258458  
Ion Ratio Lower Upper  
62 100  
98 10.8 0.0 21.0

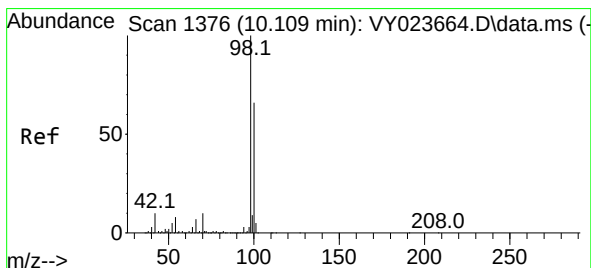
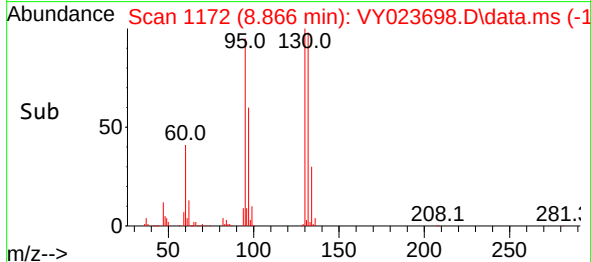
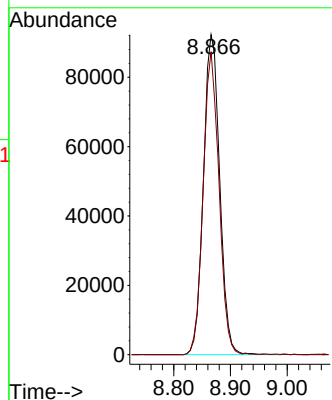
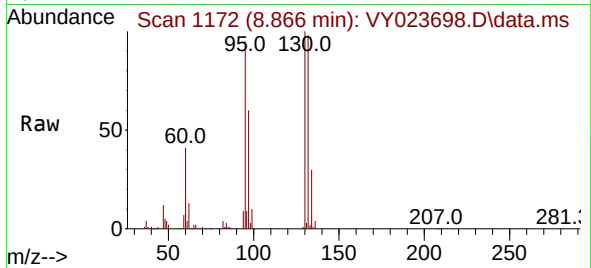




#44  
 Trichloroethene  
 Concen: 28.946 ug/l  
 RT: 8.866 min Scan# 1172  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

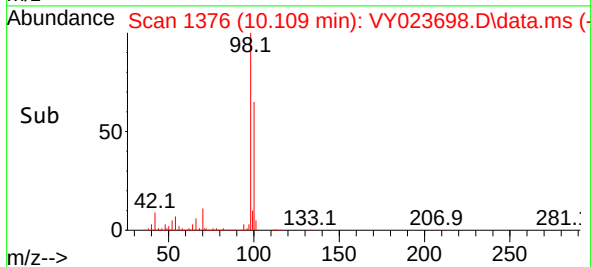
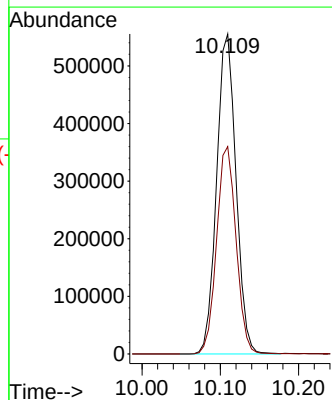
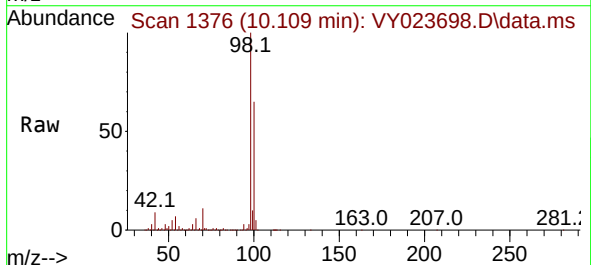
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILD

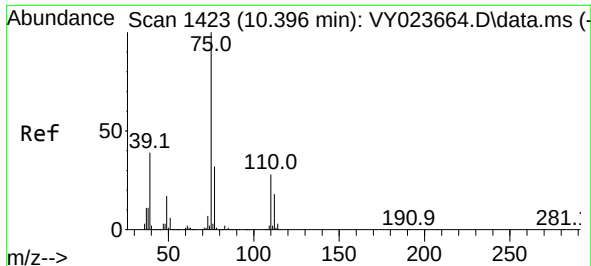
Tgt Ion:130 Resp: 183331  
 Ion Ratio Lower Upper  
 130 100  
 95 94.7 0.0 187.0



#50  
 Toluene-d8  
 Concen: 48.999 ug/l  
 RT: 10.109 min Scan# 1376  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

Tgt Ion: 98 Resp: 955572  
 Ion Ratio Lower Upper  
 98 100  
 100 65.2 52.7 79.1

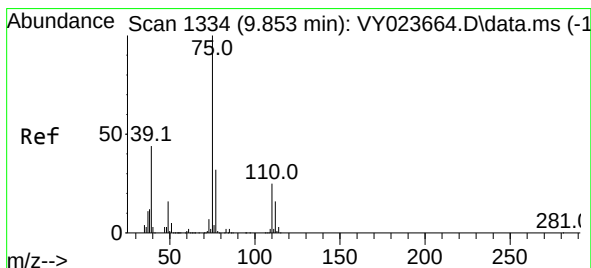
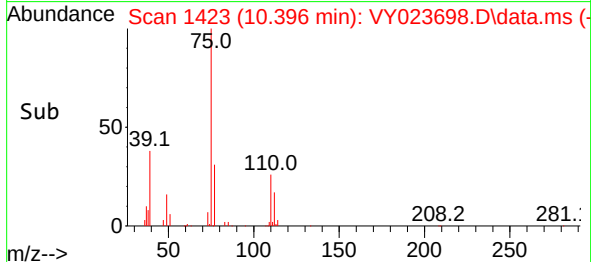
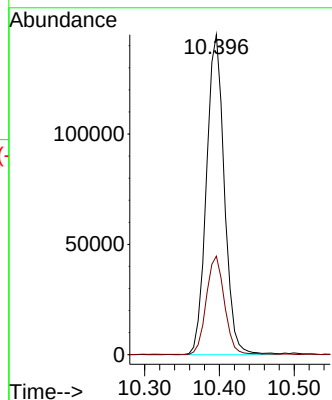
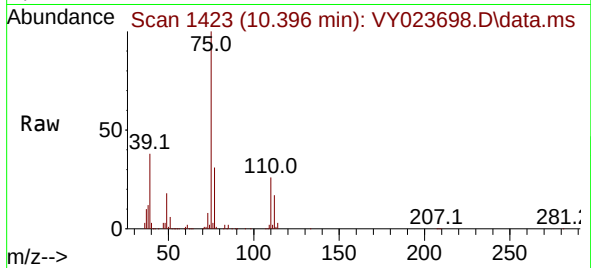




#53  
 t-1,3-Dichloropropene  
 Concen: 37.430 ug/l  
 RT: 10.396 min Scan# 1423  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

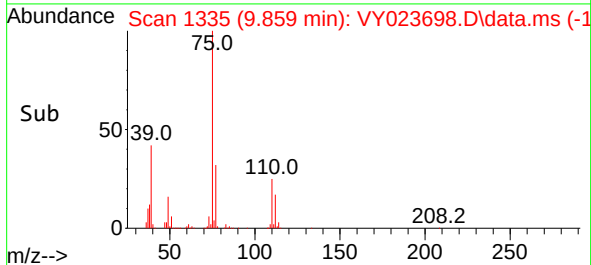
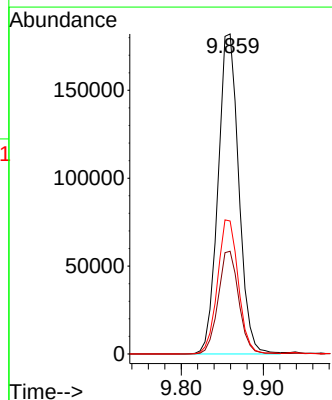
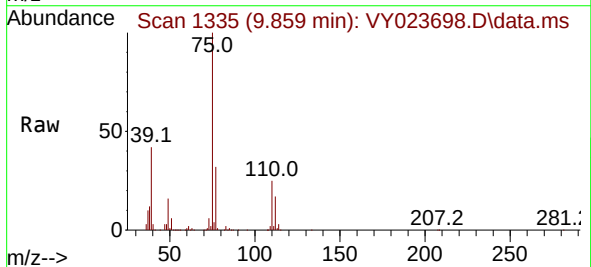
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILD

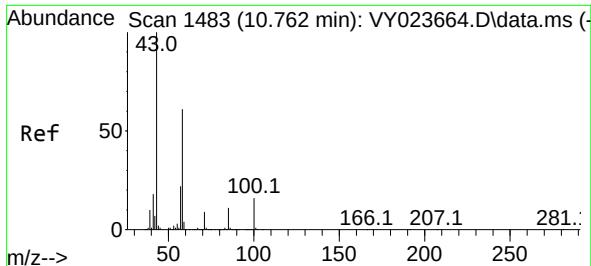
Tgt Ion: 75 Resp: 240783  
 Ion Ratio Lower Upper  
 75 100  
 77 30.7 25.6 38.4



#54  
 cis-1,3-Dichloropropene  
 Concen: 41.483 ug/l  
 RT: 9.859 min Scan# 1335  
 Delta R.T. 0.006 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

Tgt Ion: 75 Resp: 319715  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.7 38.5  
 39 41.6 34.9 52.3

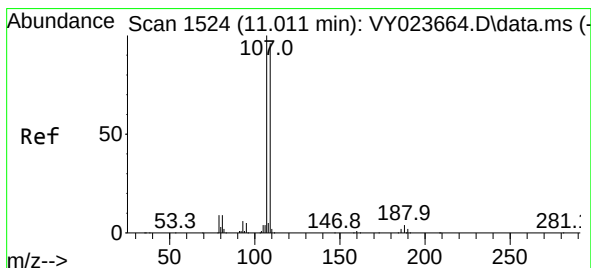
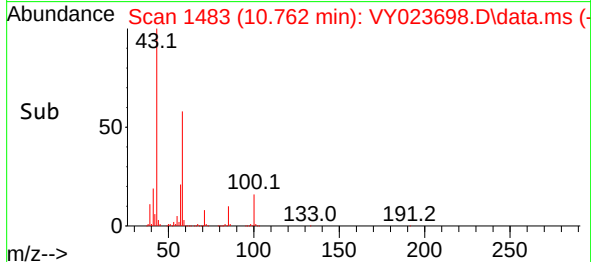
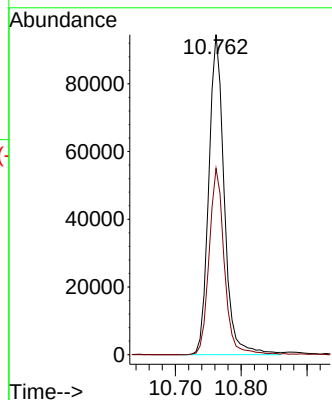
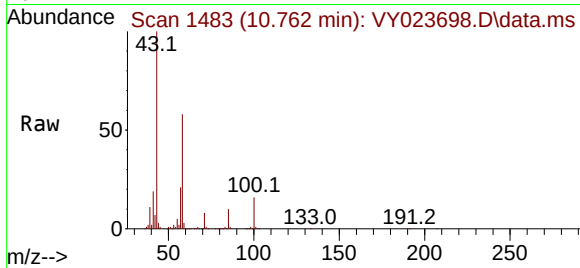




#59  
2-Hexanone  
Concen: 78.299 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

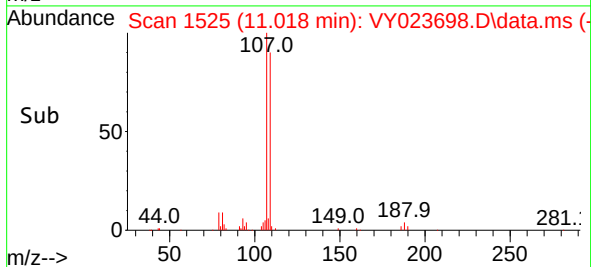
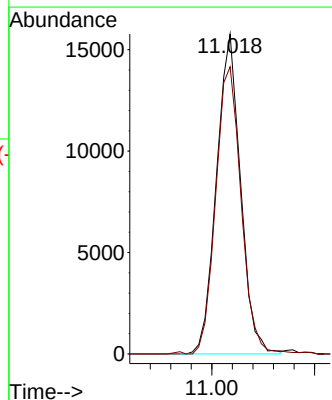
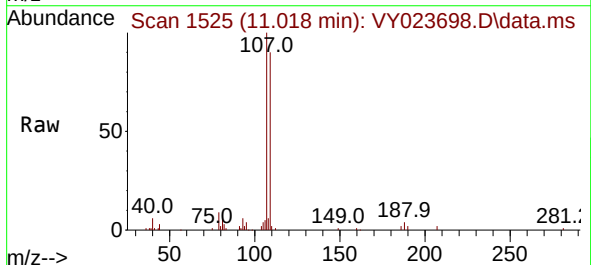
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

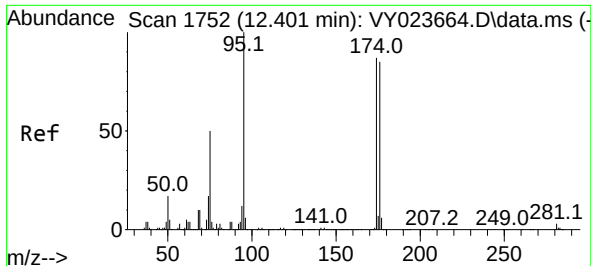
Tgt Ion: 43 Resp: 154583  
Ion Ratio Lower Upper  
43 100  
58 57.2 30.2 90.6



#61  
1,2-Dibromoethane  
Concen: 6.761 ug/l  
RT: 11.018 min Scan# 1525  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 107 Resp: 25570  
Ion Ratio Lower Upper  
107 100  
109 94.9 76.2 114.4

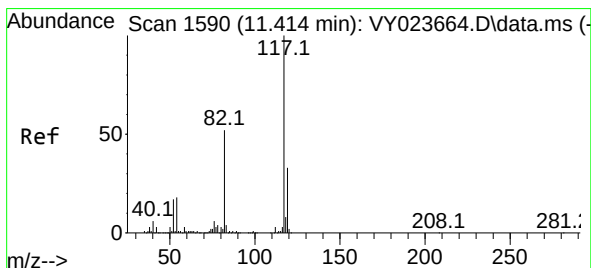
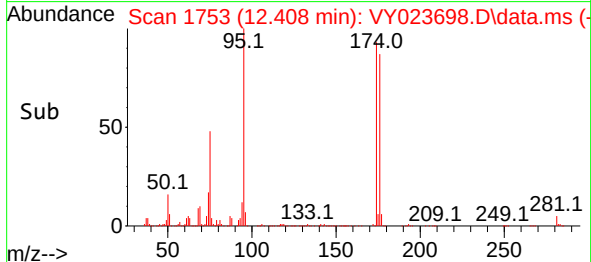
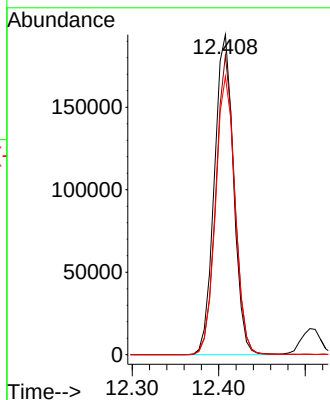
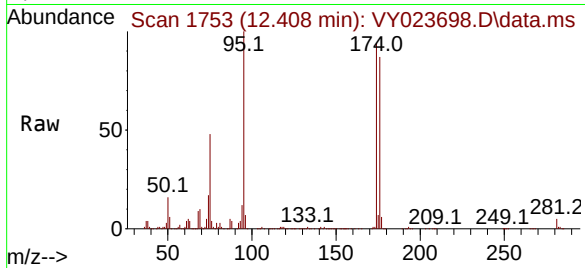




#62  
4-Bromofluorobenzene  
Concen: 47.341 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

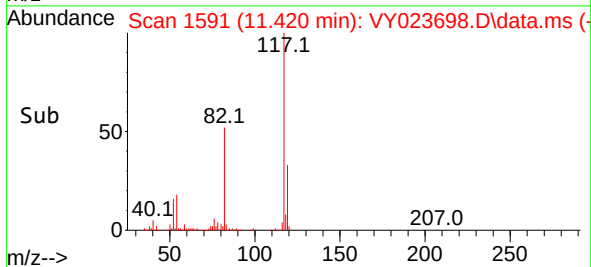
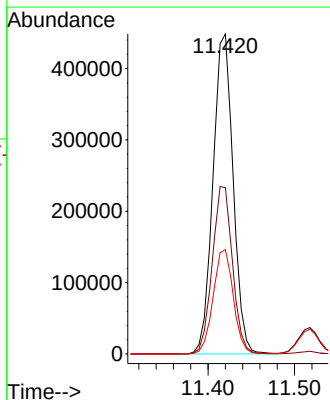
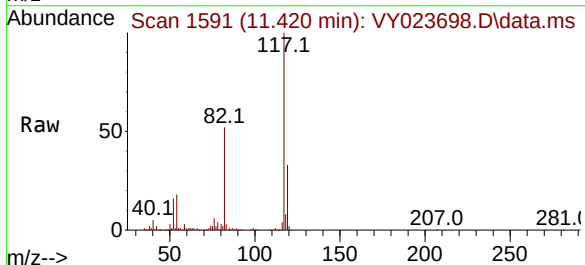
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILDL

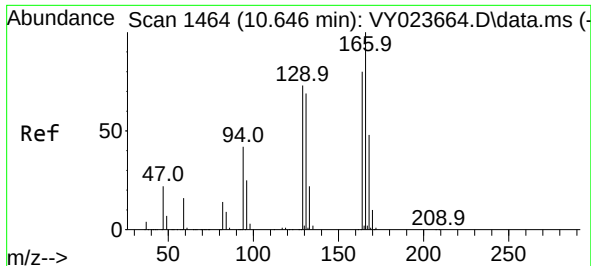
Tgt Ion: 95 Resp: 298565  
Ion Ratio Lower Upper  
95 100  
174 91.9 0.0 184.8  
176 88.4 0.0 181.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

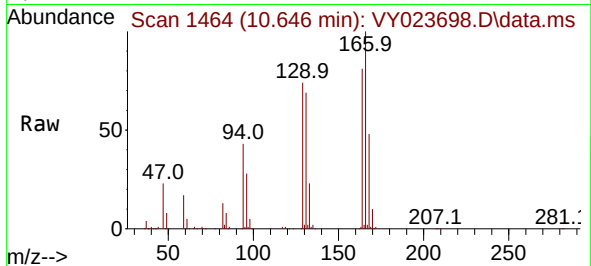
Tgt Ion: 117 Resp: 724701  
Ion Ratio Lower Upper  
117 100  
82 51.9 41.2 61.8  
119 32.6 26.2 39.2



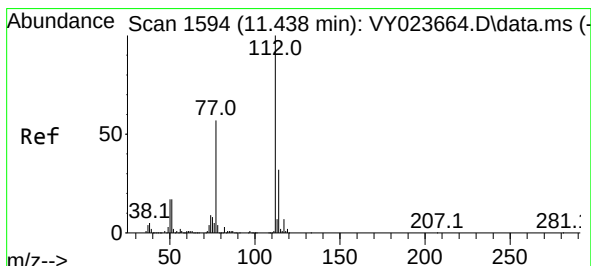
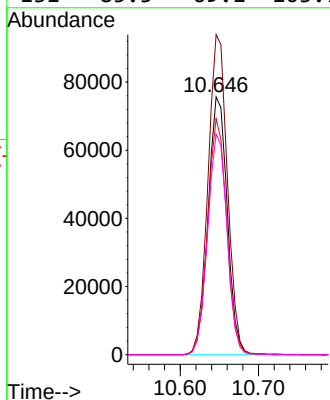
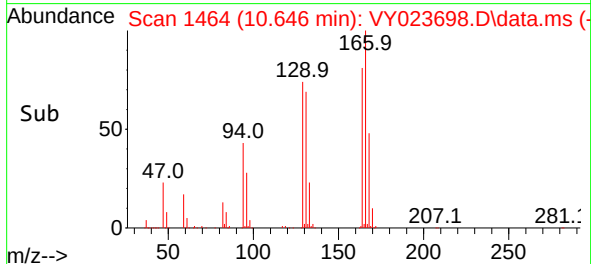


#64  
Tetrachloroethene  
Concen: 17.026 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

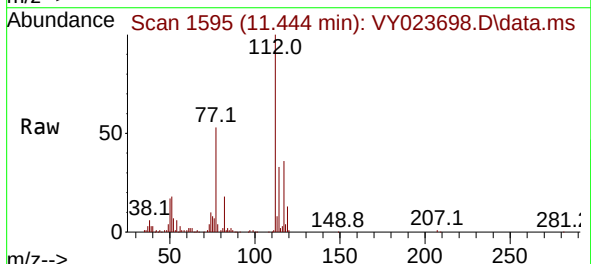
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD



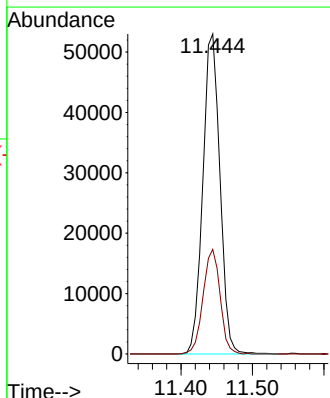
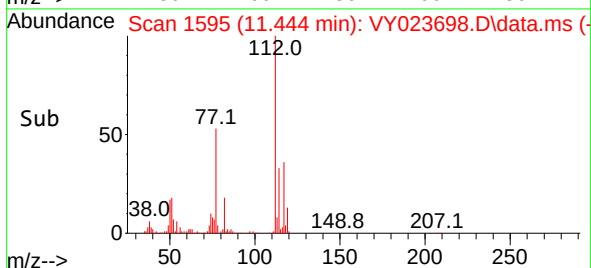
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 128427 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 124.2 | 99.5  | 149.3  |
| 129      | 91.6  | 72.3  | 108.5  |
| 131      | 85.5  | 69.1  | 103.7  |

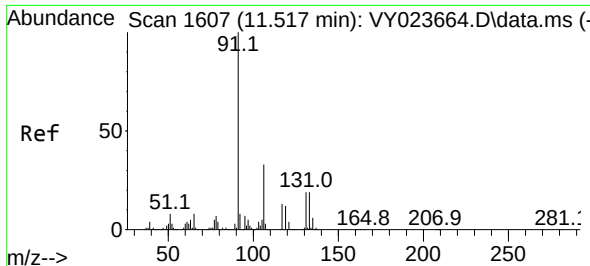


#65  
Chlorobenzene  
Concen: 5.582 ug/l  
RT: 11.444 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 88066 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 32.6  | 25.8  | 38.6  |

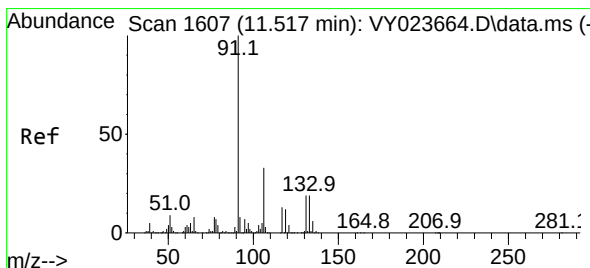
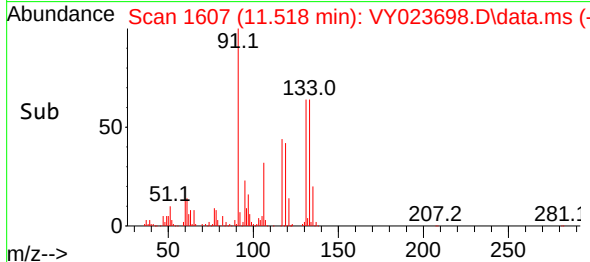
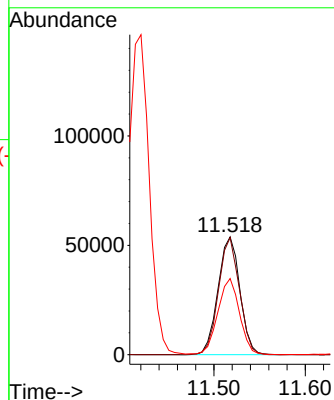
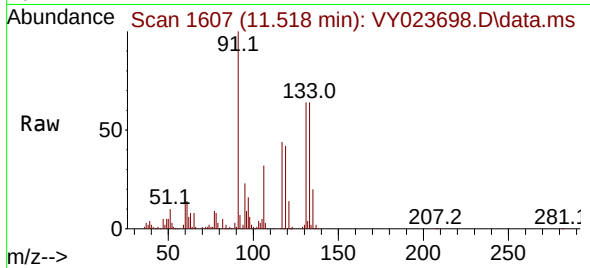




#66  
1,1,1,2-Tetrachloroethane  
Concen: 16.036 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

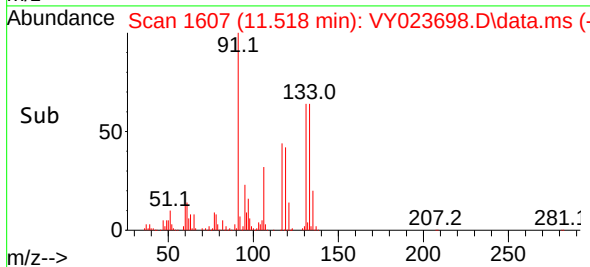
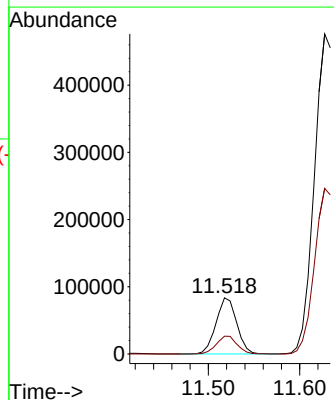
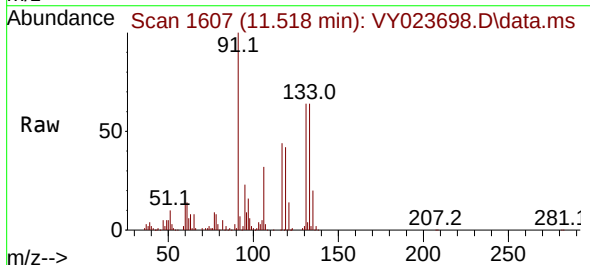
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

Tgt Ion:131 Resp: 89459  
Ion Ratio Lower Upper  
131 100  
133 95.3 47.3 141.8  
119 64.3 32.5 97.4

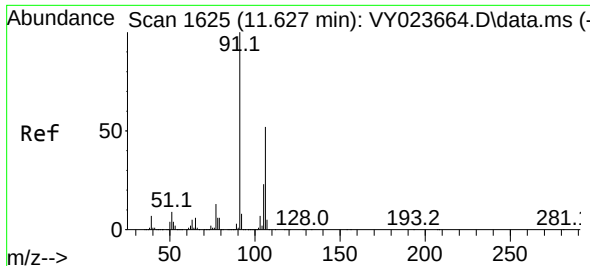


#67  
Ethyl Benzene  
Concen: 5.156 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 91 Resp: 131645  
Ion Ratio Lower Upper  
91 100  
106 31.6 26.6 40.0



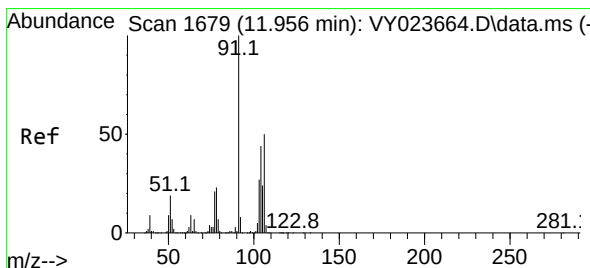
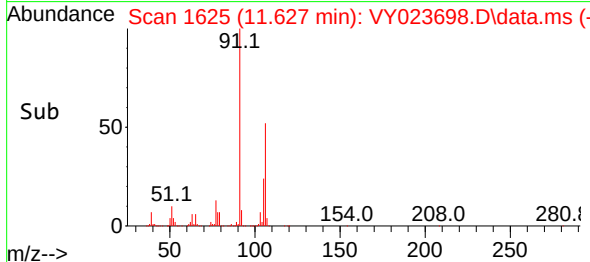
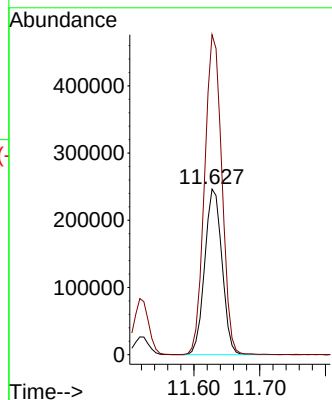
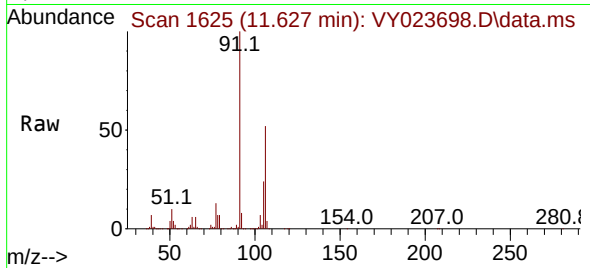




#68  
m/p-Xylenes  
Concen: 44.145 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

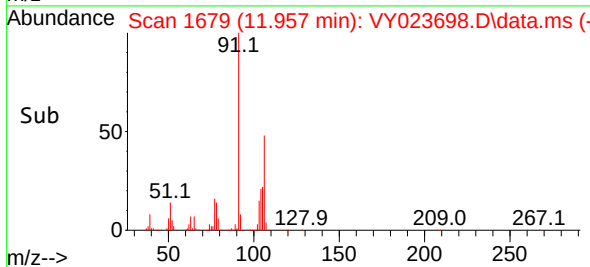
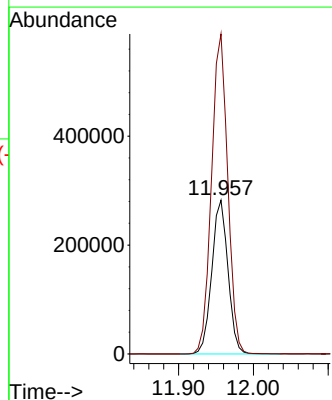
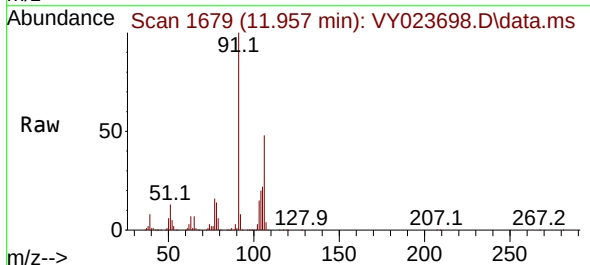
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

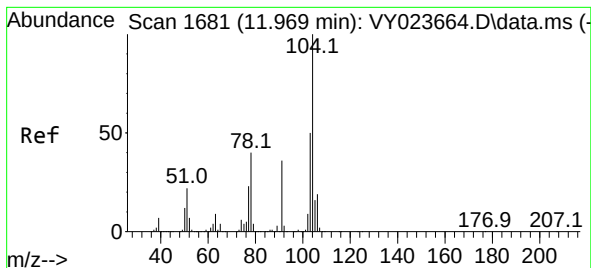
Tgt Ion:106 Resp: 450361  
Ion Ratio Lower Upper  
106 100  
91 192.9 154.3 231.5



#69  
o-Xylene  
Concen: 44.990 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion:106 Resp: 424279  
Ion Ratio Lower Upper  
106 100  
91 209.1 101.6 304.6





#70

Styrene

Concen: 26.660 ug/l

RT: 11.969 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY023698.D

Acq: 06 Nov 2025 11:40

Instrument :

MSVOA\_Y

ClientSampleId :

HW1025-PT-VOA-SOILD

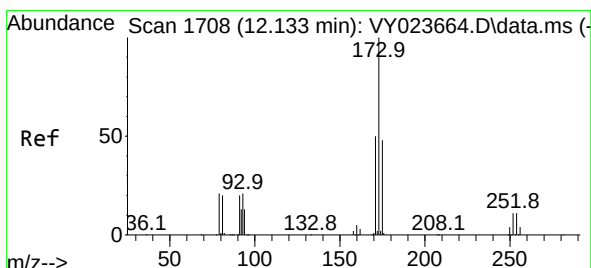
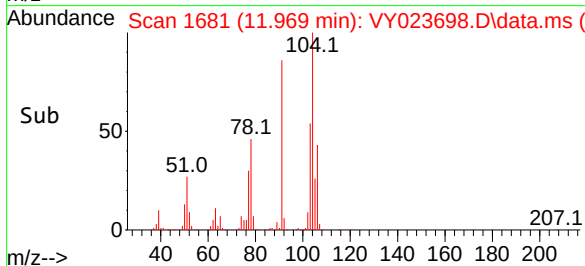
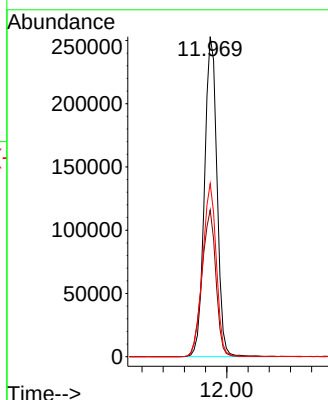
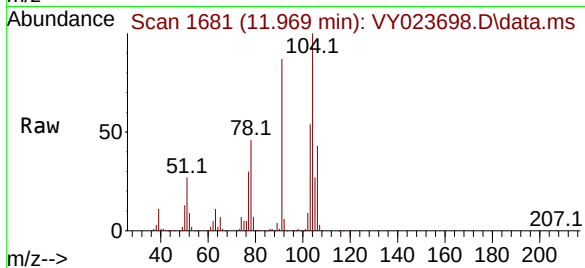
Tgt Ion:104 Resp: 414825

Ion Ratio Lower Upper

104 100

78 51.0 36.5 54.7

103 59.1 43.7 65.5



#71

Bromoform

Concen: 26.355 ug/l

RT: 12.133 min Scan# 1708

Delta R.T. 0.000 min

Lab File: VY023698.D

Acq: 06 Nov 2025 11:40

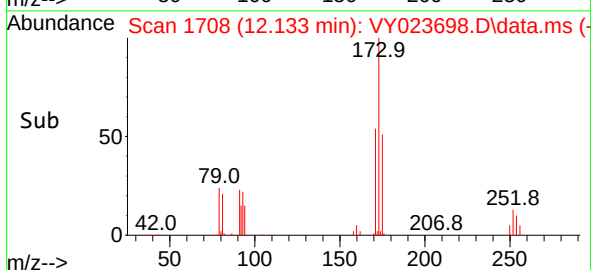
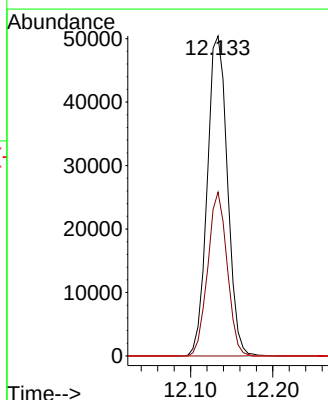
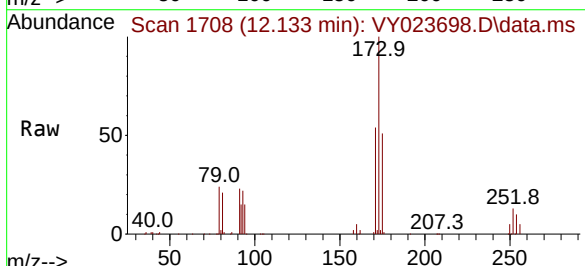
Tgt Ion:173 Resp: 85871

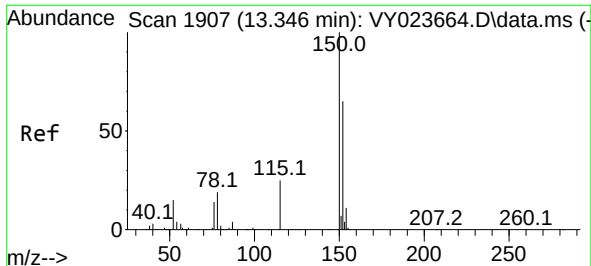
Ion Ratio Lower Upper

173 100

175 49.3 24.2 72.6

254 0.0 0.2 0.2#

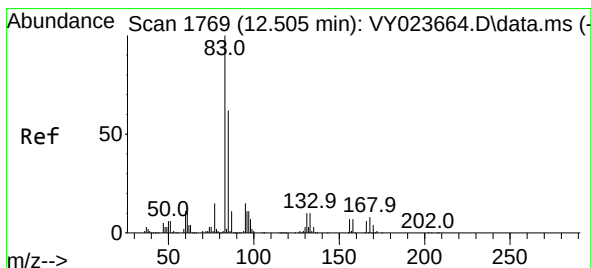
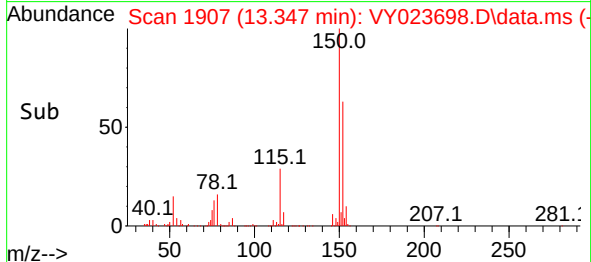
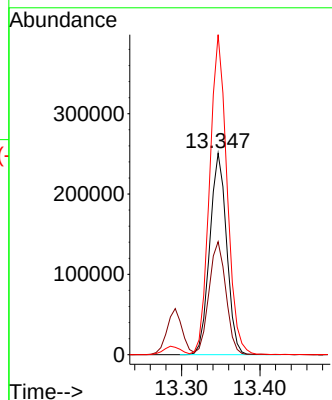
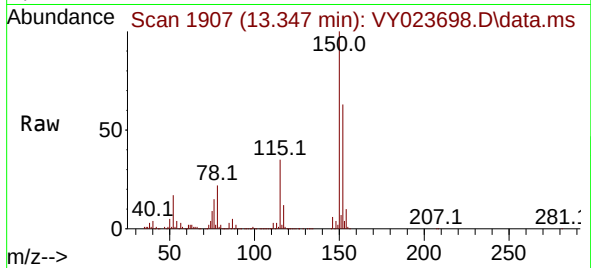




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.347 min Scan# 1907  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

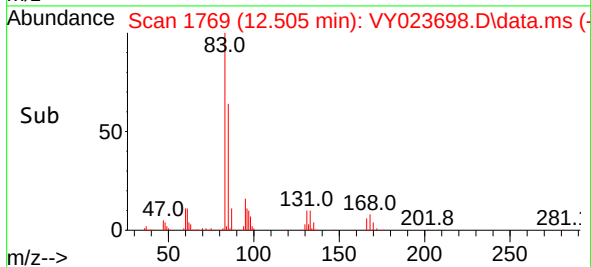
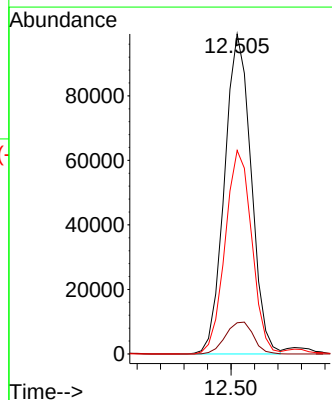
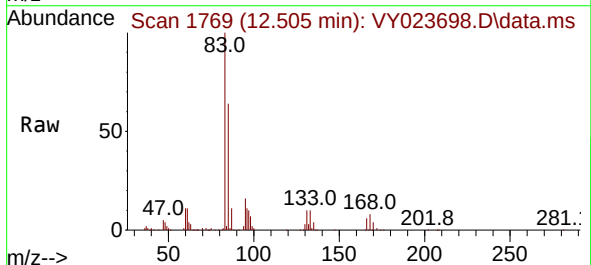
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILD

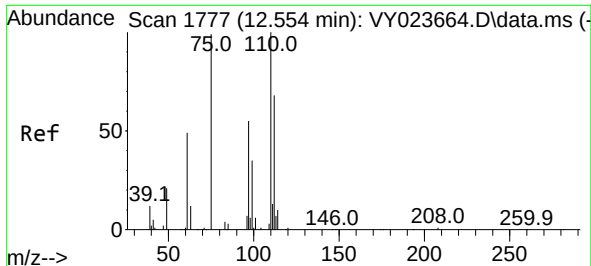
Tgt Ion:152 Resp: 374577  
 Ion Ratio Lower Upper  
 152 100  
 115 56.1 27.5 82.5  
 150 163.2 0.0 349.0



#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 39.019 ug/l  
 RT: 12.505 min Scan# 1769  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

Tgt Ion: 83 Resp: 156122  
 Ion Ratio Lower Upper  
 83 100  
 131 10.4 5.7 17.0  
 85 63.8 31.9 95.7

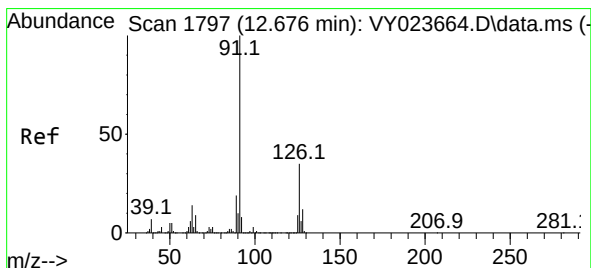
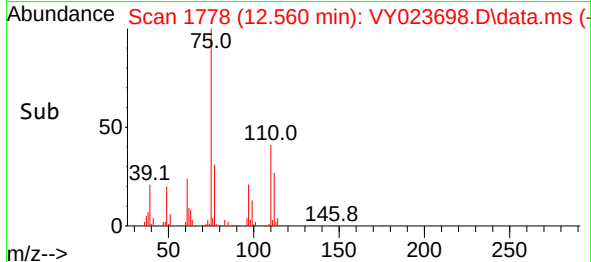
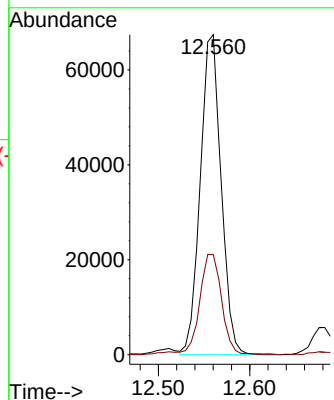
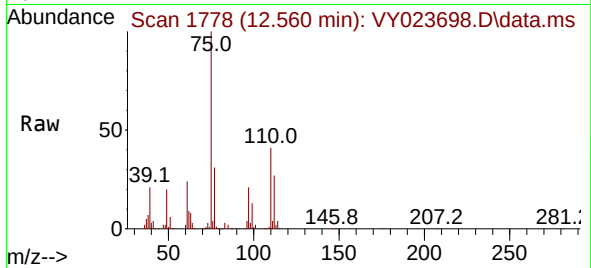




#76  
1,2,3-Trichloropropane  
Concen: 35.326 ug/l  
RT: 12.560 min Scan# 1778  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

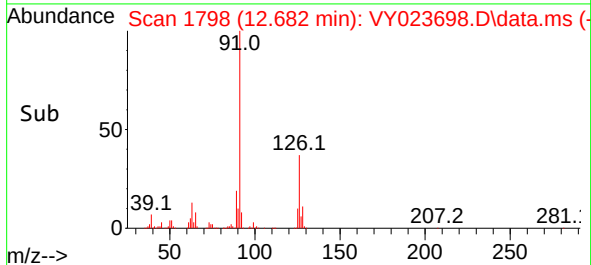
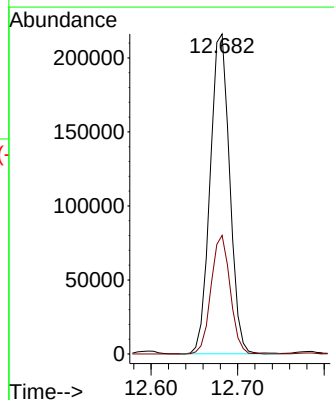
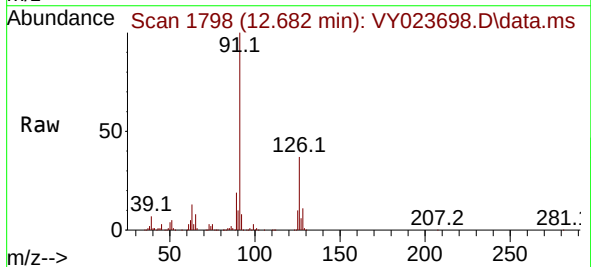
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

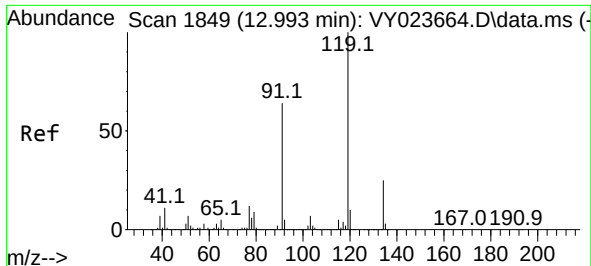
Tgt Ion: 75 Resp: 107090  
Ion Ratio Lower Upper  
75 100  
77 33.5 0.0 0.0#



#79  
2-Chlorotoluene  
Concen: 19.830 ug/l  
RT: 12.682 min Scan# 1798  
Delta R.T. 0.006 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion: 91 Resp: 339099  
Ion Ratio Lower Upper  
91 100  
126 36.2 18.0 54.0

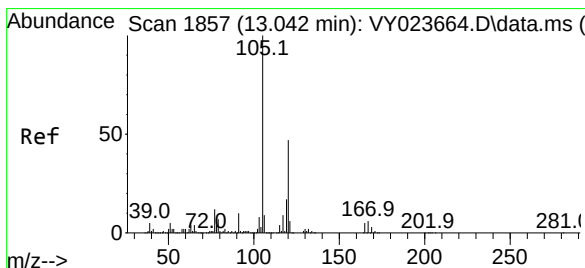
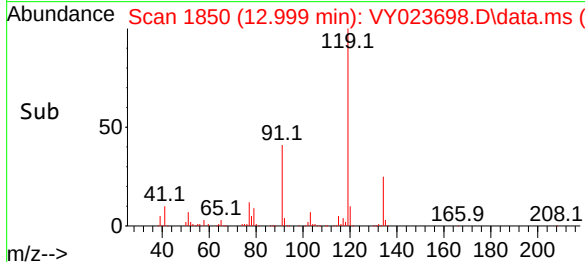
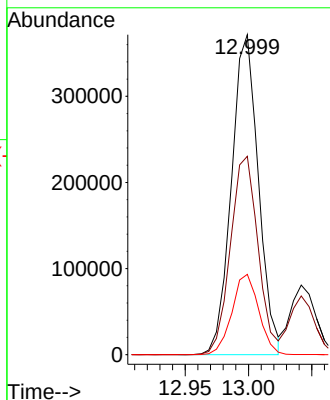
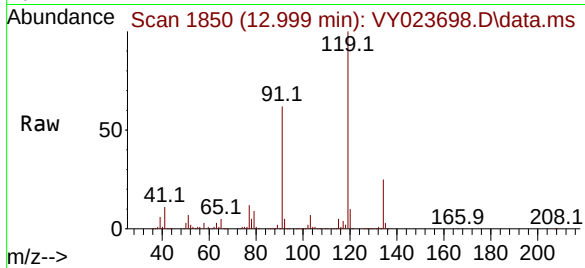




#83  
 tert-Butylbenzene  
 Concen: 29.792 ug/l  
 RT: 12.999 min Scan# 1850  
 Delta R.T. 0.006 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

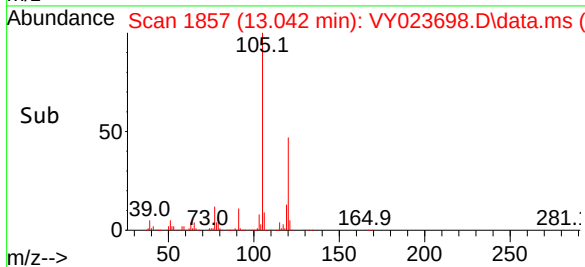
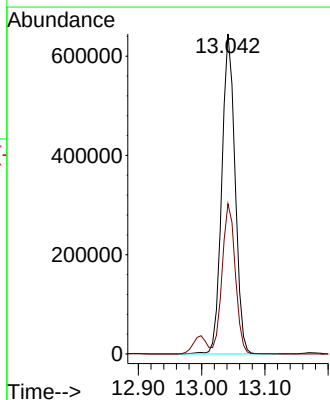
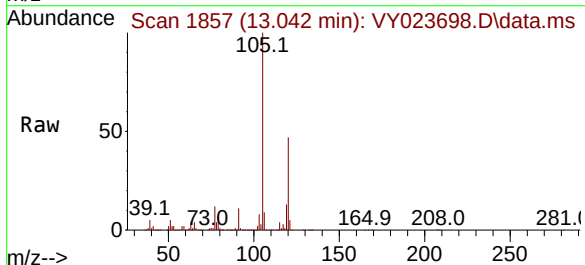
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILD

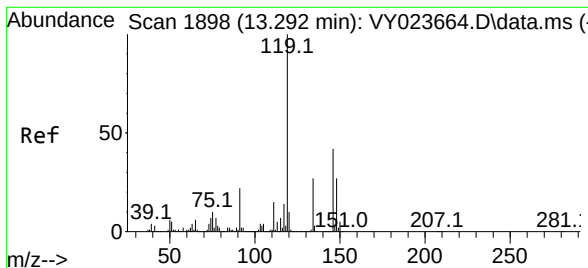
Tgt Ion:119 Resp: 552302  
 Ion Ratio Lower Upper  
 119 100  
 91 63.6 30.7 92.1  
 134 25.0 13.1 39.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 46.448 ug/l  
 RT: 13.042 min Scan# 1857  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

Tgt Ion:105 Resp: 936427  
 Ion Ratio Lower Upper  
 105 100  
 120 46.2 23.2 69.6

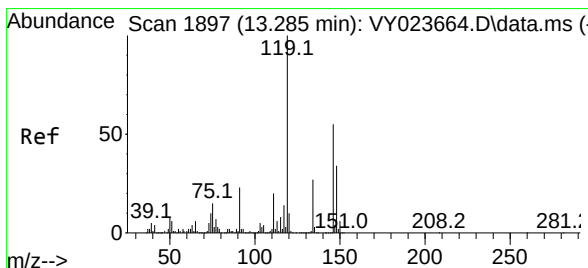
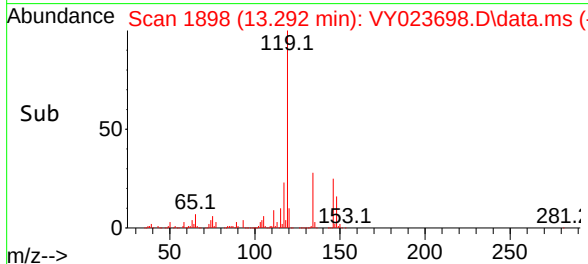
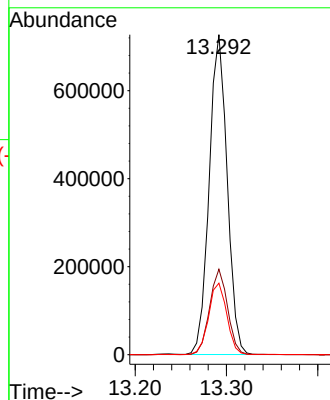
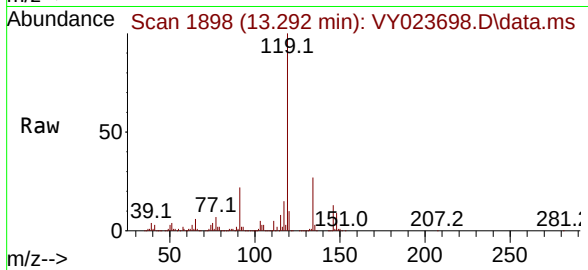




#86  
p-Isopropyltoluene  
Concen: 43.712 ug/l  
RT: 13.292 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

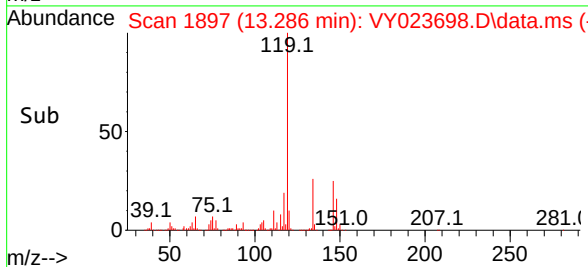
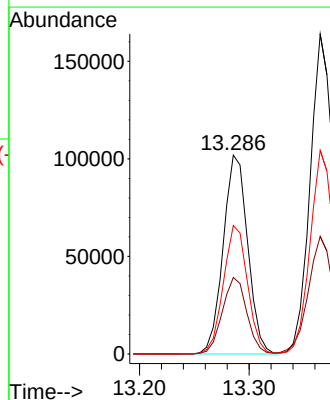
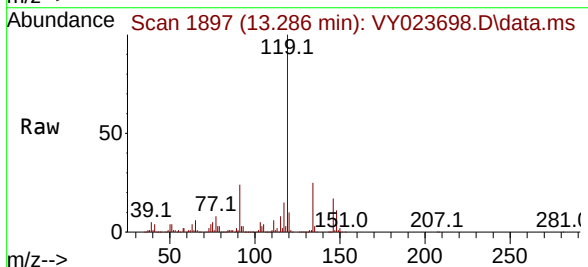
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILD

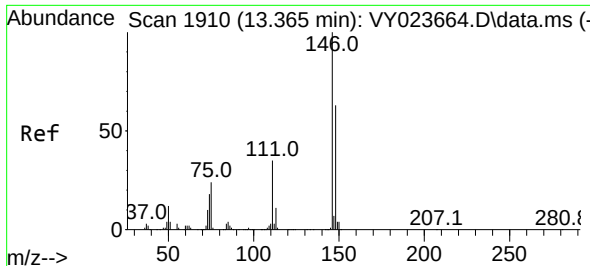
Tgt Ion:119 Resp: 989472  
Ion Ratio Lower Upper  
119 100  
134 26.8 13.4 40.2  
91 22.7 11.1 33.1



#87  
1,3-Dichlorobenzene  
Concen: 12.377 ug/l  
RT: 13.286 min Scan# 1897  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Tgt Ion:146 Resp: 158311  
Ion Ratio Lower Upper  
146 100  
111 38.3 18.8 56.3  
148 63.6 31.9 95.5

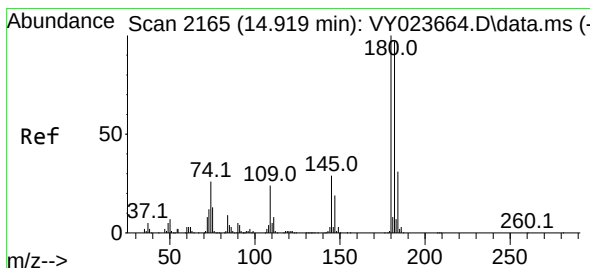
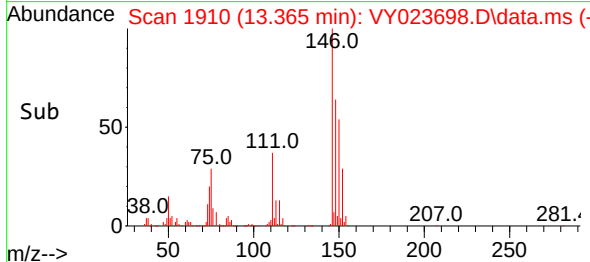
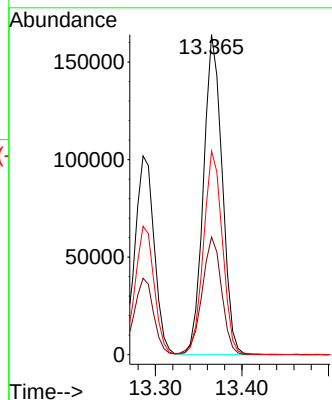
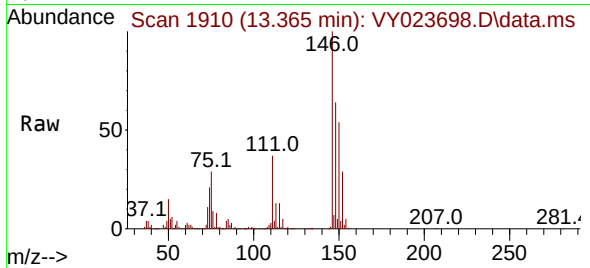




#88  
 1,4-Dichlorobenzene  
 Concen: 19.542 ug/l  
 RT: 13.365 min Scan# 1910  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

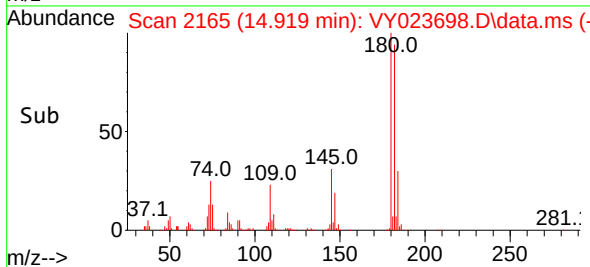
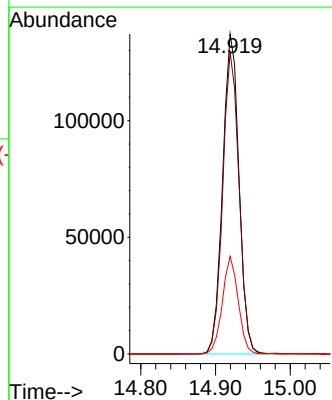
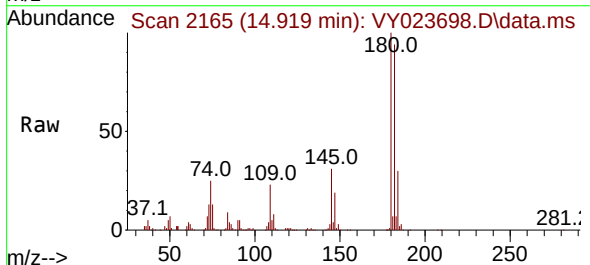
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HW1025-PT-VOA-SOILD

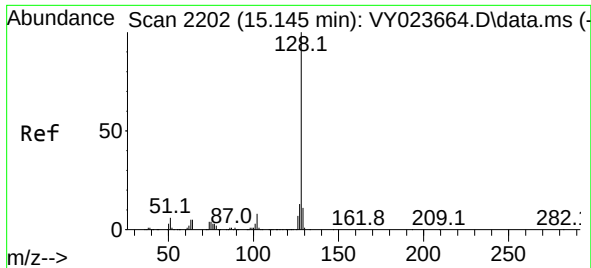
Tgt Ion:146 Resp: 245531  
 Ion Ratio Lower Upper  
 146 100  
 111 38.5 18.3 54.8  
 148 64.2 31.8 95.3



#93  
 1,2,4-Trichlorobenzene  
 Concen: 33.041 ug/l  
 RT: 14.919 min Scan# 2165  
 Delta R.T. 0.000 min  
 Lab File: VY023698.D  
 Acq: 06 Nov 2025 11:40

Tgt Ion:180 Resp: 208316  
 Ion Ratio Lower Upper  
 180 100  
 182 94.2 47.5 142.6  
 145 29.6 14.4 43.4

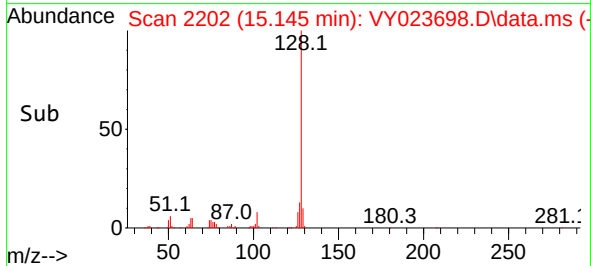
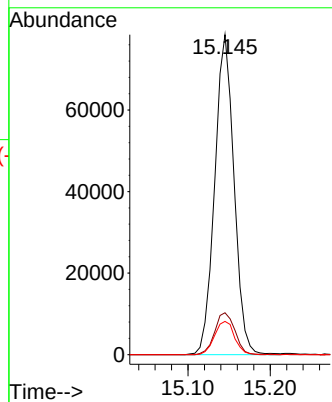
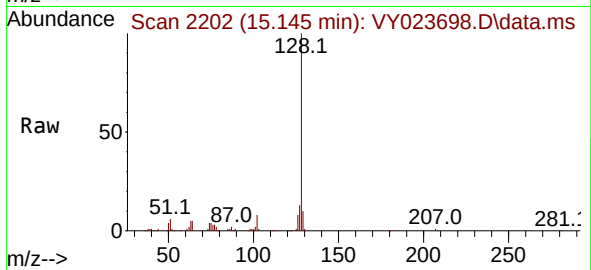




#95  
Naphthalene  
Concen: 15.660 ug/l  
RT: 15.145 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VY023698.D  
Acq: 06 Nov 2025 11:40

Instrument :  
MSVOA\_Y  
ClientSampleId :  
HW1025-PT-VOA-SOILDL

Tgt Ion:128 Resp: 128093  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.5 15.7  
129 10.8 8.8 13.2







# CALIBRATION SUMMARY



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

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG No.: Q3483  
 Instrument ID: MSVOA\_Y Calibration Date(s): 11/04/2025 11/04/2025  
 Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:                   |        | RRF005 = VY023661.D |        | RRF010 = VY023662.D |        | RRF020 = VY023663.D |       |       |  |
|--------------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|--|
|                                |        | RRF050 = VY023664.D |        | RRF100 = VY023665.D |        | RRF150 = VY023666.D |       |       |  |
| COMPOUND                       | RRF005 | RRF010              | RRF020 | RRF050              | RRF100 | RRF150              | RRF   | % RSD |  |
| Dichlorodifluoromethane        | 0.391  | 0.380               | 0.373  | 0.275               | 0.284  | 0.266               | 0.328 | 17.9  |  |
| Chloromethane                  | 0.537  | 0.510               | 0.489  | 0.413               | 0.424  | 0.382               | 0.459 | 13.4  |  |
| Vinyl Chloride                 | 0.680  | 0.662               | 0.633  | 0.547               | 0.556  | 0.508               | 0.598 | 11.7  |  |
| Ethyl Acetate                  | 0.158  | 0.151               | 0.161  | 0.155               | 0.173  | 0.172               | 0.162 | 5.6   |  |
| Isopropyl Acetate              | 0.280  | 0.267               | 0.306  | 0.295               | 0.336  | 0.338               | 0.304 | 9.6   |  |
| Bromomethane                   | 0.587  | 0.555               | 0.530  | 0.443               | 0.464  | 0.437               | 0.503 | 12.5  |  |
| Chloroethane                   | 0.458  | 0.455               | 0.432  | 0.386               | 0.393  | 0.354               | 0.413 | 10.1  |  |
| Tetrahydrofuran                | 0.061  | 0.059               | 0.068  | 0.062               | 0.072  | 0.070               | 0.065 | 8.6   |  |
| Trichlorofluoromethane         | 0.937  | 0.908               | 0.887  | 0.780               | 0.782  | 0.756               | 0.842 | 9.2   |  |
| 1,1,2-Trichlorotrifluoroethane | 0.519  | 0.506               | 0.471  | 0.433               | 0.439  | 0.414               | 0.464 | 9.1   |  |
| Tert butyl alcohol             | 0.035  | 0.027               | 0.027  | 0.023               | 0.026  | 0.027               | 0.028 | 15.1  |  |
| Diethyl Ether                  | 0.232  | 0.228               | 0.232  | 0.212               | 0.230  | 0.219               | 0.226 | 3.6   |  |
| 1,1-Dichloroethene             | 0.476  | 0.462               | 0.462  | 0.421               | 0.441  | 0.419               | 0.447 | 5.2   |  |
| Acrolein                       | 0.041  | 0.036               | 0.039  | 0.030               | 0.034  | 0.033               | 0.035 | 12    |  |
| Acrylonitrile                  | 0.087  | 0.079               | 0.090  | 0.081               | 0.092  | 0.089               | 0.086 | 5.8   |  |
| Acetone                        | 0.115  | 0.106               | 0.115  | 0.094               | 0.105  | 0.102               | 0.106 | 7.4   |  |
| Carbon Disulfide               | 1.479  | 1.468               | 1.424  | 1.288               | 1.330  | 1.237               | 1.371 | 7.3   |  |
| Methyl tert-butyl Ether        | 0.980  | 0.945               | 1.059  | 1.008               | 1.132  | 1.091               | 1.036 | 6.8   |  |
| Methyl Acetate                 | 0.221  | 0.206               | 0.292  | 0.210               | 0.256  | 0.218               | 0.234 | 14.4  |  |
| Methylene Chloride             | 0.652  | 0.532               | 0.515  | 0.460               | 0.476  | 0.436               | 0.512 | 15.1  |  |
| trans-1,2-Dichloroethene       | 0.512  | 0.515               | 0.519  | 0.487               | 0.510  | 0.479               | 0.504 | 3.3   |  |
| Vinyl Acetate                  | 0.585  | 0.589               | 0.631  | 0.652               | 0.716  | 0.706               | 0.647 | 8.7   |  |
| 1,1-Dichloroethane             | 0.855  | 0.818               | 0.822  | 0.775               | 0.813  | 0.760               | 0.807 | 4.3   |  |
| Cyclohexane                    | 0.789  | 0.719               | 0.692  | 0.662               | 0.695  | 0.660               | 0.703 | 6.8   |  |
| 2-Butanone                     | 0.128  | 0.113               | 0.130  | 0.111               | 0.127  | 0.127               | 0.123 | 6.8   |  |
| Carbon Tetrachloride           | 0.516  | 0.491               | 0.501  | 0.477               | 0.494  | 0.473               | 0.492 | 3.2   |  |
| 2,2-Dichloropropane            | 0.799  | 0.758               | 0.742  | 0.709               | 0.739  | 0.708               | 0.742 | 4.6   |  |
| cis-1,2-Dichloroethene         | 0.571  | 0.582               | 0.574  | 0.560               | 0.599  | 0.564               | 0.575 | 2.4   |  |
| Bromochloromethane             | 0.317  | 0.329               | 0.329  | 0.290               | 0.311  | 0.279               | 0.309 | 6.7   |  |
| Chloroform                     | 0.957  | 0.934               | 0.919  | 0.863               | 0.898  | 0.833               | 0.901 | 5.1   |  |

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



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

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03  
 Lab Code: ACE SDG No.: Q3483  
 Instrument ID: MSVOA\_Y Calibration Date(s): 11/04/2025 11/04/2025  
 Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:              |  | RRF005 = VY023661.D |        | RRF010 = VY023662.D |        | RRF020 = VY023663.D |        | RRF050 = VY023664.D |       | RRF100 = VY023665.D |  | RRF150 = VY023666.D |  |
|---------------------------|--|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|---------------------|--|---------------------|--|
| COMPOUND                  |  | RRF005              | RRF010 | RRF020              | RRF050 | RRF100              | RRF150 | RRF                 | % RSD |                     |  |                     |  |
| 1,1,1-Trichloroethane     |  | 0.852               | 0.833  | 0.820               | 0.769  | 0.803               | 0.753  | 0.805               | 4.7   |                     |  |                     |  |
| Methylcyclohexane         |  | 0.499               | 0.495  | 0.536               | 0.539  | 0.569               | 0.563  | 0.534               | 5.8   |                     |  |                     |  |
| 1,1-Dichloropropene       |  | 0.426               | 0.416  | 0.427               | 0.409  | 0.422               | 0.405  | 0.418               | 2.1   |                     |  |                     |  |
| Benzene                   |  | 1.323               | 1.322  | 1.355               | 1.287  | 1.345               | 1.265  | 1.316               | 2.6   |                     |  |                     |  |
| 1,2-Dichloroethane        |  | 0.343               | 0.331  | 0.344               | 0.321  | 0.339               | 0.320  | 0.333               | 3.3   |                     |  |                     |  |
| Trichloroethene           |  | 0.398               | 0.383  | 0.387               | 0.366  | 0.377               | 0.358  | 0.378               | 3.8   |                     |  |                     |  |
| 1,2-Dichloropropane       |  | 0.294               | 0.285  | 0.300               | 0.284  | 0.297               | 0.283  | 0.290               | 2.6   |                     |  |                     |  |
| Dibromomethane            |  | 0.183               | 0.172  | 0.191               | 0.173  | 0.185               | 0.176  | 0.180               | 4.2   |                     |  |                     |  |
| Bromodichloromethane      |  | 0.456               | 0.442  | 0.471               | 0.444  | 0.469               | 0.441  | 0.454               | 3     |                     |  |                     |  |
| 4-Methyl-2-Pentanone      |  | 0.143               | 0.136  | 0.170               | 0.158  | 0.181               | 0.180  | 0.162               | 11.8  |                     |  |                     |  |
| Methyl methacrylate       |  | 0.119               | 0.117  | 0.146               | 0.146  | 0.165               | 0.169  | 0.143               | 15.3  |                     |  |                     |  |
| Toluene                   |  | 0.761               | 0.813  | 0.874               | 0.854  | 0.898               | 0.842  | 0.840               | 5.7   |                     |  |                     |  |
| t-1,3-Dichloropropene     |  | 0.346               | 0.349  | 0.389               | 0.387  | 0.426               | 0.407  | 0.384               | 8.2   |                     |  |                     |  |
| cis-1,3-Dichloropropene   |  | 0.419               | 0.434  | 0.475               | 0.463  | 0.495               | 0.474  | 0.460               | 6.1   |                     |  |                     |  |
| 1,1,2-Trichloroethane     |  | 0.244               | 0.230  | 0.250               | 0.234  | 0.249               | 0.236  | 0.241               | 3.5   |                     |  |                     |  |
| 1,3-Dichloropropane       |  | 0.375               | 0.363  | 0.401               | 0.376  | 0.399               | 0.376  | 0.381               | 3.9   |                     |  |                     |  |
| 2-Chloroethyl Vinyl ether |  | 0.094               | 0.097  | 0.119               | 0.127  | 0.146               | 0.146  | 0.122               | 18.7  |                     |  |                     |  |
| 2-Hexanone                |  | 0.101               | 0.099  | 0.127               | 0.115  | 0.132               | 0.133  | 0.118               | 12.9  |                     |  |                     |  |
| Dibromochloromethane      |  | 0.325               | 0.314  | 0.342               | 0.326  | 0.347               | 0.329  | 0.330               | 3.7   |                     |  |                     |  |
| 1,2-Dibromoethane         |  | 0.221               | 0.208  | 0.240               | 0.222  | 0.238               | 0.226  | 0.226               | 5.3   |                     |  |                     |  |
| Tetrachloroethene         |  | 0.554               | 0.549  | 0.545               | 0.512  | 0.500               | 0.462  | 0.520               | 6.9   |                     |  |                     |  |
| Chlorobenzene             |  | 1.096               | 1.095  | 1.109               | 1.067  | 1.107               | 1.057  | 1.089               | 2     |                     |  |                     |  |
| 1,1,1,2-Tetrachloroethane |  | 0.396               | 0.380  | 0.387               | 0.377  | 0.394               | 0.376  | 0.385               | 2.3   |                     |  |                     |  |
| Hexachloroethane          |  | 0.657               | 0.656  | 0.632               | 0.639  | 0.664               | 0.648  | 0.649               | 1.8   |                     |  |                     |  |
| Ethyl Benzene             |  | 1.589               | 1.661  | 1.787               | 1.807  | 1.908               | 1.819  | 1.762               | 6.6   |                     |  |                     |  |
| m/p-Xylenes               |  | 0.618               | 0.671  | 0.722               | 0.727  | 0.757               | 0.727  | 0.704               | 7.1   |                     |  |                     |  |
| o-Xylene                  |  | 0.562               | 0.600  | 0.659               | 0.674  | 0.717               | 0.691  | 0.651               | 9     |                     |  |                     |  |
| Styrene                   |  | 0.903               | 0.979  | 1.110               | 1.121  | 1.184               | 1.145  | 1.074               | 10.1  |                     |  |                     |  |
| Bromoform                 |  | 0.222               | 0.209  | 0.230               | 0.219  | 0.238               | 0.231  | 0.225               | 4.5   |                     |  |                     |  |
| Isopropylbenzene          |  | 2.940               | 3.203  | 3.298               | 3.461  | 3.641               | 3.521  | 3.344               | 7.6   |                     |  |                     |  |

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



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.: Q3483  
 Instrument ID: MSVOA\_Y Calibration Date(s): 11/04/2025 11/04/2025  
 Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27  
 GC Column: RXI-624 ID: 0.25 (mm)

| LAB FILE ID:                |  | RRF005 = VY023661.D |        | RRF010 = VY023662.D |        | RRF020 = VY023663.D |        | RRF050 = VY023664.D |       | RRF100 = VY023665.D |  | RRF150 = VY023666.D |  |
|-----------------------------|--|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|---------------------|--|---------------------|--|
| COMPOUND                    |  | RRF005              | RRF010 | RRF020              | RRF050 | RRF100              | RRF150 | RRF                 | % RSD |                     |  |                     |  |
| 1,1,2,2-Tetrachloroethane   |  | 0.553               | 0.494  | 0.522               | 0.503  | 0.569               | 0.564  | 0.534               | 6     |                     |  |                     |  |
| 1,2,3-Trichloropropane      |  | 0.403               | 0.453  | 0.410               | 0.373  | 0.397               | 0.391  | 0.405               | 6.6   |                     |  |                     |  |
| Bromobenzene                |  | 0.837               | 0.855  | 0.850               | 0.862  | 0.915               | 0.885  | 0.867               | 3.2   |                     |  |                     |  |
| n-propylbenzene             |  | 3.526               | 3.781  | 3.927               | 4.085  | 4.205               | 4.076  | 3.934               | 6.3   |                     |  |                     |  |
| 2-Chlorotoluene             |  | 2.100               | 2.244  | 2.288               | 2.325  | 2.407               | 2.332  | 2.283               | 4.6   |                     |  |                     |  |
| 1,3,5-Trimethylbenzene      |  | 2.330               | 2.604  | 2.734               | 2.834  | 2.943               | 2.857  | 2.717               | 8.2   |                     |  |                     |  |
| 4-Chlorotoluene             |  | 2.193               | 2.325  | 2.382               | 2.387  | 2.455               | 2.383  | 2.354               | 3.8   |                     |  |                     |  |
| tert-Butylbenzene           |  | 2.172               | 2.326  | 2.402               | 2.558  | 2.717               | 2.674  | 2.475               | 8.6   |                     |  |                     |  |
| 1,2,4-Trimethylbenzene      |  | 2.248               | 2.601  | 2.701               | 2.819  | 2.931               | 2.846  | 2.691               | 9.1   |                     |  |                     |  |
| sec-Butylbenzene            |  | 3.176               | 3.473  | 3.539               | 3.675  | 3.830               | 3.722  | 3.569               | 6.5   |                     |  |                     |  |
| p-Isopropyltoluene          |  | 2.577               | 2.830  | 3.007               | 3.166  | 3.291               | 3.258  | 3.022               | 9.2   |                     |  |                     |  |
| 1,3-Dichlorobenzene         |  | 1.680               | 1.703  | 1.714               | 1.694  | 1.744               | 1.709  | 1.707               | 1.3   |                     |  |                     |  |
| 1,4-Dichlorobenzene         |  | 1.752               | 1.685  | 1.666               | 1.652  | 1.679               | 1.630  | 1.677               | 2.5   |                     |  |                     |  |
| n-Butylbenzene              |  | 2.293               | 2.441  | 2.557               | 2.752  | 2.877               | 2.844  | 2.627               | 8.9   |                     |  |                     |  |
| 1,2-Dichlorobenzene         |  | 1.468               | 1.467  | 1.488               | 1.454  | 1.494               | 1.457  | 1.471               | 1.1   |                     |  |                     |  |
| 1,2-Dibromo-3-Chloropropane |  | 0.085               | 0.076  | 0.083               | 0.076  | 0.086               | 0.086  | 0.082               | 5.7   |                     |  |                     |  |
| 1,2,4-Trichlorobenzene      |  | 0.738               | 0.747  | 0.835               | 0.853  | 0.933               | 0.944  | 0.842               | 10.5  |                     |  |                     |  |
| Hexachlorobutadiene         |  | 0.561               | 0.551  | 0.538               | 0.552  | 0.560               | 0.546  | 0.551               | 1.6   |                     |  |                     |  |
| Naphthalene                 |  | 0.956               | 0.948  | 1.187               | 1.298  | 1.546               | 1.610  | 1.257               | 22.5  |                     |  |                     |  |
| 1,2,3-Trichlorobenzene      |  | 0.619               | 0.611  | 0.698               | 0.717  | 0.782               | 0.791  | 0.703               | 10.9  |                     |  |                     |  |
| 1,2-Dichloroethane-d4       |  | 0.468               | 0.425  | 0.426               | 0.407  | 0.425               | 0.407  | 0.427               | 5.3   |                     |  |                     |  |
| Dibromofluoromethane        |  | 0.312               | 0.316  | 0.312               | 0.310  | 0.318               | 0.308  | 0.312               | 1.2   |                     |  |                     |  |
| Toluene-d8                  |  | 1.109               | 1.148  | 1.155               | 1.189  | 1.224               | 1.159  | 1.164               | 3.3   |                     |  |                     |  |
| 4-Bromofluorobenzene        |  | 0.354               | 0.354  | 0.379               | 0.388  | 0.400               | 0.385  | 0.376               | 5     |                     |  |                     |  |
| N-amyl acetate              |  | 0.455               | 0.481  | 0.523               | 0.577  | 0.663               | 0.698  | 0.566               | 17.4  |                     |  |                     |  |
| Methyl Iodide               |  | 0.491               | 0.546  | 0.558               | 0.573  | 0.585               | 0.533  | 0.548               | 6.1   |                     |  |                     |  |
| Allyl chloride              |  | 0.530               | 0.534  | 0.549               | 0.527  | 0.577               | 0.545  | 0.544               | 3.4   |                     |  |                     |  |
| trans-1,4-Dichloro-2-butene |  | 0.173               | 0.169  | 0.172               | 0.172  | 0.192               | 0.196  | 0.179               | 6.6   |                     |  |                     |  |
| Methacrylonitrile           |  | 0.083               | 0.079  | 0.086               | 0.084  | 0.098               | 0.100  | 0.088               | 9.7   |                     |  |                     |  |
| Diisopropyl ether           |  | 1.097               | 1.167  | 1.263               | 1.222  | 1.305               | 1.215  | 1.212               | 6     |                     |  |                     |  |

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



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.: Q3483  
 Instrument ID: MSVOA\_Y Calibration Date(s): 11/04/2025 11/04/2025  
 Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27  
 GC Column: RXI-624 ID: 0.25 (mm)

|                     |        |        |                     |        |        |                     |       |       |
|---------------------|--------|--------|---------------------|--------|--------|---------------------|-------|-------|
| LAB FILE ID:        |        |        |                     |        |        |                     |       |       |
| RRF005 = VY023661.D |        |        | RRF010 = VY023662.D |        |        | RRF020 = VY023663.D |       |       |
| RRF050 = VY023664.D |        |        | RRF100 = VY023665.D |        |        | RRF150 = VY023666.D |       |       |
| COMPOUND            | RRF005 | RRF010 | RRF020              | RRF050 | RRF100 | RRF150              | RRF   | % RSD |
| 1,4-Dioxane         | 1.791  | 1.574  | 1.861               | 1.800  | 1.992  | 2.033               | 1.842 | 8.9   |

\* 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\_Y\methods\  
 Method File : 82Y110425S.M  
 Title : SW846 8260  
 Last Update : Wed Nov 05 04:41:50 2025  
 Response Via : Initial Calibration

## Calibration Files

5 =VY023661.D 10 =VY023662.D 20 =VY023663.D 50 =VY023664.D 100 =VY023665.D 150 =VY023666.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.391          | 0.380 | 0.373 | 0.275 | 0.284 | 0.266 | 0.328 | 17.90  |
| 3) P   | Chloromethane       | 0.537          | 0.510 | 0.489 | 0.413 | 0.424 | 0.382 | 0.459 | 13.38  |
| 4) C   | Vinyl Chloride      | 0.680          | 0.662 | 0.633 | 0.547 | 0.556 | 0.508 | 0.598 | 11.68# |
| 5) T   | Bromomethane        | 0.587          | 0.555 | 0.530 | 0.443 | 0.464 | 0.437 | 0.503 | 12.53  |
| 6) T   | Chloroethane        | 0.458          | 0.455 | 0.432 | 0.386 | 0.393 | 0.354 | 0.413 | 10.08  |
| 7) T   | Trichlorofluor...   | 0.937          | 0.908 | 0.887 | 0.780 | 0.782 | 0.756 | 0.842 | 9.25   |
| 8) T   | Diethyl Ether       | 0.232          | 0.228 | 0.232 | 0.212 | 0.230 | 0.219 | 0.226 | 3.58   |
| 9) T   | 1,1,2-Trichlor...   | 0.519          | 0.506 | 0.471 | 0.433 | 0.439 | 0.414 | 0.464 | 9.09   |
| 10) T  | Methyl Iodide       | 0.491          | 0.546 | 0.558 | 0.573 | 0.585 | 0.533 | 0.548 | 6.10   |
| 11) T  | Tert butyl alc...   | 0.035          | 0.027 | 0.027 | 0.023 | 0.026 | 0.027 | 0.028 | 15.05  |
| 12) CM | 1,1-Dichloroet...   | 0.476          | 0.462 | 0.462 | 0.421 | 0.441 | 0.419 | 0.447 | 5.23#  |
| 13) T  | Acrolein            | 0.041          | 0.036 | 0.039 | 0.030 | 0.034 | 0.033 | 0.035 | 12.04  |
| 14) T  | Allyl chloride      | 0.530          | 0.534 | 0.549 | 0.527 | 0.577 | 0.545 | 0.544 | 3.38   |
| 15) T  | Acrylonitrile       | 0.087          | 0.079 | 0.090 | 0.081 | 0.092 | 0.089 | 0.086 | 5.76   |
| 16) T  | Acetone             | 0.115          | 0.106 | 0.115 | 0.094 | 0.105 | 0.102 | 0.106 | 7.41   |
| 17) T  | Carbon Disulfide    | 1.479          | 1.468 | 1.424 | 1.288 | 1.330 | 1.237 | 1.371 | 7.32   |
| 18) T  | Methyl Acetate      | 0.221          | 0.206 | 0.292 | 0.210 | 0.256 | 0.218 | 0.234 | 14.40  |
| 19) T  | Methyl tert-bu...   | 0.980          | 0.945 | 1.059 | 1.008 | 1.132 | 1.091 | 1.036 | 6.81   |
| 20) T  | Methylene Chlo...   | 0.652          | 0.532 | 0.515 | 0.460 | 0.476 | 0.436 | 0.512 | 15.09  |
| 21) T  | trans-1,2-Dich...   | 0.512          | 0.515 | 0.519 | 0.487 | 0.510 | 0.479 | 0.504 | 3.29   |
| 22) T  | Diisopropyl ether   | 1.097          | 1.167 | 1.263 | 1.222 | 1.305 | 1.215 | 1.212 | 6.04   |
| 23) T  | Vinyl Acetate       | 0.585          | 0.589 | 0.631 | 0.652 | 0.716 | 0.706 | 0.647 | 8.69   |
| 24) P  | 1,1-Dichloroet...   | 0.855          | 0.818 | 0.822 | 0.775 | 0.813 | 0.760 | 0.807 | 4.27   |
| 25) T  | 2-Butanone          | 0.128          | 0.113 | 0.130 | 0.111 | 0.127 | 0.127 | 0.123 | 6.79   |
| 26) T  | 2,2-Dichloropr...   | 0.799          | 0.758 | 0.742 | 0.709 | 0.739 | 0.708 | 0.742 | 4.56   |
| 27) T  | cis-1,2-Dichlo...   | 0.571          | 0.582 | 0.574 | 0.560 | 0.599 | 0.564 | 0.575 | 2.42   |
| 28) T  | Bromochloromet...   | 0.317          | 0.329 | 0.329 | 0.290 | 0.311 | 0.279 | 0.309 | 6.68   |
| 29) T  | Tetrahydrofuran     | 0.061          | 0.059 | 0.068 | 0.062 | 0.072 | 0.070 | 0.065 | 8.58   |
| 30) C  | Chloroform          | 0.957          | 0.934 | 0.919 | 0.863 | 0.898 | 0.833 | 0.901 | 5.14#  |
| 31) T  | Cyclohexane         | 0.789          | 0.719 | 0.692 | 0.662 | 0.695 | 0.660 | 0.703 | 6.77   |
| 32) T  | 1,1,1-Trichlor...   | 0.852          | 0.833 | 0.820 | 0.769 | 0.803 | 0.753 | 0.805 | 4.72   |
| 33) S  | 1,2-Dichloroet...   | 0.468          | 0.425 | 0.426 | 0.407 | 0.425 | 0.407 | 0.427 | 5.27   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.312          | 0.316 | 0.312 | 0.310 | 0.318 | 0.308 | 0.312 | 1.23   |
| 36) T  | 1,1-Dichloropr...   | 0.426          | 0.416 | 0.427 | 0.409 | 0.422 | 0.405 | 0.418 | 2.15   |
| 37) T  | Ethyl Acetate       | 0.158          | 0.151 | 0.161 | 0.155 | 0.173 | 0.172 | 0.162 | 5.64   |
| 38) T  | Carbon Tetrach...   | 0.516          | 0.491 | 0.501 | 0.477 | 0.494 | 0.473 | 0.492 | 3.21   |
| 39) T  | Methylcyclohexane   | 0.499          | 0.495 | 0.536 | 0.539 | 0.569 | 0.563 | 0.534 | 5.79   |
| 40) TM | Benzene             | 1.323          | 1.322 | 1.355 | 1.287 | 1.345 | 1.265 | 1.316 | 2.60   |
| 41) T  | Methacrylonitrile   | 0.083          | 0.079 | 0.086 | 0.084 | 0.098 | 0.100 | 0.088 | 9.67   |
| 42) TM | 1,2-Dichloroet...   | 0.343          | 0.331 | 0.344 | 0.321 | 0.339 | 0.320 | 0.333 | 3.29   |
| 43) T  | Isopropyl Acetate   | 0.280          | 0.267 | 0.306 | 0.295 | 0.336 | 0.338 | 0.304 | 9.59   |
| 44) TM | Trichloroethene     | 0.398          | 0.383 | 0.387 | 0.366 | 0.377 | 0.358 | 0.378 | 3.81   |
| 45) C  | 1,2-Dichloropr...   | 0.294          | 0.285 | 0.300 | 0.284 | 0.297 | 0.283 | 0.290 | 2.56#  |
| 46) T  | Dibromomethane      | 0.183          | 0.172 | 0.191 | 0.173 | 0.185 | 0.176 | 0.180 | 4.19   |
| 47) T  | Bromodichlorom...   | 0.456          | 0.442 | 0.471 | 0.444 | 0.469 | 0.441 | 0.454 | 3.01   |
| 48) T  | Methyl methacr...   | 0.119          | 0.117 | 0.146 | 0.146 | 0.165 | 0.169 | 0.143 | 15.27  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 8.93   |
| 50) S  | Toluene-d8          | 1.109          | 1.148 | 1.155 | 1.189 | 1.224 | 1.159 | 1.164 | 3.34   |
| 51) T  | 4-Methyl-2-Pen...   | 0.143          | 0.136 | 0.170 | 0.158 | 0.181 | 0.180 | 0.162 | 11.80  |
| 52) CM | Toluene             | 0.761          | 0.813 | 0.874 | 0.854 | 0.898 | 0.842 | 0.840 | 5.74#  |
| 53) T  | t-1,3-Dichloro...   | 0.346          | 0.349 | 0.389 | 0.387 | 0.426 | 0.407 | 0.384 | 8.18   |
| 54) T  | cis-1,3-Dichlo...   | 0.419          | 0.434 | 0.475 | 0.463 | 0.495 | 0.474 | 0.460 | 6.13   |
| 55) T  | 1,1,2-Trichlor...   | 0.244          | 0.230 | 0.250 | 0.234 | 0.249 | 0.236 | 0.241 | 3.46   |
| 56) T  | Ethyl methacry...   | 0.208          | 0.204 | 0.261 | 0.276 | 0.318 | 0.323 | 0.265 | 19.45  |

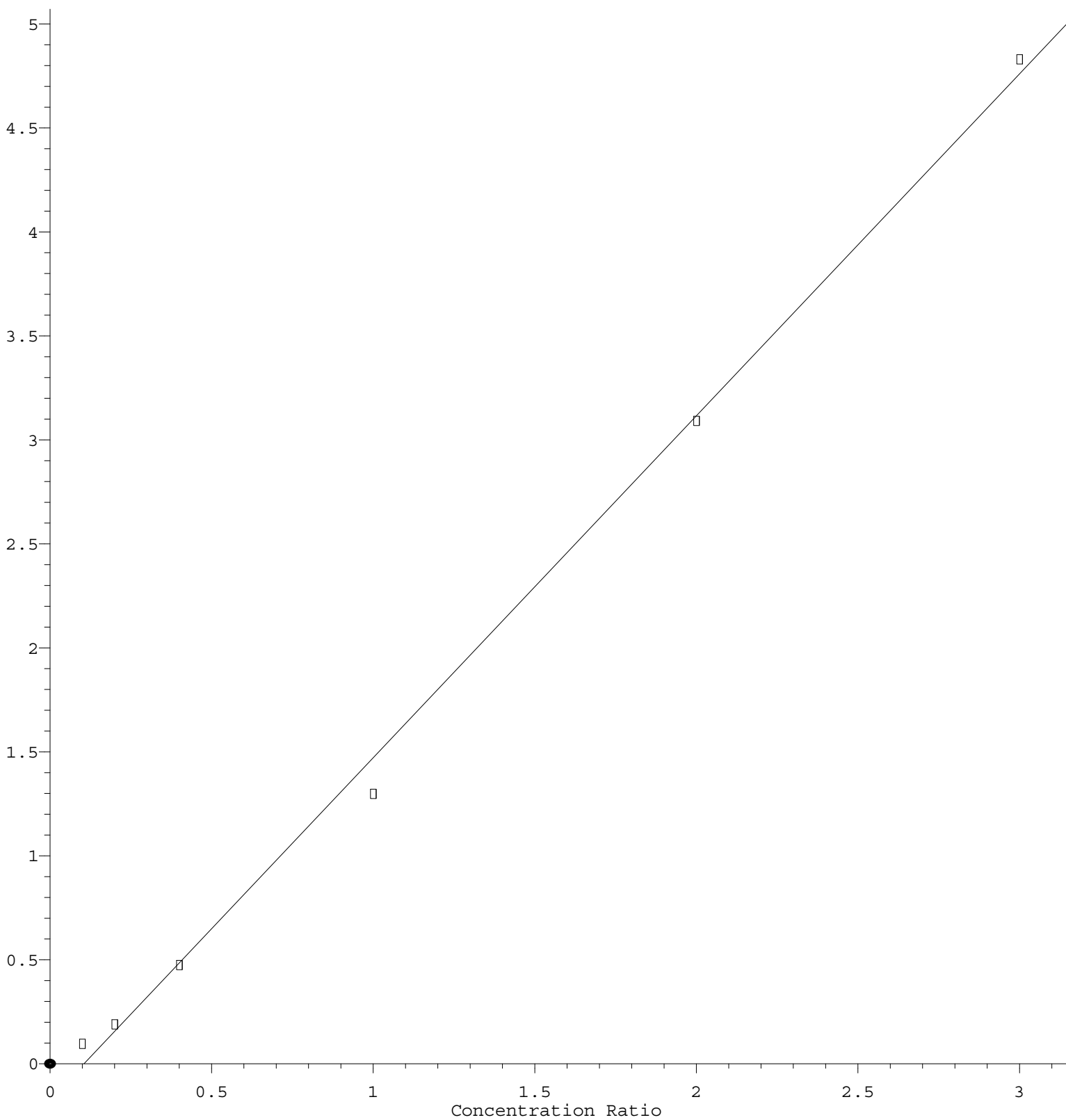
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y110425S.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.375          | 0.363 | 0.401 | 0.376 | 0.399 | 0.376 | 0.381 | 3.94  |
| 58) | T  | 2-Chloroethyl ...     | 0.094          | 0.097 | 0.119 | 0.127 | 0.146 | 0.146 | 0.122 | 18.71 |
| 59) | T  | 2-Hexanone            | 0.101          | 0.099 | 0.127 | 0.114 | 0.132 | 0.133 | 0.118 | 12.88 |
| 60) | T  | Dibromochlorom...     | 0.325          | 0.314 | 0.342 | 0.326 | 0.347 | 0.329 | 0.330 | 3.67  |
| 61) | T  | 1,2-Dibromoethane     | 0.221          | 0.208 | 0.240 | 0.222 | 0.238 | 0.226 | 0.226 | 5.28  |
| 62) | S  | 4-Bromofluorob...     | 0.354          | 0.354 | 0.379 | 0.388 | 0.400 | 0.385 | 0.376 | 5.04  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.554          | 0.549 | 0.545 | 0.512 | 0.500 | 0.462 | 0.520 | 6.87  |
| 65) | PM | Chlorobenzene         | 1.096          | 1.095 | 1.109 | 1.067 | 1.107 | 1.057 | 1.088 | 1.97  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.396          | 0.380 | 0.387 | 0.377 | 0.394 | 0.376 | 0.385 | 2.25  |
| 67) | C  | Ethyl Benzene         | 1.589          | 1.661 | 1.787 | 1.807 | 1.908 | 1.819 | 1.762 | 6.59# |
| 68) | T  | m/p-Xylenes           | 0.618          | 0.671 | 0.722 | 0.727 | 0.757 | 0.727 | 0.704 | 7.13  |
| 69) | T  | o-Xylene              | 0.562          | 0.600 | 0.659 | 0.674 | 0.717 | 0.691 | 0.651 | 9.02  |
| 70) | T  | Styrene               | 0.903          | 0.979 | 1.110 | 1.121 | 1.184 | 1.145 | 1.074 | 10.12 |
| 71) | P  | Bromoform             | 0.222          | 0.209 | 0.230 | 0.219 | 0.238 | 0.231 | 0.225 | 4.47  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 2.940          | 3.203 | 3.298 | 3.461 | 3.641 | 3.521 | 3.344 | 7.55  |
| 74) | T  | N-amyl acetate        | 0.455          | 0.481 | 0.523 | 0.577 | 0.663 | 0.698 | 0.566 | 17.36 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.553          | 0.494 | 0.522 | 0.503 | 0.569 | 0.564 | 0.534 | 6.05  |
| 76) | T  | 1,2,3-Trichlor...     | 0.403          | 0.453 | 0.410 | 0.373 | 0.397 | 0.391 | 0.405 | 6.62  |
| 77) | T  | Bromobenzene          | 0.837          | 0.855 | 0.850 | 0.862 | 0.915 | 0.885 | 0.867 | 3.25  |
| 78) | T  | n-propylbenzene       | 3.526          | 3.781 | 3.927 | 4.085 | 4.205 | 4.076 | 3.933 | 6.30  |
| 79) | T  | 2-Chlorotoluene       | 2.100          | 2.244 | 2.288 | 2.325 | 2.407 | 2.332 | 2.283 | 4.58  |
| 80) | T  | 1,3,5-Trimethy...     | 2.330          | 2.604 | 2.734 | 2.834 | 2.943 | 2.857 | 2.717 | 8.18  |
| 81) | T  | trans-1,4-Dich...     | 0.173          | 0.169 | 0.172 | 0.172 | 0.192 | 0.196 | 0.179 | 6.63  |
| 82) | T  | 4-Chlorotoluene       | 2.193          | 2.325 | 2.382 | 2.387 | 2.455 | 2.383 | 2.354 | 3.79  |
| 83) | T  | tert-Butylbenzene     | 2.172          | 2.326 | 2.402 | 2.558 | 2.717 | 2.674 | 2.475 | 8.56  |
| 84) | T  | 1,2,4-Trimethy...     | 2.248          | 2.601 | 2.701 | 2.819 | 2.931 | 2.846 | 2.691 | 9.13  |
| 85) | T  | sec-Butylbenzene      | 3.176          | 3.473 | 3.539 | 3.675 | 3.830 | 3.722 | 3.569 | 6.47  |
| 86) | T  | p-Isopropyltol...     | 2.577          | 2.830 | 3.007 | 3.166 | 3.291 | 3.258 | 3.022 | 9.17  |
| 87) | T  | 1,3-Dichlorobe...     | 1.680          | 1.703 | 1.714 | 1.694 | 1.744 | 1.709 | 1.707 | 1.28  |
| 88) | T  | 1,4-Dichlorobe...     | 1.752          | 1.685 | 1.666 | 1.652 | 1.679 | 1.630 | 1.677 | 2.49  |
| 89) | T  | n-Butylbenzene        | 2.293          | 2.441 | 2.557 | 2.752 | 2.877 | 2.844 | 2.627 | 8.95  |
| 90) | T  | Hexachloroethane      | 0.657          | 0.656 | 0.632 | 0.639 | 0.664 | 0.648 | 0.649 | 1.85  |
| 91) | T  | 1,2-Dichlorobe...     | 1.468          | 1.467 | 1.488 | 1.454 | 1.494 | 1.457 | 1.471 | 1.12  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.085          | 0.076 | 0.083 | 0.076 | 0.086 | 0.086 | 0.082 | 5.72  |
| 93) | T  | 1,2,4-Trichlor...     | 0.738          | 0.747 | 0.835 | 0.853 | 0.933 | 0.944 | 0.842 | 10.46 |
| 94) | T  | Hexachlorobuta...     | 0.561          | 0.551 | 0.538 | 0.552 | 0.560 | 0.546 | 0.551 | 1.58  |
| 95) | T  | Naphthalene           | 0.956          | 0.948 | 1.187 | 1.298 | 1.546 | 1.610 | 1.257 | 22.51 |
| 96) | T  | 1,2,3-Trichlor...     | 0.619          | 0.611 | 0.698 | 0.717 | 0.782 | 0.791 | 0.703 | 10.93 |

(#) = Out of Range

# Naphthalene

Response Ratio



$$\text{Response} = 1.644\text{e}+000 * \text{Amt} - 1.730\text{e}-001$$

Coef of Det ( $r^2$ ) = 0.997394 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y110425S.M

Calibration Table Last Updated: Wed Nov 05 04:41:50 2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023661.D  
 Acq On : 04 Nov 2025 09:19  
 Operator : SY/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 510707     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 780075     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 667589     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 326953     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 23922      | 5.491    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.980%# |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 24311      | 4.987    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 9.980%#  |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 86542      | 4.766    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 9.540%#  |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 27590      | 4.698    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 9.400%#  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 19990      | 5.963    | ug/l   | 97       |
| 3) Chloromethane             | 2.074          | 50   | 27439      | 5.849    | ug/l   | 91       |
| 4) Vinyl Chloride            | 2.208          | 62   | 34731      | 5.689    | ug/l   | 99       |
| 5) Bromomethane              | 2.599          | 94   | 29962      | 5.835    | ug/l   | 98       |
| 6) Chloroethane              | 2.739          | 64   | 23388      | 5.543    | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 47868      | 5.568    | ug/l   | 95       |
| 8) Diethyl Ether             | 3.464          | 74   | 11851      | 5.140    | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 3.824          | 101  | 26531      | 5.601    | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 25054      | 4.479    | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 9027       | 32.136   | ug/l # | 74       |
| 12) 1,1-Dichloroethene       | 3.800          | 96   | 24289      | 5.323    | ug/l   | 89       |
| 13) Acrolein                 | 3.653          | 56   | 10439      | 28.913   | ug/l   | 98       |
| 14) Allyl chloride           | 4.385          | 41   | 27044      | 4.869    | ug/l   | 99       |
| 15) Acrylonitrile            | 5.068          | 53   | 22096      | 25.078   | ug/l   | 100      |
| 16) Acetone                  | 3.867          | 43   | 29389      | 27.140   | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.110          | 76   | 75554      | 5.395    | ug/l   | 96       |
| 18) Methyl Acetate           | 4.391          | 43   | 11286      | 4.725    | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 50027      | 4.728    | ug/l   | 97       |
| 20) Methylene Chloride       | 4.623          | 84   | 33305      | 6.371    | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 26157      | 5.084    | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.025          | 45   | 56019      | 4.527    | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.970          | 43   | 149457     | 22.631   | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 43679      | 5.298    | ug/l   | 99       |
| 25) 2-Butanone               | 6.897          | 43   | 32720      | 26.134   | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 40803      | 5.380    | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.897          | 96   | 29179      | 4.966    | ug/l   | 98       |
| 28) Bromochloromethane       | 7.250          | 49   | 16184      | 5.127    | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.275          | 42   | 15473      | 23.206   | ug/l   | 96       |
| 30) Chloroform               | 7.427          | 83   | 48896      | 5.316    | ug/l   | 93       |
| 31) Cyclohexane              | 7.707          | 56   | 40292      | 5.612    | ug/l # | 75       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 43512      | 5.292    | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 33214      | 5.099    | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.994          | 43   | 12363      | 4.902    | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 40263      | 5.246    | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.110          | 83   | 38956      | 4.680    | ug/l   | 95       |
| 40) Benzene                  | 8.079          | 78   | 103199     | 5.026    | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023661.D  
 Acq On : 04 Nov 2025 09:19  
 Operator : SY/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.232  | 41   | 6457     | 4.800  | ug/l # | 72       |
| 42) 1,2-Dichloroethane        | 8.159  | 62   | 26761    | 5.151  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 21814    | 4.604  | ug/l   | 96       |
| 44) Trichloroethene           | 8.866  | 130  | 31010    | 5.258  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 22961    | 5.067  | ug/l   | 93       |
| 46) Dibromomethane            | 9.238  | 93   | 14269    | 5.082  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.427  | 83   | 35539    | 5.020  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.225  | 41   | 9263     | 4.138  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 2794     | 97.232 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 55920    | 22.192 | ug/l   | 96       |
| 52) Toluene                   | 10.170 | 92   | 59389    | 4.530  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 27017    | 4.510  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 32719    | 4.559  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 19045    | 5.075  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 16257    | 3.932  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 29234    | 4.912  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 36528    | 19.254 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 39473    | 21.472 | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.908 | 129  | 25371    | 4.921  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 17256    | 4.900  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 36969    | 5.320  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 73160    | 5.034  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 26429    | 5.143  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 106047   | 4.508  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 82562    | 8.785  | ug/l   | 99       |
| 69) o-Xylene                  | 11.951 | 106  | 37501    | 4.317  | ug/l   | 98       |
| 70) Styrene                   | 11.969 | 104  | 60258    | 4.204  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 14838    | 4.944  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 96120    | 4.396  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 14878    | 4.019  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 18096    | 5.181  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 13170m   | 4.977  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 27375    | 4.826  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.591 | 91   | 115286   | 4.482  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 68648    | 4.599  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 76176    | 4.288  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 5654     | 4.829  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.774 | 91   | 71686    | 4.657  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 70998    | 4.388  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 73513    | 4.177  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 103852   | 4.450  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 84269    | 4.265  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 54916    | 4.919  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 57281    | 5.223  | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.615 | 91   | 74974    | 4.364  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 21483    | 5.060  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.658 | 146  | 47997    | 4.989  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 2763     | 5.138  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 24126    | 4.384  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 18339    | 5.086  | ug/l   | 98       |
| 95) Naphthalene               | 15.145 | 128  | 31252    | 8.168  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 20253    | 4.405  | ug/l   | 99       |

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Data File : VY023661.D  
Acq On : 04 Nov 2025 09:19  
Operator : SY/MD  
Sample : VSTDICC005  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:24:51 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

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

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

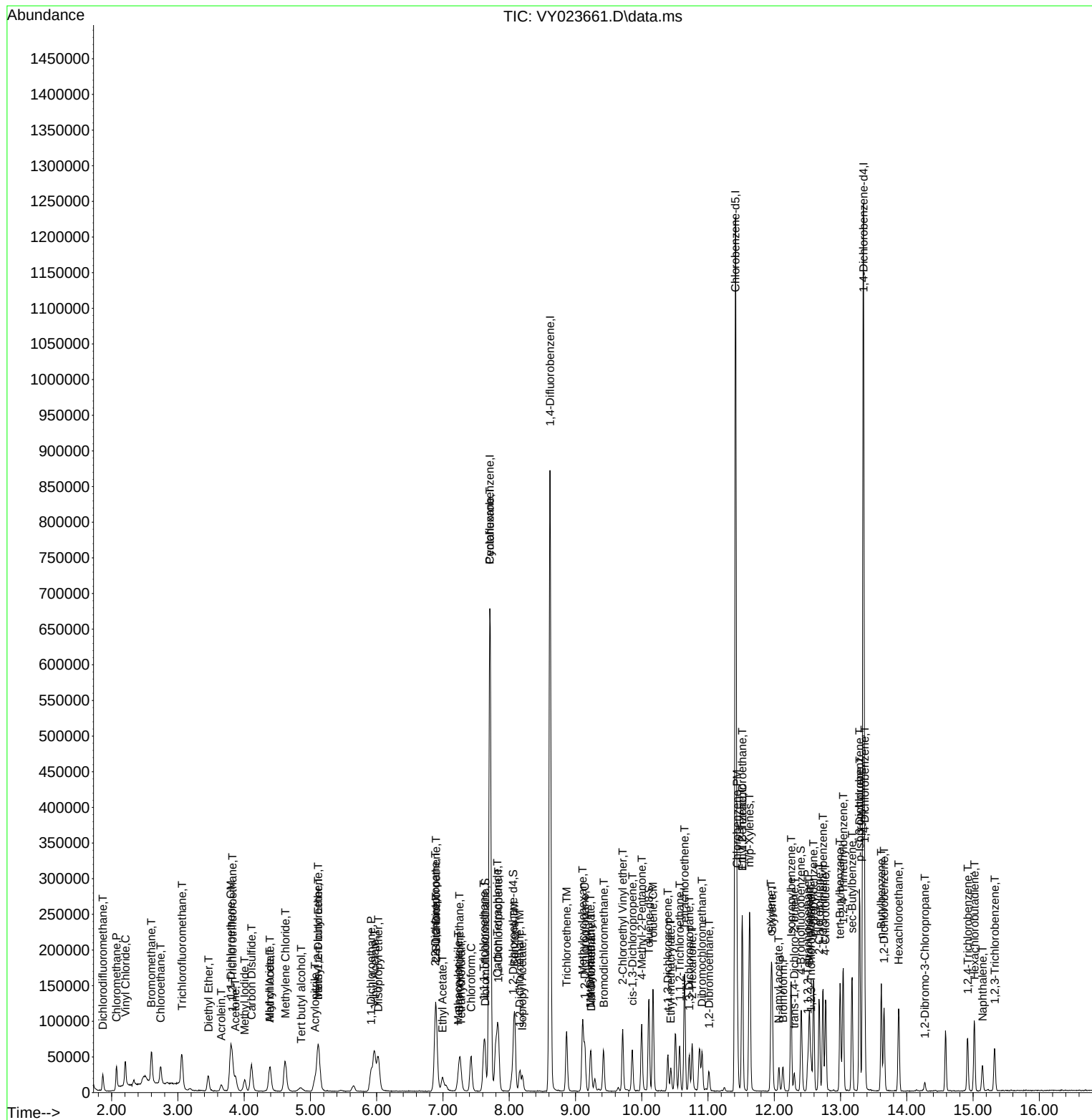
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Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

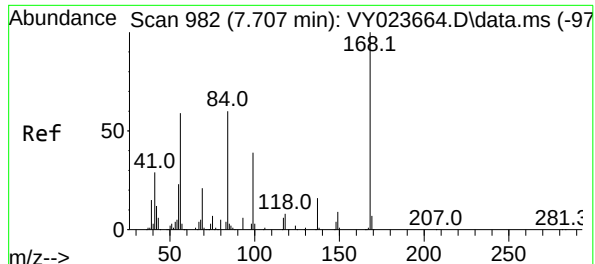
**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VSTDICC005

## Manual Integrations APPROVED

Reviewed By :Amit Patel    11/05/2025  
Supervised By :Mahesh Dadoda    11/05/2025

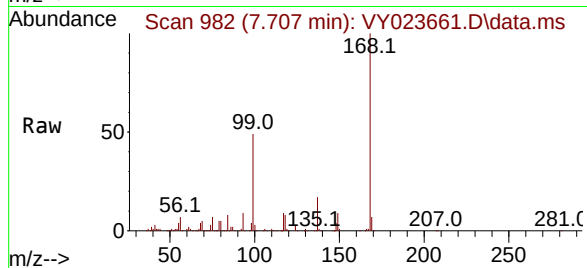
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

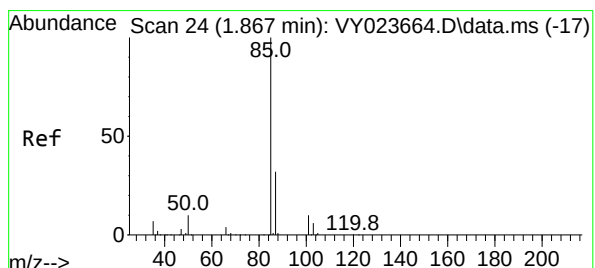
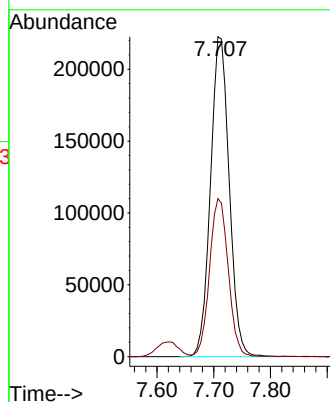
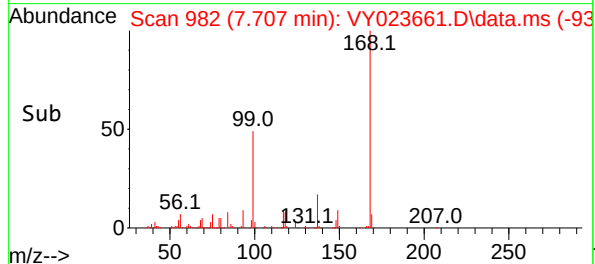
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005



Tgt Ion:168 Resp: 51070  
Ion Ratio Lower Upper  
168 100  
99 49.4 41.0 61.4

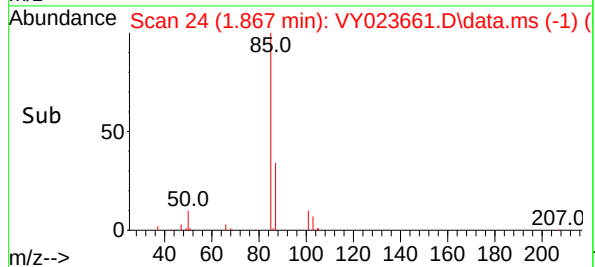
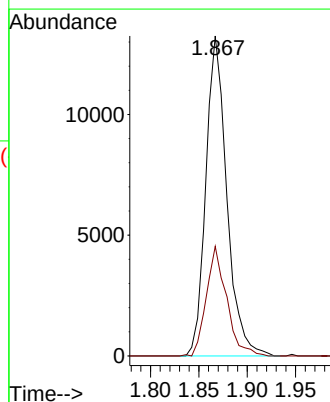
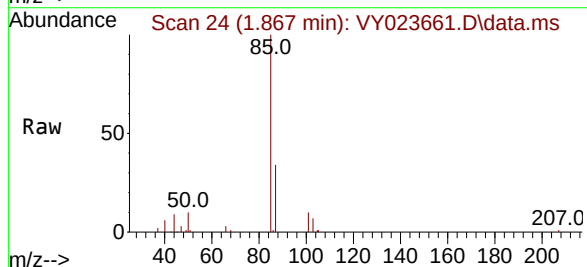
Manual Integrations  
APPROVED

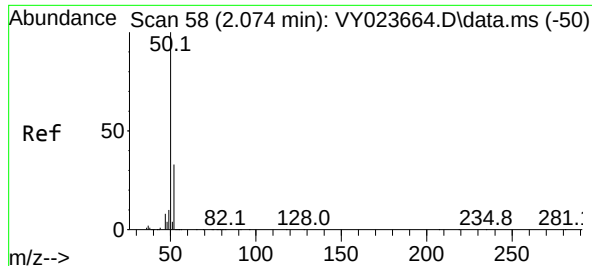
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 5.963 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

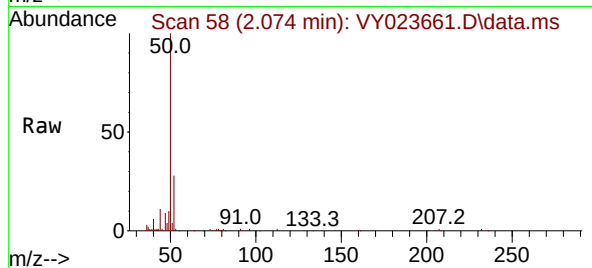
Tgt Ion: 85 Resp: 19990  
Ion Ratio Lower Upper  
85 100  
87 34.2 16.2 48.6





#3  
Chloromethane  
Concen: 5.849 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

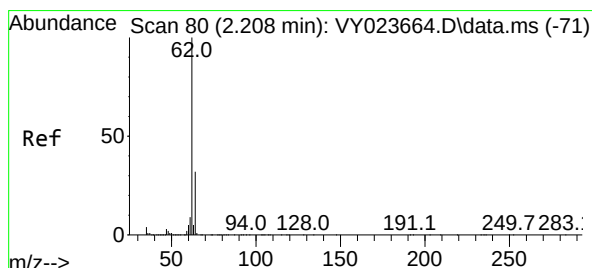
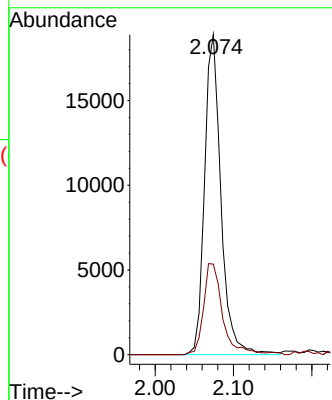
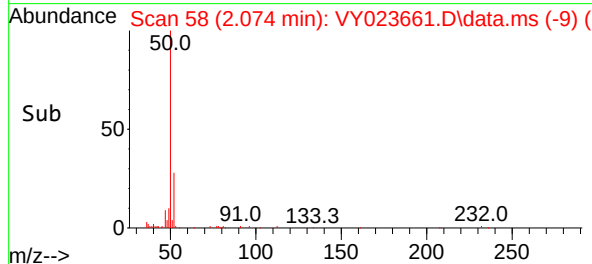
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



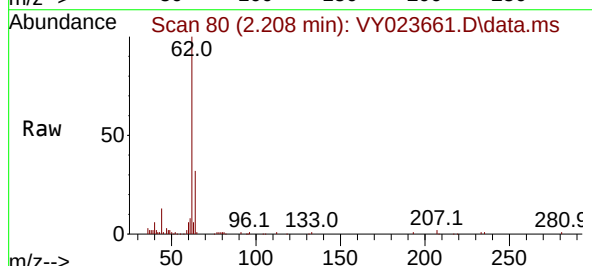
Tgt Ion: 50 Resp: 27439  
Ion Ratio Lower Upper  
50 100  
52 28.3 26.5 39.7

Manual Integrations  
APPROVED

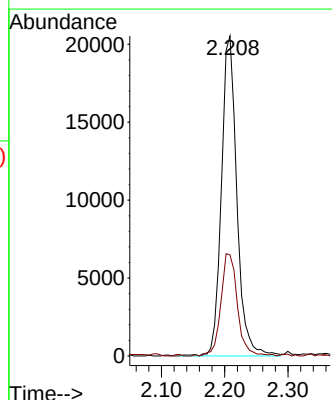
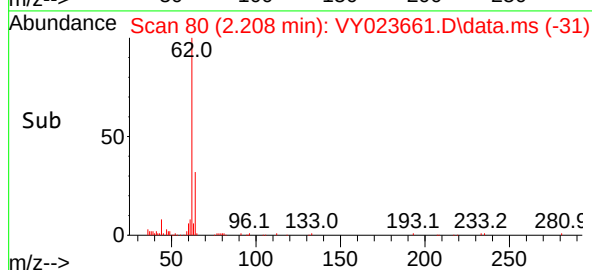
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

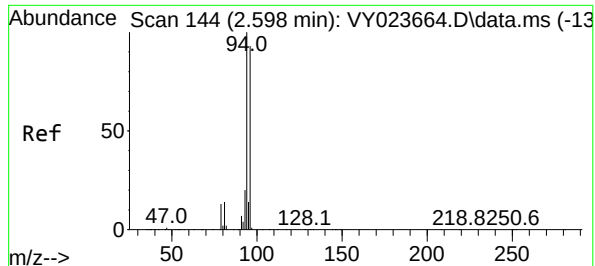


#4  
Vinyl Chloride  
Concen: 5.689 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



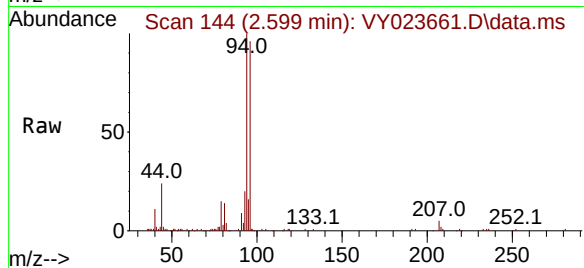
Tgt Ion: 62 Resp: 34731  
Ion Ratio Lower Upper  
62 100  
64 31.3 25.7 38.5





#5  
Bromomethane  
Concen: 5.835 ug/l  
RT: 2.599 min Scan# 144  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

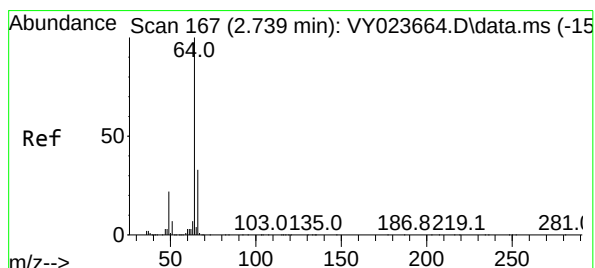
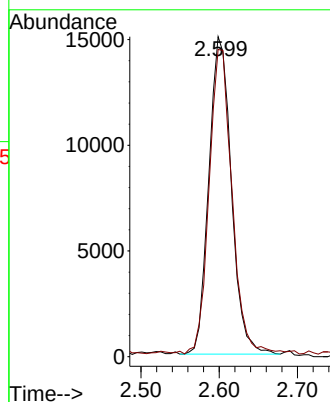
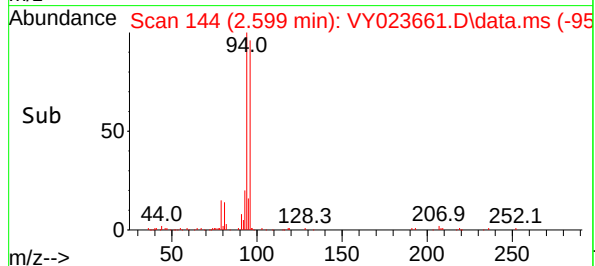
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



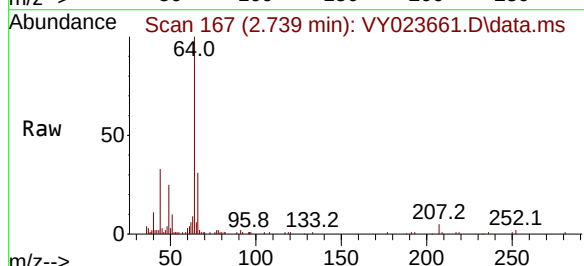
Tgt Ion: 94 Resp: 29962  
Ion Ratio Lower Upper  
94 100  
96 95.0 74.4 111.6

Manual Integrations  
APPROVED

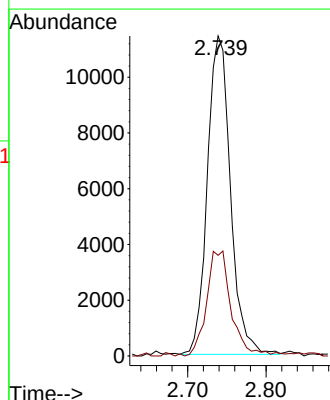
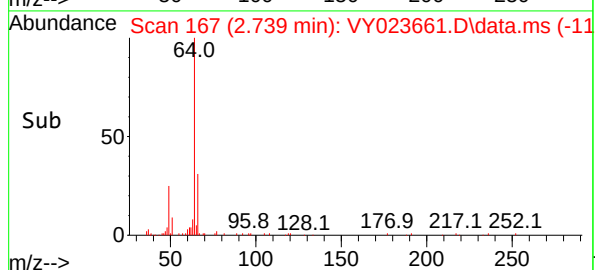
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

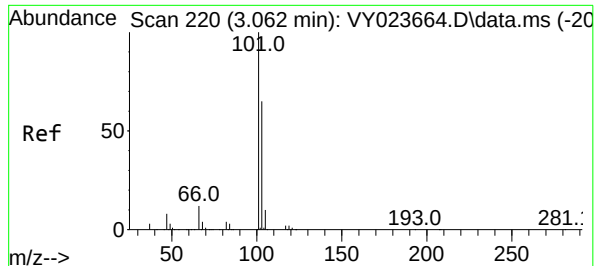


#6  
Chloroethane  
Concen: 5.543 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



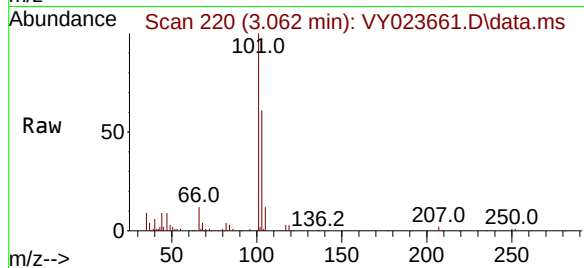
Tgt Ion: 64 Resp: 23388  
Ion Ratio Lower Upper  
64 100  
66 30.9 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 5.568 ug/l  
RT: 3.062 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

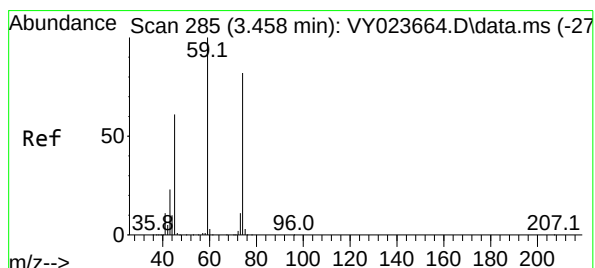
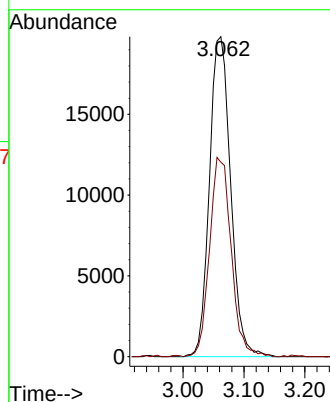
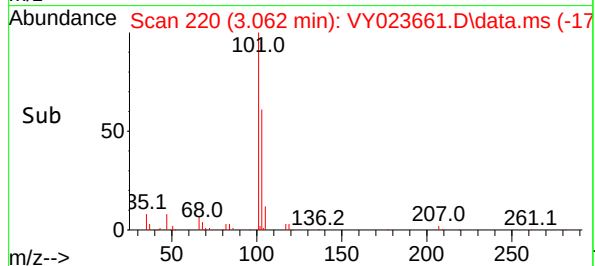
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



Tgt Ion:101 Resp: 4786  
Ion Ratio Lower Upper  
101 100  
103 60.8 52.1 78.1

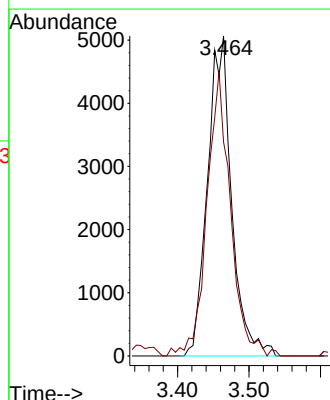
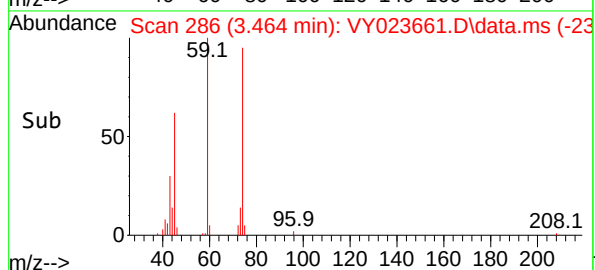
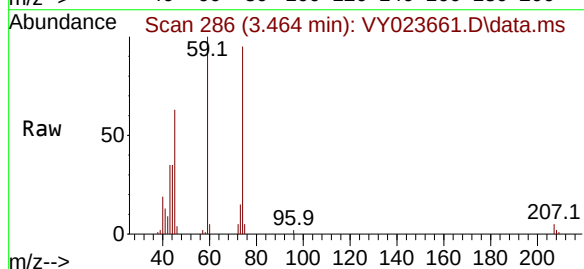
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

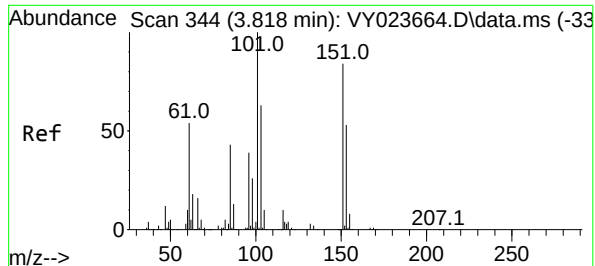


#8  
Diethyl Ether  
Concen: 5.140 ug/l  
RT: 3.464 min Scan# 286  
Delta R.T. 0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion: 74 Resp: 11851  
Ion Ratio Lower Upper  
74 100  
45 86.5 40.6 121.7







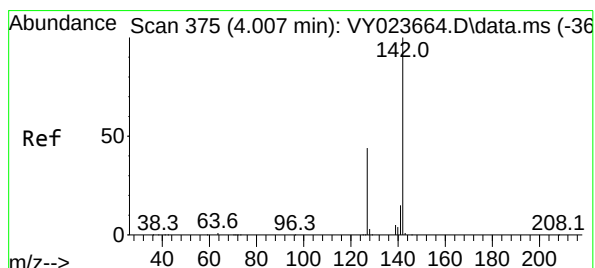
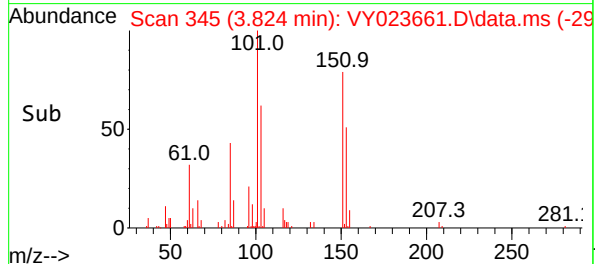
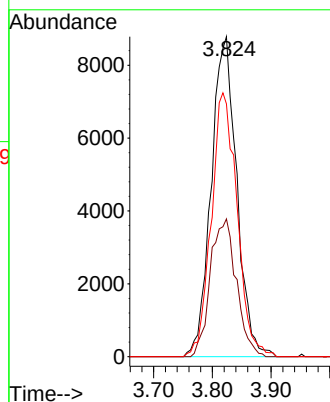
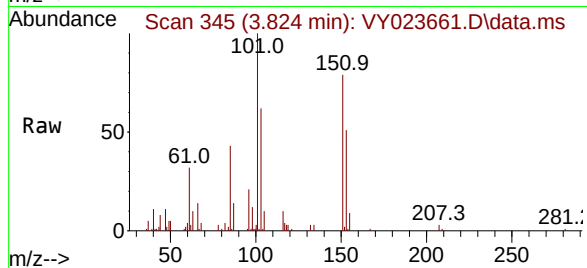
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.601 ug/l  
RT: 3.824 min Scan# 344  
Delta R.T. 0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion:101 Resp: 2653  
Ion Ratio Lower Upper  
101 100  
85 43.8 34.4 51.6  
151 83.4 65.6 98.4

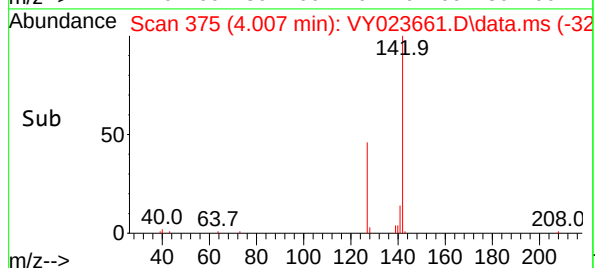
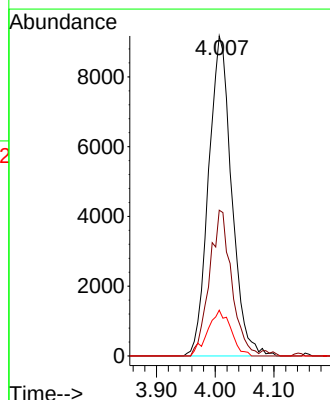
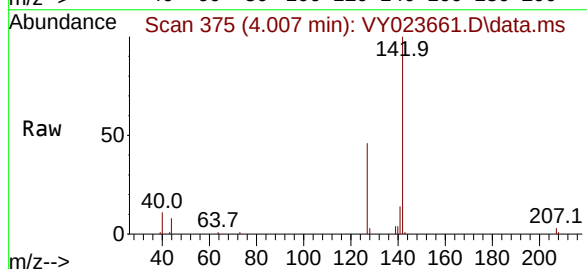
Manual Integrations  
APPROVED

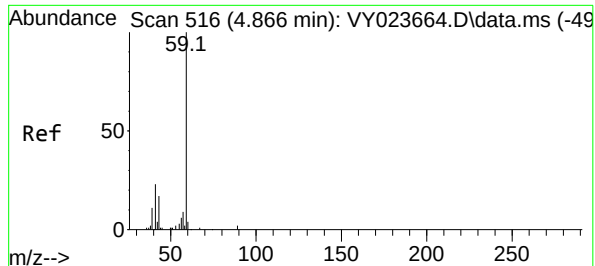
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#10  
Methyl Iodide  
Concen: 4.479 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion:142 Resp: 25054  
Ion Ratio Lower Upper  
142 100  
127 43.7 34.6 51.8  
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 32.136 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 902

Ion Ratio Lower Upper

59 100

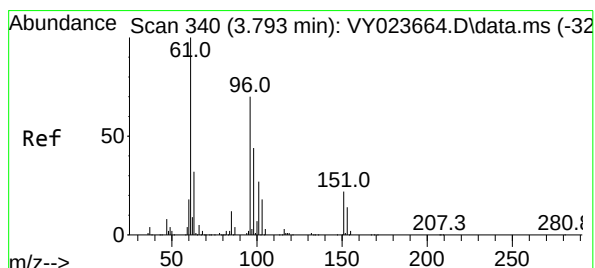
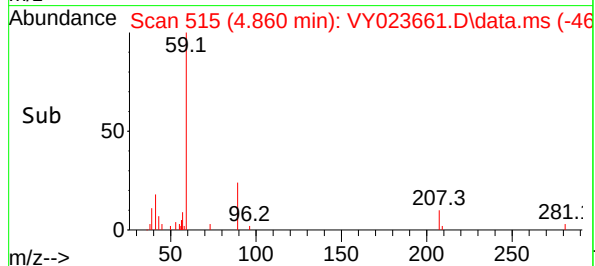
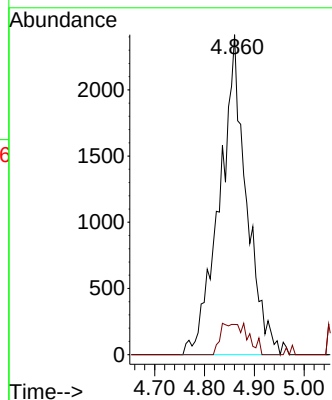
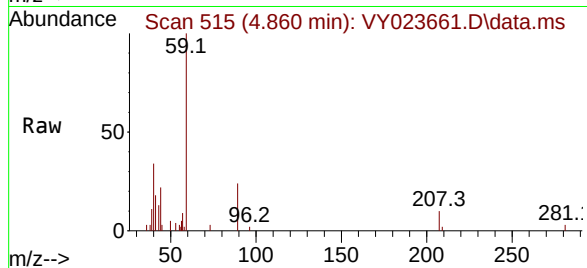
57 0.0 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 5.323 ug/l

RT: 3.800 min Scan# 341

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

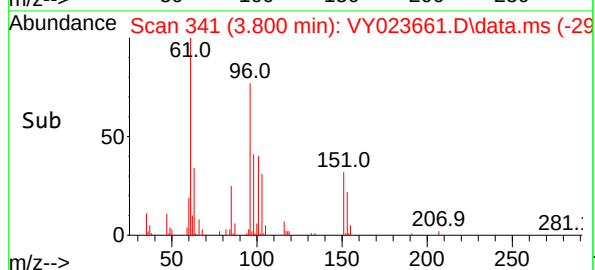
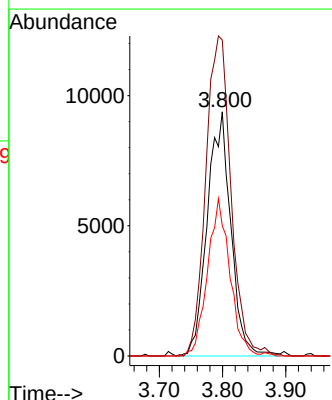
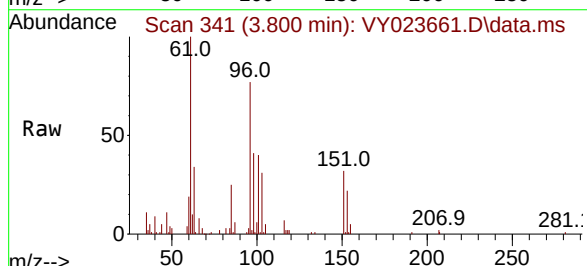
Tgt Ion: 96 Resp: 24289

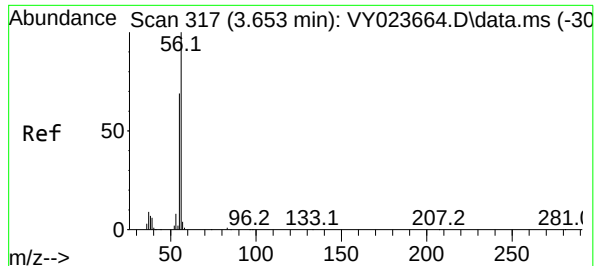
Ion Ratio Lower Upper

96 100

61 128.8 114.0 171.0

98 53.4 50.2 75.2





#13

Acrolein

Concen: 28.913 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 10439

Ion Ratio Lower Upper

56 100

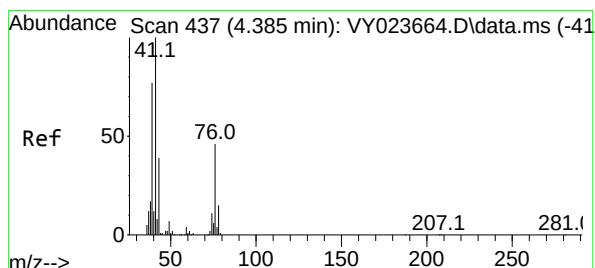
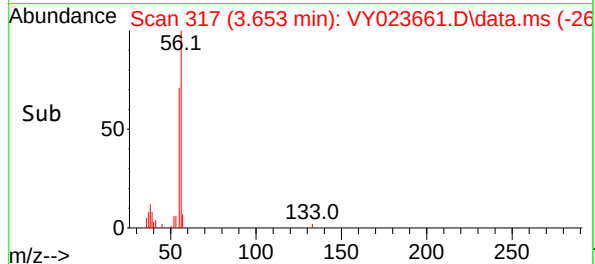
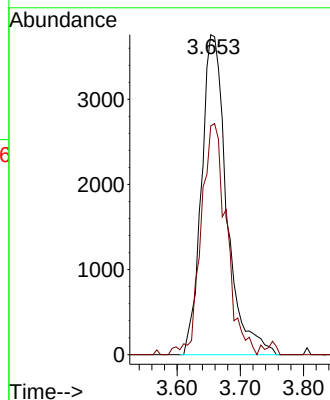
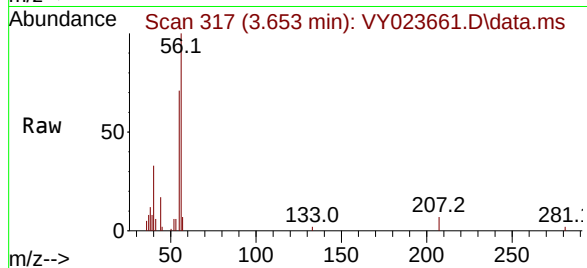
55 72.7 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 4.869 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

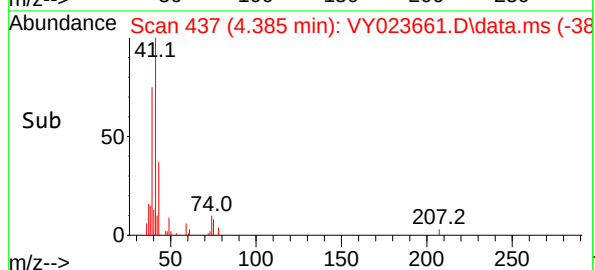
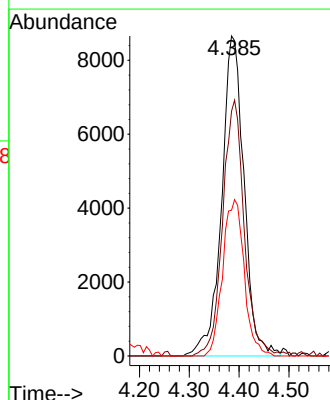
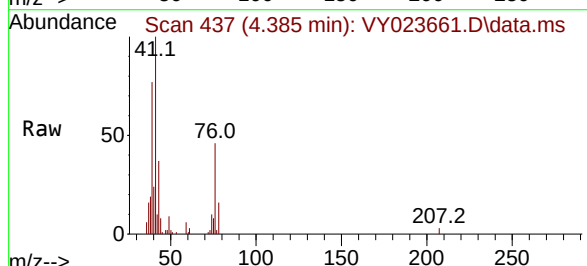
Tgt Ion: 41 Resp: 27044

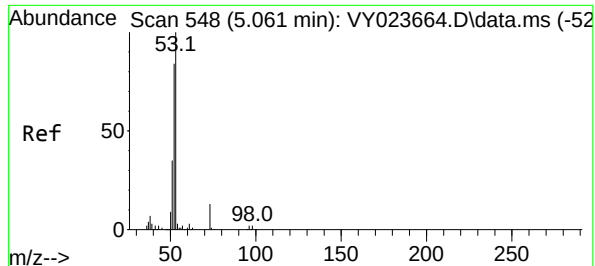
Ion Ratio Lower Upper

41 100

39 76.9 60.4 90.6

76 46.9 38.0 57.0





#15

Acrylonitrile

Concen: 25.078 ug/l

RT: 5.068 min Scan# 548

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

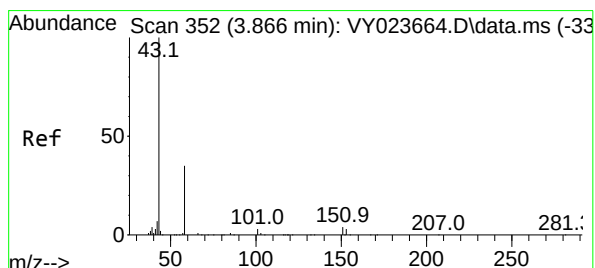
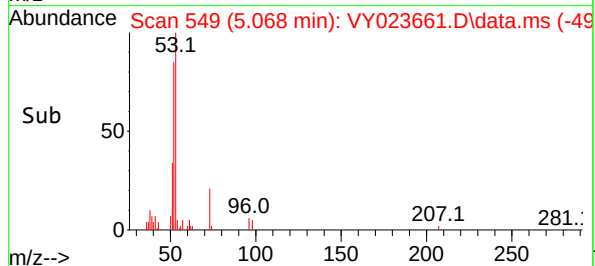
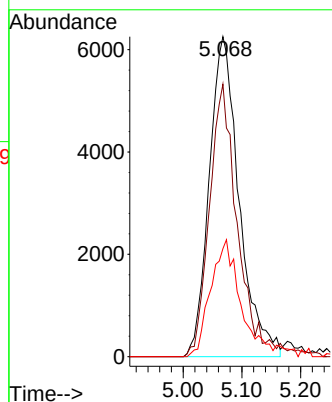
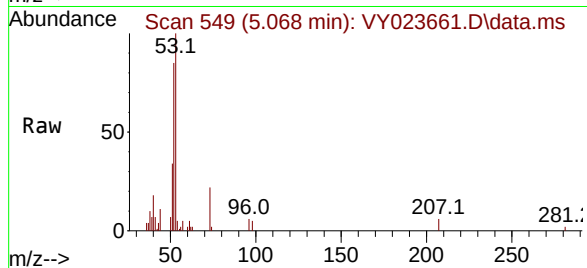
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 22090 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 80.9  | 64.9  | 97.3  |
| 51       | 36.3  | 29.4  | 44.0  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 27.140 ug/l

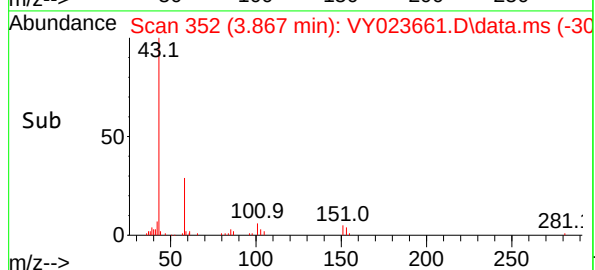
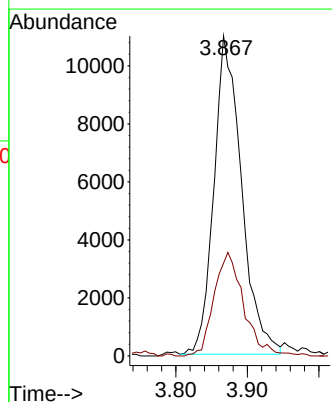
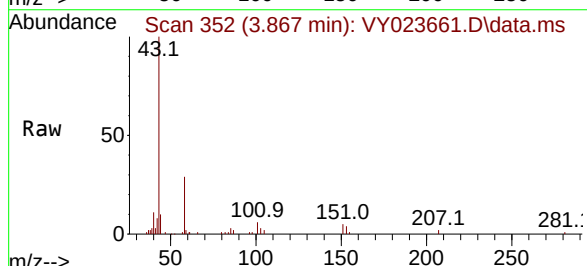
RT: 3.867 min Scan# 352

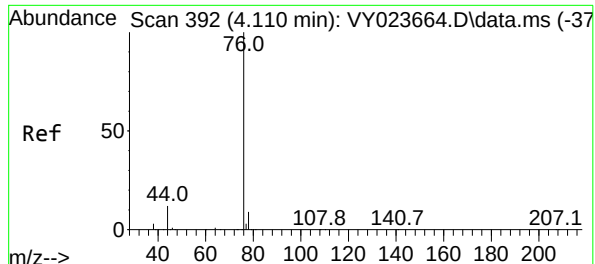
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 29389 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 29.1  | 28.2  | 42.4  |





#17

Carbon Disulfide

Concen: 5.395 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 7555

Ion Ratio Lower Upper

76 100

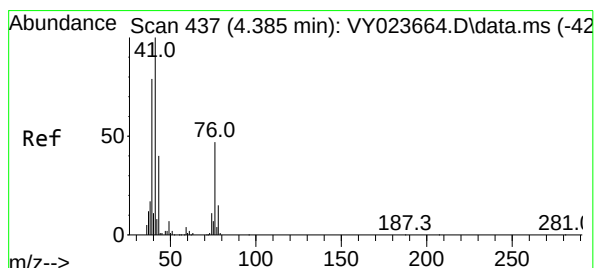
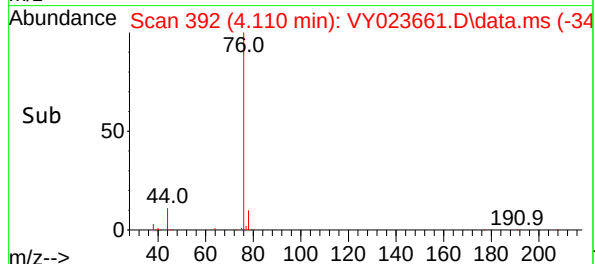
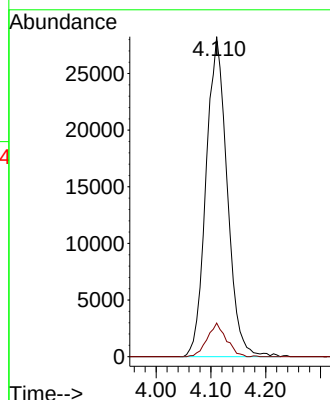
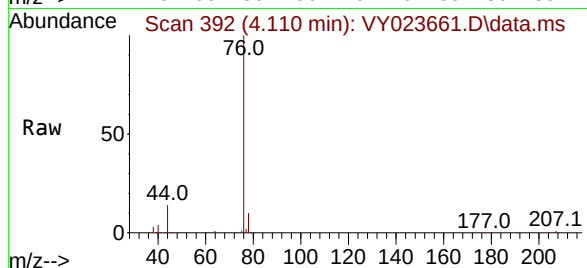
78 10.5 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#18

Methyl Acetate

Concen: 4.725 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.006 min

Lab File: VY023661.D

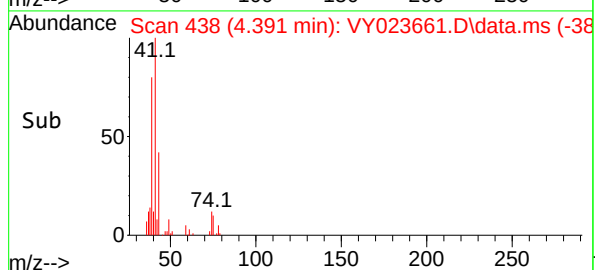
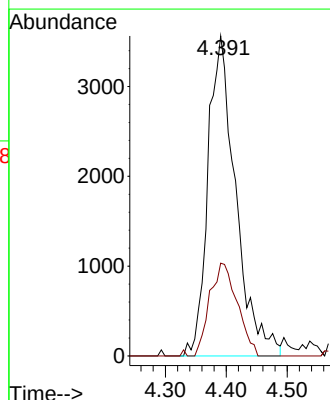
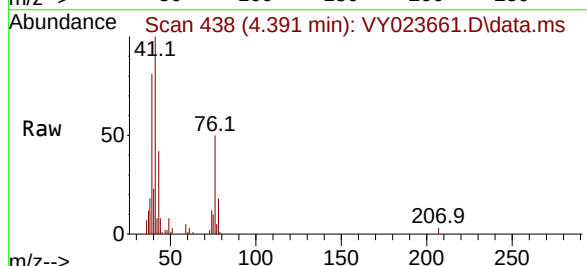
Acq: 04 Nov 2025 09:19

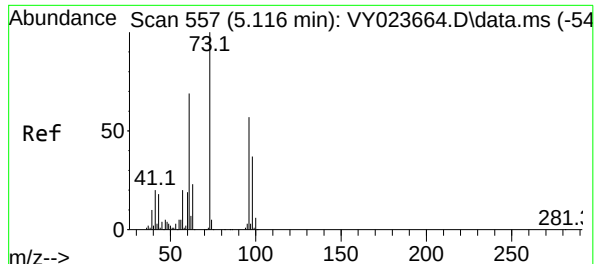
Tgt Ion: 43 Resp: 11286

Ion Ratio Lower Upper

43 100

74 28.7 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 4.728 ug/l

RT: 5.116 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 5002

Ion Ratio Lower Upper

73 100

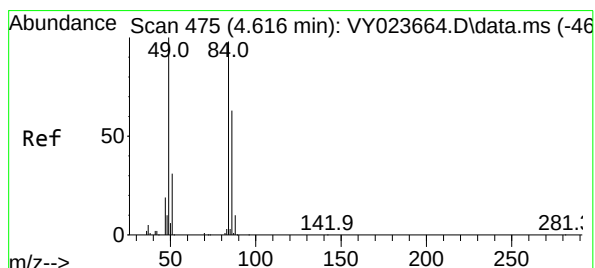
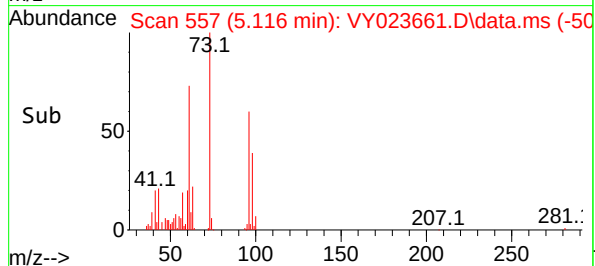
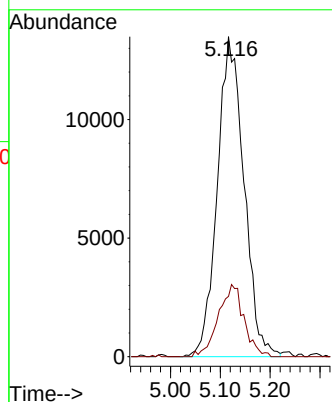
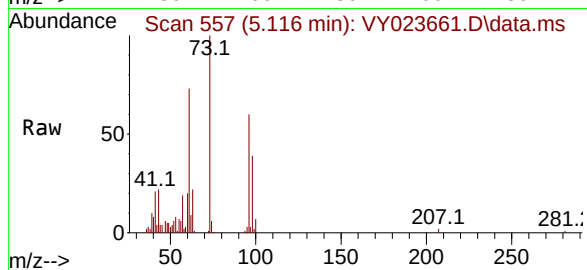
57 18.8 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 6.371 ug/l

RT: 4.623 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Tgt Ion: 84 Resp: 33305

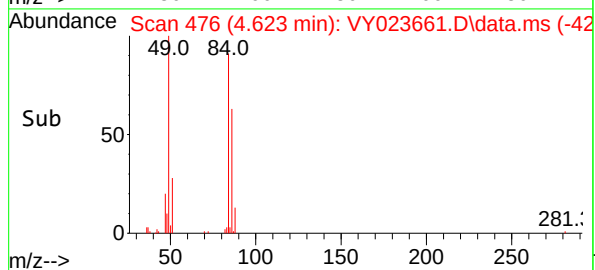
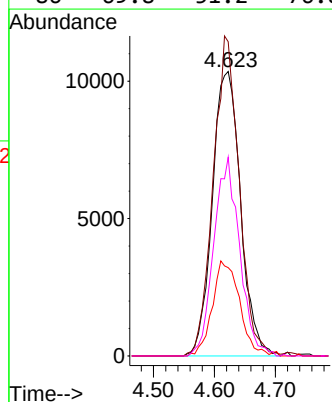
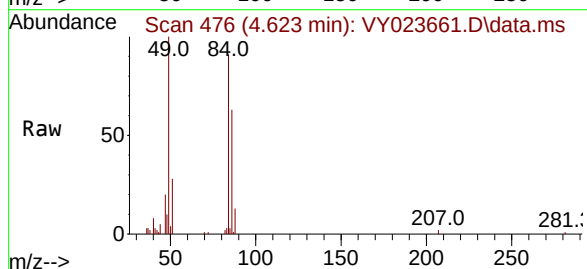
Ion Ratio Lower Upper

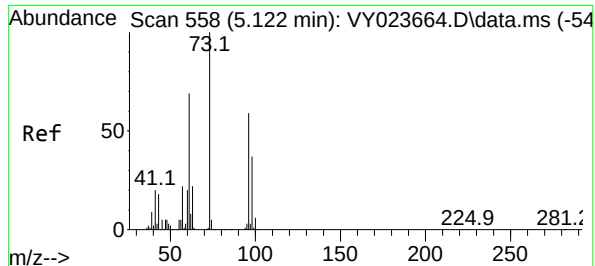
84 100

49 110.4 81.5 122.3

51 31.1 25.5 38.3

86 69.8 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 5.084 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

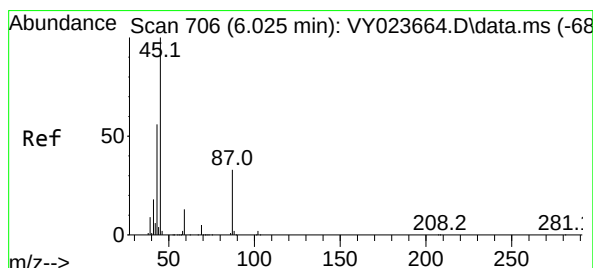
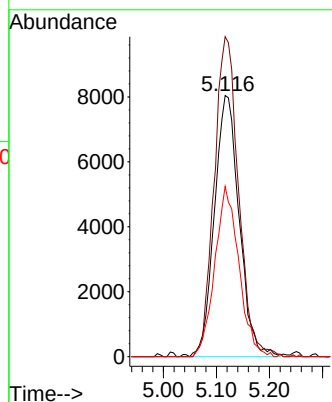
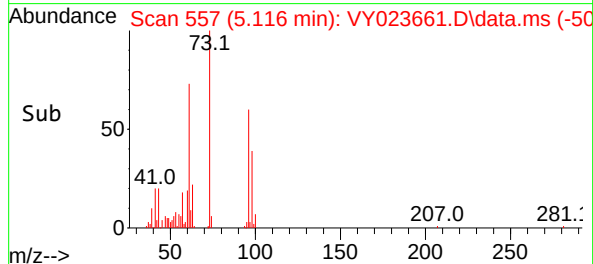
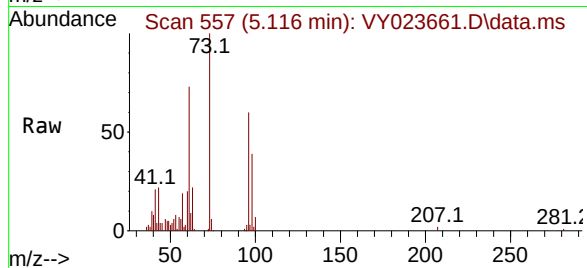
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2615  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 122.6 | 93.3  | 139.9 |
| 98       | 65.2  | 50.6  | 75.8  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 4.527 ug/l

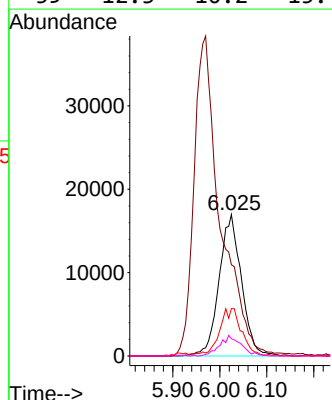
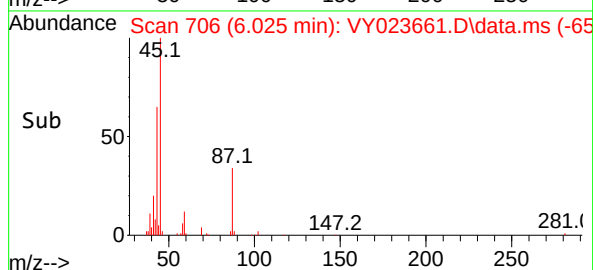
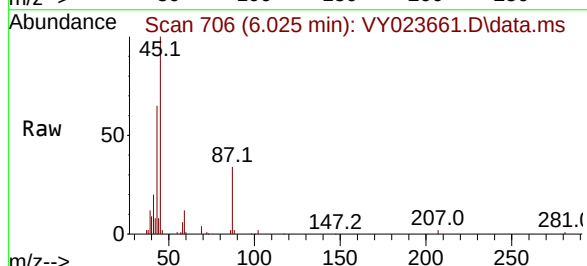
RT: 6.025 min Scan# 706

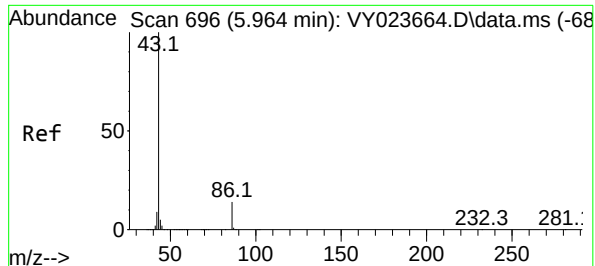
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 56019 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 62.4  | 44.7  | 67.1  |
| 87       | 33.5  | 27.2  | 40.8  |
| 59       | 12.3  | 10.2  | 15.4  |





#23

Vinyl Acetate

Concen: 22.631 ug/l

RT: 5.970 min Scan# 696

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 14945

Ion Ratio Lower Upper

43 100

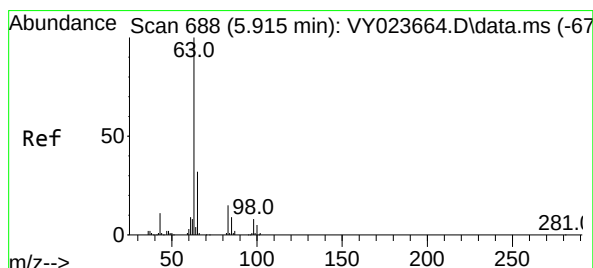
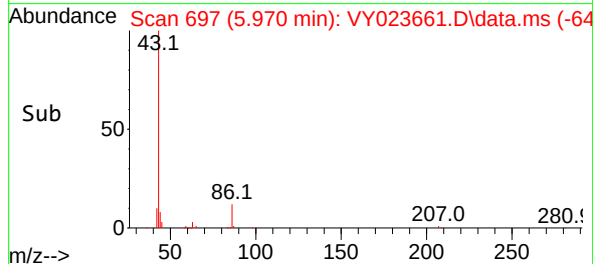
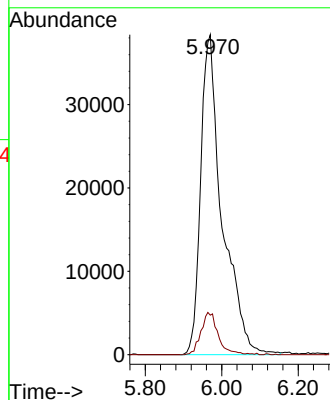
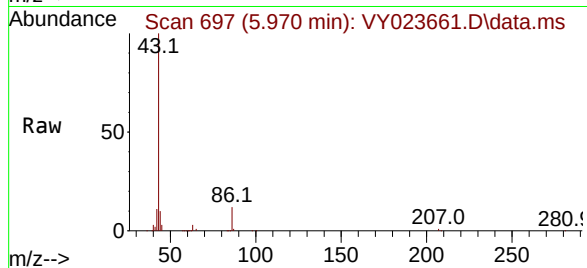
86 12.4 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 5.298 ug/l

RT: 5.915 min Scan# 688

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

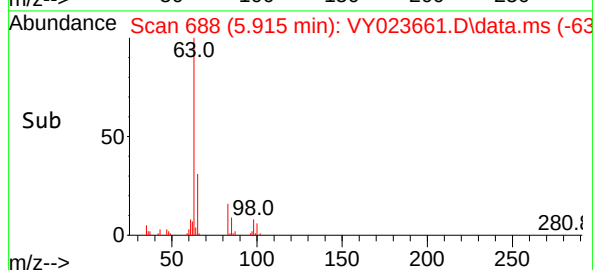
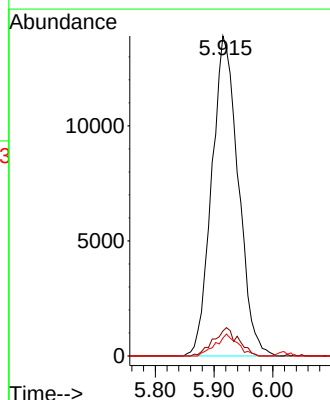
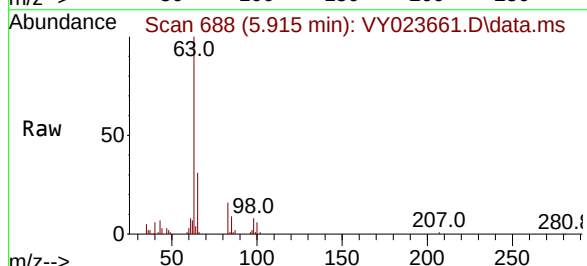
Tgt Ion: 63 Resp: 43679

Ion Ratio Lower Upper

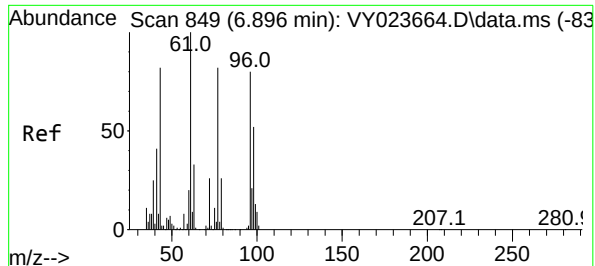
63 100

98 7.8 4.0 11.9

100 5.6 2.6 7.8







#25

2-Butanone

Concen: 26.134 ug/l

RT: 6.897 min Scan# 84

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 32720

Ion Ratio Lower Upper

43 100

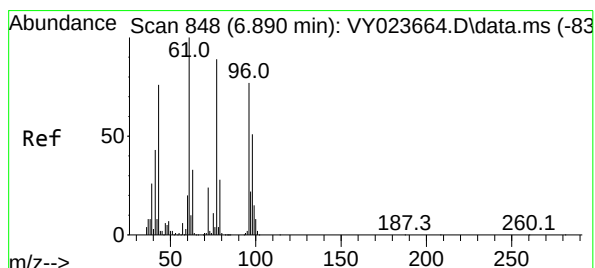
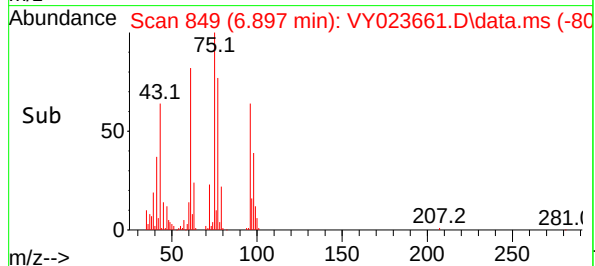
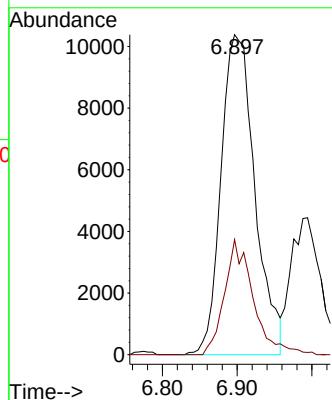
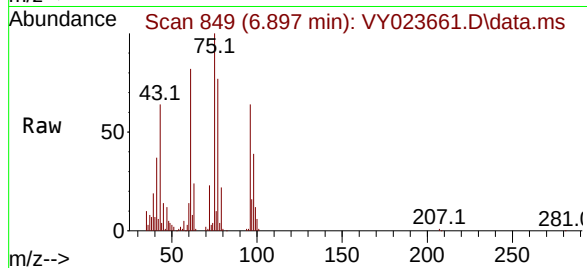
72 35.9 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 5.380 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023661.D

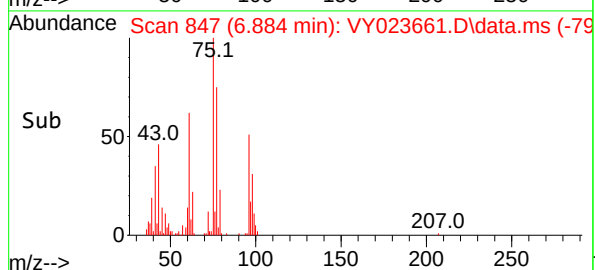
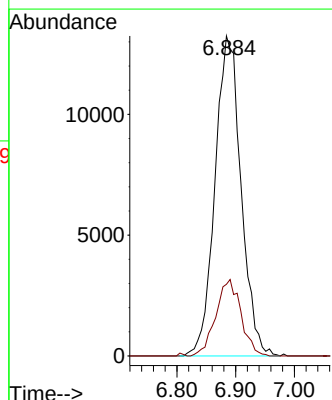
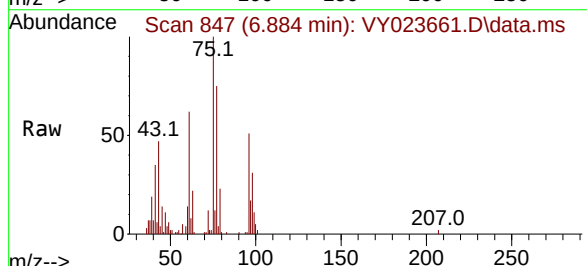
Acq: 04 Nov 2025 09:19

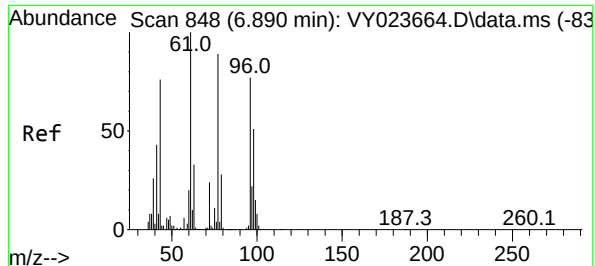
Tgt Ion: 77 Resp: 40803

Ion Ratio Lower Upper

77 100

97 23.1 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 4.966 ug/l

RT: 6.897 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC005

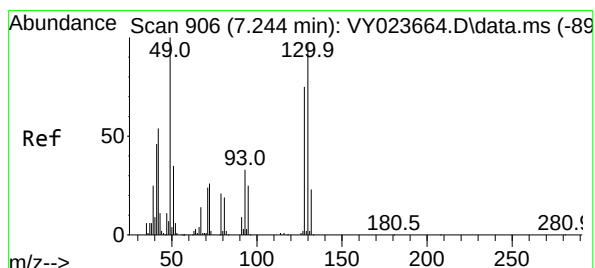
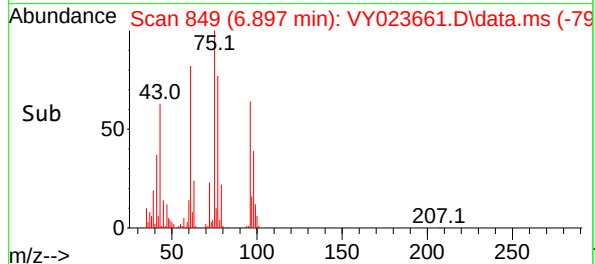
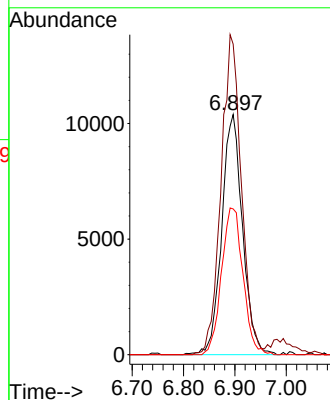
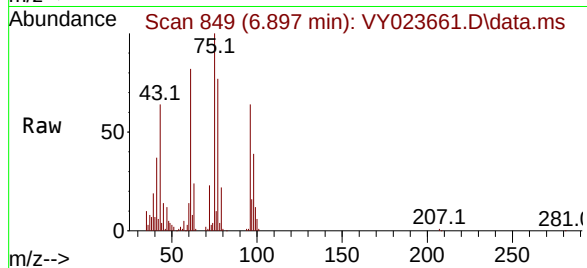
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 29179 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 130.1 | 0.0   | 255.0 |
| 98       | 63.1  | 0.0   | 129.8 |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 5.127 ug/l

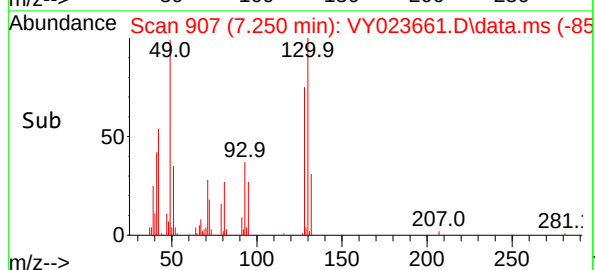
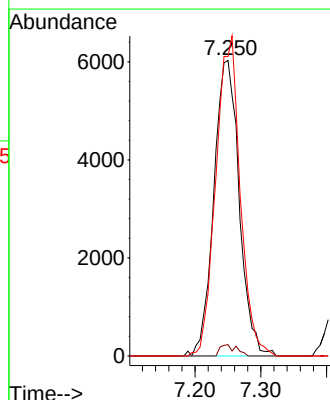
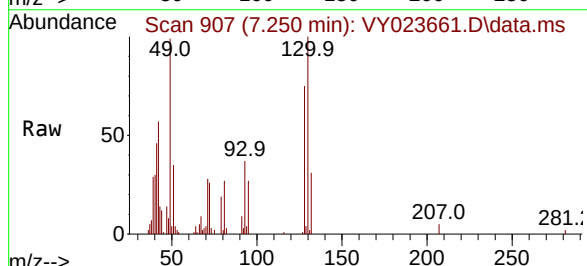
RT: 7.250 min Scan# 907

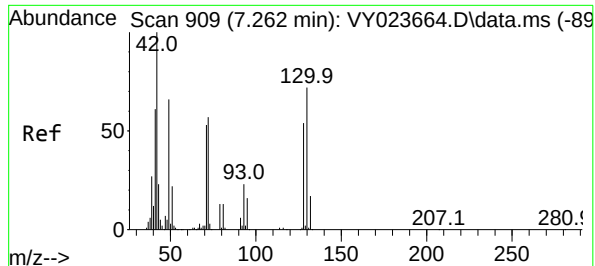
Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 16184 |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 2.5   | 0.0   | 5.0   |
| 130      | 103.8 | 80.1  | 120.1 |





#29

Tetrahydrofuran

Concen: 23.206 ug/l

RT: 7.275 min Scan# 911

Delta R.T. 0.012 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC005

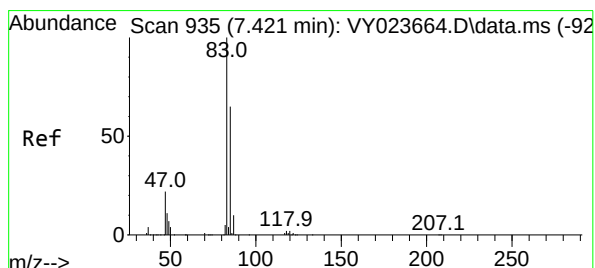
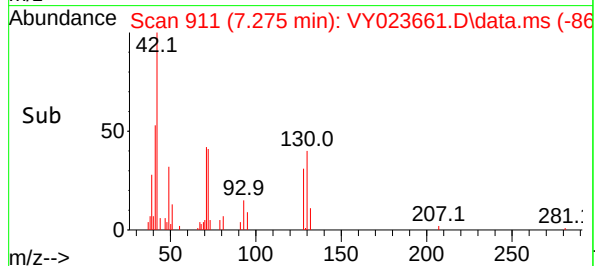
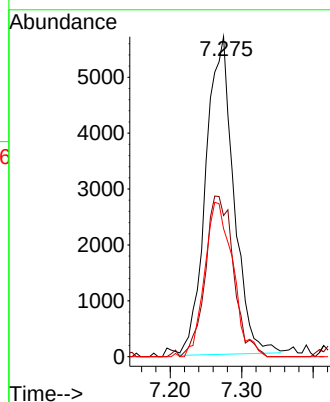
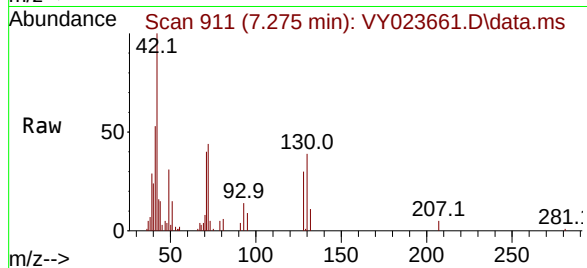
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1547  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 51.1  | 43.4  | 65.2  |
| 71       | 49.1  | 40.7  | 61.1  |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 5.316 ug/l

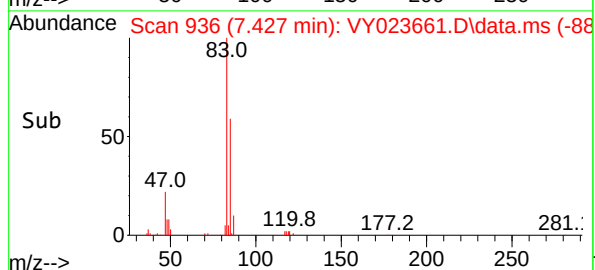
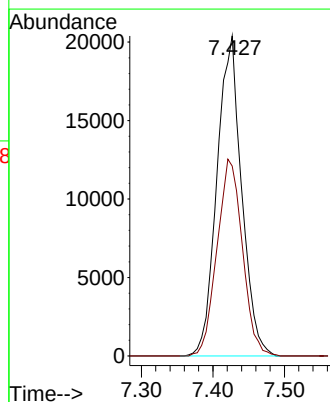
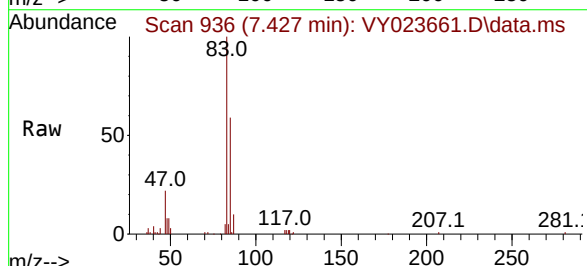
RT: 7.427 min Scan# 936

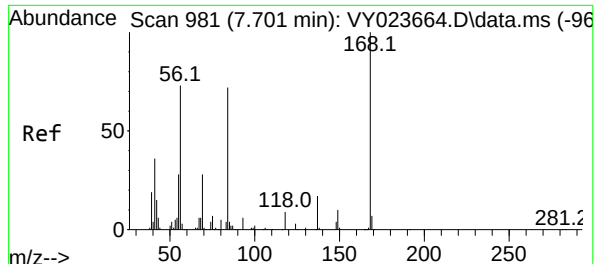
Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 48896 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 59.4  | 52.1  | 78.1  |





#31

Cyclohexane

Concen: 5.612 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 4029

Ion Ratio Lower Upper

56 100

69 69.4 30.5 45.7

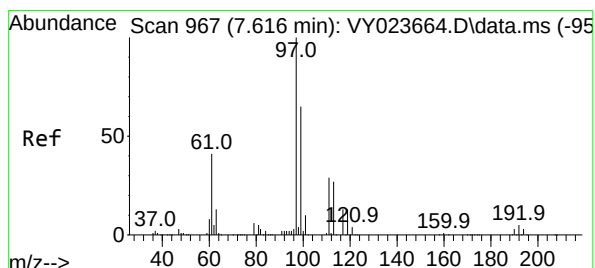
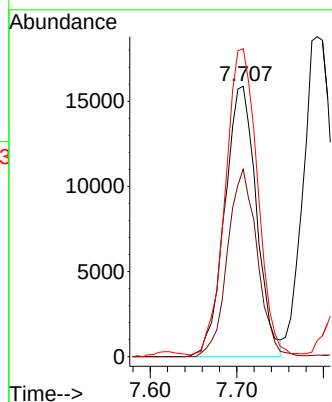
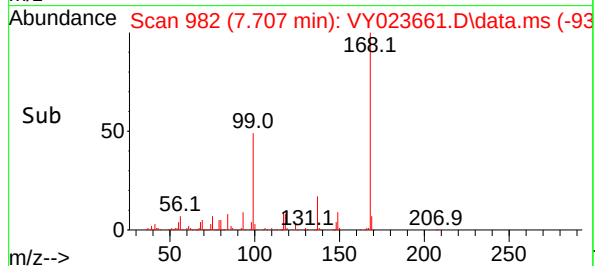
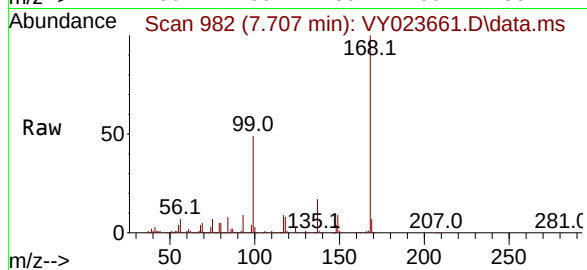
84 112.8 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 5.292 ug/l

RT: 7.616 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

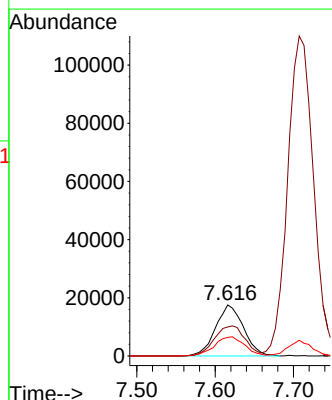
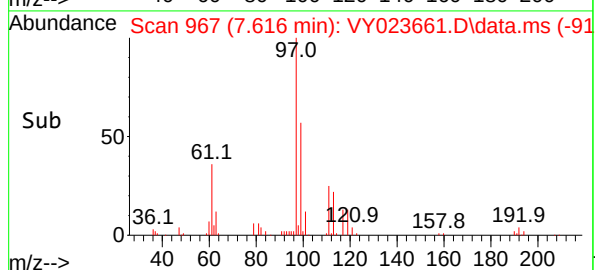
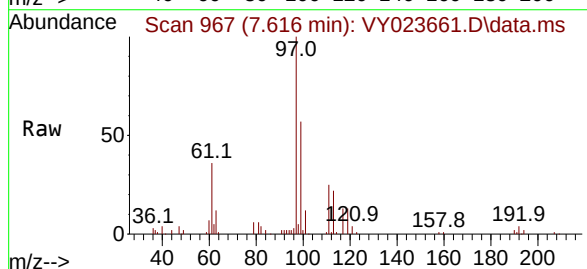
Tgt Ion: 97 Resp: 43512

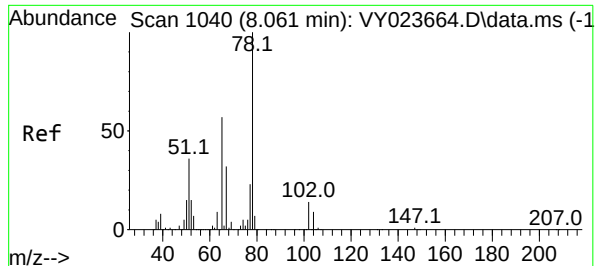
Ion Ratio Lower Upper

97 100

99 64.6 51.5 77.3

61 40.5 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 5.491 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 2392

Ion Ratio Lower Upper

65 100

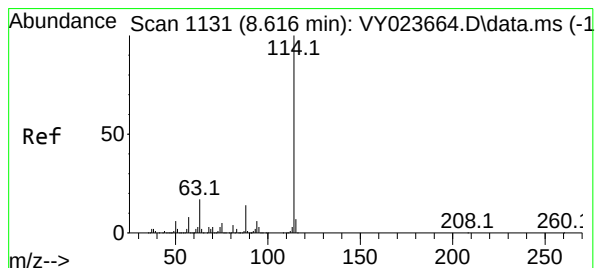
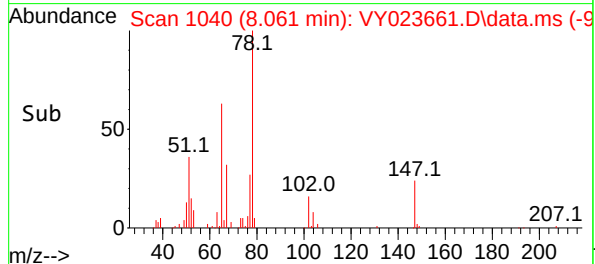
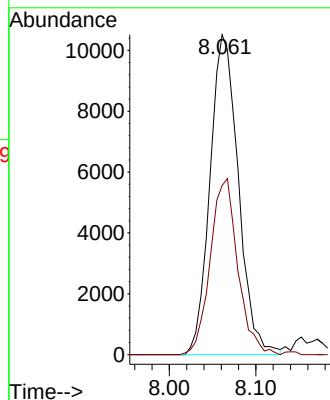
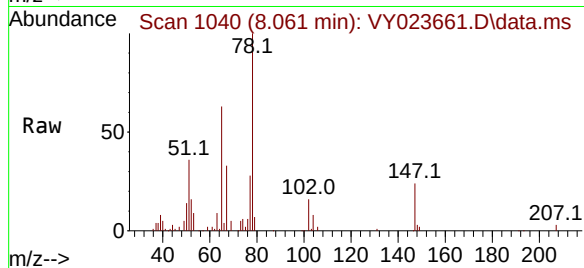
67 53.4 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

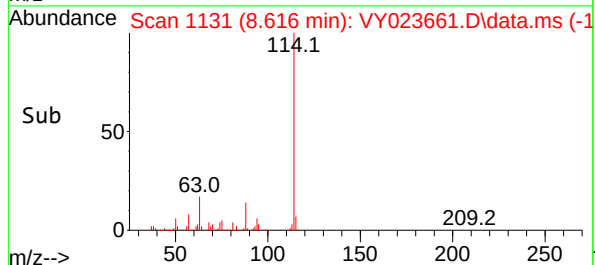
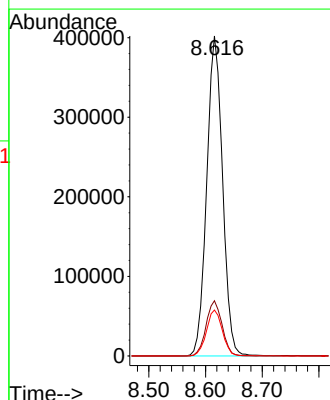
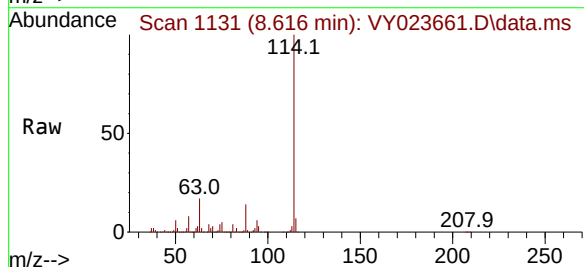
Tgt Ion:114 Resp: 780075

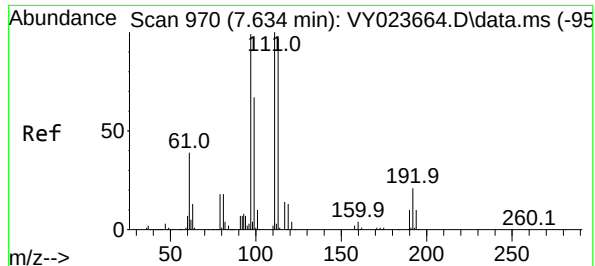
Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

88 14.4 0.0 29.0





#35

Dibromofluoromethane

Concen: 4.987 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion:113 Resp: 2431

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

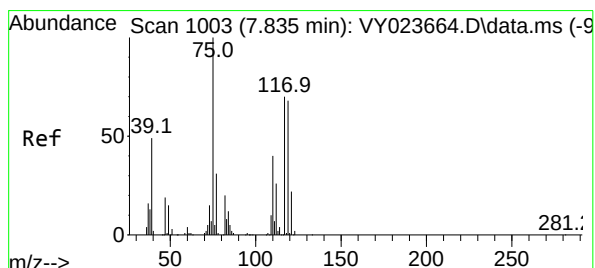
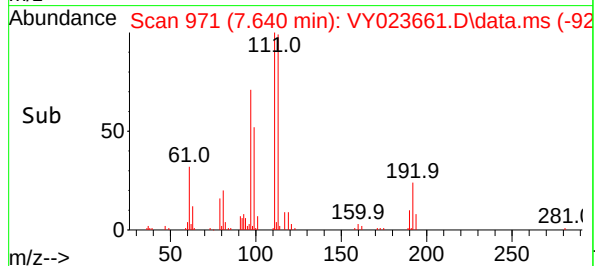
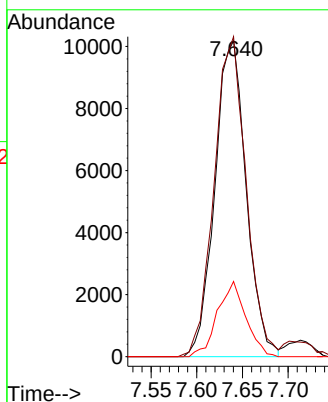
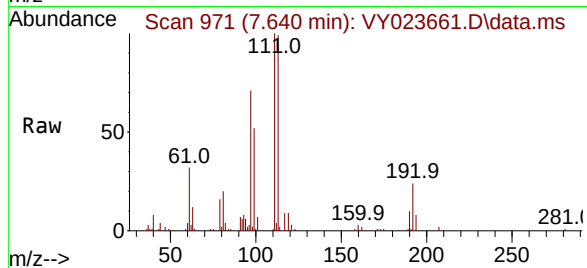
192 21.6 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 5.099 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

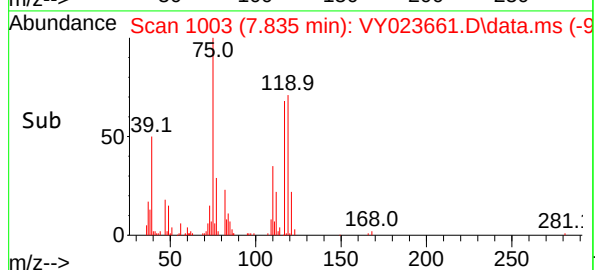
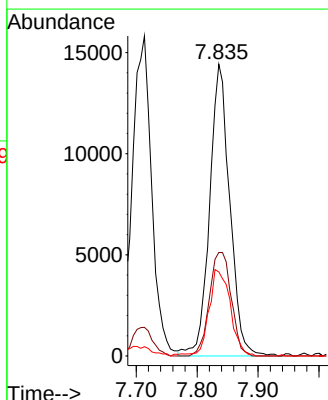
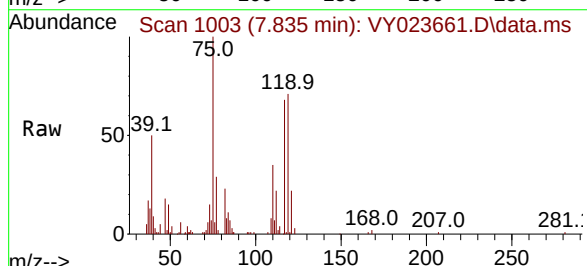
Tgt Ion: 75 Resp: 33214

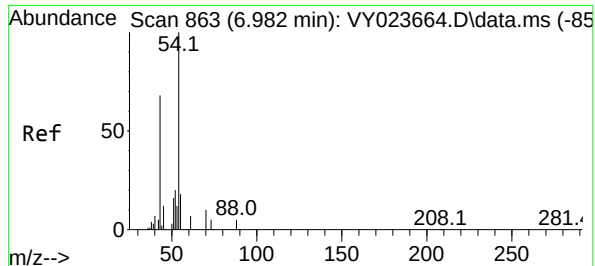
Ion Ratio Lower Upper

75 100

110 38.3 19.7 59.0

77 31.4 25.2 37.8





#37

Ethyl Acetate

Concen: 4.902 ug/l

RT: 6.994 min Scan# 80

Delta R.T. 0.012 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 1236

Ion Ratio Lower Upper

43 100

61 13.3 12.4 18.6

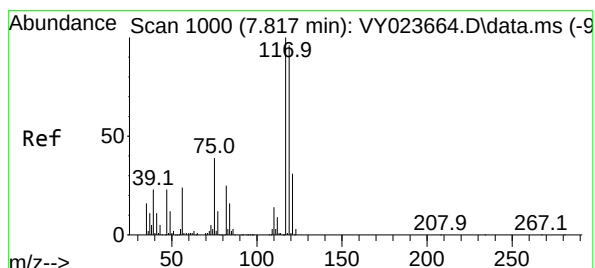
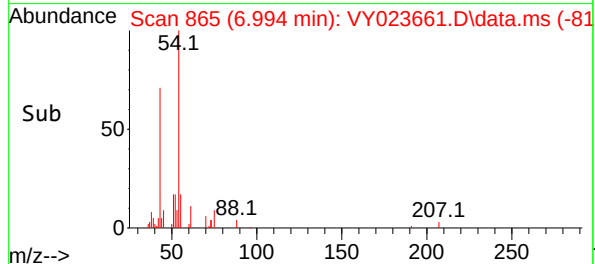
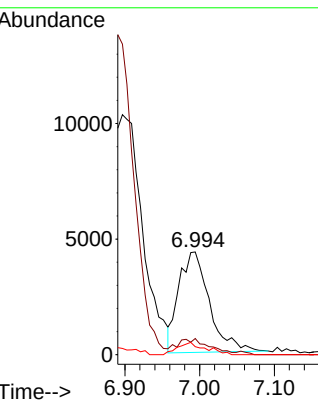
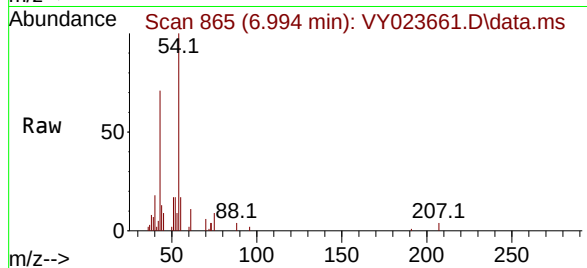
70 11.0 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 5.246 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

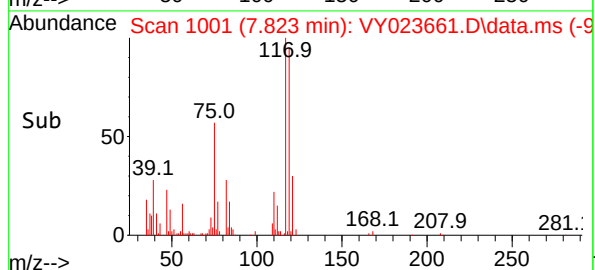
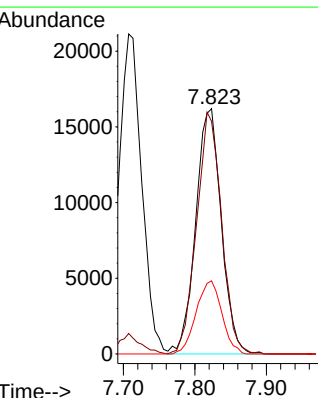
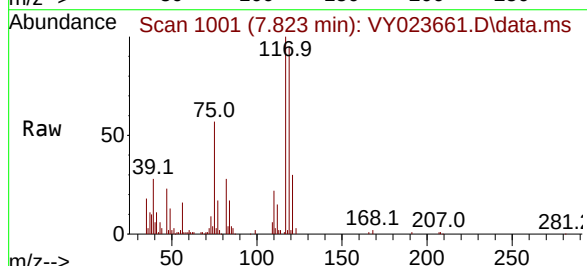
Tgt Ion:117 Resp: 40263

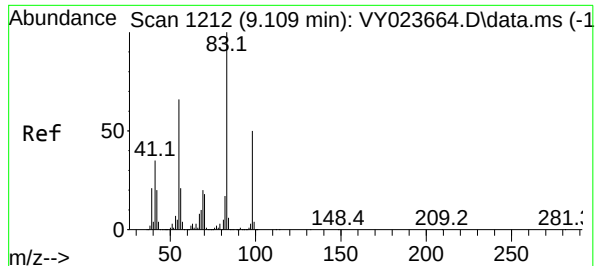
Ion Ratio Lower Upper

117 100

119 94.8 76.3 114.5

121 29.8 24.8 37.2





#39

Methylcyclohexane

Concen: 4.680 ug/l

RT: 9.110 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

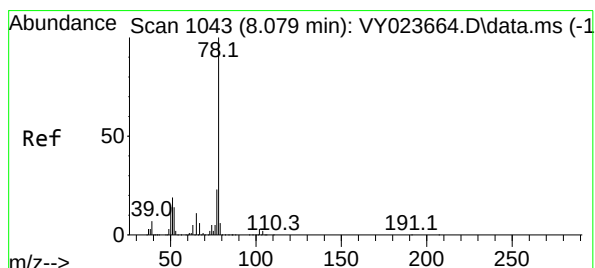
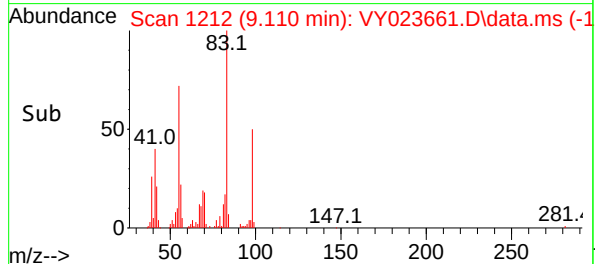
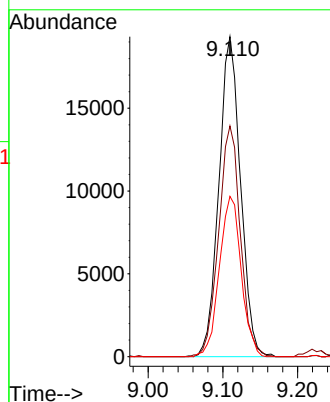
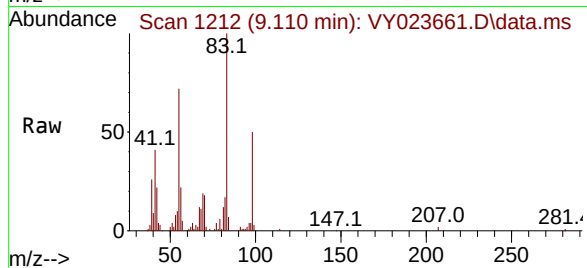
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 38950 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 72.1  | 52.6  | 78.8  |
| 98       | 50.1  | 39.7  | 59.5  |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 5.026 ug/l

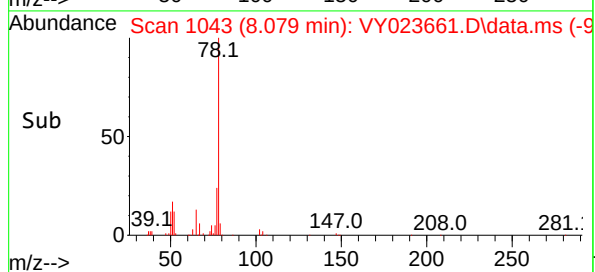
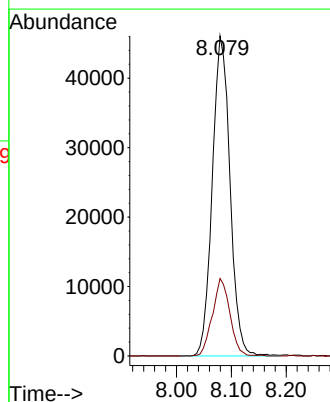
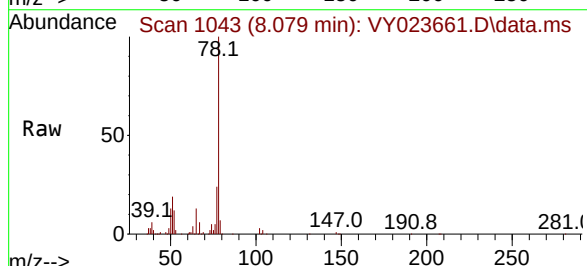
RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

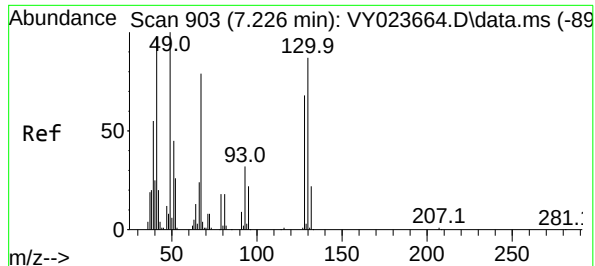
Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 103199 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 24.2  | 18.8  | 28.2   |

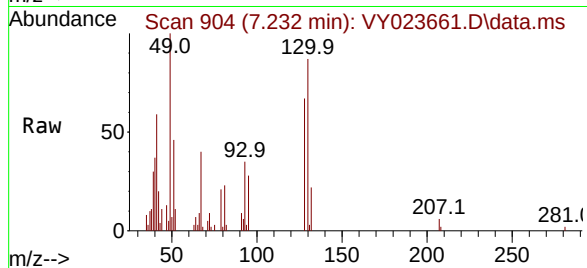






#41  
Methacrylonitrile  
Concen: 4.800 ug/l  
RT: 7.232 min Scan# 903  
Delta R.T. 0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

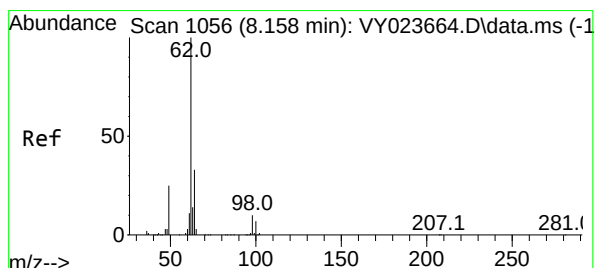
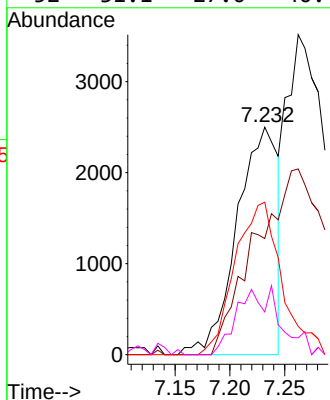
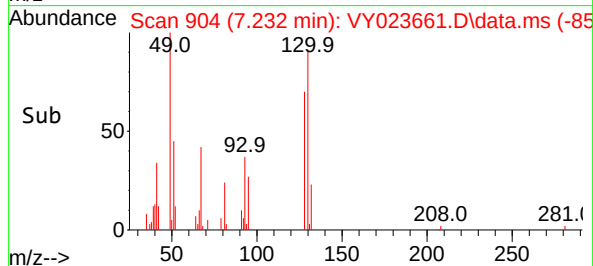
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



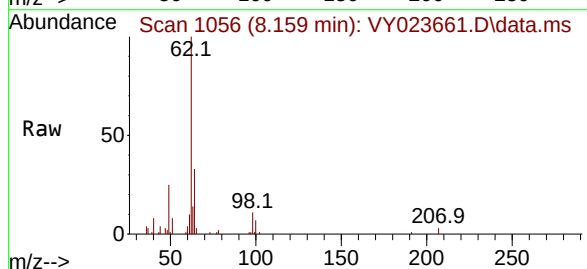
Tgt Ion: 41 Resp: 645  
Ion Ratio Lower Upper  
41 100  
39 0.0 38.6 57.8  
67 77.3 71.3 106.9  
52 31.1 27.0 40.4

Manual Integrations  
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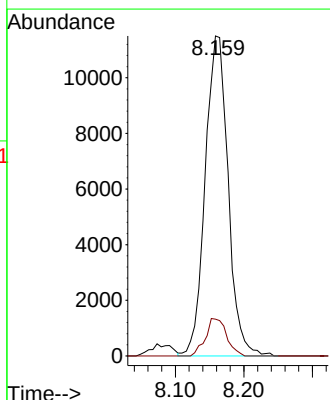
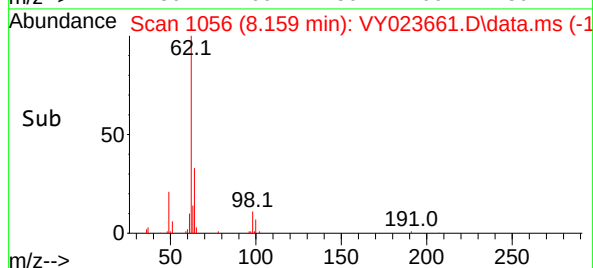
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

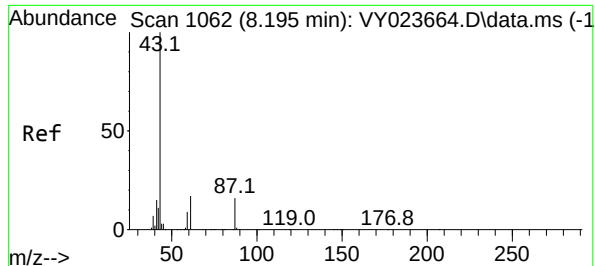


#42  
1,2-Dichloroethane  
Concen: 5.151 ug/l  
RT: 8.159 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



Tgt Ion: 62 Resp: 26761  
Ion Ratio Lower Upper  
62 100  
98 10.7 0.0 21.0





#43

Isopropyl Acetate

Concen: 4.604 ug/l

RT: 8.195 min Scan# 1062

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

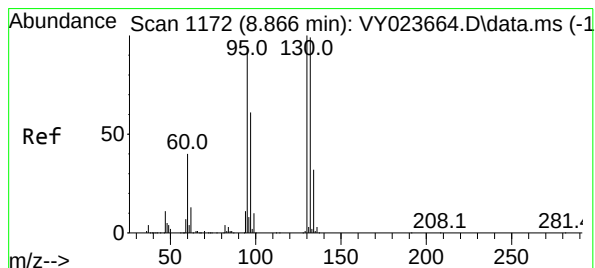
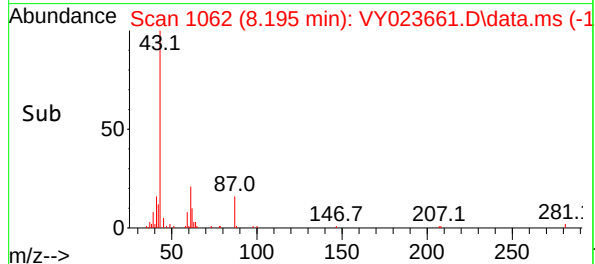
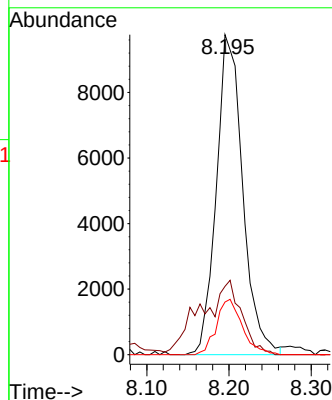
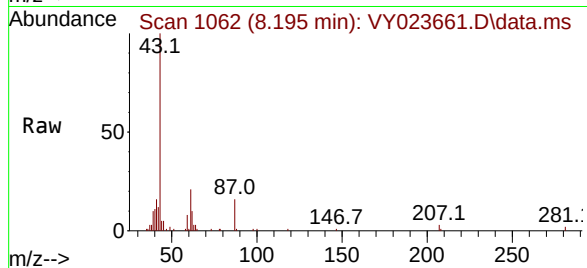
| Tgt Ion: | 43    | Resp: | 21814 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.3  | 18.2  | 27.2  |
| 87       | 17.0  | 13.3  | 19.9  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 5.258 ug/l

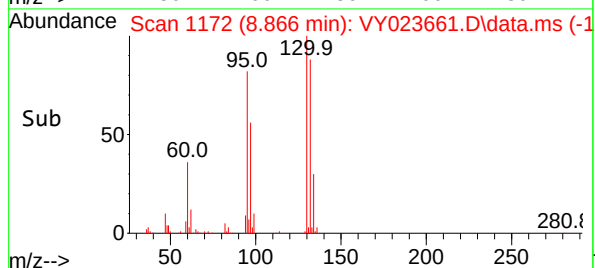
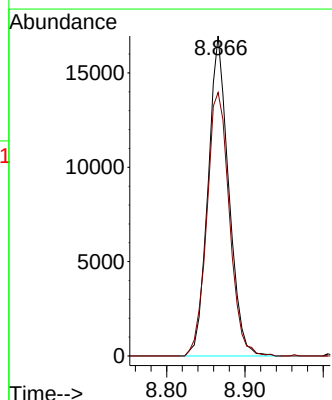
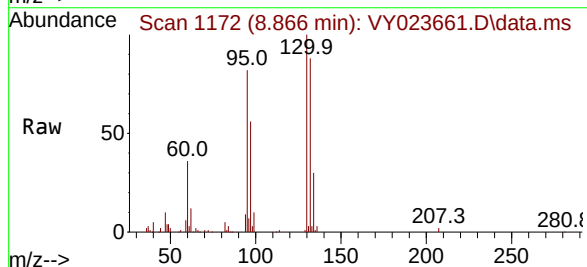
RT: 8.866 min Scan# 1172

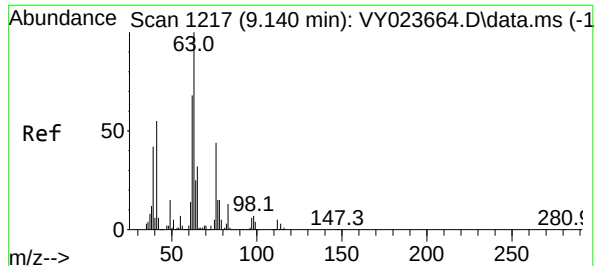
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

| Tgt Ion: | 130   | Resp: | 31010 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 82.4  | 0.0   | 187.0 |





#45

1,2-Dichloropropane

Concen: 5.067 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 2296

Ion Ratio Lower Upper

63 100

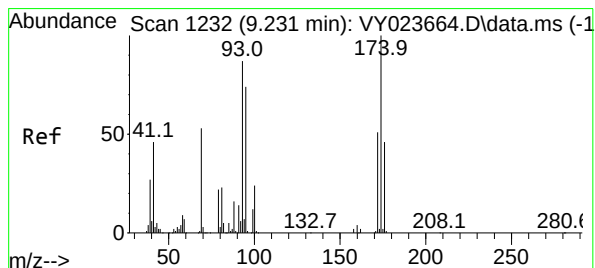
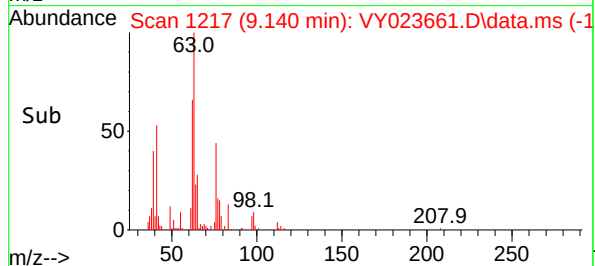
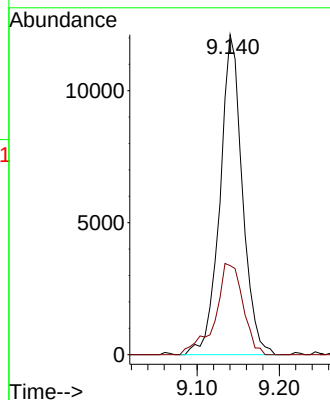
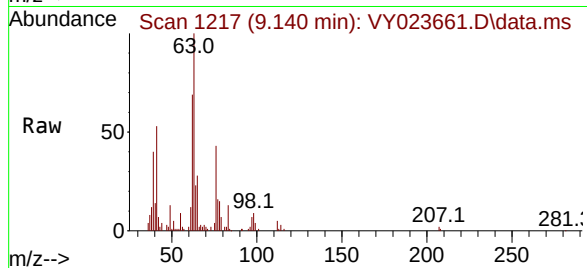
65 27.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 5.082 ug/l

RT: 9.238 min Scan# 1233

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

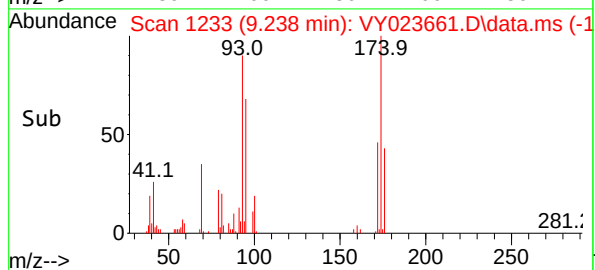
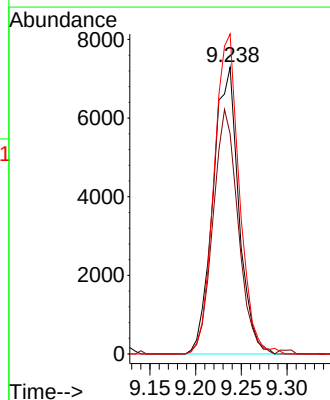
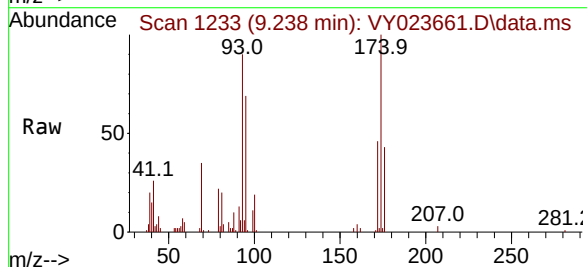
Tgt Ion: 93 Resp: 14269

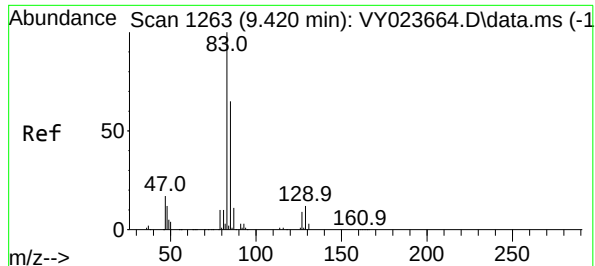
Ion Ratio Lower Upper

93 100

95 83.3 67.4 101.2

174 109.8 89.4 134.0





#47

Bromodichloromethane

Concen: 5.020 ug/l

RT: 9.427 min Scan# 1264

Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC005

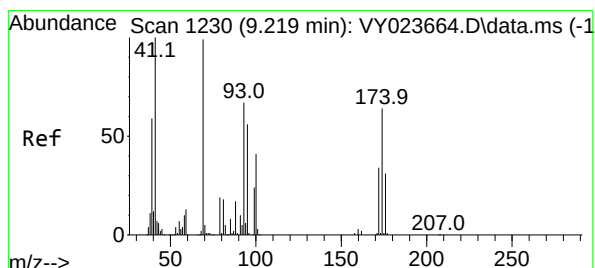
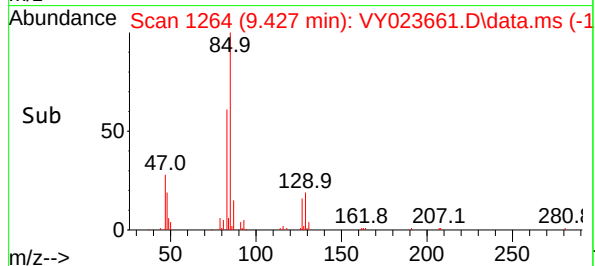
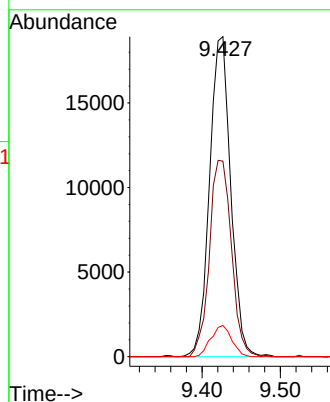
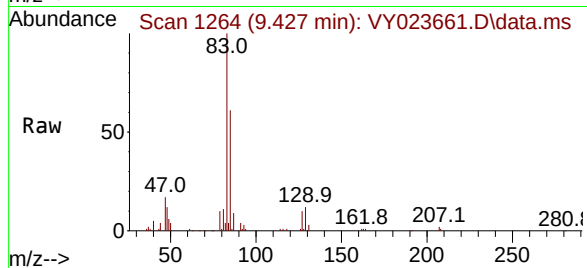
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 35539 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 61.1  | 52.1  | 78.1  |
| 127      | 9.8   | 7.5   | 11.3  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 4.138 ug/l

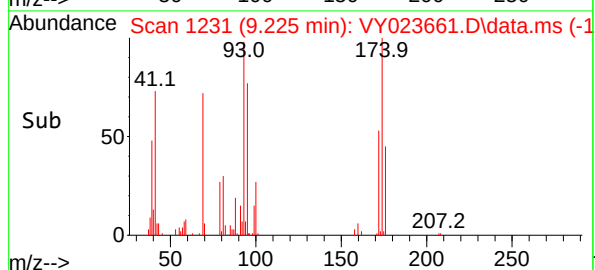
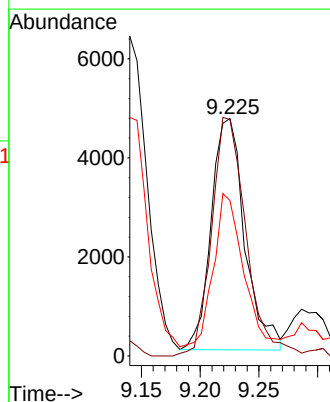
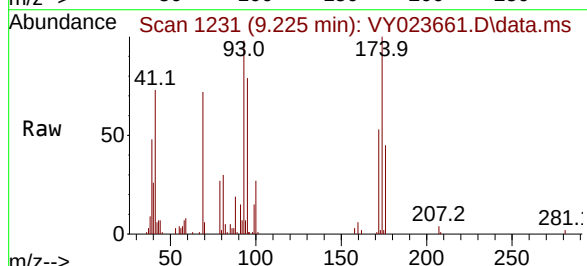
RT: 9.225 min Scan# 1231

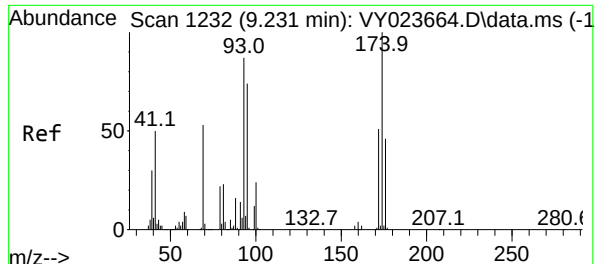
Delta R.T. 0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 9263  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 105.9 | 80.2  | 120.2 |
| 39       | 63.4  | 47.4  | 71.0  |





#49

1,4-Dioxane

Concen: 97.232 ug/l

RT: 9.225 min Scan# 1232

Delta R.T. -0.006 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

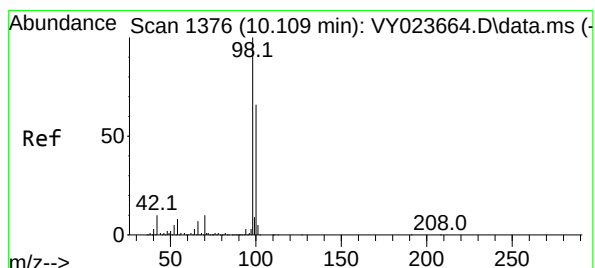
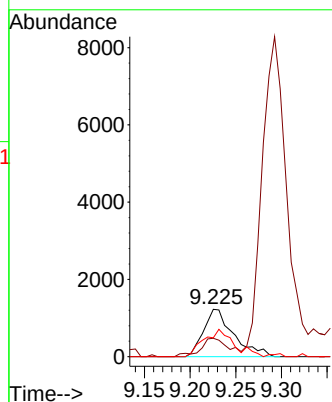
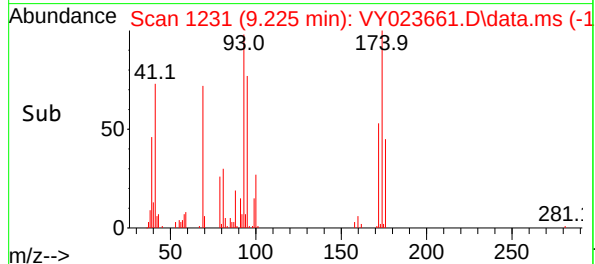
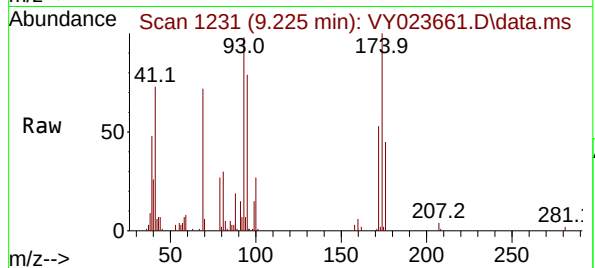
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 2794  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 36.3  | 22.0  | 33.0  |
| 58       | 51.3  | 47.8  | 71.8  |

## Manual Integrations

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Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 4.766 ug/l

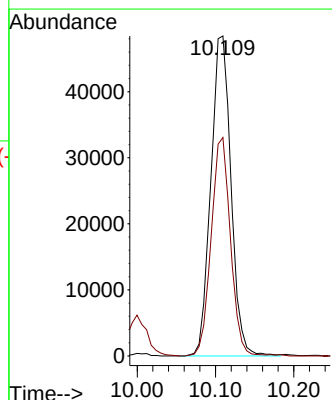
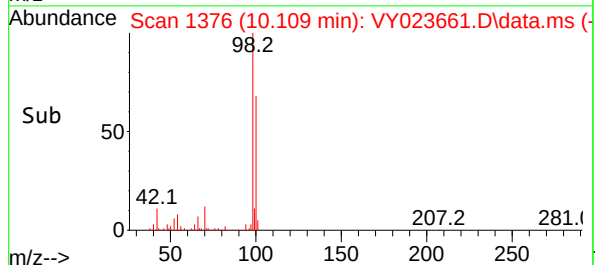
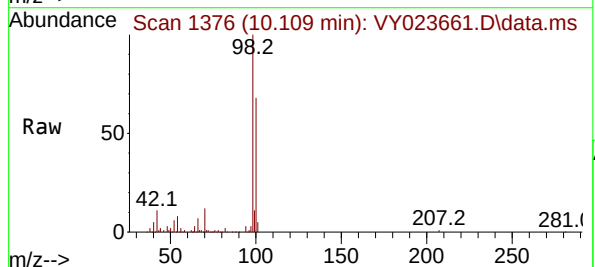
RT: 10.109 min Scan# 1376

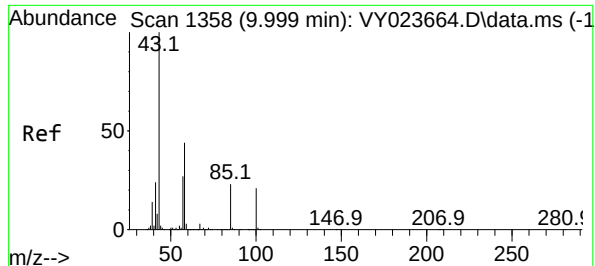
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 86542 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 65.4  | 52.7  | 79.1  |





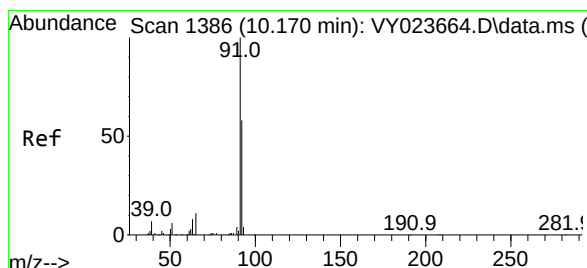
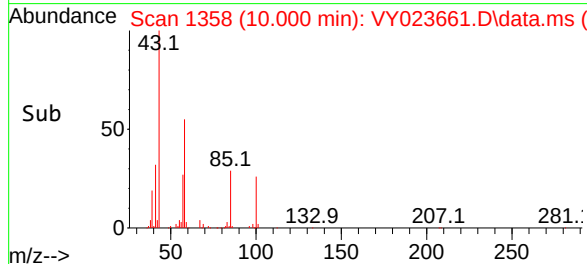
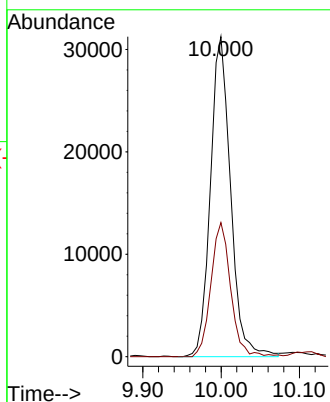
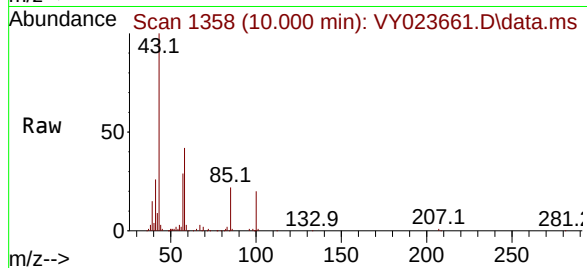
#51  
4-Methyl-2-Pentanone  
Concen: 22.192 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion: 43 Resp: 55920  
Ion Ratio Lower Upper  
43 100  
58 41.1 34.8 52.2

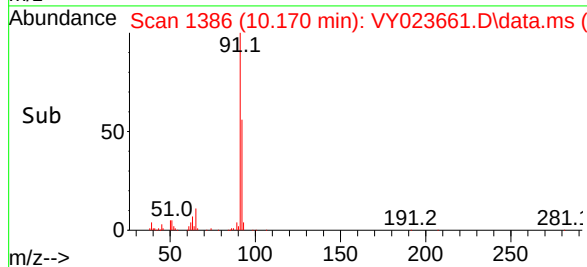
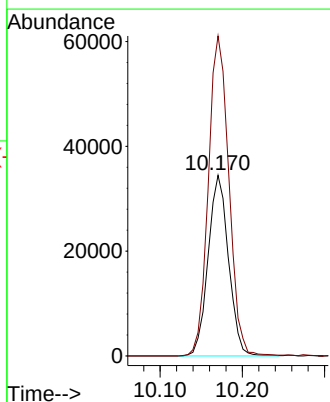
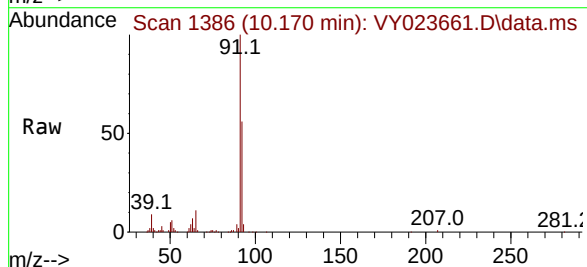
Manual Integrations  
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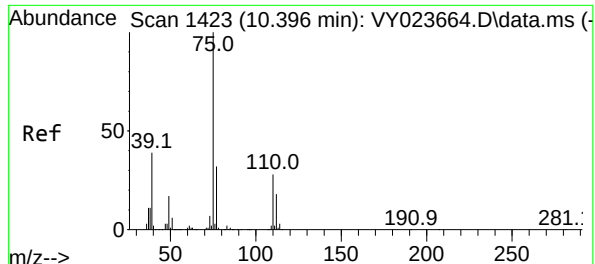
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 4.530 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion: 92 Resp: 59389  
Ion Ratio Lower Upper  
92 100  
91 179.0 137.8 206.8





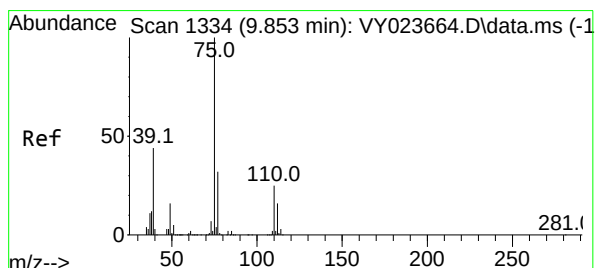
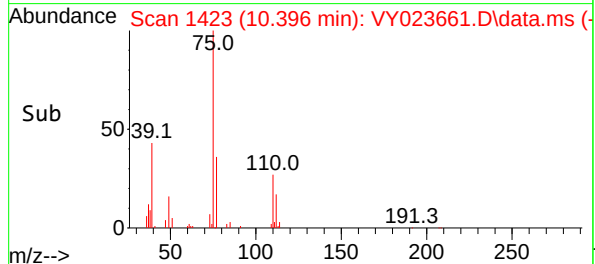
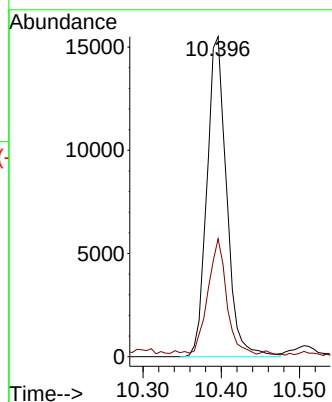
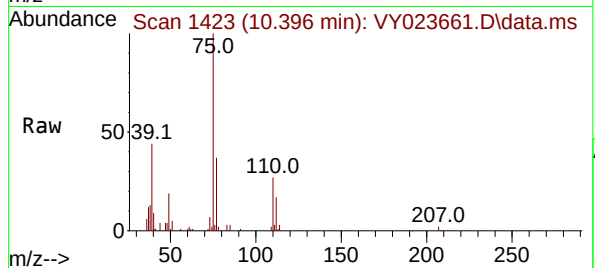
#53  
t-1,3-Dichloropropene  
Concen: 4.510 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Tgt Ion: 75 Resp: 2701  
Ion Ratio Lower Upper  
75 100  
77 35.8 25.6 38.4

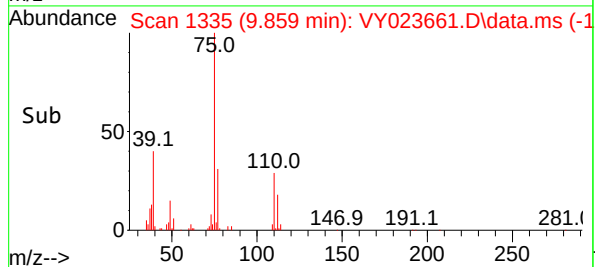
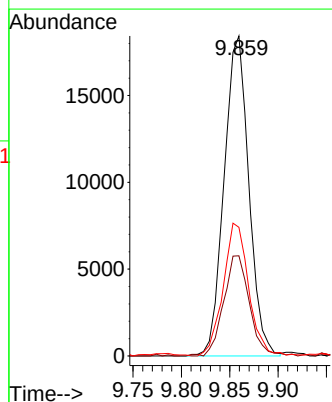
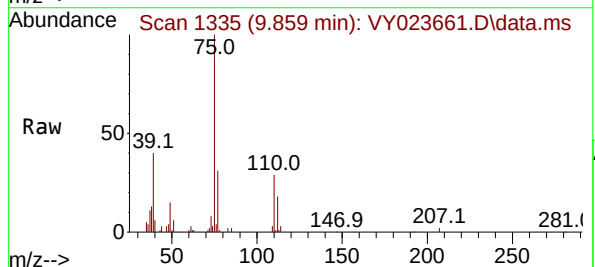
Manual Integrations  
APPROVED

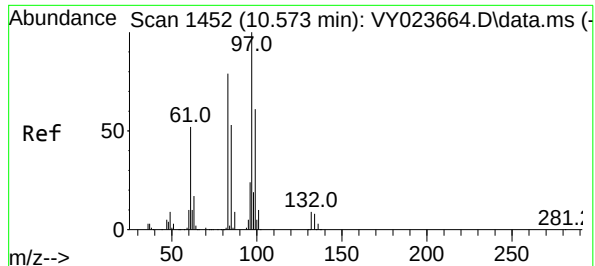
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#54  
cis-1,3-Dichloropropene  
Concen: 4.559 ug/l  
RT: 9.859 min Scan# 1335  
Delta R.T. 0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion: 75 Resp: 32719  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.7 38.5  
39 39.9 34.9 52.3





#55

1,1,2-Trichloroethane

Concen: 5.075 ug/l

RT: 10.573 min Scan# 1452

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 1904

Ion Ratio Lower Upper

97 100

83 78.2 63.3 94.9

85 49.9 42.4 63.6

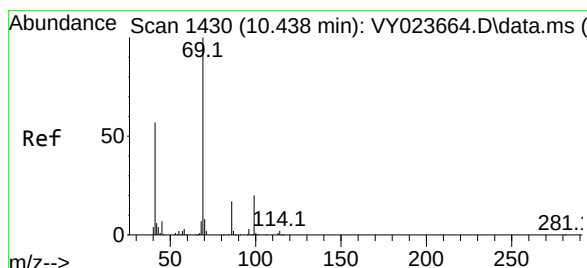
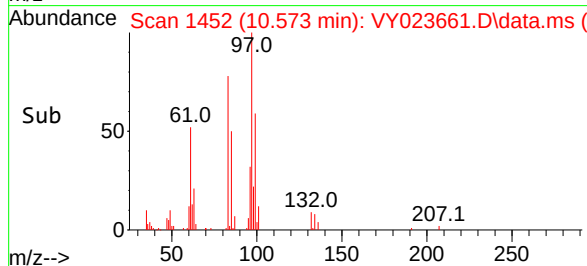
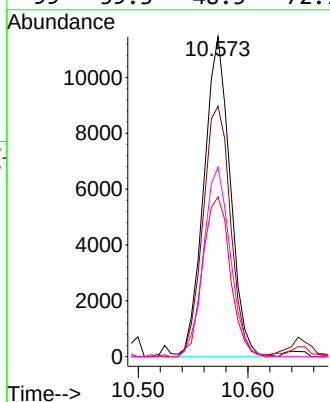
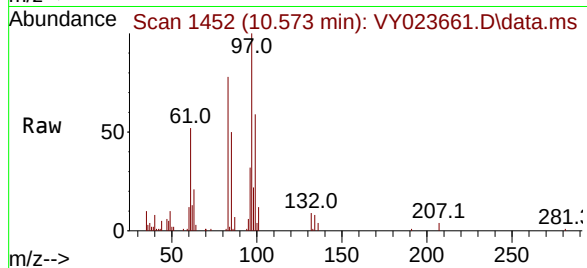
99 59.3 48.5 72.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#56

Ethyl methacrylate

Concen: 3.932 ug/l

RT: 10.439 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

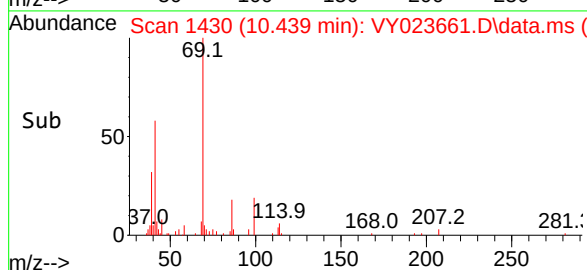
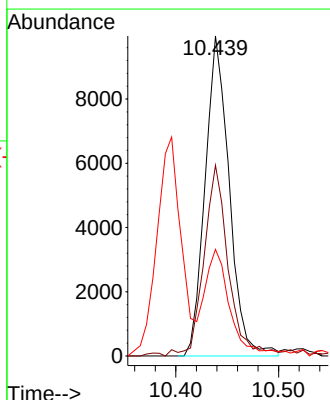
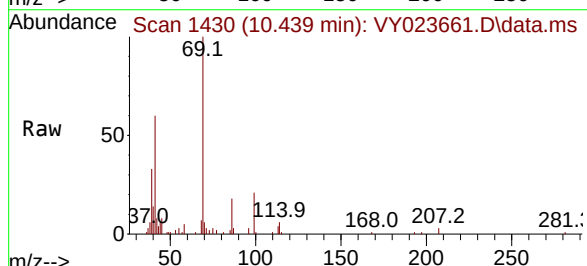
Tgt Ion: 69 Resp: 16257

Ion Ratio Lower Upper

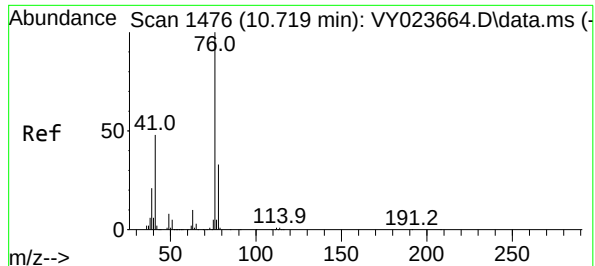
69 100

41 60.7 45.0 67.4

39 33.1 25.1 37.7







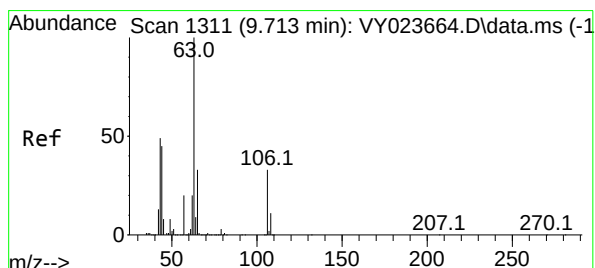
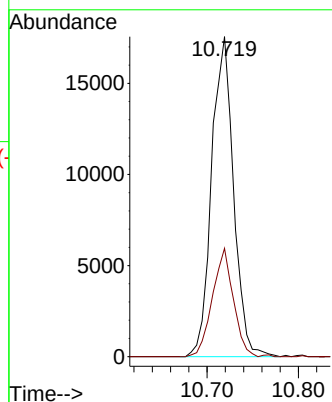
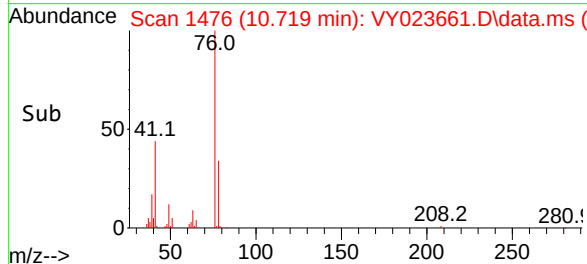
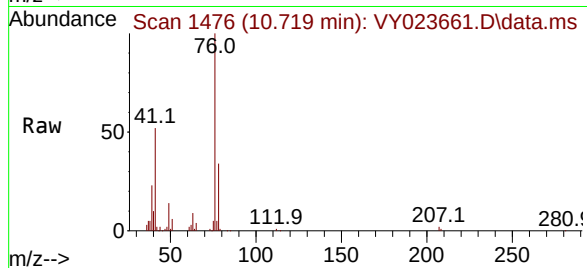
#57  
1,3-Dichloropropane  
Concen: 4.912 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion: 76 Resp: 29234  
Ion Ratio Lower Upper  
76 100  
78 32.5 26.0 39.0

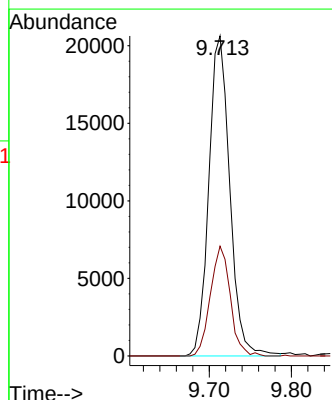
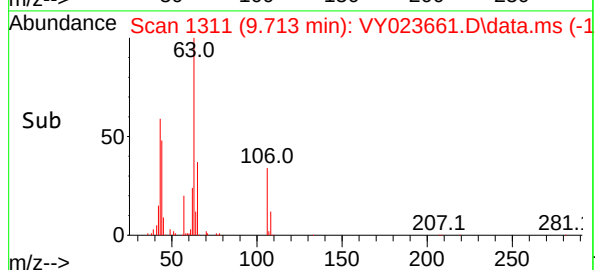
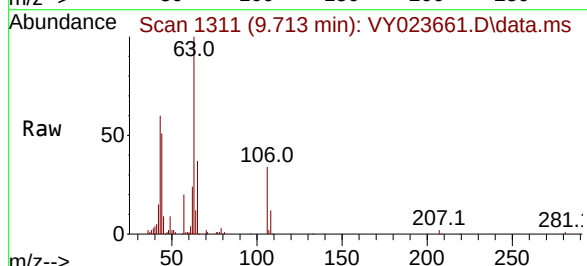
Manual Integrations  
APPROVED

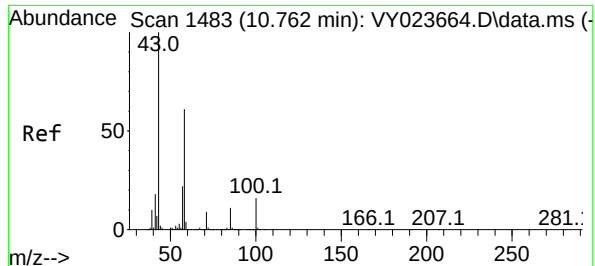
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 19.254 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

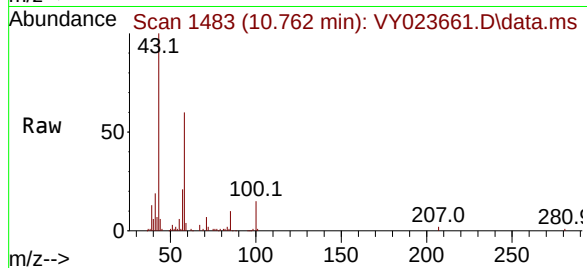
Tgt Ion: 63 Resp: 36528  
Ion Ratio Lower Upper  
63 100  
106 32.5 26.2 39.2





#59  
2-Hexanone  
Concen: 21.472 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

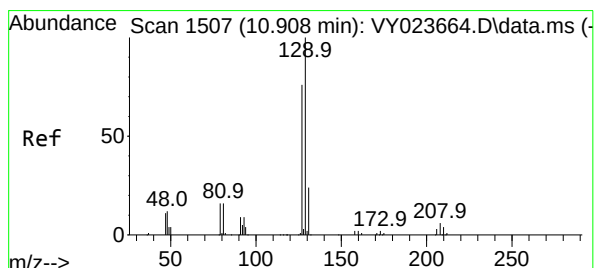
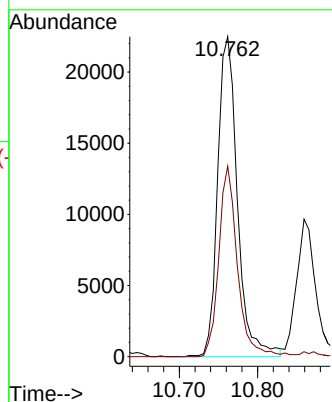
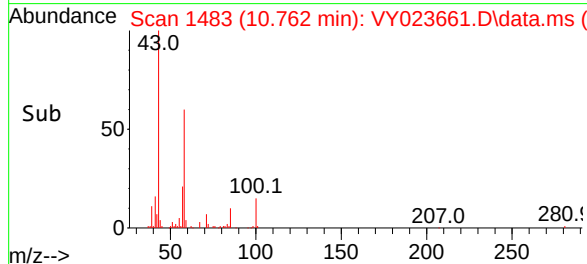
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005



Tgt Ion: 43 Resp: 3947  
Ion Ratio Lower Upper  
43 100  
58 56.3 30.2 90.6

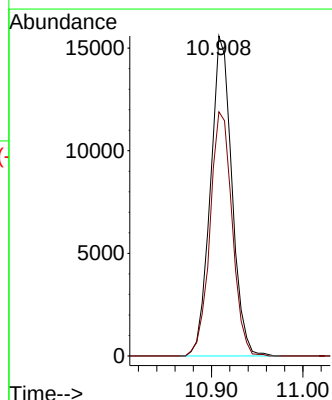
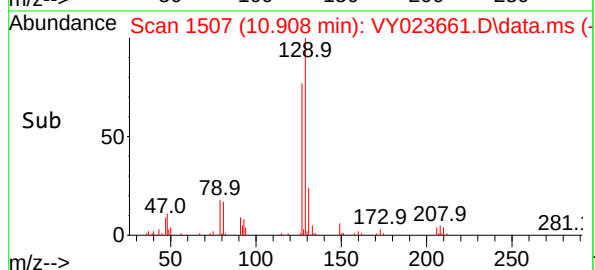
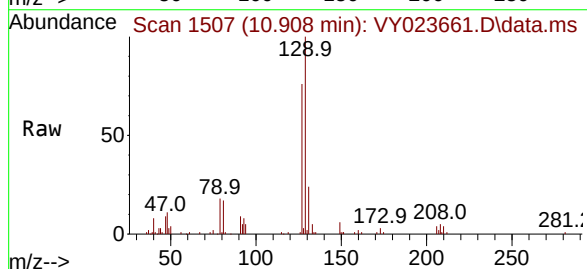
Manual Integrations  
APPROVED

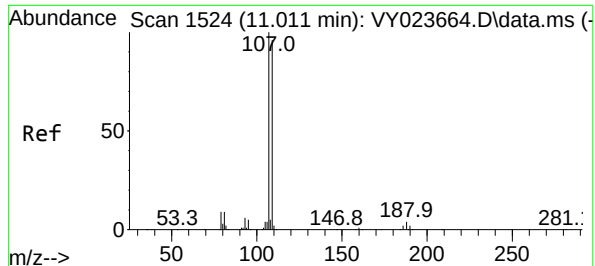
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#60  
Dibromochloromethane  
Concen: 4.921 ug/l  
RT: 10.908 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

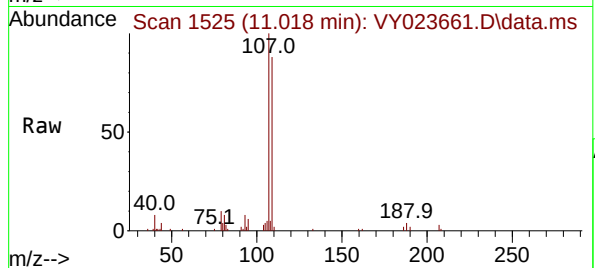
Tgt Ion:129 Resp: 25371  
Ion Ratio Lower Upper  
129 100  
127 78.7 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 4.900 ug/l  
RT: 11.018 min Scan# 1524  
Delta R.T. 0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

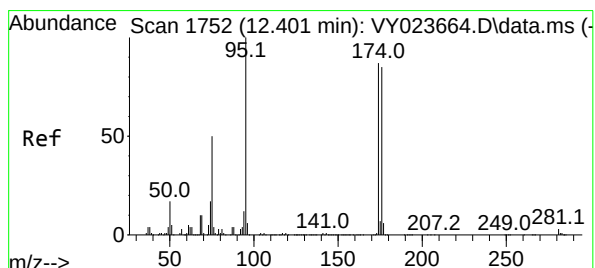
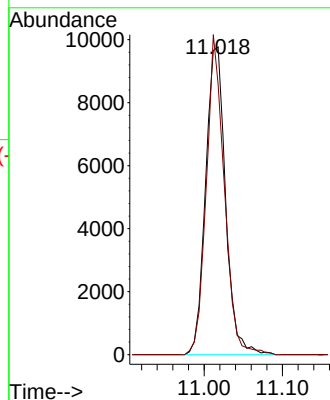
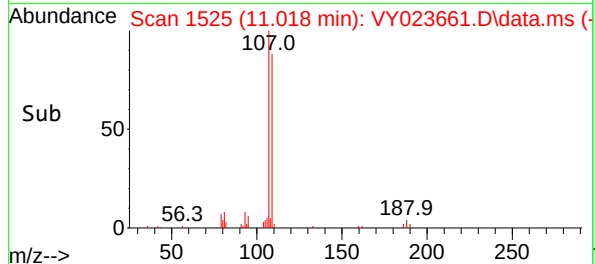
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



Tgt Ion:107 Resp: 17250  
Ion Ratio Lower Upper  
107 100  
109 93.9 76.2 114.4

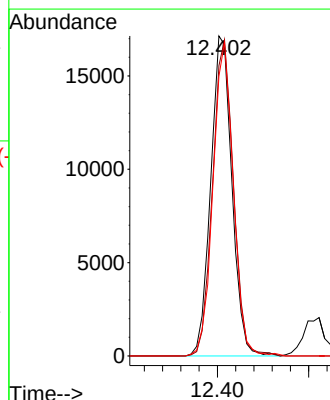
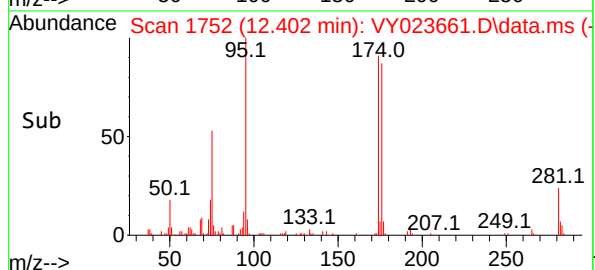
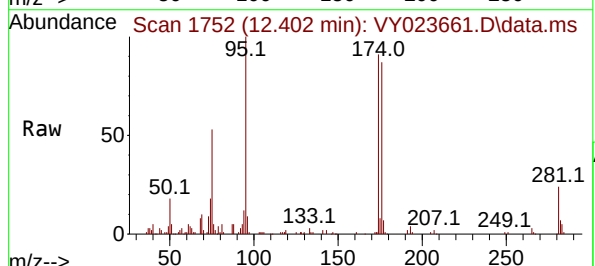
Manual Integrations  
APPROVED

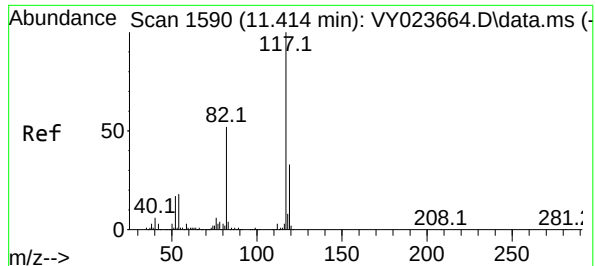
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 4.698 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

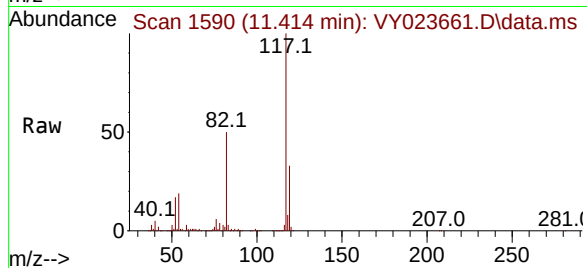
Tgt Ion: 95 Resp: 27590  
Ion Ratio Lower Upper  
95 100  
174 96.8 0.0 184.8  
176 93.9 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

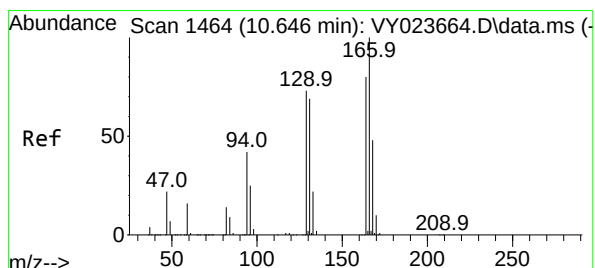
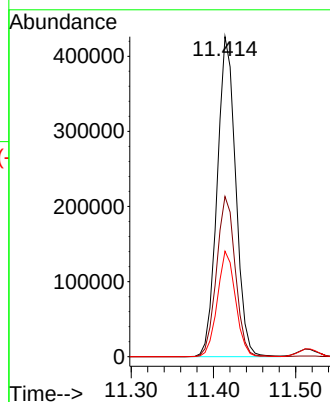
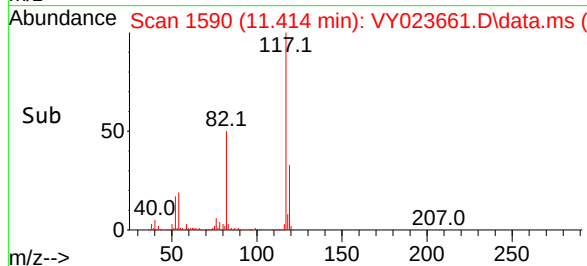
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



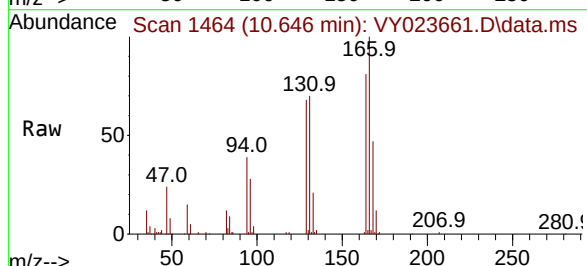
Tgt Ion:117 Resp: 667589  
Ion Ratio Lower Upper  
117 100  
82 50.0 41.2 61.8  
119 33.0 26.2 39.2

Manual Integrations  
APPROVED

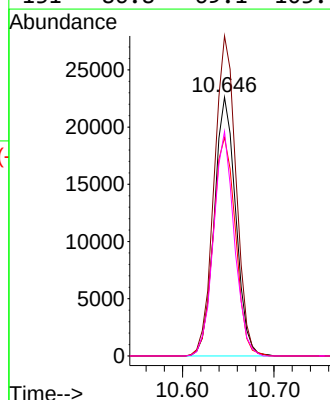
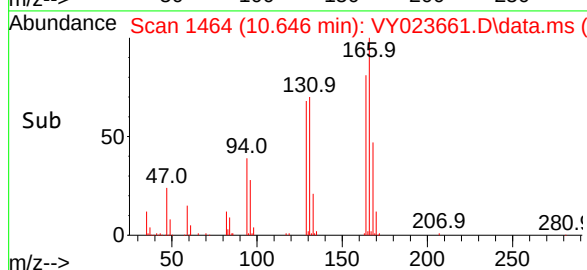
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

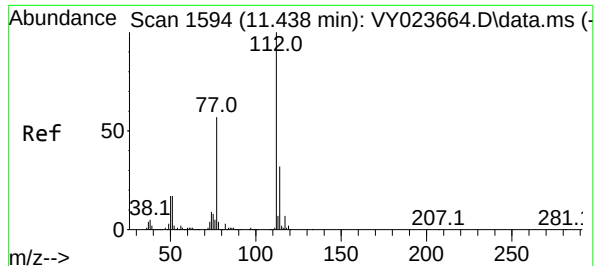


#64  
Tetrachloroethene  
Concen: 5.320 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



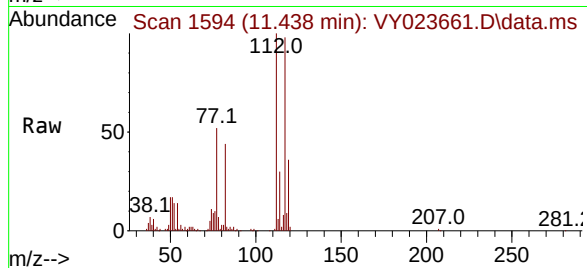
Tgt Ion:164 Resp: 36969  
Ion Ratio Lower Upper  
164 100  
166 123.7 99.5 149.3  
129 84.5 72.3 108.5  
131 86.8 69.1 103.7





#65  
Chlorobenzene  
Concen: 5.034 ug/l  
RT: 11.438 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

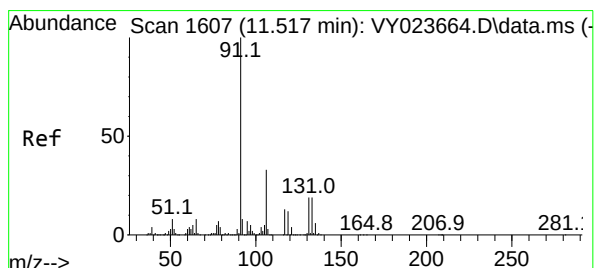
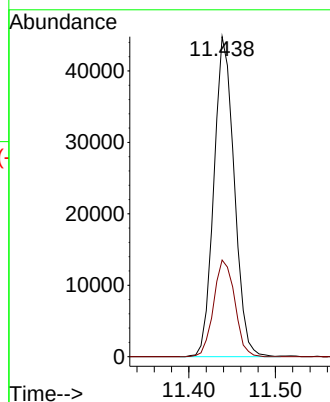
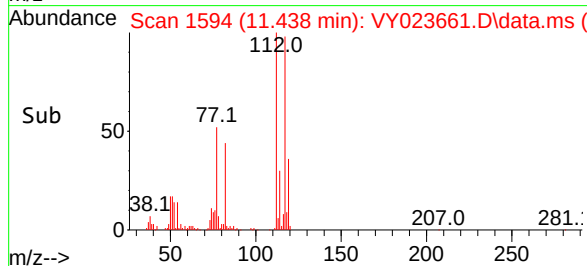
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



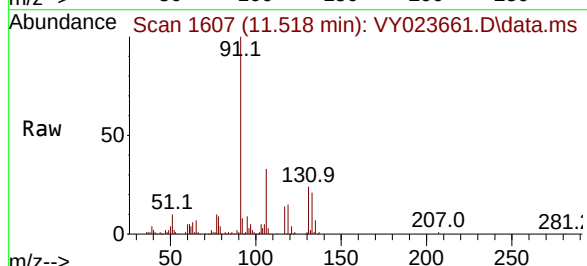
Tgt Ion:112 Resp: 73160  
Ion Ratio Lower Upper  
112 100  
114 30.2 25.8 38.6

Manual Integrations  
APPROVED

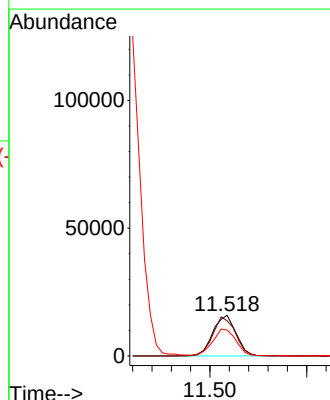
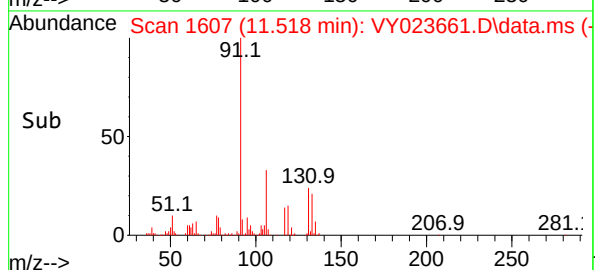
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

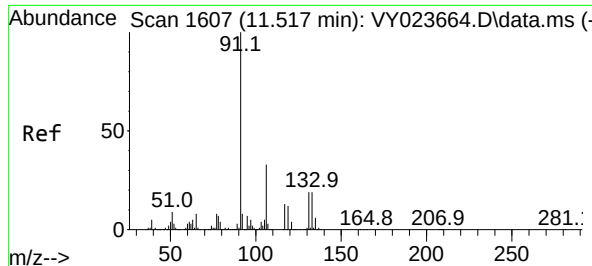


#66  
1,1,1,2-Tetrachloroethane  
Concen: 5.143 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



Tgt Ion:131 Resp: 26429  
Ion Ratio Lower Upper  
131 100  
133 94.6 47.3 141.8  
119 67.5 32.5 97.4





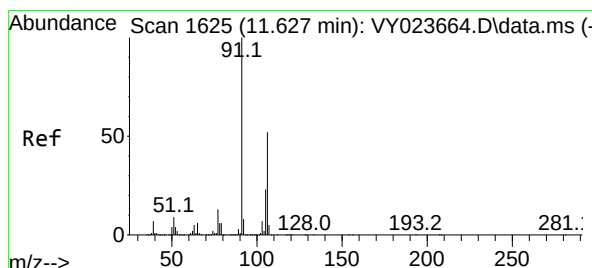
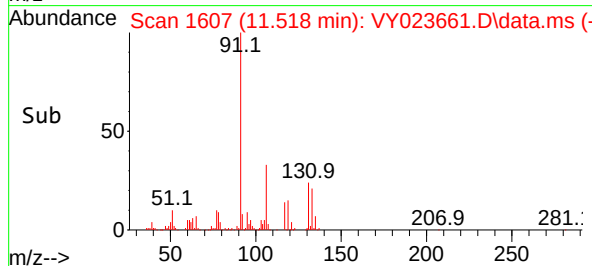
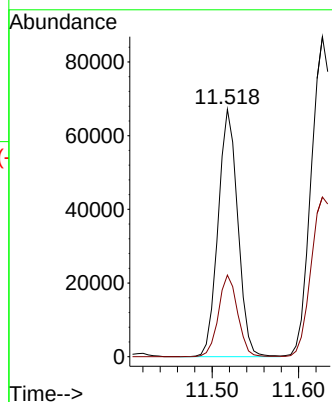
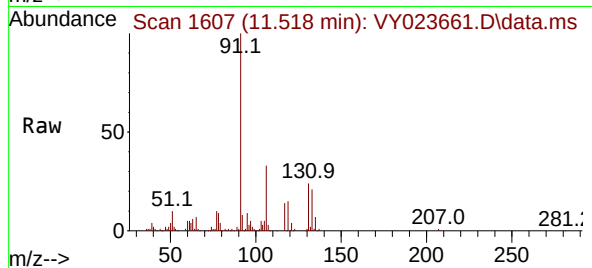
#67  
Ethyl Benzene  
Concen: 4.508 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion: 91 Resp: 10604  
Ion Ratio Lower Upper  
91 100  
106 33.0 26.6 40.0

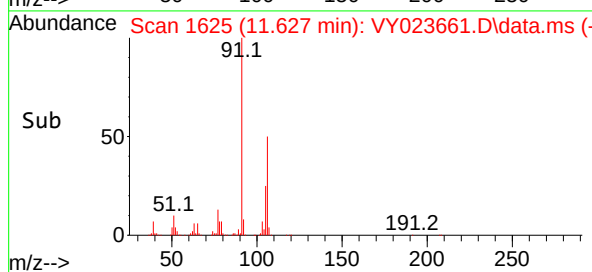
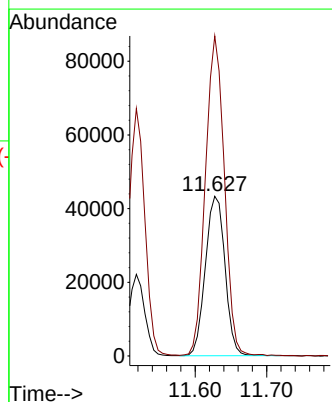
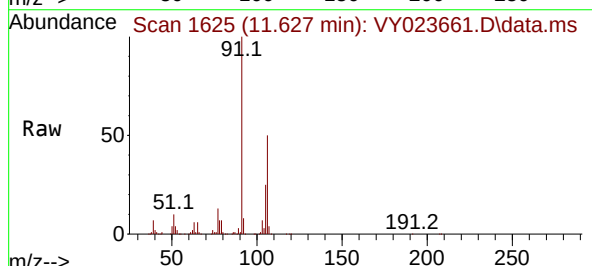
Manual Integrations  
APPROVED

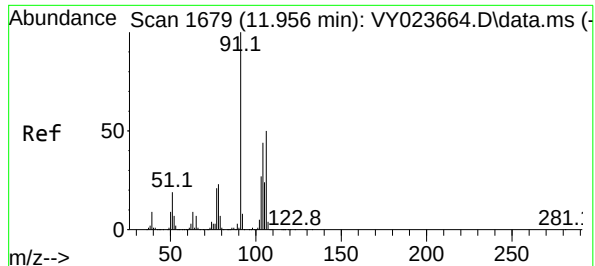
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#68  
m/p-Xylenes  
Concen: 8.785 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion:106 Resp: 82562  
Ion Ratio Lower Upper  
106 100  
91 194.5 154.3 231.5





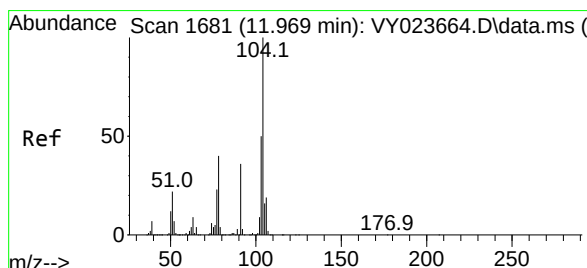
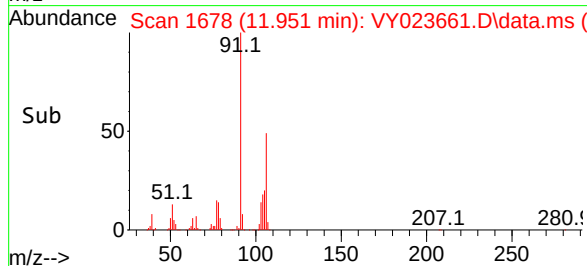
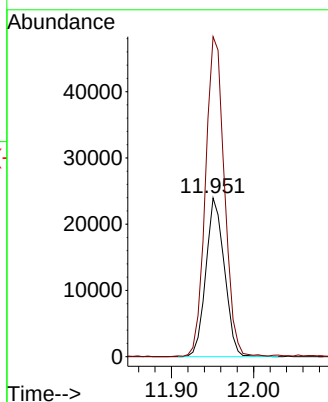
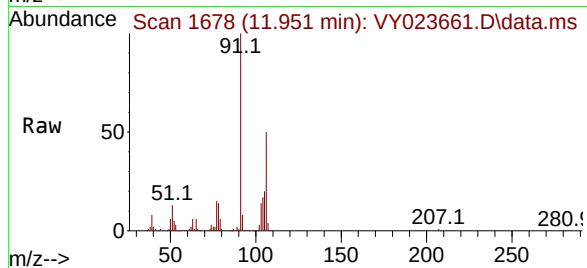
#69  
o-Xylene  
Concen: 4.317 ug/l  
RT: 11.951 min Scan# 1678  
Delta R.T. -0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Tgt Ion:106 Resp: 3750  
Ion Ratio Lower Upper  
106 100  
91 206.2 101.6 304.6

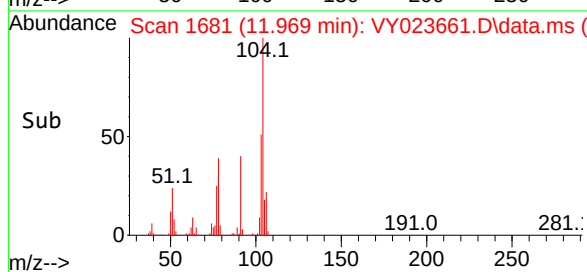
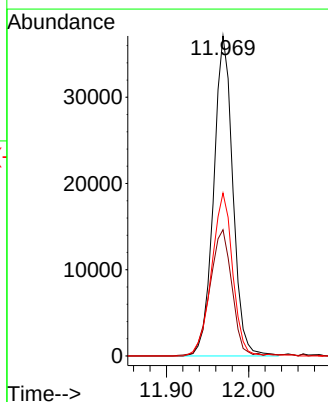
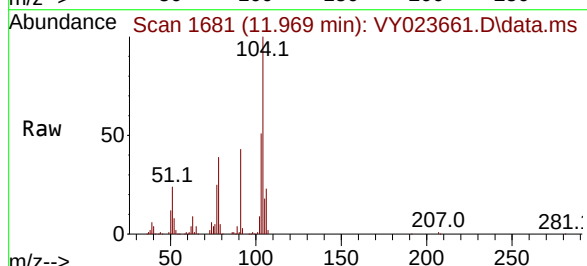
Manual Integrations  
APPROVED

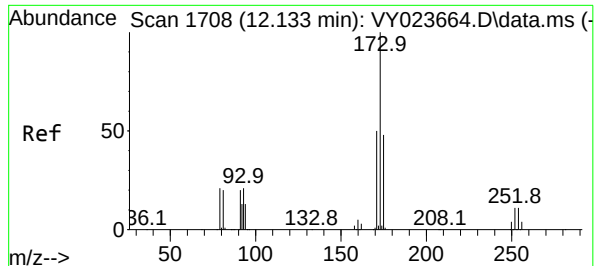
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 4.204 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion:104 Resp: 60258  
Ion Ratio Lower Upper  
104 100  
78 45.2 36.5 54.7  
103 55.5 43.7 65.5





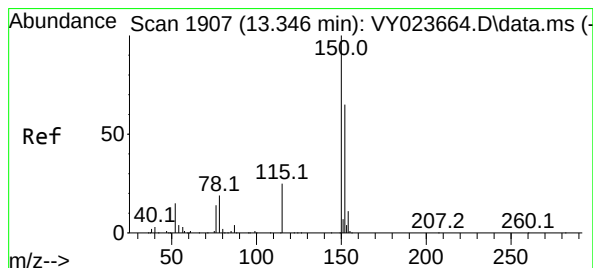
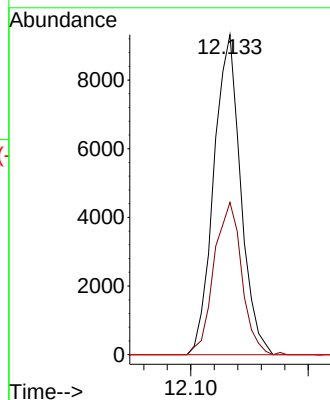
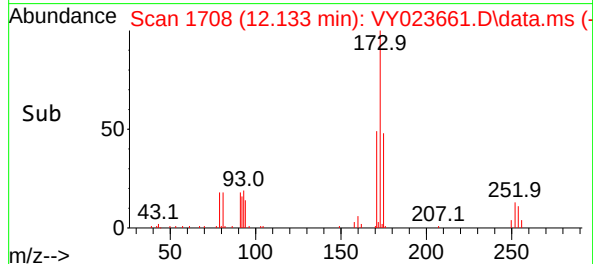
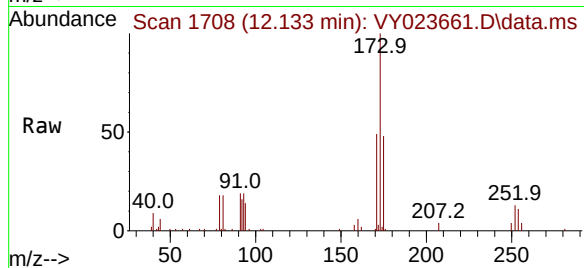
#71  
Bromoform  
Concen: 4.944 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion:173 Resp: 14838  
Ion Ratio Lower Upper  
173 100  
175 49.1 24.2 72.6  
254 0.0 0.2 0.2

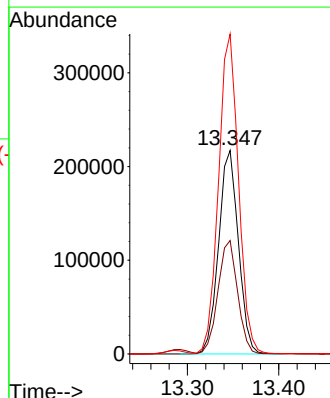
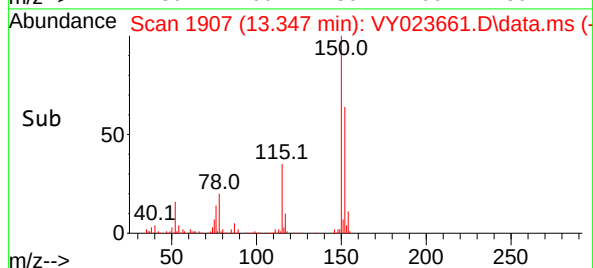
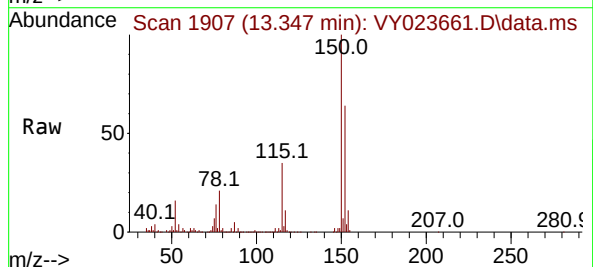
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

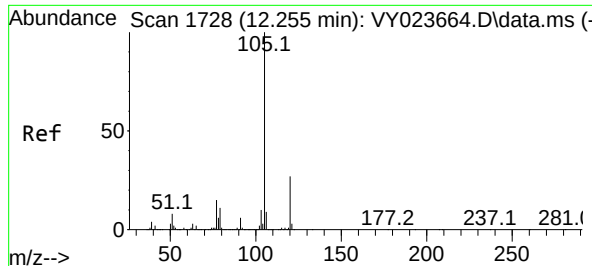


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion:152 Resp: 326953  
Ion Ratio Lower Upper  
152 100  
115 55.2 27.5 82.5  
150 158.5 0.0 349.0

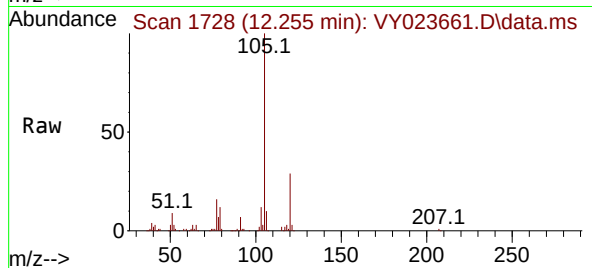






#73  
Isopropylbenzene  
Concen: 4.396 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

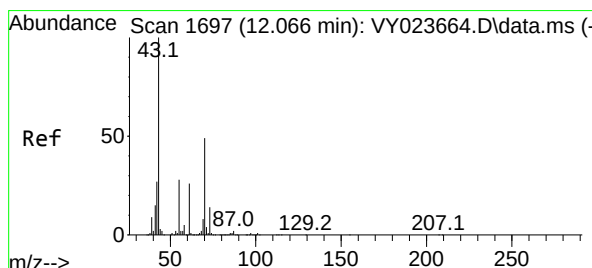
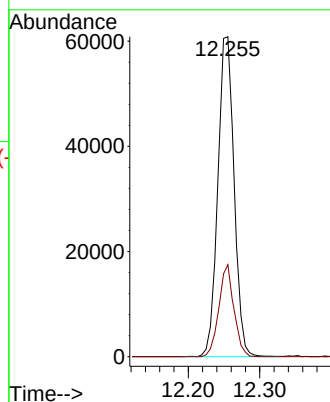
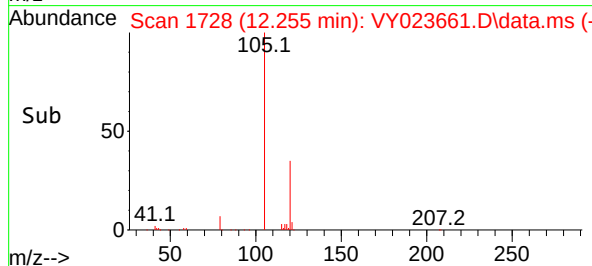
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



Tgt Ion: 105 Resp: 96120  
Ion Ratio Lower Upper  
105 100  
120 26.5 13.6 40.7

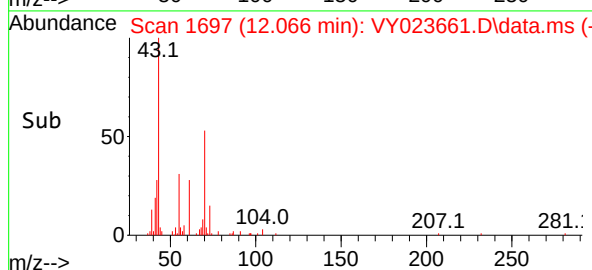
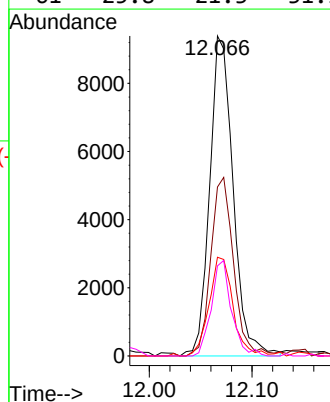
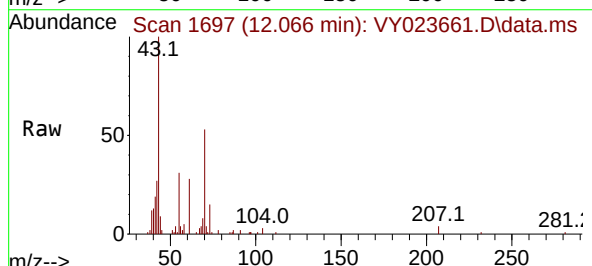
Manual Integrations  
APPROVED

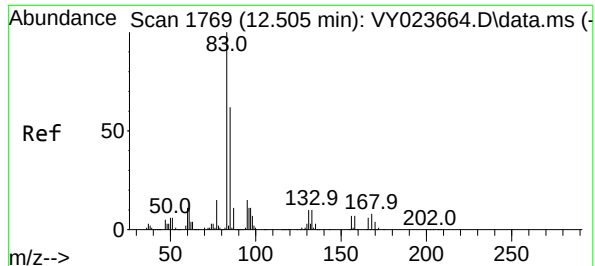
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 4.019 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

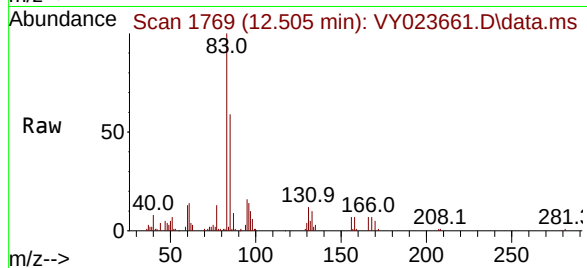
Tgt Ion: 43 Resp: 14878  
Ion Ratio Lower Upper  
43 100  
70 54.2 40.1 60.1  
55 31.8 23.0 34.6  
61 25.8 21.3 31.9





#75  
1,1,2-Tetrachloroethane  
Concen: 5.181 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

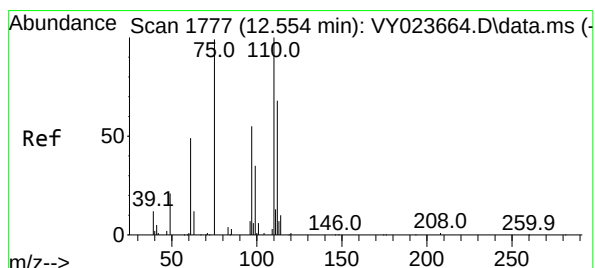
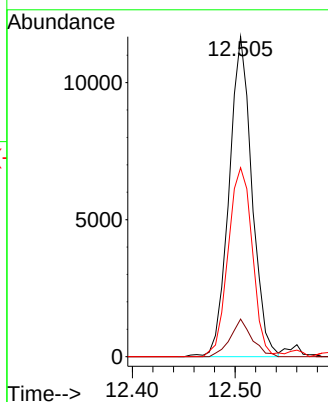
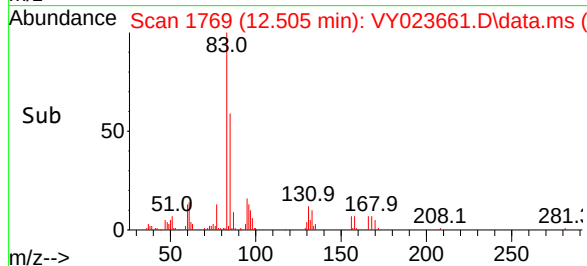
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



Tgt Ion: 83 Resp: 18090  
Ion Ratio Lower Upper  
83 100  
131 11.1 5.7 17.0  
85 62.6 31.9 95.7

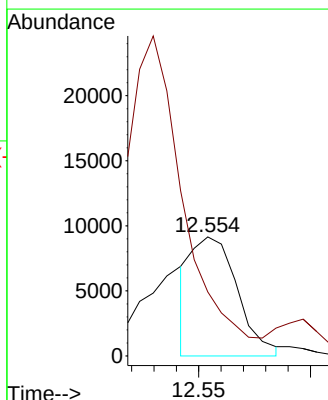
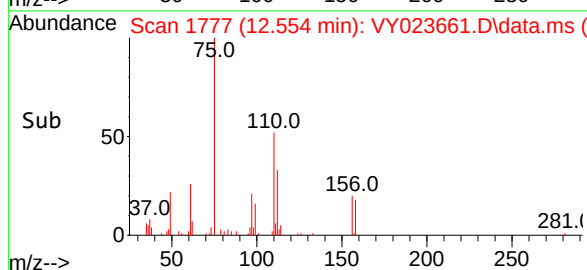
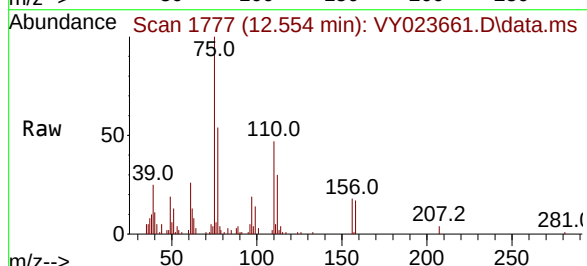
Manual Integrations  
APPROVED

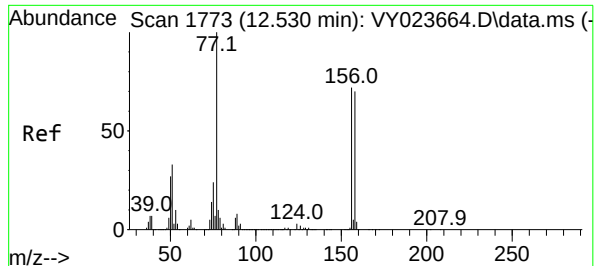
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#76  
1,2,3-Trichloropropane  
Concen: 4.977 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion: 75 Resp: 13170  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





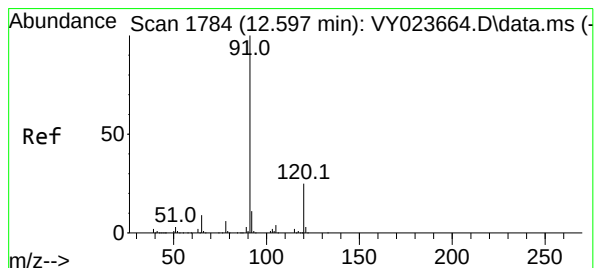
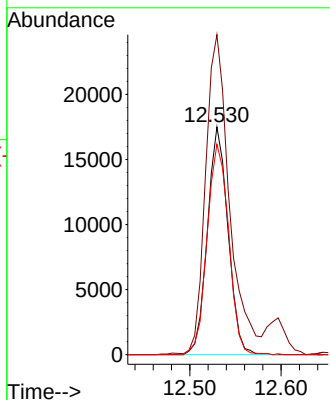
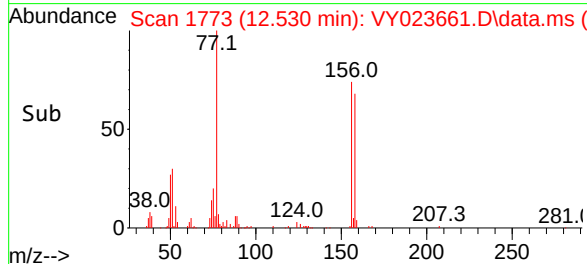
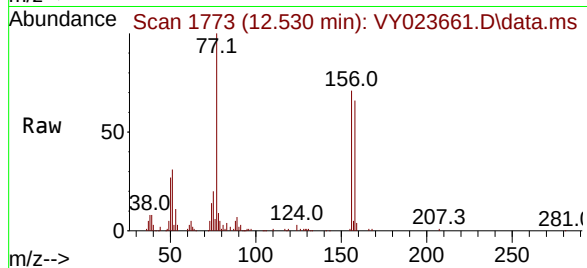
#77  
Bromobenzene  
Concen: 4.826 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005

Tgt Ion:156 Resp: 2737  
Ion Ratio Lower Upper  
156 100  
77 163.9 77.9 233.7  
158 96.8 48.5 145.5

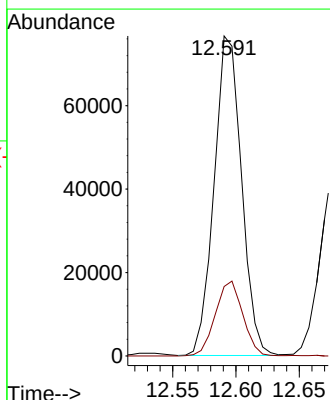
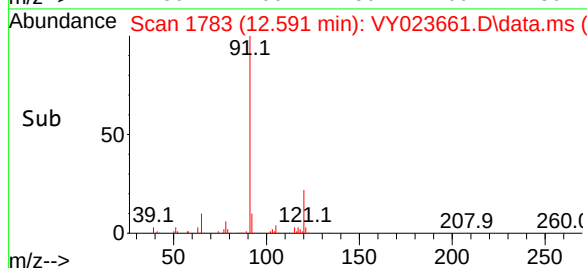
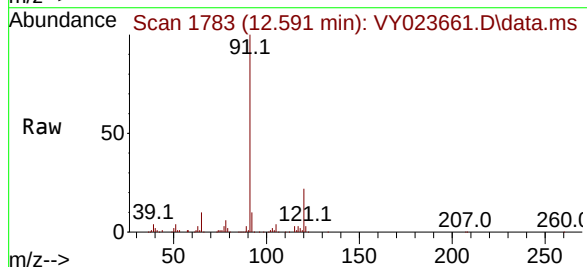
Manual Integrations  
APPROVED

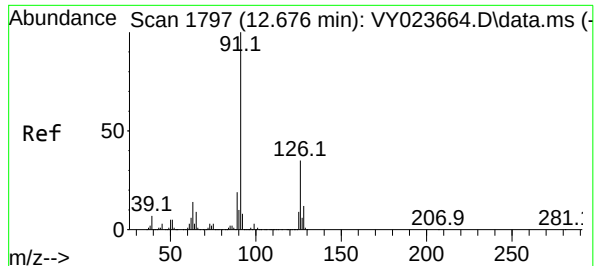
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 4.482 ug/l  
RT: 12.591 min Scan# 1783  
Delta R.T. -0.006 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion: 91 Resp: 115286  
Ion Ratio Lower Upper  
91 100  
120 23.5 12.0 36.1





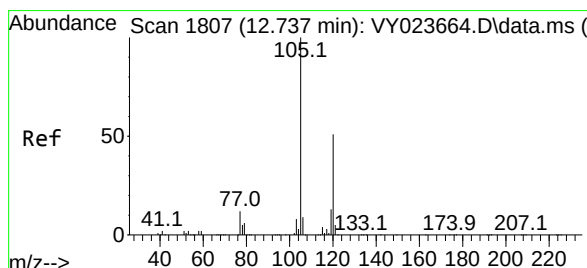
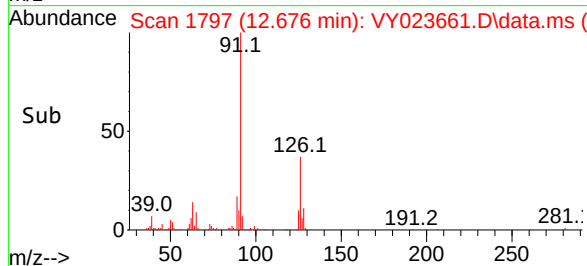
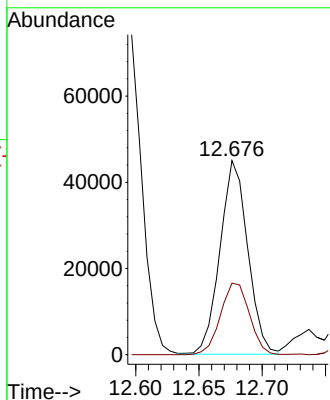
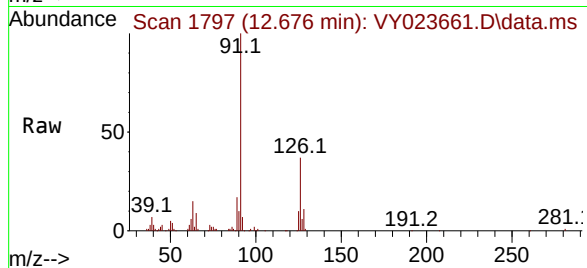
#79  
2-Chlorotoluene  
Concen: 4.599 ug/l  
RT: 12.676 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Tgt Ion: 91 Resp: 68648  
Ion Ratio Lower Upper  
91 100  
126 38.6 18.0 54.0

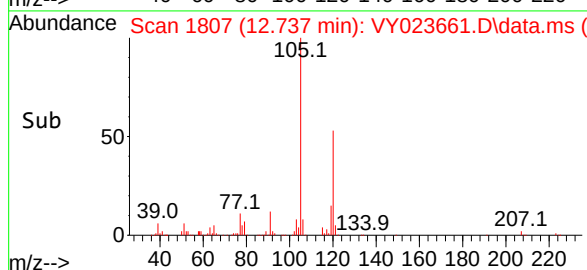
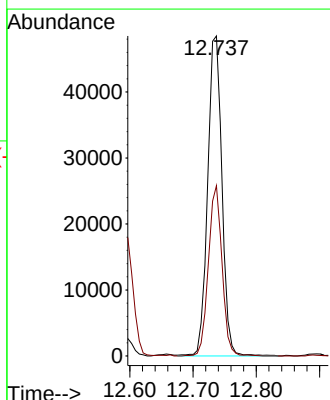
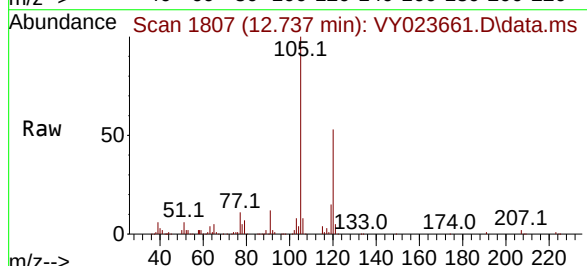
Manual Integrations  
APPROVED

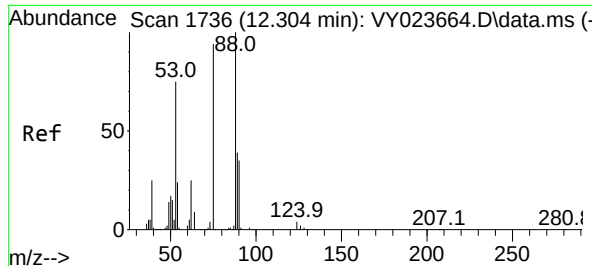
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 4.288 ug/l  
RT: 12.737 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

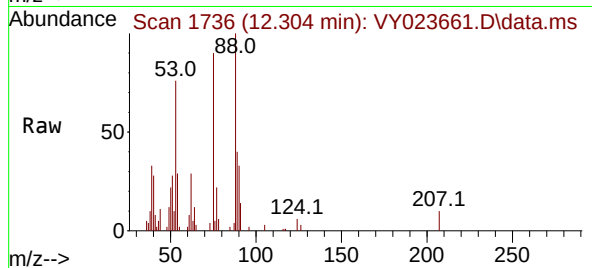
Tgt Ion:105 Resp: 76176  
Ion Ratio Lower Upper  
105 100  
120 50.9 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 4.829 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

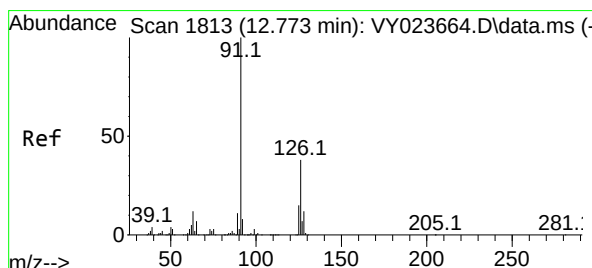
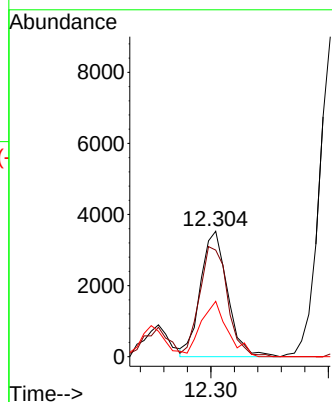
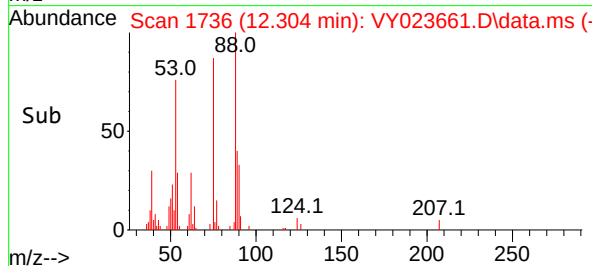
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005



Tgt Ion: 75 Resp: 5654  
Ion Ratio Lower Upper  
75 100  
53 90.7 69.6 104.4  
89 43.1 38.2 57.4

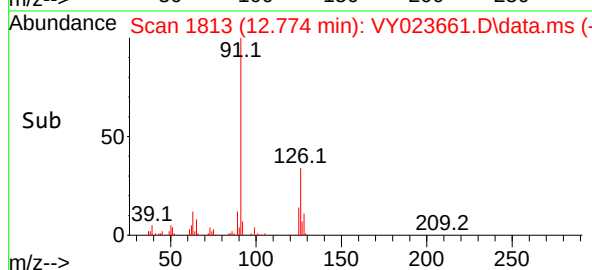
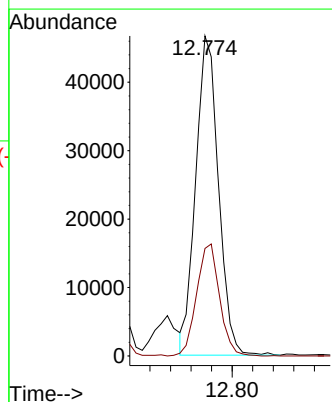
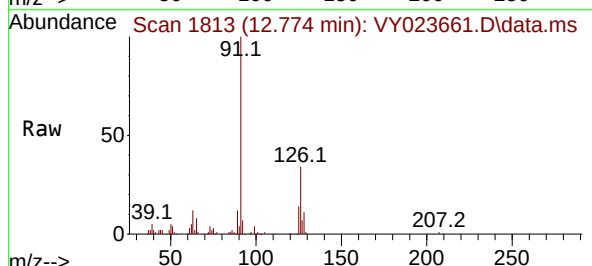
Manual Integrations  
APPROVED

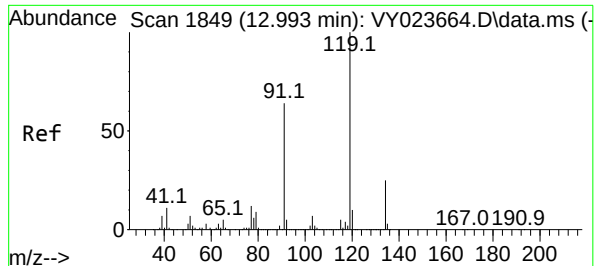
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 4.657 ug/l  
RT: 12.774 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

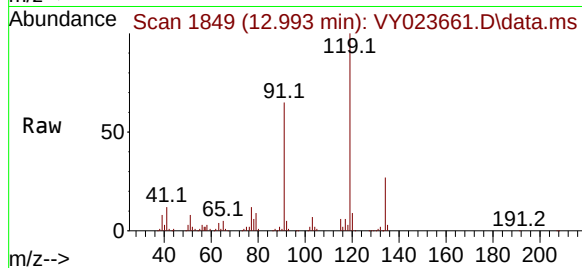
Tgt Ion: 91 Resp: 71686  
Ion Ratio Lower Upper  
91 100  
126 35.4 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 4.388 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

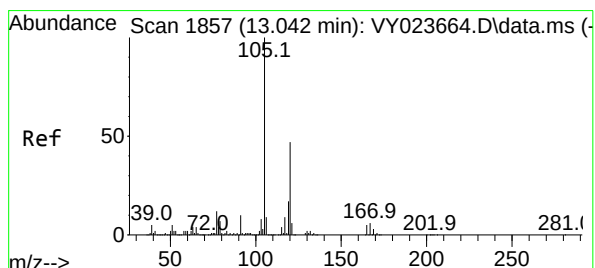
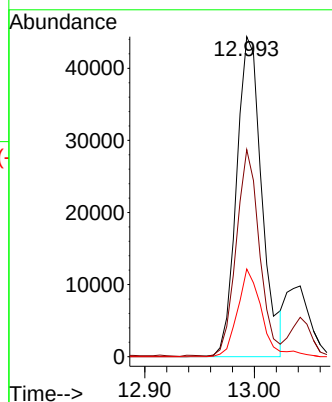
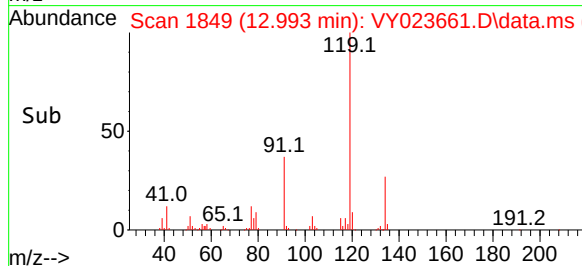
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005



Tgt Ion:119 Resp: 70998  
Ion Ratio Lower Upper  
119 100  
91 59.4 30.7 92.1  
134 26.2 13.1 39.1

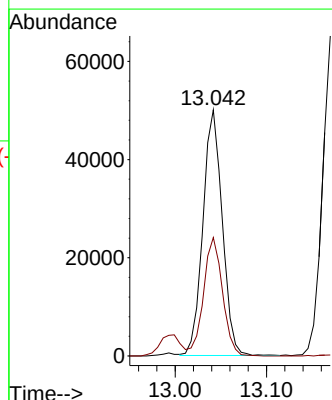
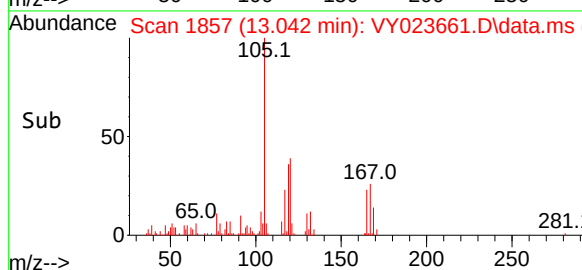
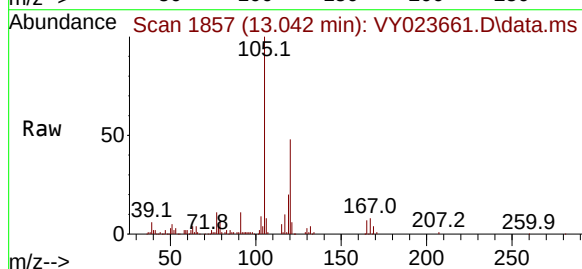
Manual Integrations  
APPROVED

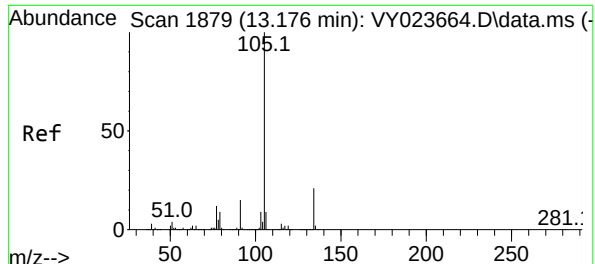
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 4.177 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

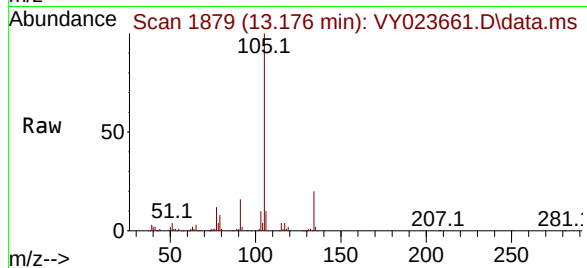
Tgt Ion:105 Resp: 73513  
Ion Ratio Lower Upper  
105 100  
120 47.4 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 4.450 ug/l  
RT: 13.176 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

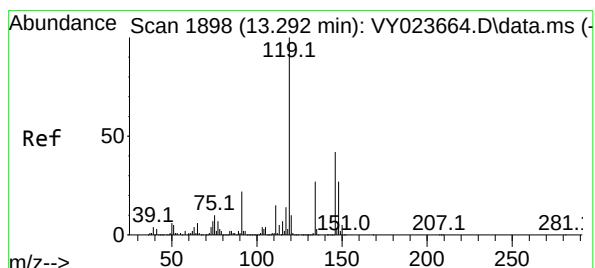
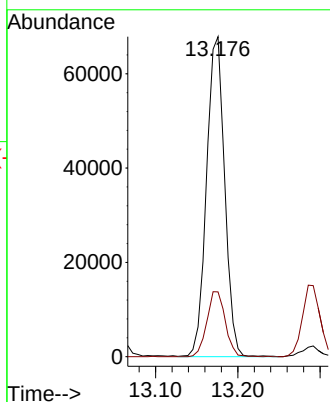
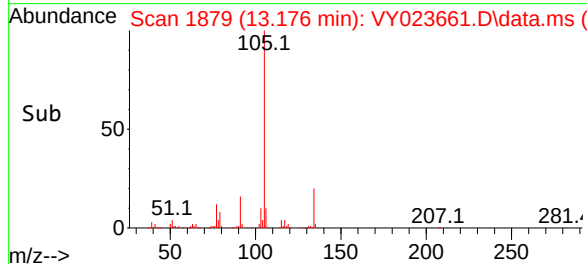
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005



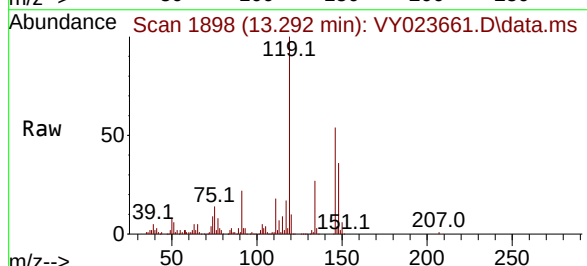
Tgt Ion:105 Resp: 103852  
Ion Ratio Lower Upper  
105 100  
134 20.6 10.4 31.4

Manual Integrations  
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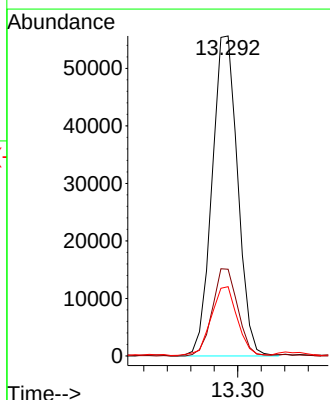
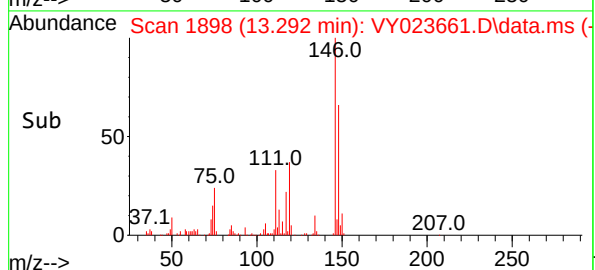
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

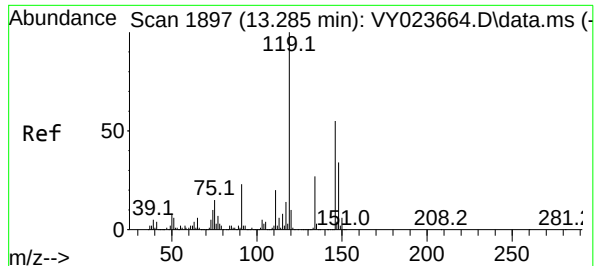


#86  
p-Isopropyltoluene  
Concen: 4.265 ug/l  
RT: 13.292 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



Tgt Ion:119 Resp: 84269  
Ion Ratio Lower Upper  
119 100  
134 27.0 13.4 40.2  
91 21.9 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 4.919 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

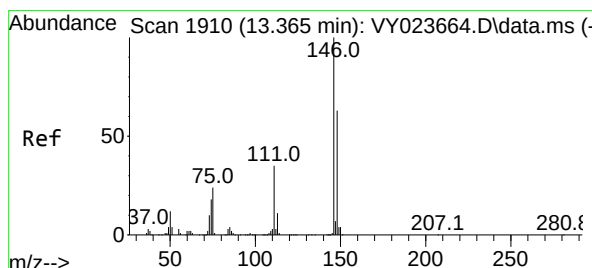
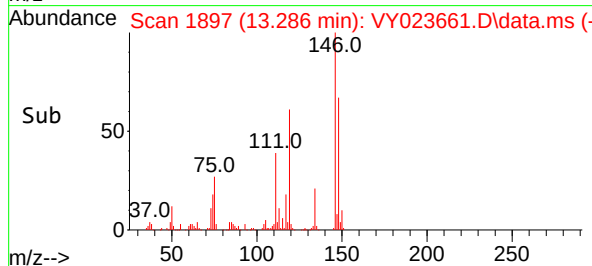
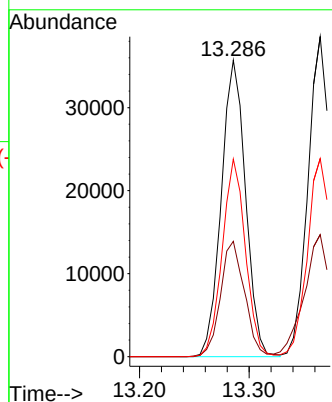
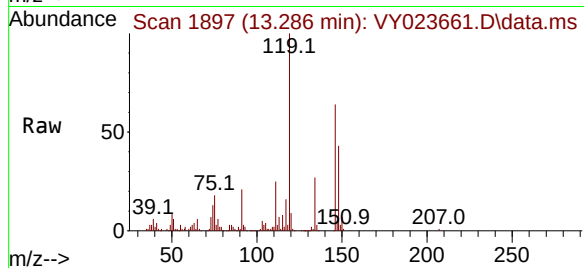
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 54910     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 38.4  | 18.8 56.3 |
| 148         | 63.9  | 31.9 95.5 |

## Manual Integrations

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Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 5.223 ug/l

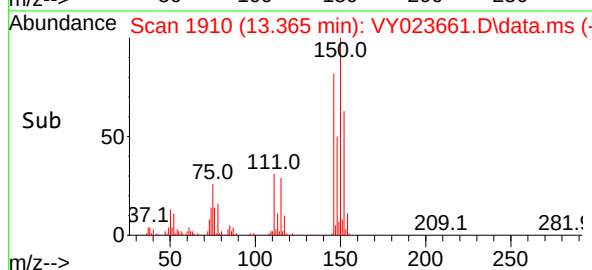
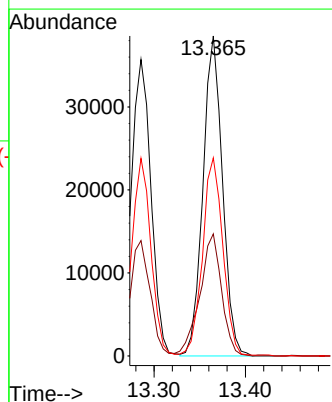
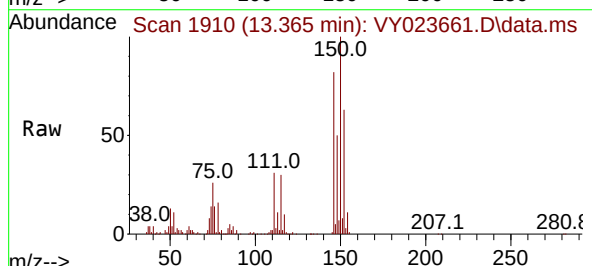
RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

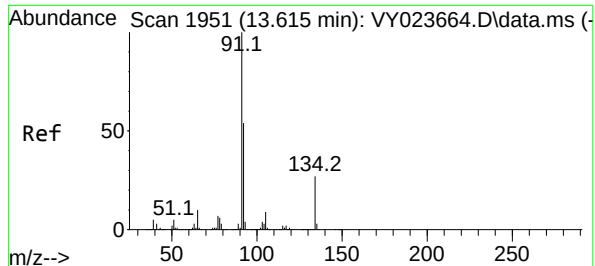
Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 57281     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 42.7  | 18.3 54.8 |
| 148         | 64.8  | 31.8 95.3 |







#89

n-Butylbenzene

Concen: 4.364 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

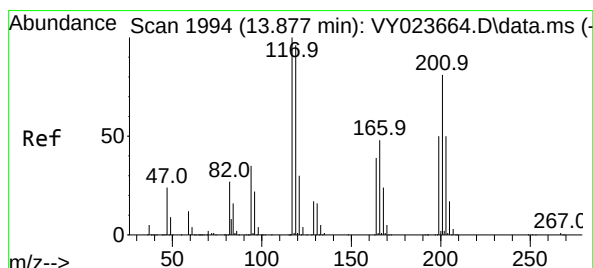
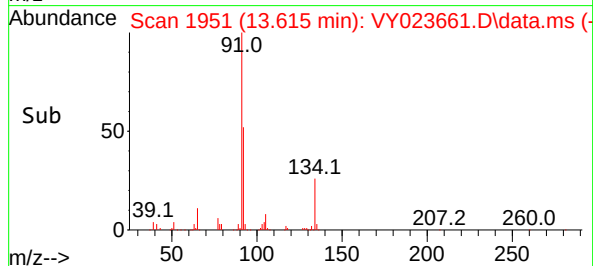
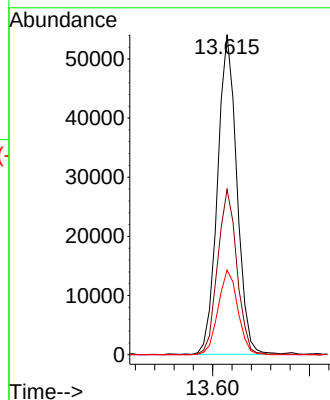
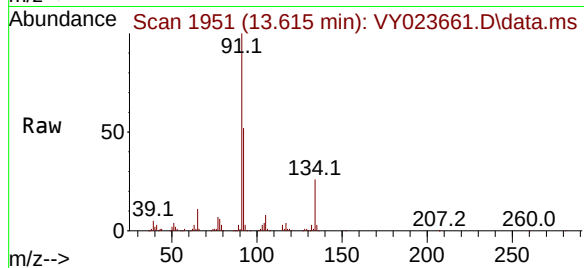
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 74974 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 51.7  | 26.5  | 79.4  |
| 134       | 26.9  | 13.7  | 41.1  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 5.060 ug/l

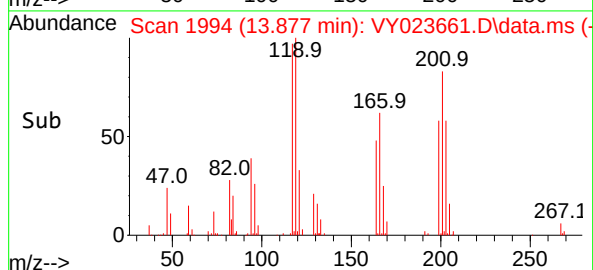
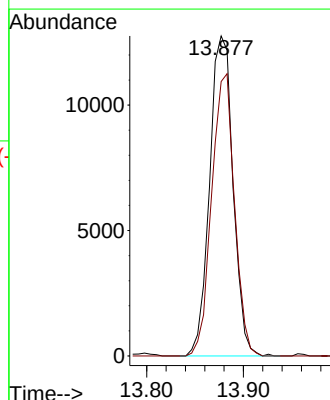
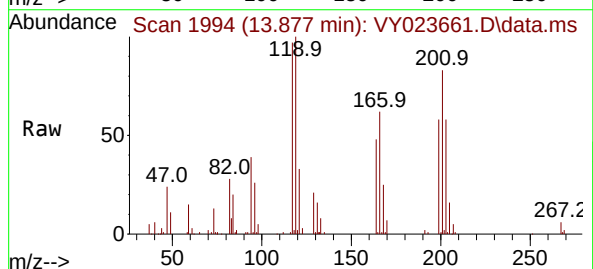
RT: 13.877 min Scan# 1994

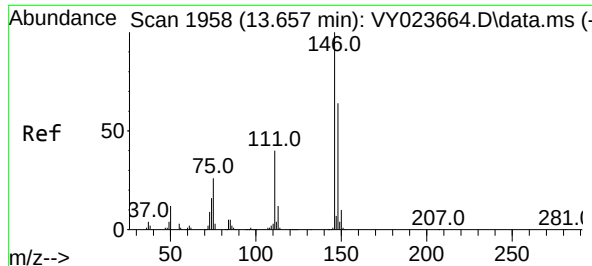
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

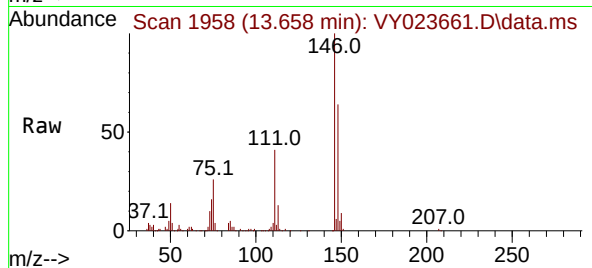
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 21483 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 85.8  | 42.3  | 126.8 |





#91  
1,2-Dichlorobenzene  
Concen: 4.989 ug/l  
RT: 13.658 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

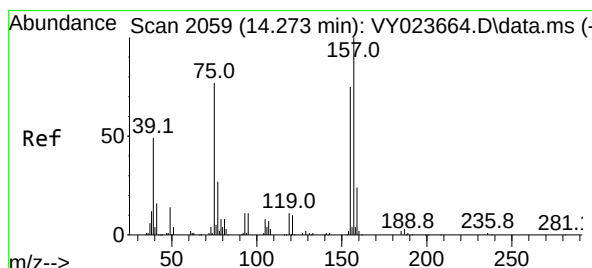
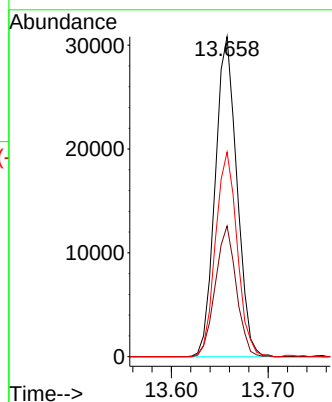
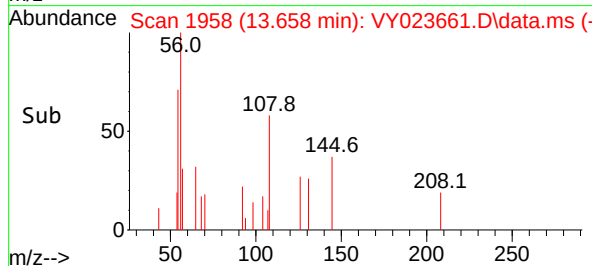
Instrument : MSVOA\_Y  
ClientSampleId : VSTDIC005



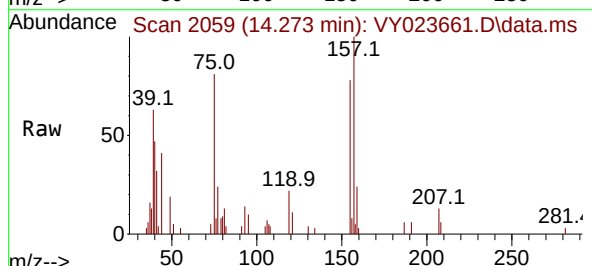
Tgt Ion:146 Resp: 47997  
Ion Ratio Lower Upper  
146 100  
111 39.5 19.5 58.5  
148 63.9 31.9 95.9

Manual Integrations  
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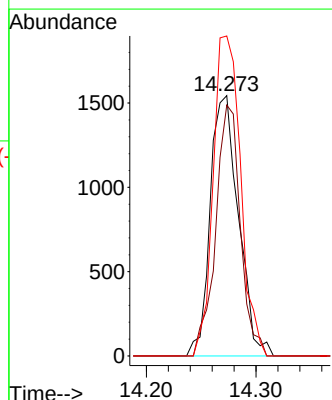
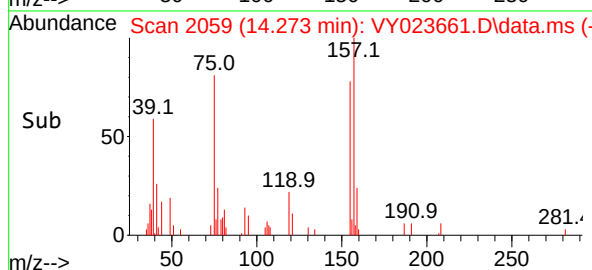
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

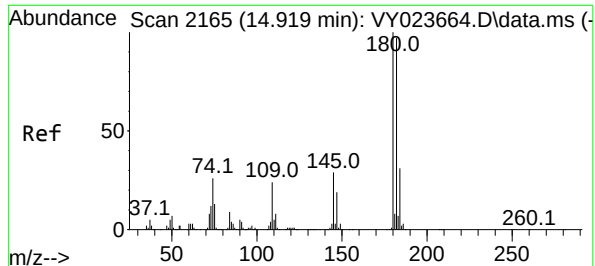


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 5.138 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19



Tgt Ion: 75 Resp: 2763  
Ion Ratio Lower Upper  
75 100  
155 84.5 49.4 148.2  
157 119.2 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 4.384 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC005

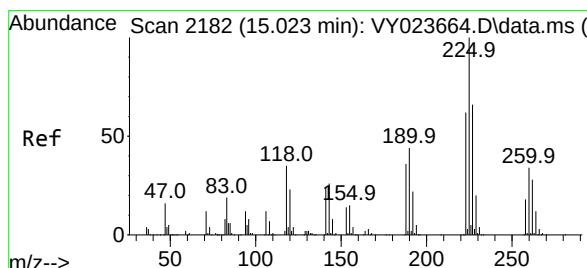
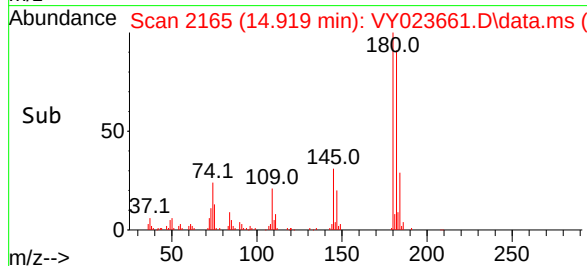
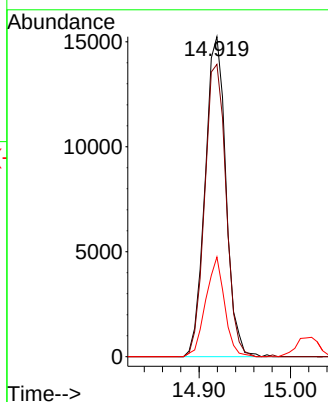
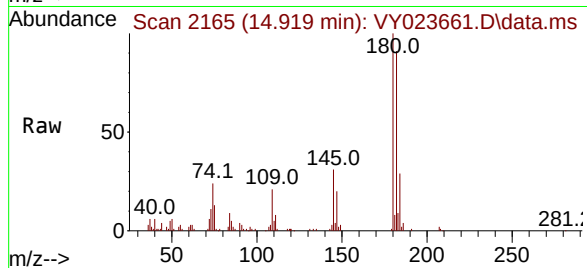
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.2  | 47.5  | 142.6 |
| 145     | 28.2  | 14.4  | 43.4  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#94

Hexachlorobutadiene

Concen: 5.086 ug/l

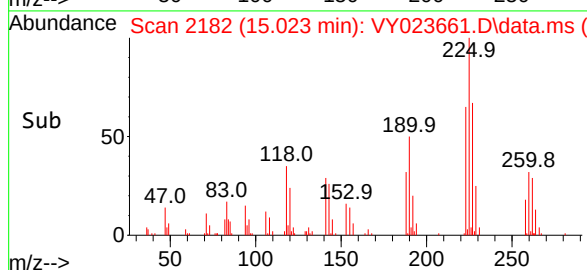
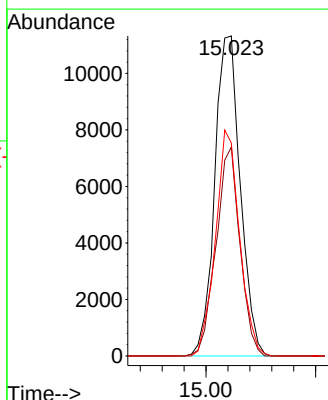
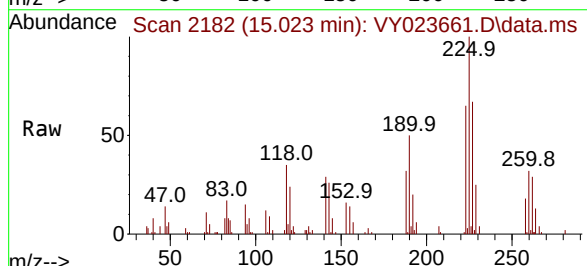
RT: 15.023 min Scan# 2182

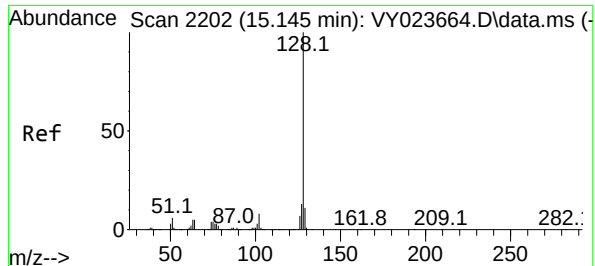
Delta R.T. 0.000 min

Lab File: VY023661.D

Acq: 04 Nov 2025 09:19

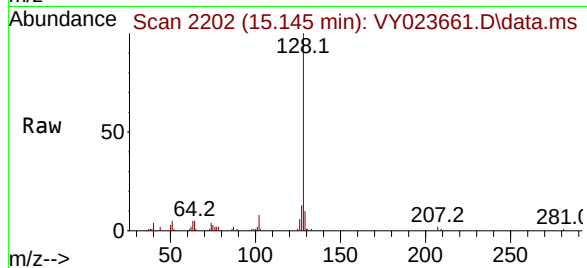
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.1  | 30.8  | 92.3  |
| 227     | 66.5  | 32.0  | 96.2  |





#95  
Naphthalene  
Concen: 8.168 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

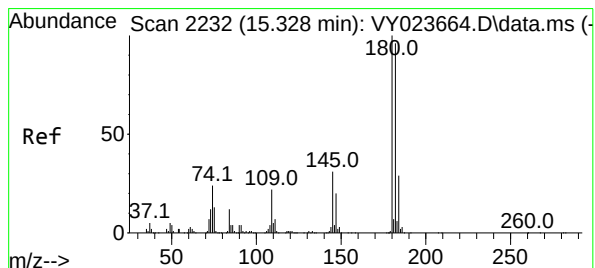
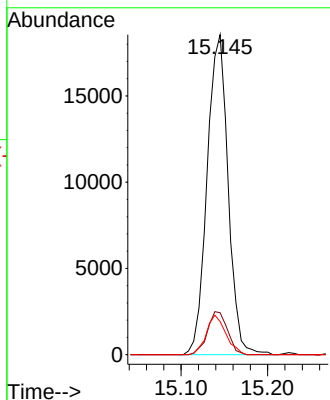
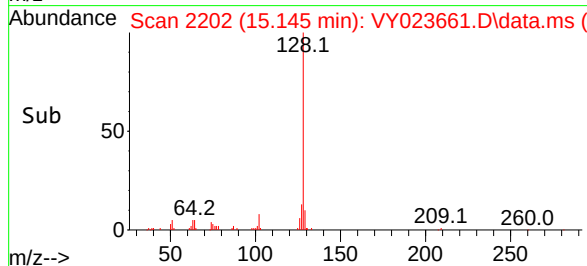
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC005



Tgt Ion:128 Resp: 31252  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.5 15.7  
129 11.5 8.8 13.2

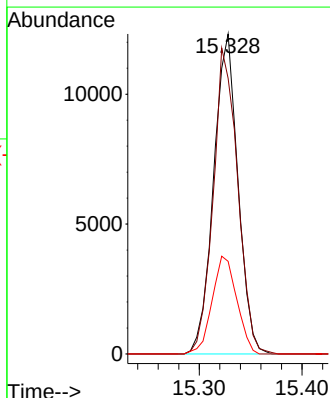
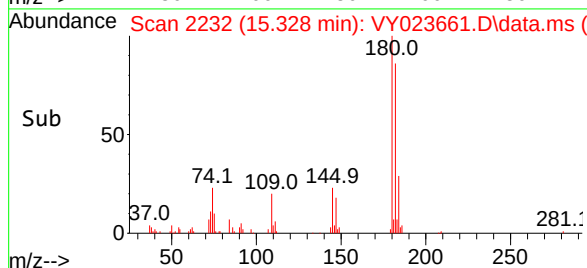
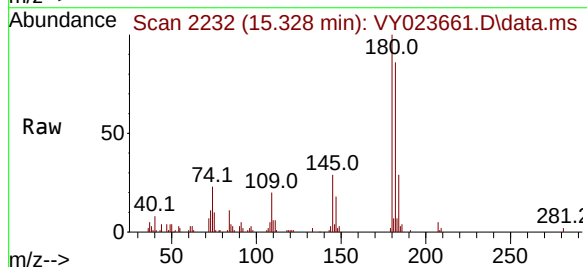
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 4.405 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023661.D  
Acq: 04 Nov 2025 09:19

Tgt Ion:180 Resp: 20253  
Ion Ratio Lower Upper  
180 100  
182 96.0 47.5 142.6  
145 30.9 15.5 46.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023662.D  
 Acq On : 04 Nov 2025 09:42  
 Operator : SY/MD  
 Sample : VSTDICC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 529353     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.615          | 114  | 803774     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.413         | 117  | 690563     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 340245     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.060          | 65   | 45020      | 9.970    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 19.940%# |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 50749      | 10.103   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 20.200%# |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 184529     | 9.862    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 19.720%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.401         | 95   | 56847      | 9.395    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 18.780%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.866          | 85   | 40187      | 11.565   | ug/l   | 97       |
| 3) Chloromethane             | 2.074          | 50   | 54024      | 11.110   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 70038      | 11.069   | ug/l   | 98       |
| 5) Bromomethane              | 2.598          | 94   | 58773      | 11.043   | ug/l   | 94       |
| 6) Chloroethane              | 2.738          | 64   | 48132      | 11.006   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.055          | 101  | 96161      | 10.791   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.458          | 74   | 24107      | 10.088   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.817          | 101  | 53535      | 10.904   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.006          | 142  | 57829      | 9.974    | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.866          | 59   | 14032      | 48.194   | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 48878      | 10.335   | ug/l   | 97       |
| 13) Acrolein                 | 3.653          | 56   | 19002      | 50.776   | ug/l   | 97       |
| 14) Allyl chloride           | 4.390          | 41   | 56587      | 9.830    | ug/l   | 99       |
| 15) Acrylonitrile            | 5.067          | 53   | 42033      | 46.026   | ug/l   | 98       |
| 16) Acetone                  | 3.872          | 43   | 55971      | 49.867   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.110          | 76   | 155402     | 10.705   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.390          | 43   | 21794      | 8.803    | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 100086     | 9.126    | ug/l   | 92       |
| 20) Methylene Chloride       | 4.622          | 84   | 56341      | 10.398   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 54511      | 10.222   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.018          | 45   | 123533     | 9.630    | ug/l # | 90       |
| 23) Vinyl Acetate            | 5.963          | 43   | 311609     | 45.522   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 86555      | 10.129   | ug/l   | 97       |
| 25) 2-Butanone               | 6.896          | 43   | 59816      | 46.094   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 80230      | 10.207   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 61638      | 10.120   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.250          | 49   | 34809      | 10.638   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.274          | 42   | 31053      | 44.932   | ug/l   | 96       |
| 30) Chloroform               | 7.420          | 83   | 98898      | 10.373   | ug/l   | 98       |
| 31) Cyclohexane              | 7.707          | 56   | 76145      | 10.232   | ug/l # | 89       |
| 32) 1,1,1-Trichloroethane    | 7.615          | 97   | 88141      | 10.343   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 66838      | 9.958    | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.987          | 43   | 24198      | 9.313    | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 78995      | 9.989    | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.109          | 83   | 79613      | 9.283    | ug/l   | 95       |
| 40) Benzene                  | 8.079          | 78   | 212456     | 10.042   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023662.D  
 Acq On : 04 Nov 2025 09:42  
 Operator : SY/MD  
 Sample : VSTDICC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.225  | 41   | 12643m   | 9.122   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 53223    | 9.943   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 42964    | 8.800   | ug/l   | 97       |
| 44) Trichloroethene           | 8.865  | 130  | 61596    | 10.136  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.139  | 63   | 45808    | 9.810   | ug/l   | 95       |
| 46) Dibromomethane            | 9.231  | 93   | 27595    | 9.538   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 71048    | 9.740   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.225  | 41   | 18849    | 8.172   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 5062     | 170.965 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 109221   | 42.067  | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 130648   | 9.672   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.395 | 75   | 56121    | 9.093   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 69773    | 9.436   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 37044    | 9.581   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 32716    | 7.680   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.718 | 76   | 58301    | 9.506   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 78241    | 40.025  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.761 | 43   | 79804    | 42.130  | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.914 | 129  | 50465    | 9.499   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.017 | 107  | 33380    | 9.199   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.645 | 164  | 75769    | 10.541  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 151288   | 10.063  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 52459    | 9.868   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.517 | 91   | 229438   | 9.430   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 185401   | 19.072  | ug/l   | 100      |
| 69) o-Xylene                  | 11.956 | 106  | 82846    | 9.219   | ug/l   | 99       |
| 70) Styrene                   | 11.968 | 104  | 135208   | 9.119   | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 28921    | 9.315   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 217972   | 9.579   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 32719    | 8.492   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 33622    | 9.251   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.553 | 75   | 30827m   | 11.195  | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 58175    | 9.855   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.596 | 91   | 257281   | 9.612   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.675 | 91   | 152691   | 9.830   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.736 | 105  | 177222   | 9.585   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 11473    | 9.416   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 158206   | 9.876   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 158294   | 9.400   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.041 | 105  | 177023   | 9.667   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.175 | 105  | 236332   | 9.730   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.291 | 119  | 192560   | 9.365   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 115903   | 9.976   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.364 | 146  | 114652   | 10.046  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.614 | 91   | 166099   | 9.290   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.876 | 117  | 44630    | 10.101  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 99858    | 9.974   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 5202     | 9.296   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 50808    | 8.872   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 37521    | 9.999   | ug/l   | 99       |
| 95) Naphthalene               | 15.144 | 128  | 64530    | 11.029  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.327 | 180  | 41611    | 8.697   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023662.D  
Acq On : 04 Nov 2025 09:42  
Operator : SY/MD  
Sample : VSTDICC010  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:26:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

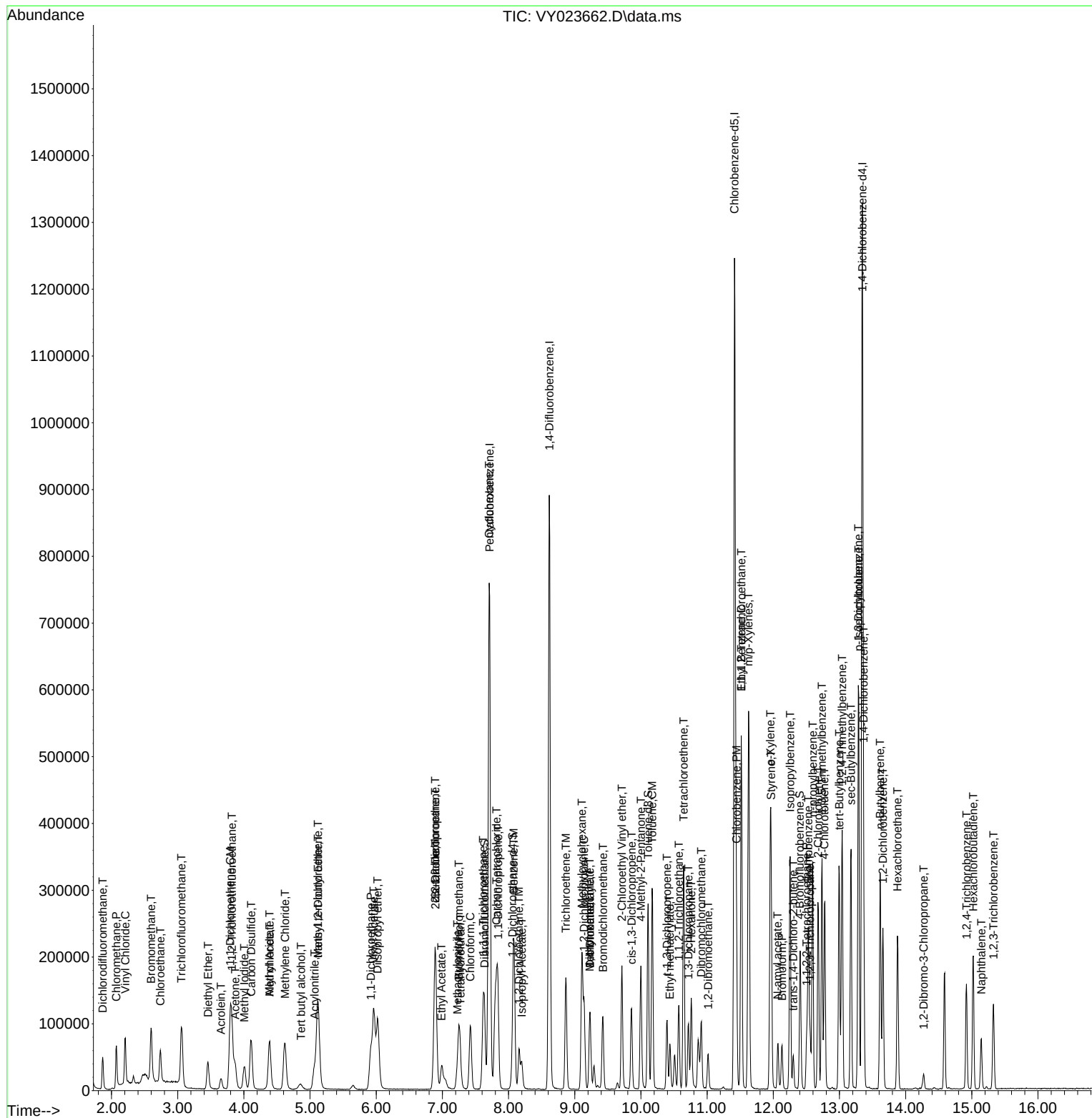
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

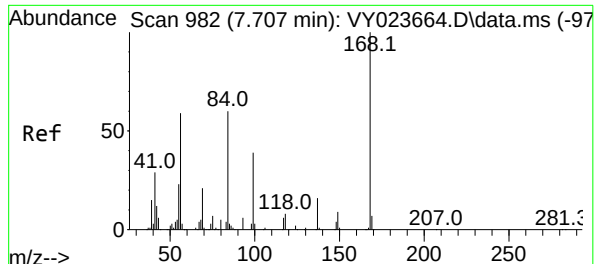
**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VSTDICC010

## Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

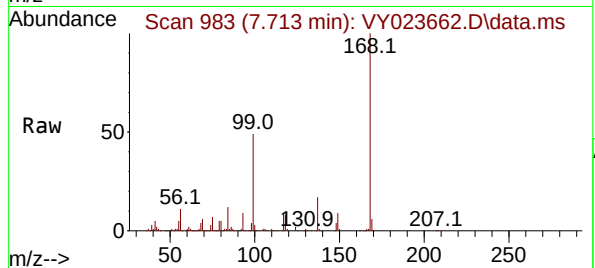






#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

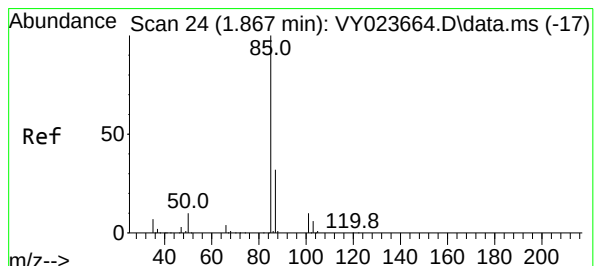
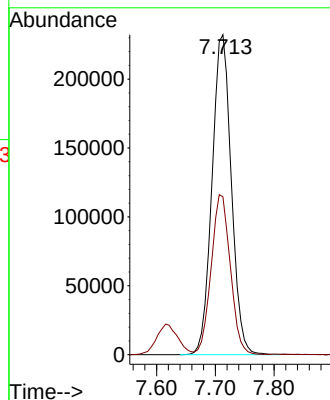
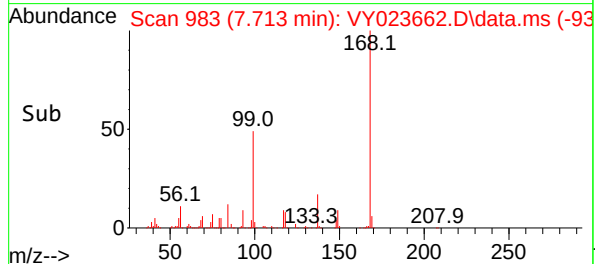
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion:168 Resp: 52935  
Ion Ratio Lower Upper  
168 100  
99 49.3 41.0 61.4

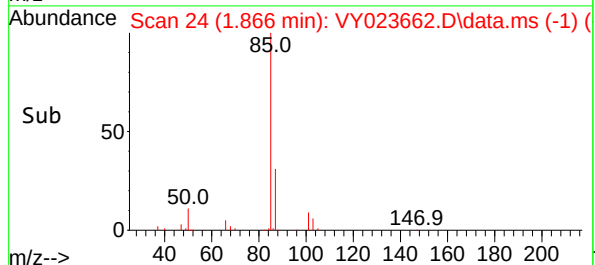
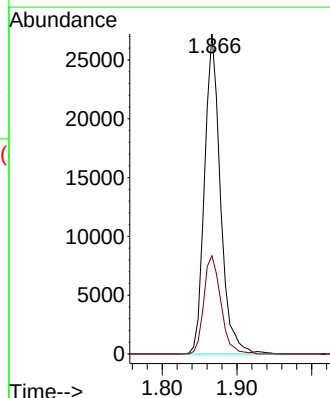
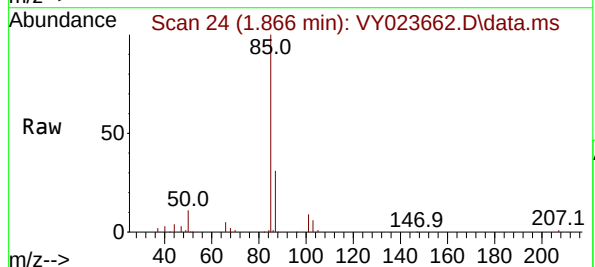
Manual Integrations  
APPROVED

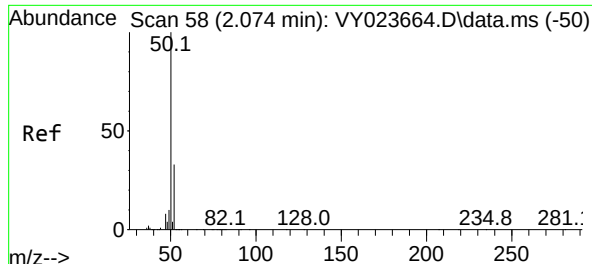
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 11.565 ug/l  
RT: 1.866 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

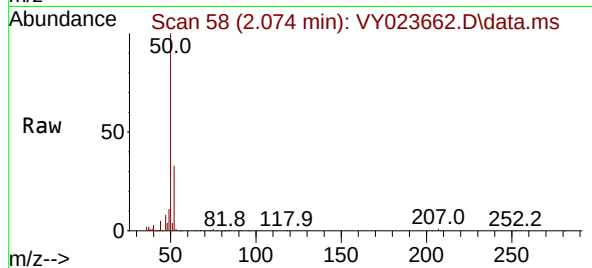
Tgt Ion: 85 Resp: 40187  
Ion Ratio Lower Upper  
85 100  
87 30.7 16.2 48.6





#3  
Chloromethane  
Concen: 11.110 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

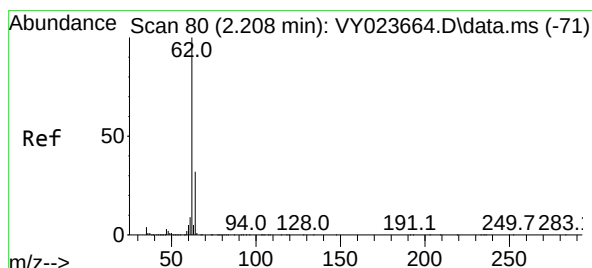
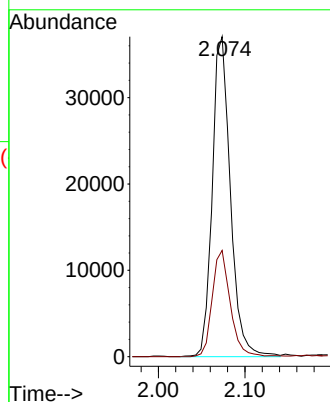
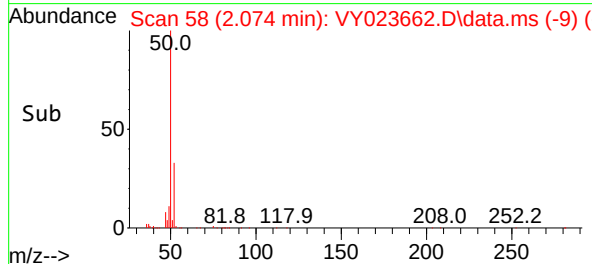
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion: 50 Resp: 54024  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.5 39.7

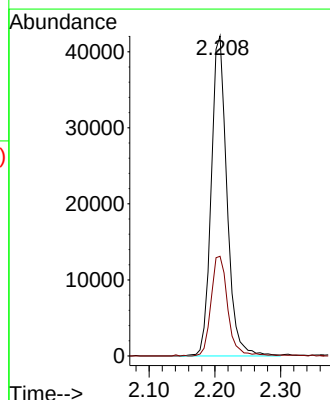
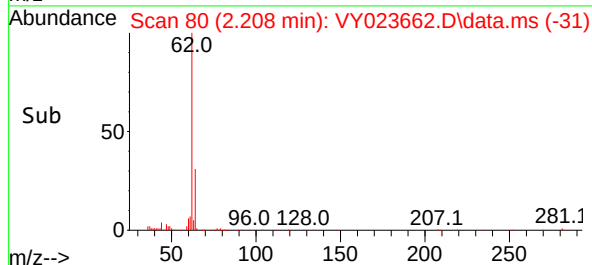
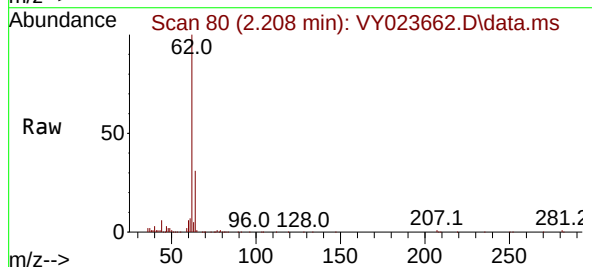
Manual Integrations  
APPROVED

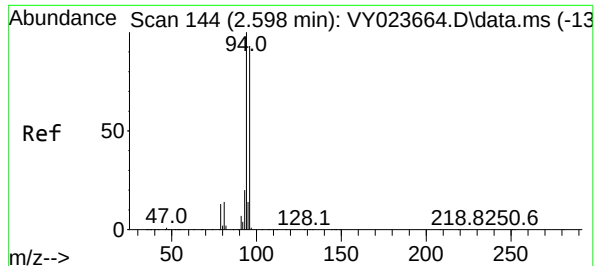
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#4  
Vinyl Chloride  
Concen: 11.069 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 62 Resp: 70038  
Ion Ratio Lower Upper  
62 100  
64 31.2 25.7 38.5





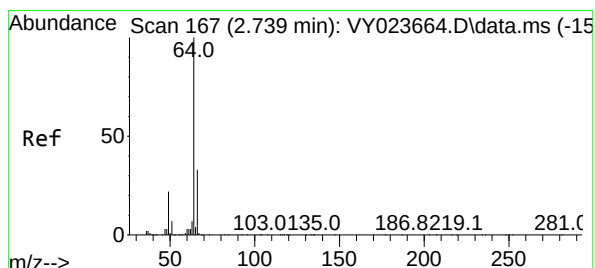
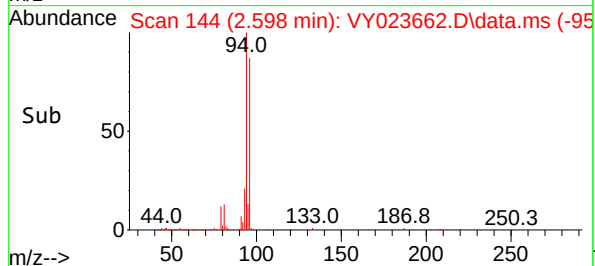
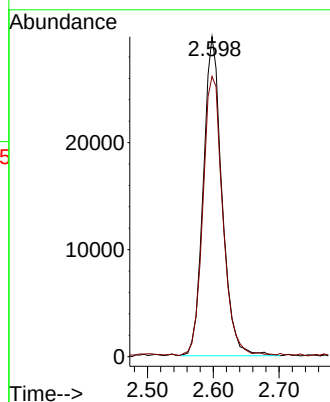
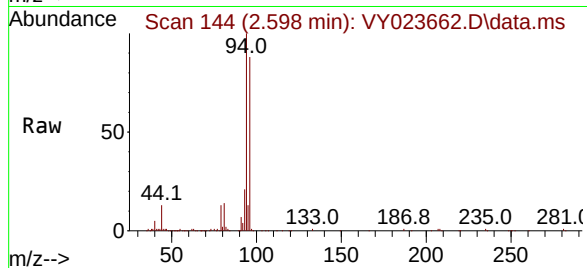
#5  
Bromomethane  
Concen: 11.043 ug/l  
RT: 2.598 min Scan# 144  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010

Tgt Ion: 94 Resp: 58773  
Ion Ratio Lower Upper  
94 100  
96 87.4 74.4 111.6

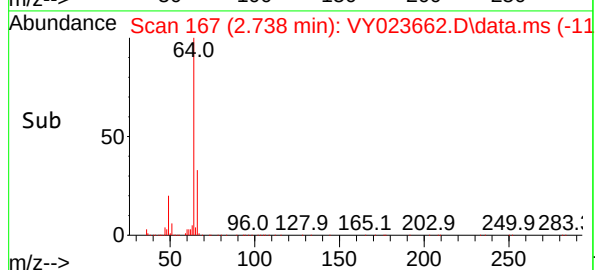
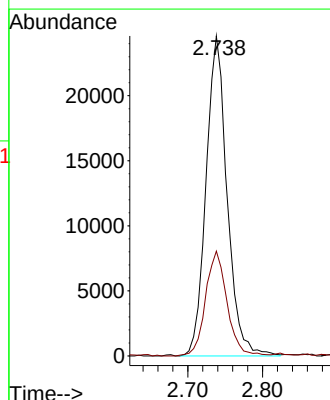
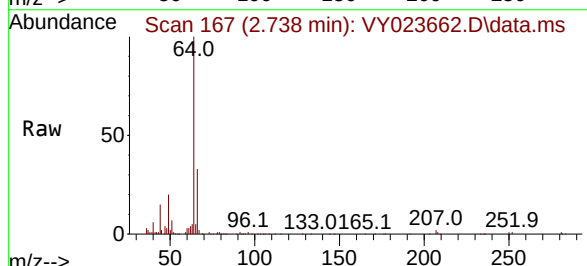
Manual Integrations  
APPROVED

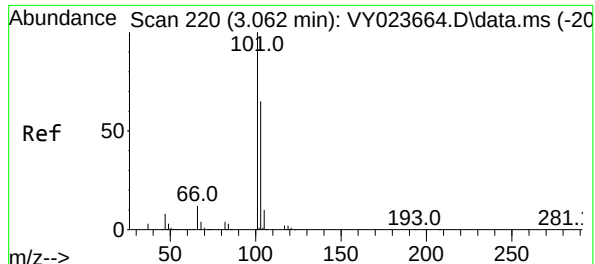
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#6  
Chloroethane  
Concen: 11.006 ug/l  
RT: 2.738 min Scan# 167  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

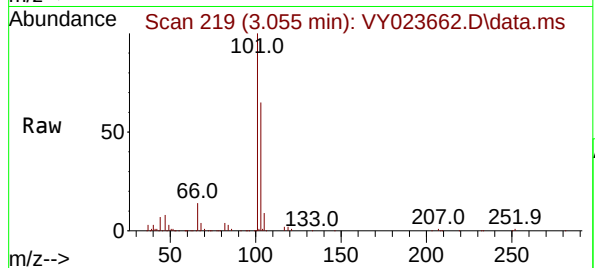
Tgt Ion: 64 Resp: 48132  
Ion Ratio Lower Upper  
64 100  
66 32.5 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 10.791 ug/l  
RT: 3.055 min Scan# 219  
Delta R.T. -0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

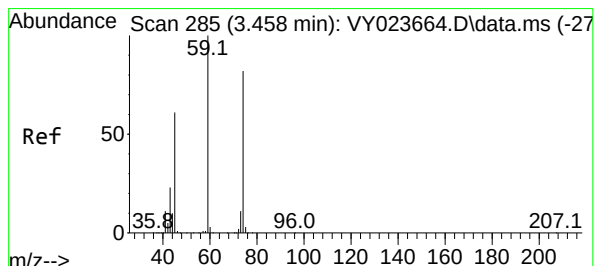
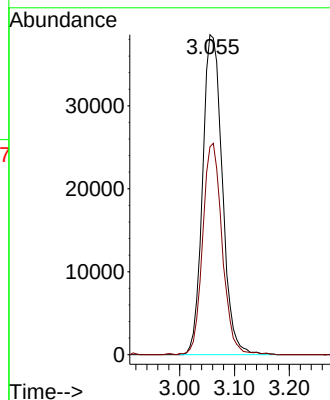
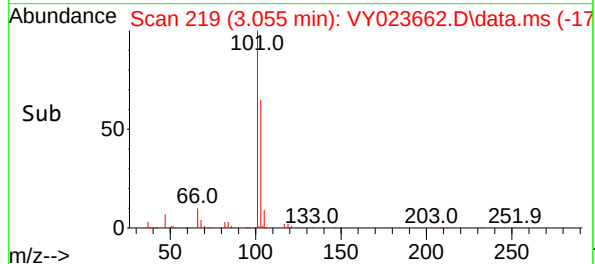
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion:101 Resp: 9616  
Ion Ratio Lower Upper  
101 100  
103 65.0 52.1 78.1

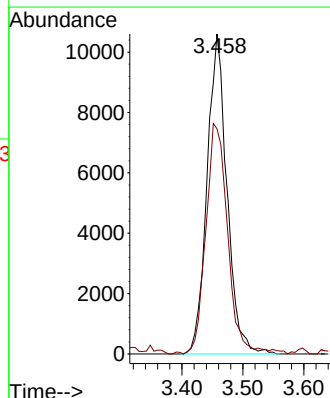
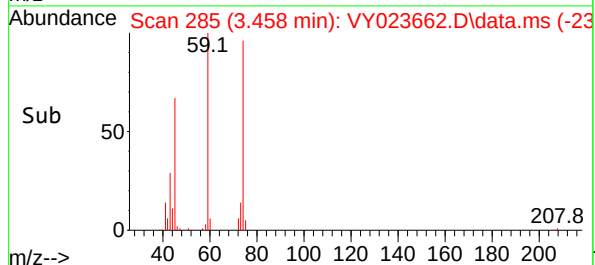
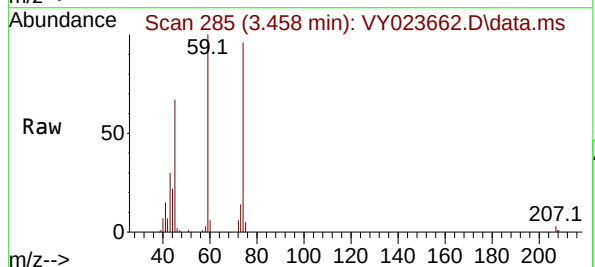
Manual Integrations  
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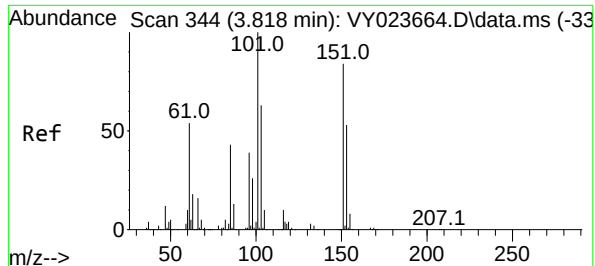
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#8  
Diethyl Ether  
Concen: 10.088 ug/l  
RT: 3.458 min Scan# 285  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 74 Resp: 24107  
Ion Ratio Lower Upper  
74 100  
45 79.2 40.6 121.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.904 ug/l

RT: 3.817 min Scan# 344

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion:101 Resp: 5353

Ion Ratio Lower Upper

101 100

85 42.5 34.4 51.6

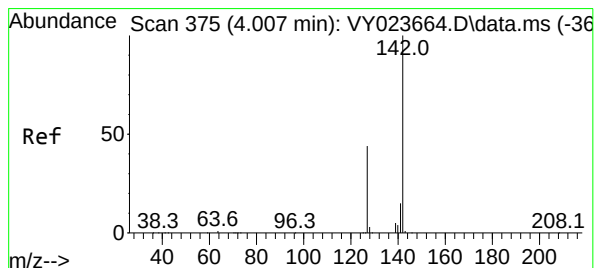
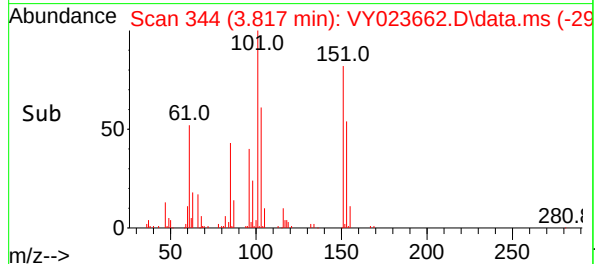
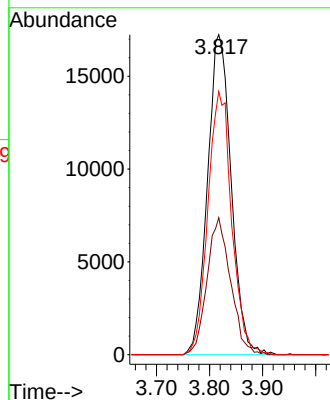
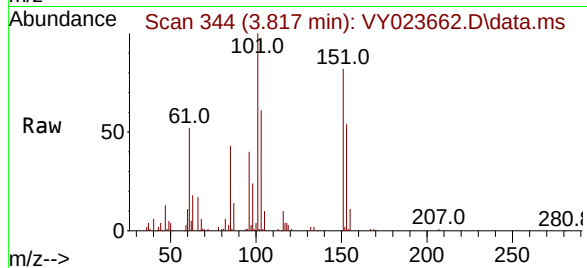
151 82.7 65.6 98.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#10

Methyl Iodide

Concen: 9.974 ug/l

RT: 4.006 min Scan# 375

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

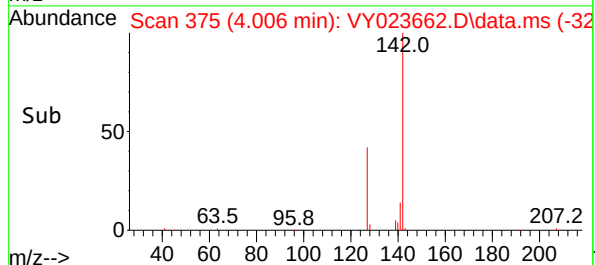
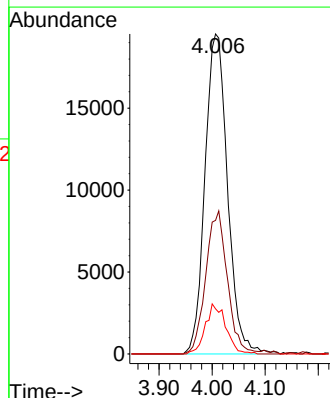
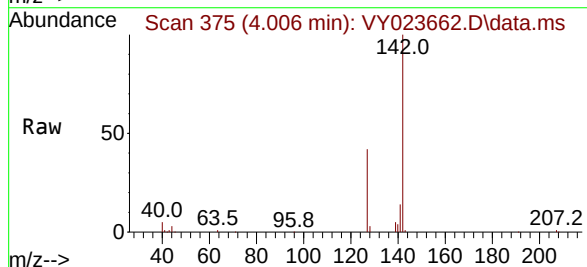
Tgt Ion:142 Resp: 57829

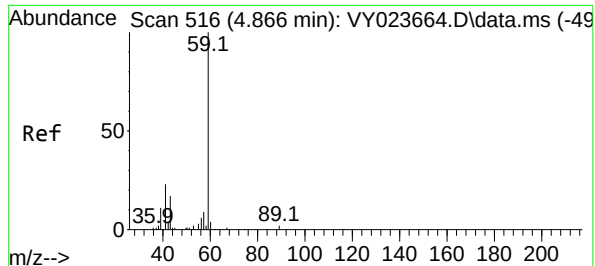
Ion Ratio Lower Upper

142 100

127 42.8 34.6 51.8

141 14.2 11.6 17.4





#11

Tert butyl alcohol

Concen: 48.194 ug/l

RT: 4.866 min Scan# 516

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 14032

Ion Ratio Lower Upper

59 100

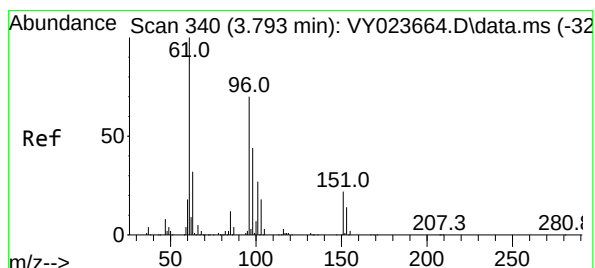
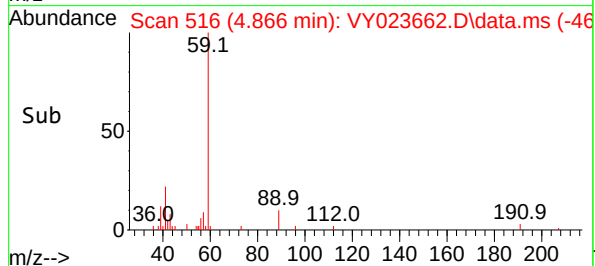
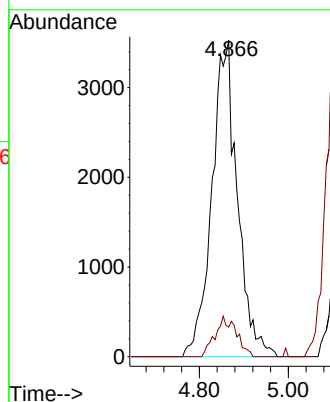
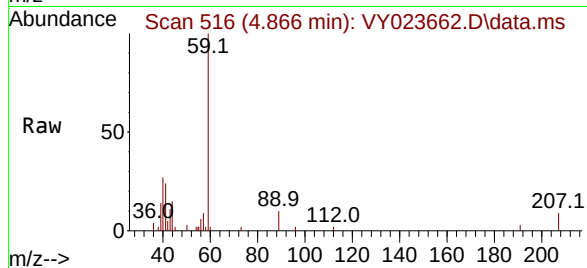
57 10.6 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 10.335 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

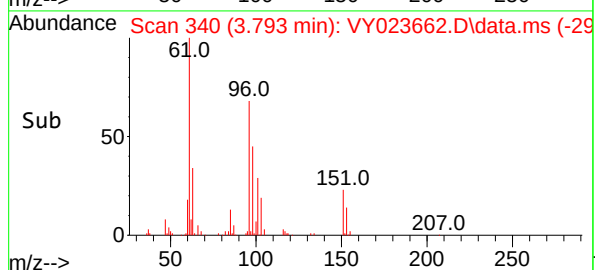
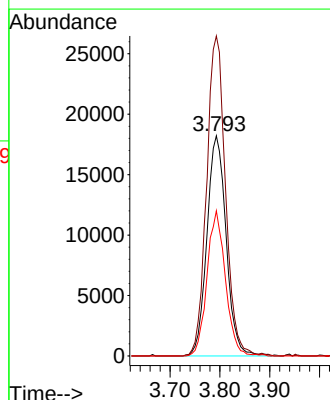
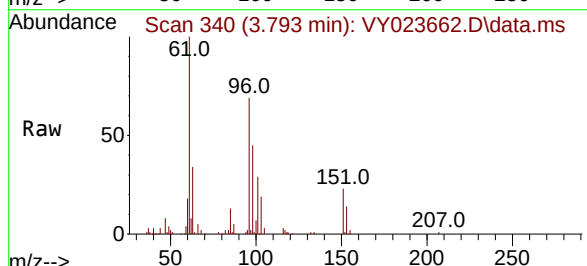
Tgt Ion: 96 Resp: 48878

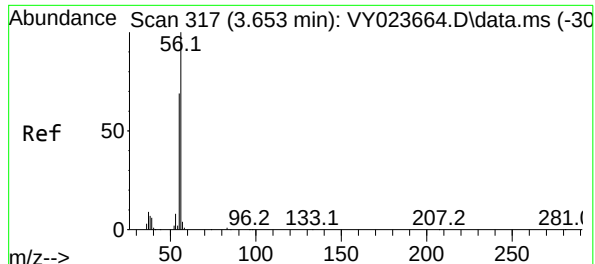
Ion Ratio Lower Upper

96 100

61 145.4 114.0 171.0

98 65.9 50.2 75.2





#13

Acrolein

Concen: 50.776 ug/l

RT: 3.653 min Scan# 317

Delta R.T. -0.000 min

Lab File: VY023662.D

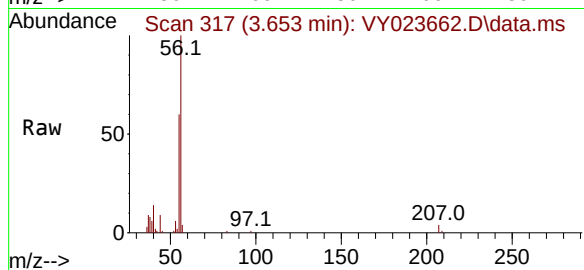
Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC010



Tgt Ion: 56 Resp: 1900

Ion Ratio Lower Upper

56 100

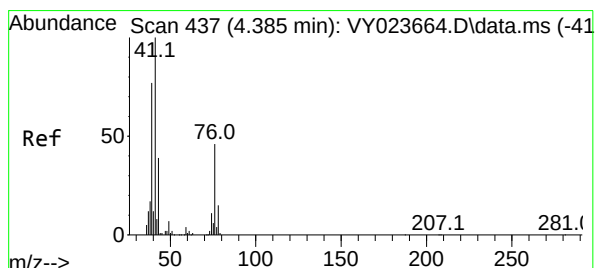
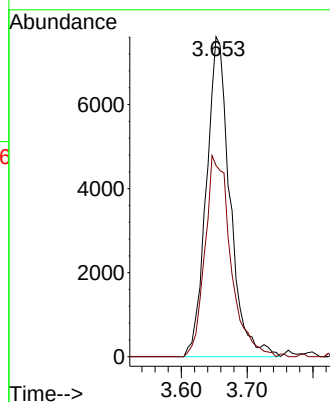
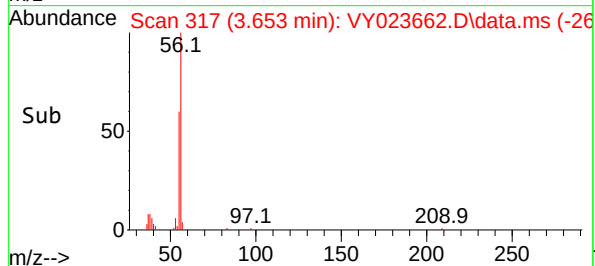
55 68.4 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 9.830 ug/l

RT: 4.390 min Scan# 438

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

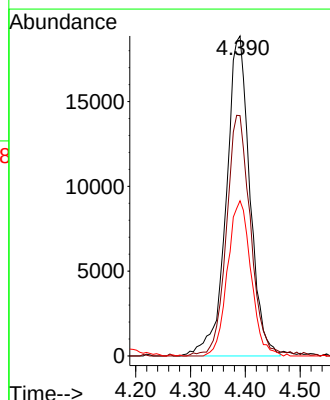
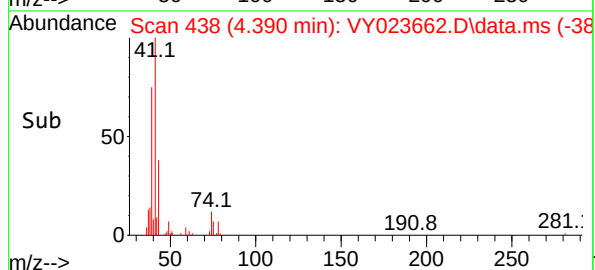
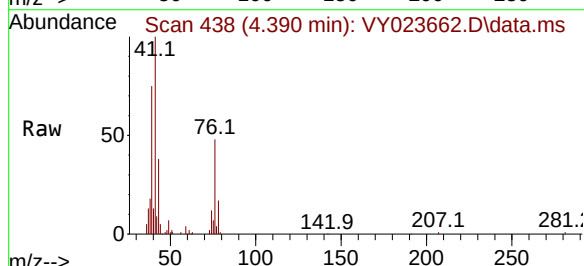
Tgt Ion: 41 Resp: 56587

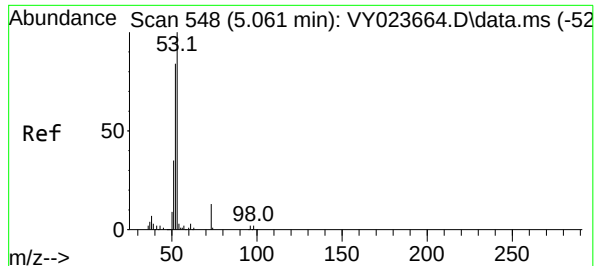
Ion Ratio Lower Upper

41 100

39 76.9 60.4 90.6

76 48.1 38.0 57.0





#15

Acrylonitrile

Concen: 46.026 ug/l

RT: 5.067 min Scan# 54

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC010

Tgt Ion: 53 Resp: 4203

Ion Ratio Lower Upper

53 100

52 79.0 64.9 97.3

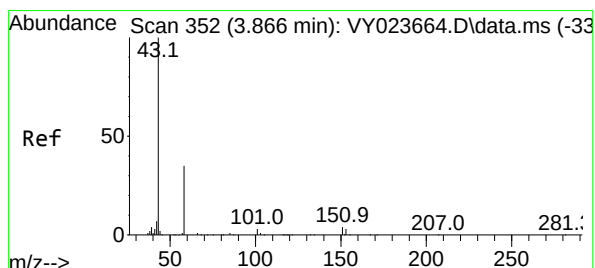
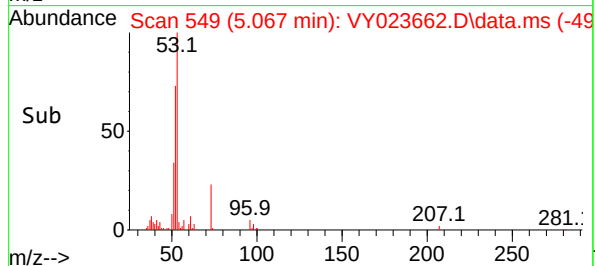
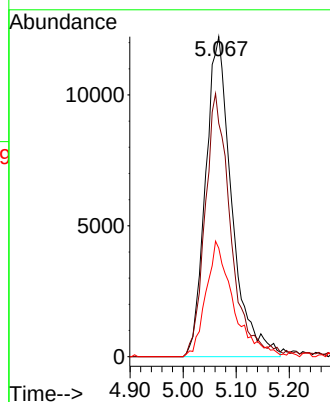
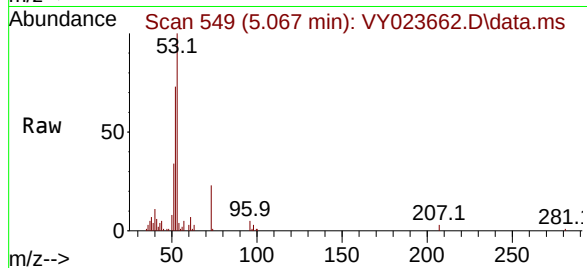
51 37.8 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 49.867 ug/l

RT: 3.872 min Scan# 353

Delta R.T. 0.006 min

Lab File: VY023662.D

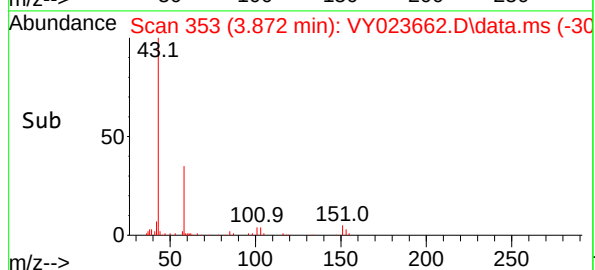
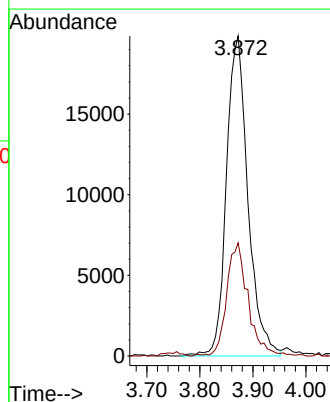
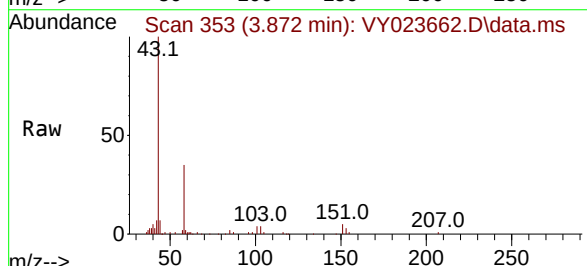
Acq: 04 Nov 2025 09:42

Tgt Ion: 43 Resp: 55971

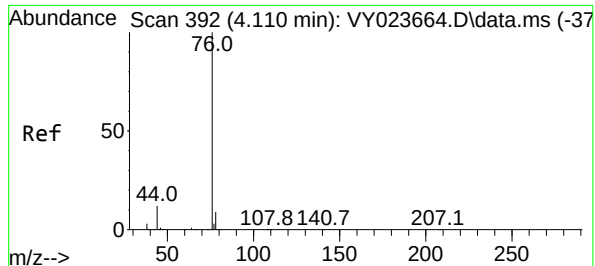
Ion Ratio Lower Upper

43 100

58 34.7 28.2 42.4

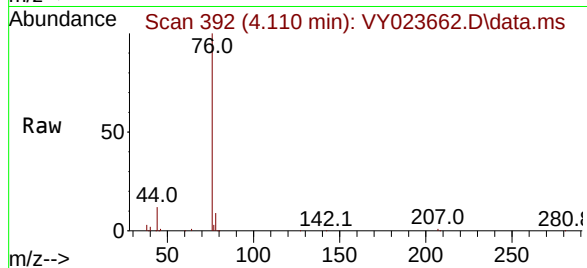






#17  
Carbon Disulfide  
Concen: 10.705 ug/l  
RT: 4.110 min Scan# 392  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

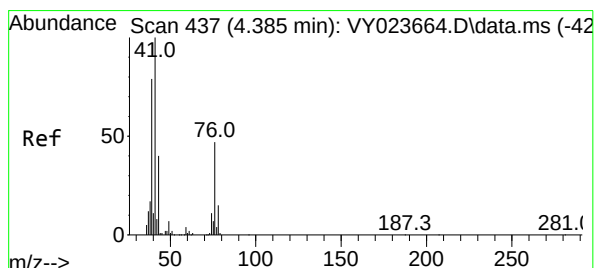
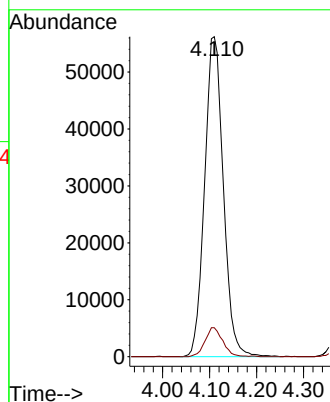
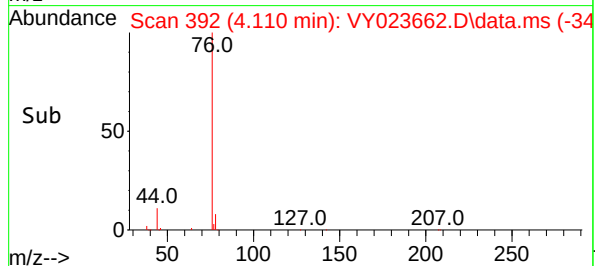
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion: 76 Resp: 15540  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7

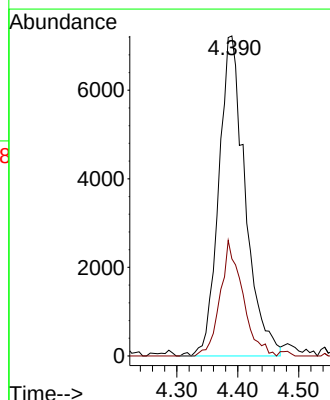
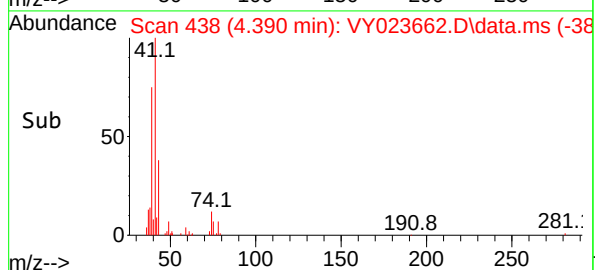
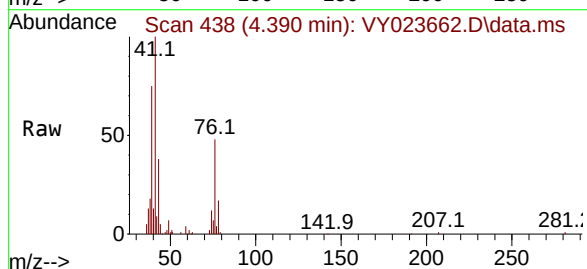
Manual Integrations  
APPROVED

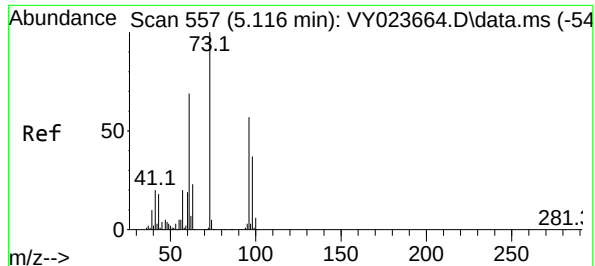
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#18  
Methyl Acetate  
Concen: 8.803 ug/l  
RT: 4.390 min Scan# 438  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 43 Resp: 21794  
Ion Ratio Lower Upper  
43 100  
74 30.7 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 9.126 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 10008

Ion Ratio Lower Upper

73 100

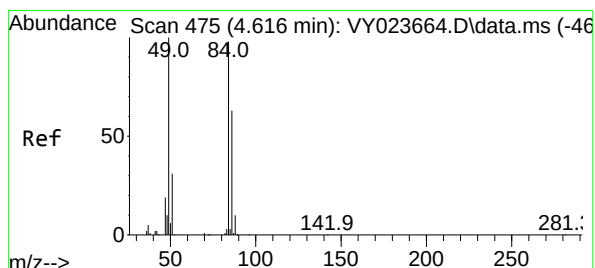
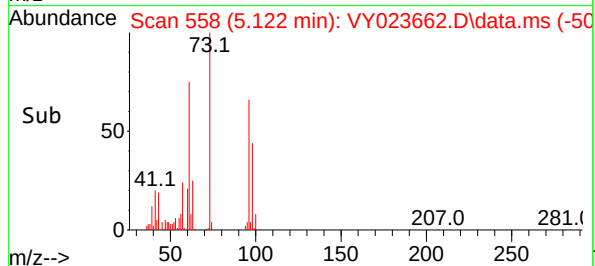
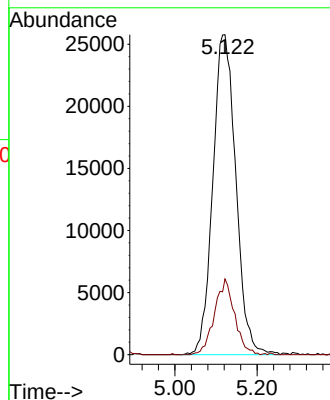
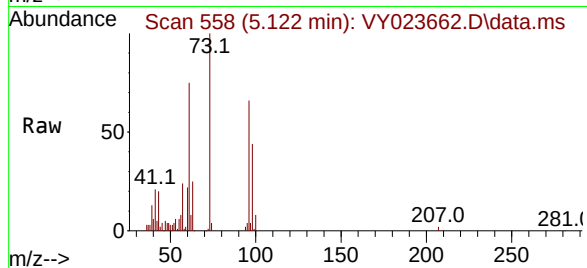
57 23.6 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 10.398 ug/l

RT: 4.622 min Scan# 476

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Tgt Ion: 84 Resp: 56341

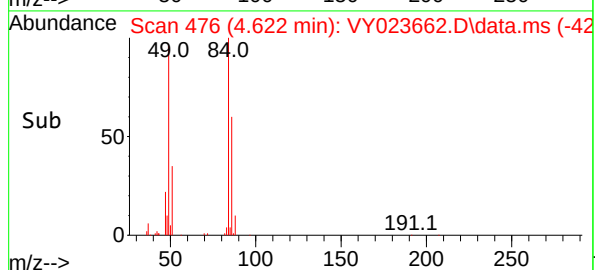
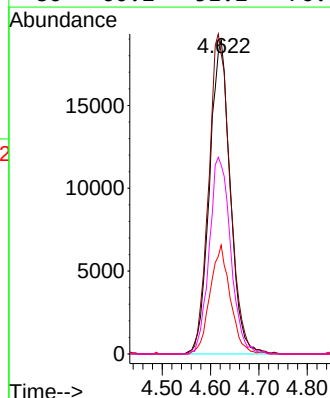
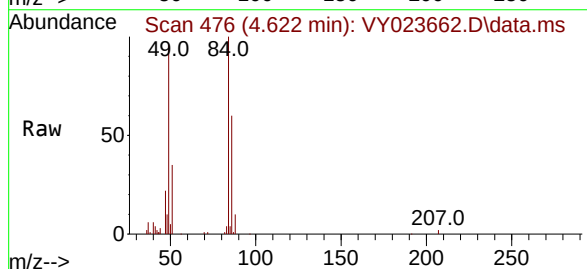
Ion Ratio Lower Upper

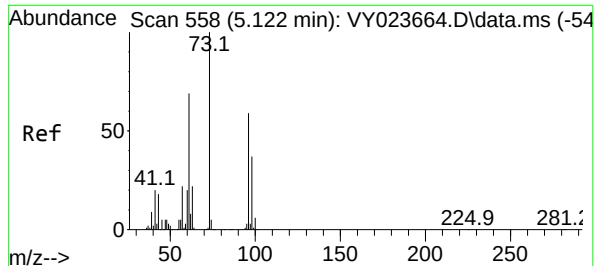
84 100

49 95.8 81.5 122.3

51 34.7 25.5 38.3

86 60.2 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 10.222 ug/l

RT: 5.122 min Scan# 558

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 96 Resp: 5451

Ion Ratio Lower Upper

96 100

61 113.8 93.3 139.9

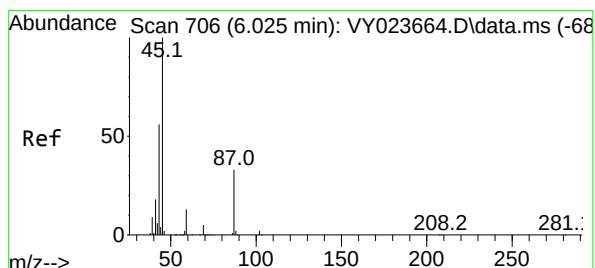
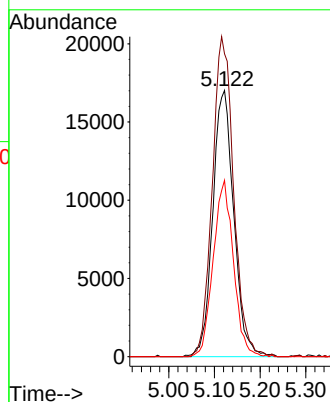
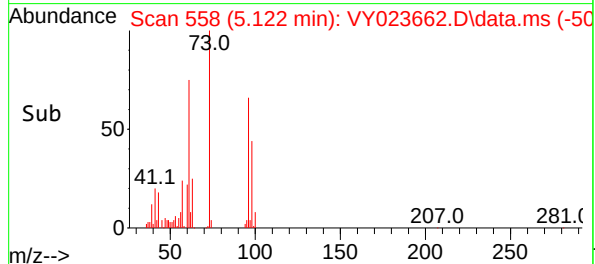
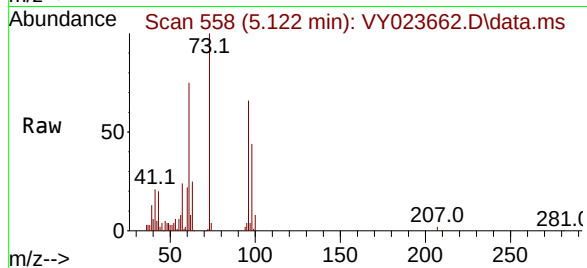
98 66.2 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 9.630 ug/l

RT: 6.018 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Tgt Ion: 45 Resp: 123533

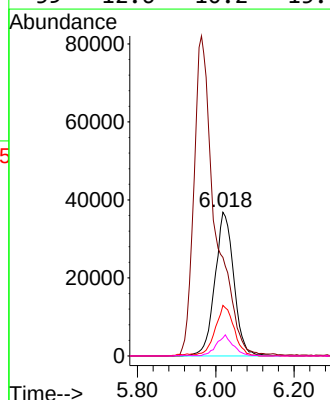
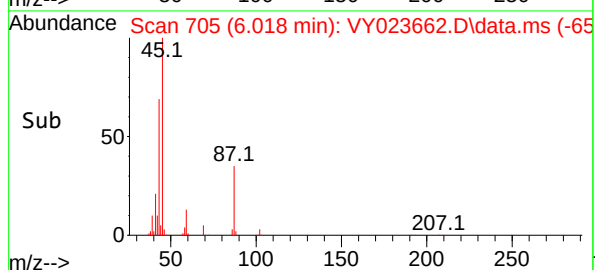
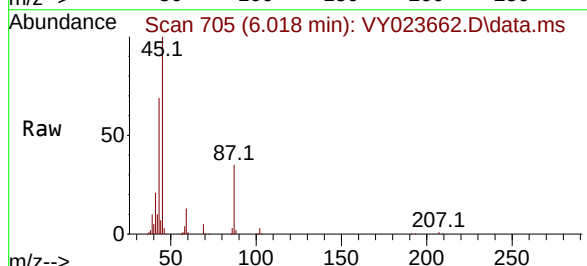
Ion Ratio Lower Upper

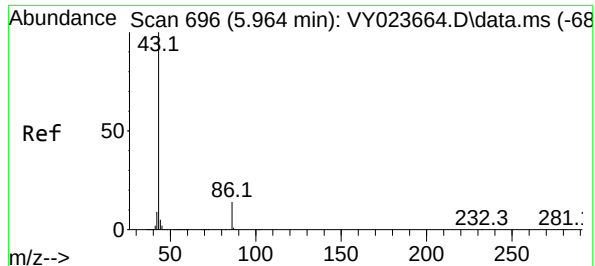
45 100

43 67.8 44.7 67.1#

87 35.2 27.2 40.8

59 12.6 10.2 15.4





#23

Vinyl Acetate

Concen: 45.522 ug/l

RT: 5.963 min Scan# 64

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 311609

Ion Ratio Lower Upper

43 100

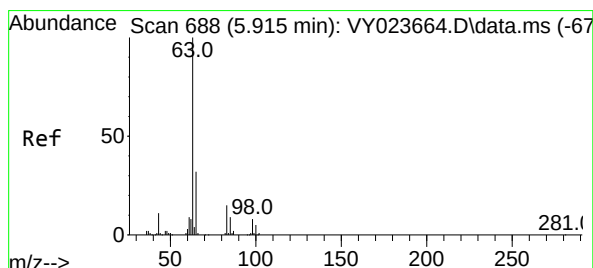
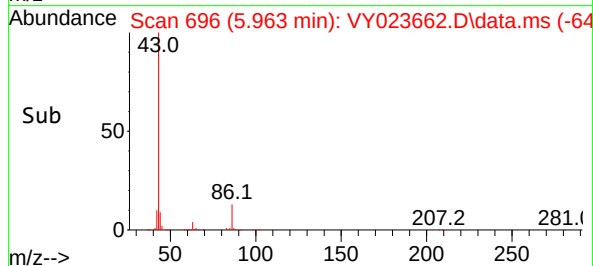
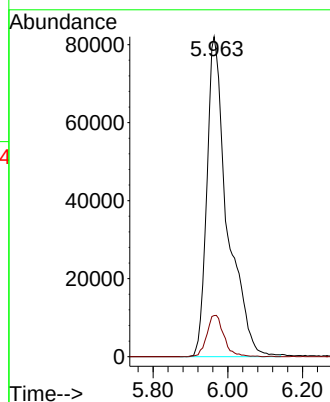
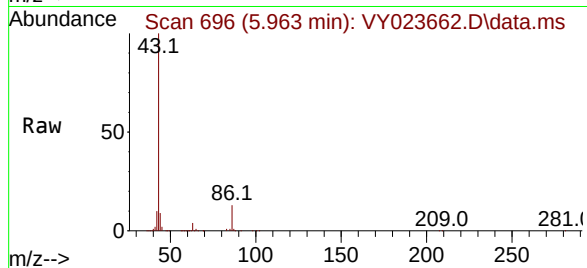
86 12.8 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 10.129 ug/l

RT: 5.921 min Scan# 689

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

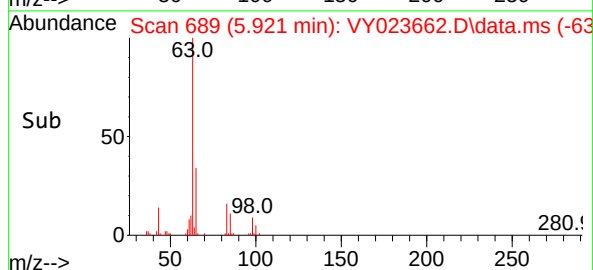
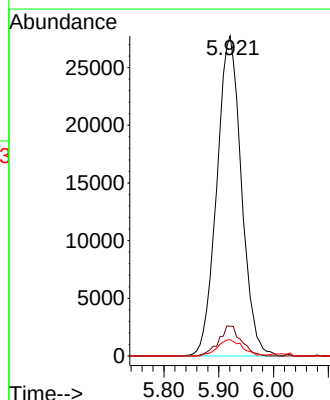
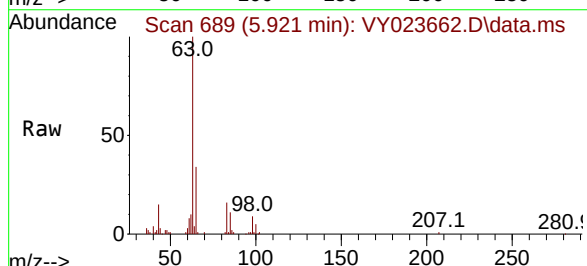
Tgt Ion: 63 Resp: 86555

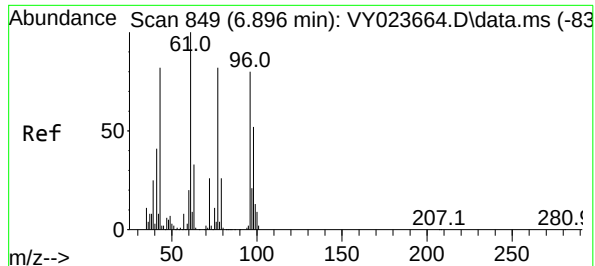
Ion Ratio Lower Upper

63 100

98 9.3 4.0 11.9

100 5.0 2.6 7.8





#25

2-Butanone

Concen: 46.094 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 59810

Ion Ratio Lower Upper

43 100

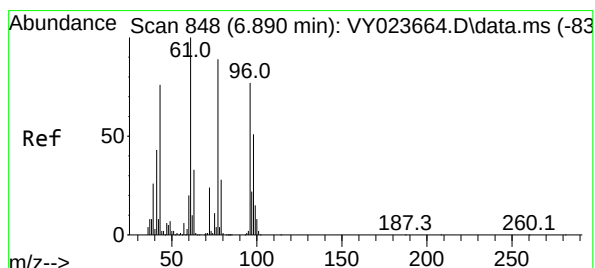
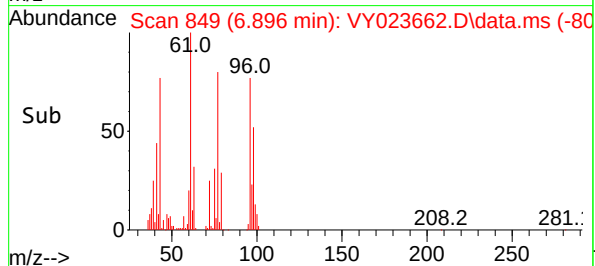
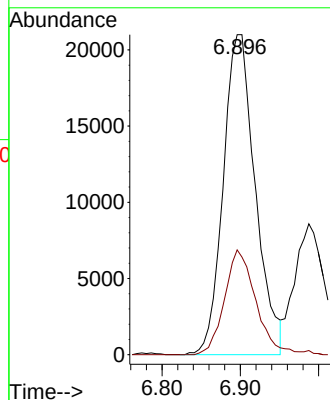
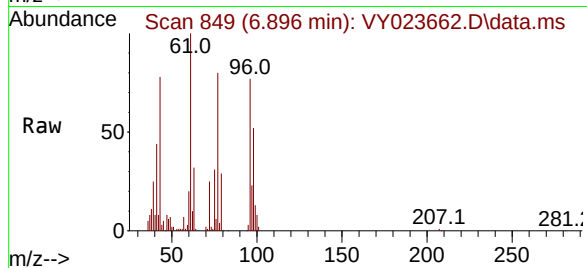
72 32.7 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 10.207 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY023662.D

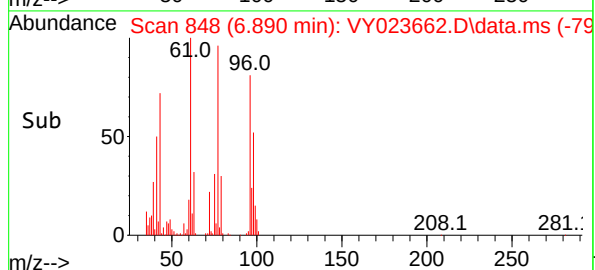
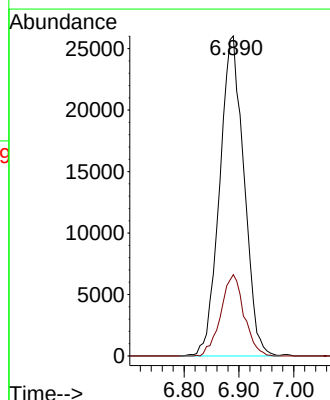
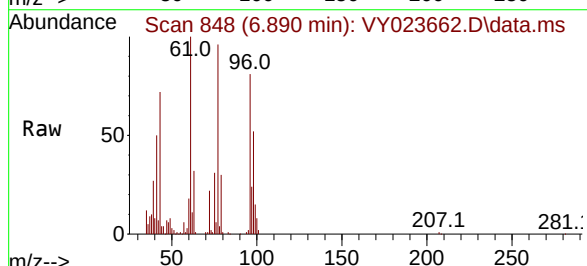
Acq: 04 Nov 2025 09:42

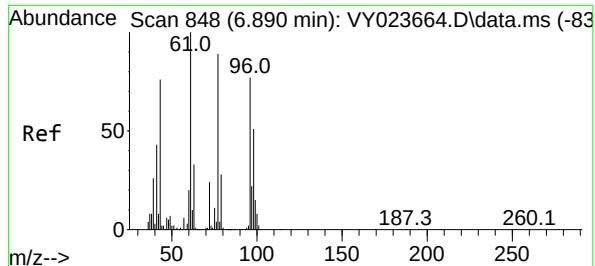
Tgt Ion: 77 Resp: 80230

Ion Ratio Lower Upper

77 100

97 24.3 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 10.120 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC010

Tgt Ion: 96 Resp: 61638

Ion Ratio Lower Upper

96 100

61 125.9 0.0 255.0

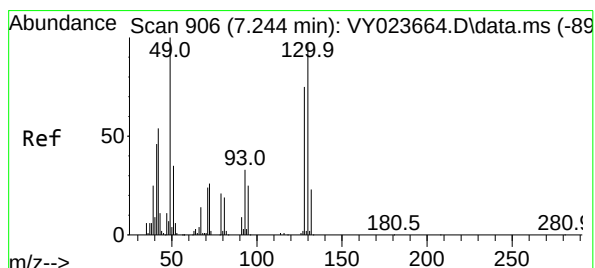
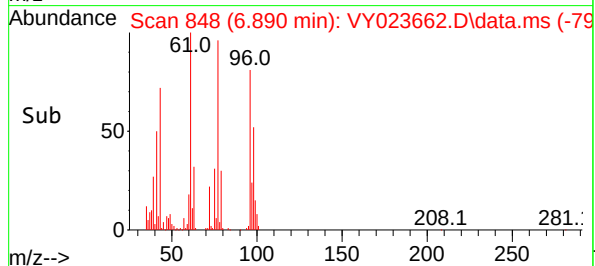
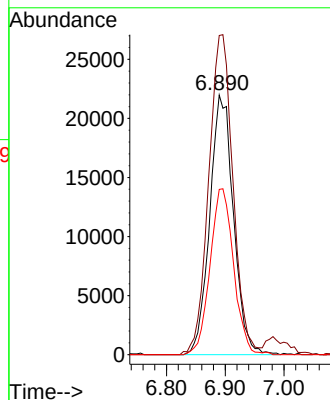
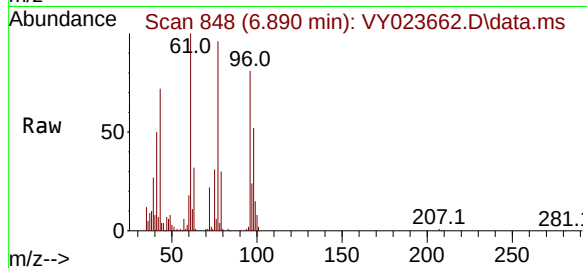
98 63.6 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 10.638 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

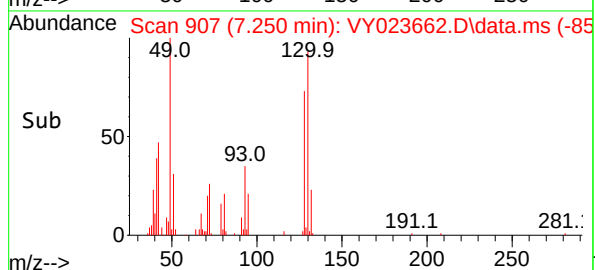
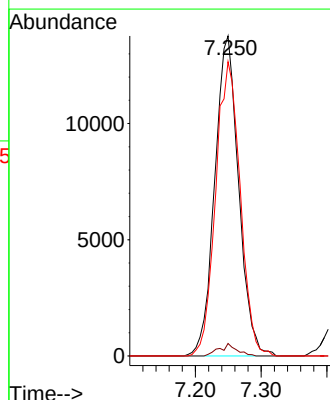
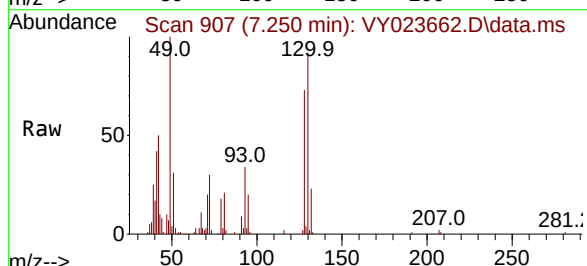
Tgt Ion: 49 Resp: 34809

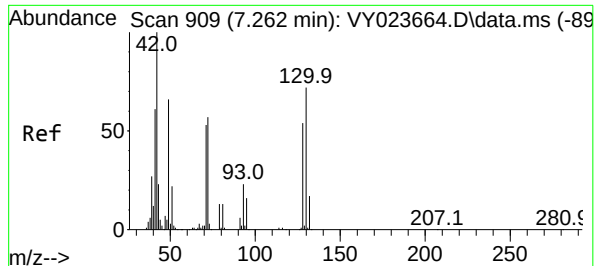
Ion Ratio Lower Upper

49 100

129 2.9 0.0 5.0

130 94.3 80.1 120.1





#29

Tetrahydrofuran

Concen: 44.932 ug/l

RT: 7.274 min Scan# 911

Delta R.T. 0.012 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

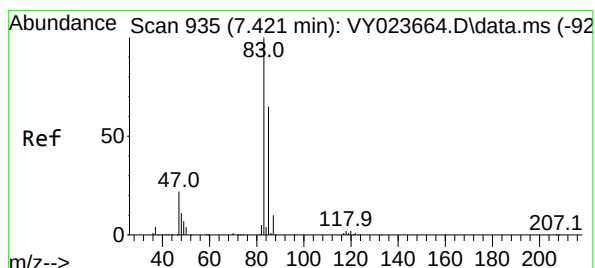
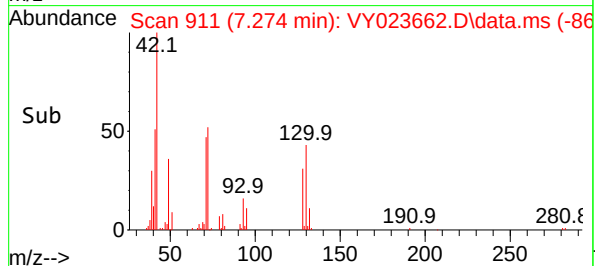
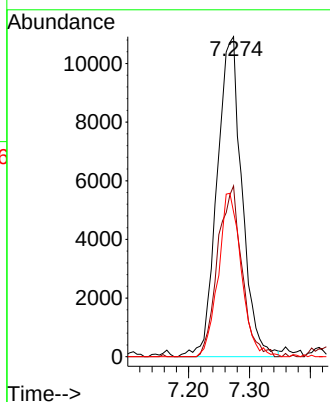
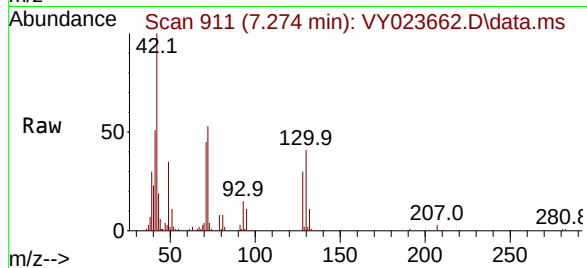
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 3105  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 51.7  | 43.4  | 65.2  |
| 71       | 47.3  | 40.7  | 61.1  |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 10.373 ug/l

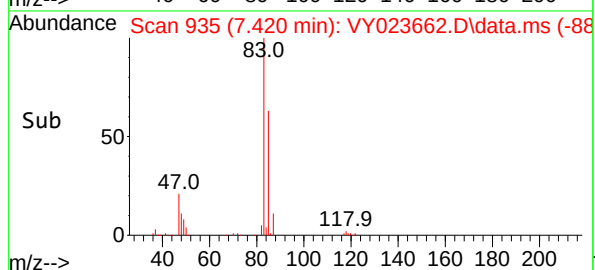
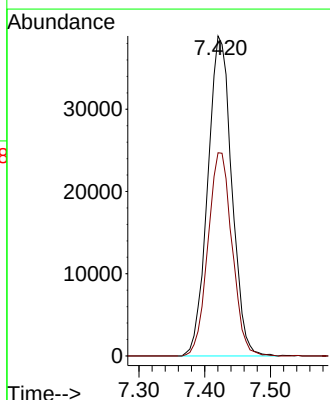
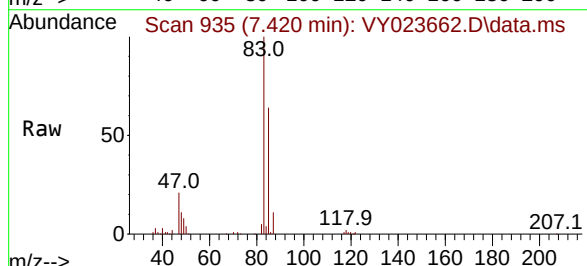
RT: 7.420 min Scan# 935

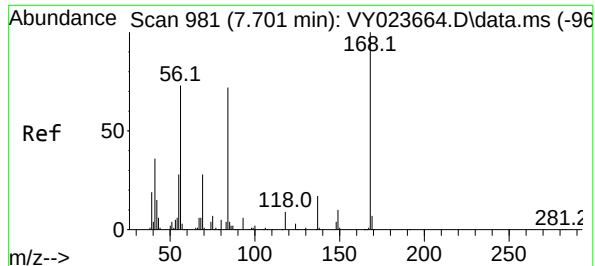
Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 98898 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.5  | 52.1  | 78.1  |





#31

Cyclohexane

Concen: 10.232 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 7614

Ion Ratio Lower Upper

56 100

69 50.5 30.5 45.7

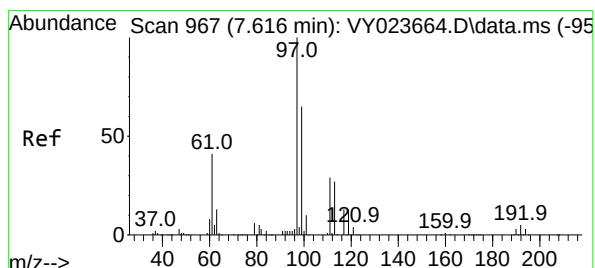
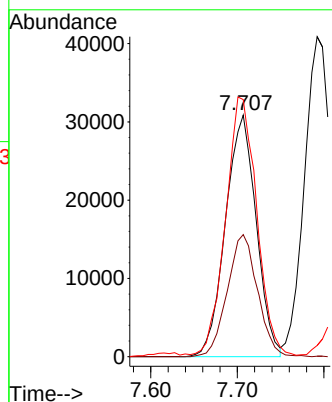
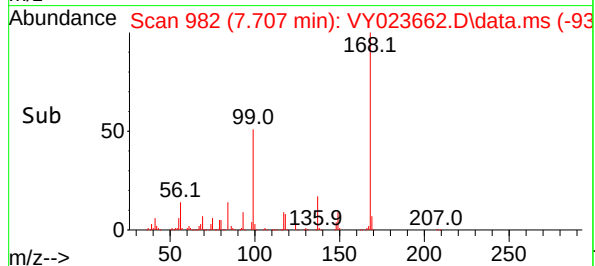
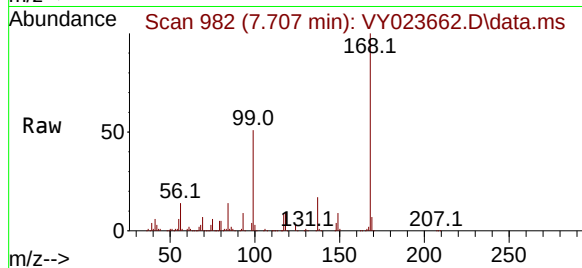
84 105.7 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 10.343 ug/l

RT: 7.615 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

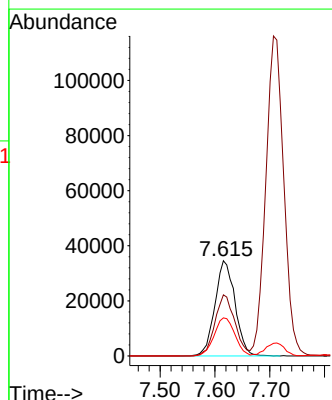
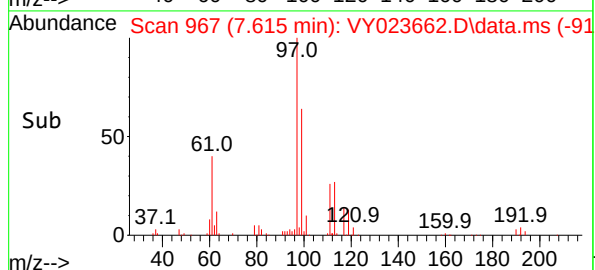
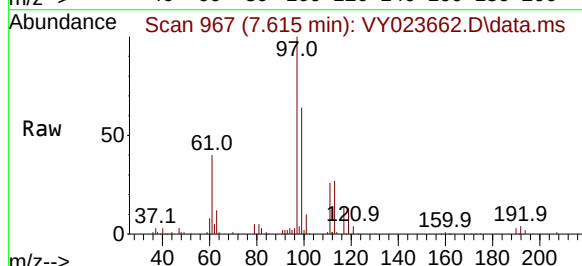
Tgt Ion: 97 Resp: 88141

Ion Ratio Lower Upper

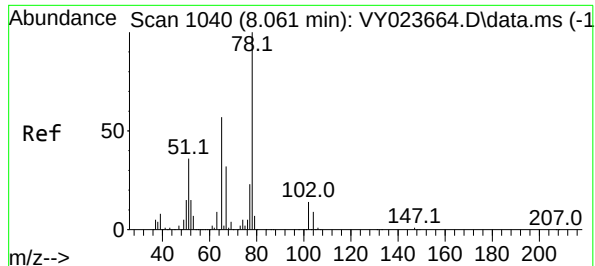
97 100

99 63.7 51.5 77.3

61 41.1 32.5 48.7







#33

1,2-Dichloroethane-d4

Concen: 9.970 ug/l

RT: 8.060 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 45020

Ion Ratio Lower Upper

65 100

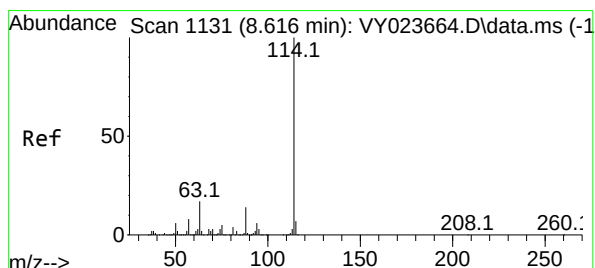
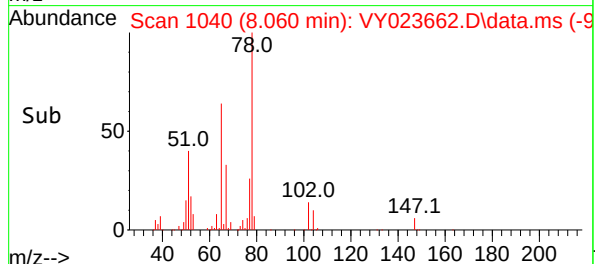
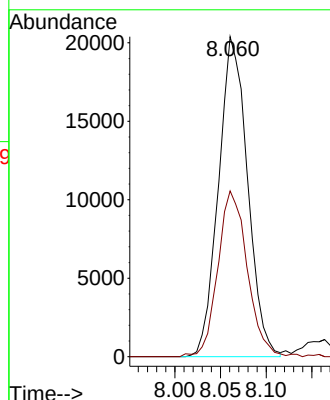
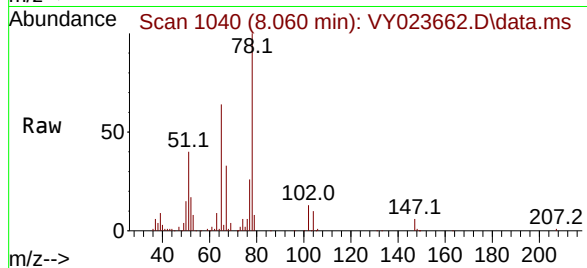
67 52.6 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

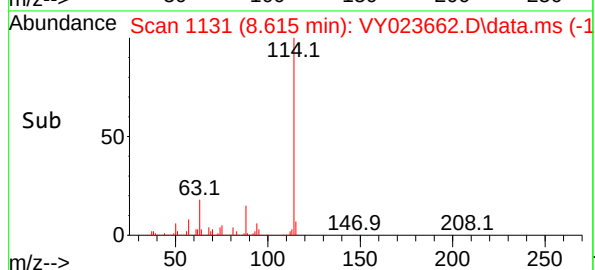
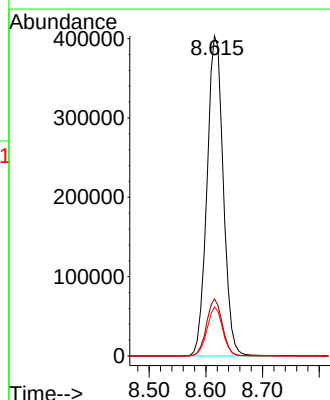
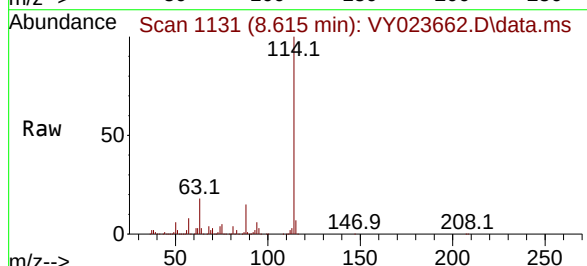
Tgt Ion:114 Resp: 803774

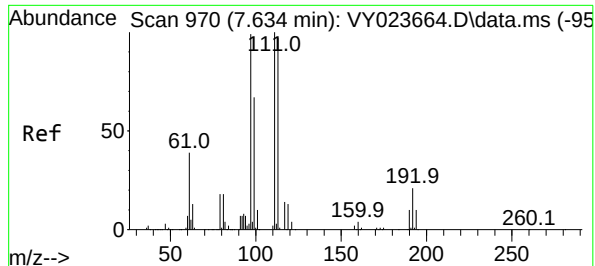
Ion Ratio Lower Upper

114 100

63 17.9 0.0 33.8

88 15.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 10.103 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion:113 Resp: 50749

Ion Ratio Lower Upper

113 100

111 99.2 82.2 123.4

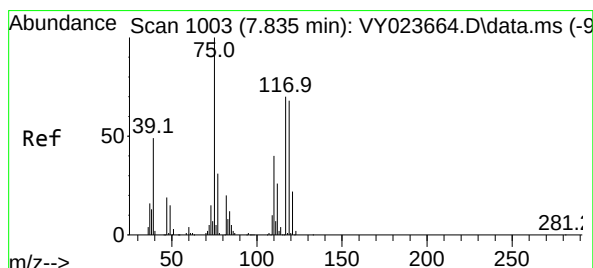
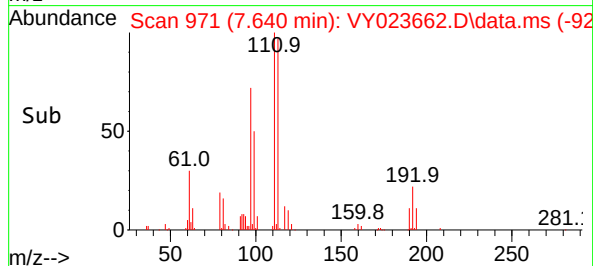
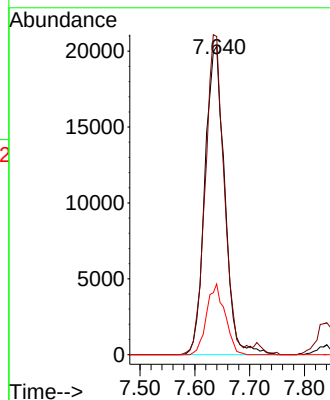
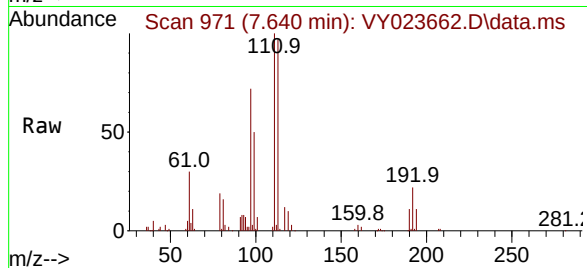
192 21.4 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 9.958 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

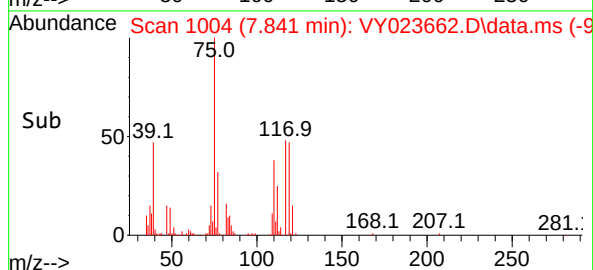
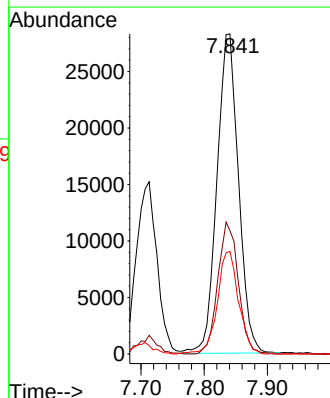
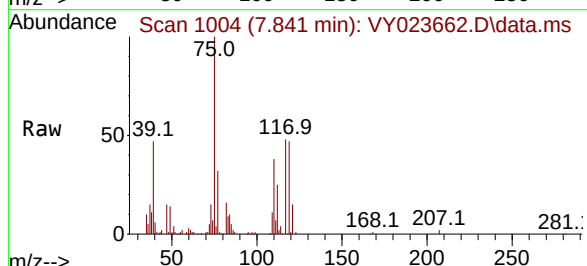
Tgt Ion: 75 Resp: 66838

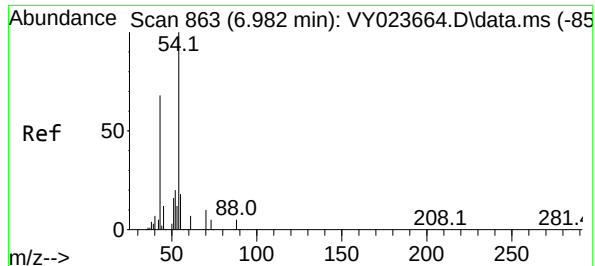
Ion Ratio Lower Upper

75 100

110 39.2 19.7 59.0

77 31.8 25.2 37.8





#37

Ethyl Acetate

Concen: 9.313 ug/l

RT: 6.987 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 24198

Ion Ratio Lower Upper

43 100

61 16.5 12.4 18.6

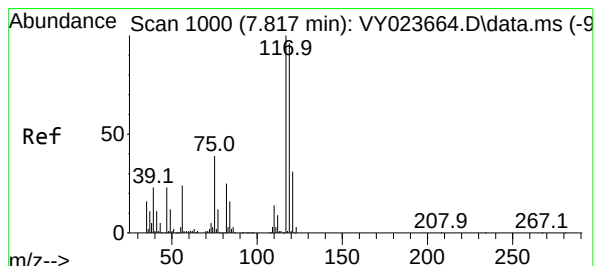
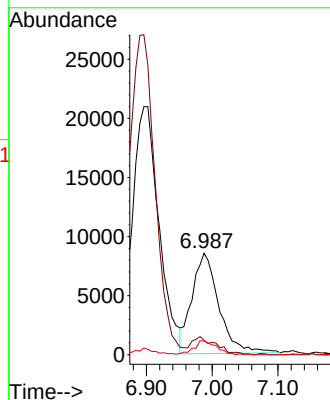
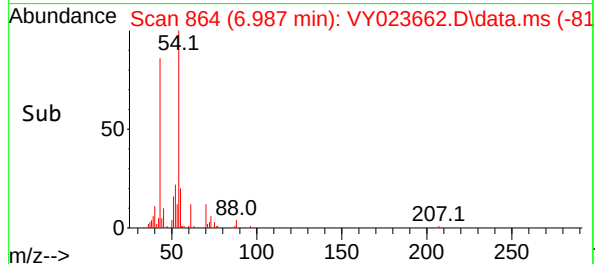
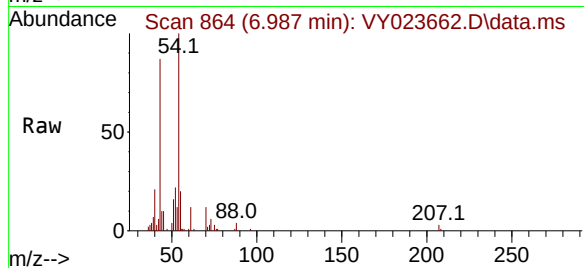
70 11.6 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 9.989 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

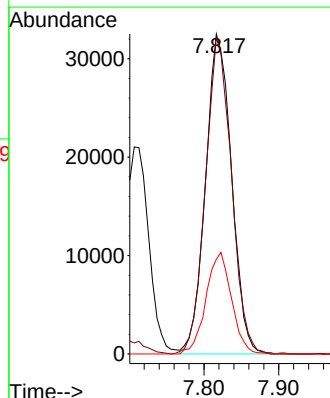
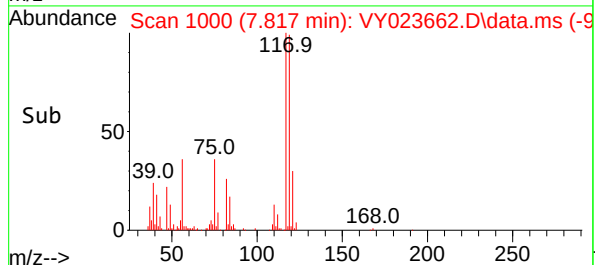
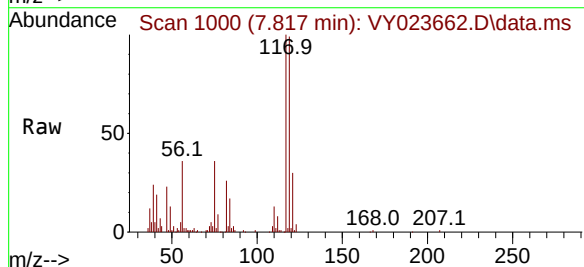
Tgt Ion:117 Resp: 78995

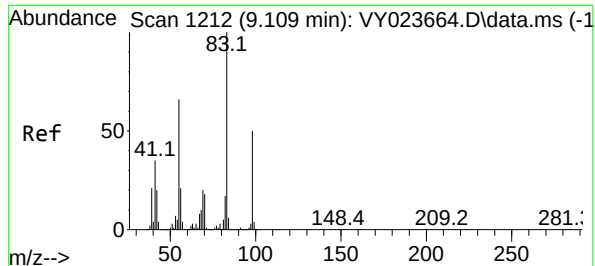
Ion Ratio Lower Upper

117 100

119 98.5 76.3 114.5

121 29.6 24.8 37.2





#39

Methylcyclohexane

Concen: 9.283 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 7961

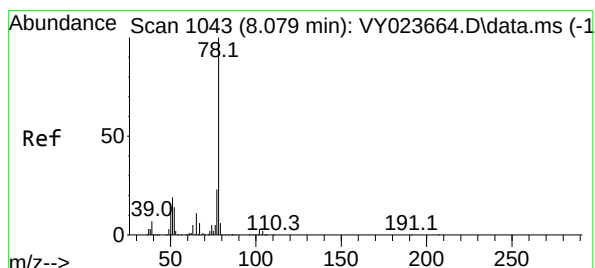
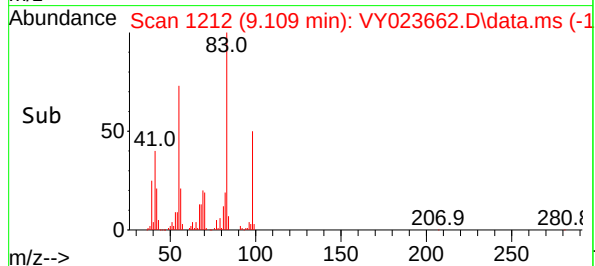
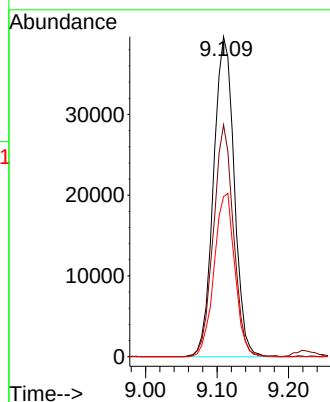
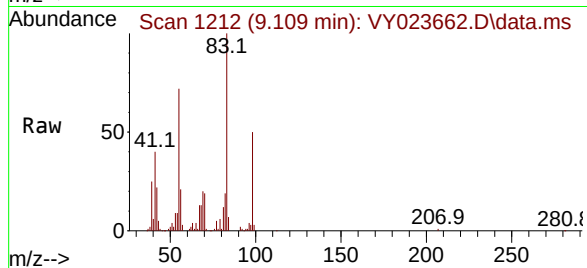
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 72.5  | 52.6  | 78.8  |
| 98  | 50.0  | 39.7  | 59.5  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 10.042 ug/l

RT: 8.079 min Scan# 1043

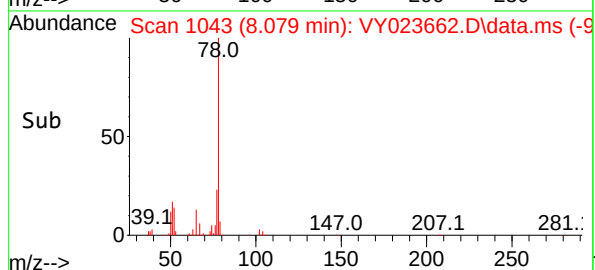
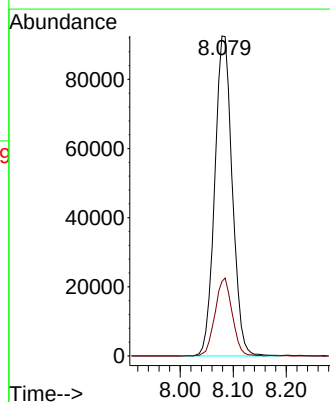
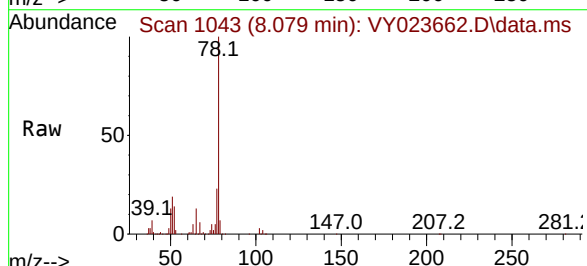
Delta R.T. -0.000 min

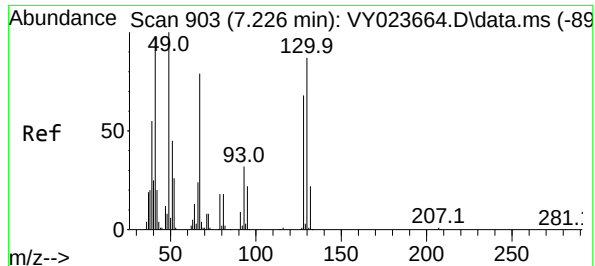
Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Tgt Ion: 78 Resp: 212456

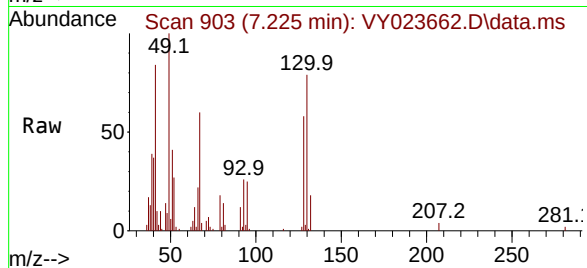
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.3  | 18.8  | 28.2  |





#41  
Methacrylonitrile  
Concen: 9.122 ug/l m  
RT: 7.225 min Scan# 903  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

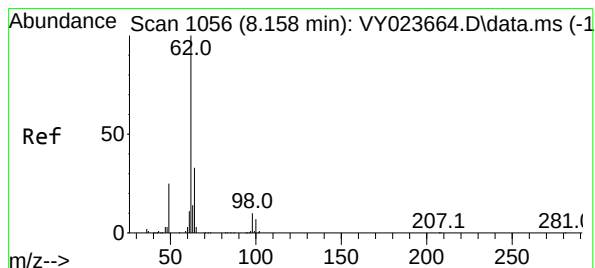
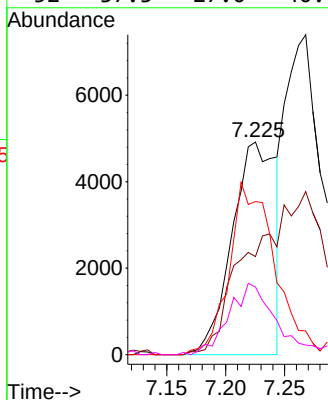
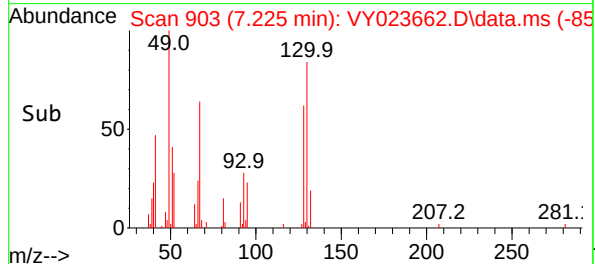
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



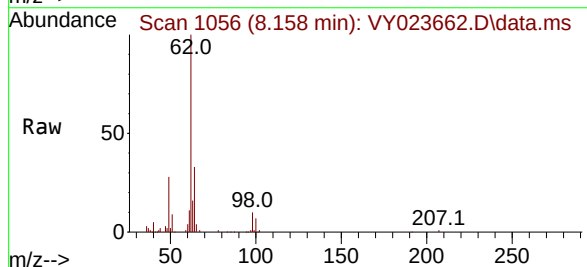
Tgt Ion: 41 Resp: 1264  
Ion Ratio Lower Upper  
41 100  
39 0.0 38.6 57.8  
67 84.1 71.3 106.9  
52 37.3 27.0 40.4

Manual Integrations  
APPROVED

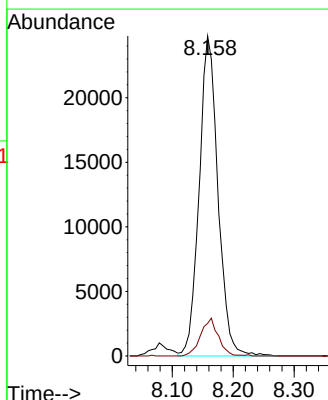
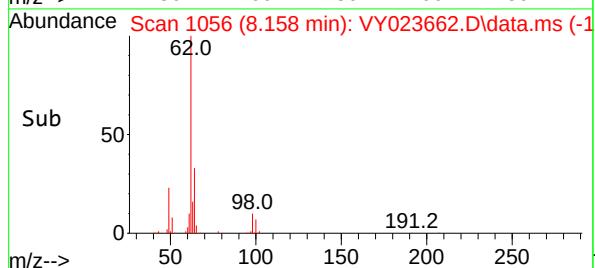
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

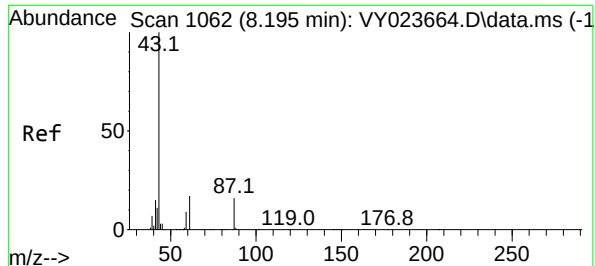


#42  
1,2-Dichloroethane  
Concen: 9.943 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42



Tgt Ion: 62 Resp: 53223  
Ion Ratio Lower Upper  
62 100  
98 11.1 0.0 21.0





#43

Isopropyl Acetate

Concen: 8.800 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 42964

Ion Ratio Lower Upper

43 100

61 24.7 18.2 27.2

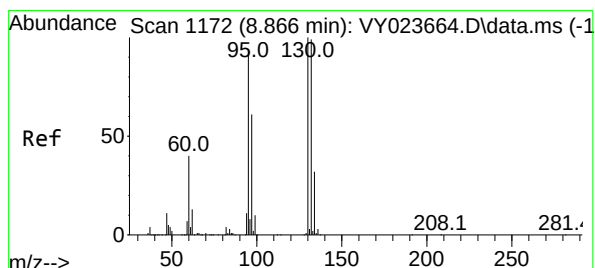
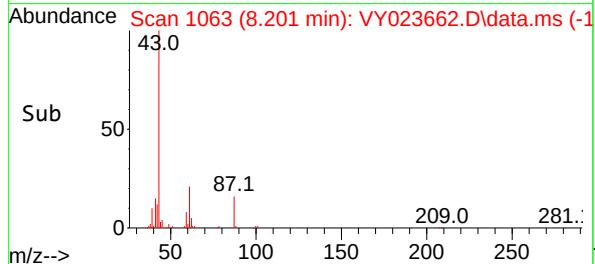
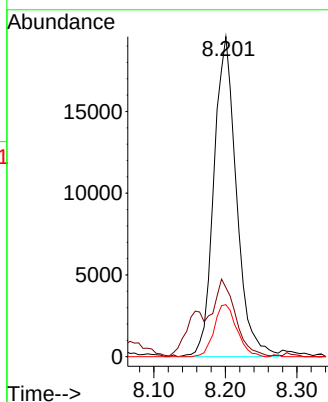
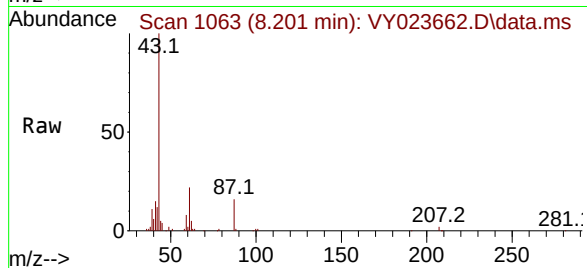
87 16.3 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 10.136 ug/l

RT: 8.865 min Scan# 1172

Delta R.T. -0.000 min

Lab File: VY023662.D

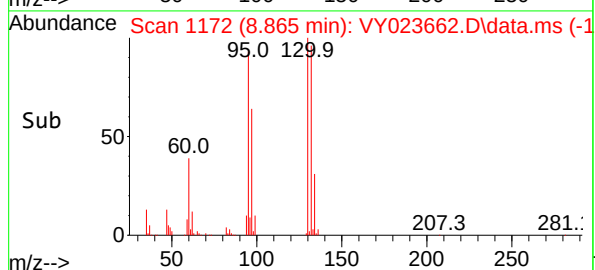
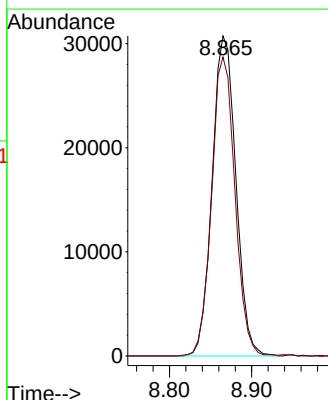
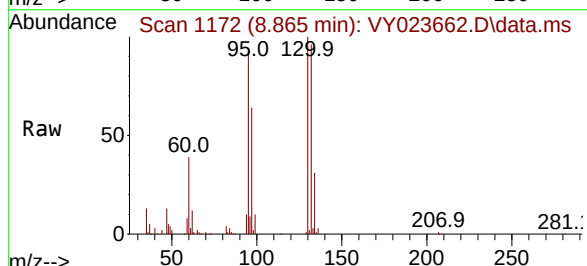
Acq: 04 Nov 2025 09:42

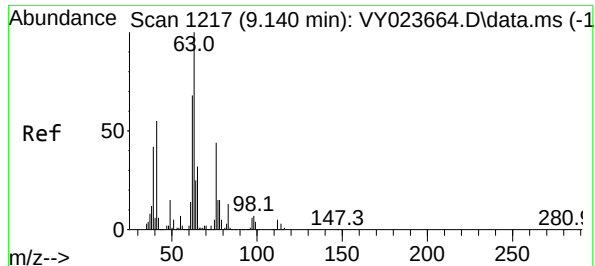
Tgt Ion:130 Resp: 61596

Ion Ratio Lower Upper

130 100

95 93.4 0.0 187.0





#45

1,2-Dichloropropane

Concen: 9.810 ug/l

RT: 9.139 min Scan# 1217

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 45808

Ion Ratio Lower Upper

63 100

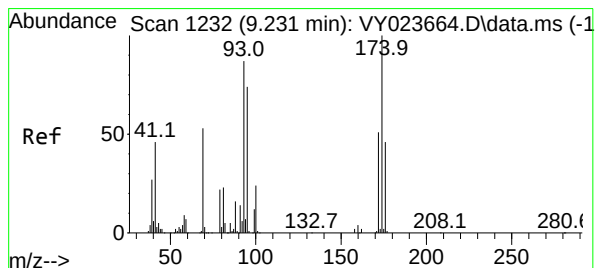
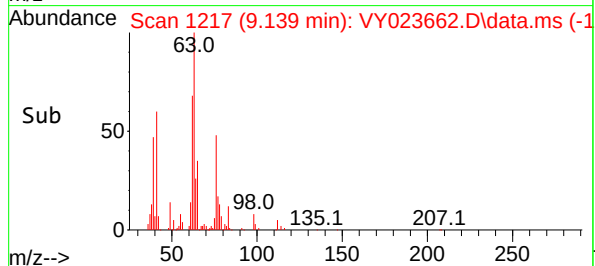
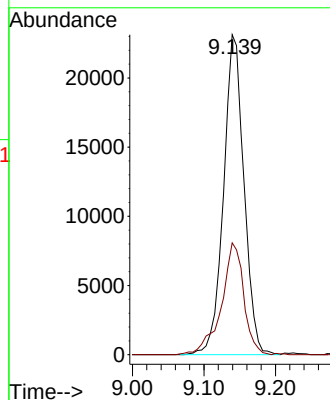
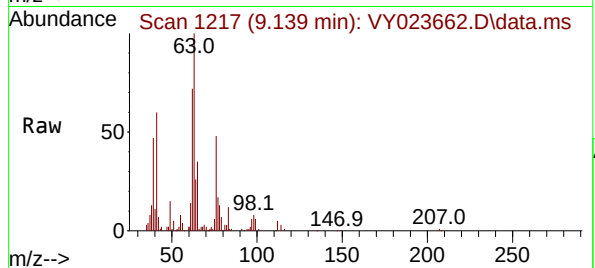
65 34.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 9.538 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

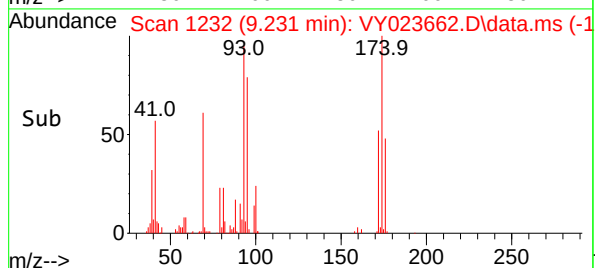
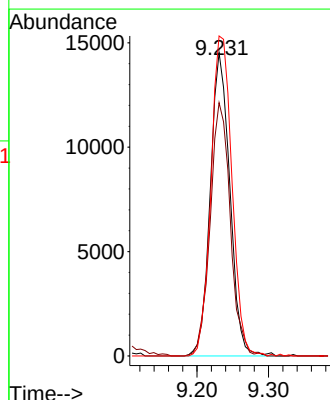
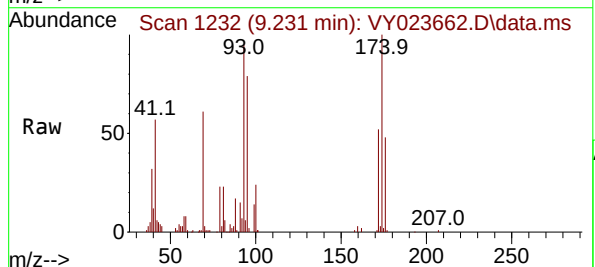
Tgt Ion: 93 Resp: 27595

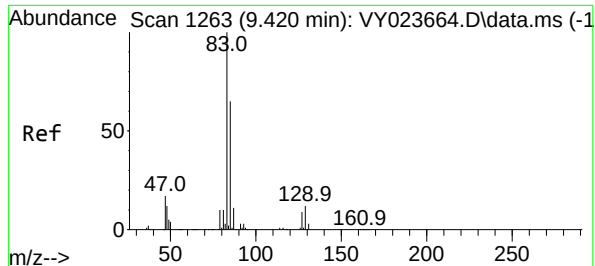
Ion Ratio Lower Upper

93 100

95 85.9 67.4 101.2

174 113.0 89.4 134.0





#47

Bromodichloromethane

Concen: 9.740 ug/l

RT: 9.426 min Scan# 1263

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 71048

Ion Ratio Lower Upper

83 100

85 61.4 52.1 78.1

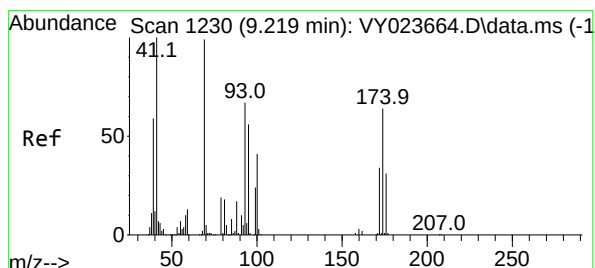
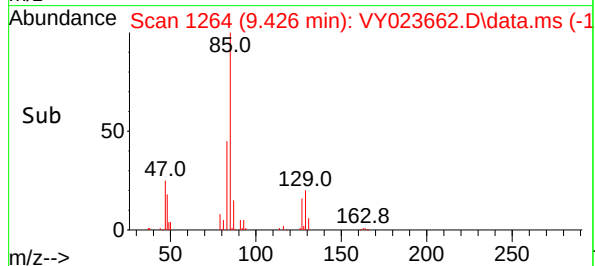
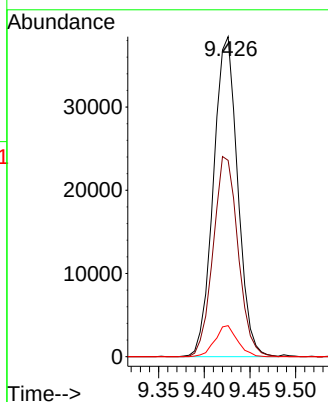
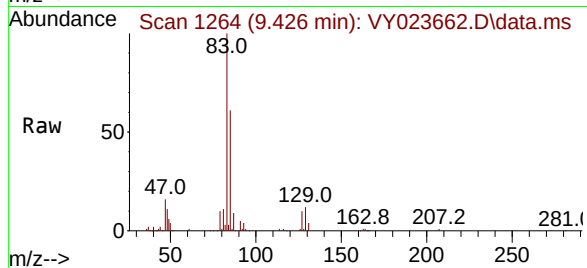
127 9.7 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 8.172 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. 0.006 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

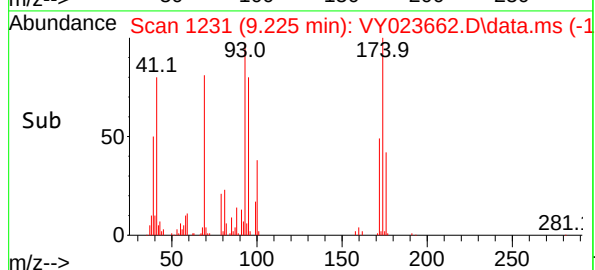
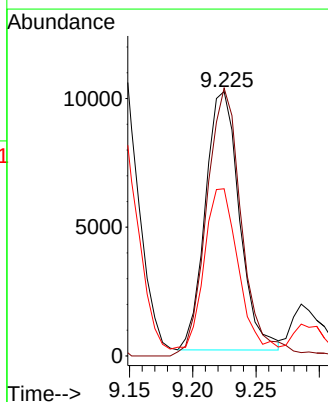
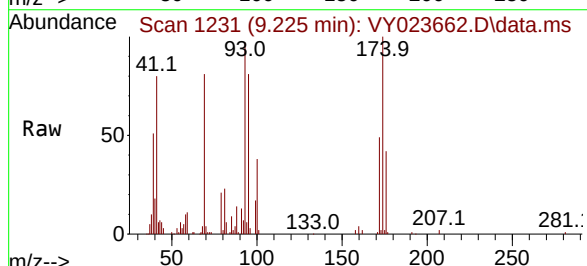
Tgt Ion: 41 Resp: 18849

Ion Ratio Lower Upper

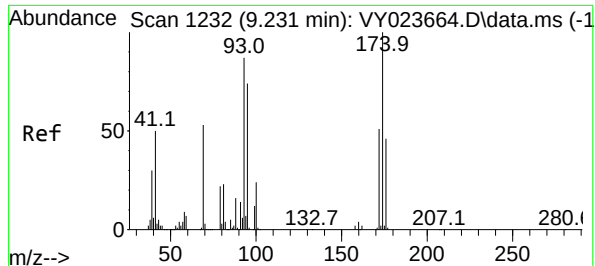
41 100

69 106.7 80.2 120.2

39 61.7 47.4 71.0







#49

1,4-Dioxane

Concen: 170.965 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 5062

Ion Ratio Lower Upper

88 100

43 31.7 22.0 33.0

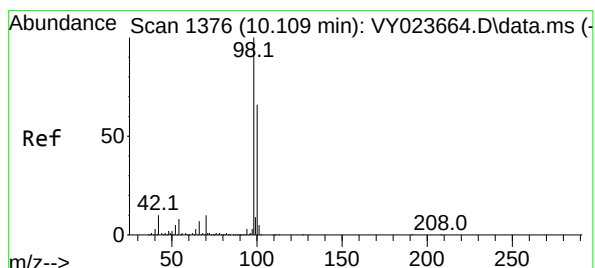
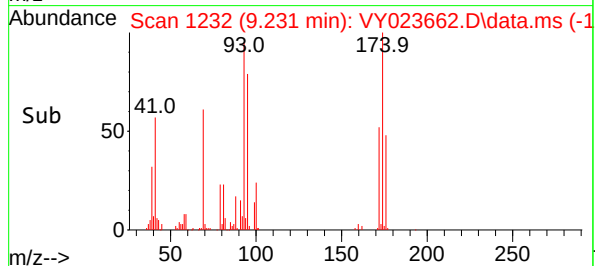
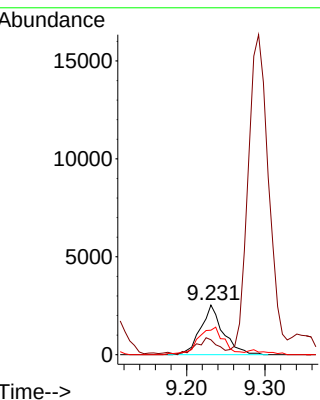
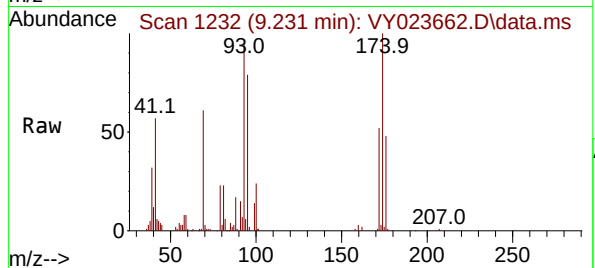
58 63.4 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 9.862 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY023662.D

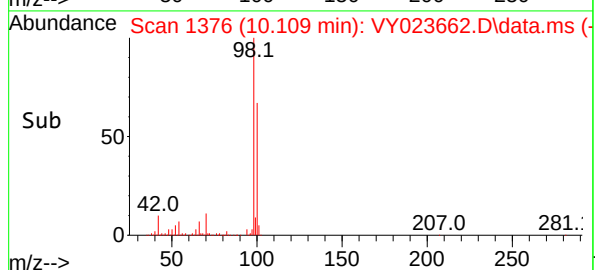
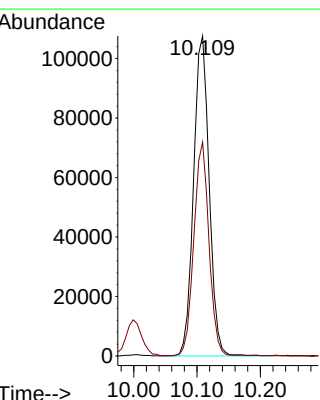
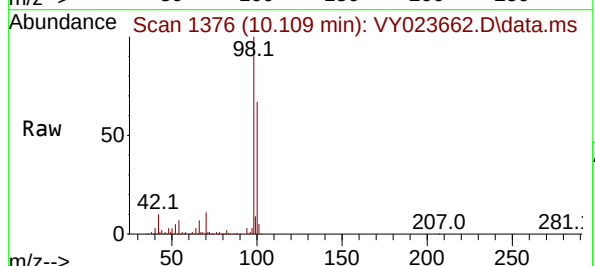
Acq: 04 Nov 2025 09:42

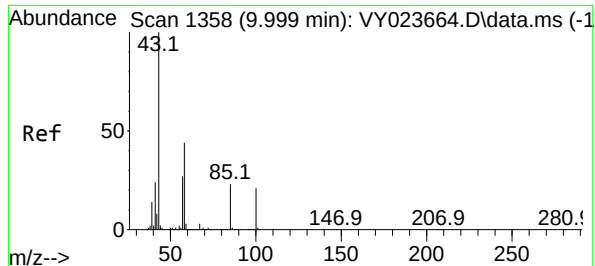
Tgt Ion: 98 Resp: 184529

Ion Ratio Lower Upper

98 100

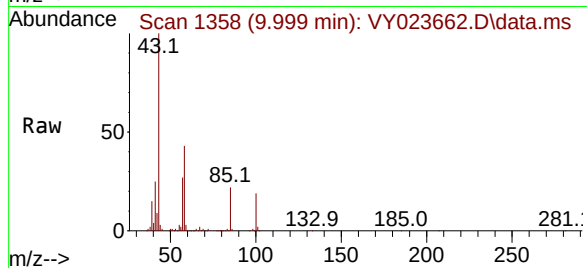
100 64.7 52.7 79.1





#51  
4-Methyl-2-Pentanone  
Concen: 42.067 ug/l  
RT: 9.999 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

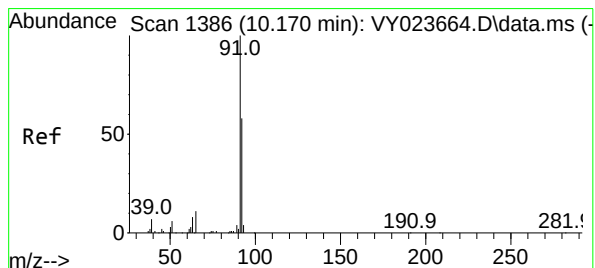
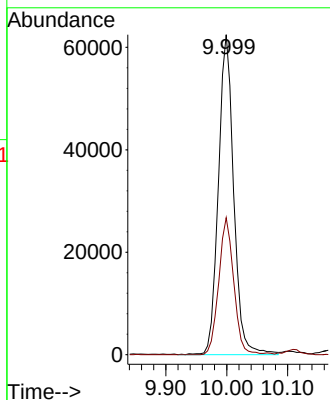
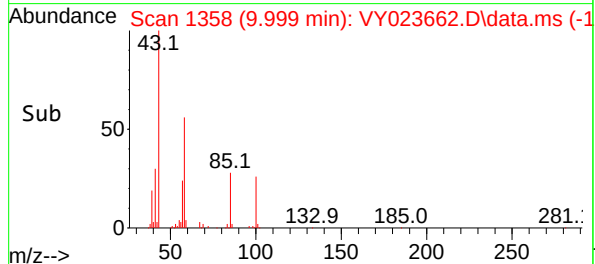
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion: 43 Resp: 10922  
Ion Ratio Lower Upper  
43 100  
58 41.9 34.8 52.2

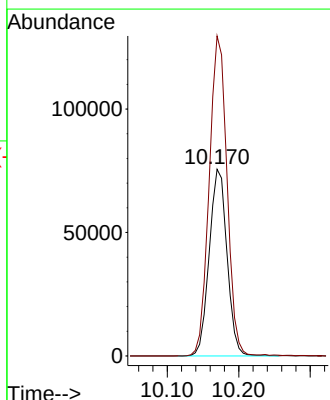
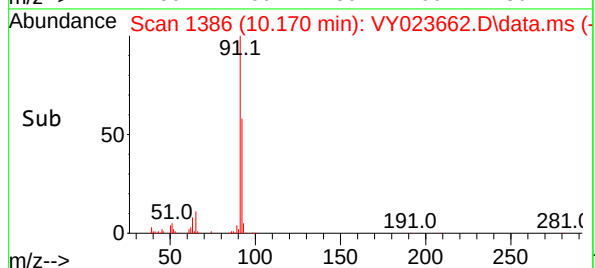
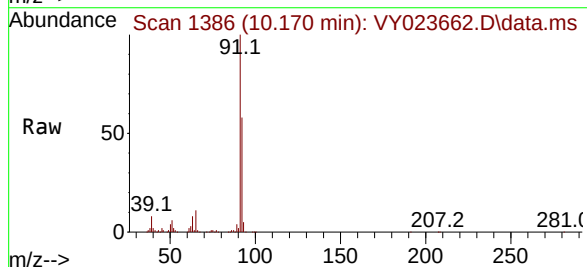
Manual Integrations  
APPROVED

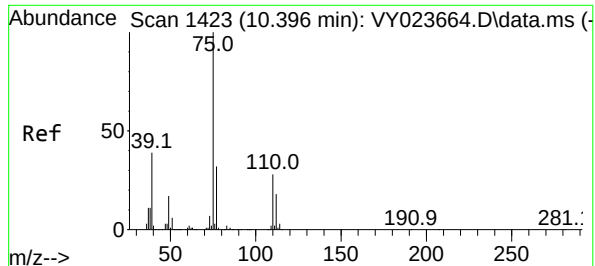
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 9.672 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

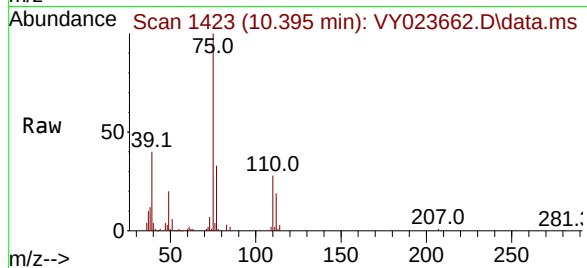
Tgt Ion: 92 Resp: 130648  
Ion Ratio Lower Upper  
92 100  
91 171.4 137.8 206.8





#53  
t-1,3-Dichloropropene  
Concen: 9.093 ug/l  
RT: 10.395 min Scan# 1423  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

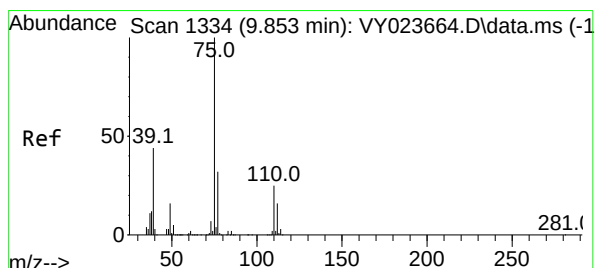
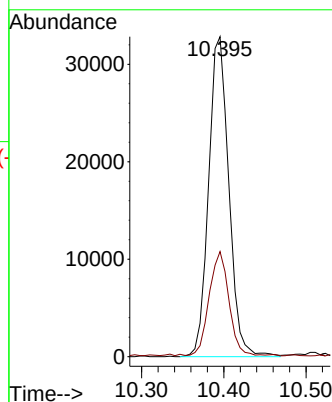
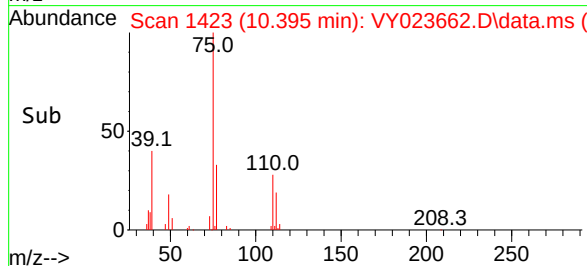
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



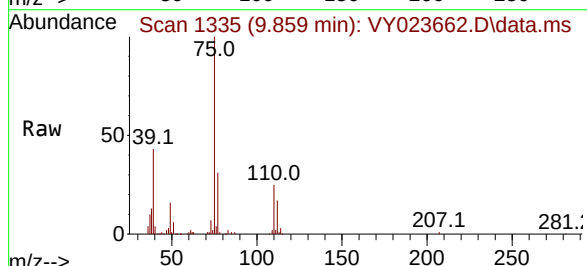
Tgt Ion: 75 Resp: 5612  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.6 38.4

Manual Integrations  
APPROVED

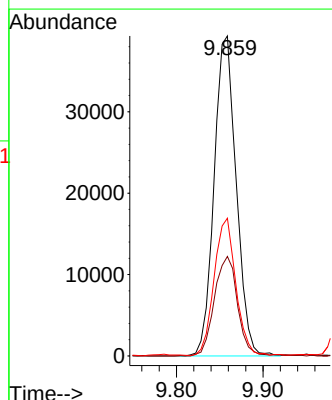
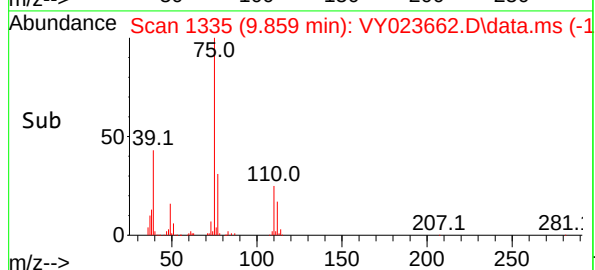
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

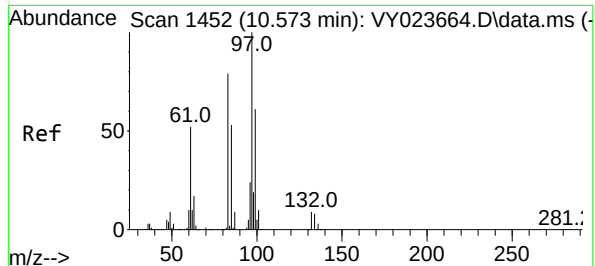


#54  
cis-1,3-Dichloropropene  
Concen: 9.436 ug/l  
RT: 9.859 min Scan# 1335  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42



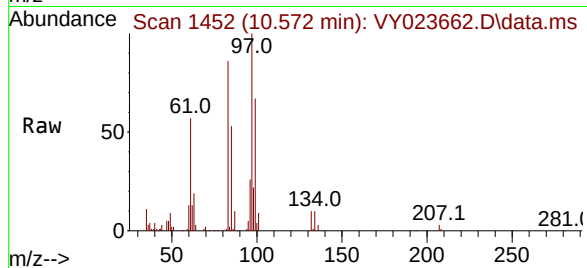
Tgt Ion: 75 Resp: 69773  
Ion Ratio Lower Upper  
75 100  
77 31.0 25.7 38.5  
39 42.7 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 9.581 ug/l  
RT: 10.572 min Scan# 1452  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

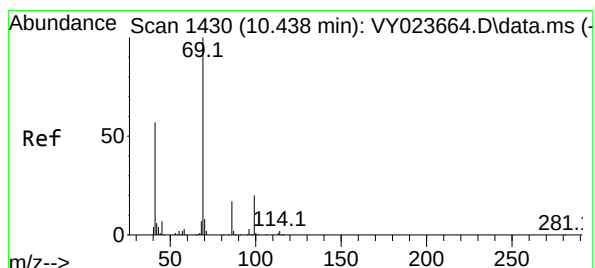
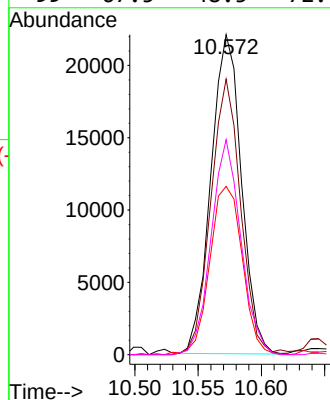
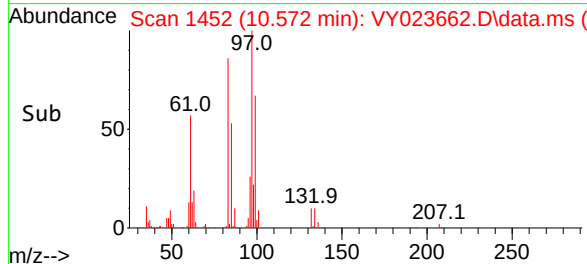
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.0  | 63.3  | 94.9  |
| 85      | 52.5  | 42.4  | 63.6  |
| 99      | 67.5  | 48.5  | 72.7  |

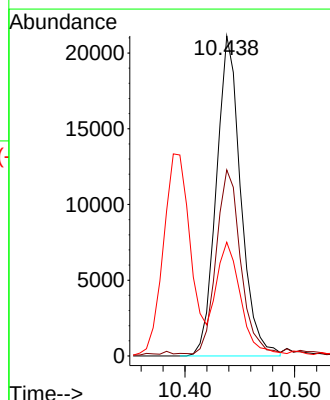
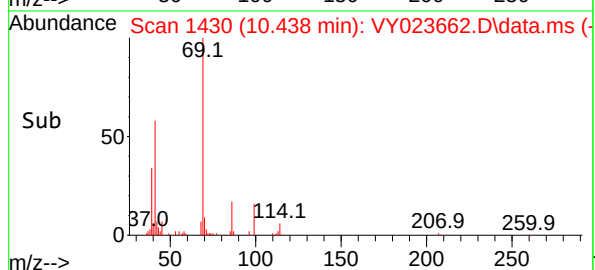
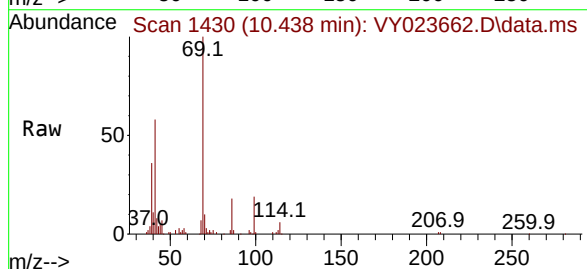
Manual Integrations  
APPROVED

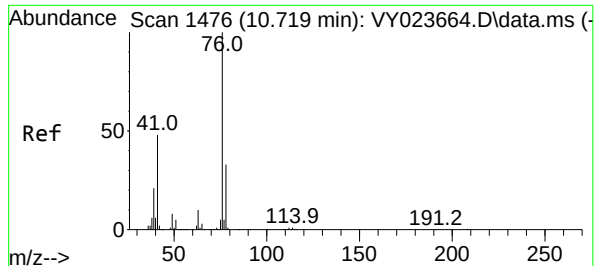
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#56  
Ethyl methacrylate  
Concen: 7.680 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

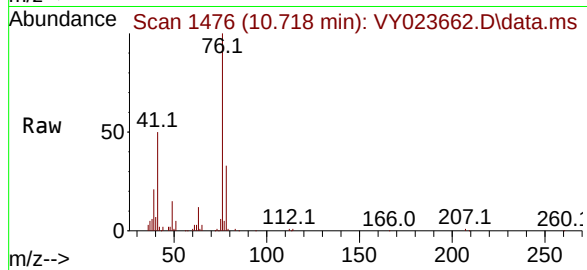
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 57.0  | 45.0  | 67.4  |
| 39      | 34.4  | 25.1  | 37.7  |





#57  
1,3-Dichloropropane  
Concen: 9.506 ug/l  
RT: 10.718 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

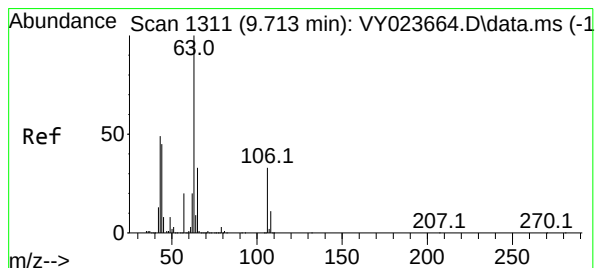
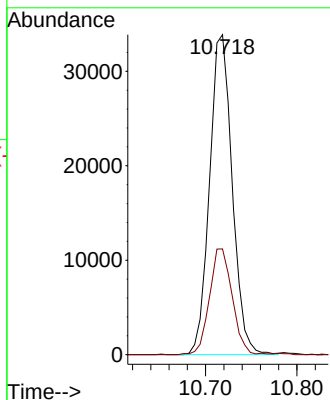
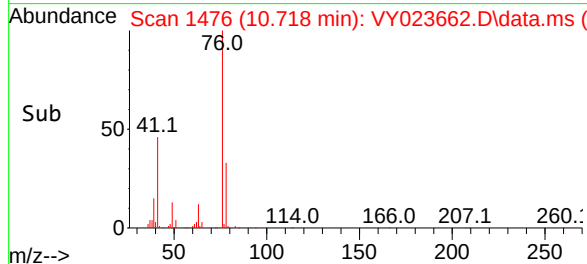
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion: 76 Resp: 5830  
Ion Ratio Lower Upper  
76 100  
78 33.3 26.0 39.0

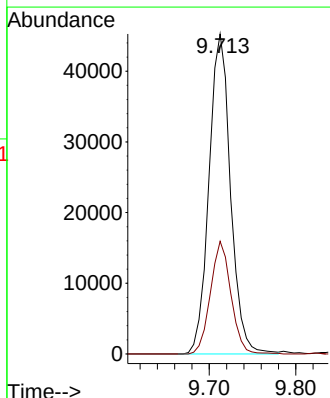
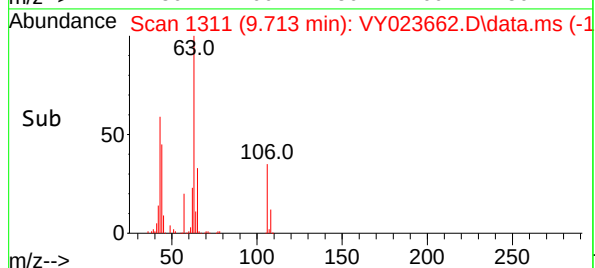
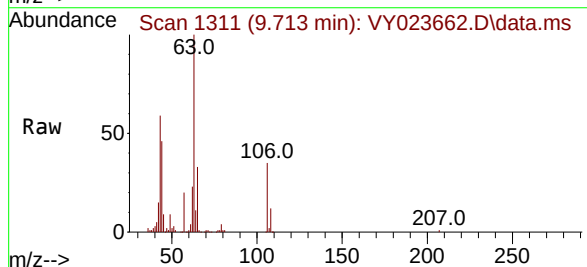
Manual Integrations  
APPROVED

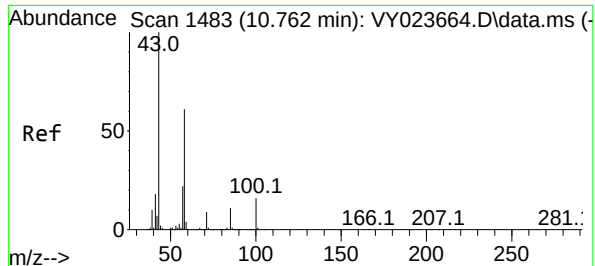
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 40.025 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

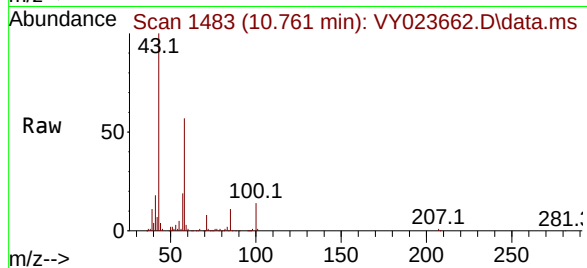
Tgt Ion: 63 Resp: 78241  
Ion Ratio Lower Upper  
63 100  
106 33.5 26.2 39.2





#59  
2-Hexanone  
Concen: 42.130 ug/l  
RT: 10.761 min Scan# 1483  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

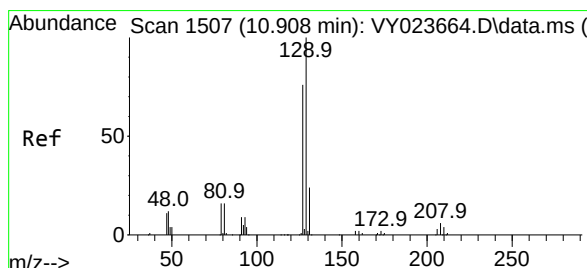
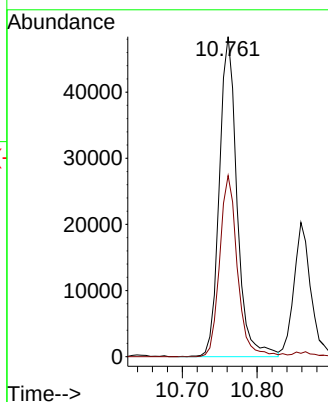
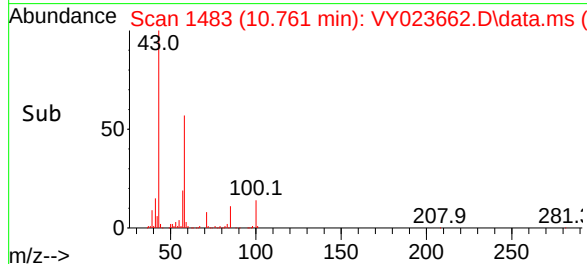
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



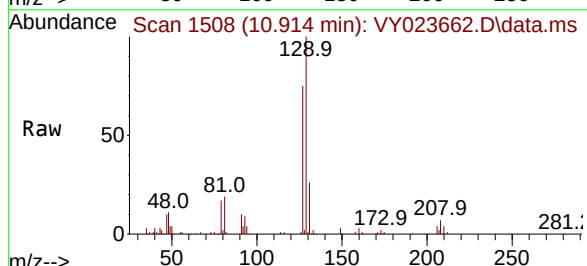
Tgt Ion: 43 Resp: 79804  
Ion Ratio Lower Upper  
43 100  
58 56.9 30.2 90.6

Manual Integrations  
APPROVED

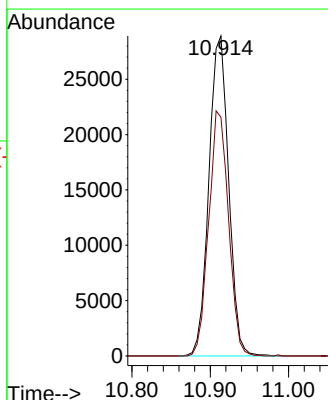
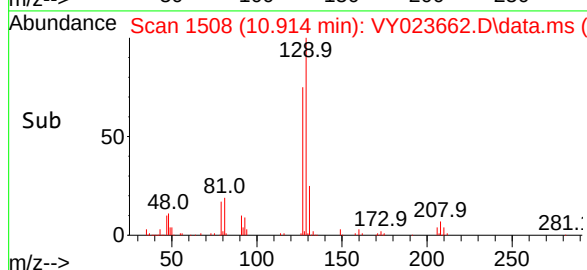
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

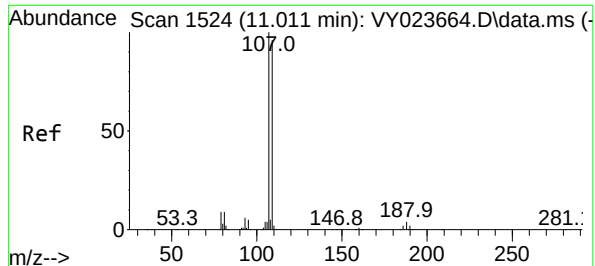


#60  
Dibromochloromethane  
Concen: 9.499 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42



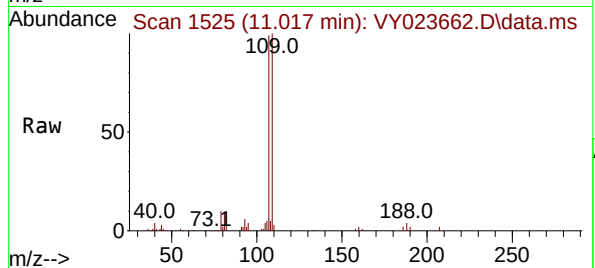
Tgt Ion:129 Resp: 50465  
Ion Ratio Lower Upper  
129 100  
127 76.9 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 9.199 ug/l  
RT: 11.017 min Scan# 1524  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

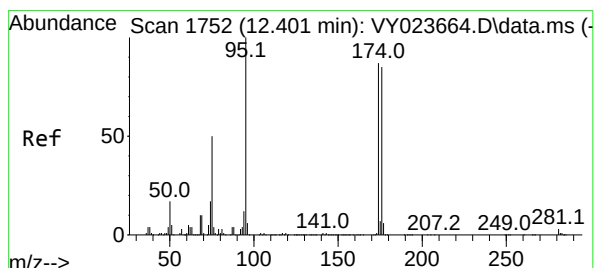
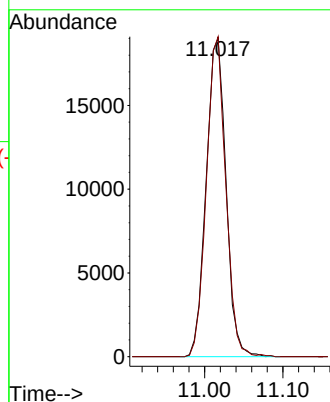
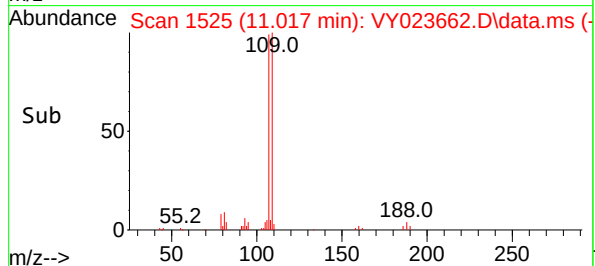
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion: 107 Resp: 33380  
Ion Ratio Lower Upper  
107 100  
109 98.0 76.2 114.4

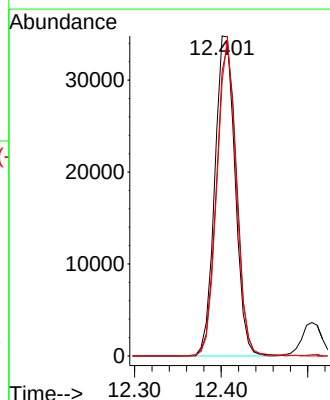
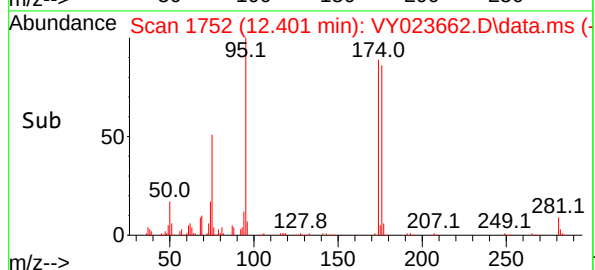
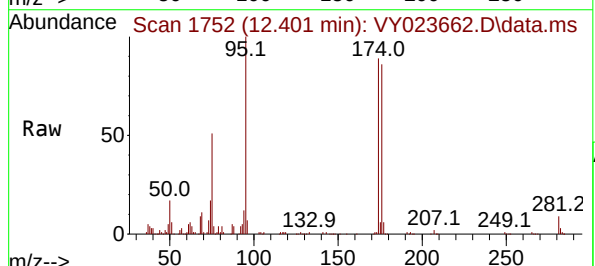
Manual Integrations  
APPROVED

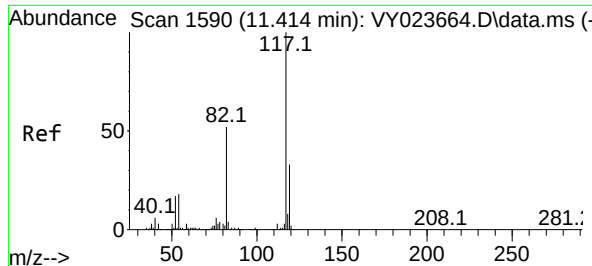
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 9.395 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

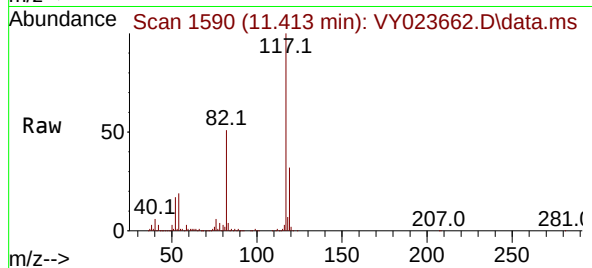
Tgt Ion: 95 Resp: 56847  
Ion Ratio Lower Upper  
95 100  
174 96.7 0.0 184.8  
176 93.3 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.413 min Scan# 1590  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

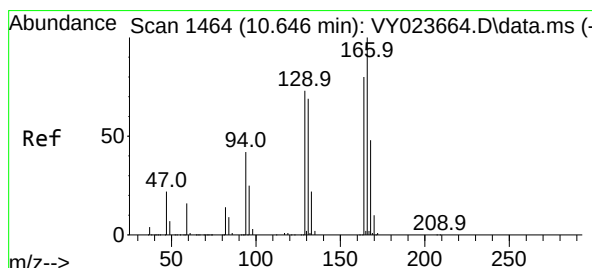
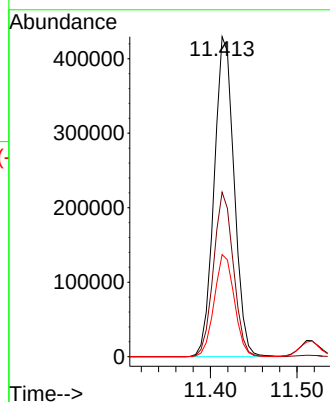
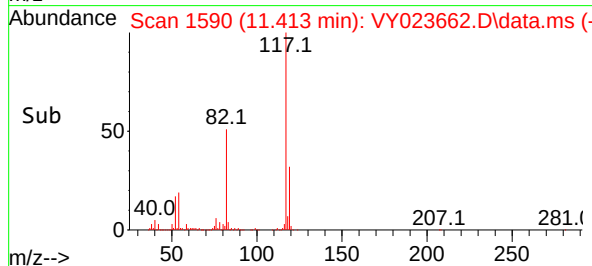
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:117 Resp: 69056  
Ion Ratio Lower Upper  
117 100  
82 51.4 41.2 61.8  
119 31.9 26.2 39.2

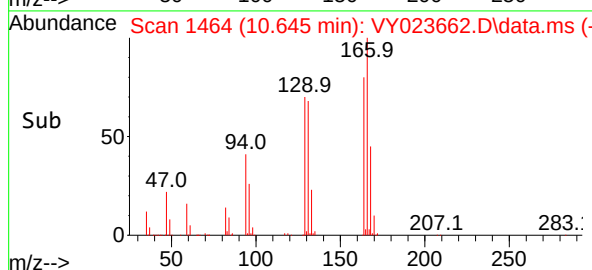
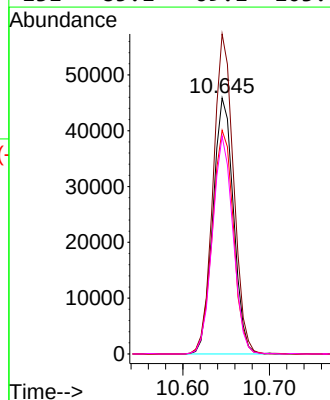
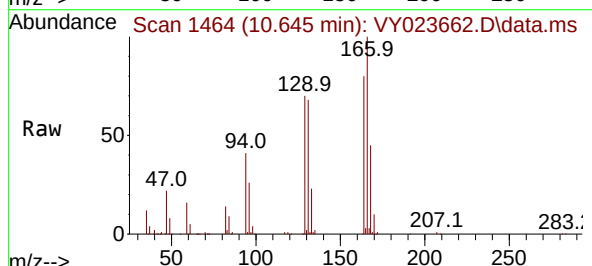
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

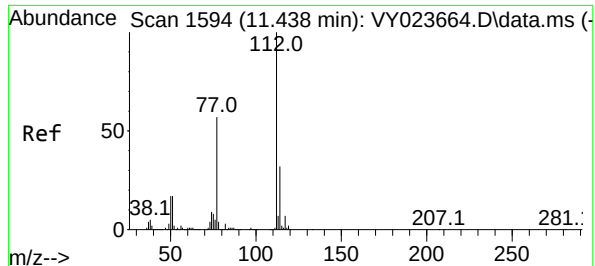


#64  
Tetrachloroethene  
Concen: 10.541 ug/l  
RT: 10.645 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion:164 Resp: 75769  
Ion Ratio Lower Upper  
164 100  
166 125.0 99.5 149.3  
129 87.4 72.3 108.5  
131 85.1 69.1 103.7

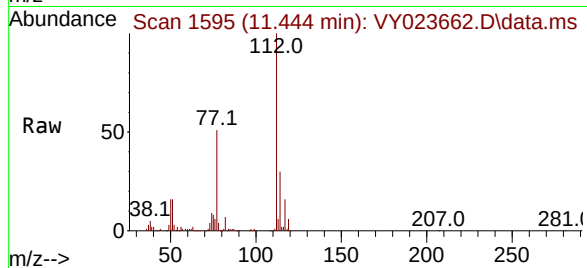






#65  
Chlorobenzene  
Concen: 10.063 ug/l  
RT: 11.444 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

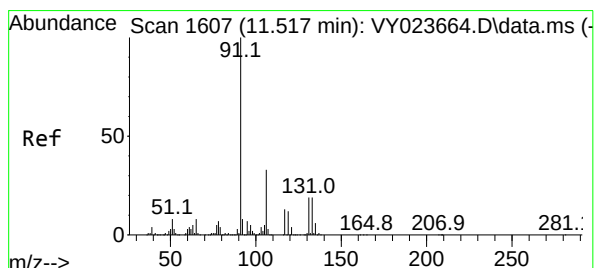
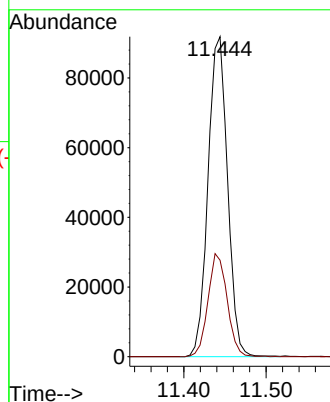
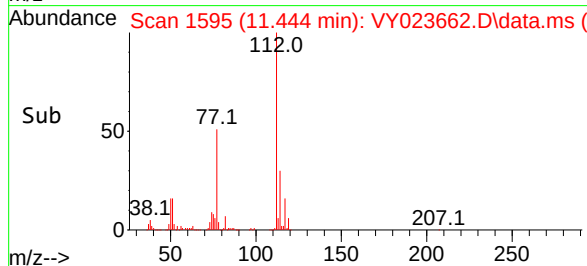
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion:112 Resp: 15128  
Ion Ratio Lower Upper  
112 100  
114 30.1 25.8 38.6

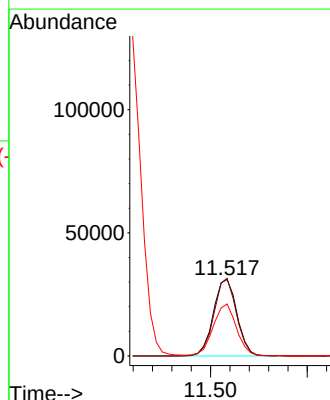
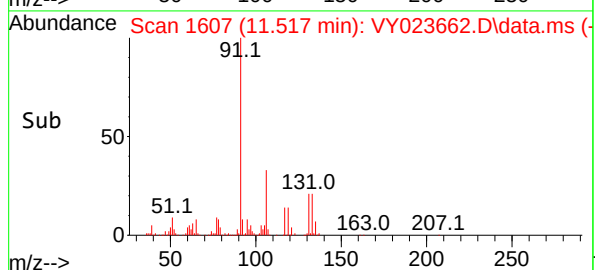
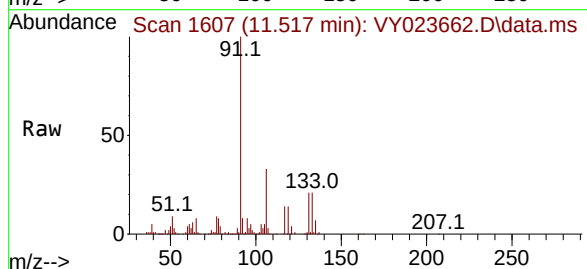
Manual Integrations  
APPROVED

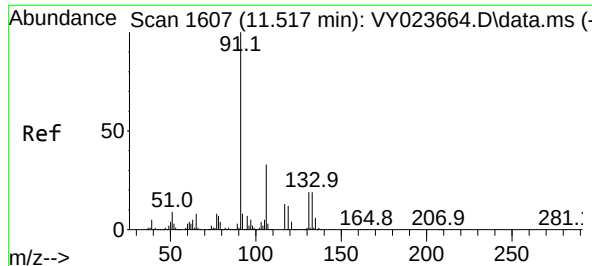
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 9.868 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

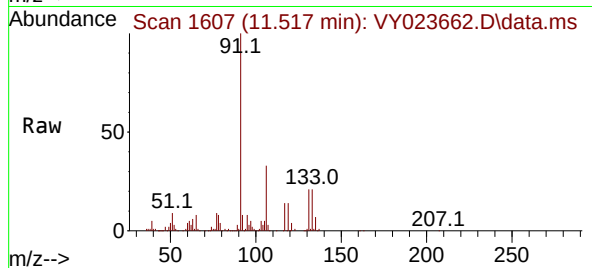
Tgt Ion:131 Resp: 52459  
Ion Ratio Lower Upper  
131 100  
133 96.9 47.3 141.8  
119 67.8 32.5 97.4





#67  
Ethyl Benzene  
Concen: 9.430 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

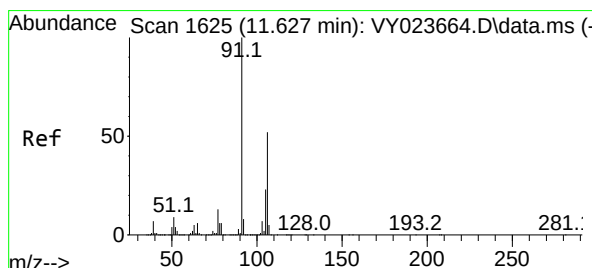
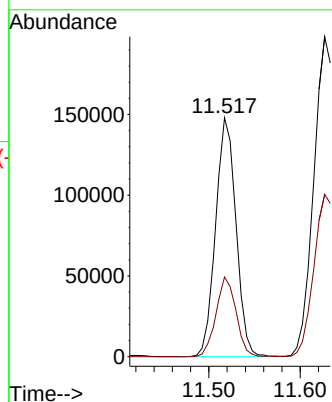
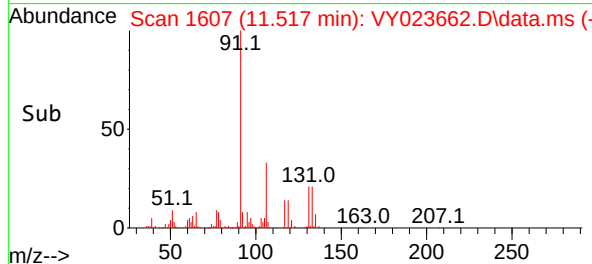
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion: 91 Resp: 229438  
Ion Ratio Lower Upper  
91 100  
106 33.3 26.6 40.0

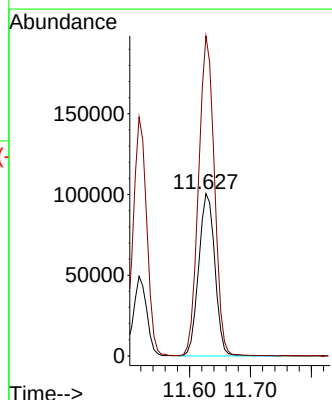
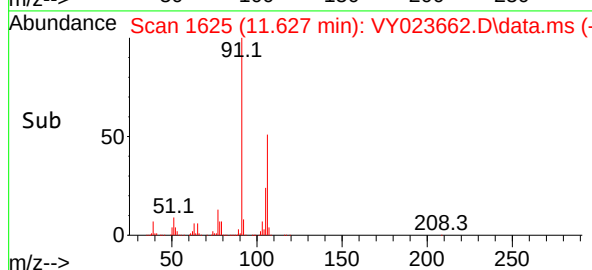
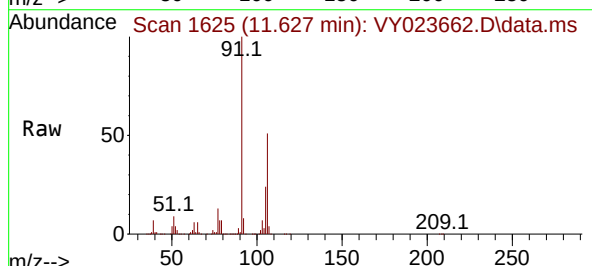
Manual Integrations  
APPROVED

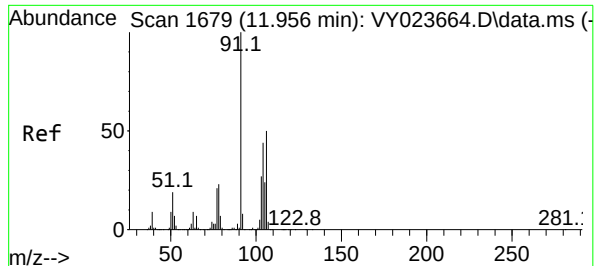
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#68  
m/p-Xylenes  
Concen: 19.072 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

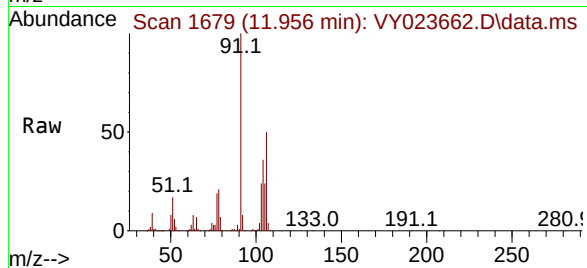
Tgt Ion:106 Resp: 185401  
Ion Ratio Lower Upper  
106 100  
91 192.8 154.3 231.5





#69  
o-Xylene  
Concen: 9.219 ug/l  
RT: 11.956 min Scan# 1679  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

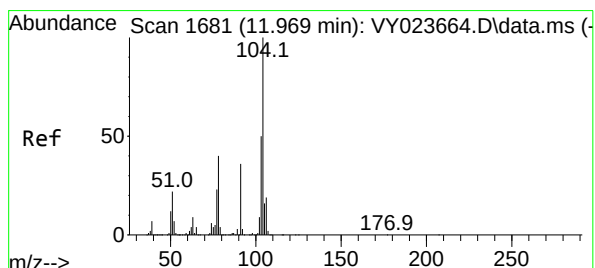
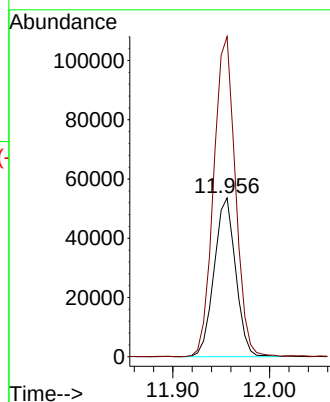
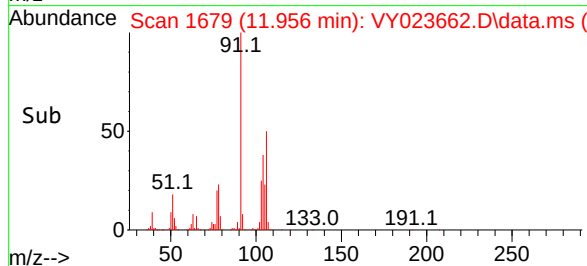
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:106 Resp: 82840  
Ion Ratio Lower Upper  
106 100  
91 204.1 101.6 304.6

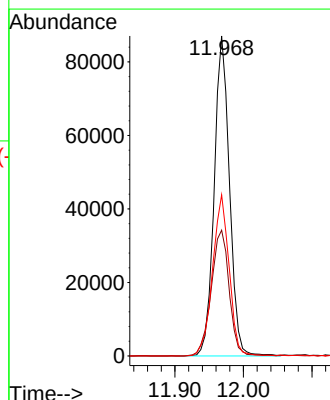
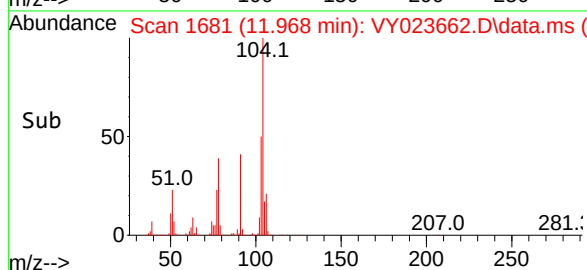
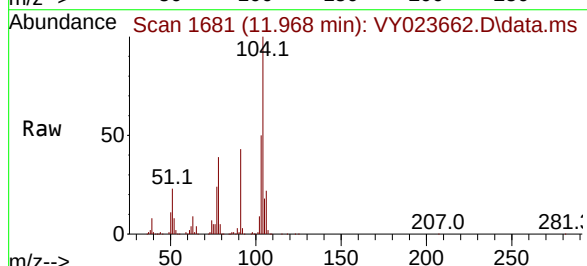
Manual Integrations  
APPROVED

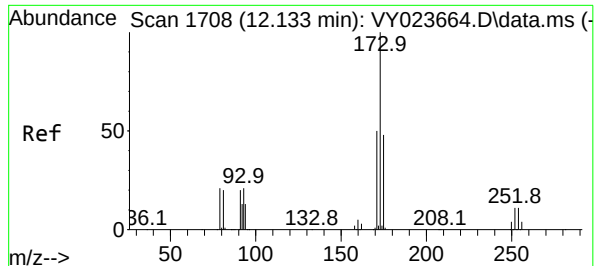
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 9.119 ug/l  
RT: 11.968 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

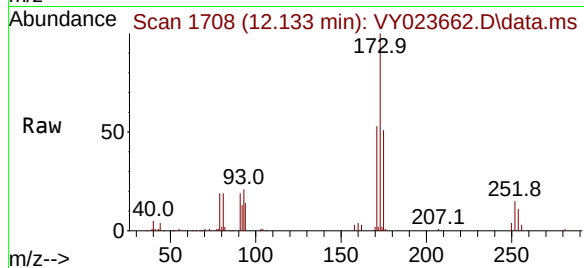
Tgt Ion:104 Resp: 135208  
Ion Ratio Lower Upper  
104 100  
78 46.2 36.5 54.7  
103 54.4 43.7 65.5





#71  
Bromoform  
Concen: 9.315 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

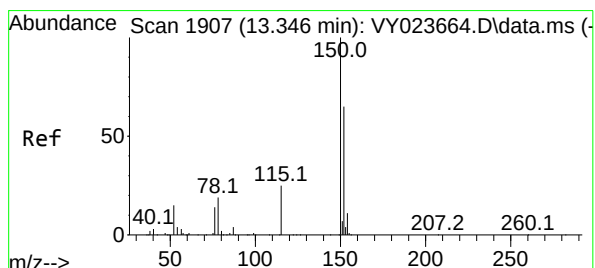
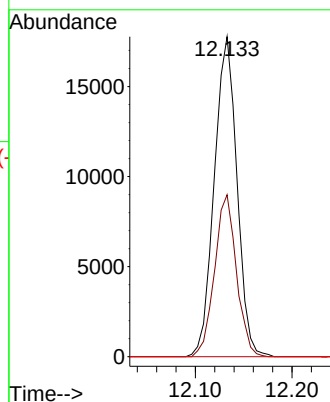
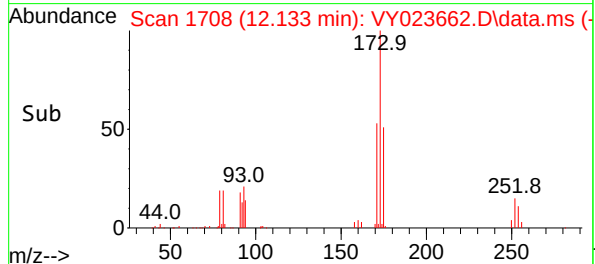
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



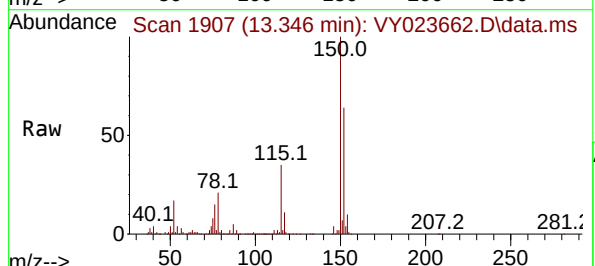
Tgt Ion:173 Resp: 2892  
Ion Ratio Lower Upper  
173 100  
175 48.8 24.2 72.6  
254 0.0 0.2 0.2

Manual Integrations  
APPROVED

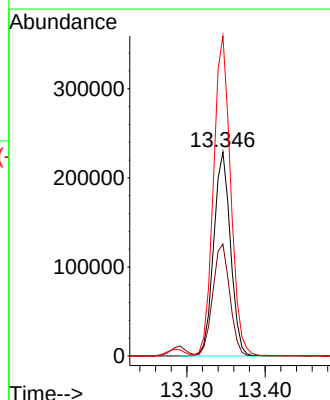
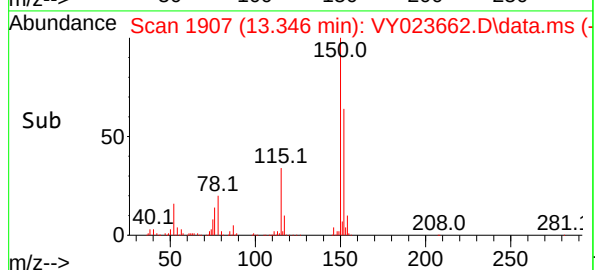
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

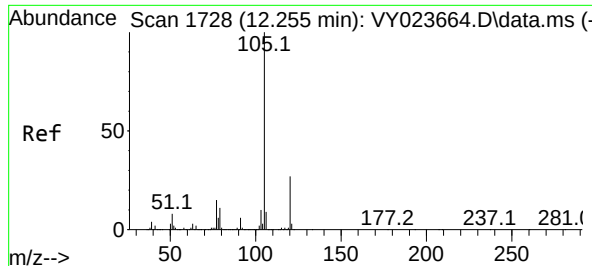


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42



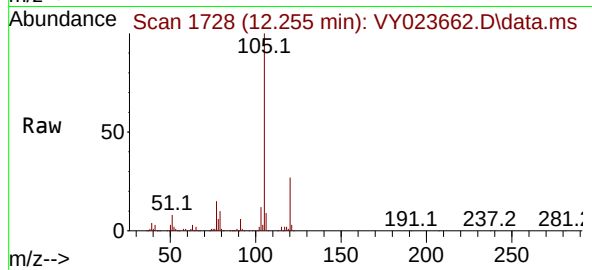
Tgt Ion:152 Resp: 340245  
Ion Ratio Lower Upper  
152 100  
115 55.9 27.5 82.5  
150 160.5 0.0 349.0





#73  
Isopropylbenzene  
Concen: 9.579 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

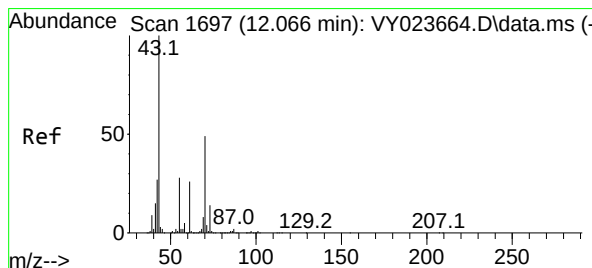
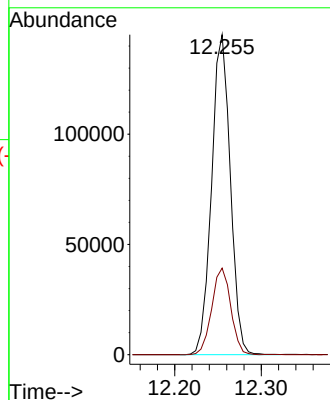
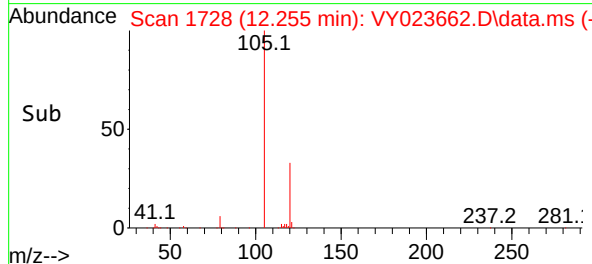
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:105 Resp: 217972  
Ion Ratio Lower Upper  
105 100  
120 27.4 13.6 40.7

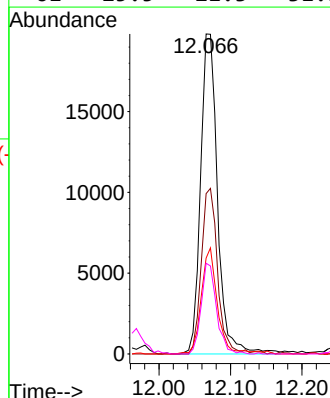
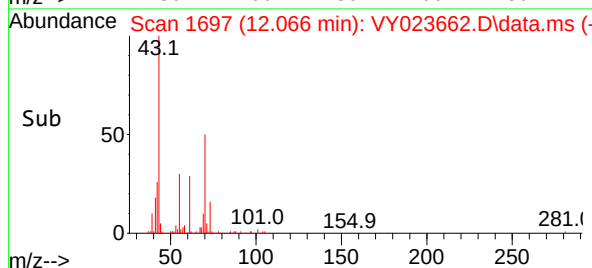
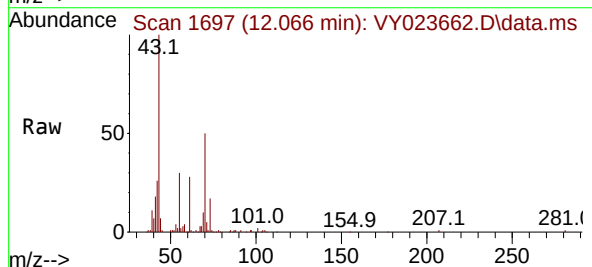
Manual Integrations  
APPROVED

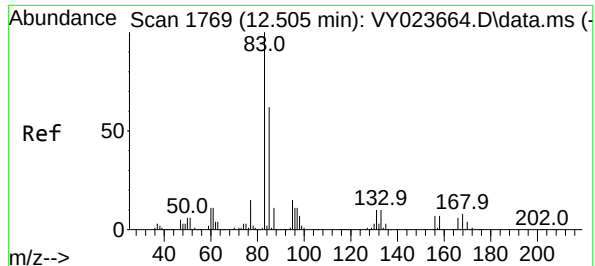
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 8.492 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 43 Resp: 32719  
Ion Ratio Lower Upper  
43 100  
70 49.9 40.1 60.1  
55 31.2 23.0 34.6  
61 25.5 21.3 31.9





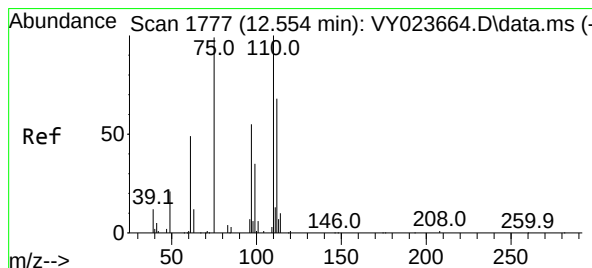
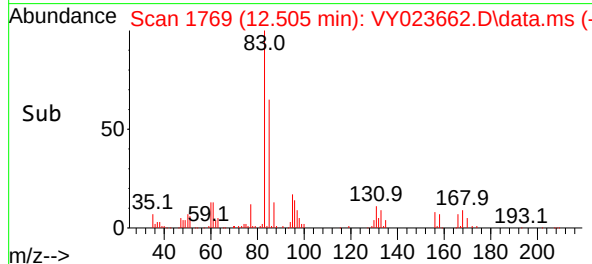
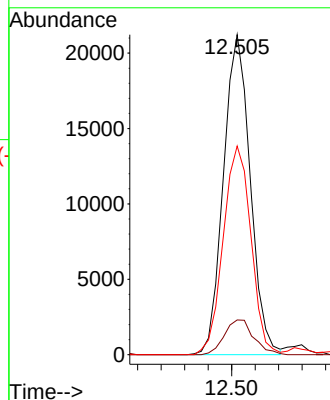
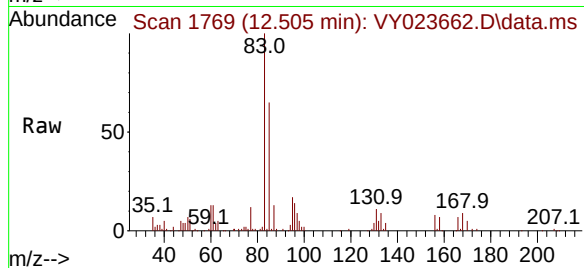
#75  
1,1,2,2-Tetrachloroethane  
Concen: 9.251 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010

| Tgt Ion:  | 83    | Resp: | 3362 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 131       | 11.9  | 5.7   | 17.0 |
| 85        | 67.4  | 31.9  | 95.7 |

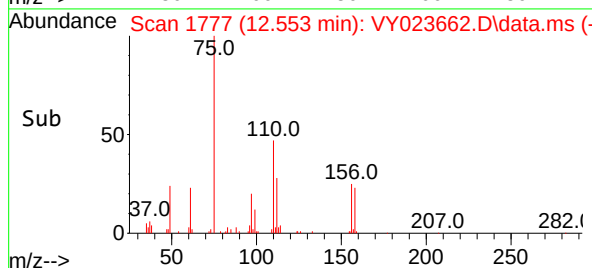
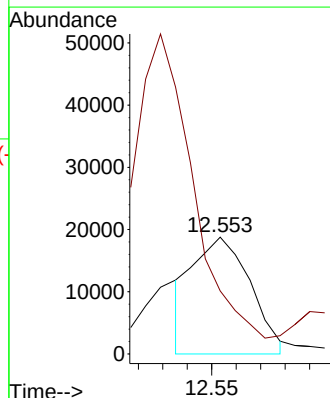
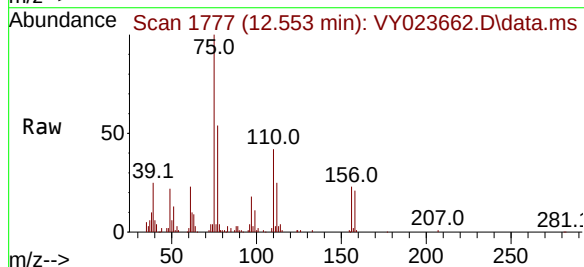
Manual Integrations  
APPROVED

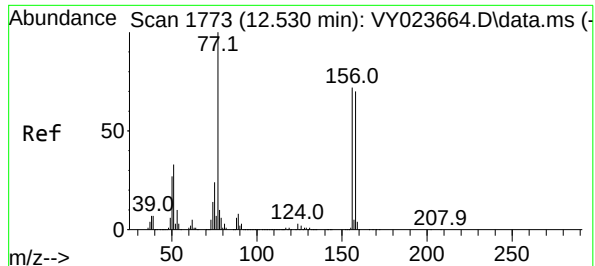
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#76  
1,2,3-Trichloropropane  
Concen: 11.195 ug/l m  
RT: 12.553 min Scan# 1777  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

| Tgt Ion:  | 75    | Resp: | 30827 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 0.0   | 0.0   | 0.0   |





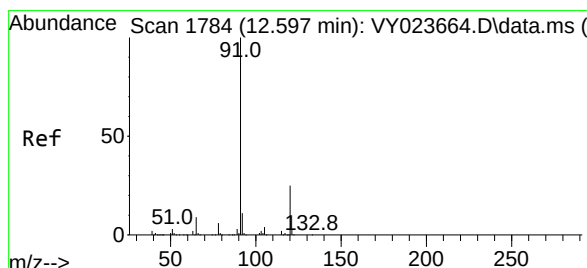
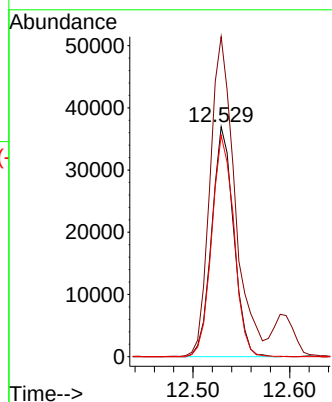
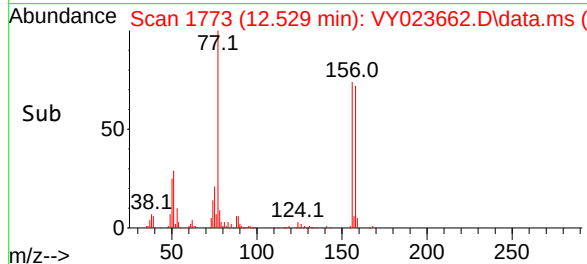
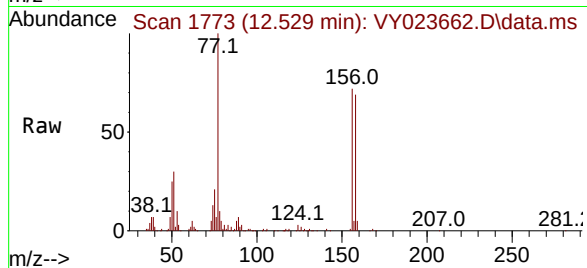
#77  
Bromobenzene  
Concen: 9.855 ug/l  
RT: 12.529 min Scan# 1773  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010

Tgt Ion:156 Resp: 5817  
Ion Ratio Lower Upper  
156 100  
77 157.7 77.9 233.7  
158 97.3 48.5 145.5

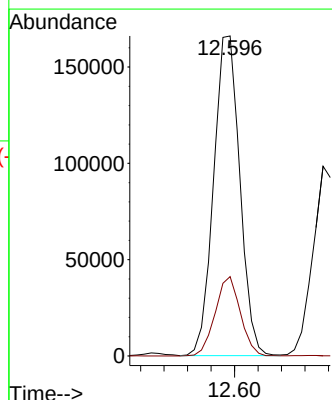
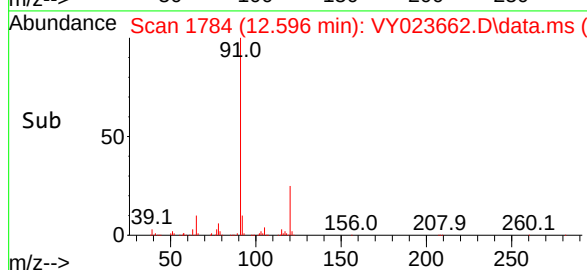
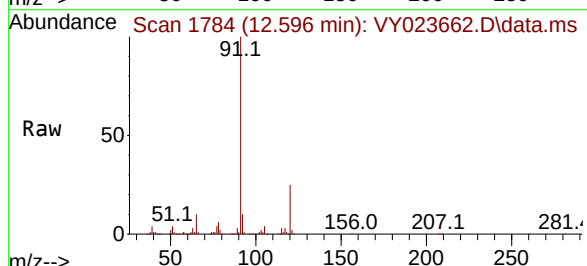
Manual Integrations  
APPROVED

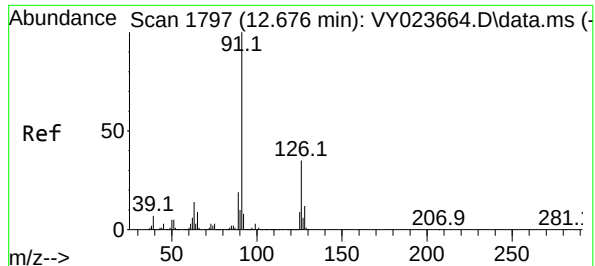
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 9.612 ug/l  
RT: 12.596 min Scan# 1784  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 91 Resp: 257281  
Ion Ratio Lower Upper  
91 100  
120 23.9 12.0 36.1





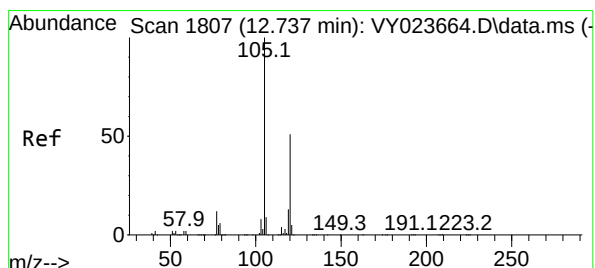
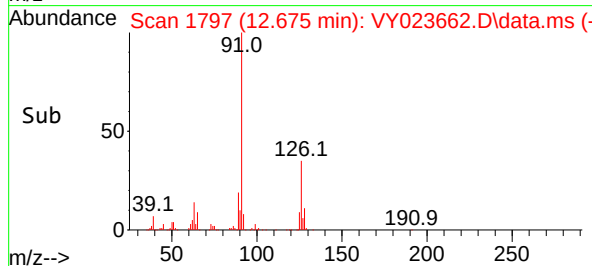
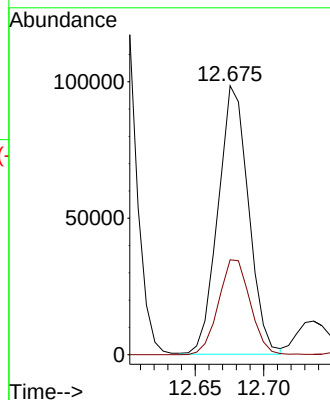
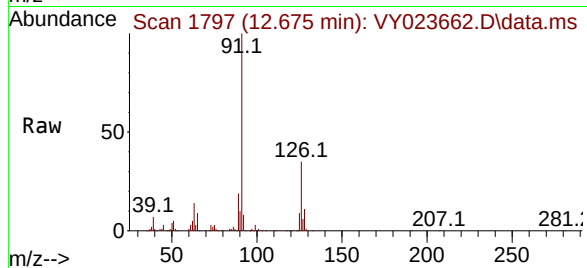
#79  
2-Chlorotoluene  
Concen: 9.830 ug/l  
RT: 12.675 min Scan# 1797  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010

Tgt Ion: 91 Resp: 15269  
Ion Ratio Lower Upper  
91 100  
126 36.6 18.0 54.0

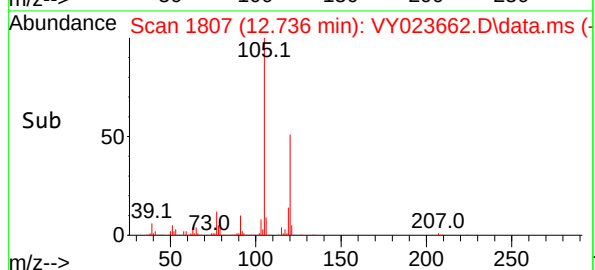
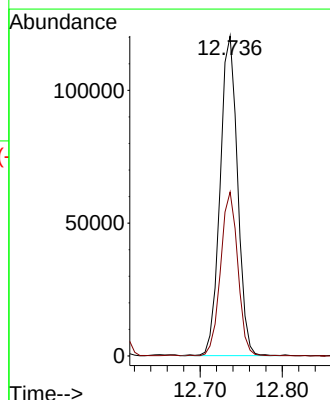
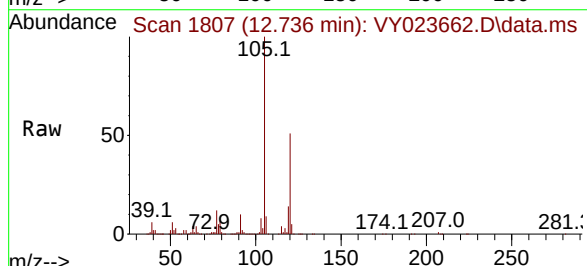
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

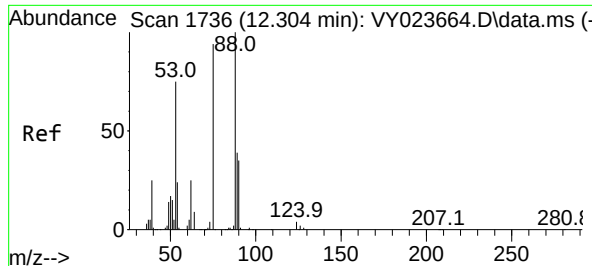


#80  
1,3,5-Trimethylbenzene  
Concen: 9.585 ug/l  
RT: 12.736 min Scan# 1807  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion:105 Resp: 177222  
Ion Ratio Lower Upper  
105 100  
120 51.0 25.4 76.2

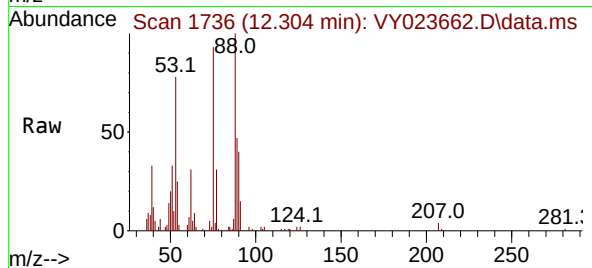






#81  
trans-1,4-Dichloro-2-butene  
Concen: 9.416 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

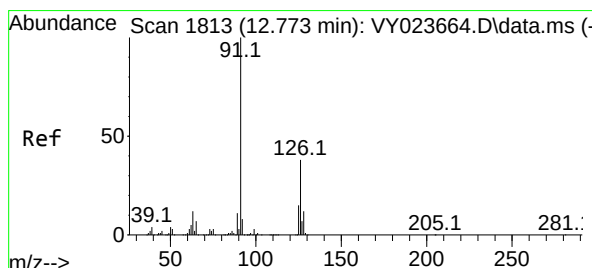
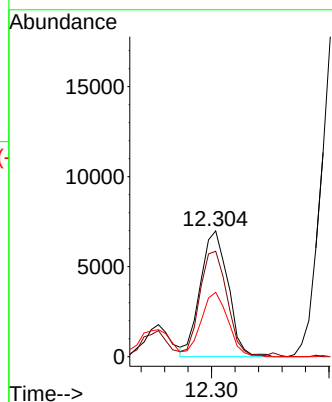
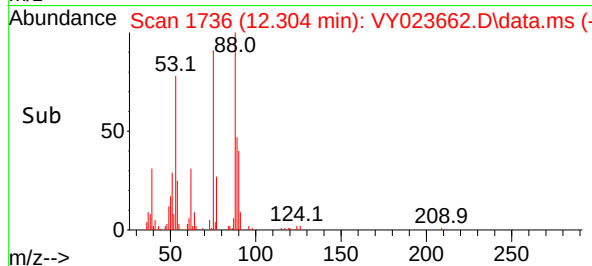
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion: 75 Resp: 1147  
Ion Ratio Lower Upper  
75 100  
53 81.0 69.6 104.4  
89 49.7 38.2 57.4

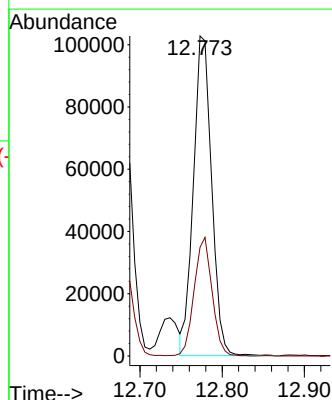
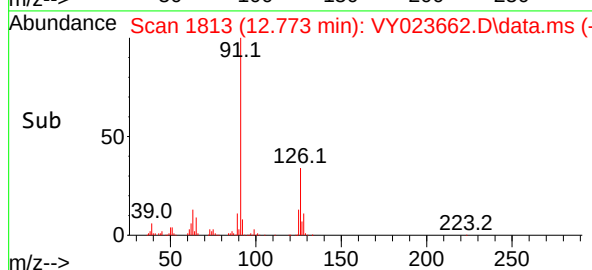
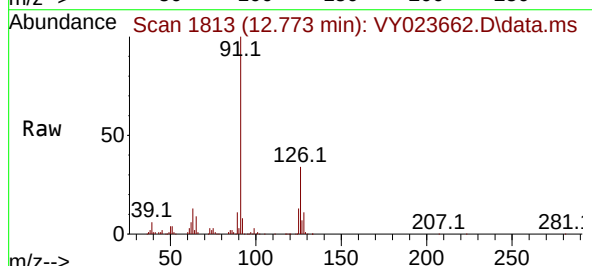
Manual Integrations  
APPROVED

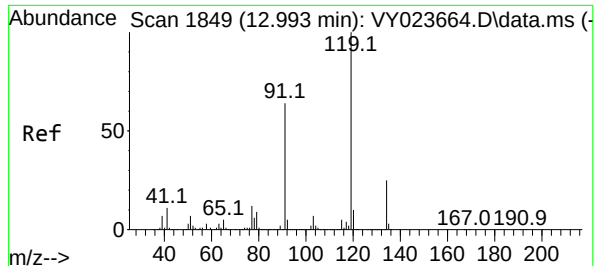
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 9.876 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

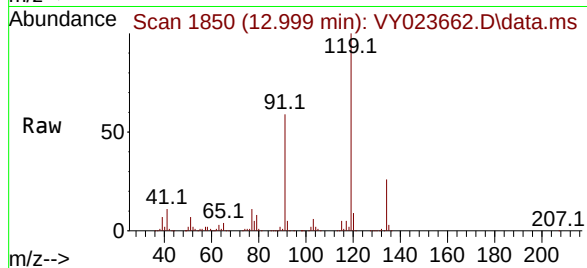
Tgt Ion: 91 Resp: 158206  
Ion Ratio Lower Upper  
91 100  
126 36.5 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 9.400 ug/l  
RT: 12.999 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

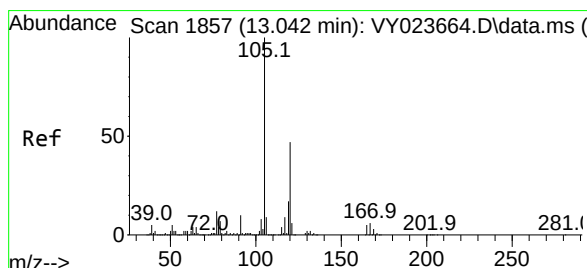
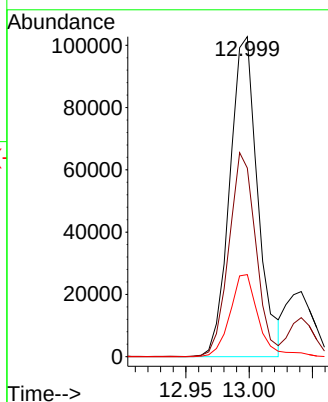
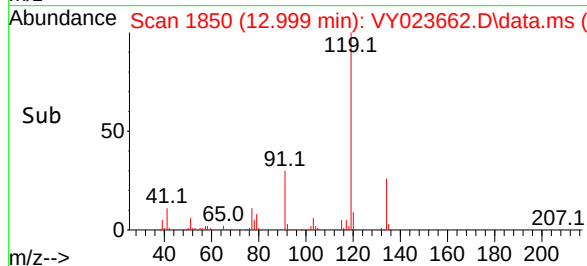
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC010



Tgt Ion:119 Resp: 158294  
Ion Ratio Lower Upper  
119 100  
91 61.5 30.7 92.1  
134 26.2 13.1 39.1

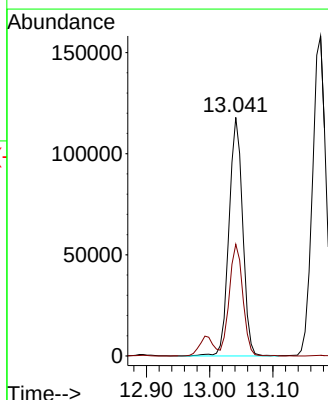
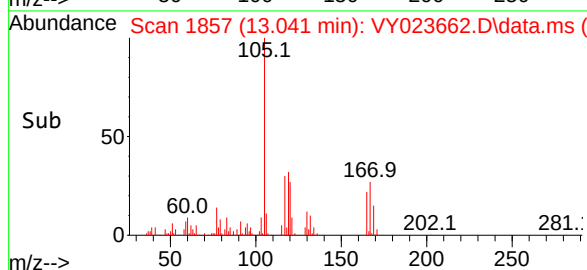
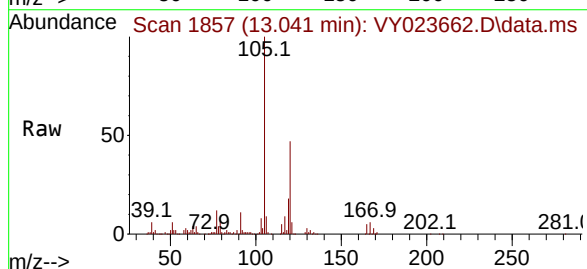
Manual Integrations  
APPROVED

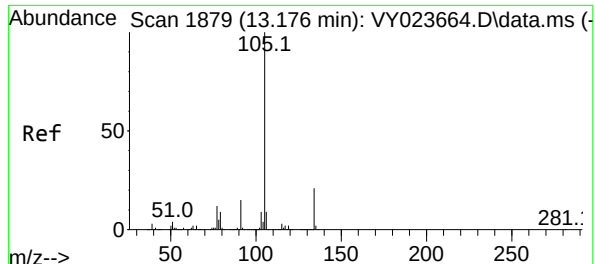
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 9.667 ug/l  
RT: 13.041 min Scan# 1857  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

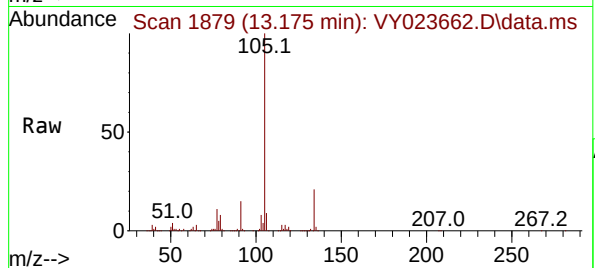
Tgt Ion:105 Resp: 177023  
Ion Ratio Lower Upper  
105 100  
120 46.2 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 9.730 ug/l  
RT: 13.175 min Scan# 1879  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

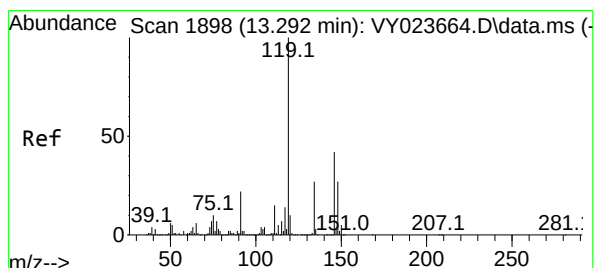
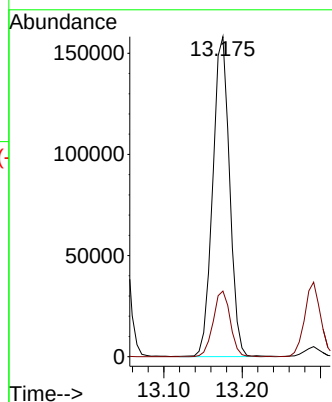
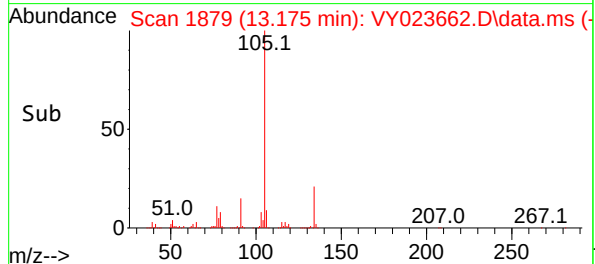
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:105 Resp: 23633  
Ion Ratio Lower Upper  
105 100  
134 20.7 10.4 31.4

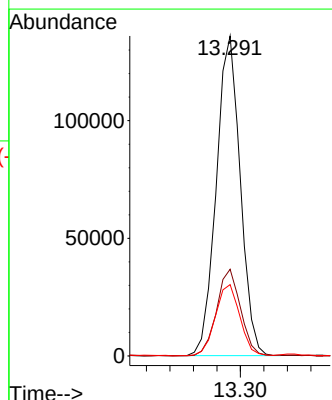
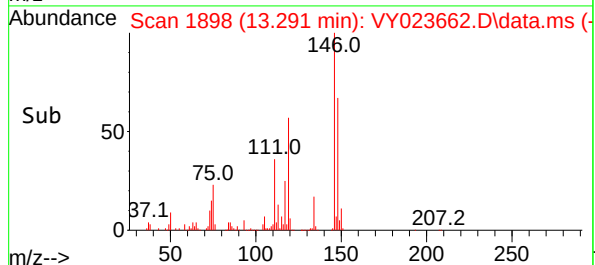
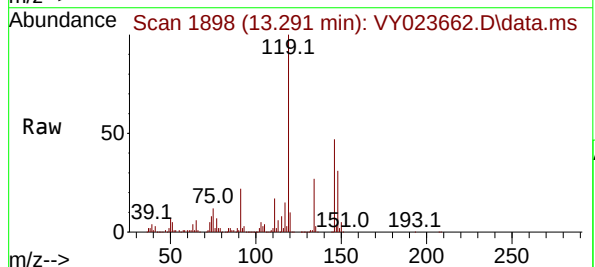
Manual Integrations  
APPROVED

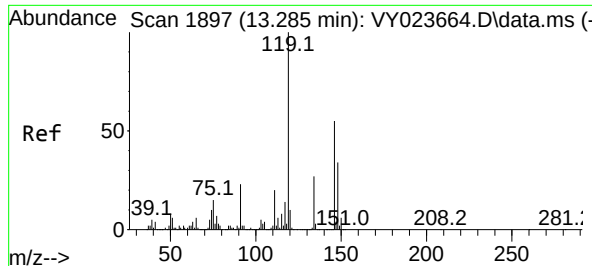
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#86  
p-Isopropyltoluene  
Concen: 9.365 ug/l  
RT: 13.291 min Scan# 1898  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion:119 Resp: 192560  
Ion Ratio Lower Upper  
119 100  
134 27.2 13.4 40.2  
91 22.8 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 9.976 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion:146 Resp: 11590

Ion Ratio Lower Upper

146 100

111 37.7 18.8 56.3

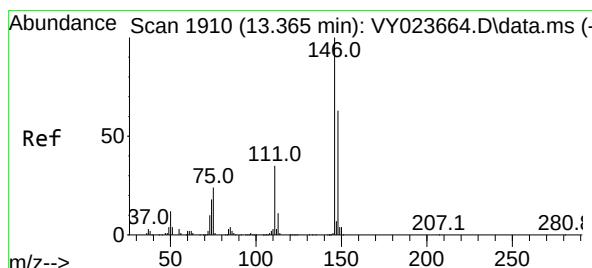
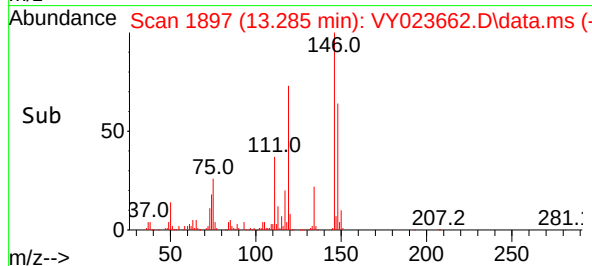
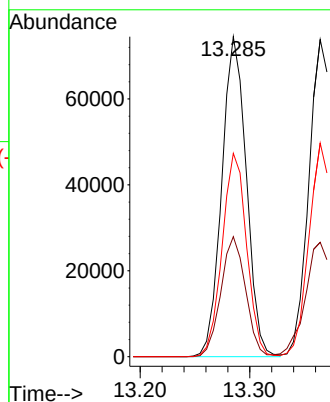
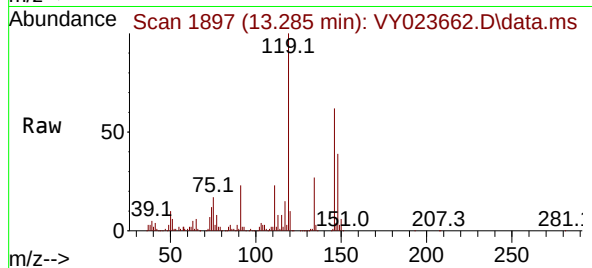
148 63.3 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 10.046 ug/l

RT: 13.364 min Scan# 1910

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

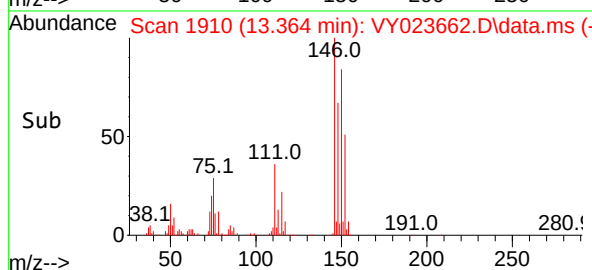
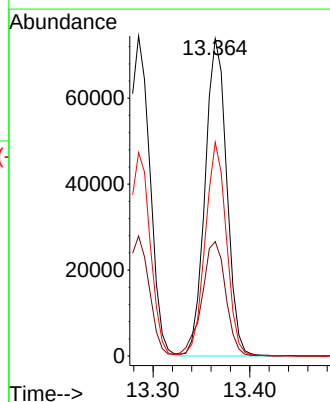
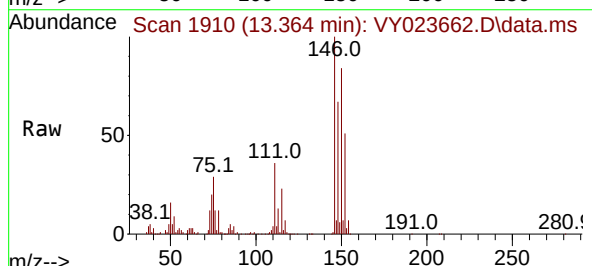
Tgt Ion:146 Resp: 114652

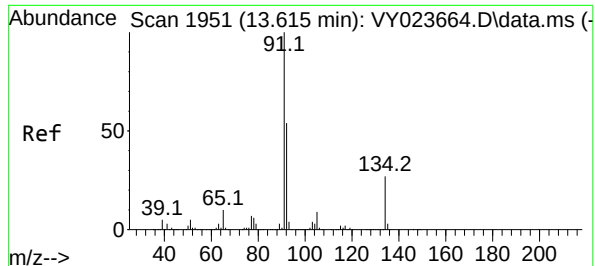
Ion Ratio Lower Upper

146 100

111 39.8 18.3 54.8

148 66.0 31.8 95.3





#89

n-Butylbenzene

Concen: 9.290 ug/l

RT: 13.614 min Scan# 1951

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 166099

Ion Ratio Lower Upper

91 100

92 51.6 26.5 79.4

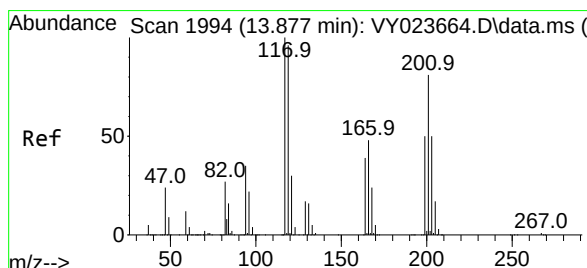
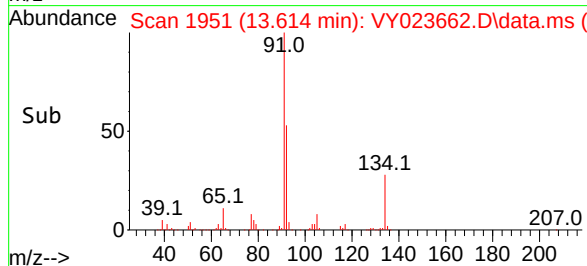
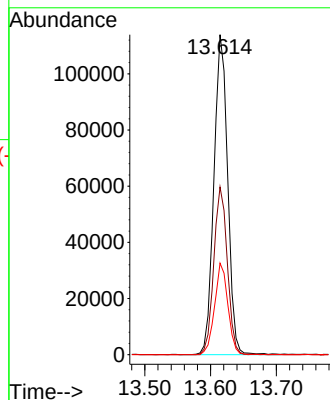
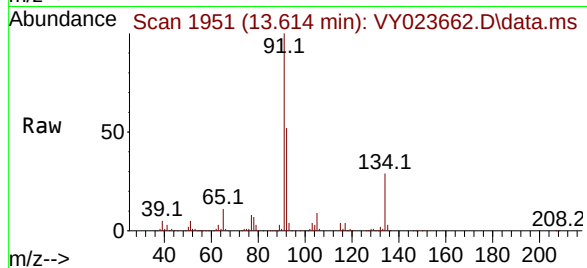
134 27.6 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 10.101 ug/l

RT: 13.876 min Scan# 1994

Delta R.T. -0.000 min

Lab File: VY023662.D

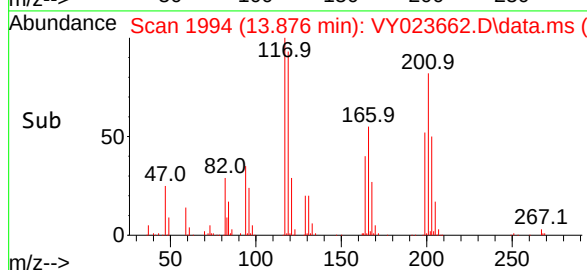
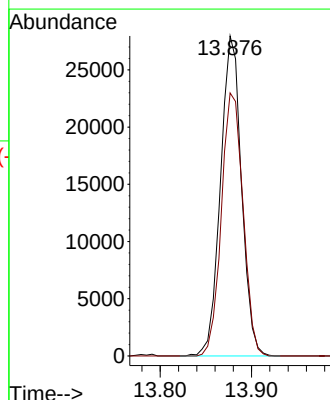
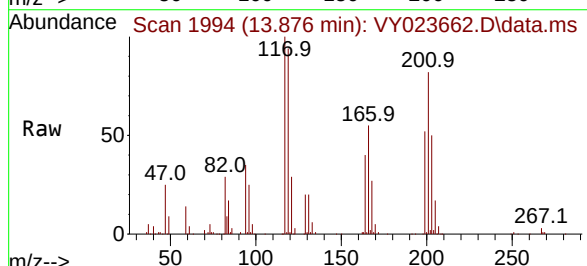
Acq: 04 Nov 2025 09:42

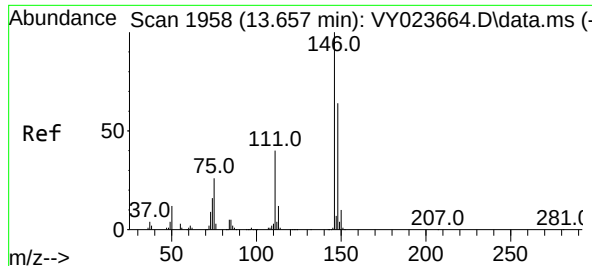
Tgt Ion:117 Resp: 44630

Ion Ratio Lower Upper

117 100

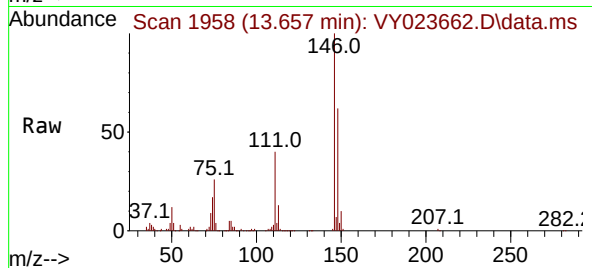
201 84.7 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 9.974 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

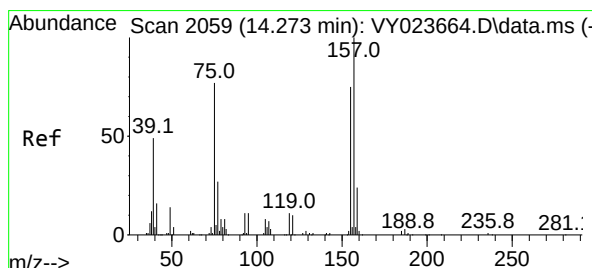
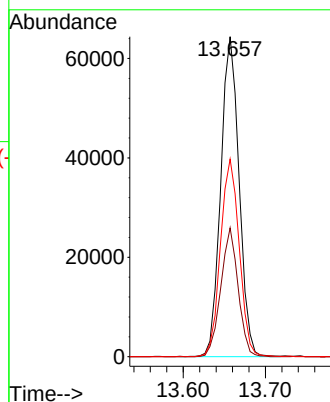
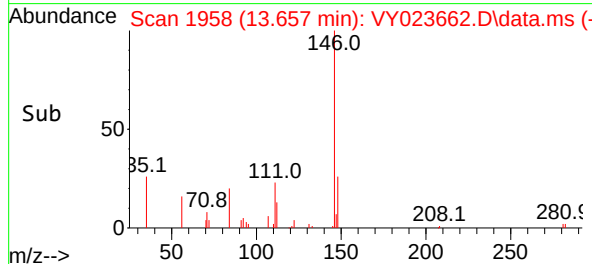
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:146 Resp: 99858  
Ion Ratio Lower Upper  
146 100  
111 38.1 19.5 58.5  
148 63.3 31.9 95.9

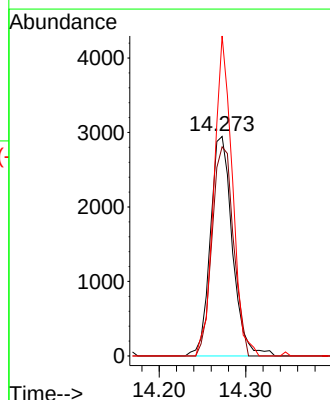
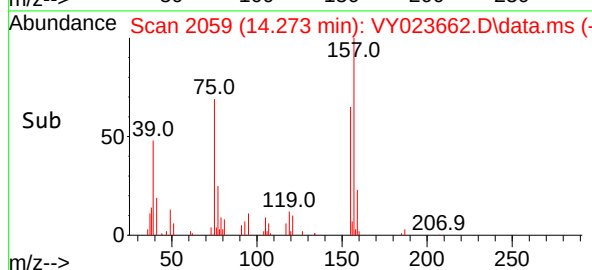
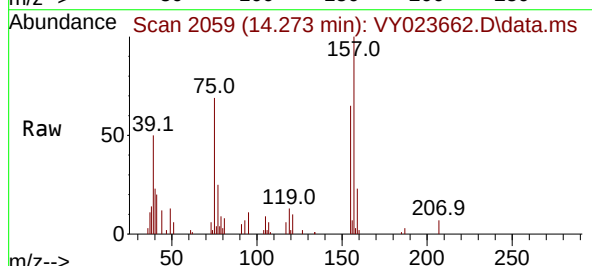
Manual Integrations  
APPROVED

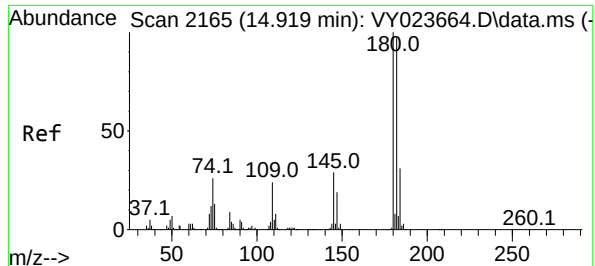
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 9.296 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion: 75 Resp: 5202  
Ion Ratio Lower Upper  
75 100  
155 92.8 49.4 148.2  
157 121.2 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 8.872 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC010

Tgt Ion:180 Resp: 50808

Ion Ratio Lower Upper

180 100

182 93.1 47.5 142.6

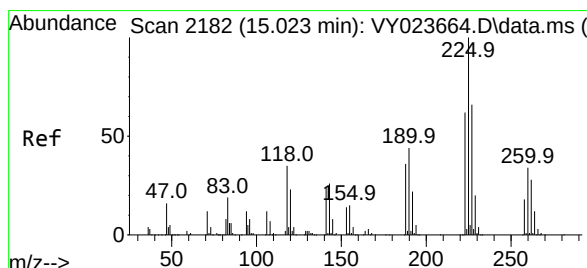
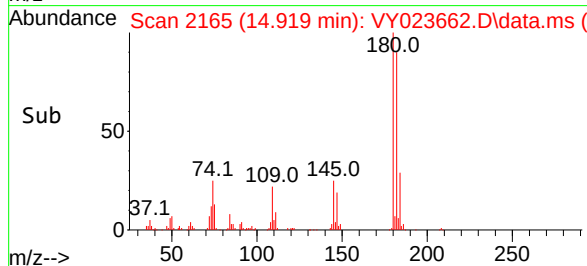
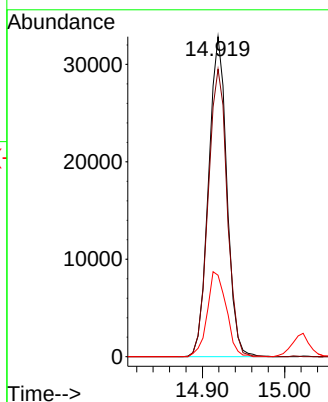
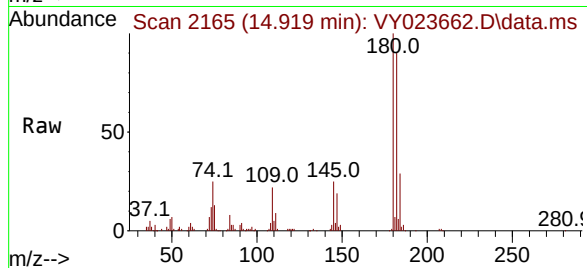
145 27.6 14.4 43.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#94

Hexachlorobutadiene

Concen: 9.999 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. -0.000 min

Lab File: VY023662.D

Acq: 04 Nov 2025 09:42

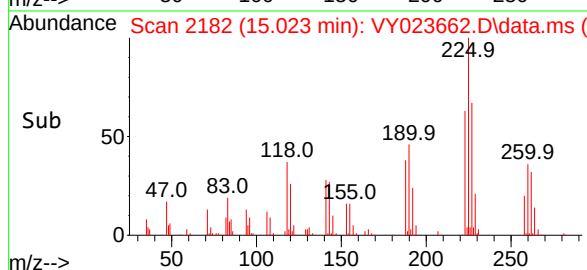
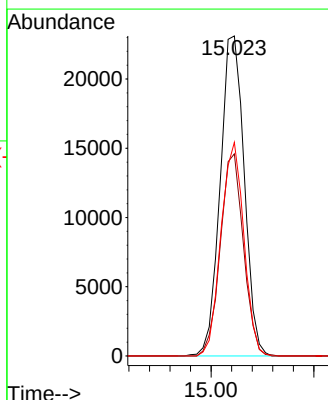
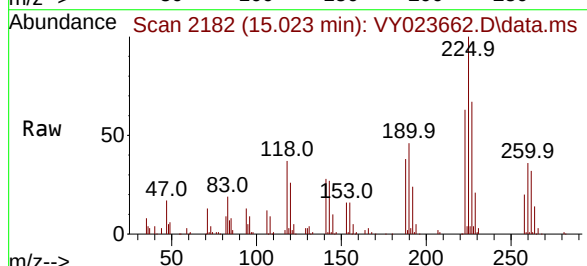
Tgt Ion:225 Resp: 37521

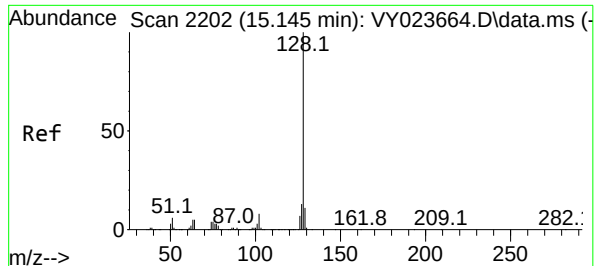
Ion Ratio Lower Upper

225 100

223 60.7 30.8 92.3

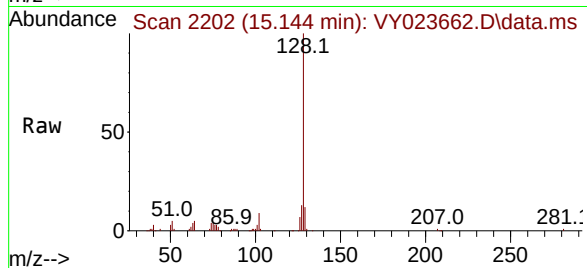
227 63.5 32.0 96.2





#95  
Naphthalene  
Concen: 11.029 ug/l  
RT: 15.144 min Scan# 2202  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

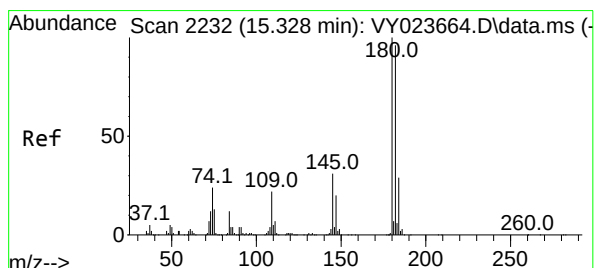
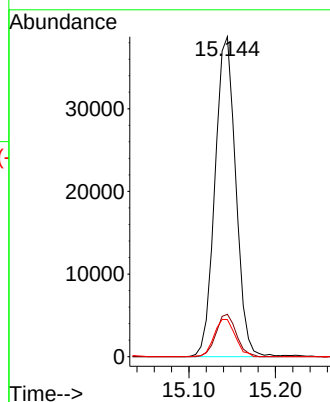
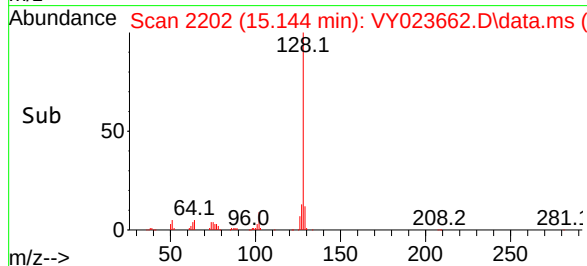
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC010



Tgt Ion:128 Resp: 64530  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.5 15.7  
129 11.9 8.8 13.2

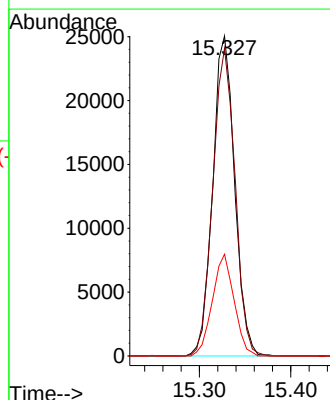
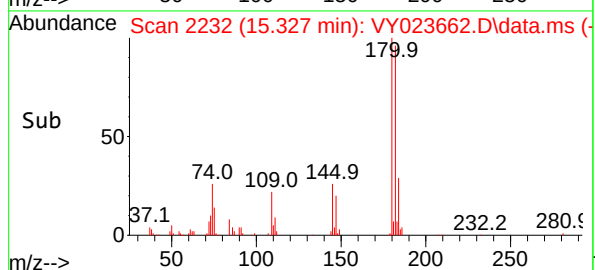
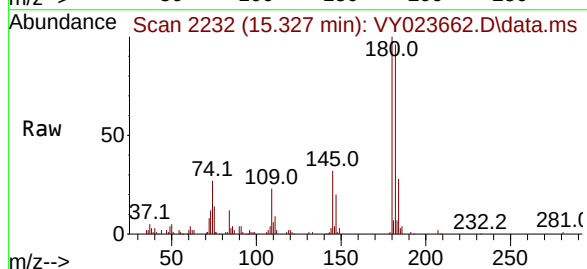
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 8.697 ug/l  
RT: 15.327 min Scan# 2232  
Delta R.T. -0.000 min  
Lab File: VY023662.D  
Acq: 04 Nov 2025 09:42

Tgt Ion:180 Resp: 41611  
Ion Ratio Lower Upper  
180 100  
182 97.6 47.5 142.6  
145 31.4 15.5 46.5





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023663.D  
 Acq On : 04 Nov 2025 10:19  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 545914     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 804973     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 707291     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 367397     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 93111      | 19.995   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 40.000%# |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 100472     | 19.972   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 39.940%# |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 371763     | 19.839   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 39.680%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 121943     | 20.122   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 40.240%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 81455      | 22.731   | ug/l   | 100      |
| 3) Chloromethane             | 2.074          | 50   | 106778     | 21.293   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 138125     | 21.168   | ug/l   | 98       |
| 5) Bromomethane              | 2.592          | 94   | 115694     | 21.078   | ug/l   | 98       |
| 6) Chloroethane              | 2.739          | 64   | 94359      | 20.922   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 193612     | 21.067   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.452          | 74   | 50730      | 20.585   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 102772     | 20.297   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 121925     | 20.392   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.854          | 59   | 29518      | 98.306   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 100782     | 20.662   | ug/l   | 98       |
| 13) Acrolein                 | 3.653          | 56   | 42967      | 111.331  | ug/l   | 99       |
| 14) Allyl chloride           | 4.385          | 41   | 119977     | 20.209   | ug/l   | 100      |
| 15) Acrylonitrile            | 5.061          | 53   | 97947      | 103.998  | ug/l   | 100      |
| 16) Acetone                  | 3.873          | 43   | 125071     | 108.051  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.104          | 76   | 310907     | 20.768   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 63810      | 24.993   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 231292     | 20.450   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.616          | 84   | 112357     | 20.107   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 113402     | 20.620   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.019          | 45   | 275900     | 20.856   | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.964          | 43   | 688746     | 97.564   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 179473     | 20.365   | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 141827     | 105.975  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 162022     | 19.986   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 125435     | 19.971   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.244          | 49   | 71844      | 21.291   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.262          | 42   | 74415      | 104.407  | ug/l   | 97       |
| 30) Chloroform               | 7.421          | 83   | 200613     | 20.402   | ug/l   | 98       |
| 31) Cyclohexane              | 7.707          | 56   | 151188     | 19.699   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 179118     | 20.382   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 137450     | 20.447   | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 51827      | 19.916   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 161201     | 20.353   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.109          | 83   | 172623     | 20.098   | ug/l   | 98       |
| 40) Benzene                  | 8.079          | 78   | 436191     | 20.586   | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023663.D  
 Acq On : 04 Nov 2025 10:19  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

MSVOA\_Y

## ClientSampleId :

VSTDICC020

## Manual Integrations

## APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M

Quant Title : SW846 8260

QLast Update : Wed Nov 05 04:24:21 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 27760m   | 19.999  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 110796   | 20.669  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 98512    | 20.148  | ug/l   | 99       |
| 44) Trichloroethene           | 8.866  | 130  | 124567   | 20.468  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 96481    | 20.632  | ug/l   | 98       |
| 46) Dibromomethane            | 9.231  | 93   | 61391    | 21.188  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.426  | 83   | 151710   | 20.767  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 46988    | 20.341  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 11983    | 404.113 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 273875   | 105.327 | ug/l   | 99       |
| 52) Toluene                   | 10.170 | 92   | 281364   | 20.799  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 125239   | 20.261  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 152830   | 20.637  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 80390    | 20.761  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 83993    | 19.687  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 128976   | 20.999  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 192206   | 98.178  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 203840   | 107.451 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 110009   | 20.677  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 77174    | 21.237  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.646 | 164  | 154270   | 20.955  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 313776   | 20.378  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 109560   | 20.122  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.518 | 91   | 505466   | 20.283  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 408699   | 41.048  | ug/l   | 97       |
| 69) o-Xylene                  | 11.956 | 106  | 186475   | 20.260  | ug/l   | 100      |
| 70) Styrene                   | 11.969 | 104  | 313946   | 20.674  | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 64954    | 20.426  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.255 | 105  | 484626   | 19.723  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.072 | 43   | 76905    | 18.486  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 76650    | 19.531  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 60277m   | 20.272  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 124926   | 19.600  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.597 | 91   | 577151   | 19.968  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 336249   | 20.048  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 401810   | 20.126  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 25299    | 19.229  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 350104   | 20.241  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 352929   | 19.409  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 397002   | 20.077  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 520106   | 19.831  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 441869   | 19.902  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 251903   | 20.080  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 244807   | 19.866  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 375842   | 19.467  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.877 | 117  | 92928    | 19.477  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 218655   | 20.225  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 12260    | 20.289  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 122756   | 19.851  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 79039    | 19.507  | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 174378   | 19.694  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 102582   | 19.855  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023663.D  
Acq On : 04 Nov 2025 10:19  
Operator : SY/MD  
Sample : VSTDICC020  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:27:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

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

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

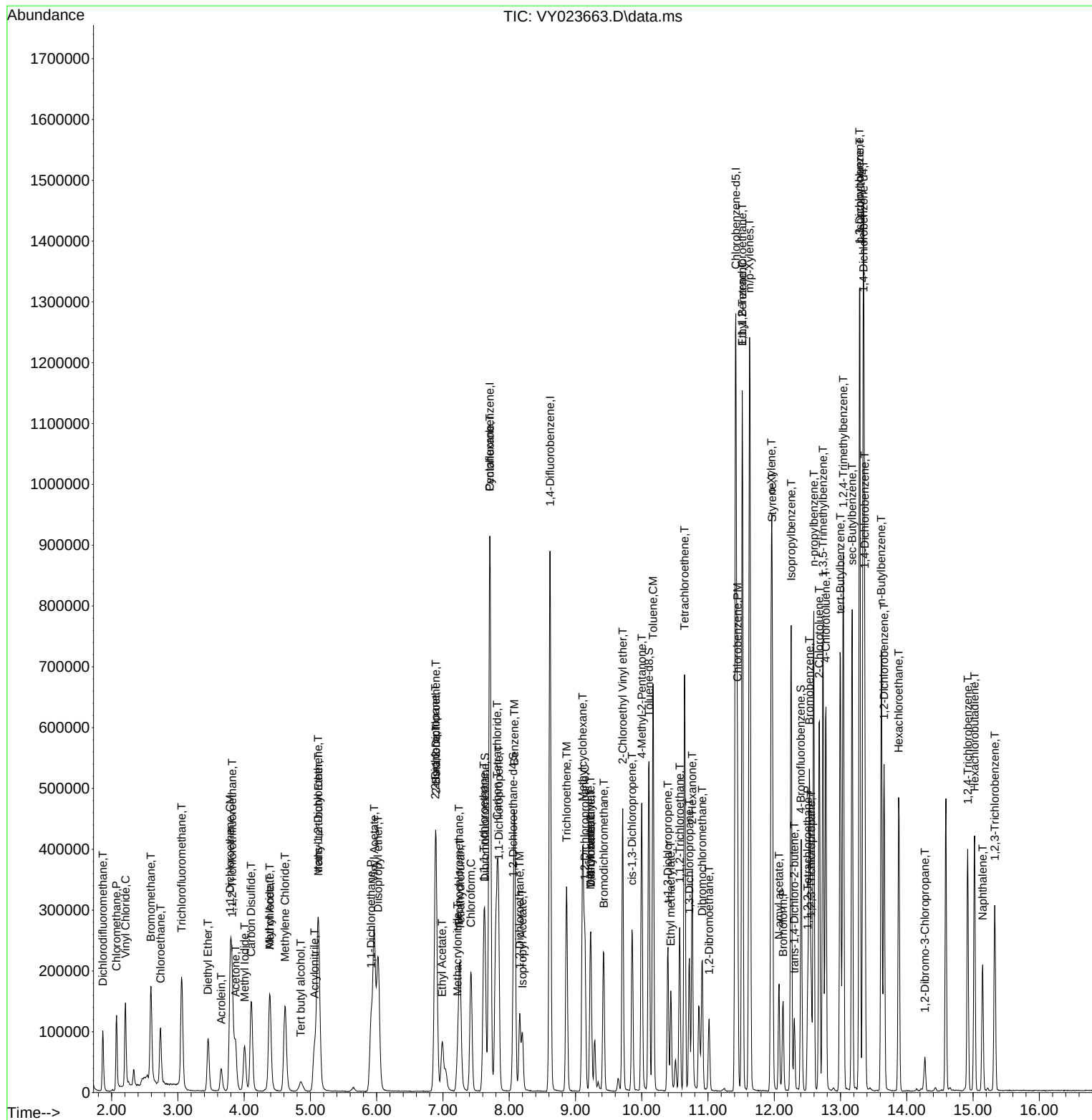
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Operator : SY/MD  
Sample : VSTDICC020  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

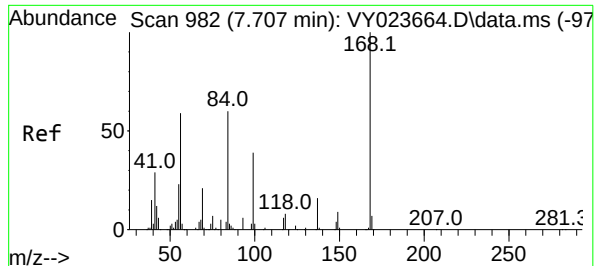
**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VSTDICC020

## Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

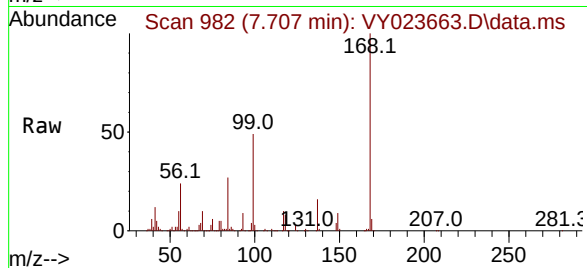
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

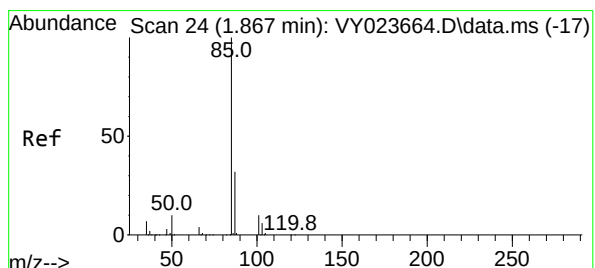
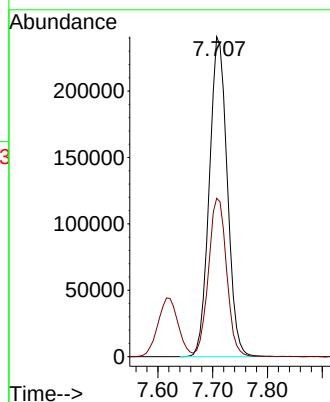
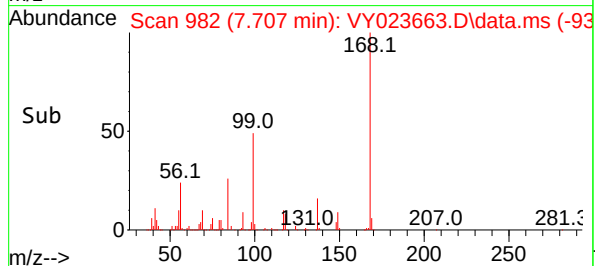
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:168 Resp: 545914  
Ion Ratio Lower Upper  
168 100  
99 49.4 41.0 61.4

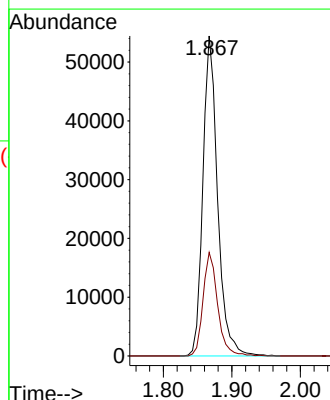
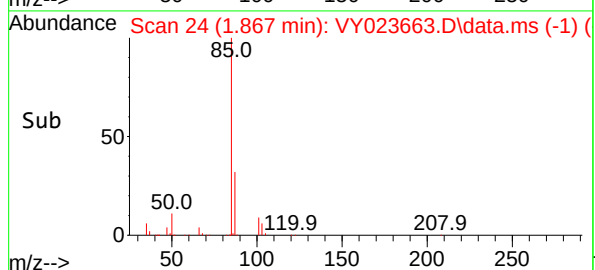
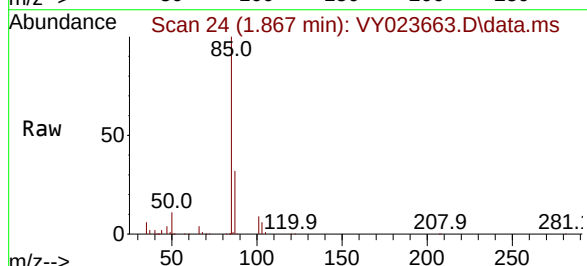
Manual Integrations  
APPROVED

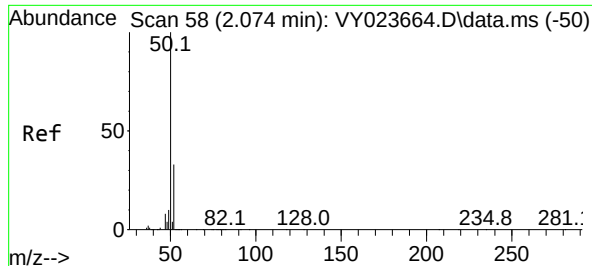
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 22.731 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

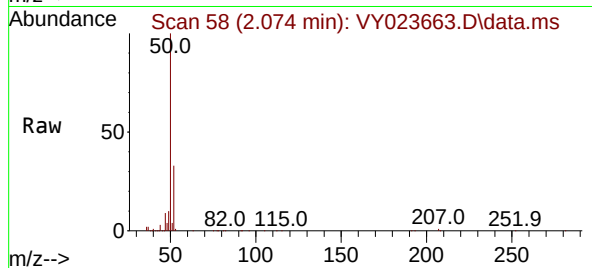
Tgt Ion: 85 Resp: 81455  
Ion Ratio Lower Upper  
85 100  
87 32.3 16.2 48.6





#3  
Chloromethane  
Concen: 21.293 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

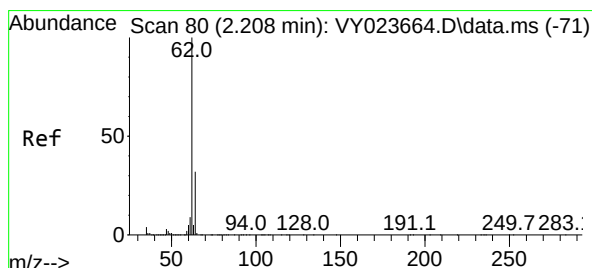
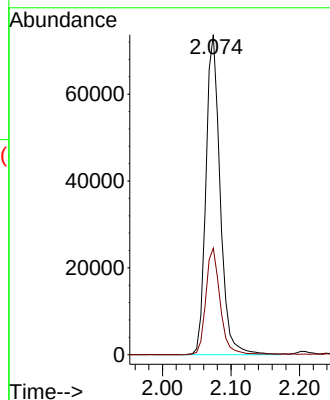
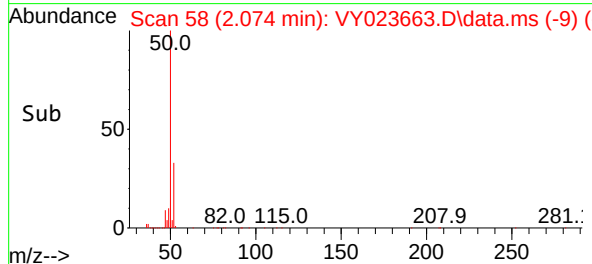
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



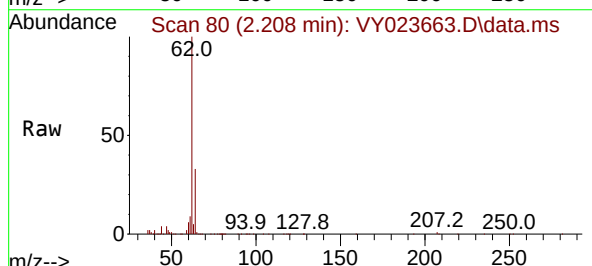
Tgt Ion: 50 Resp: 106778  
Ion Ratio Lower Upper  
50 100  
52 33.3 26.5 39.7

Manual Integrations  
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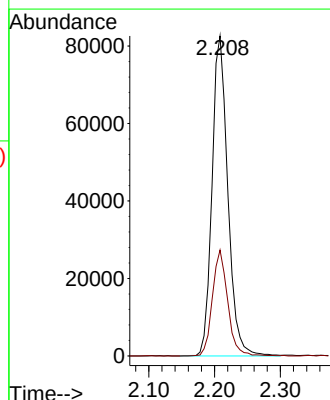
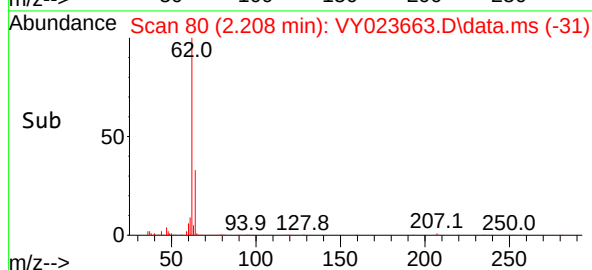
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

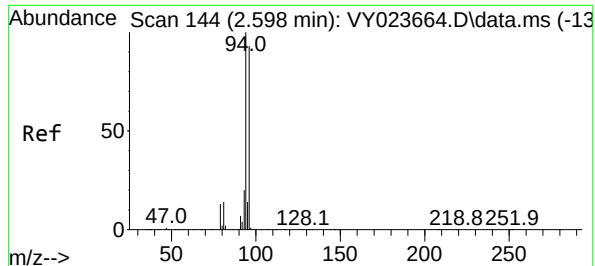


#4  
Vinyl Chloride  
Concen: 21.168 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19



Tgt Ion: 62 Resp: 138125  
Ion Ratio Lower Upper  
62 100  
64 33.1 25.7 38.5





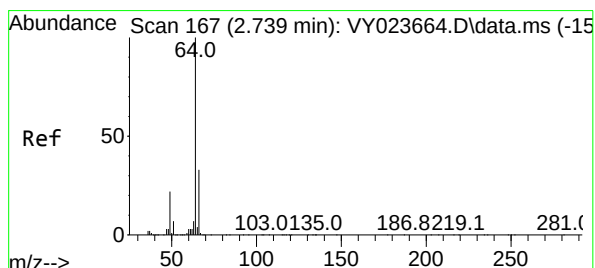
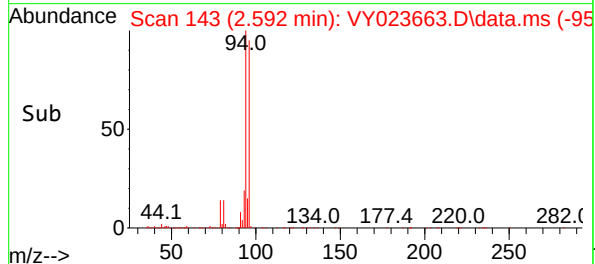
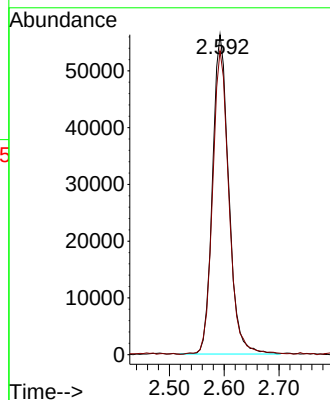
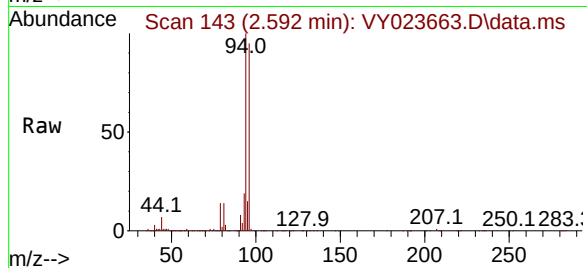
#5  
Bromomethane  
Concen: 21.078 ug/l  
RT: 2.592 min Scan# 144  
Delta R.T. -0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020

Tgt Ion: 94 Resp: 115694  
Ion Ratio Lower Upper  
94 100  
96 95.1 74.4 111.6

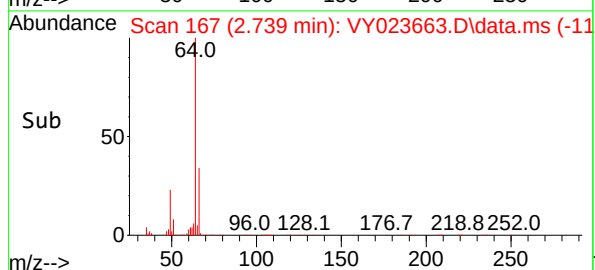
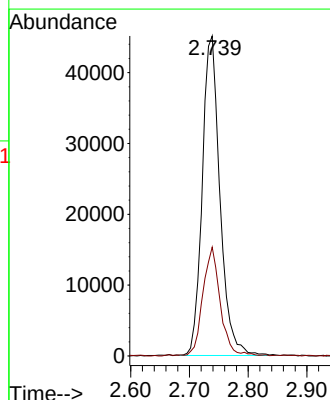
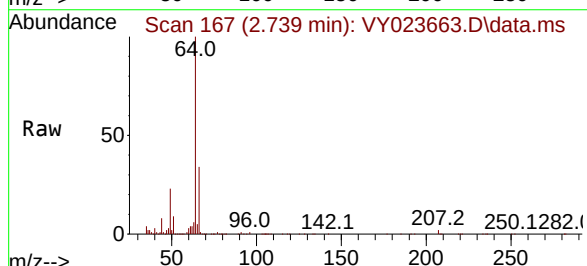
Manual Integrations  
APPROVED

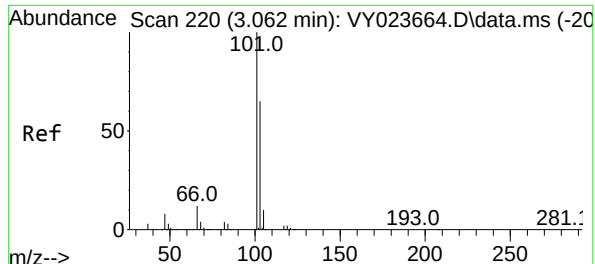
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#6  
Chloroethane  
Concen: 20.922 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

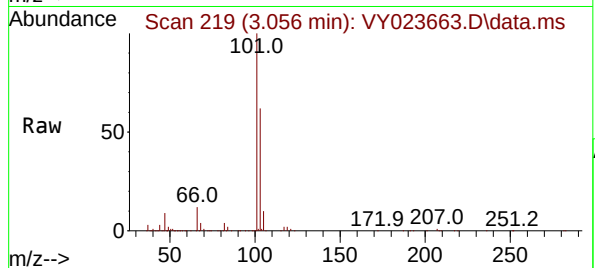
Tgt Ion: 64 Resp: 94359  
Ion Ratio Lower Upper  
64 100  
66 33.9 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 21.067 ug/l  
RT: 3.056 min Scan# 219  
Delta R.T. -0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

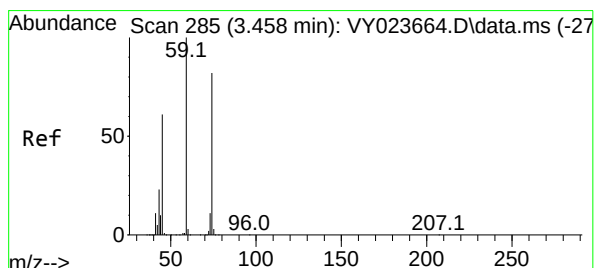
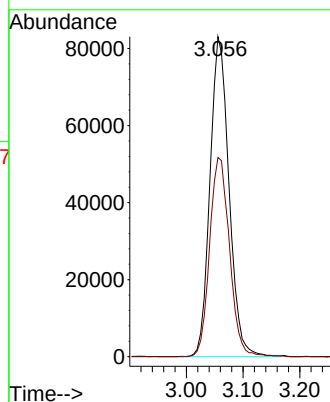
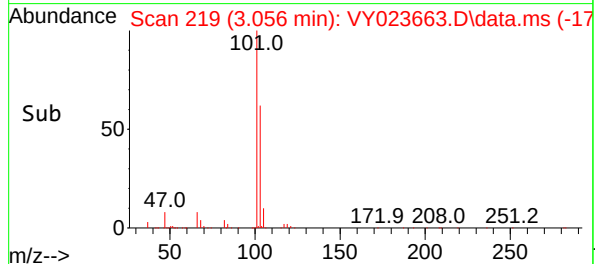
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:101 Resp: 193612  
Ion Ratio Lower Upper  
101 100  
103 62.1 52.1 78.1

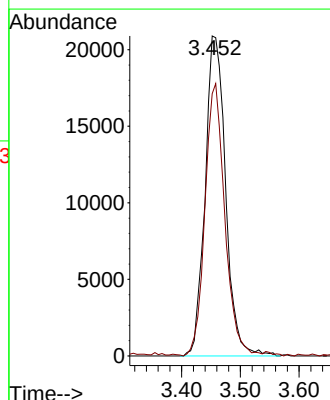
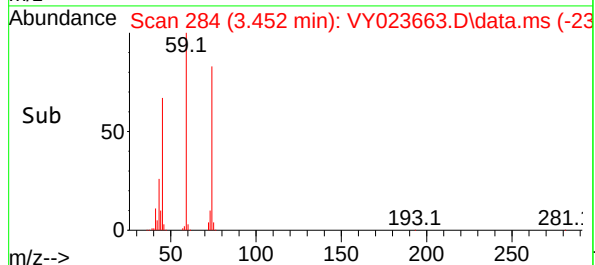
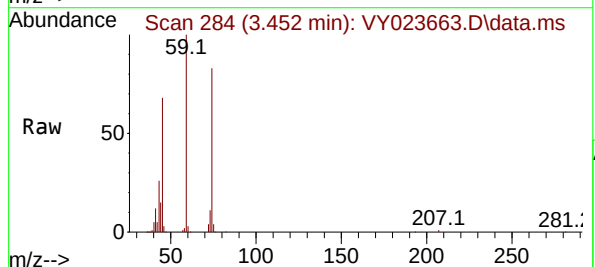
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

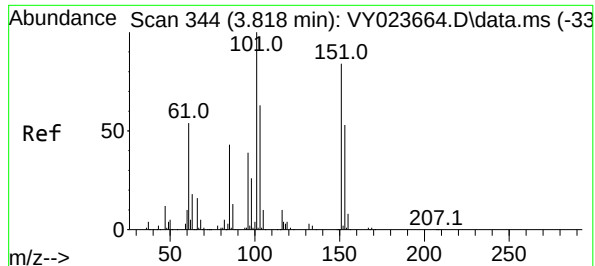


#8  
Diethyl Ether  
Concen: 20.585 ug/l  
RT: 3.452 min Scan# 284  
Delta R.T. -0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 74 Resp: 50730  
Ion Ratio Lower Upper  
74 100  
45 82.5 40.6 121.7







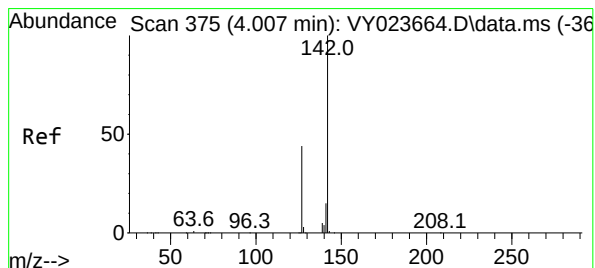
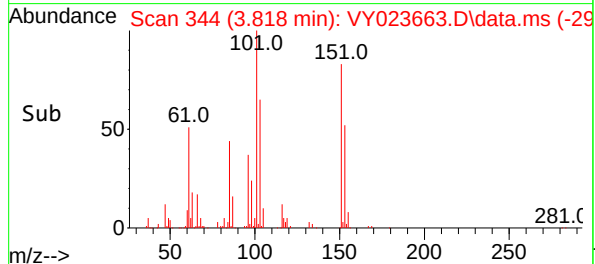
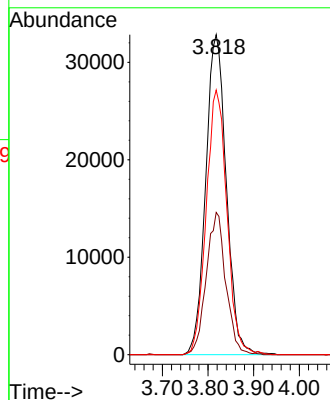
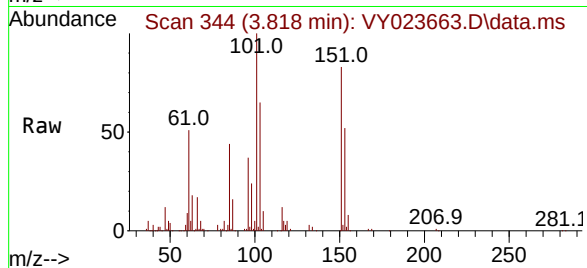
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1,1,2-Trichlorotrifluoroethane  
Concen: 20.297 ug/l  
RT: 3.818 min Scan# 344  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020

Tgt Ion:101 Resp: 102772  
Ion Ratio Lower Upper  
101 100  
85 42.3 34.4 51.6  
151 83.1 65.6 98.4

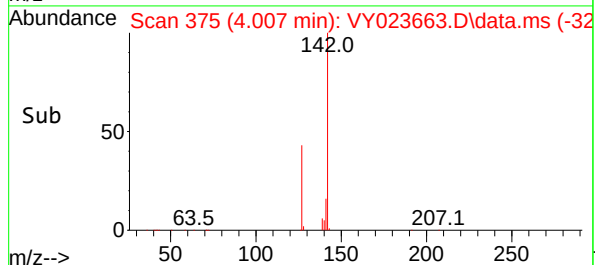
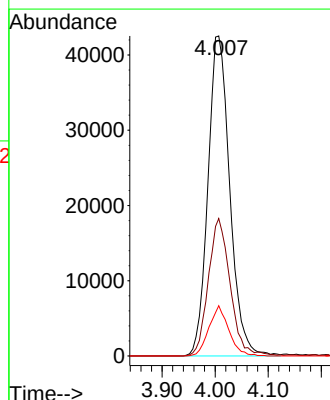
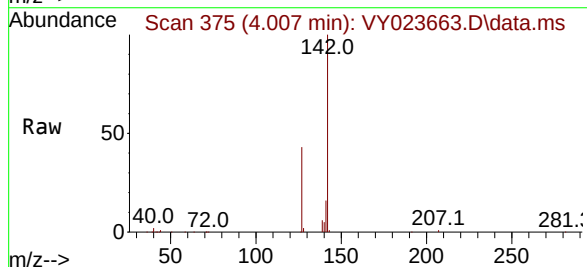
Manual Integrations  
APPROVED

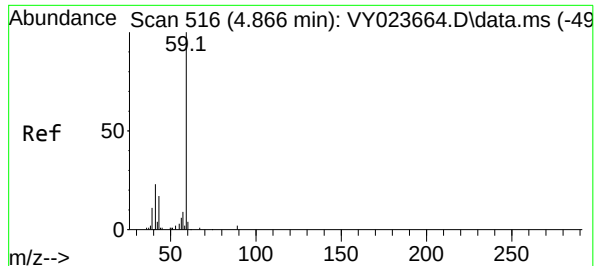
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#10  
Methyl Iodide  
Concen: 20.392 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion:142 Resp: 121925  
Ion Ratio Lower Upper  
142 100  
127 42.9 34.6 51.8  
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 98.306 ug/l

RT: 4.854 min Scan# 516

Delta R.T. -0.012 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 29518

Ion Ratio Lower Upper

59 100

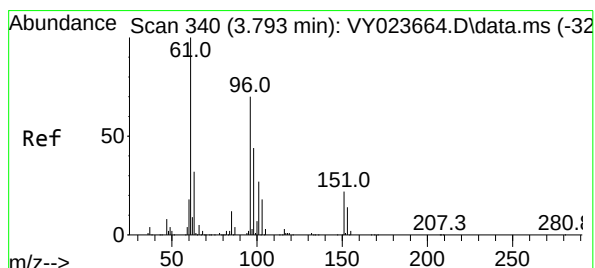
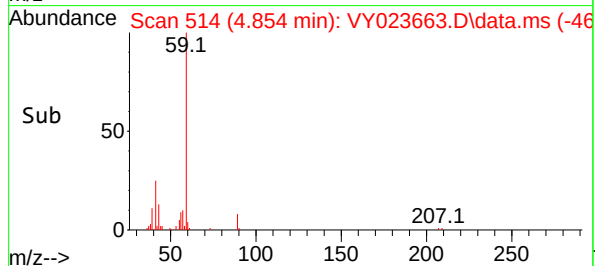
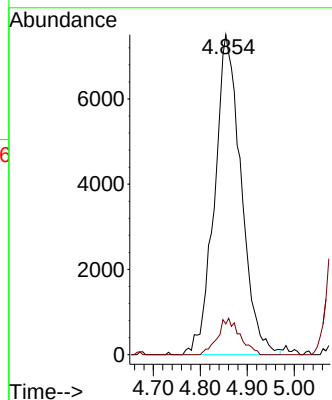
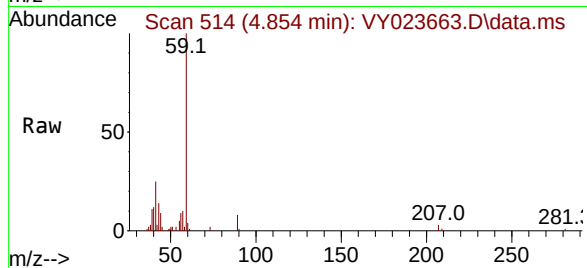
57 9.5 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 20.662 ug/l

RT: 3.787 min Scan# 339

Delta R.T. -0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

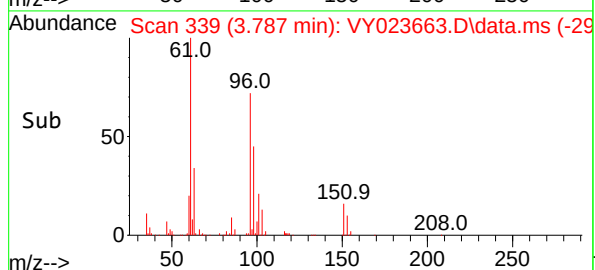
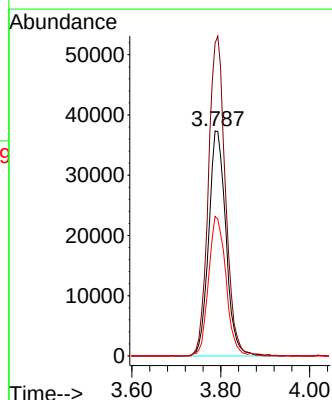
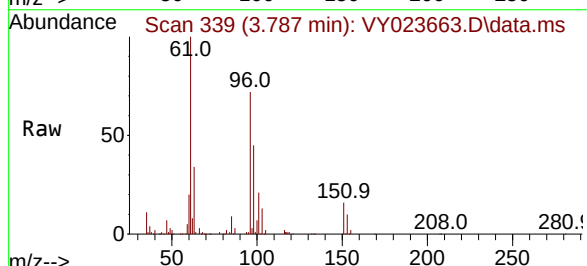
Tgt Ion: 96 Resp: 100782

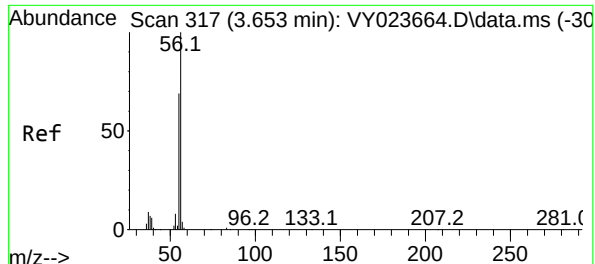
Ion Ratio Lower Upper

96 100

61 138.9 114.0 171.0

98 62.0 50.2 75.2





#13

Acrolein

Concen: 111.331 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 4296

Ion Ratio Lower Upper

56 100

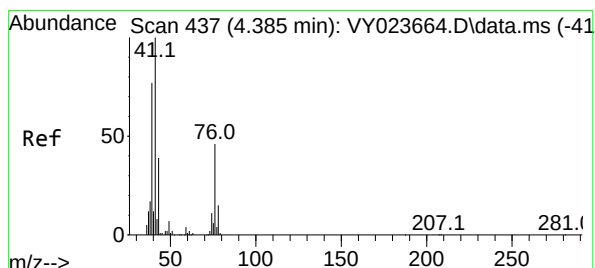
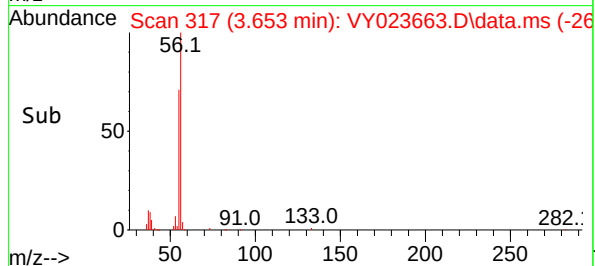
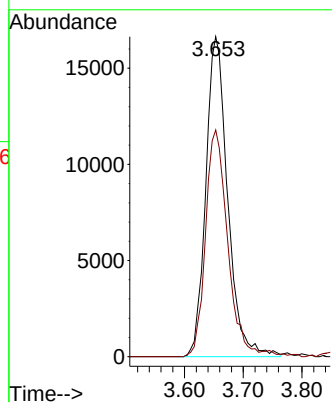
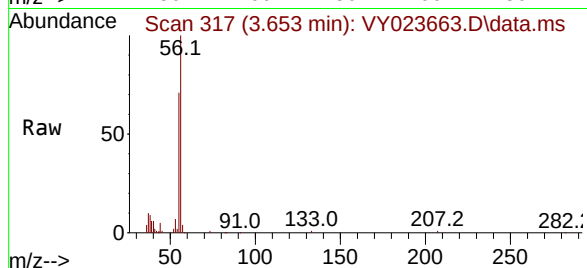
55 71.5 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 20.209 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

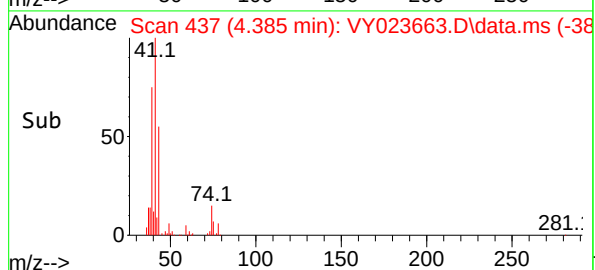
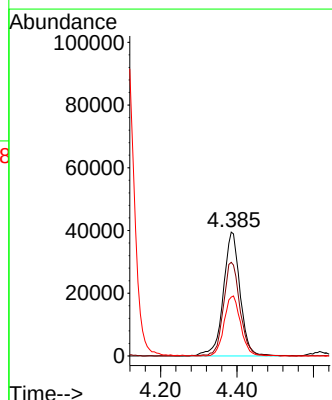
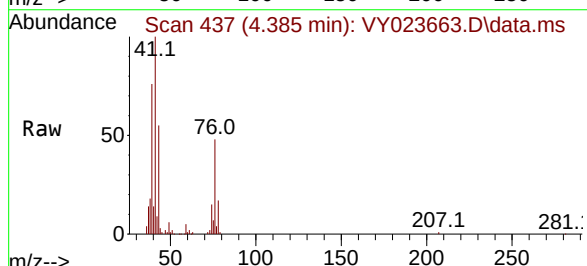
Tgt Ion: 41 Resp: 119977

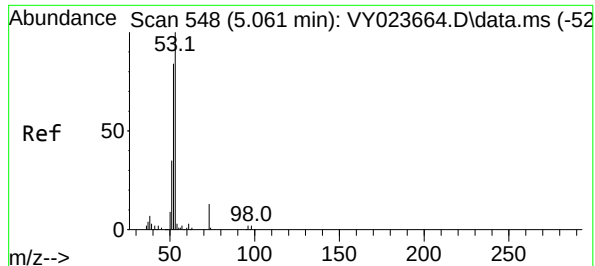
Ion Ratio Lower Upper

41 100

39 75.1 60.4 90.6

76 47.6 38.0 57.0





#15

Acrylonitrile

Concen: 103.998 ug/l

RT: 5.061 min Scan# 54

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

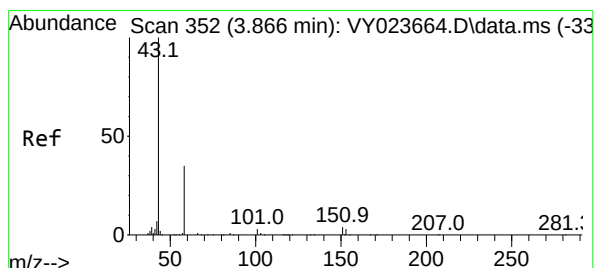
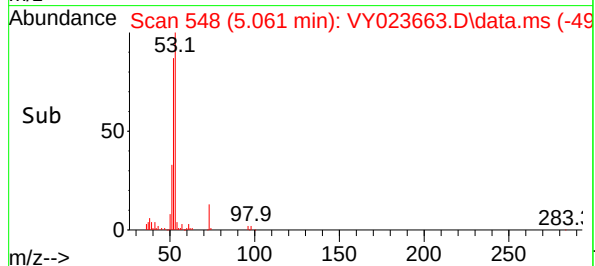
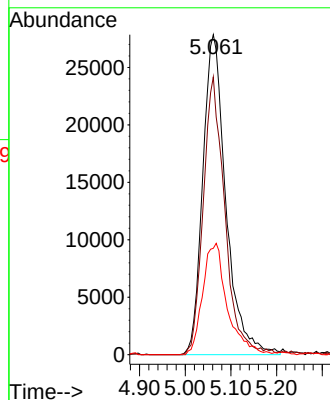
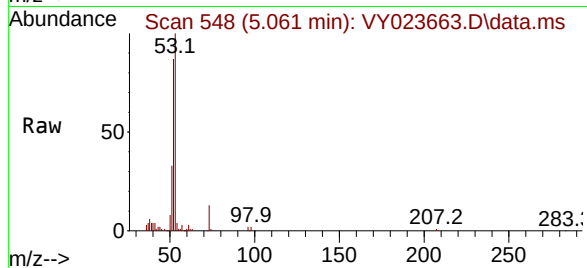
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 53    | Resp: | 9794  |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 81.0  | 64.9  | 97.3  |
| 51       | 36.9  | 29.4  | 44.0  |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 108.051 ug/l

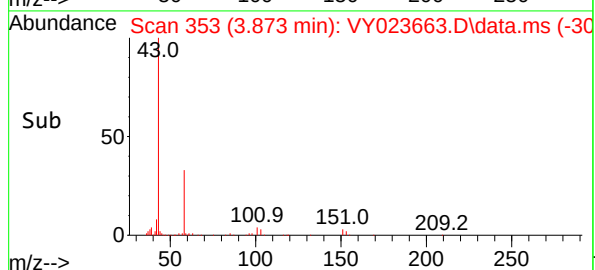
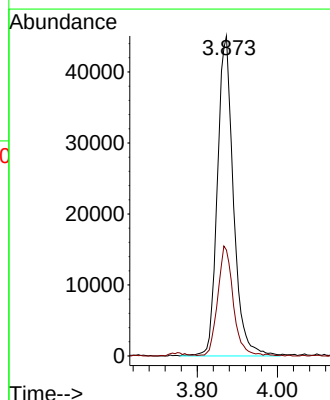
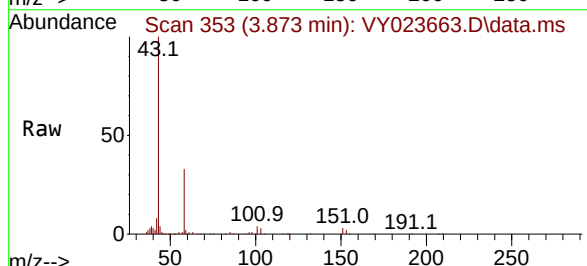
RT: 3.873 min Scan# 353

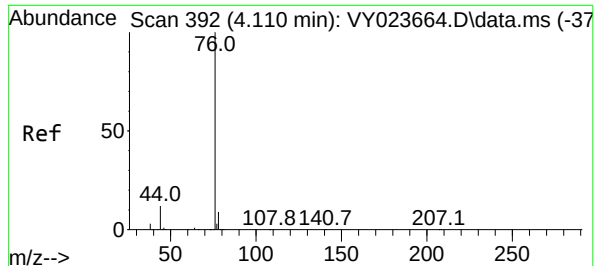
Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 125071 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 32.9  | 28.2  | 42.4   |





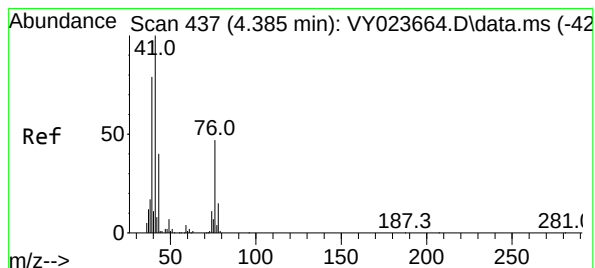
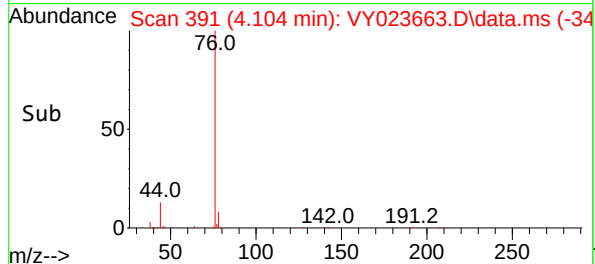
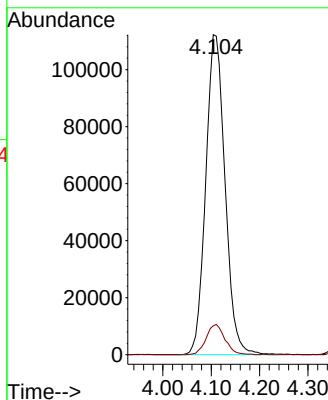
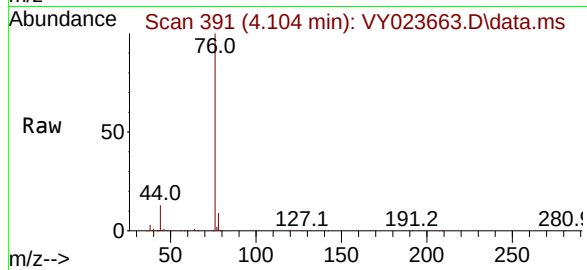
#17  
Carbon Disulfide  
Concen: 20.768 ug/l  
RT: 4.104 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020

Tgt Ion: 76 Resp: 31090  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7

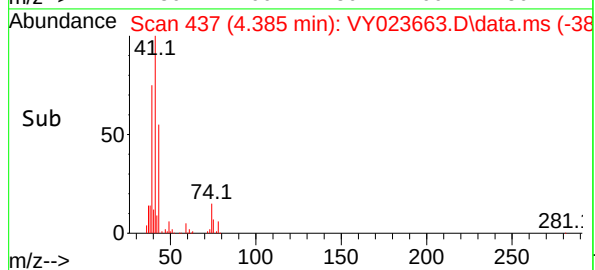
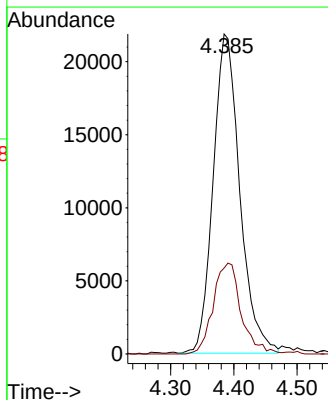
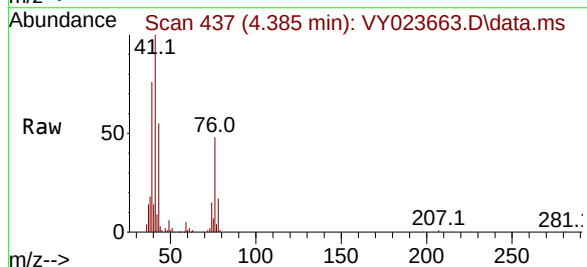
Manual Integrations  
APPROVED

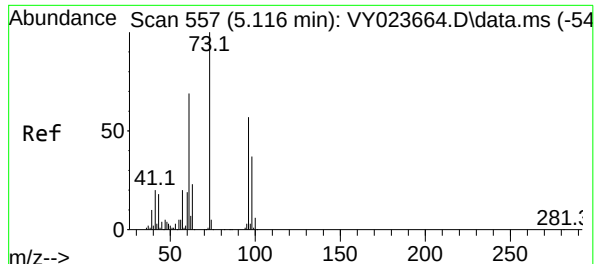
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#18  
Methyl Acetate  
Concen: 24.993 ug/l  
RT: 4.385 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 43 Resp: 63810  
Ion Ratio Lower Upper  
43 100  
74 29.8 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 20.450 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 23129

Ion Ratio Lower Upper

73 100

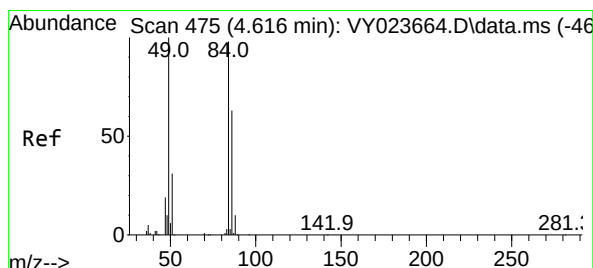
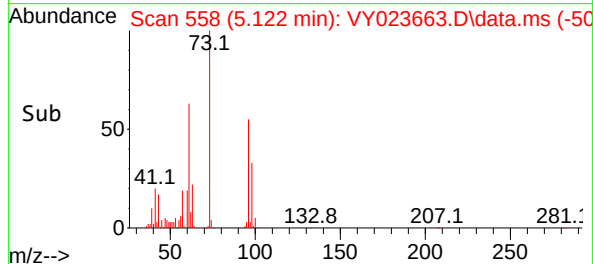
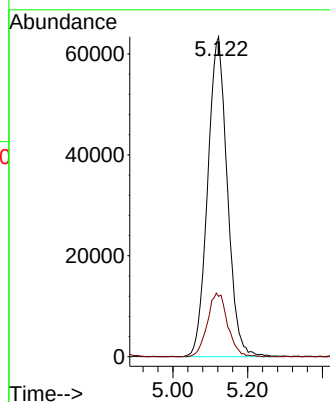
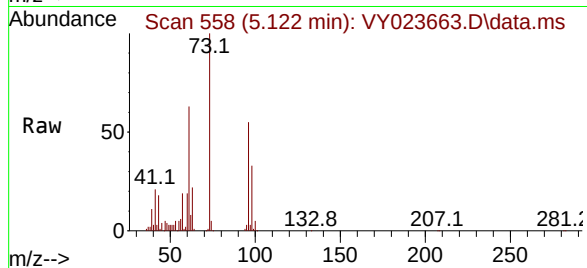
57 18.8 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 20.107 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Tgt Ion: 84 Resp: 112357

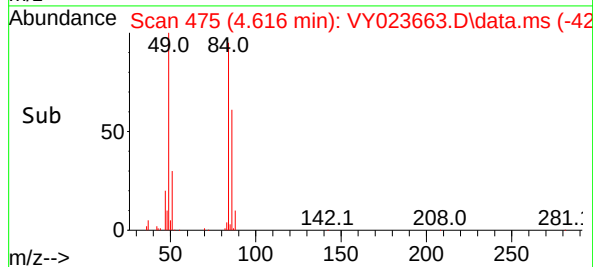
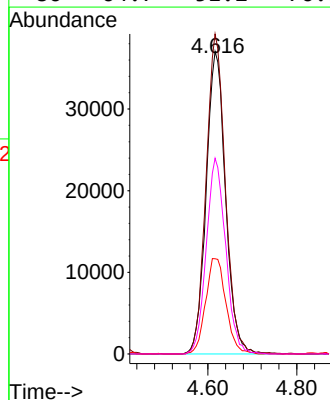
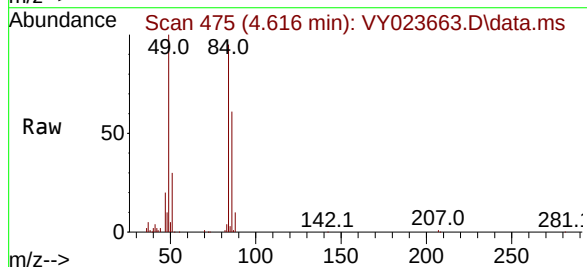
Ion Ratio Lower Upper

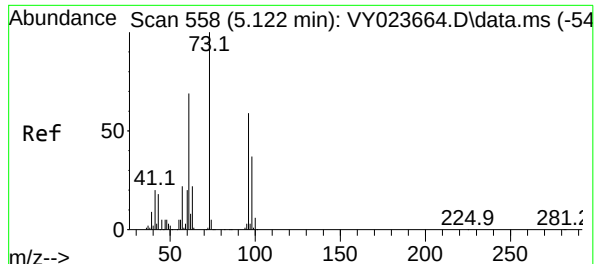
84 100

49 105.8 81.5 122.3

51 31.4 25.5 38.3

86 64.7 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 20.620 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 11340

Ion Ratio Lower Upper

96 100

61 119.1 93.3 139.9

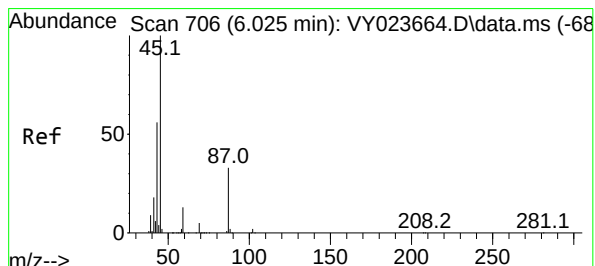
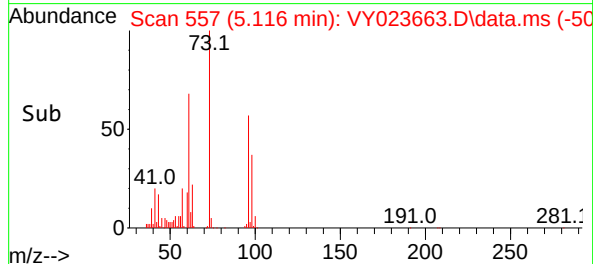
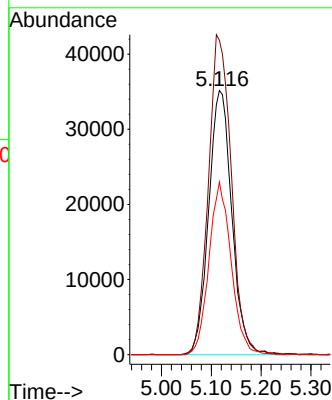
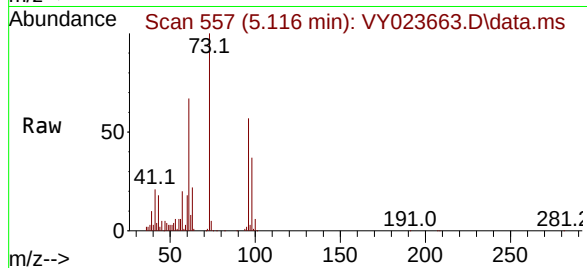
98 65.4 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 20.856 ug/l

RT: 6.019 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Tgt Ion: 45 Resp: 275900

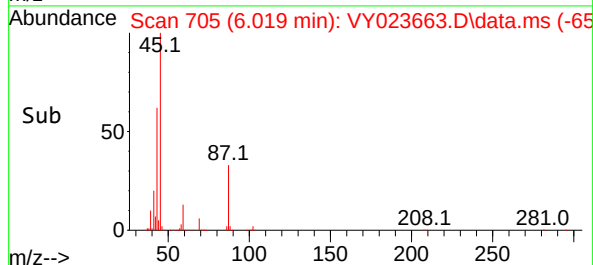
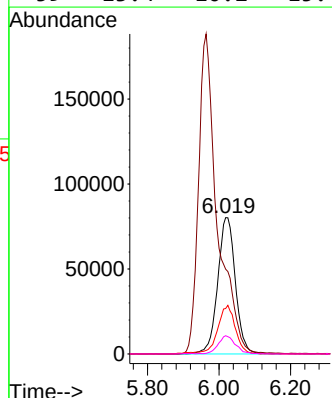
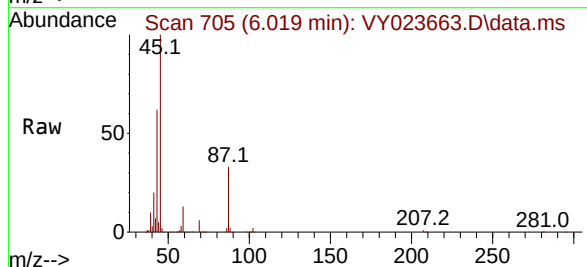
Ion Ratio Lower Upper

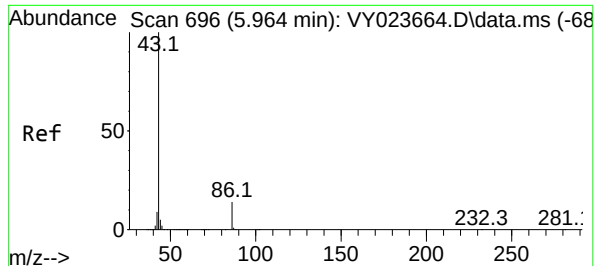
45 100

43 62.1 44.7 67.1

87 33.3 27.2 40.8

59 13.4 10.2 15.4





#23

Vinyl Acetate

Concen: 97.564 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 688740

Ion Ratio Lower Upper

43

100

86

13.4

10.9

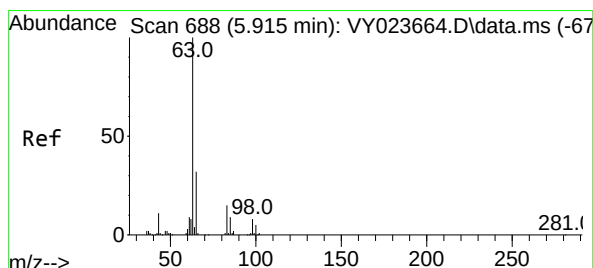
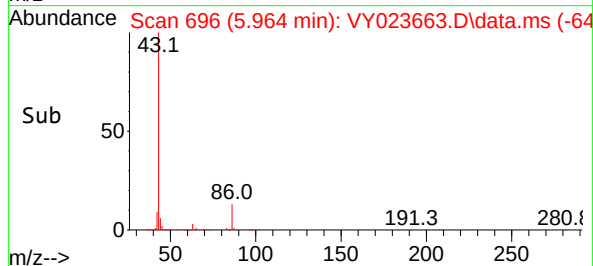
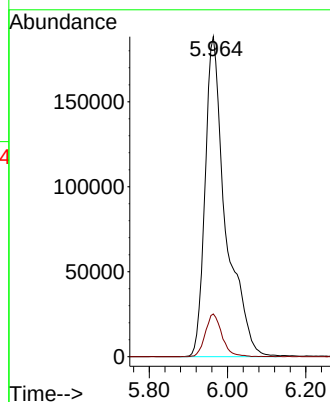
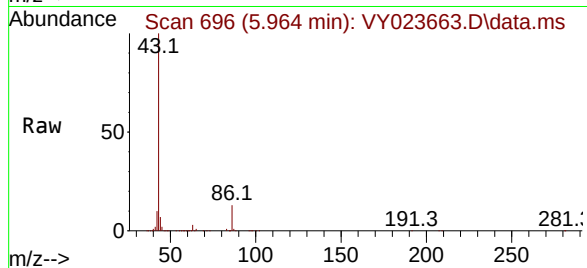
16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 20.365 ug/l

RT: 5.915 min Scan# 688

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Tgt Ion: 63 Resp: 179473

Ion Ratio Lower Upper

63

100

98

8.0

4.0

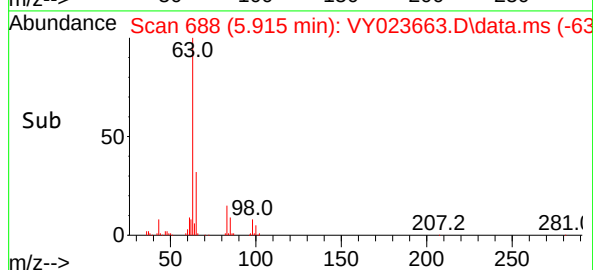
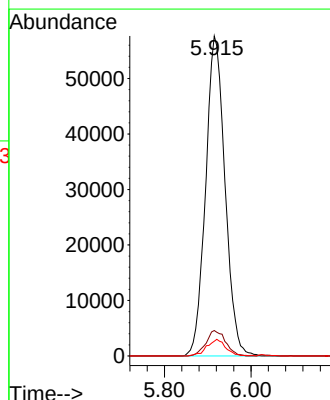
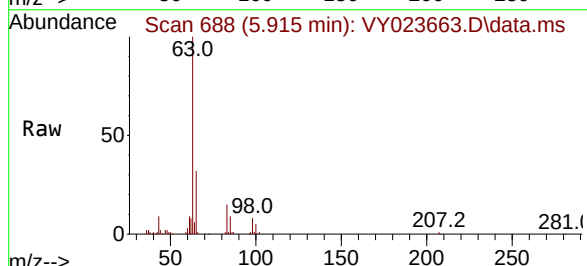
11.9

100

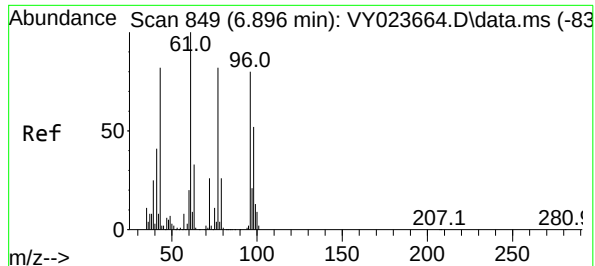
4.6

2.6

7.8







#25

2-Butanone

Concen: 105.975 ug/l

RT: 6.896 min Scan# 84

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 14182

Ion Ratio Lower Upper

43 100

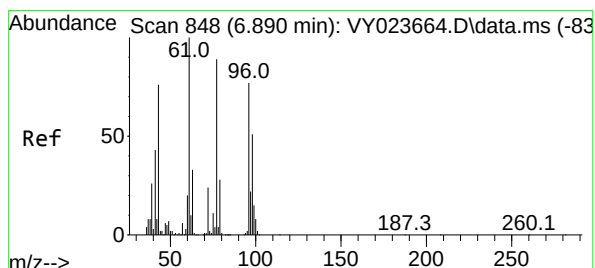
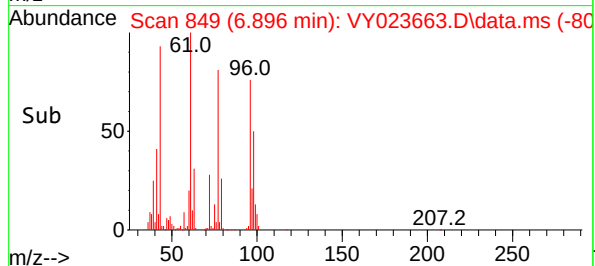
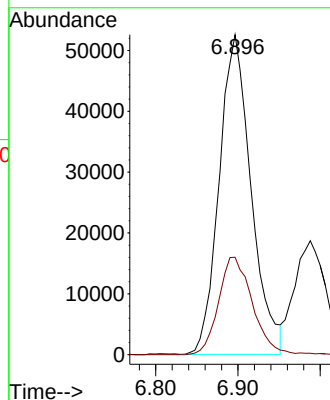
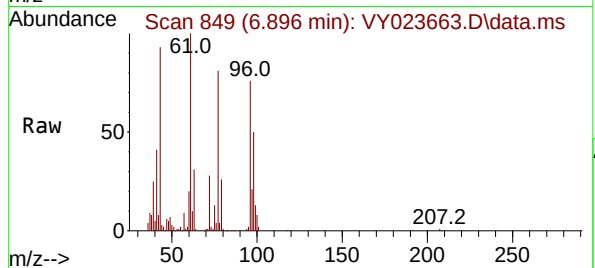
72 30.5 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 19.986 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023663.D

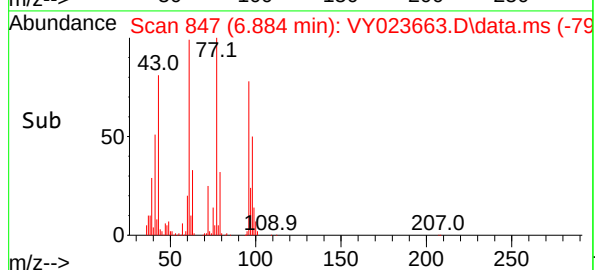
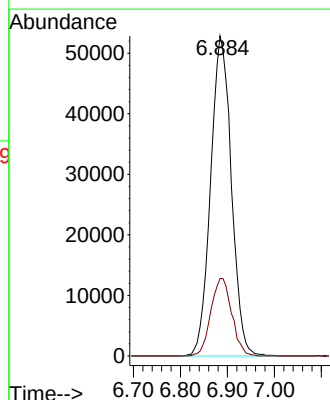
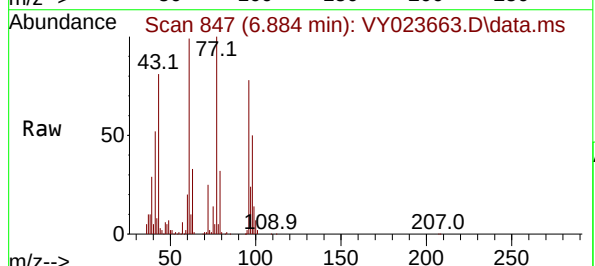
Acq: 04 Nov 2025 10:19

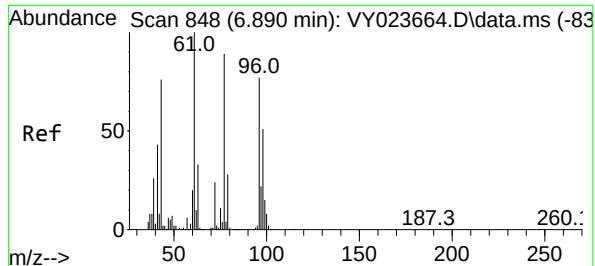
Tgt Ion: 77 Resp: 162022

Ion Ratio Lower Upper

77 100

97 24.4 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 19.971 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 12543

Ion Ratio Lower Upper

96 100

61 129.3 0.0 255.0

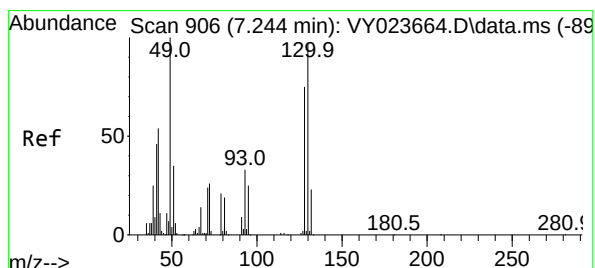
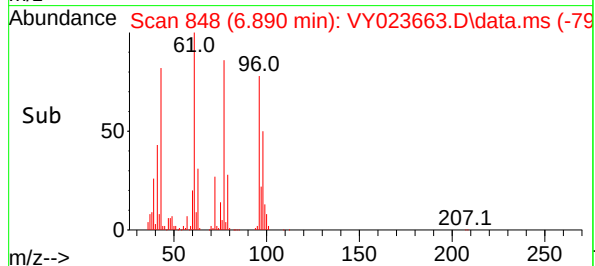
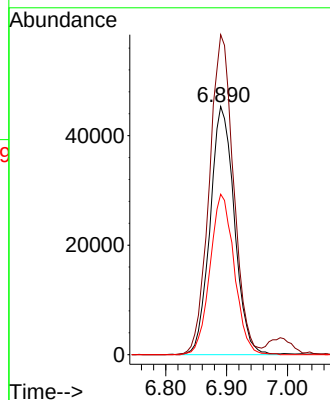
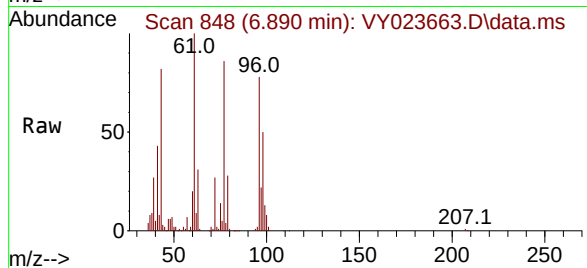
98 64.6 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 21.291 ug/l

RT: 7.244 min Scan# 906

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

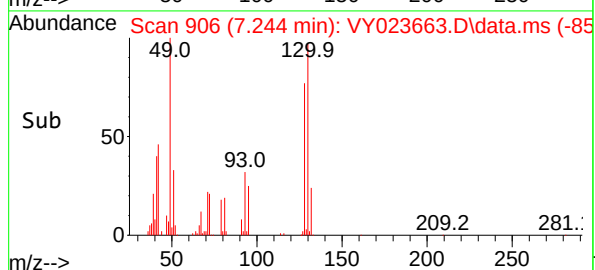
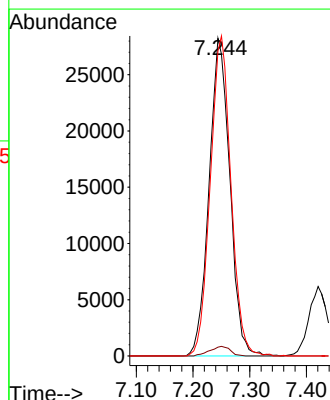
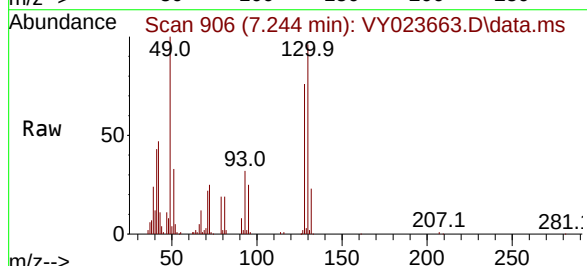
Tgt Ion: 49 Resp: 71844

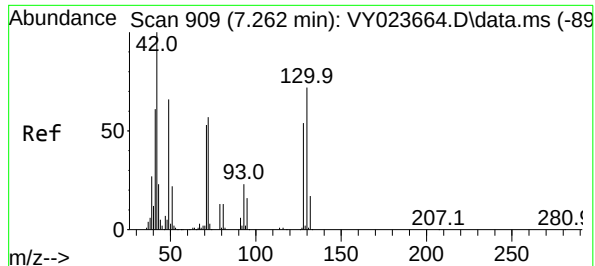
Ion Ratio Lower Upper

49 100

129 2.9 0.0 5.0

130 99.9 80.1 120.1





#29

Tetrahydrofuran

Concen: 104.407 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

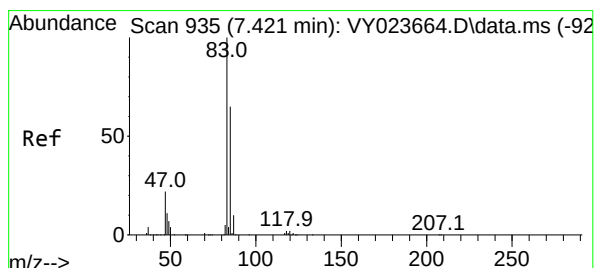
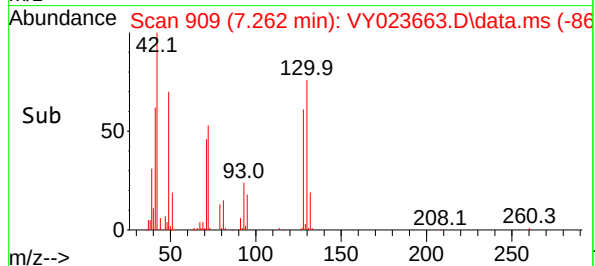
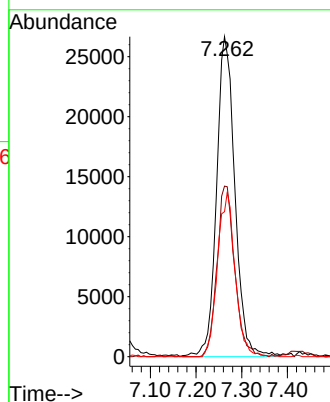
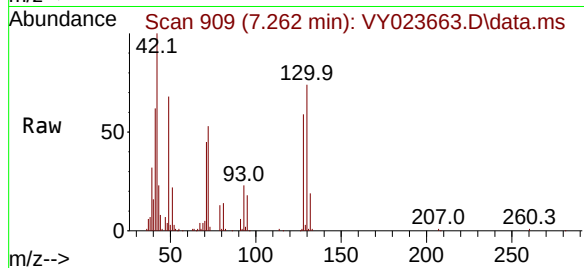
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 7441  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 51.4  | 43.4  | 65.2  |
| 71       | 49.3  | 40.7  | 61.1  |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 20.402 ug/l

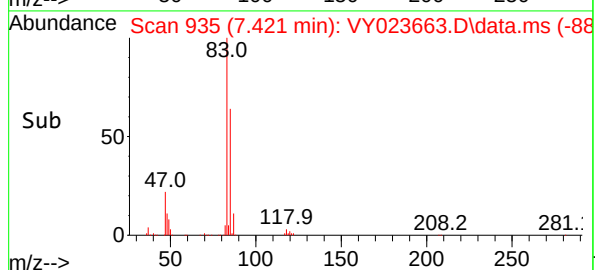
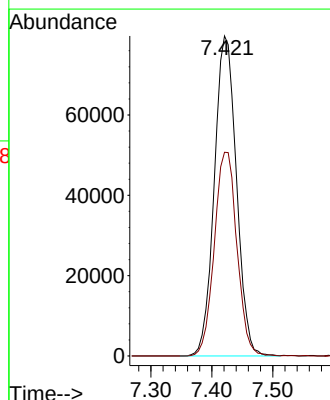
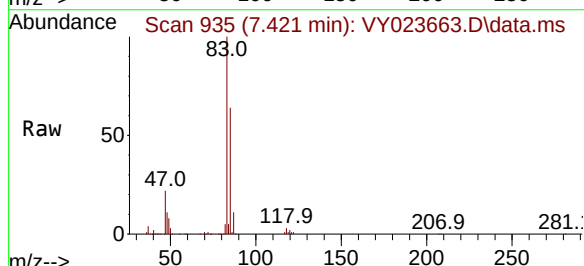
RT: 7.421 min Scan# 935

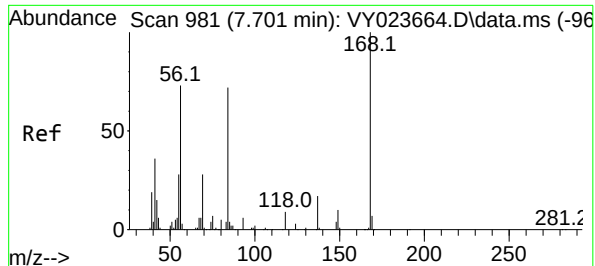
Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 200613 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.7  | 52.1  | 78.1   |





#31

Cyclohexane

Concen: 19.699 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 15118

Ion Ratio Lower Upper

56 100

69 41.5 30.5 45.7

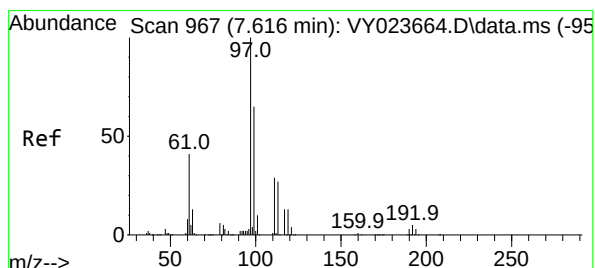
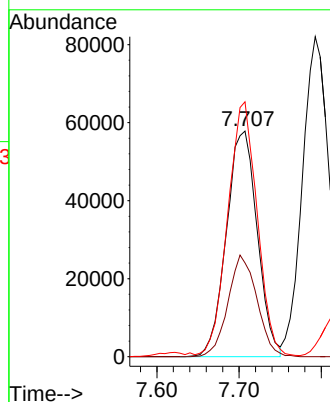
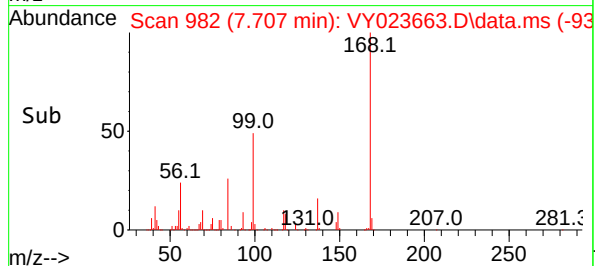
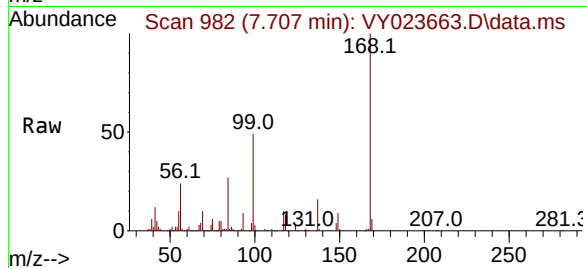
84 111.4 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 20.382 ug/l

RT: 7.616 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

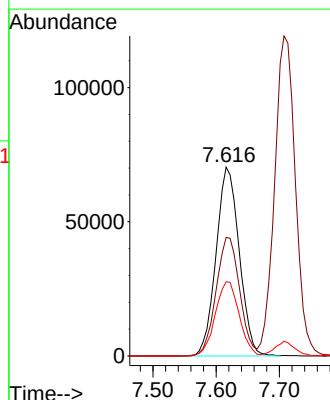
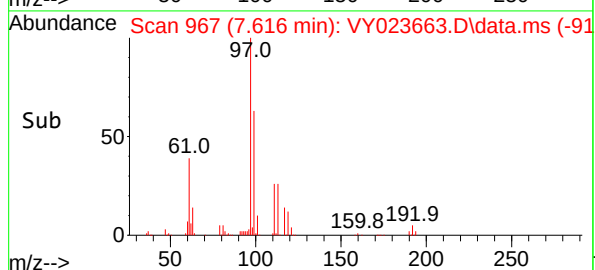
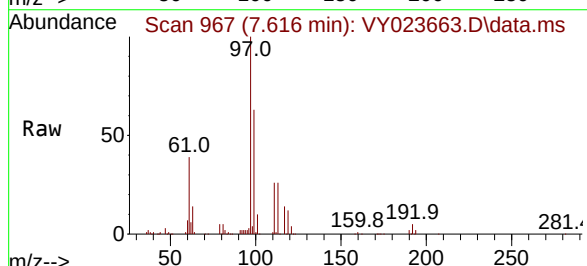
Tgt Ion: 97 Resp: 179118

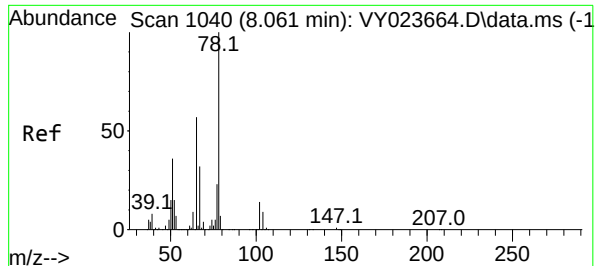
Ion Ratio Lower Upper

97 100

99 63.8 51.5 77.3

61 40.5 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 19.995 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 9311

Ion Ratio Lower Upper

65 100

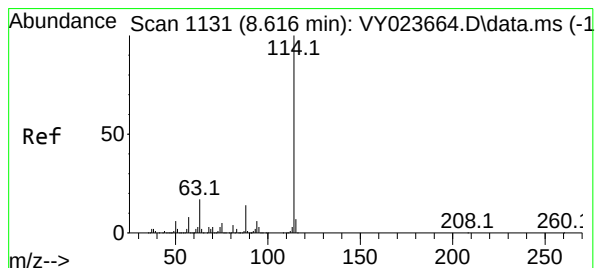
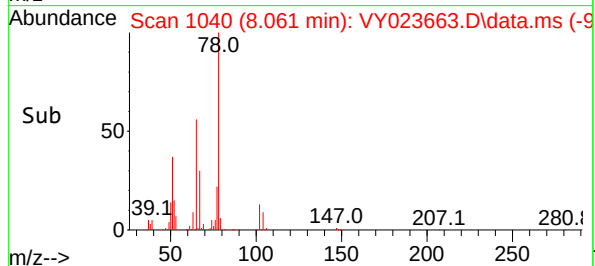
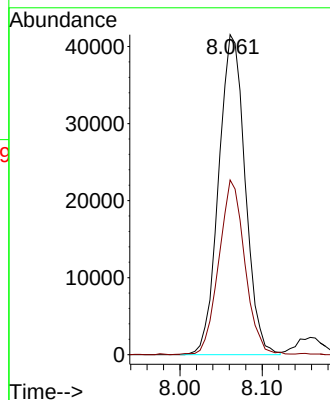
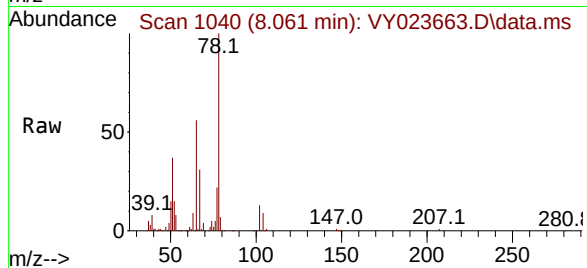
67 53.6 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

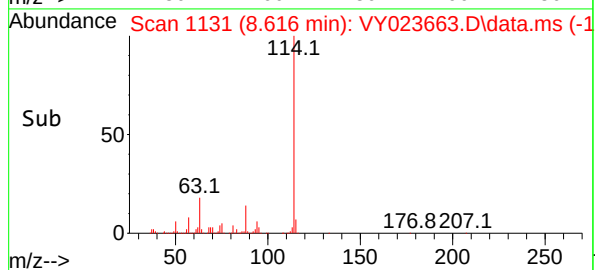
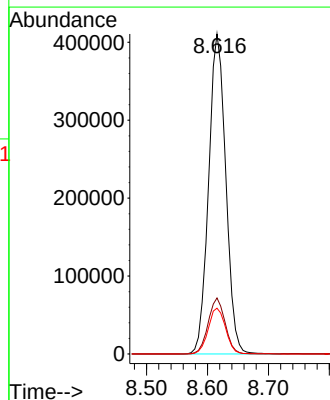
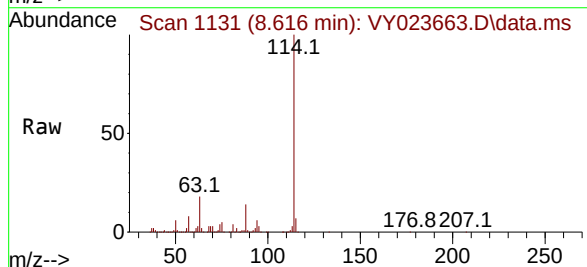
Tgt Ion:114 Resp: 804973

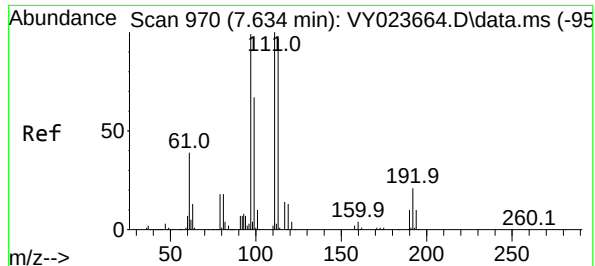
Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.8

88 14.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 19.972 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion:113 Resp: 100472

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

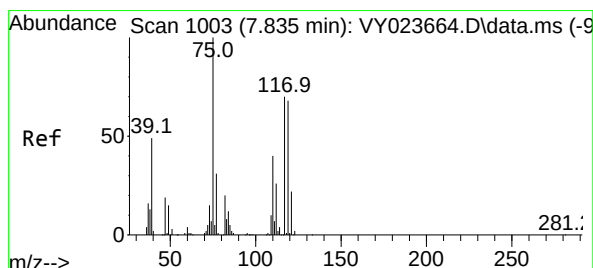
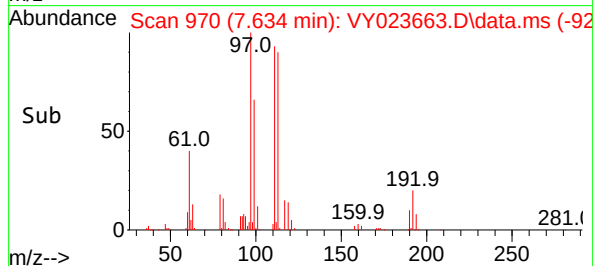
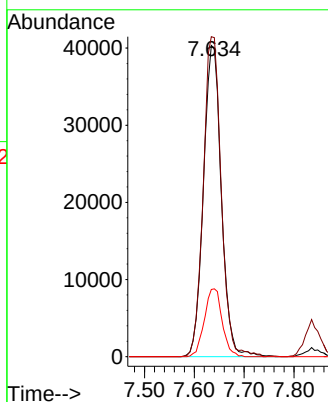
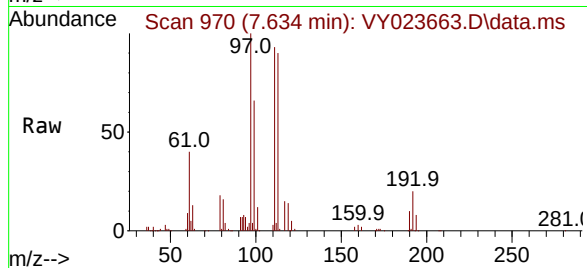
192 21.7 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 20.447 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

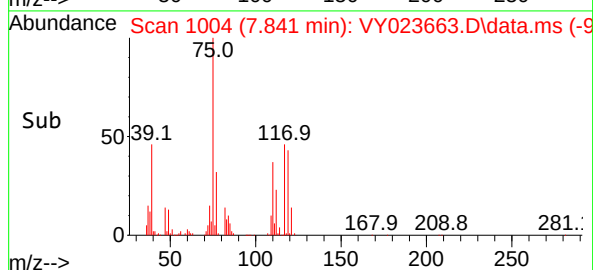
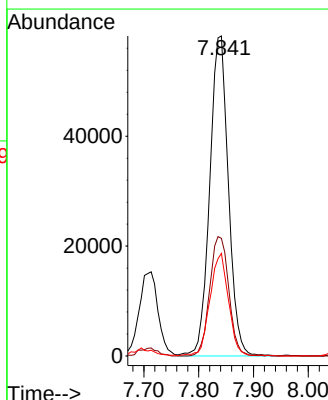
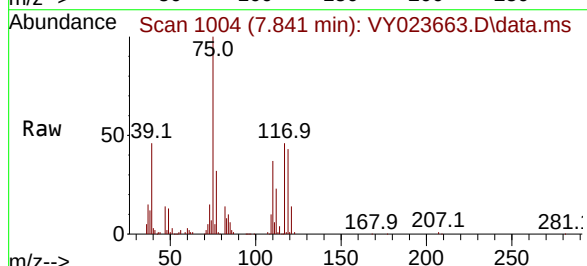
Tgt Ion: 75 Resp: 137450

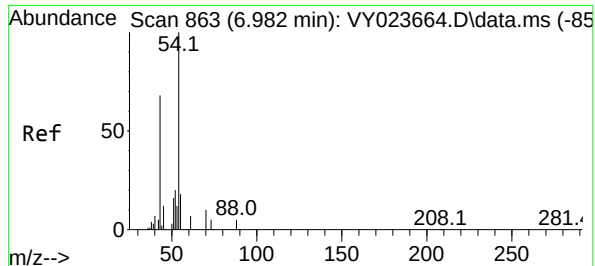
Ion Ratio Lower Upper

75 100

110 38.2 19.7 59.0

77 31.5 25.2 37.8





#37

Ethyl Acetate

Concen: 19.916 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 5182

Ion Ratio Lower Upper

43 100

61 16.9 12.4 18.6

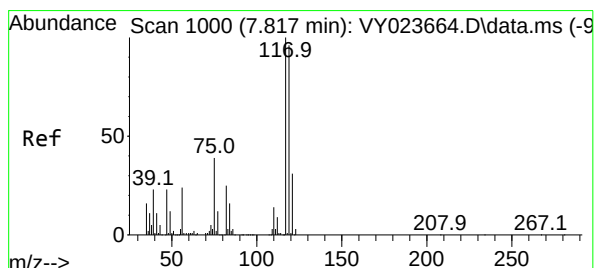
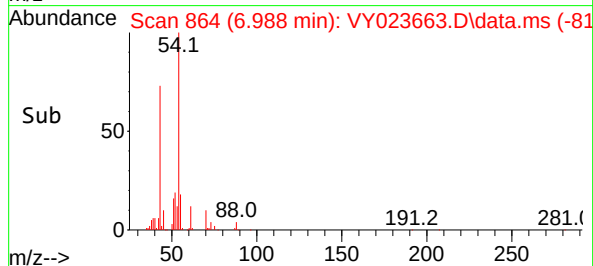
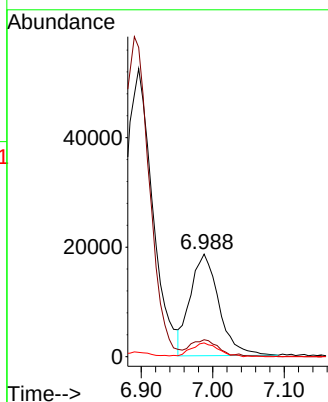
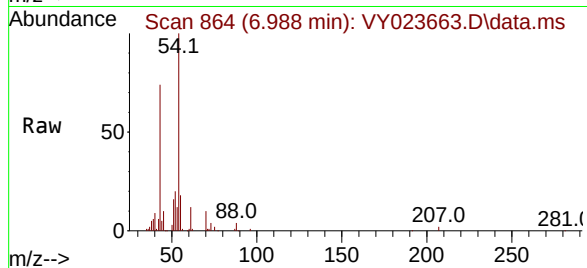
70 12.5 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 20.353 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

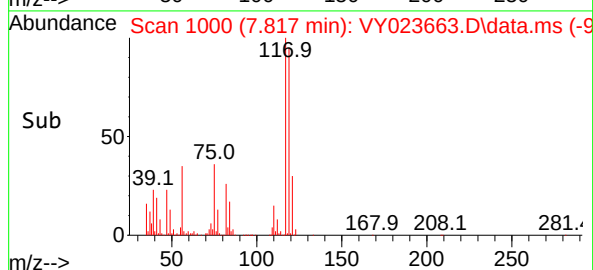
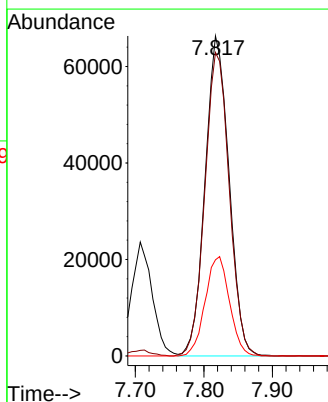
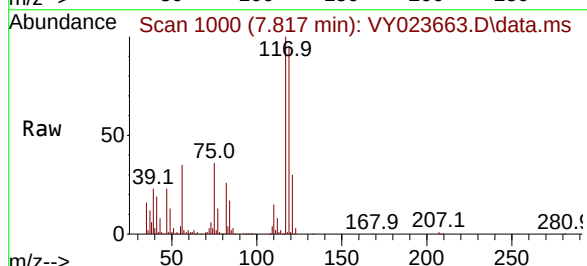
Tgt Ion:117 Resp: 161201

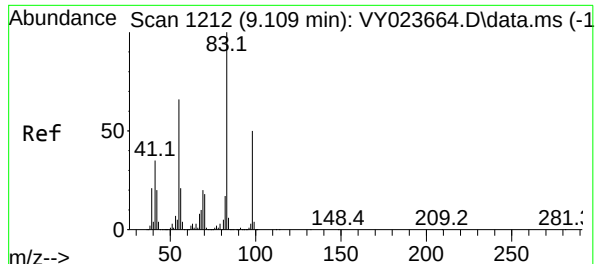
Ion Ratio Lower Upper

117 100

119 94.9 76.3 114.5

121 30.1 24.8 37.2





#39

Methylcyclohexane

Concen: 20.098 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 17262

Ion Ratio Lower Upper

83 100

55 68.0 52.6 78.8

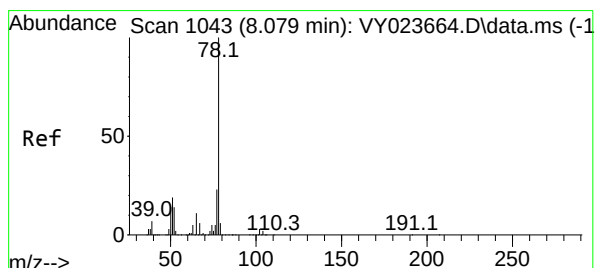
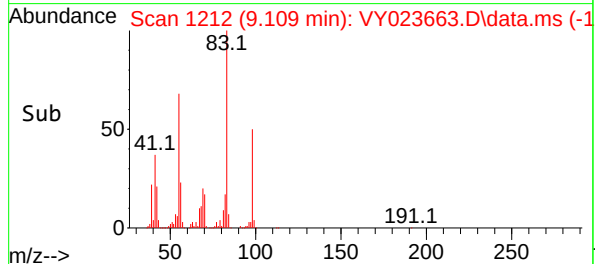
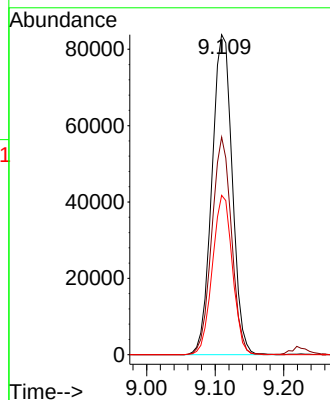
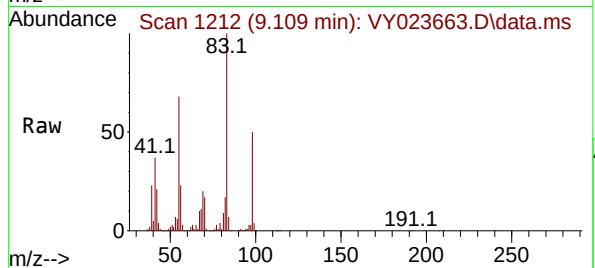
98 49.8 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 20.586 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023663.D

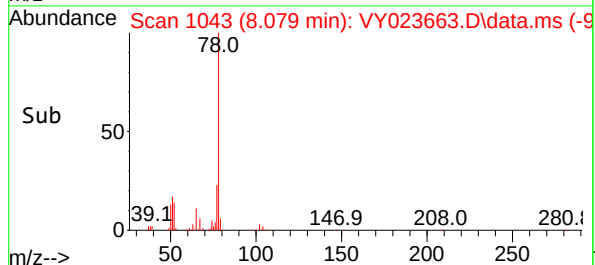
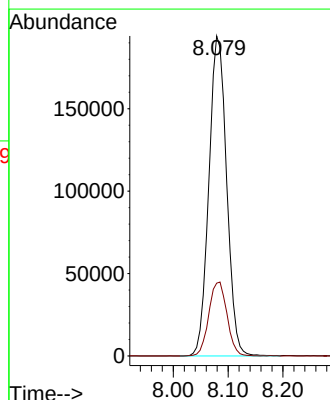
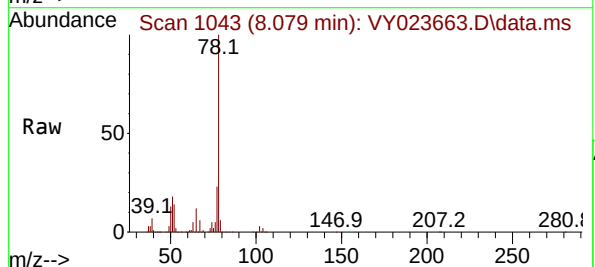
Acq: 04 Nov 2025 10:19

Tgt Ion: 78 Resp: 436191

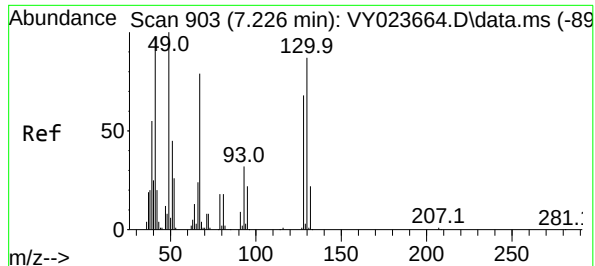
Ion Ratio Lower Upper

78 100

77 22.7 18.8 28.2

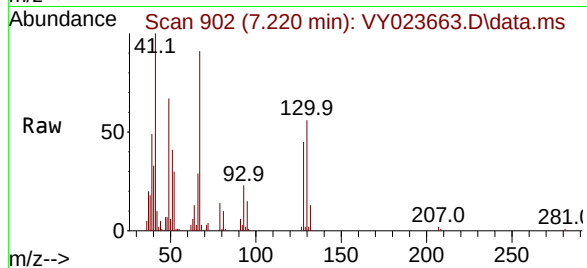






#41  
Methacrylonitrile  
Concen: 19.999 ug/l m  
RT: 7.220 min Scan# 903  
Delta R.T. -0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

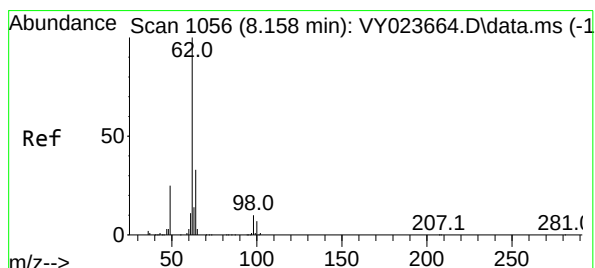
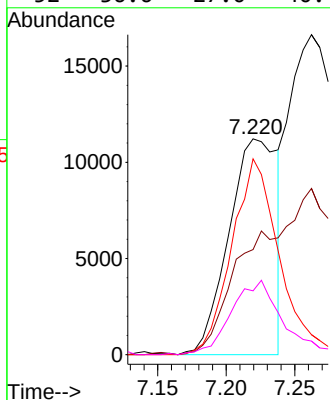
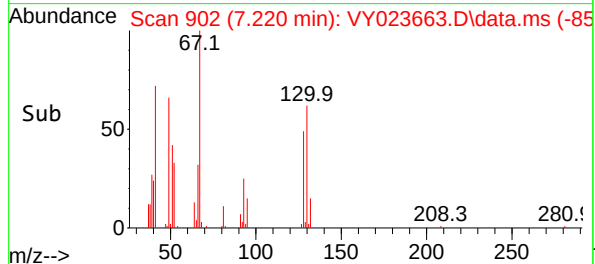
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



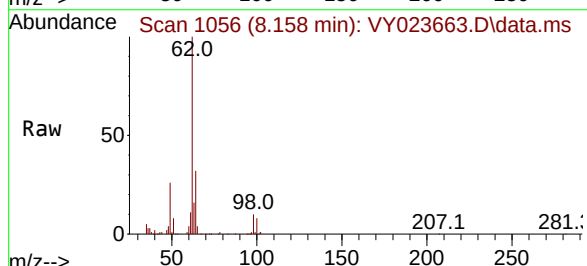
Tgt Ion: 41 Resp: 27760  
Ion Ratio Lower Upper  
41 100  
39 0.0 38.6 57.8  
67 89.2 71.3 106.9  
52 36.6 27.0 40.4

Manual Integrations  
APPROVED

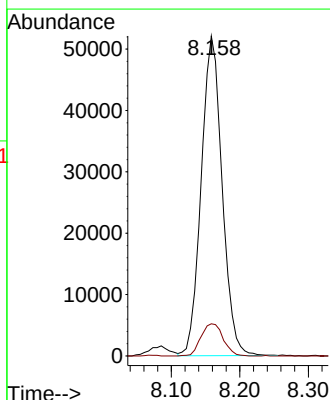
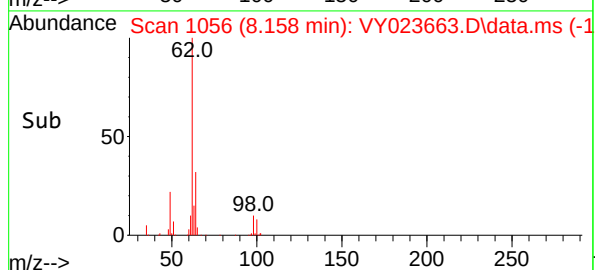
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

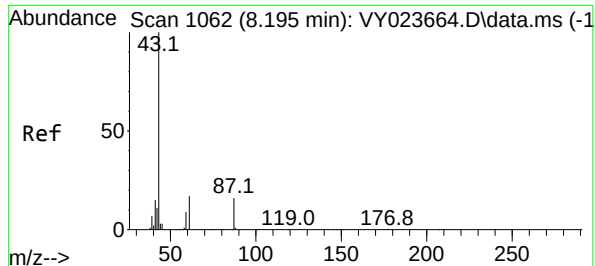


#42  
1,2-Dichloroethane  
Concen: 20.669 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19



Tgt Ion: 62 Resp: 110796  
Ion Ratio Lower Upper  
62 100  
98 10.7 0.0 21.0





#43

Isopropyl Acetate

Concen: 20.148 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 98512

Ion Ratio Lower Upper

43 100

61 23.0 18.2 27.2

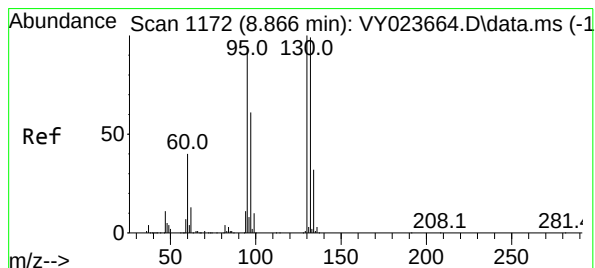
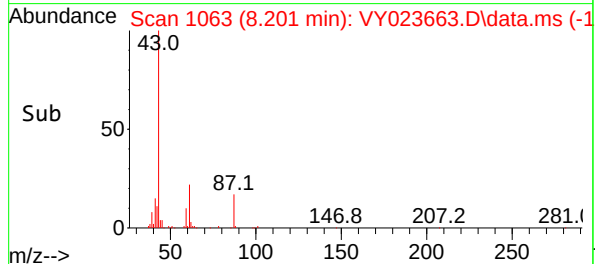
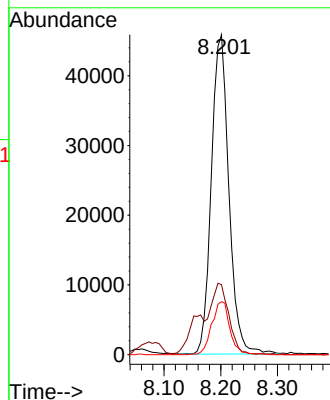
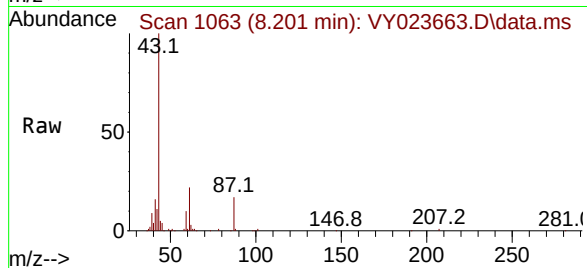
87 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 20.468 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023663.D

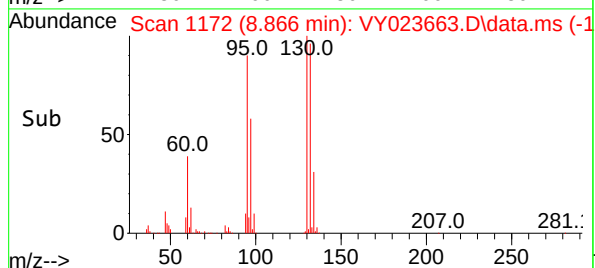
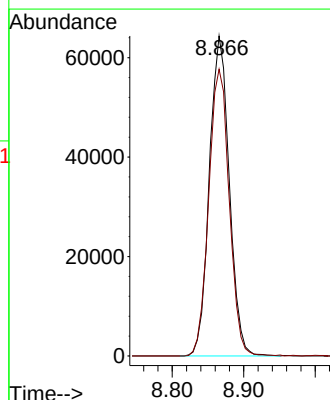
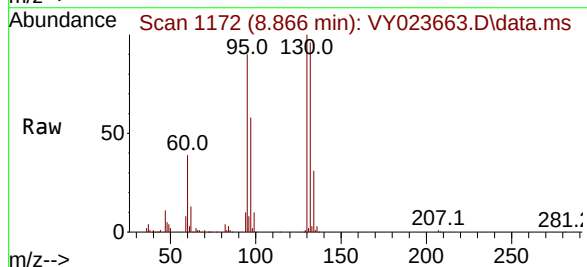
Acq: 04 Nov 2025 10:19

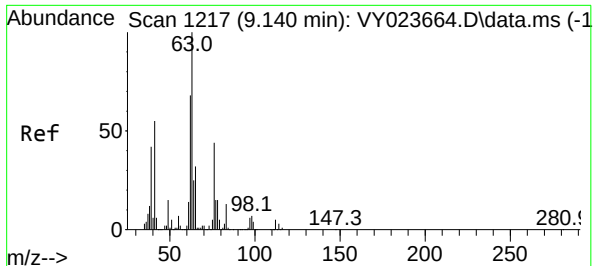
Tgt Ion:130 Resp: 124567

Ion Ratio Lower Upper

130 100

95 89.6 0.0 187.0





#45

1,2-Dichloropropane

Concen: 20.632 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 9648

Ion Ratio Lower Upper

63 100

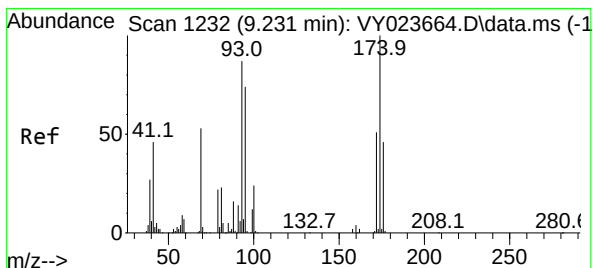
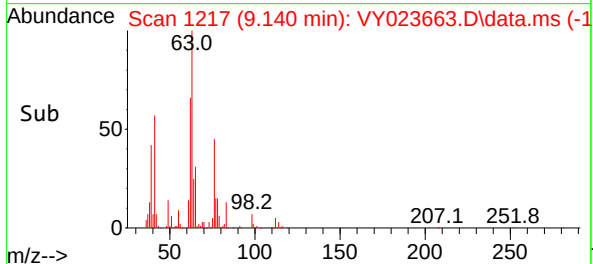
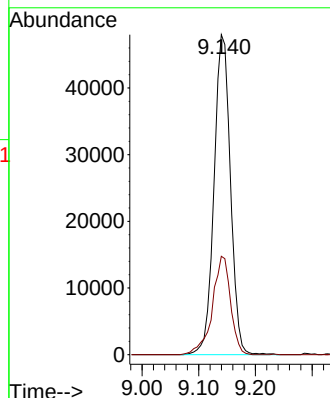
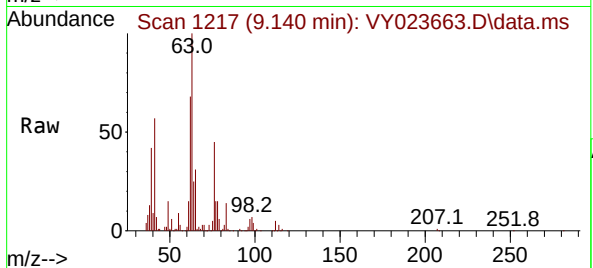
65 30.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 21.188 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

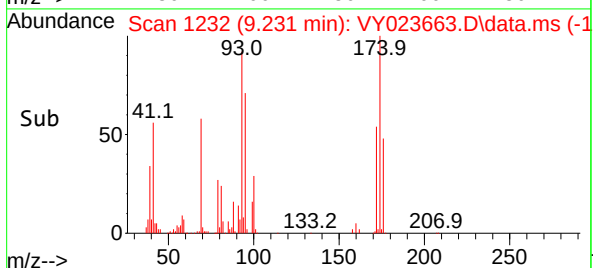
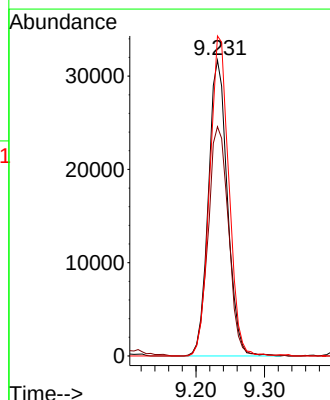
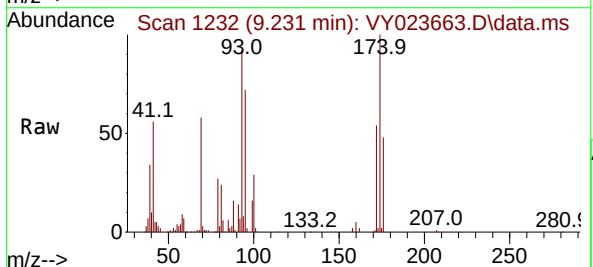
Tgt Ion: 93 Resp: 61391

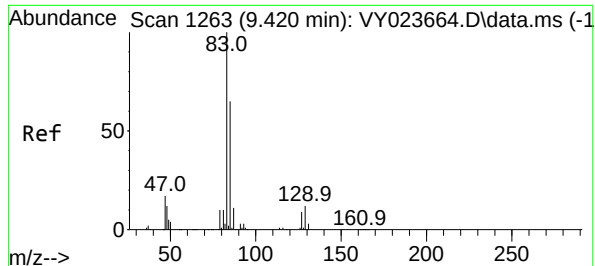
Ion Ratio Lower Upper

93 100

95 82.6 67.4 101.2

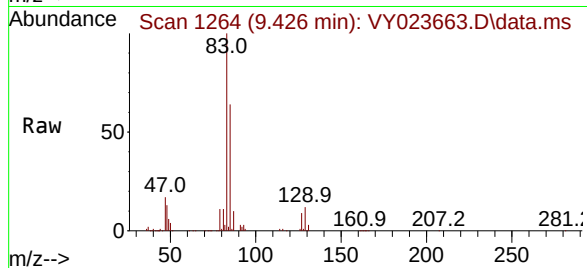
174 108.5 89.4 134.0





#47  
Bromodichloromethane  
Concen: 20.767 ug/l  
RT: 9.426 min Scan# 1263  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

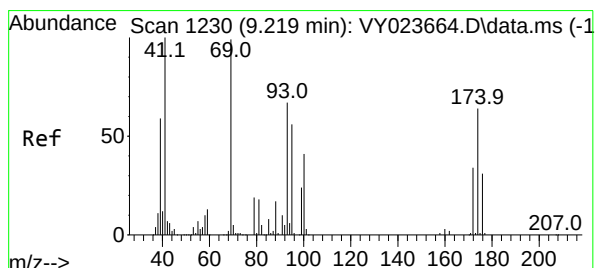
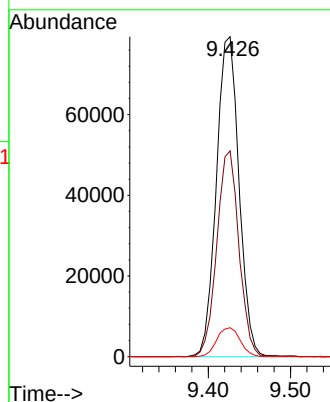
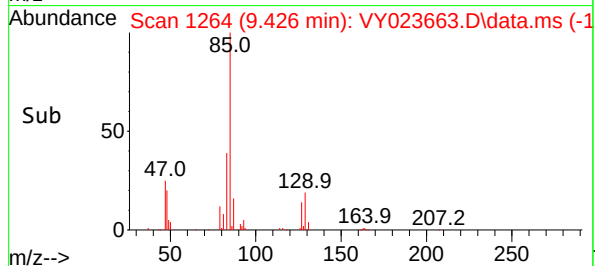
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion: 83 Resp: 151710  
Ion Ratio Lower Upper  
83 100  
85 64.2 52.1 78.1  
127 9.1 7.5 11.3

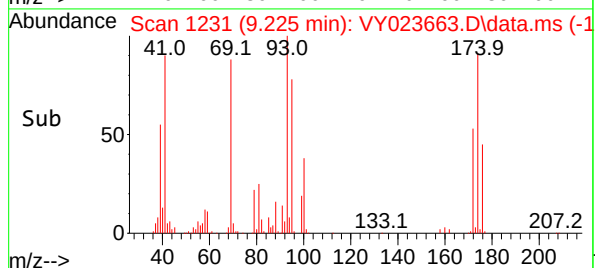
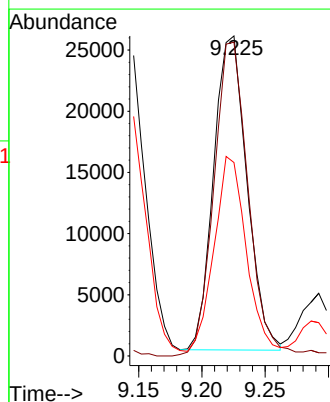
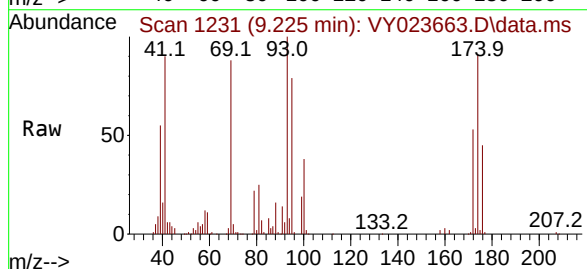
Manual Integrations  
APPROVED

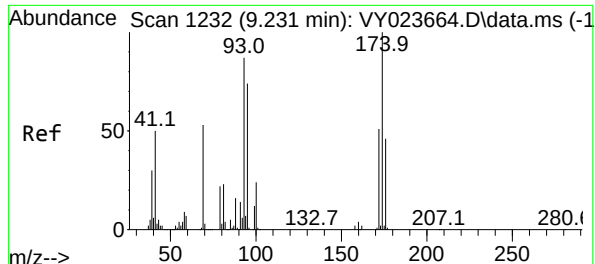
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#48  
Methyl methacrylate  
Concen: 20.341 ug/l  
RT: 9.225 min Scan# 1231  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 41 Resp: 46988  
Ion Ratio Lower Upper  
41 100  
69 102.8 80.2 120.2  
39 59.8 47.4 71.0





#49

1,4-Dioxane

Concen: 404.113 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 1198

Ion Ratio Lower Upper

88 100

43 31.2 22.0 33.0

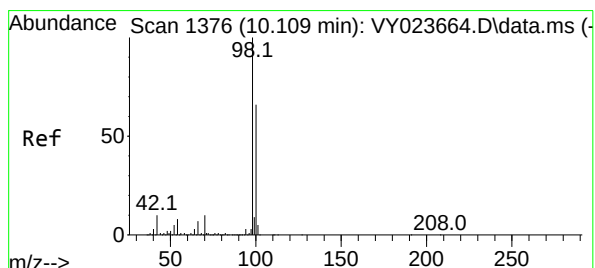
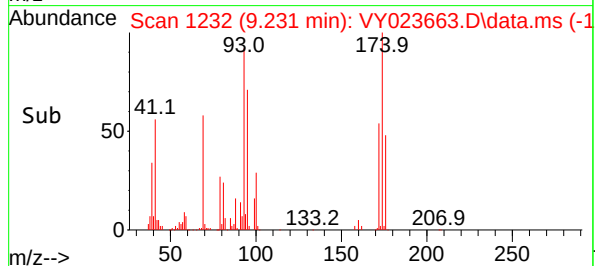
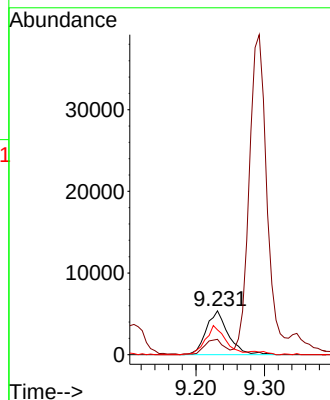
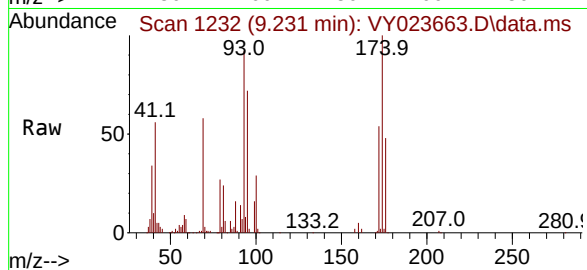
58 60.7 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 19.839 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023663.D

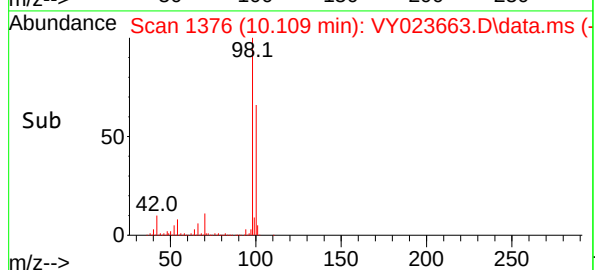
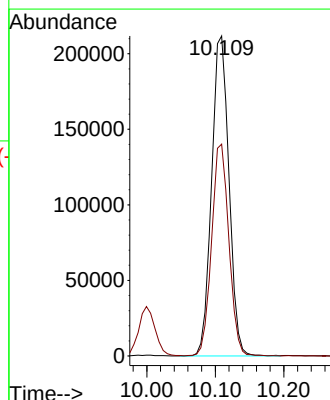
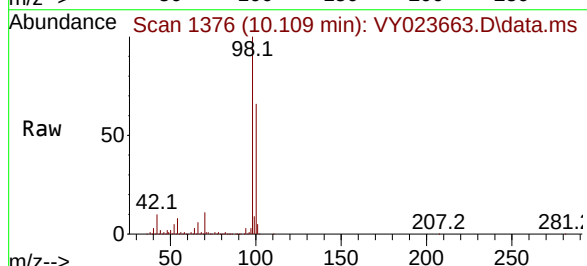
Acq: 04 Nov 2025 10:19

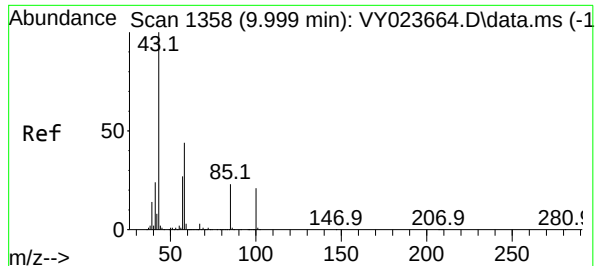
Tgt Ion: 98 Resp: 371763

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 105.327 ug/l

RT: 9.999 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 273879

Ion Ratio Lower Upper

43 100

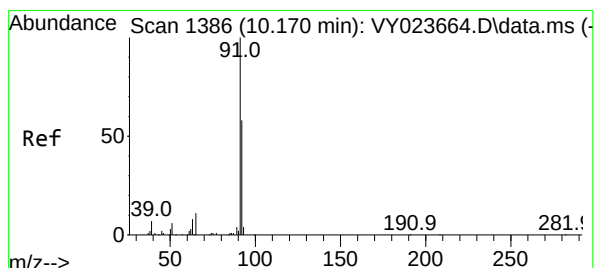
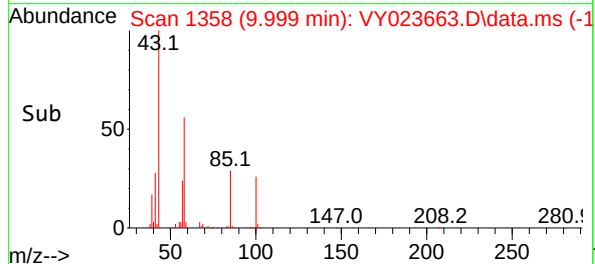
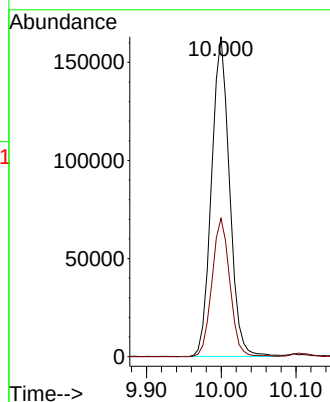
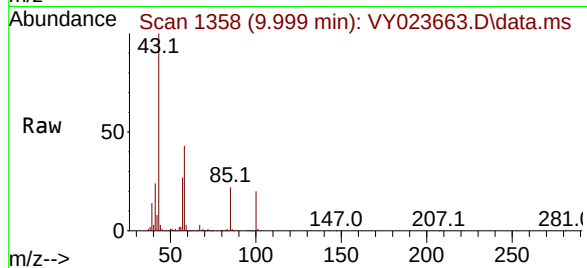
58 42.8 34.8 52.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#52

Toluene

Concen: 20.799 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. 0.000 min

Lab File: VY023663.D

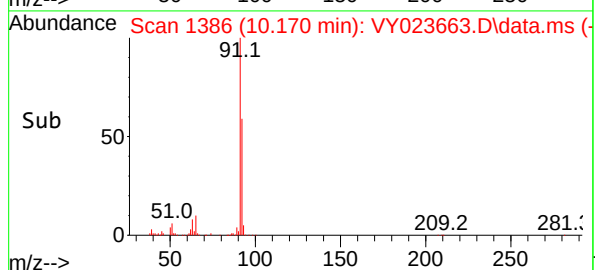
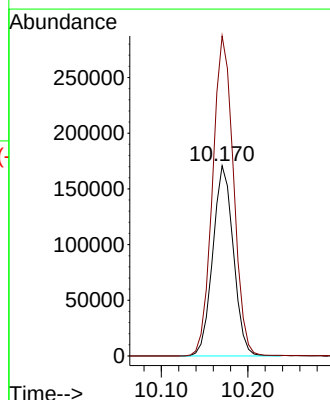
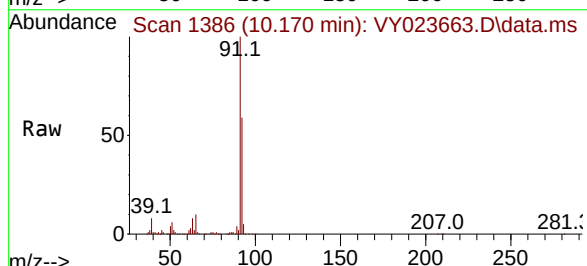
Acq: 04 Nov 2025 10:19

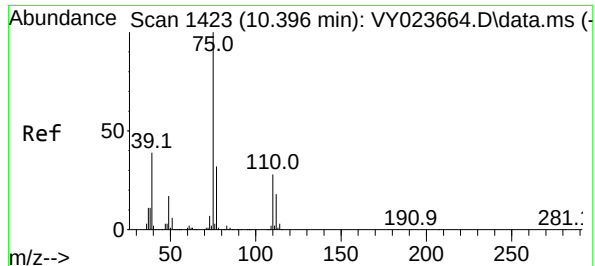
Tgt Ion: 92 Resp: 281364

Ion Ratio Lower Upper

92 100

91 171.5 137.8 206.8





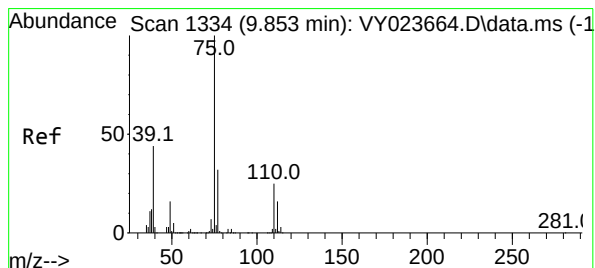
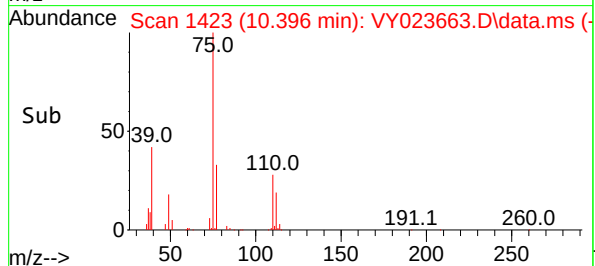
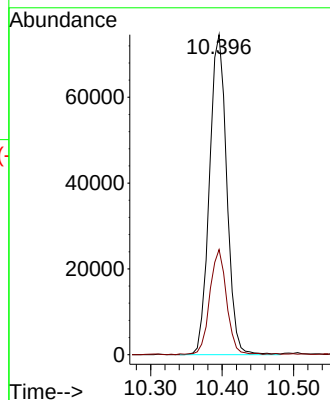
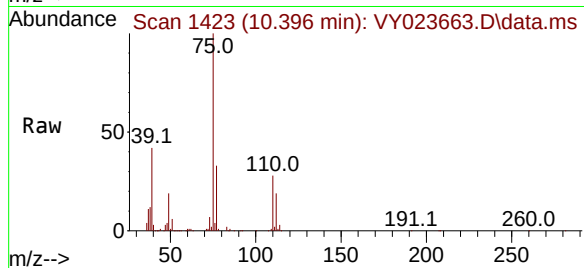
#53  
t-1,3-Dichloropropene  
Concen: 20.261 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020

Tgt Ion: 75 Resp: 125239  
Ion Ratio Lower Upper  
75 100  
77 32.7 25.6 38.4

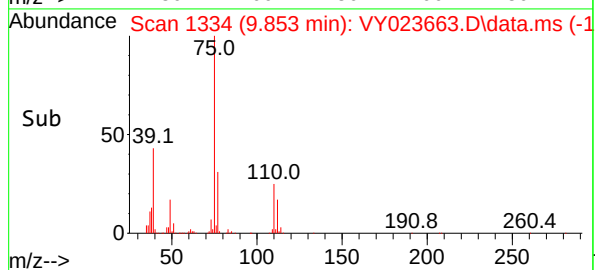
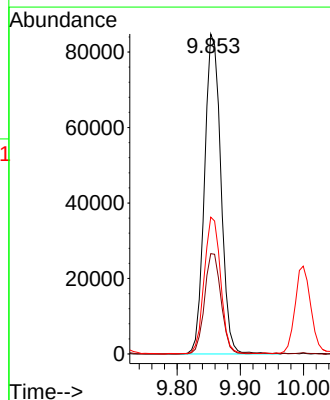
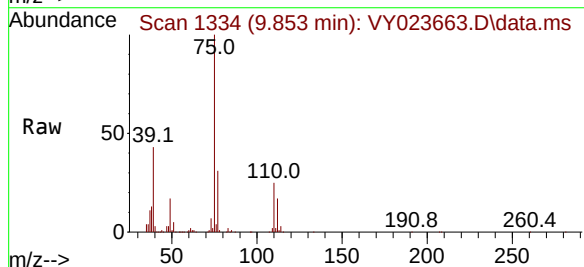
Manual Integrations  
APPROVED

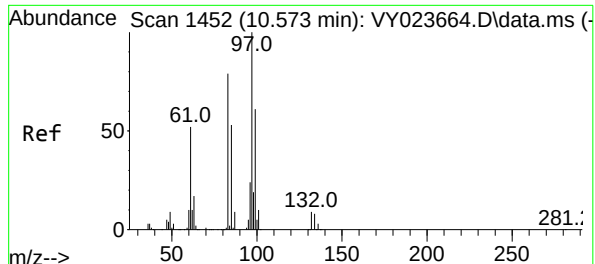
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#54  
cis-1,3-Dichloropropene  
Concen: 20.637 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

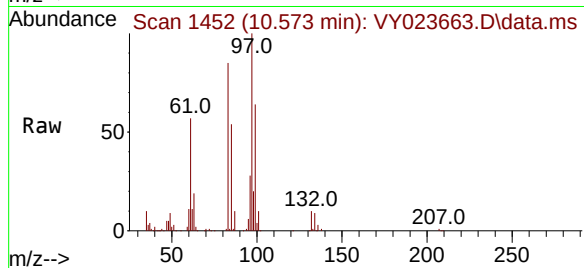
Tgt Ion: 75 Resp: 152830  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.7 38.5  
39 42.7 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 20.761 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

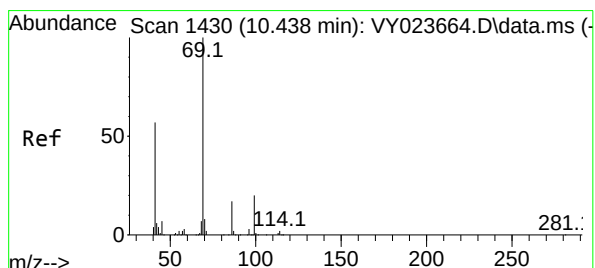
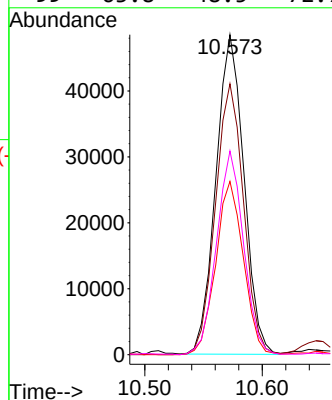
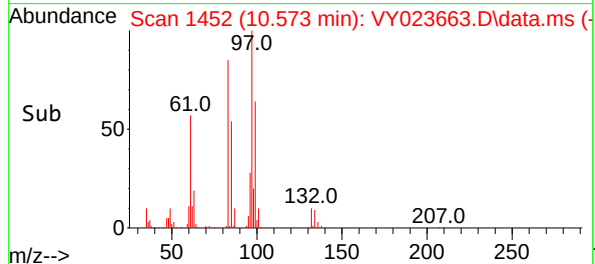
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion: 97 Resp: 80390  
Ion Ratio Lower Upper  
97 100  
83 84.6 63.3 94.9  
85 54.2 42.4 63.6  
99 63.8 48.5 72.7

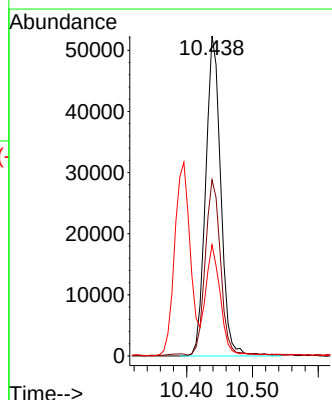
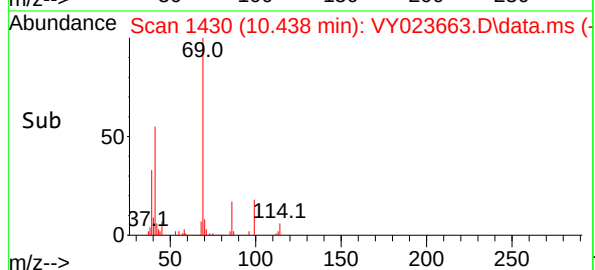
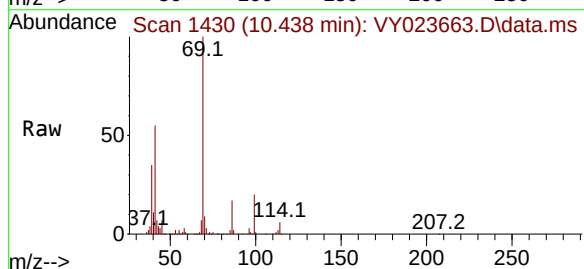
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

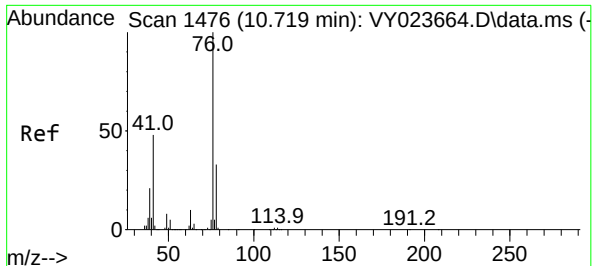


#56  
Ethyl methacrylate  
Concen: 19.687 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 69 Resp: 83993  
Ion Ratio Lower Upper  
69 100  
41 55.1 45.0 67.4  
39 32.5 25.1 37.7

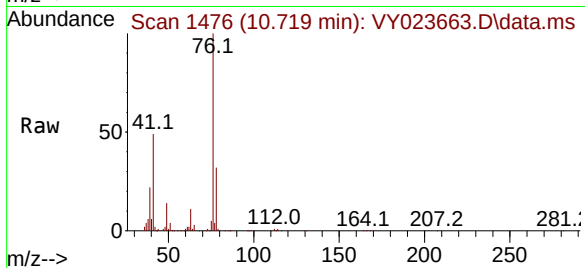






#57  
1,3-Dichloropropane  
Concen: 20.999 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

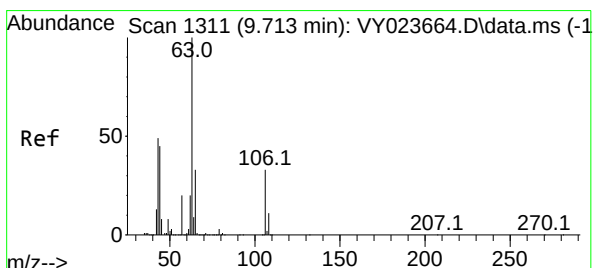
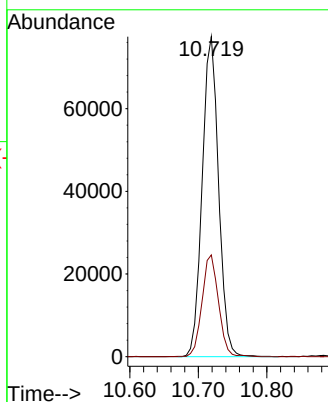
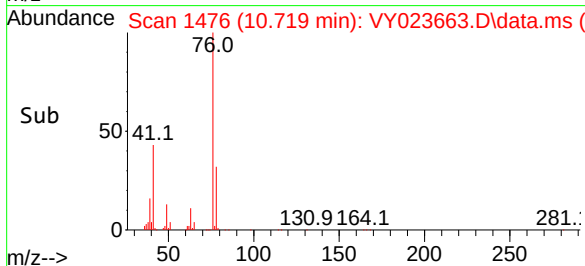
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020



Tgt Ion: 76 Resp: 128970  
Ion Ratio Lower Upper  
76 100  
78 32.0 26.0 39.0

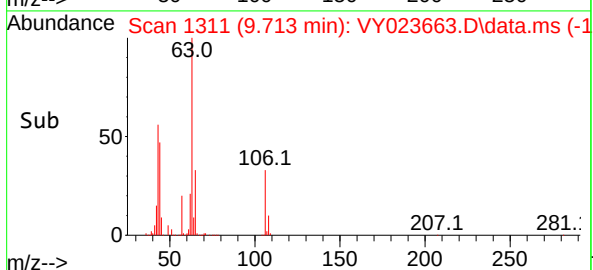
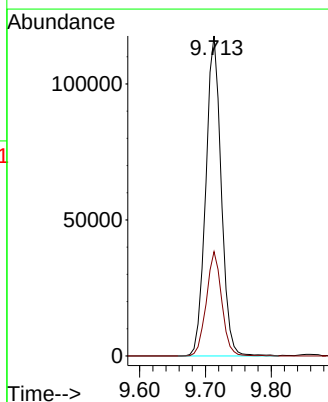
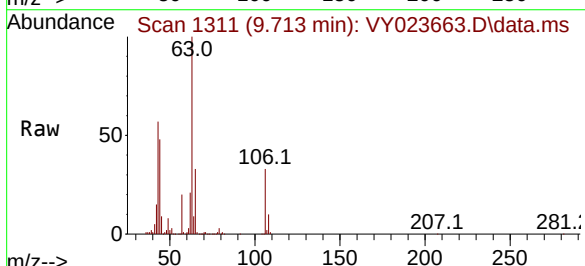
Manual Integrations  
APPROVED

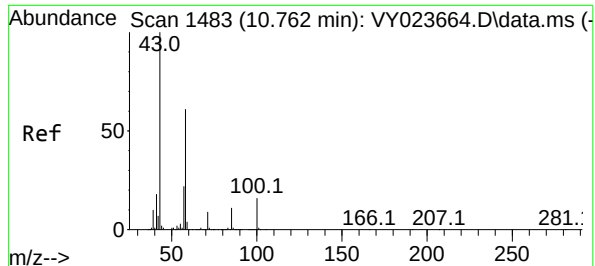
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 98.178 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

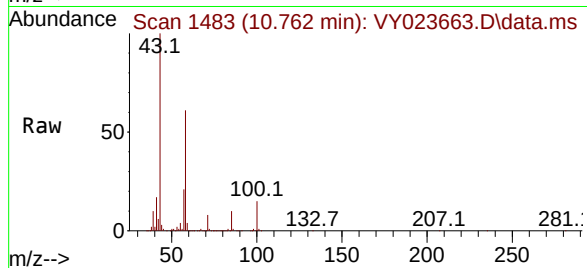
Tgt Ion: 63 Resp: 192206  
Ion Ratio Lower Upper  
63 100  
106 32.6 26.2 39.2





#59  
2-Hexanone  
Concen: 107.451 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

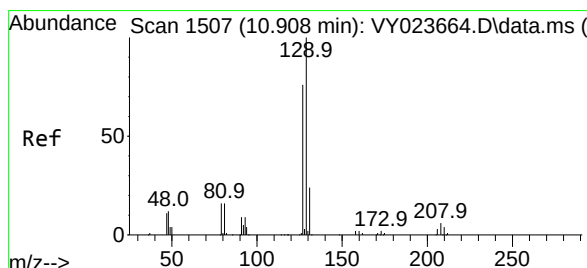
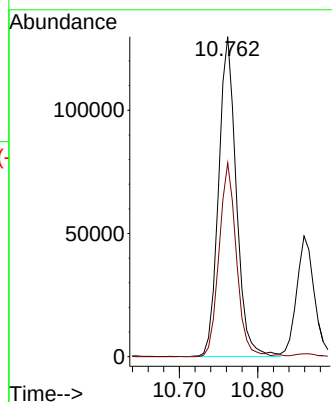
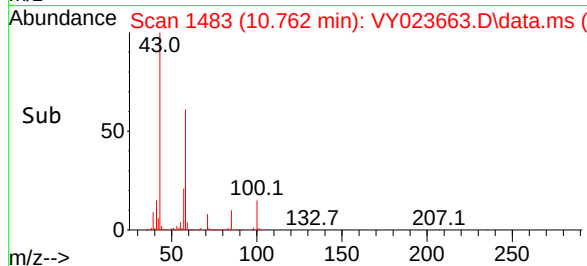
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020



Tgt Ion: 43 Resp: 203840  
Ion Ratio Lower Upper  
43 100  
58 59.5 30.2 90.6

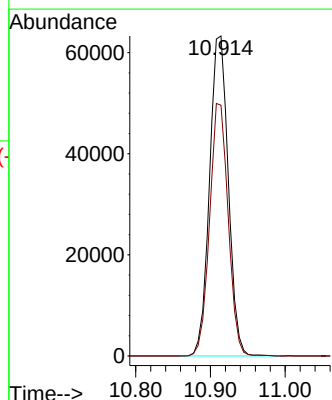
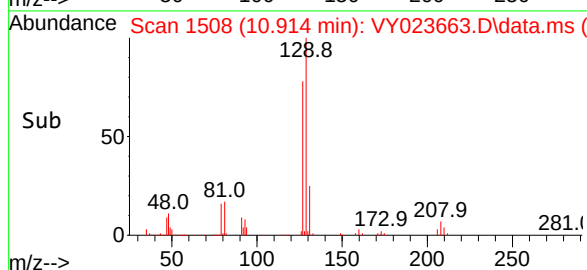
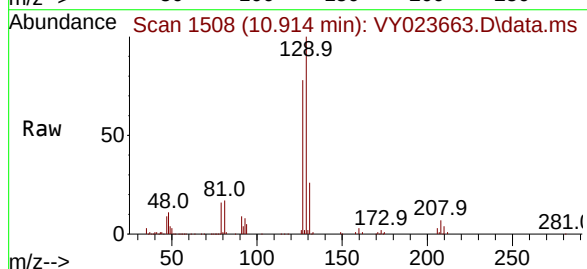
Manual Integrations  
APPROVED

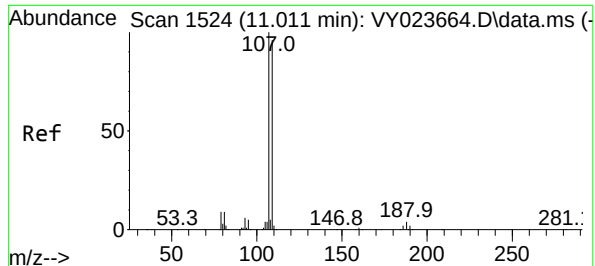
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#60  
Dibromochloromethane  
Concen: 20.677 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

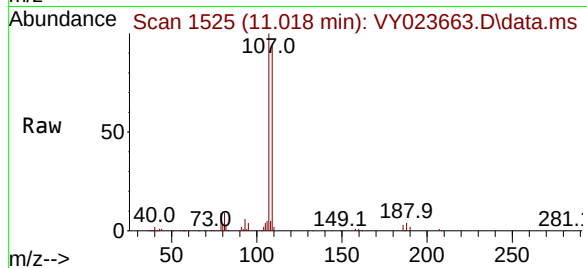
Tgt Ion:129 Resp: 110009  
Ion Ratio Lower Upper  
129 100  
127 78.1 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 21.237 ug/l  
RT: 11.018 min Scan# 1524  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

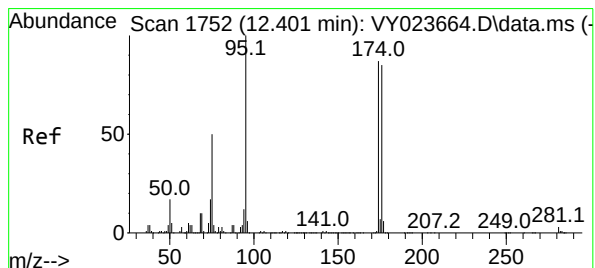
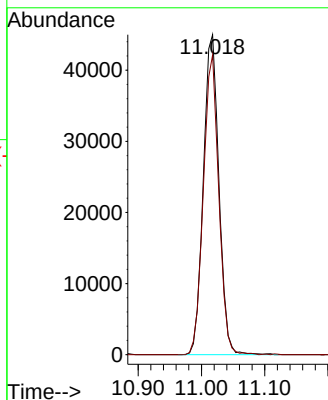
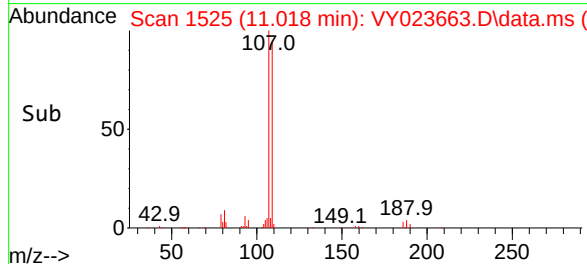
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:107 Resp: 77174  
Ion Ratio Lower Upper  
107 100  
109 92.8 76.2 114.4

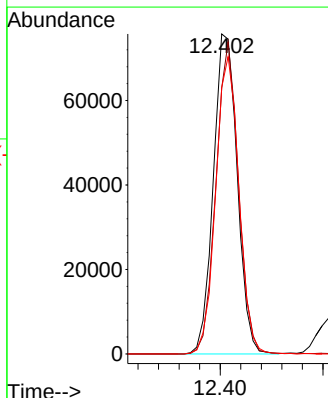
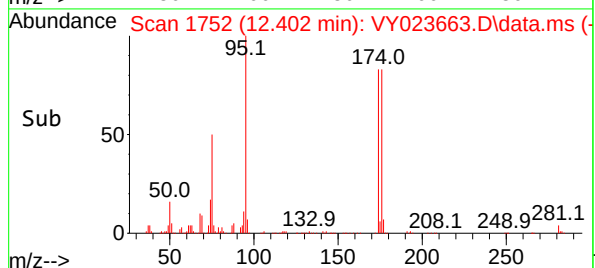
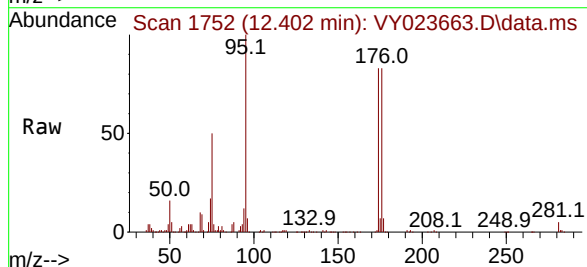
Manual Integrations  
APPROVED

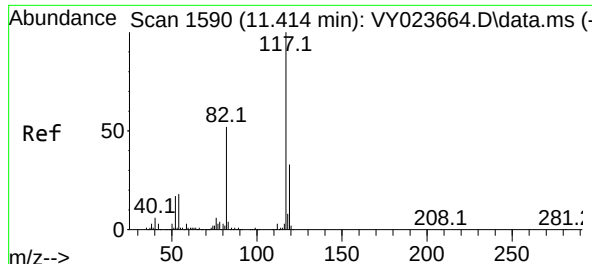
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 20.122 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

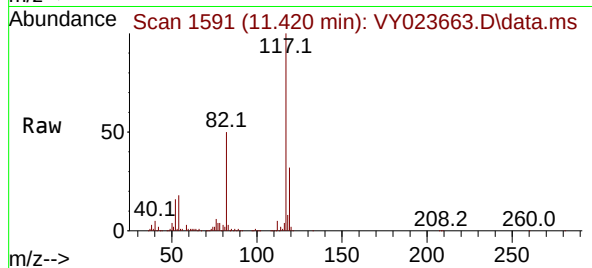
Tgt Ion: 95 Resp: 121943  
Ion Ratio Lower Upper  
95 100  
174 91.9 0.0 184.8  
176 90.3 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

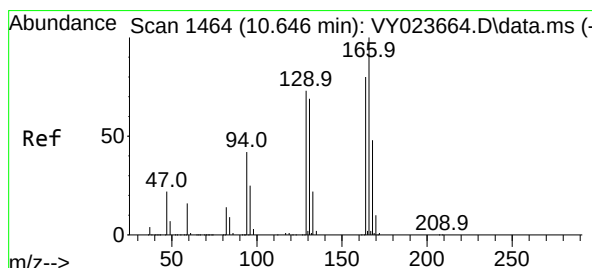
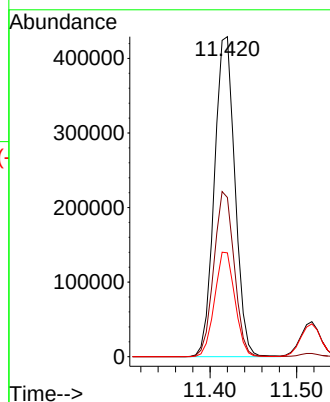
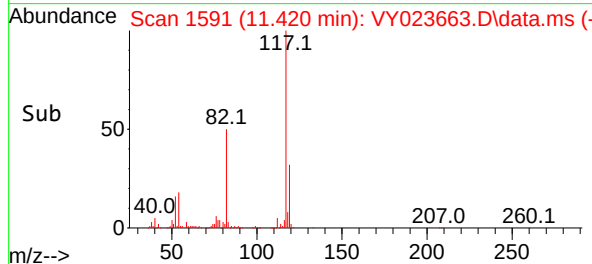
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:117 Resp: 70729  
Ion Ratio Lower Upper  
117 100  
82 49.7 41.2 61.8  
119 32.4 26.2 39.2

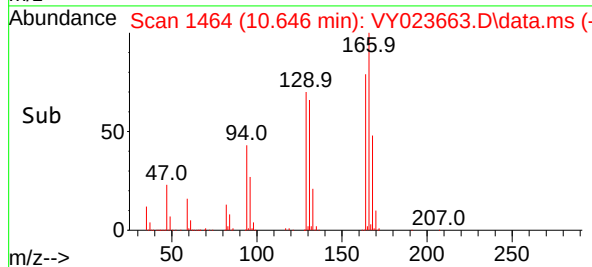
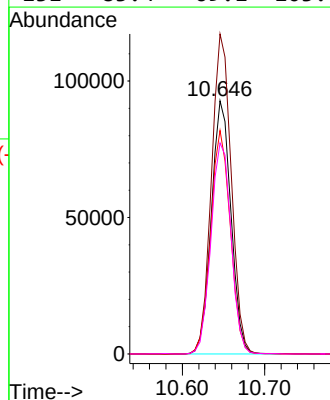
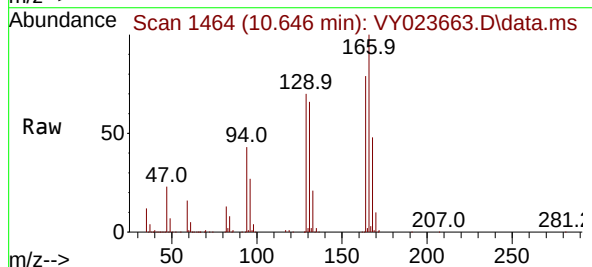
Manual Integrations  
APPROVED

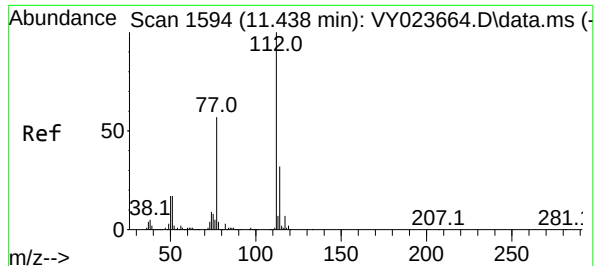
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#64  
Tetrachloroethene  
Concen: 20.955 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

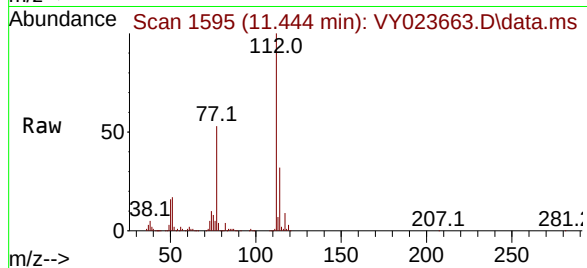
Tgt Ion:164 Resp: 154270  
Ion Ratio Lower Upper  
164 100  
166 126.4 99.5 149.3  
129 88.3 72.3 108.5  
131 83.4 69.1 103.7





#65  
Chlorobenzene  
Concen: 20.378 ug/l  
RT: 11.444 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

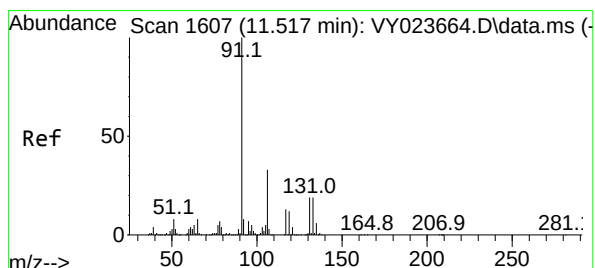
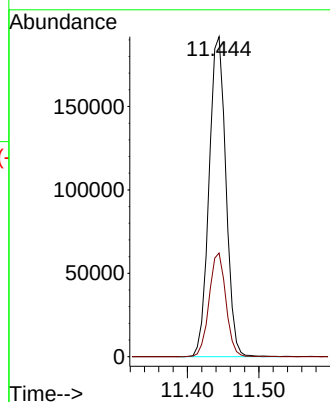
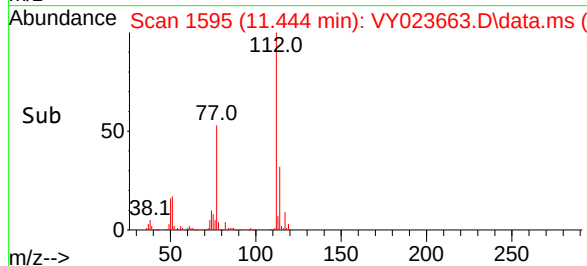
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020



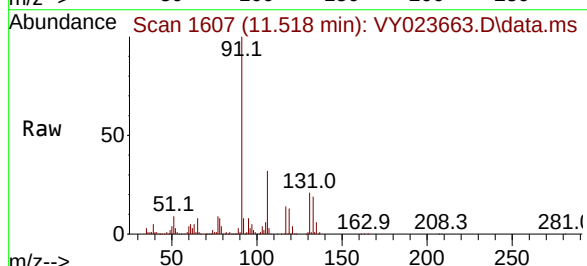
Tgt Ion:112 Resp: 313770  
Ion Ratio Lower Upper  
112 100  
114 32.4 25.8 38.6

Manual Integrations  
APPROVED

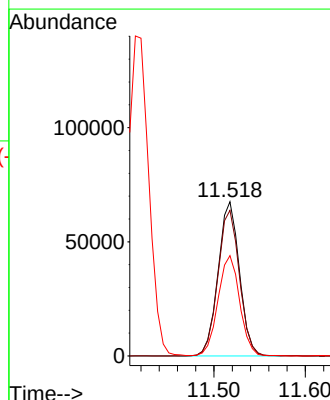
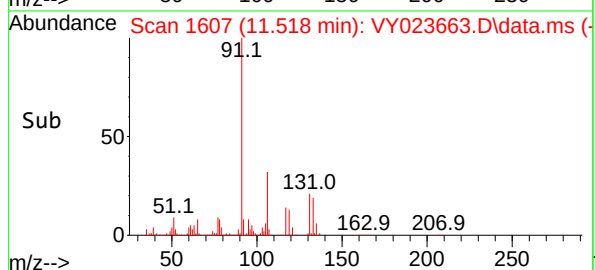
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

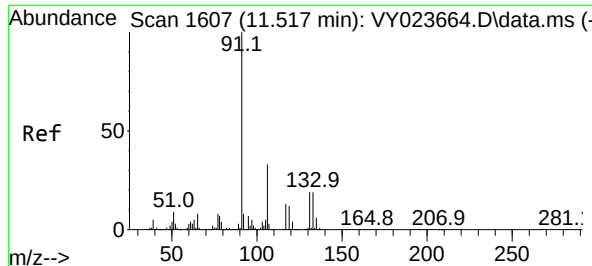


#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.122 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19



Tgt Ion:131 Resp: 109560  
Ion Ratio Lower Upper  
131 100  
133 95.8 47.3 141.8  
119 66.3 32.5 97.4





#67

Ethyl Benzene

Concen: 20.283 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 505460

Ion Ratio Lower Upper

91 100

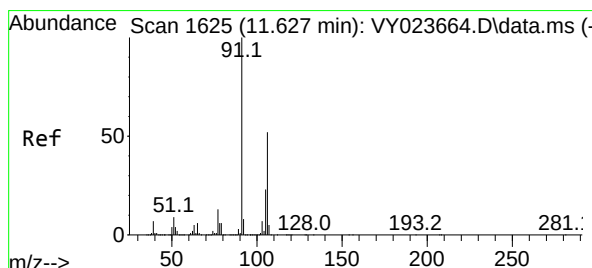
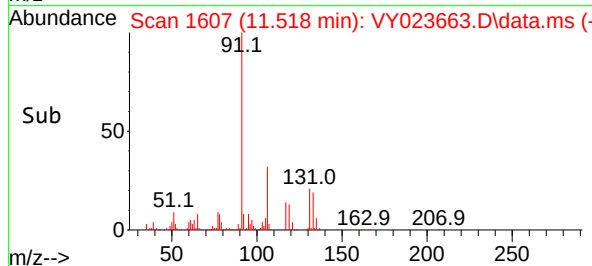
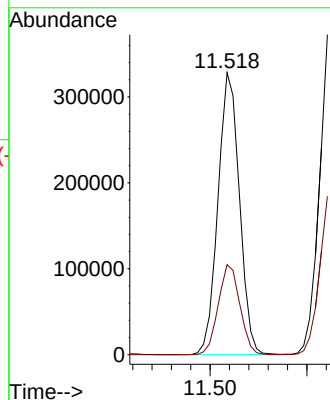
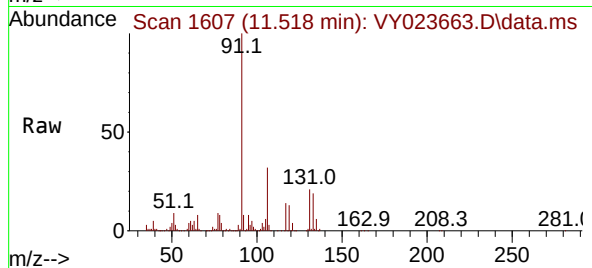
106 32.0 26.6 40.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#68

m/p-Xylenes

Concen: 41.048 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023663.D

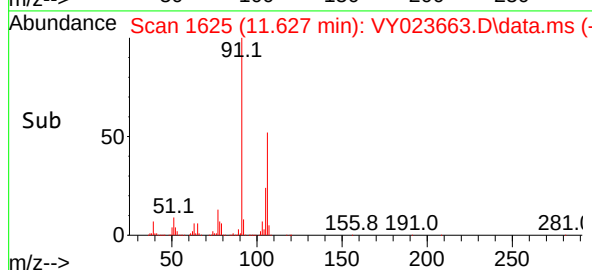
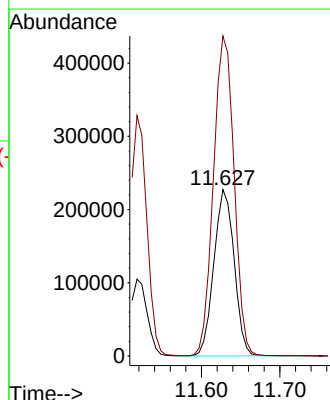
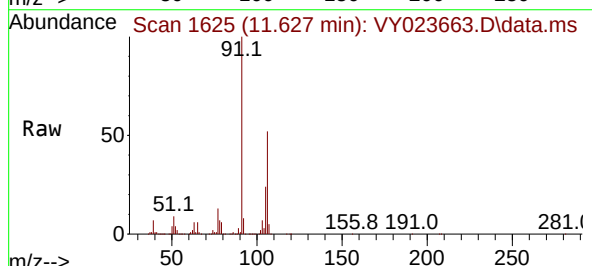
Acq: 04 Nov 2025 10:19

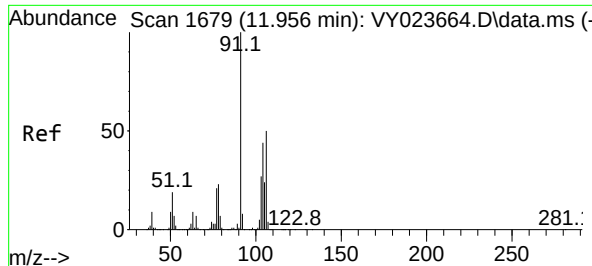
Tgt Ion:106 Resp: 408699

Ion Ratio Lower Upper

106 100

91 196.6 154.3 231.5





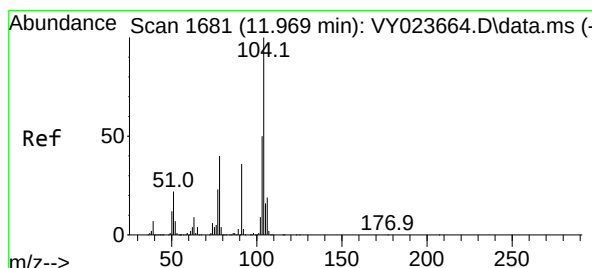
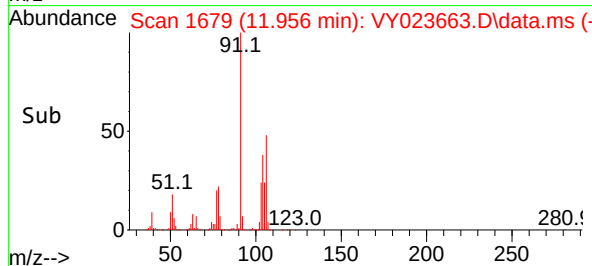
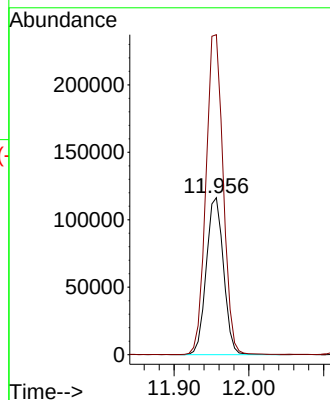
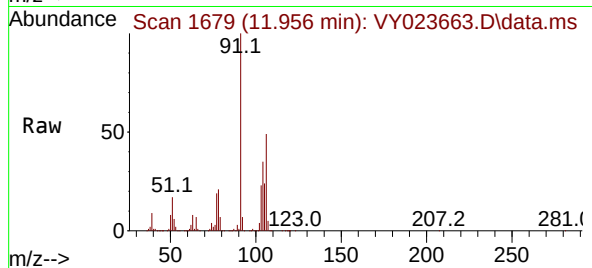
#69  
o-Xylene  
Concen: 20.260 ug/l  
RT: 11.956 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020

Tgt Ion:106 Resp: 186475  
Ion Ratio Lower Upper  
106 100  
91 203.6 101.6 304.6

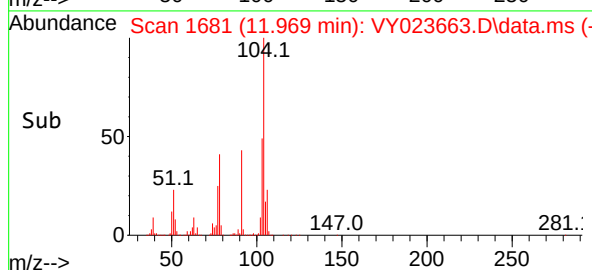
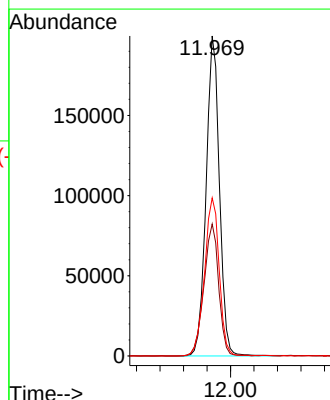
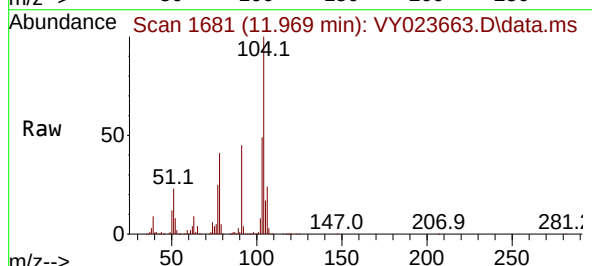
Manual Integrations  
APPROVED

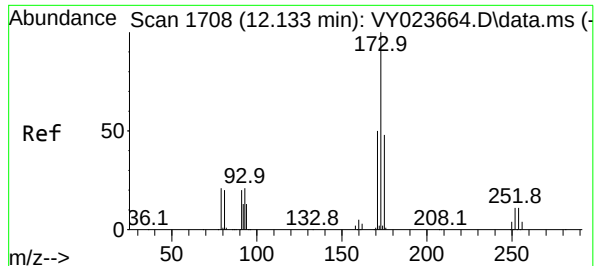
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 20.674 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

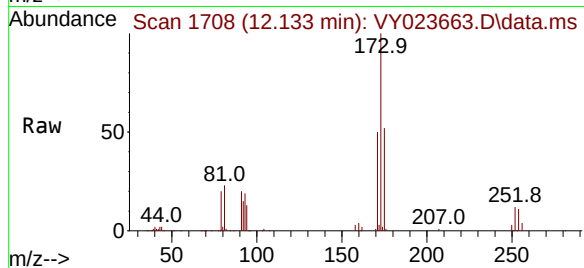
Tgt Ion:104 Resp: 313946  
Ion Ratio Lower Upper  
104 100  
78 45.7 36.5 54.7  
103 54.6 43.7 65.5





#71  
Bromoform  
Concen: 20.426 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

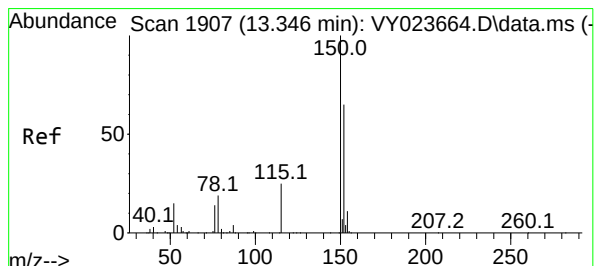
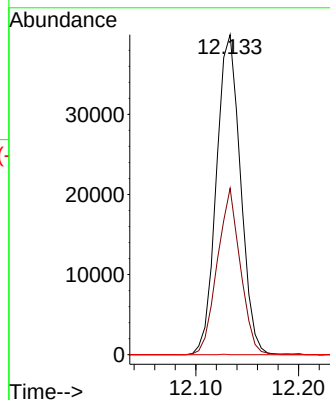
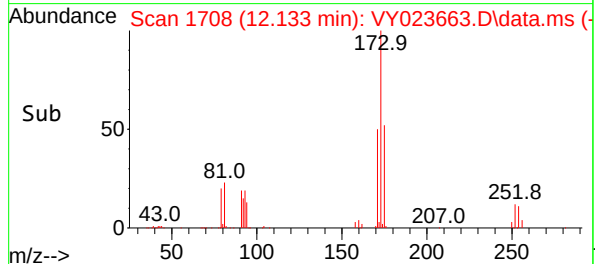
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



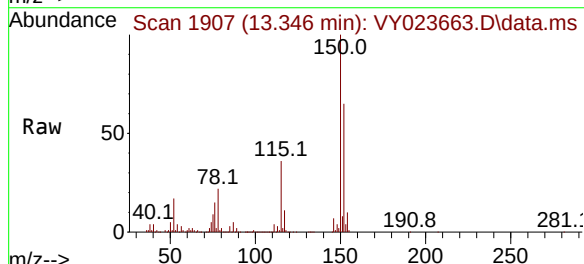
Tgt Ion:173 Resp: 64954  
Ion Ratio Lower Upper  
173 100  
175 49.8 24.2 72.6  
254 0.0 0.2 0.2

Manual Integrations  
APPROVED

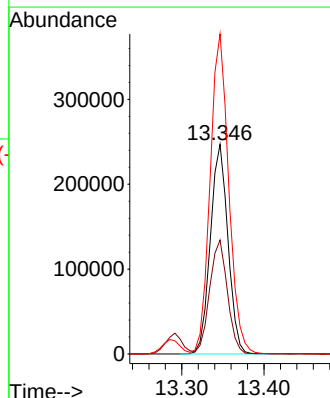
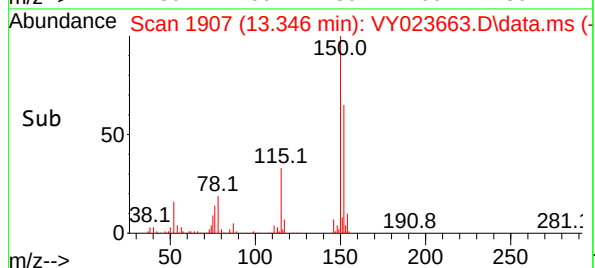
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



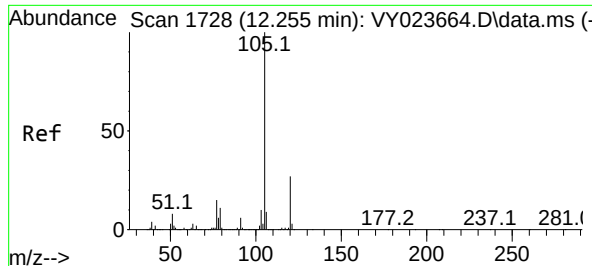
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19



Tgt Ion:152 Resp: 367397  
Ion Ratio Lower Upper  
152 100  
115 54.7 27.5 82.5  
150 161.1 0.0 349.0

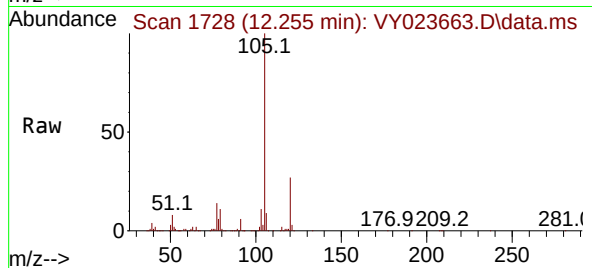






#73  
Isopropylbenzene  
Concen: 19.723 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

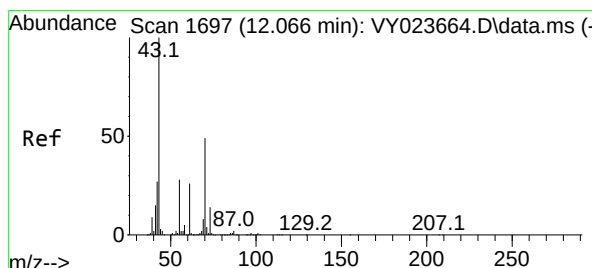
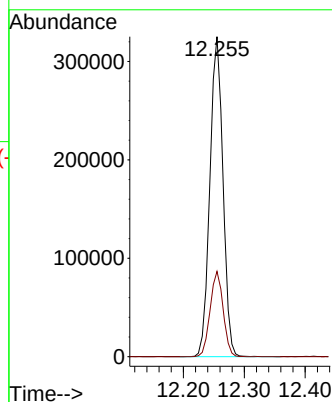
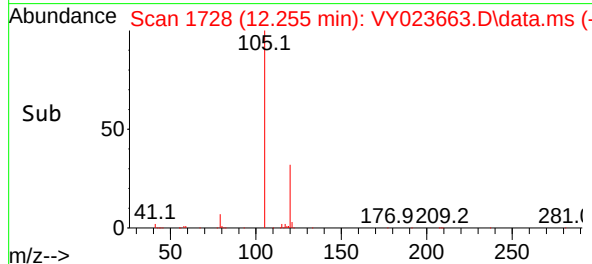
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:105 Resp: 484620  
Ion Ratio Lower Upper  
105 100  
120 26.5 13.6 40.7

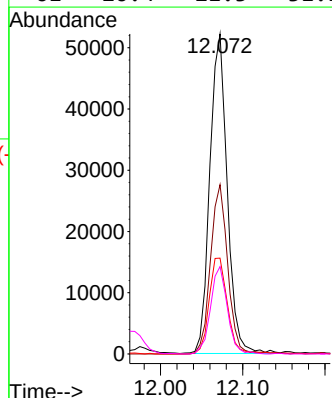
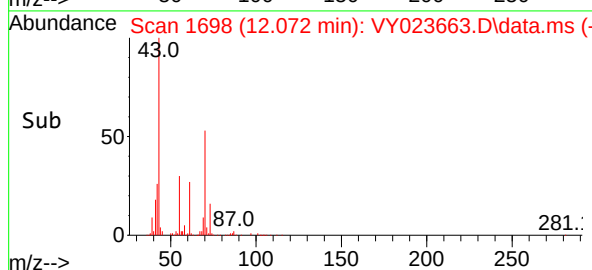
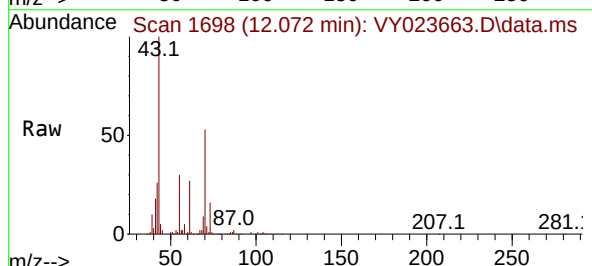
Manual Integrations  
APPROVED

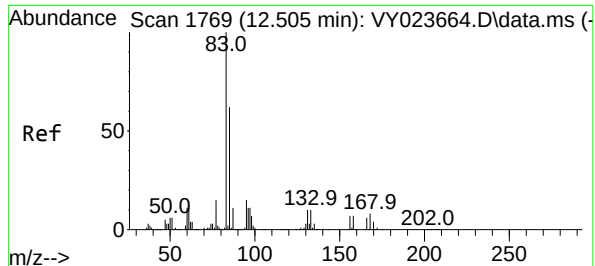
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 18.486 ug/l  
RT: 12.072 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 43 Resp: 76905  
Ion Ratio Lower Upper  
43 100  
70 52.6 40.1 60.1  
55 31.1 23.0 34.6  
61 26.4 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.531 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

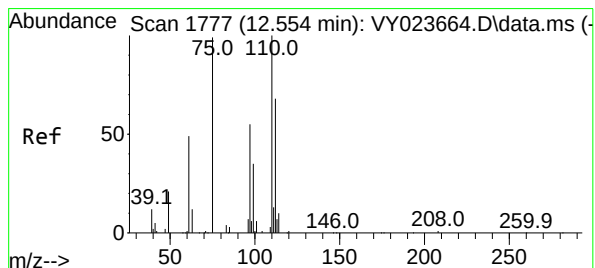
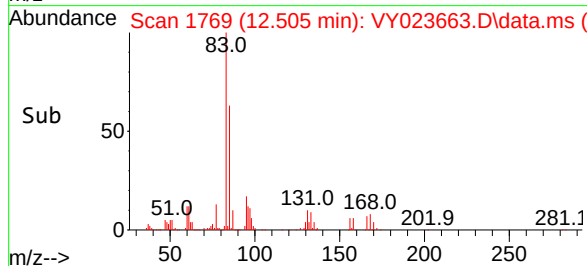
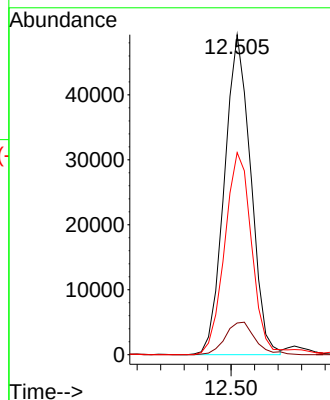
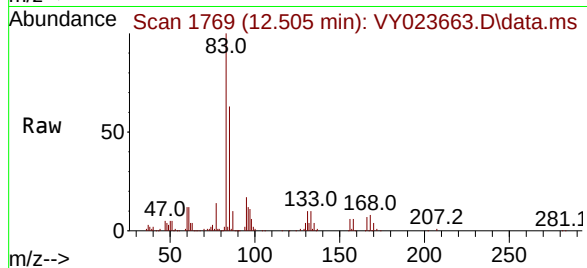
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 76650 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 11.5  | 5.7   | 17.0  |
| 85       | 66.1  | 31.9  | 95.7  |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#76

1,2,3-Trichloropropane

Concen: 20.272 ug/l m

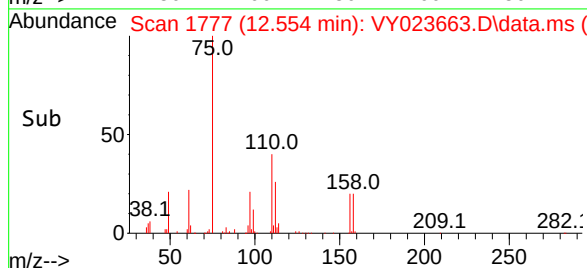
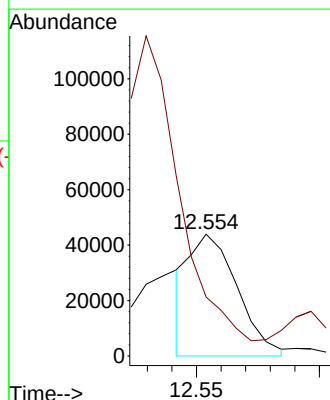
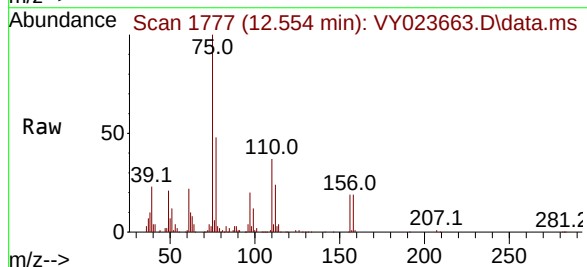
RT: 12.554 min Scan# 1777

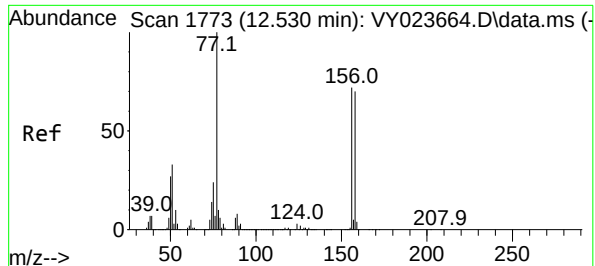
Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 60277 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 0.0   | 0.0   | 0.0   |





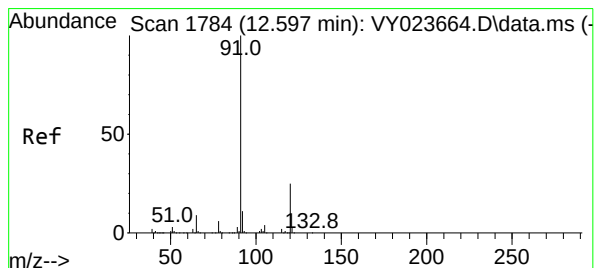
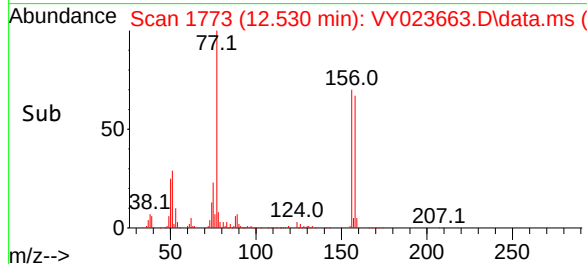
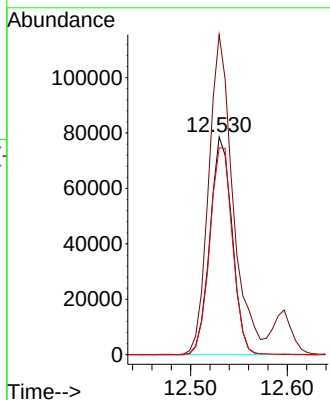
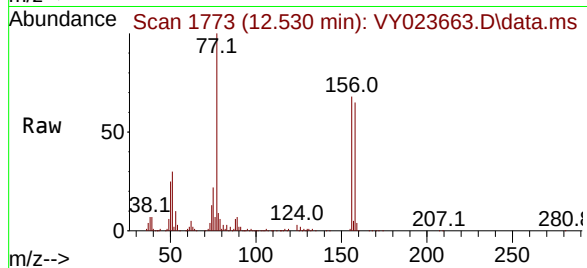
#77  
Bromobenzene  
Concen: 19.600 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020

Tgt Ion:156 Resp: 124920  
Ion Ratio Lower Upper  
156 100  
77 160.7 77.9 233.7  
158 98.0 48.5 145.5

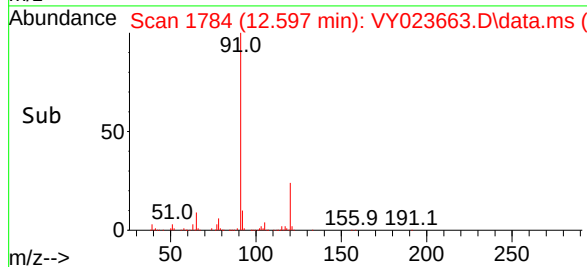
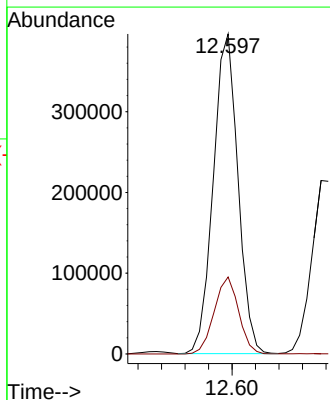
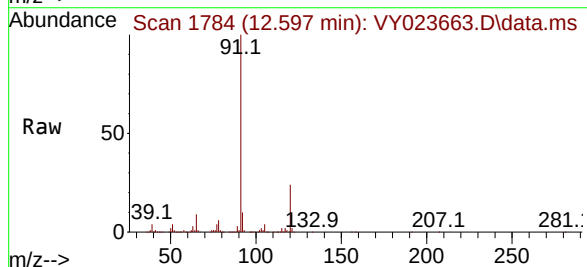
Manual Integrations  
APPROVED

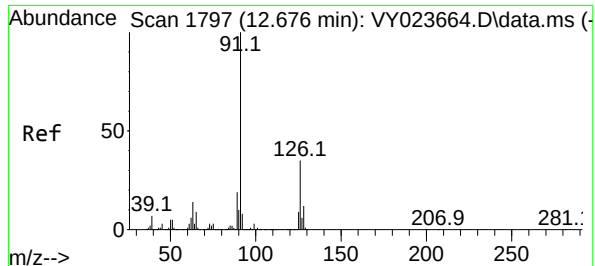
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 19.968 ug/l  
RT: 12.597 min Scan# 1784  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 91 Resp: 577151  
Ion Ratio Lower Upper  
91 100  
120 23.8 12.0 36.1





#79

2-Chlorotoluene

Concen: 20.048 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 336249

Ion Ratio Lower Upper

91 100

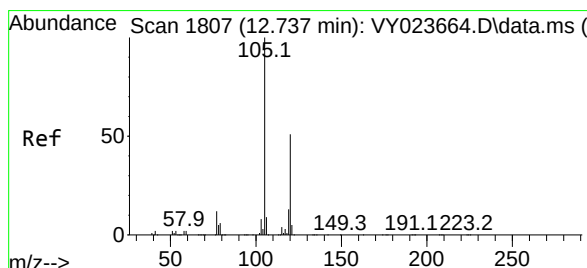
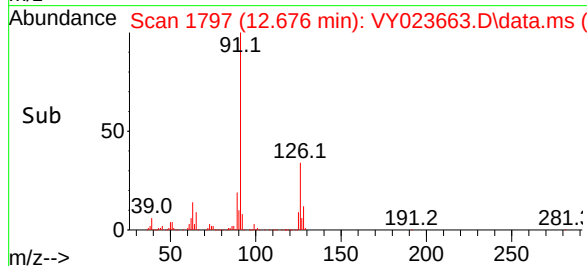
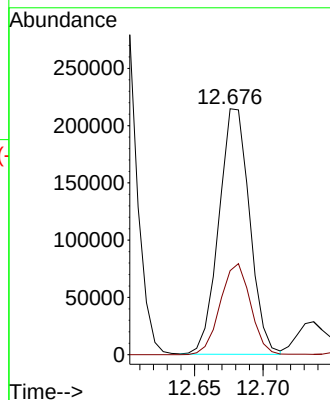
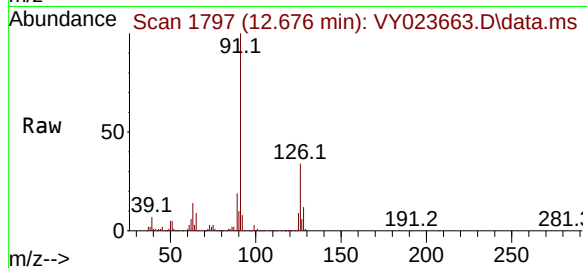
126 36.5 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.126 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023663.D

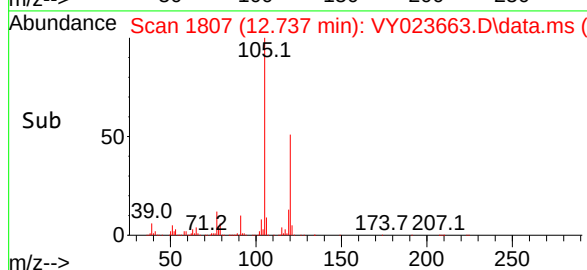
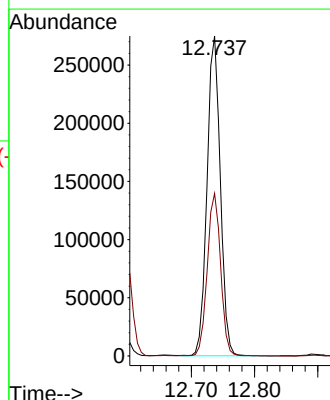
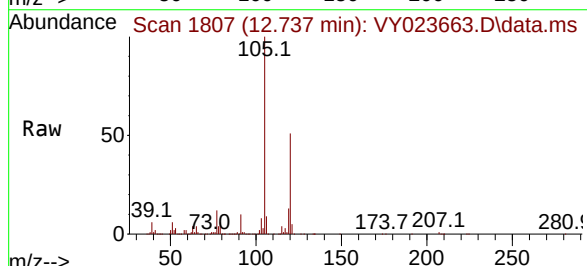
Acq: 04 Nov 2025 10:19

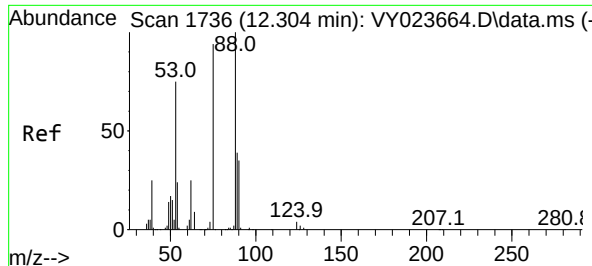
Tgt Ion:105 Resp: 401810

Ion Ratio Lower Upper

105 100

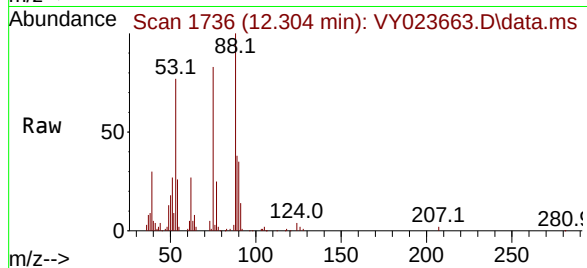
120 51.2 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 19.229 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

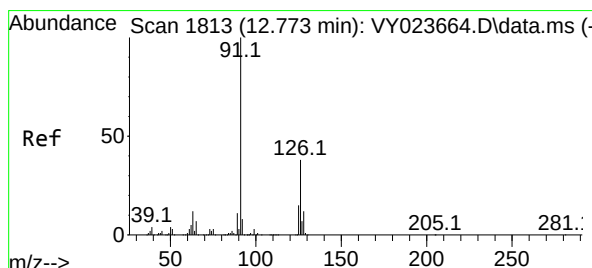
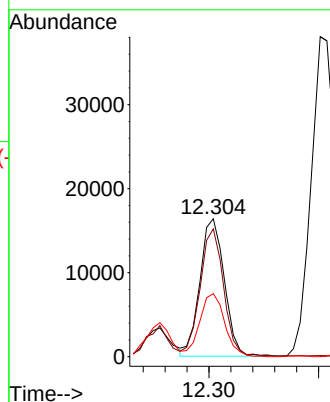
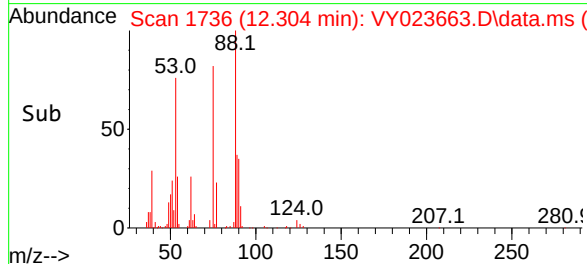
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion: 75 Resp: 2529  
Ion Ratio Lower Upper  
75 100  
53 89.0 69.6 104.4  
89 47.3 38.2 57.4

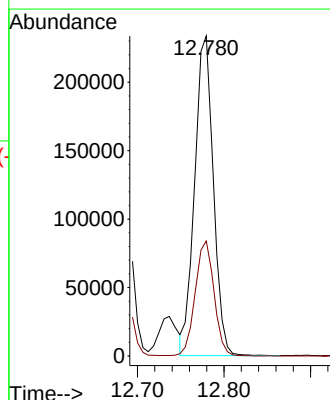
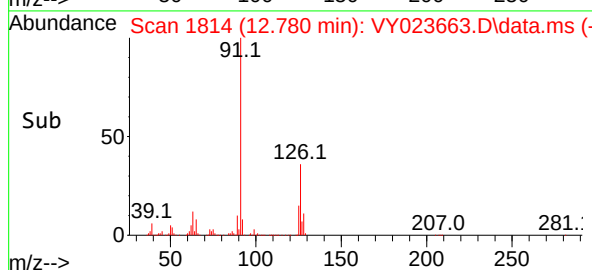
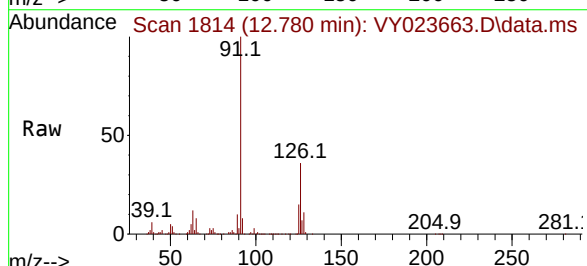
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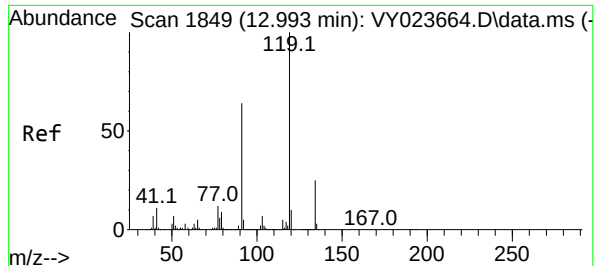
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 20.241 ug/l  
RT: 12.780 min Scan# 1814  
Delta R.T. 0.006 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion: 91 Resp: 350104  
Ion Ratio Lower Upper  
91 100  
126 36.2 18.1 54.4





#83

tert-Butylbenzene

Concen: 19.409 ug/l

RT: 12.999 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 352929

Ion Ratio Lower Upper

119 100

91 61.4 30.7 92.1

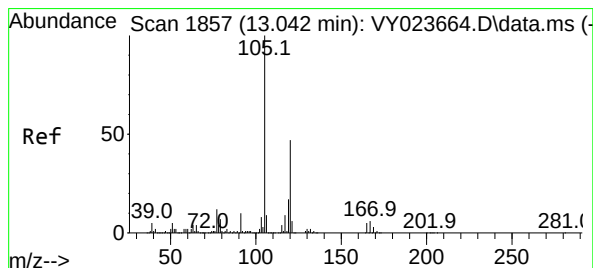
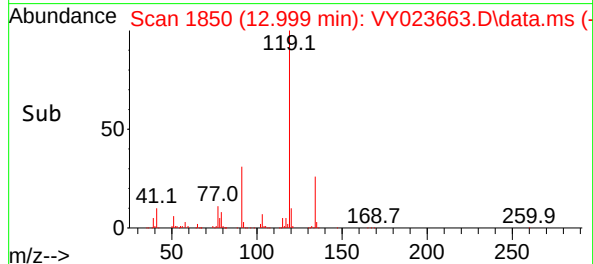
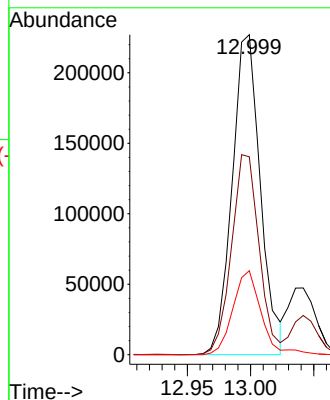
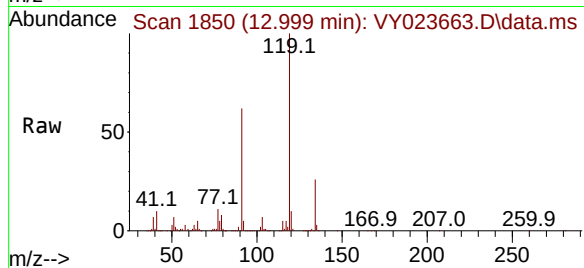
134 26.4 13.1 39.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.077 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY023663.D

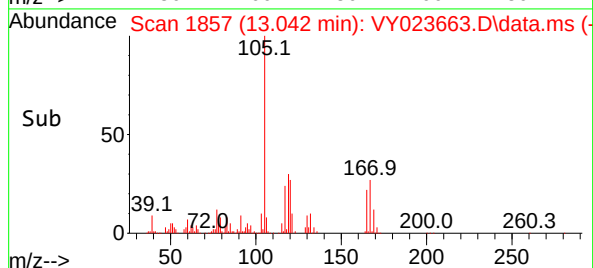
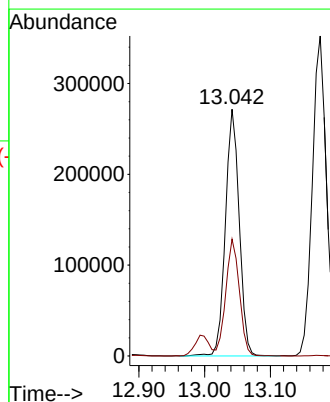
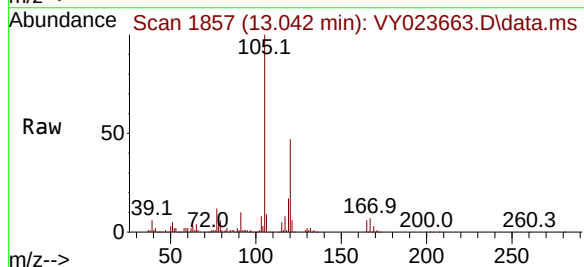
Acq: 04 Nov 2025 10:19

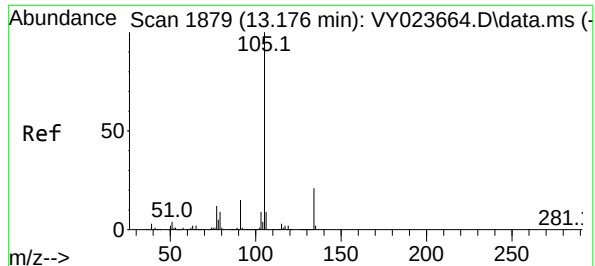
Tgt Ion:105 Resp: 397002

Ion Ratio Lower Upper

105 100

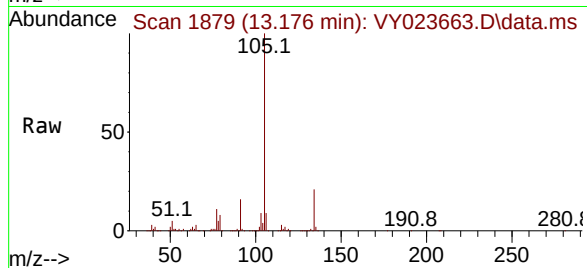
120 46.5 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 19.831 ug/l  
RT: 13.176 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

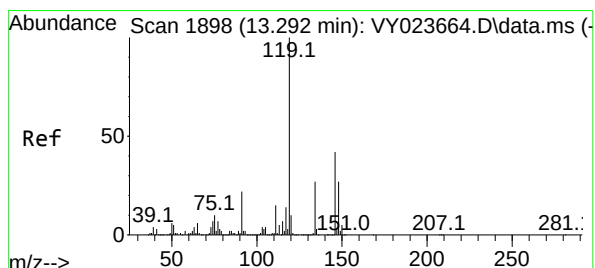
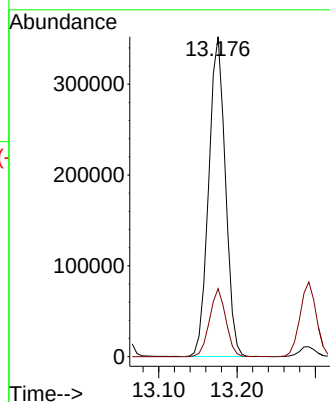
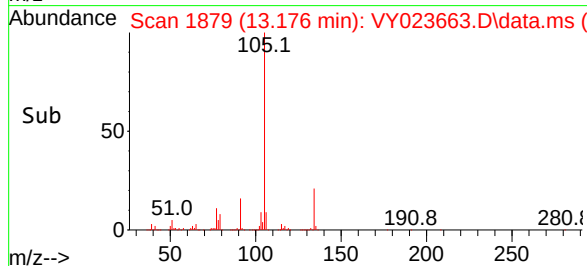
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:105 Resp: 520100  
Ion Ratio Lower Upper  
105 100  
134 20.8 10.4 31.4

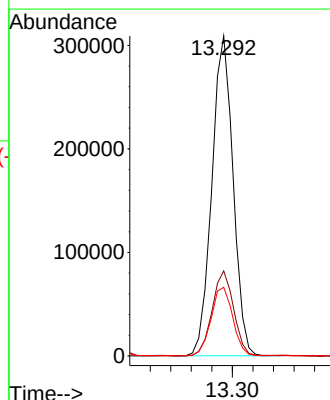
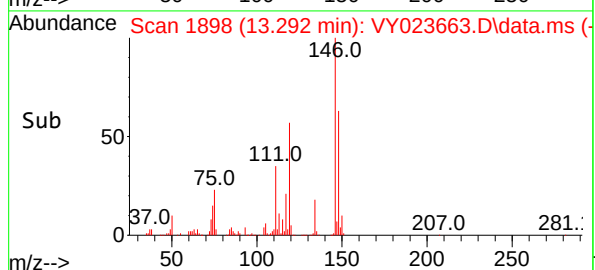
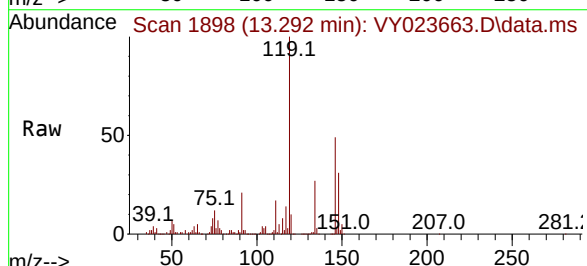
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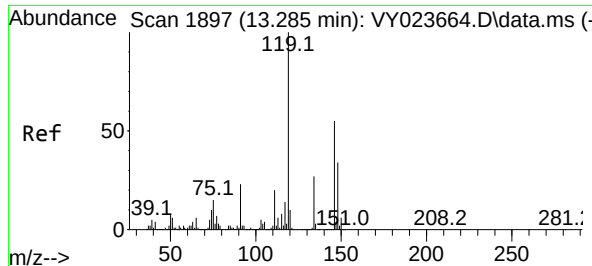
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#86  
p-Isopropyltoluene  
Concen: 19.902 ug/l  
RT: 13.292 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion:119 Resp: 441869  
Ion Ratio Lower Upper  
119 100  
134 26.9 13.4 40.2  
91 21.9 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 20.080 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 25190

Ion Ratio Lower Upper

146 100

111 37.2 18.8 56.3

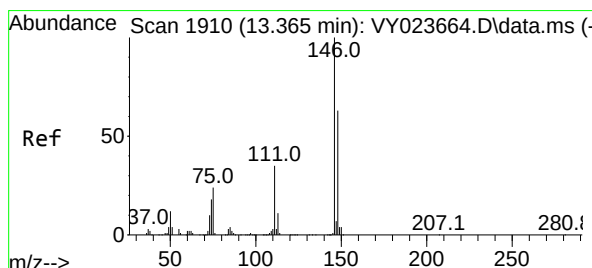
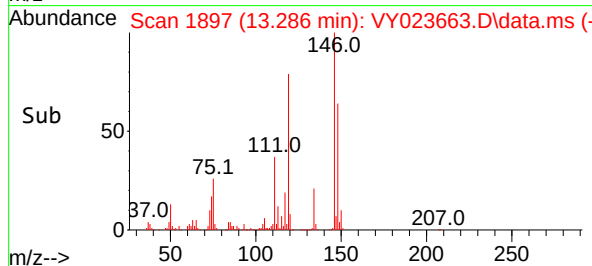
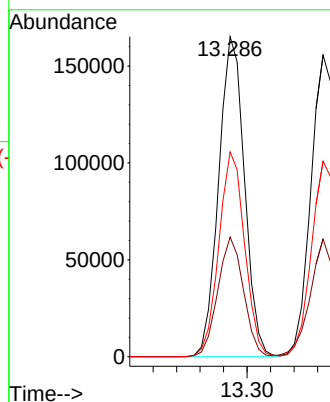
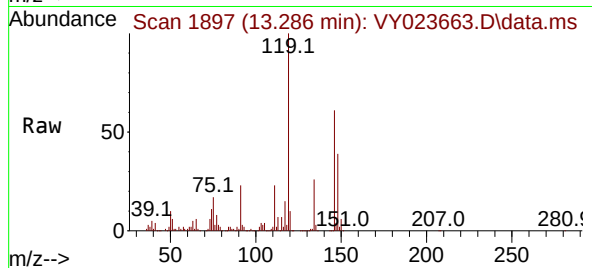
148 63.9 31.9 95.5

Manual Integrations

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Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 19.866 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

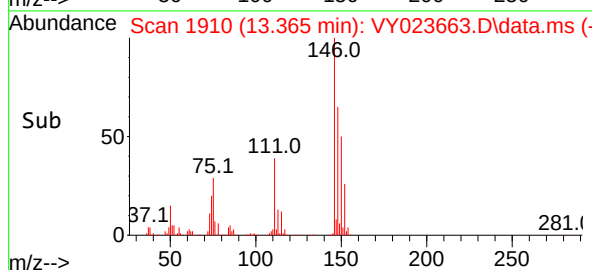
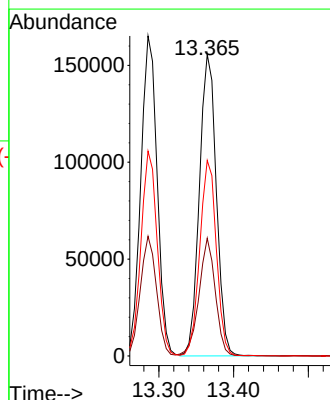
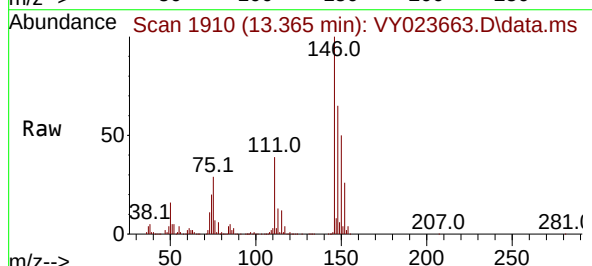
Tgt Ion:146 Resp: 244807

Ion Ratio Lower Upper

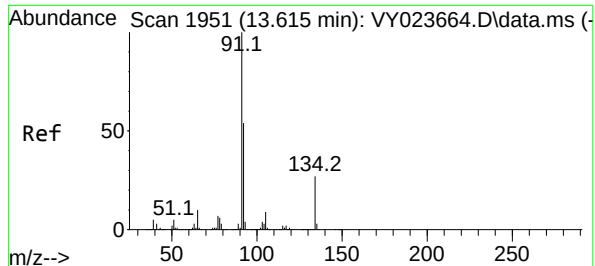
146 100

111 37.6 18.3 54.8

148 63.8 31.8 95.3







#89

n-Butylbenzene

Concen: 19.467 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023663.D

Acq: 04 Nov 2025 10:19

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 37584

Ion Ratio Lower Upper

91 100

92 53.2 26.5 79.4

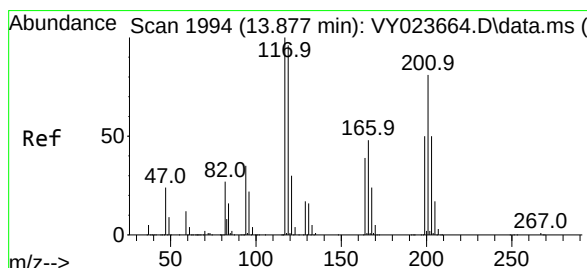
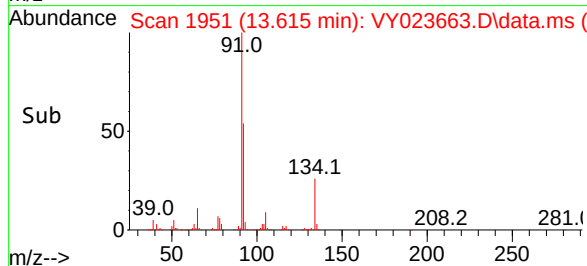
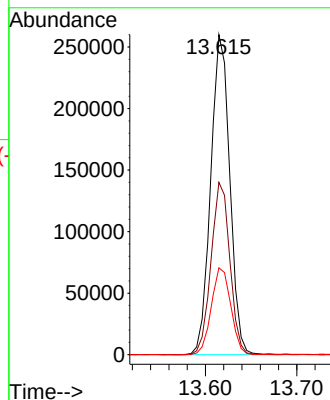
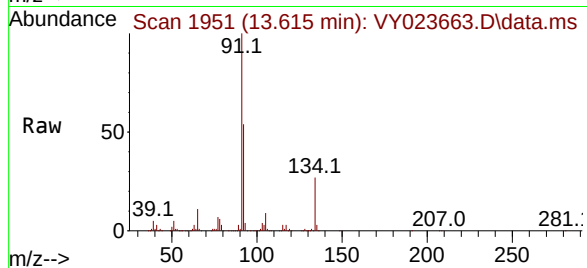
134 27.7 13.7 41.1

Manual Integrations

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Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 19.477 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023663.D

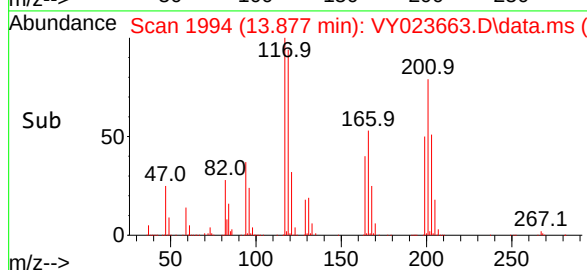
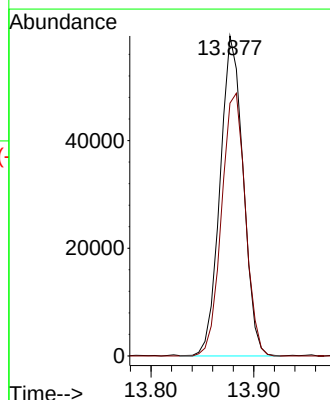
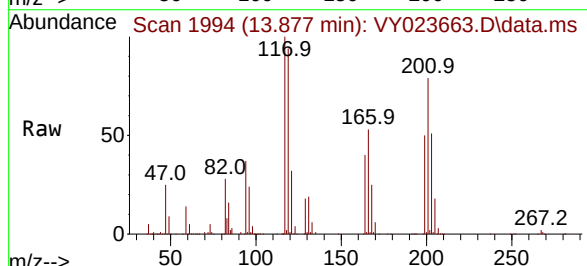
Acq: 04 Nov 2025 10:19

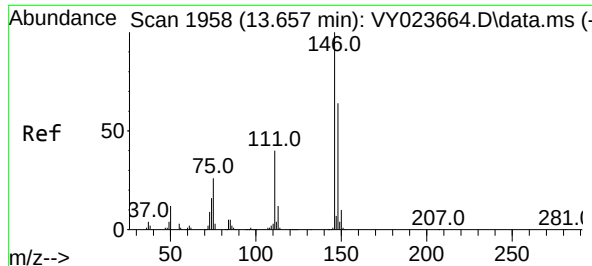
Tgt Ion:117 Resp: 92928

Ion Ratio Lower Upper

117 100

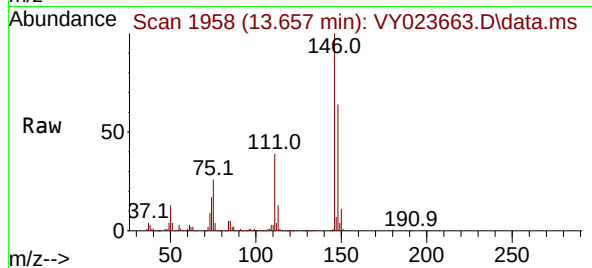
201 84.2 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 20.225 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

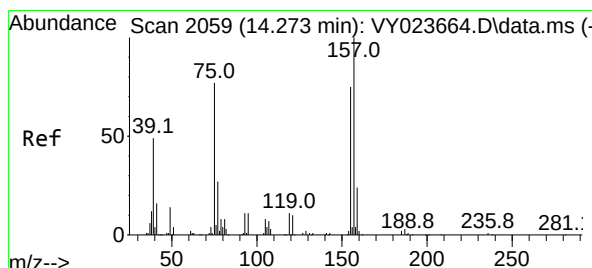
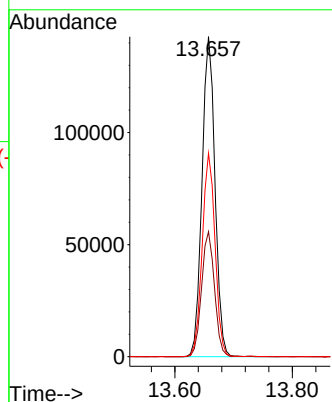
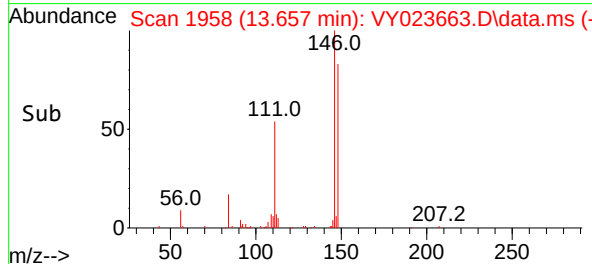
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:146 Resp: 218658  
Ion Ratio Lower Upper  
146 100  
111 38.8 19.5 58.5  
148 62.9 31.9 95.9

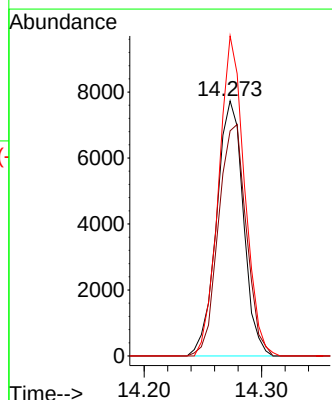
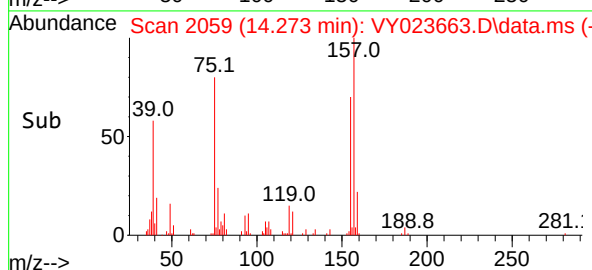
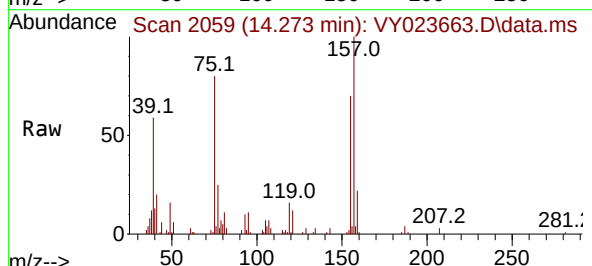
Manual Integrations  
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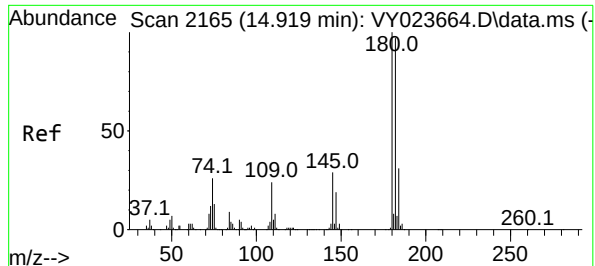
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 20.289 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

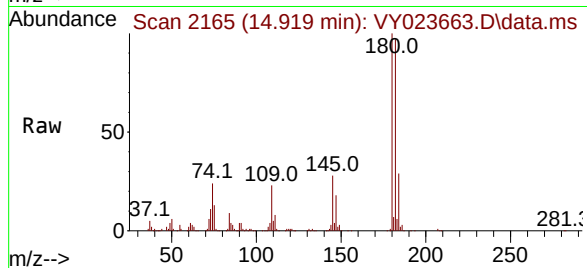
Tgt Ion: 75 Resp: 12260  
Ion Ratio Lower Upper  
75 100  
155 94.0 49.4 148.2  
157 120.7 63.2 189.8





#93  
1,2,4-Trichlorobenzene  
Concen: 19.851 ug/l  
RT: 14.919 min Scan# 2165  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

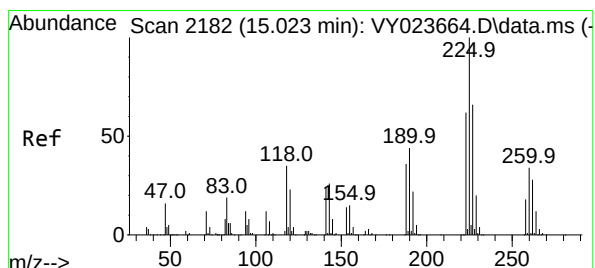
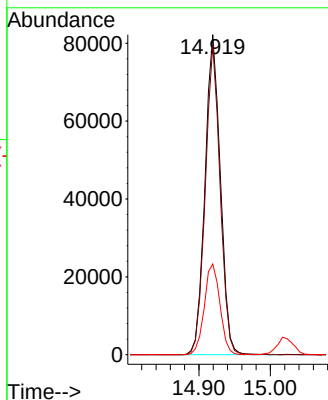
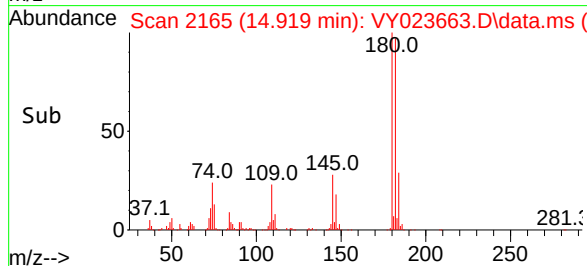
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC020



Tgt Ion:180 Resp: 122750  
Ion Ratio Lower Upper  
180 100  
182 93.5 47.5 142.6  
145 28.7 14.4 43.4

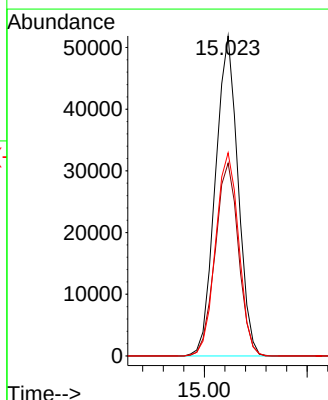
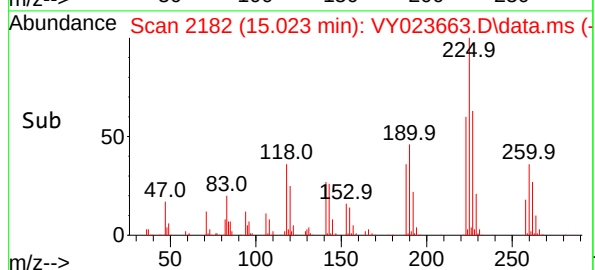
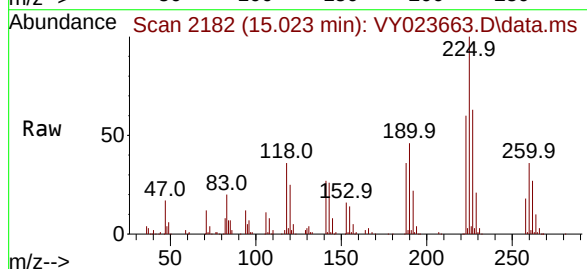
Manual Integrations  
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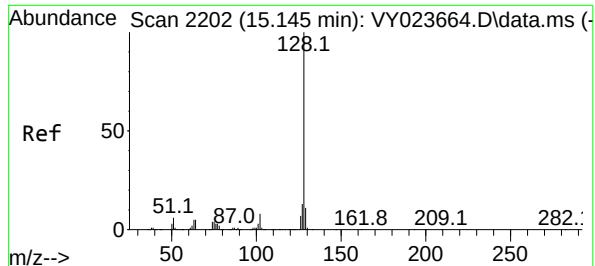
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#94  
Hexachlorobutadiene  
Concen: 19.507 ug/l  
RT: 15.023 min Scan# 2182  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

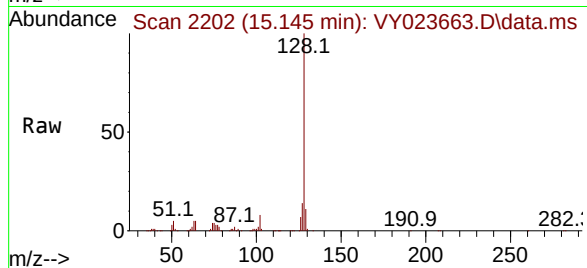
Tgt Ion:225 Resp: 79039  
Ion Ratio Lower Upper  
225 100  
223 62.0 30.8 92.3  
227 65.1 32.0 96.2





#95  
Naphthalene  
Concen: 19.694 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

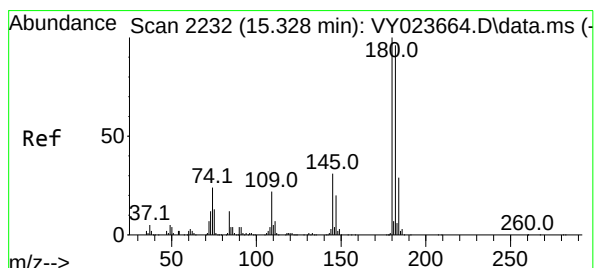
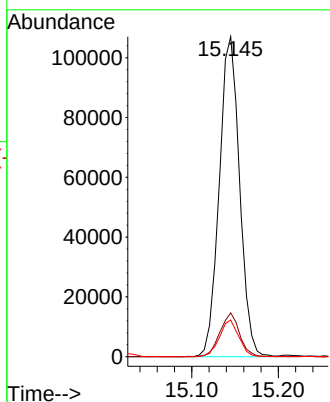
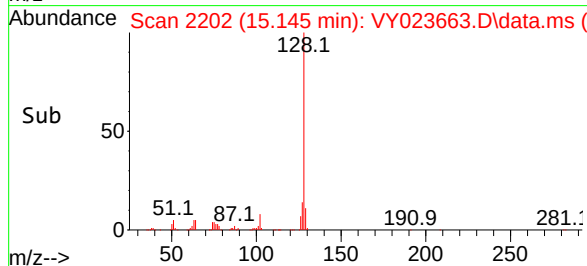
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC020



Tgt Ion:128 Resp: 174378  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.5 15.7  
129 11.0 8.8 13.2

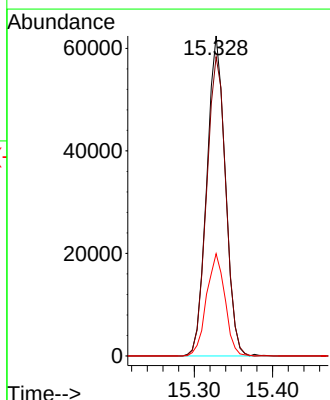
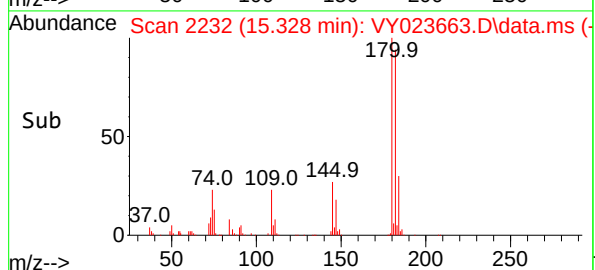
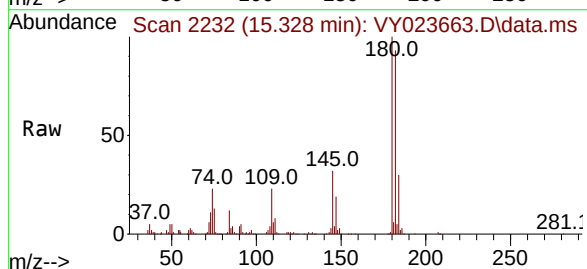
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 19.855 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023663.D  
Acq: 04 Nov 2025 10:19

Tgt Ion:180 Resp: 102582  
Ion Ratio Lower Upper  
180 100  
182 96.6 47.5 142.6  
145 31.8 15.5 46.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023664.D  
 Acq On : 04 Nov 2025 10:42  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 575867     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 844654     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 748313     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 378927     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 234526     | 47.743   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.480%  |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 261509     | 49.542   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.080%  |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 1004143    | 51.068   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 102.140% |        |          |
| 62) 4-Bromofluorobenzene     | 12.401         | 95   | 327509     | 51.505   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 103.000% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 158310     | 41.880   | ug/l   | 100      |
| 3) Chloromethane             | 2.074          | 50   | 237663     | 44.928   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 315113     | 45.779   | ug/l   | 100      |
| 5) Bromomethane              | 2.598          | 94   | 255339     | 44.099   | ug/l   | 100      |
| 6) Chloroethane              | 2.739          | 64   | 222257     | 46.718   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 448928     | 46.308   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.458          | 74   | 122314     | 47.049   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 249353     | 46.685   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 329865     | 52.300   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.866          | 59   | 65929      | 208.147  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 242599     | 47.151   | ug/l   | 100      |
| 13) Acrolein                 | 3.653          | 56   | 85009      | 208.809  | ug/l   | 100      |
| 14) Allyl chloride           | 4.385          | 41   | 303471     | 48.458   | ug/l   | 100      |
| 15) Acrylonitrile            | 5.061          | 53   | 234014     | 235.546  | ug/l   | 100      |
| 16) Acetone                  | 3.866          | 43   | 272077     | 222.826  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.110          | 76   | 741781     | 46.973   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 121078     | 44.957   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 580730     | 48.676   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.616          | 84   | 264862     | 44.934   | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 280571     | 48.364   | ug/l   | 100      |
| 22) Diisopropyl ether        | 6.025          | 45   | 703596     | 50.420   | ug/l   | 100      |
| 23) Vinyl Acetate            | 5.964          | 43   | 1877953    | 252.183  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 446287     | 48.007   | ug/l   | 100      |
| 25) 2-Butanone               | 6.896          | 43   | 319404     | 226.250  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 408039     | 47.716   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 322689     | 48.703   | ug/l   | 100      |
| 28) Bromochloromethane       | 7.244          | 49   | 167148     | 46.958   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.262          | 42   | 178179     | 236.990  | ug/l   | 100      |
| 30) Chloroform               | 7.421          | 83   | 497055     | 47.921   | ug/l   | 100      |
| 31) Cyclohexane              | 7.701          | 56   | 381239     | 47.090   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 442659     | 47.750   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 345431     | 48.973   | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.982          | 43   | 130827     | 47.912   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 402944     | 48.486   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.109          | 83   | 454885     | 50.473   | ug/l   | 100      |
| 40) Benzene                  | 8.079          | 78   | 1087048    | 48.893   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023664.D  
 Acq On : 04 Nov 2025 10:42  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 71198    | 48.884  | ug/l  | 100      |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 270723   | 48.130  | ug/l  | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 249080   | 48.549  | ug/l  | 100      |
| 44) Trichloroethene           | 8.866  | 130  | 308925   | 48.377  | ug/l  | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 239811   | 48.873  | ug/l  | 100      |
| 46) Dibromomethane            | 9.231  | 93   | 146001   | 48.022  | ug/l  | 100      |
| 47) Bromodichloromethane      | 9.420  | 83   | 374866   | 48.904  | ug/l  | 100      |
| 48) Methyl methacrylate       | 9.219  | 41   | 122935   | 50.717  | ug/l  | 100      |
| 49) 1,4-Dioxane               | 9.231  | 88   | 30413    | 977.461 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 667795   | 244.757 | ug/l  | 100      |
| 52) Toluene                   | 10.170 | 92   | 721090   | 50.801  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 326566   | 50.350  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 391126   | 50.333  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 197468   | 48.601  | ug/l  | 100      |
| 56) Ethyl methacrylate        | 10.438 | 69   | 233410   | 52.139  | ug/l  | 100      |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 317296   | 49.234  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 538181   | 261.987 | ug/l  | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 483563   | 242.927 | ug/l  | 100      |
| 60) Dibromochloromethane      | 10.908 | 129  | 275217   | 49.299  | ug/l  | 100      |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 187108   | 49.070  | ug/l  | 100      |
| 64) Tetrachloroethene         | 10.646 | 164  | 383425   | 49.228  | ug/l  | 100      |
| 65) Chlorobenzene             | 11.438 | 112  | 798384   | 49.008  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 282049   | 48.962  | ug/l  | 100      |
| 67) Ethyl Benzene             | 11.517 | 91   | 1352193  | 51.285  | ug/l  | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 1088606  | 103.340 | ug/l  | 100      |
| 69) o-Xylene                  | 11.956 | 106  | 504648   | 51.824  | ug/l  | 100      |
| 70) Styrene                   | 11.969 | 104  | 838808   | 52.208  | ug/l  | 100      |
| 71) Bromoform                 | 12.133 | 173  | 163771   | 48.678  | ug/l  | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 1311582  | 51.752  | ug/l  | 100      |
| 74) N-amyl acetate            | 12.066 | 43   | 218665   | 50.962  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 190486   | 47.061  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 141409m  | 46.111  | ug/l  |          |
| 77) Bromobenzene              | 12.530 | 156  | 326732   | 49.702  | ug/l  | 100      |
| 78) n-propylbenzene           | 12.597 | 91   | 1548019  | 51.929  | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 881152   | 50.938  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1073705  | 52.144  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 65310    | 48.129  | ug/l  | 100      |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 904469   | 50.699  | ug/l  | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 969322   | 51.686  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1068009  | 52.367  | ug/l  | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 1392655  | 51.485  | ug/l  | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1199869  | 52.399  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 641830   | 49.605  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 625847   | 49.241  | ug/l  | 100      |
| 89) n-Butylbenzene            | 13.615 | 91   | 1042799  | 52.370  | ug/l  | 100      |
| 90) Hexachloroethane          | 13.877 | 117  | 242026   | 49.183  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 550837   | 49.400  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 28889    | 46.355  | ug/l  | 100      |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 323218   | 50.677  | ug/l  | 100      |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 209077   | 50.032  | ug/l  | 100      |
| 95) Naphthalene               | 15.145 | 128  | 491886   | 44.734  | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 271777   | 51.002  | ug/l  | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023664.D  
Acq On : 04 Nov 2025 10:42  
Operator : SY/MD  
Sample : VSTDICCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

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

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

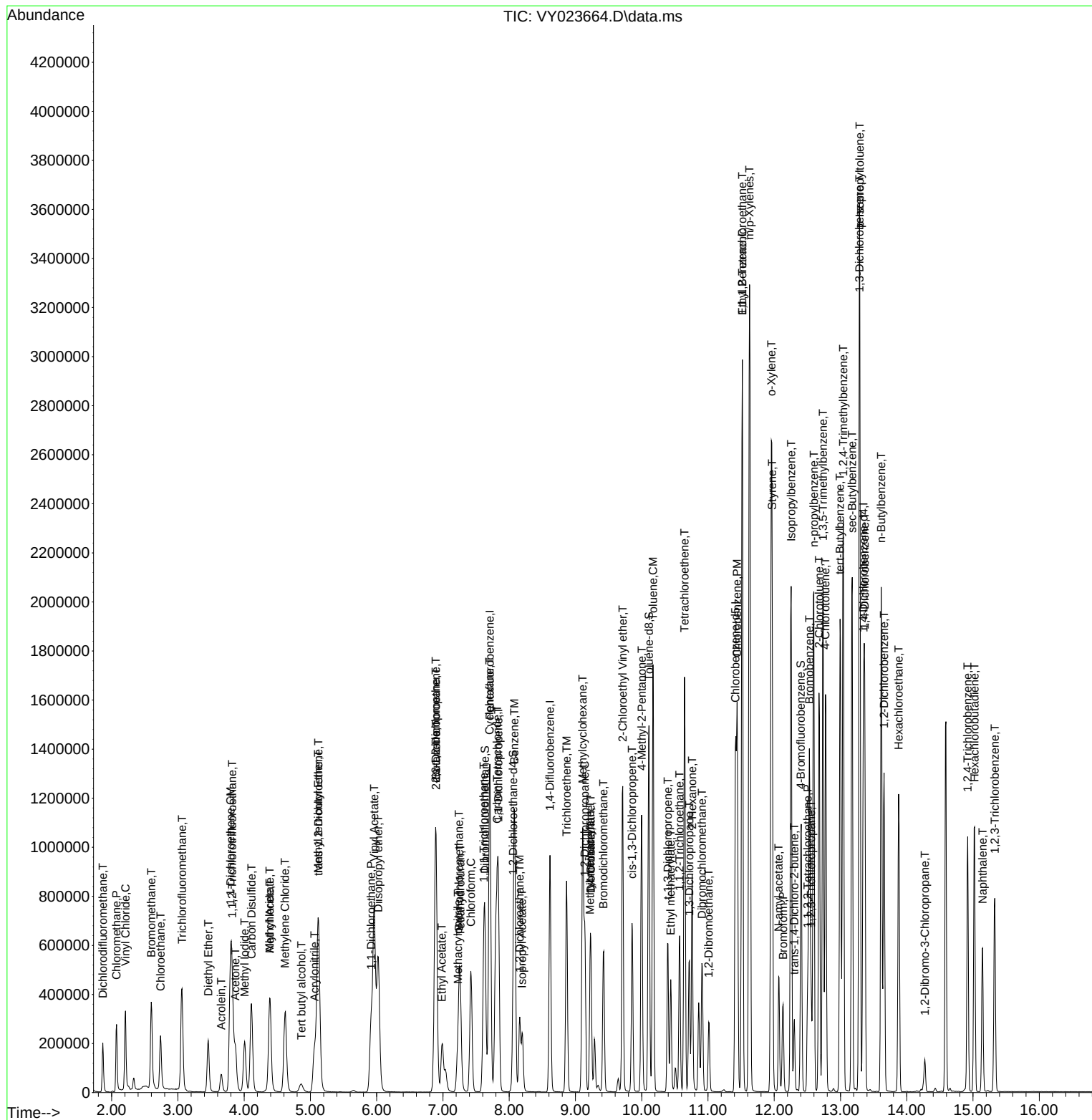
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 Data File : VY023664.D  
 Acq On : 04 Nov 2025 10:42  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

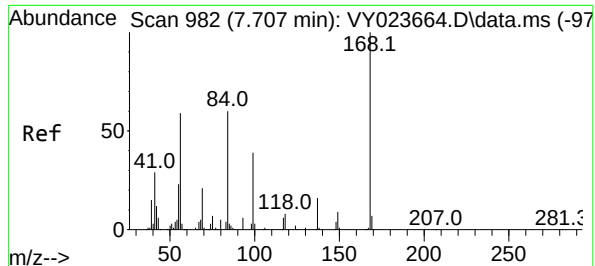
### Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:28:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

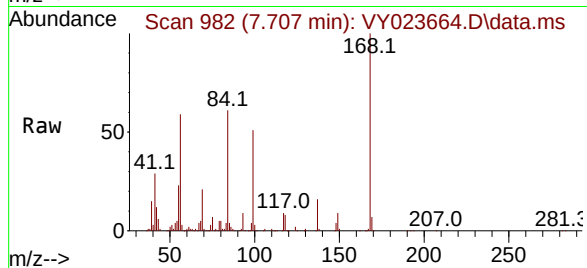






#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

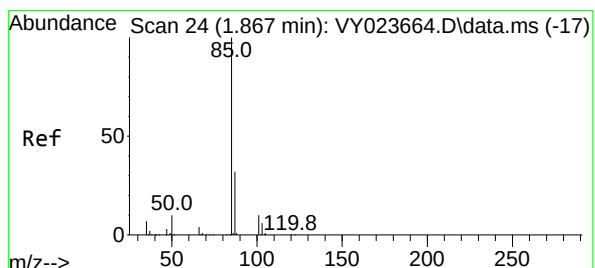
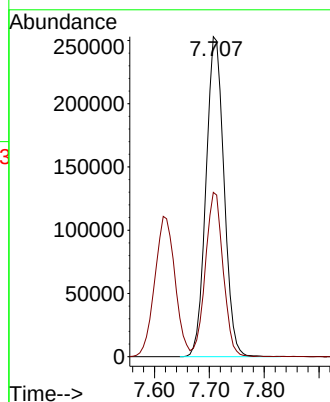
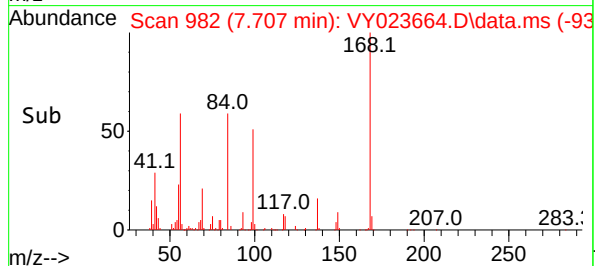
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:168 Resp: 57586  
Ion Ratio Lower Upper  
168 100  
99 51.2 41.0 61.4

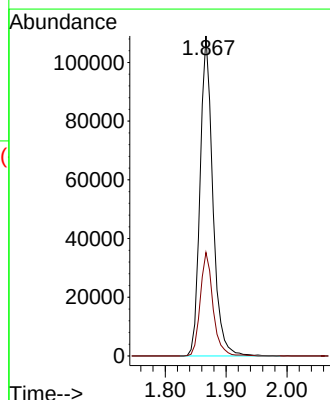
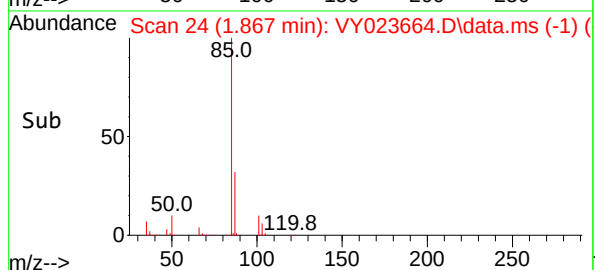
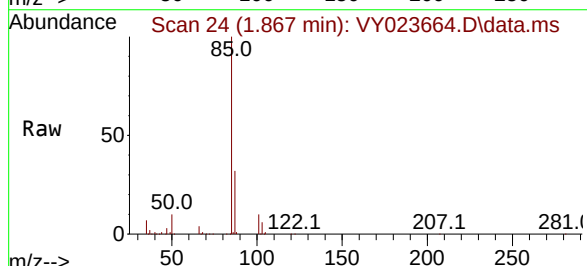
Manual Integrations  
APPROVED

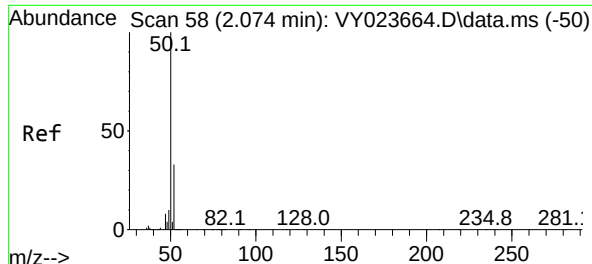
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 41.880 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

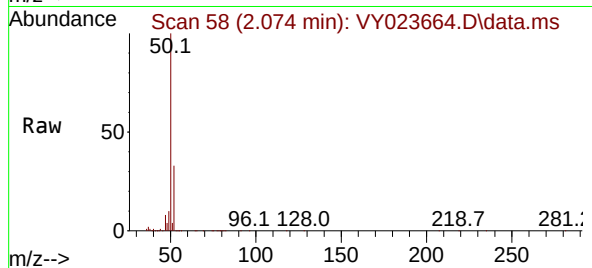
Tgt Ion: 85 Resp: 158310  
Ion Ratio Lower Upper  
85 100  
87 32.4 16.2 48.6





#3  
Chloromethane  
Concen: 44.928 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

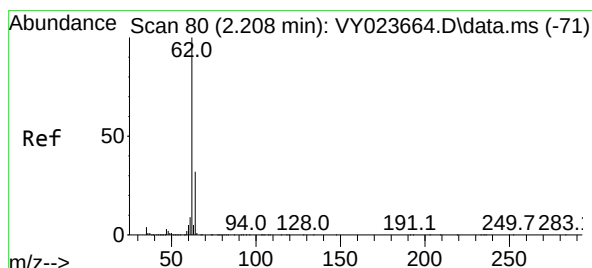
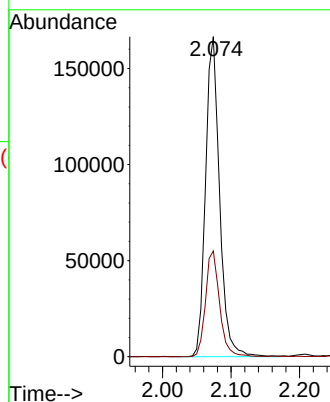
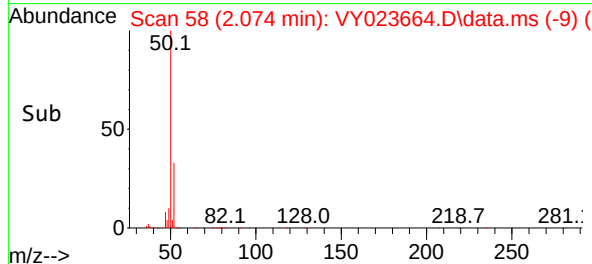
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



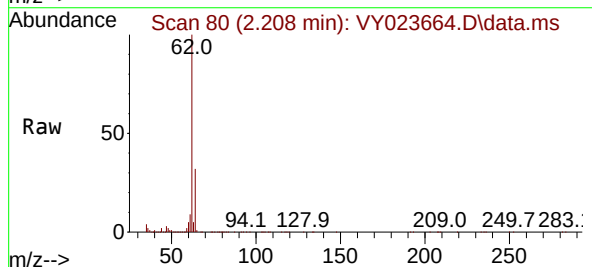
Tgt Ion: 50 Resp: 237663  
Ion Ratio Lower Upper  
50 100  
52 33.1 26.5 39.7

Manual Integrations  
APPROVED

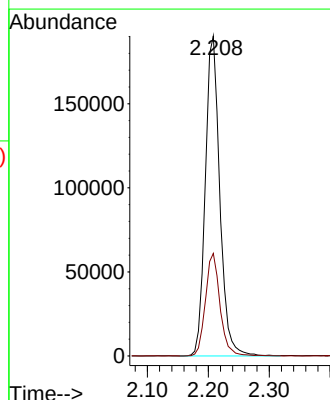
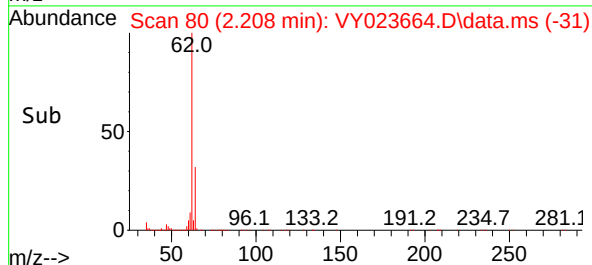
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

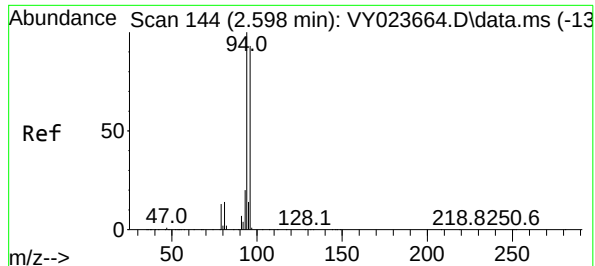


#4  
Vinyl Chloride  
Concen: 45.779 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42



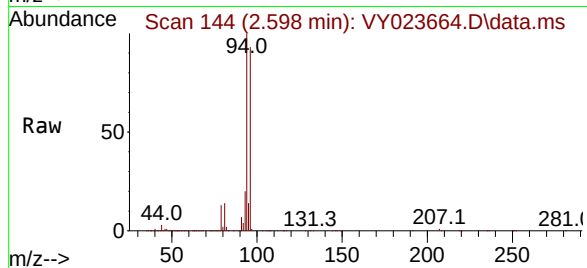
Tgt Ion: 62 Resp: 315113  
Ion Ratio Lower Upper  
62 100  
64 32.1 25.7 38.5





#5  
Bromomethane  
Concen: 44.099 ug/l  
RT: 2.598 min Scan# 144  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

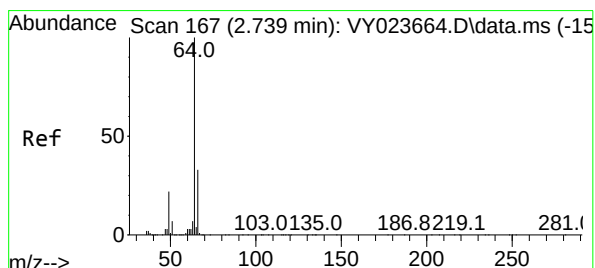
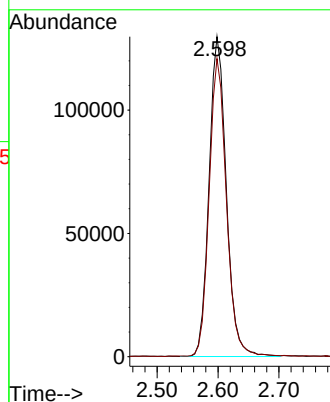
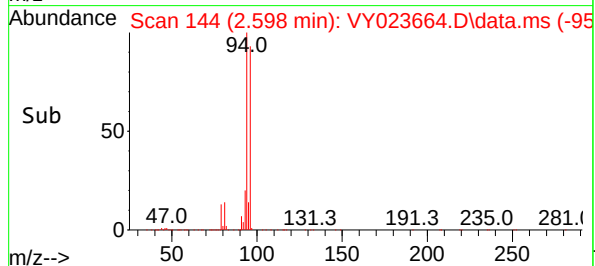
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 94 Resp: 255339  
Ion Ratio Lower Upper  
94 100  
96 93.0 74.4 111.6

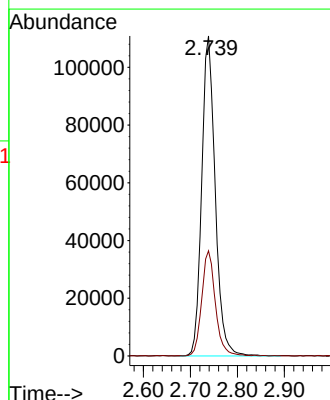
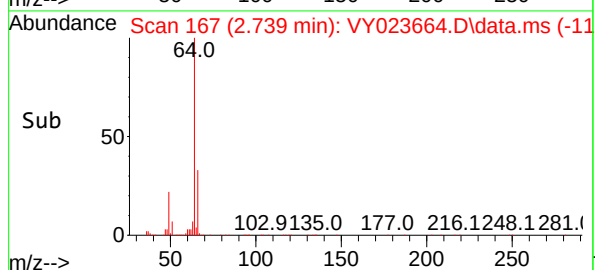
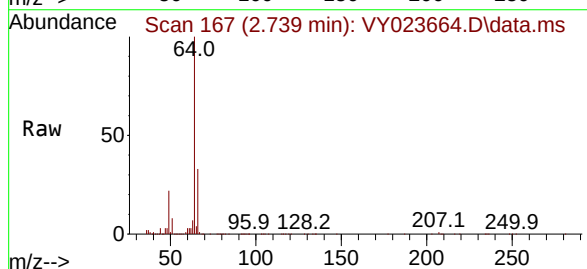
Manual Integrations  
APPROVED

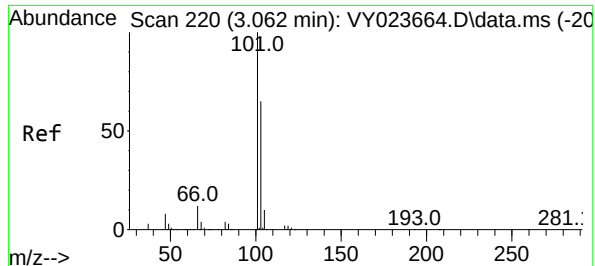
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#6  
Chloroethane  
Concen: 46.718 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

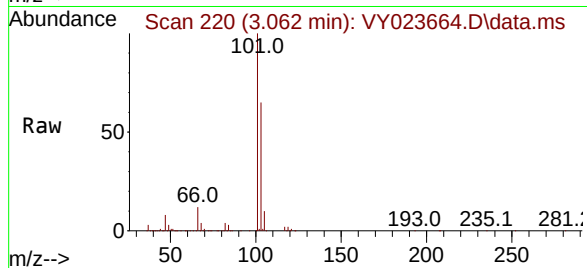
Tgt Ion: 64 Resp: 222257  
Ion Ratio Lower Upper  
64 100  
66 32.8 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 46.308 ug/l  
RT: 3.062 min Scan# 220  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

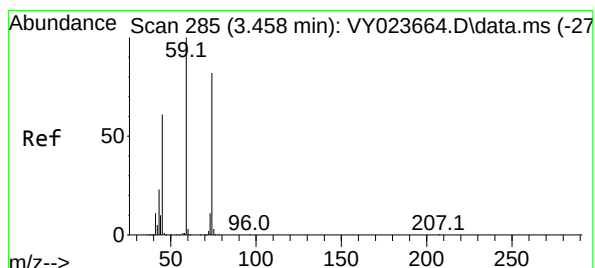
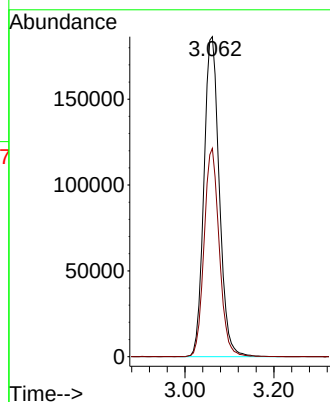
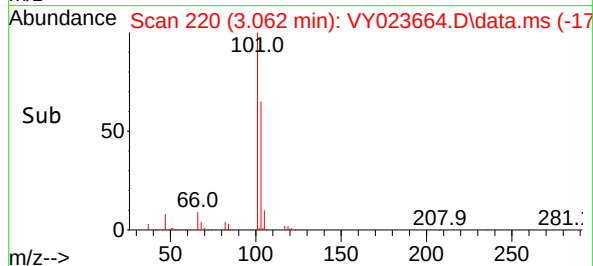
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:101 Resp: 448928  
Ion Ratio Lower Upper  
101 100  
103 65.1 52.1 78.1

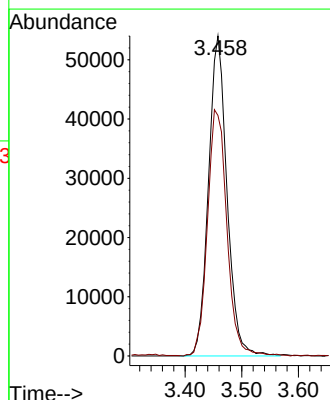
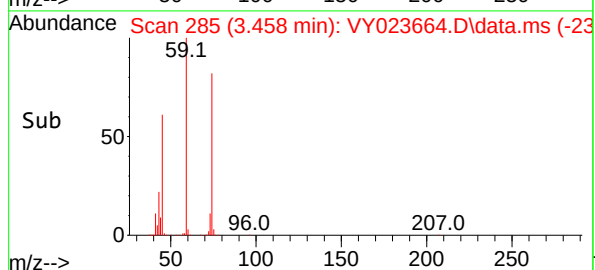
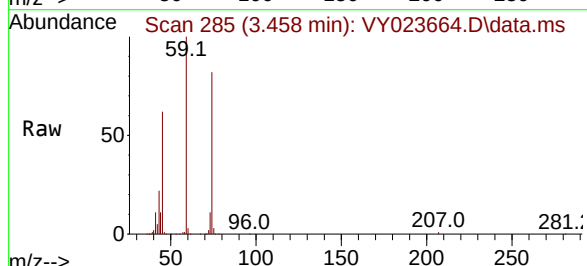
Manual Integrations  
APPROVED

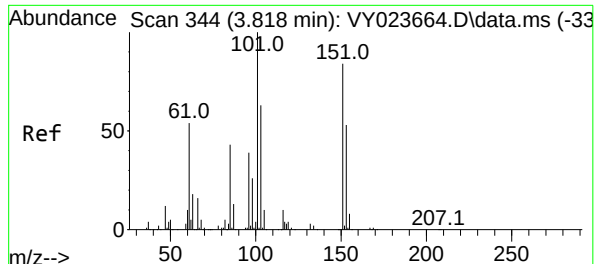
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#8  
Diethyl Ether  
Concen: 47.049 ug/l  
RT: 3.458 min Scan# 285  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 74 Resp: 122314  
Ion Ratio Lower Upper  
74 100  
45 81.1 40.6 121.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.685 ug/l

RT: 3.818 min Scan# 344

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 24935

Ion Ratio Lower Upper

101 100

85 43.0 34.4 51.6

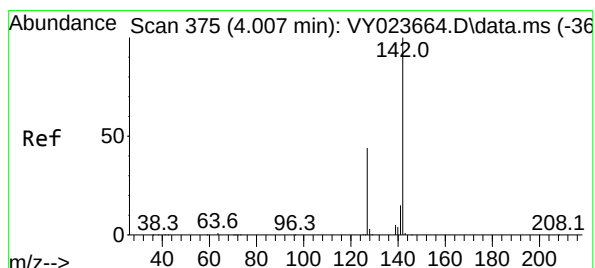
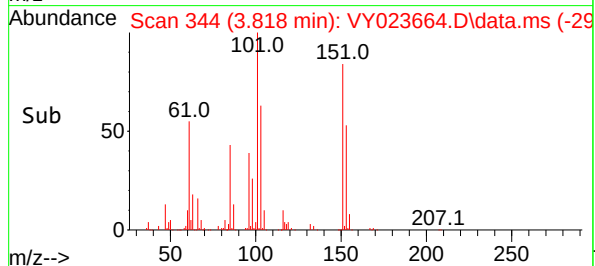
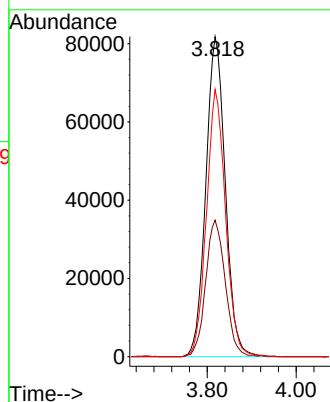
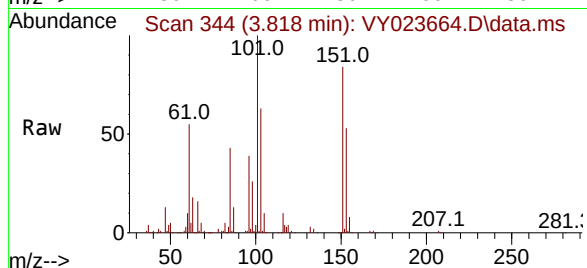
151 82.0 65.6 98.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#10

Methyl Iodide

Concen: 52.300 ug/l

RT: 4.007 min Scan# 375

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

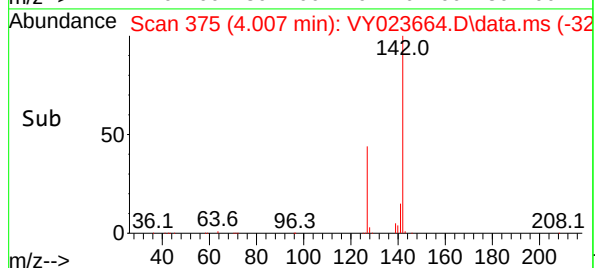
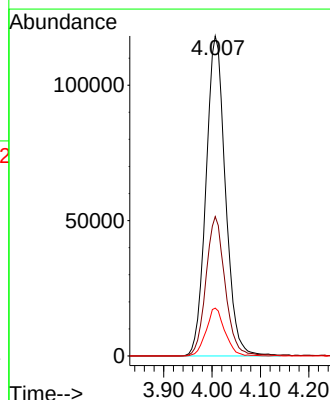
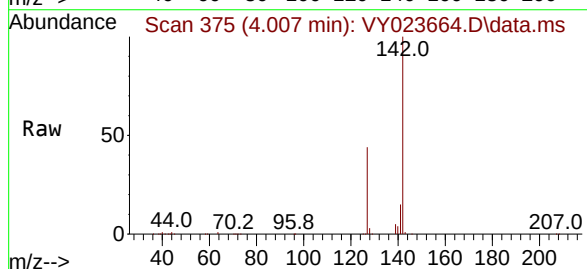
Tgt Ion:142 Resp: 329865

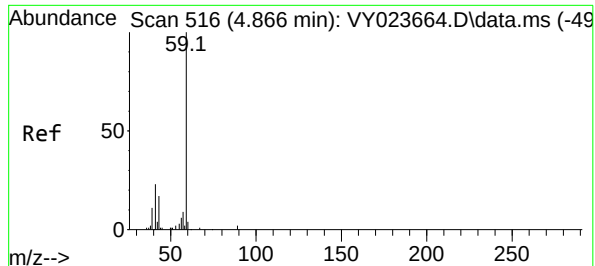
Ion Ratio Lower Upper

142 100

127 43.2 34.6 51.8

141 14.5 11.6 17.4





#11

Tert butyl alcohol

Concen: 208.147 ug/l

RT: 4.866 min Scan# 516

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 65929

Ion Ratio Lower Upper

59 100

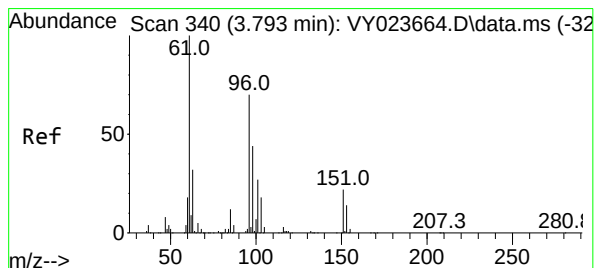
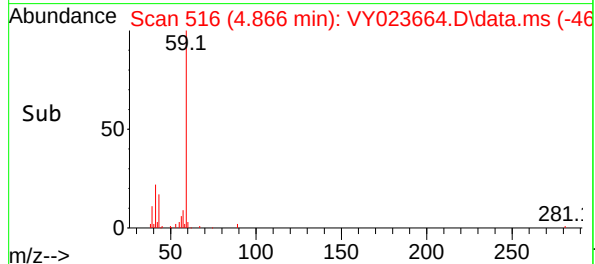
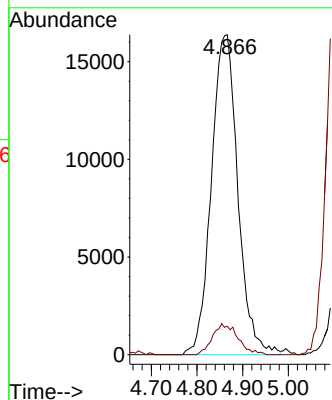
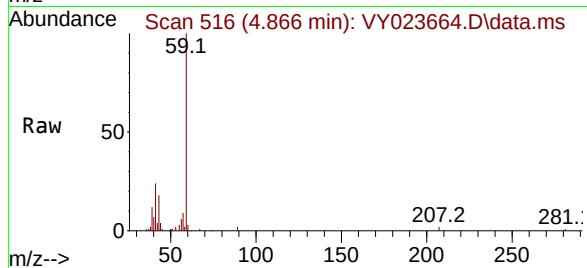
57 9.3 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 47.151 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

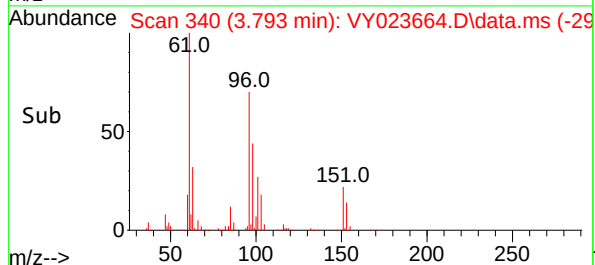
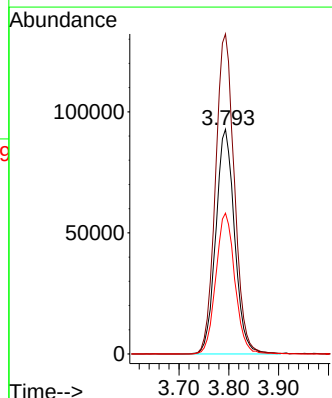
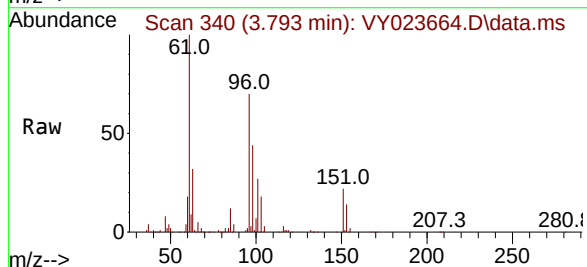
Tgt Ion: 96 Resp: 242599

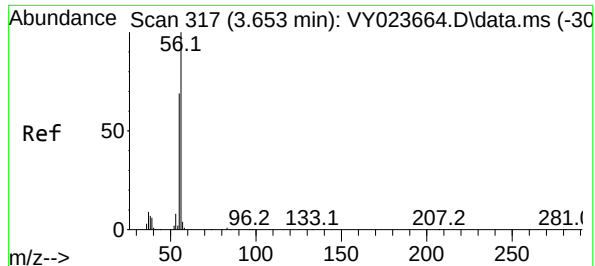
Ion Ratio Lower Upper

96 100

61 142.5 114.0 171.0

98 62.7 50.2 75.2





#13

Acrolein

Concen: 208.809 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 85009

Ion Ratio Lower Upper

56 100

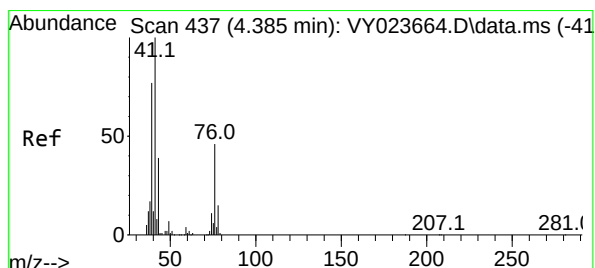
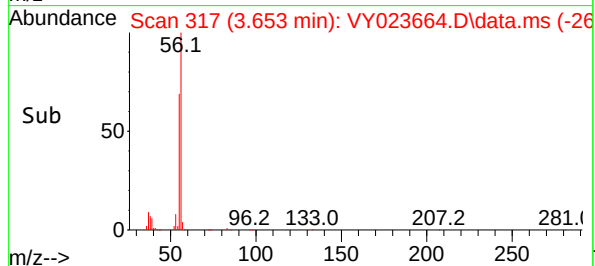
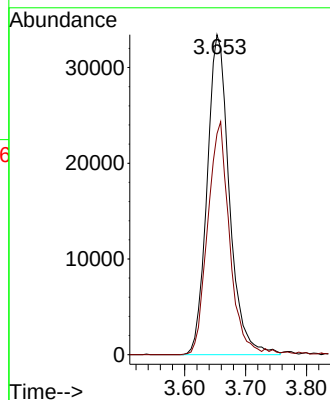
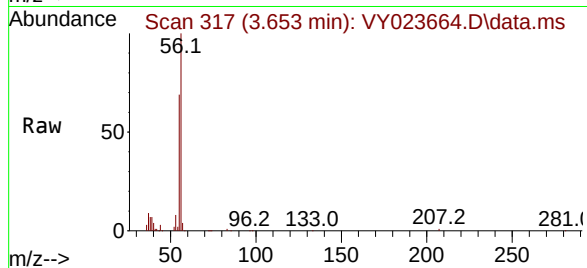
55 70.7 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 48.458 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

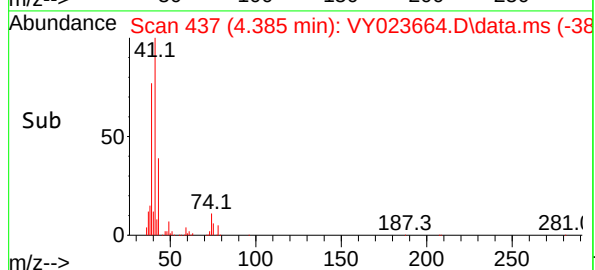
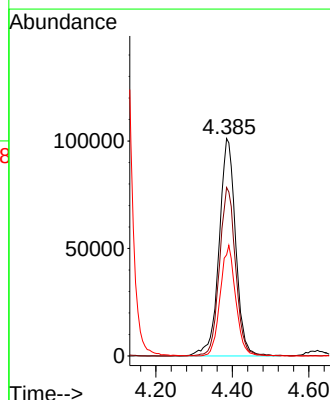
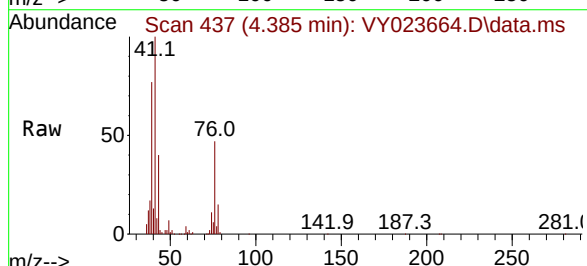
Tgt Ion: 41 Resp: 303471

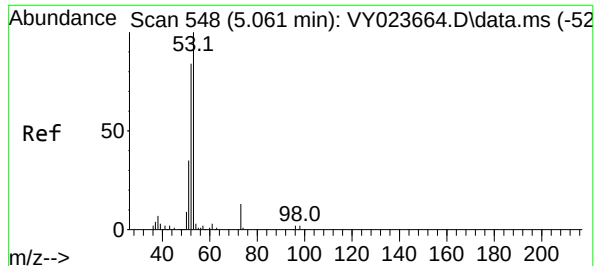
Ion Ratio Lower Upper

41 100

39 75.5 60.4 90.6

76 47.5 38.0 57.0





#15

Acrylonitrile

Concen: 235.546 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 234014

Ion Ratio Lower Upper

53 100

52 81.1 64.9 97.3

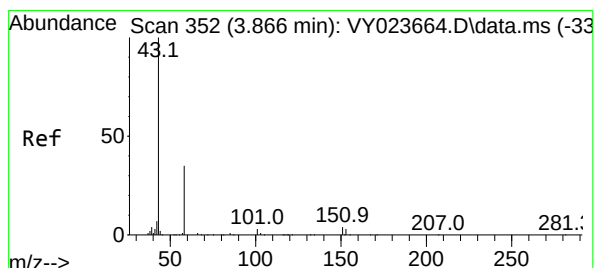
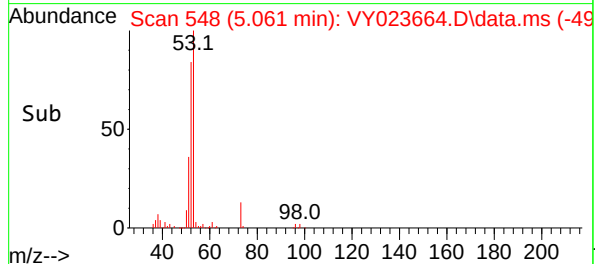
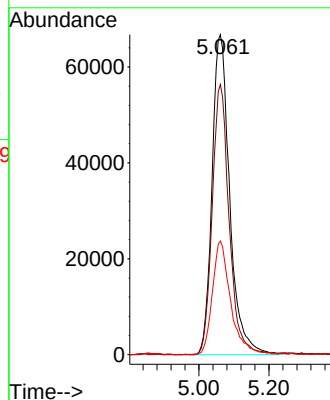
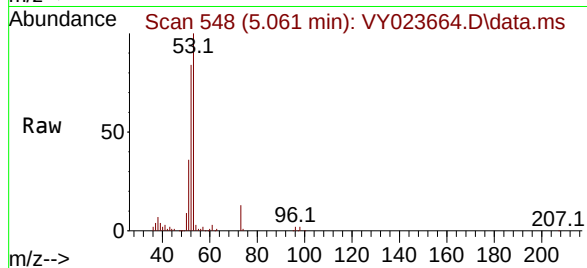
51 36.7 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 222.826 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023664.D

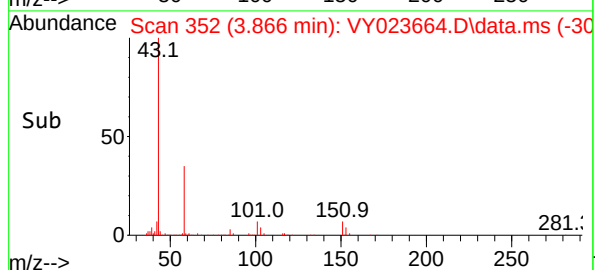
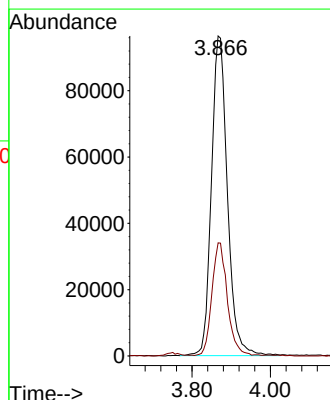
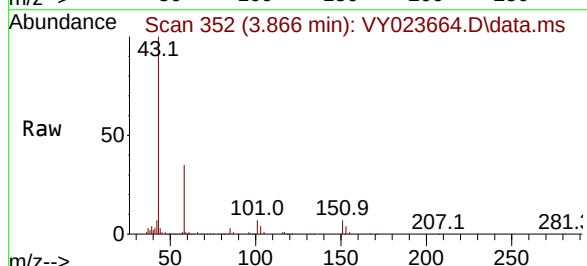
Acq: 04 Nov 2025 10:42

Tgt Ion: 43 Resp: 272077

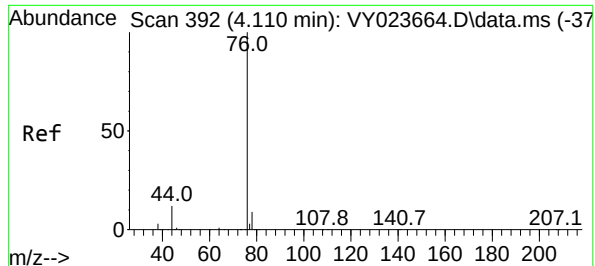
Ion Ratio Lower Upper

43 100

58 35.3 28.2 42.4







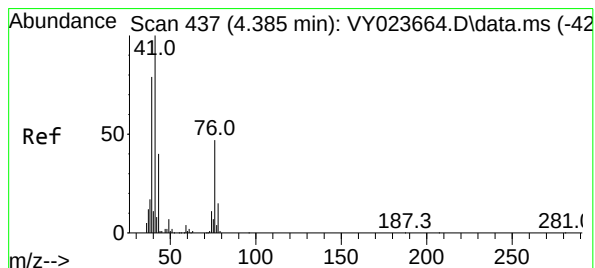
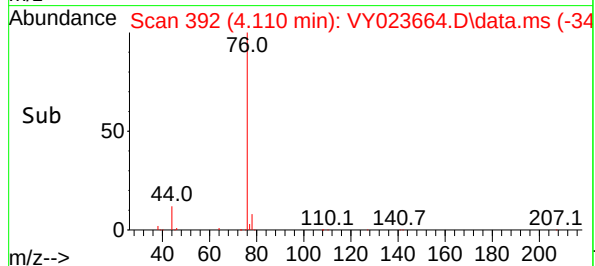
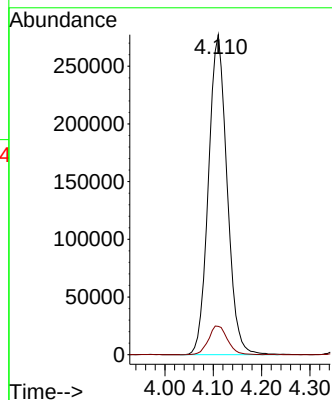
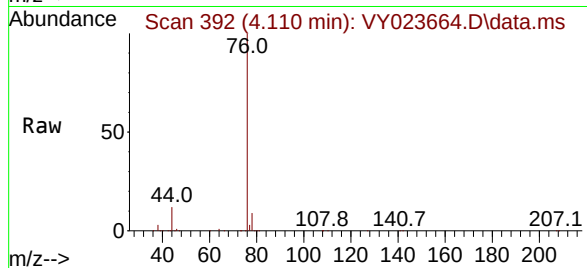
#17  
Carbon Disulfide  
Concen: 46.973 ug/l  
RT: 4.110 min Scan# 392  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 76 Resp: 74178  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.1 10.7

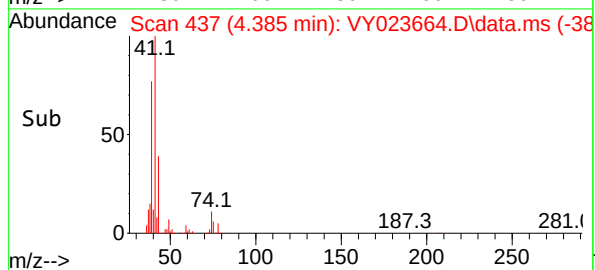
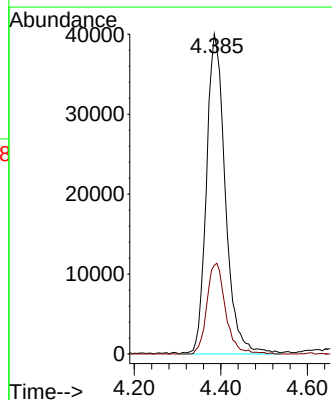
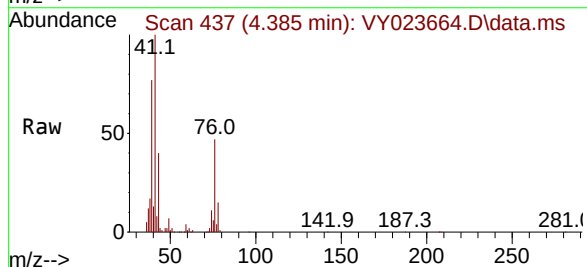
Manual Integrations  
APPROVED

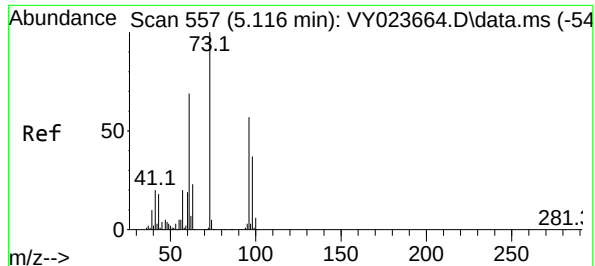
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#18  
Methyl Acetate  
Concen: 44.957 ug/l  
RT: 4.385 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 43 Resp: 121078  
Ion Ratio Lower Upper  
43 100  
74 28.1 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 48.676 ug/l

RT: 5.116 min Scan# 557

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 580730

Ion Ratio Lower Upper

73 100

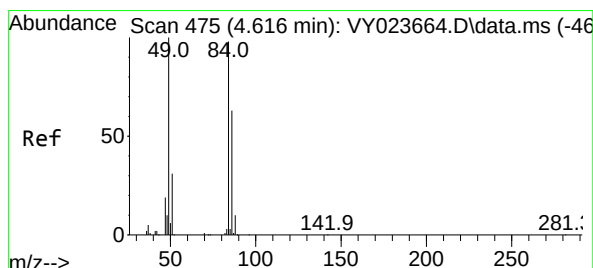
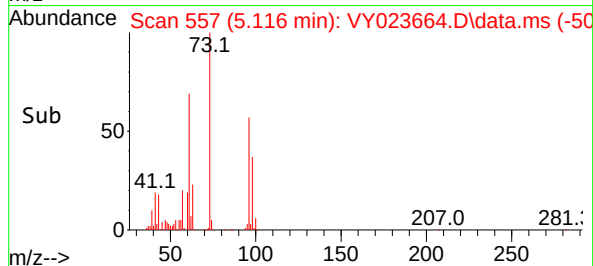
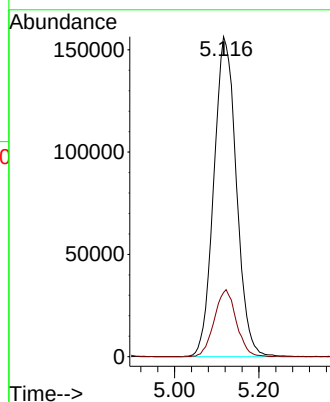
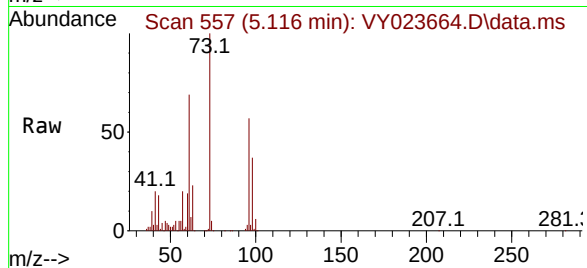
57 20.1 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 44.934 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Tgt Ion: 84 Resp: 264862

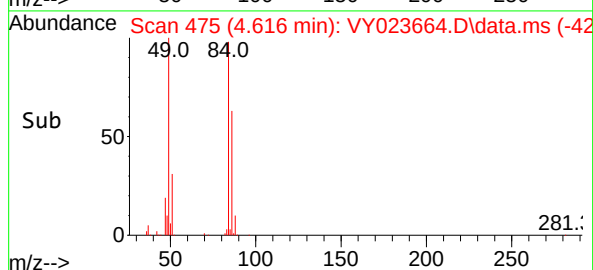
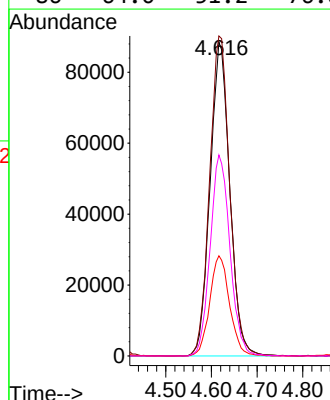
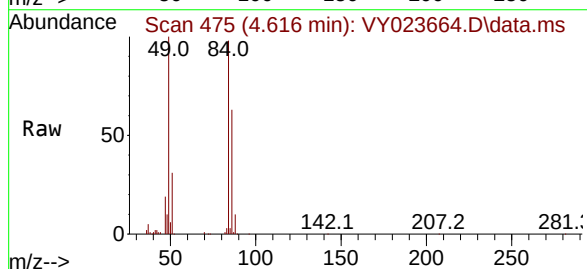
Ion Ratio Lower Upper

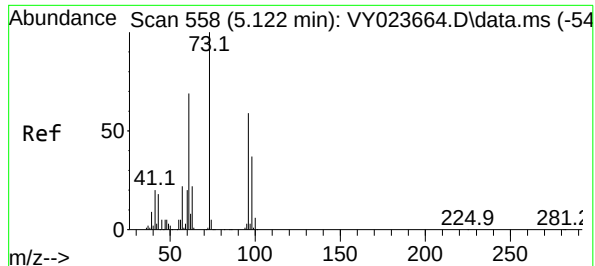
84 100

49 101.9 81.5 122.3

51 31.9 25.5 38.3

86 64.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 48.364 ug/l

RT: 5.122 min Scan# 558

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 28057

Ion Ratio Lower Upper

96 100

61 116.6 93.3 139.9

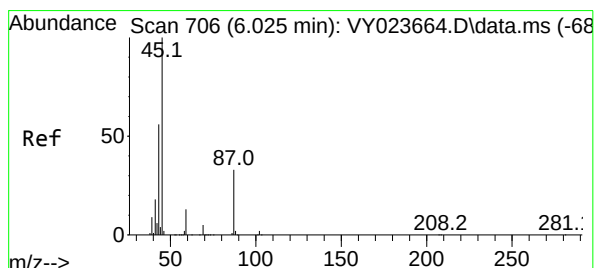
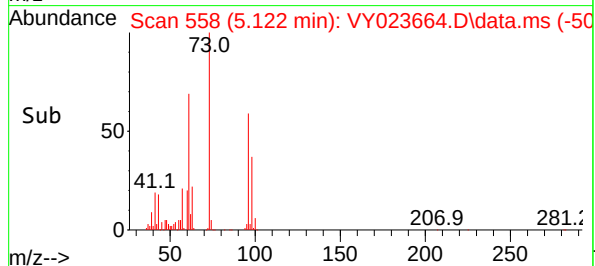
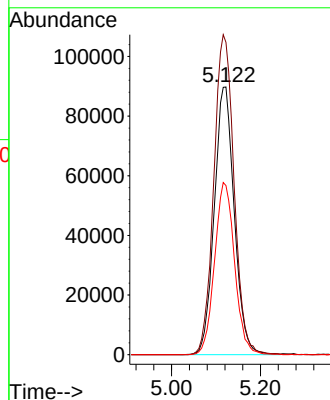
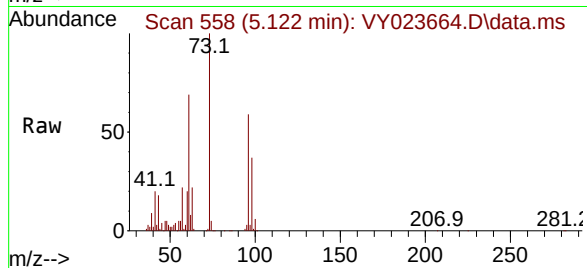
98 63.2 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 50.420 ug/l

RT: 6.025 min Scan# 706

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Tgt Ion: 45 Resp: 703596

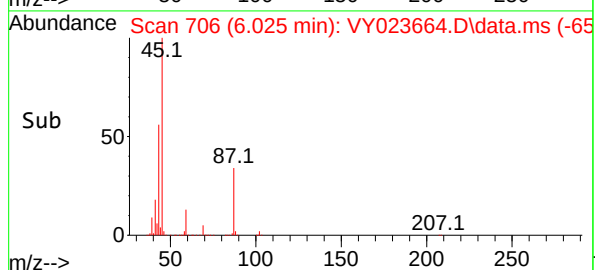
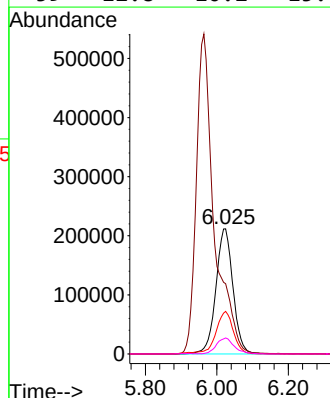
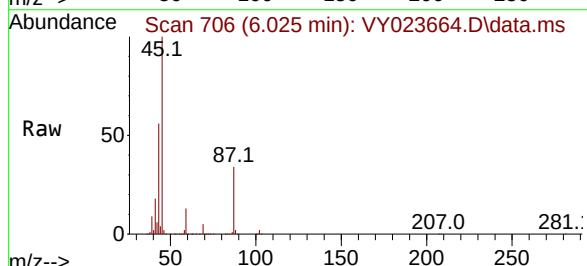
Ion Ratio Lower Upper

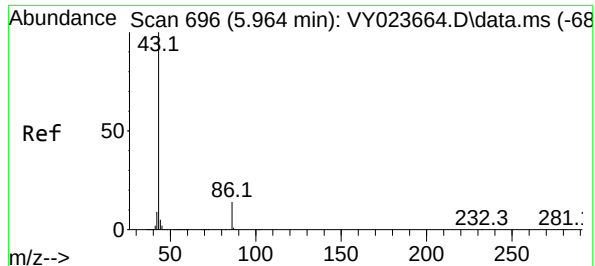
45 100

43 55.9 44.7 67.1

87 34.0 27.2 40.8

59 12.8 10.2 15.4





#23

Vinyl Acetate

Concen: 252.183 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 187795

Ion Ratio Lower Upper

43

100

86

13.6

10.9

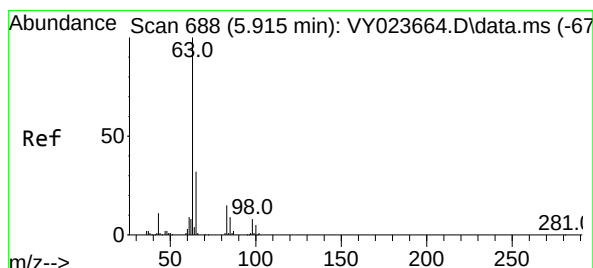
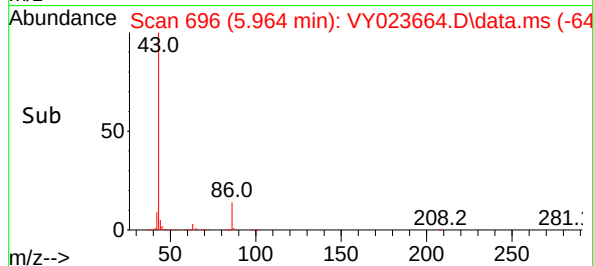
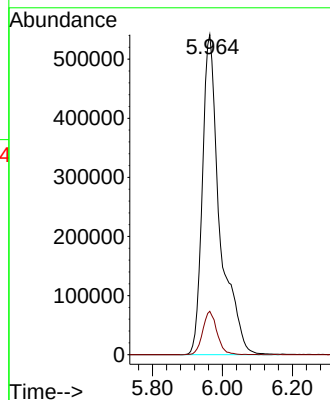
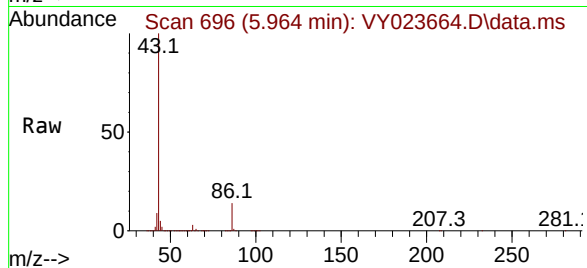
16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 48.007 ug/l

RT: 5.915 min Scan# 688

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Tgt Ion: 63 Resp: 446287

Ion Ratio Lower Upper

63

100

98

7.9

4.0

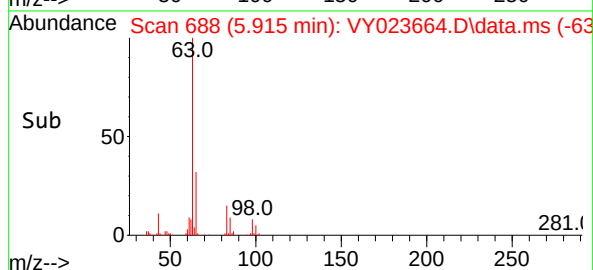
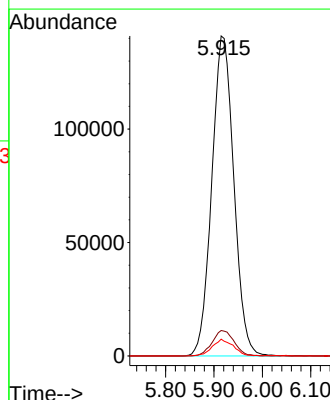
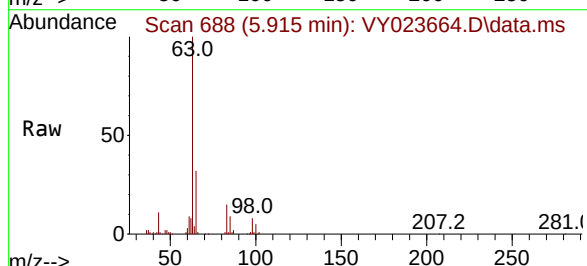
11.9

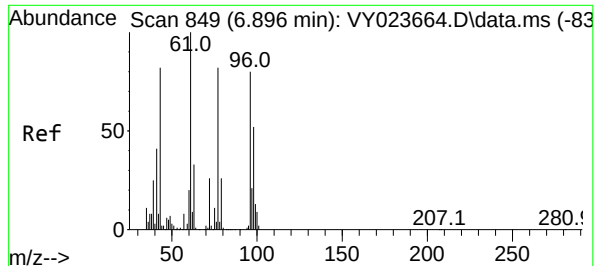
100

5.2

2.6

7.8





#25

2-Butanone

Concen: 226.250 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 319404

Ion Ratio Lower Upper

43 100

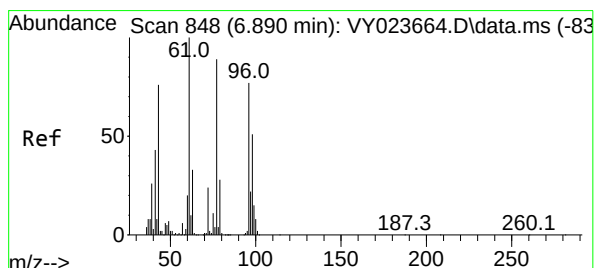
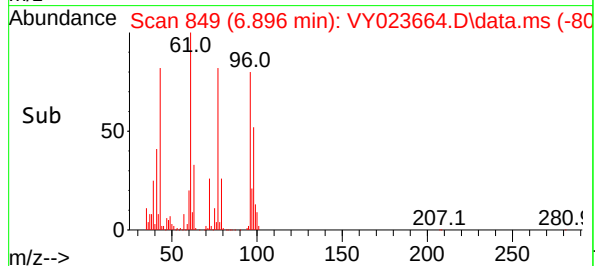
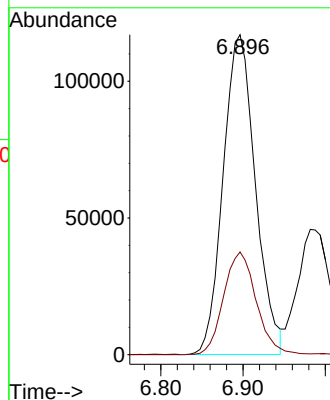
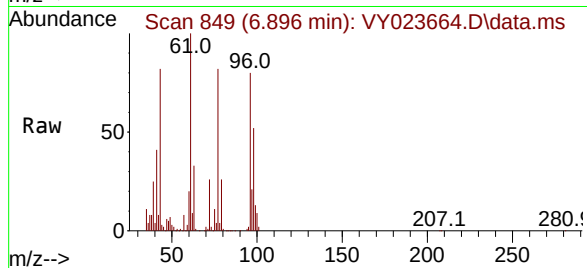
72 32.1 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 47.716 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023664.D

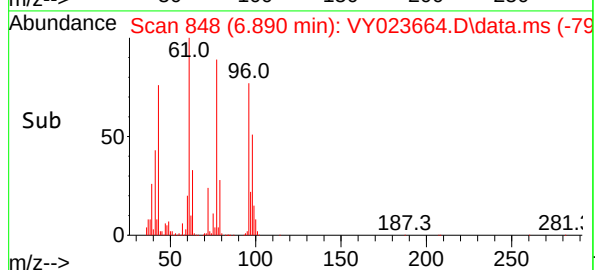
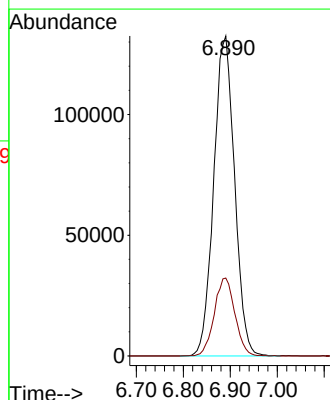
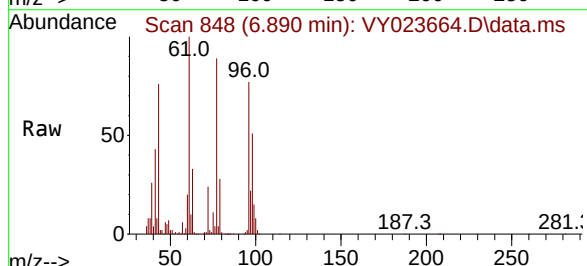
Acq: 04 Nov 2025 10:42

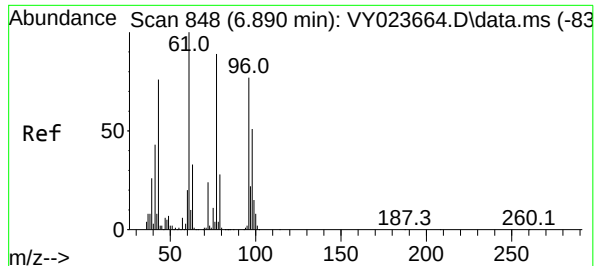
Tgt Ion: 77 Resp: 408039

Ion Ratio Lower Upper

77 100

97 24.1 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 48.703 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 322689

Ion Ratio Lower Upper

96 100

61 127.5 0.0 255.0

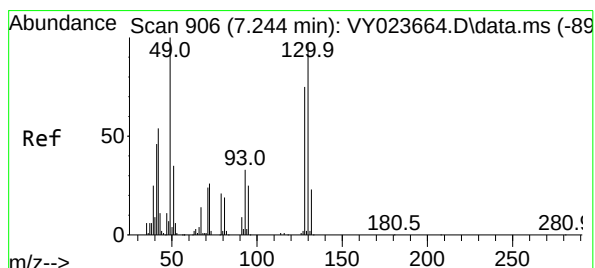
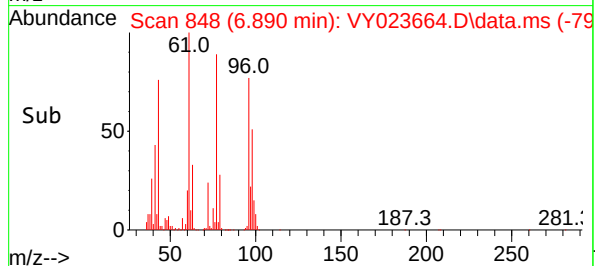
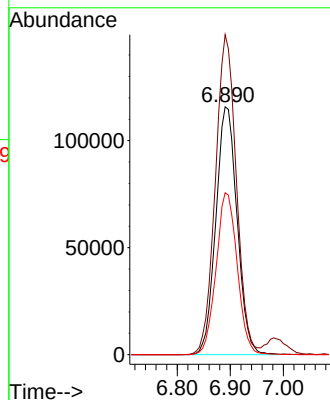
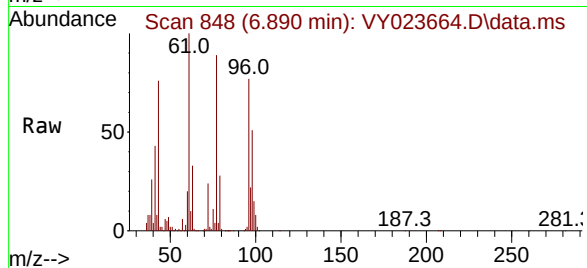
98 64.9 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 46.958 ug/l

RT: 7.244 min Scan# 906

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

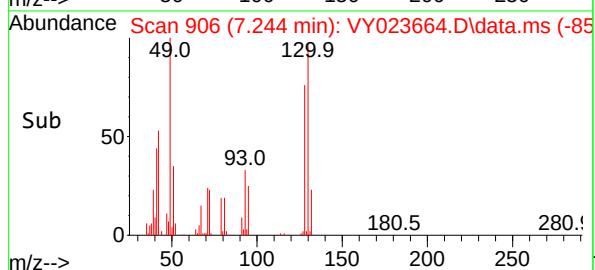
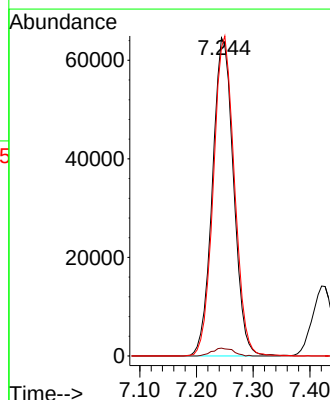
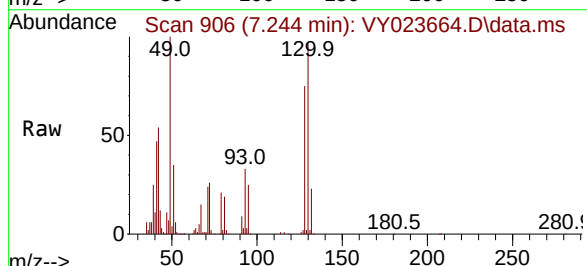
Tgt Ion: 49 Resp: 167148

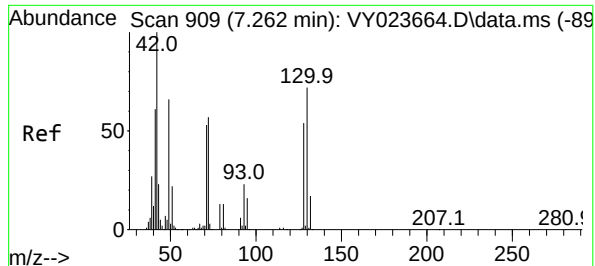
Ion Ratio Lower Upper

49 100

129 2.5 0.0 5.0

130 100.1 80.1 120.1





#29

Tetrahydrofuran

Concen: 236.990 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 178179

Ion Ratio Lower Upper

42 100

72 54.3 43.4 65.2

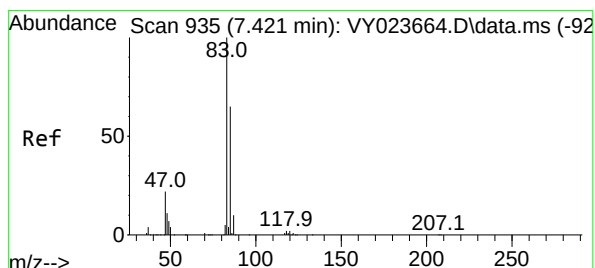
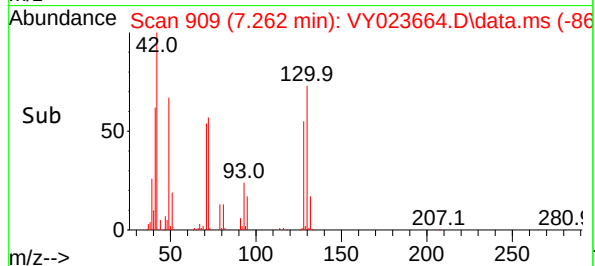
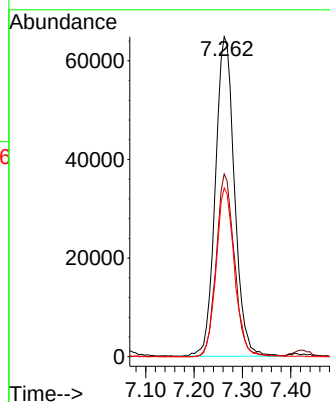
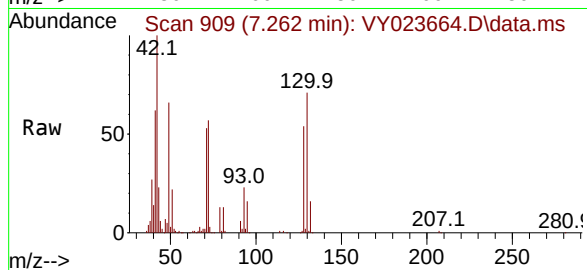
71 50.9 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 47.921 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023664.D

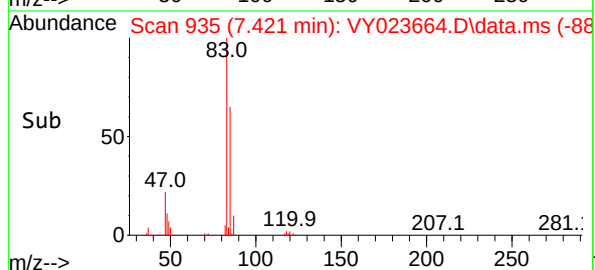
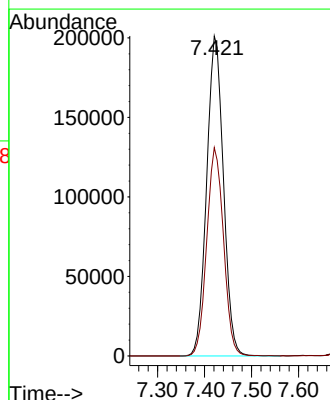
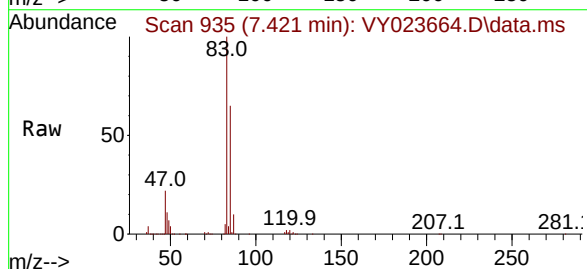
Acq: 04 Nov 2025 10:42

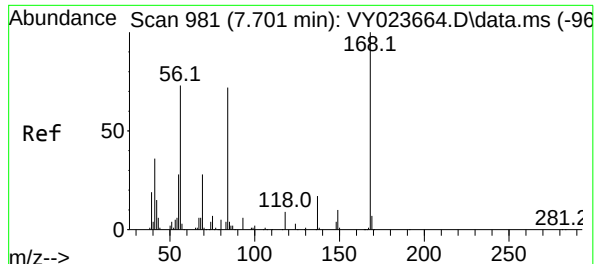
Tgt Ion: 83 Resp: 497055

Ion Ratio Lower Upper

83 100

85 65.1 52.1 78.1





#31

Cyclohexane

Concen: 47.090 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 381239

Ion Ratio Lower Upper

56 100

69 38.1 30.5 45.7

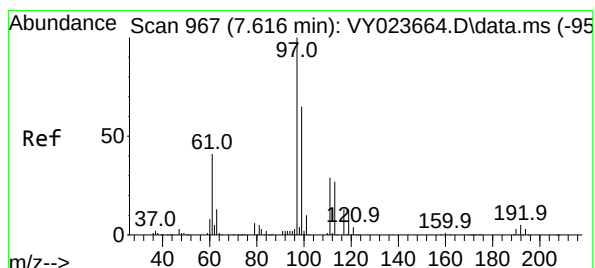
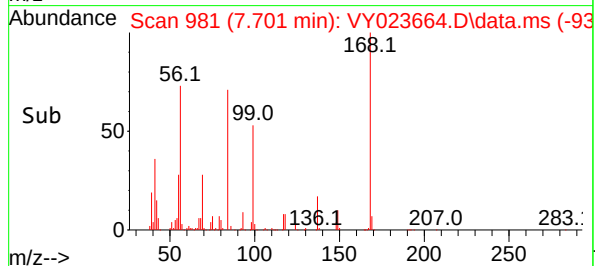
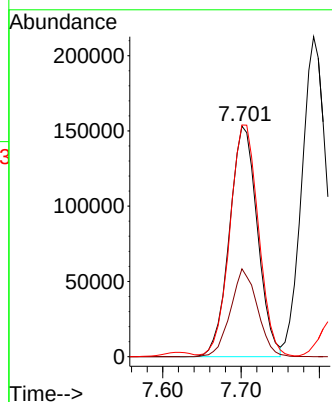
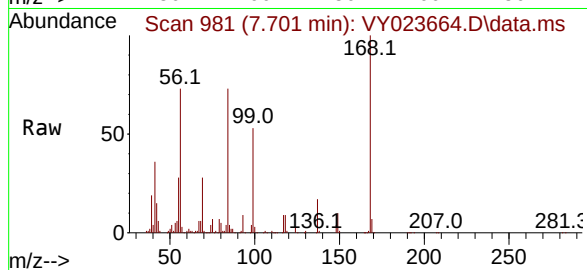
84 98.7 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 47.750 ug/l

RT: 7.616 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

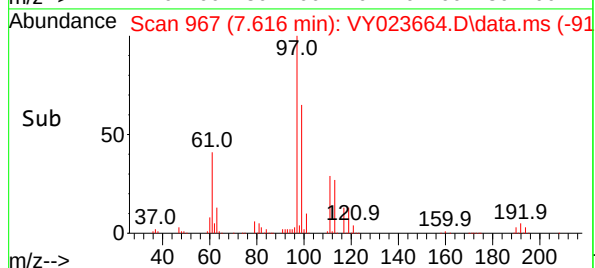
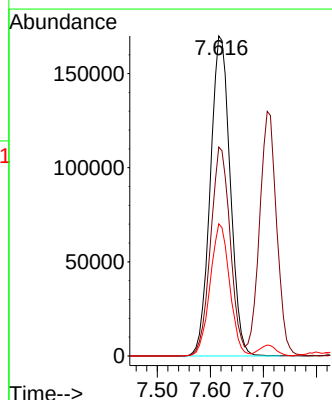
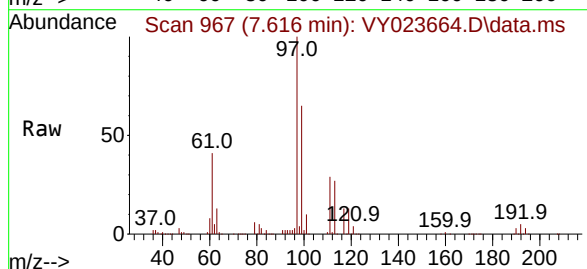
Tgt Ion: 97 Resp: 442659

Ion Ratio Lower Upper

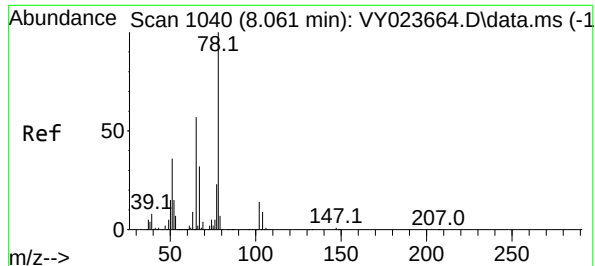
97 100

99 64.4 51.5 77.3

61 40.6 32.5 48.7







#33

1,2-Dichloroethane-d4

Concen: 47.743 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 234520

Ion Ratio Lower Upper

65 100

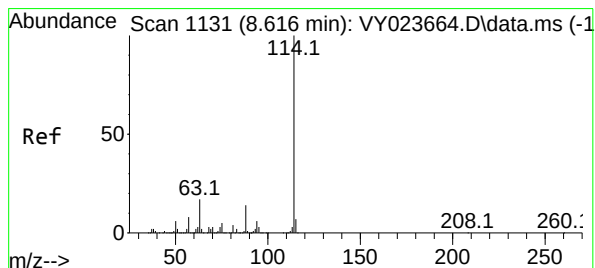
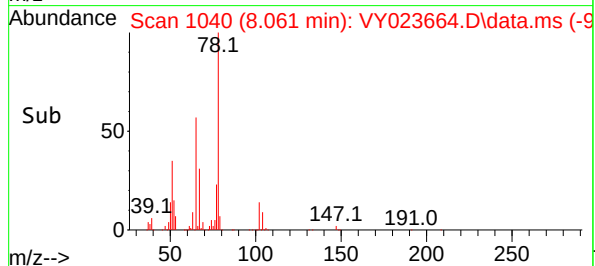
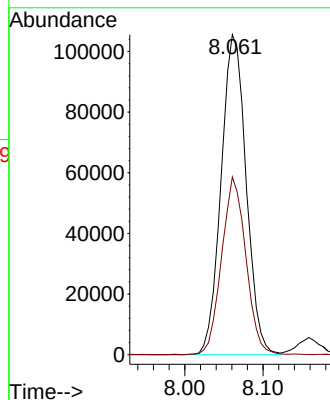
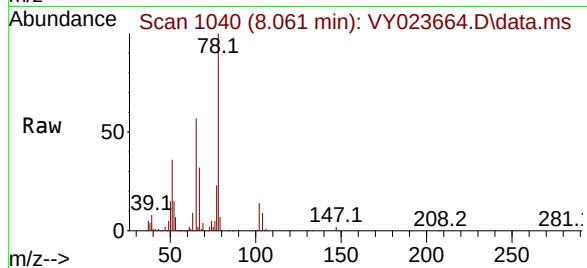
67 53.7 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

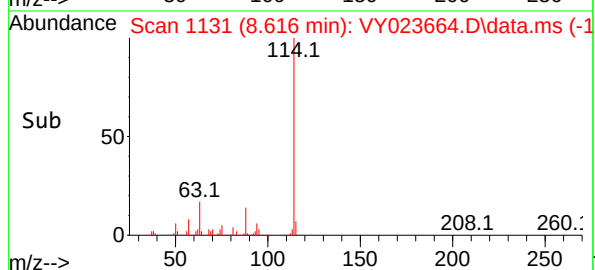
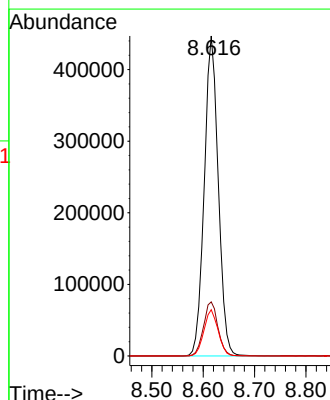
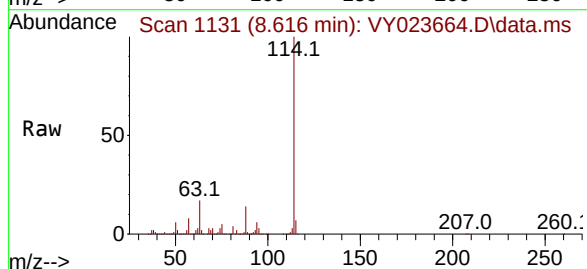
Tgt Ion:114 Resp: 844654

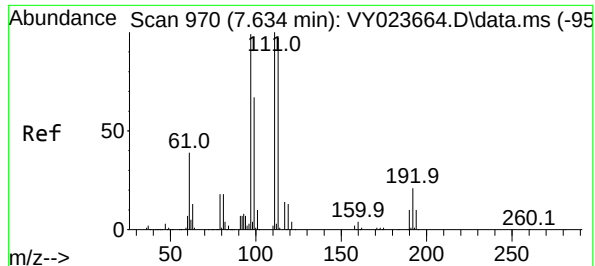
Ion Ratio Lower Upper

114 100

63 16.9 0.0 33.8

88 14.5 0.0 29.0





#35

Dibromofluoromethane

Concen: 49.542 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 261509

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

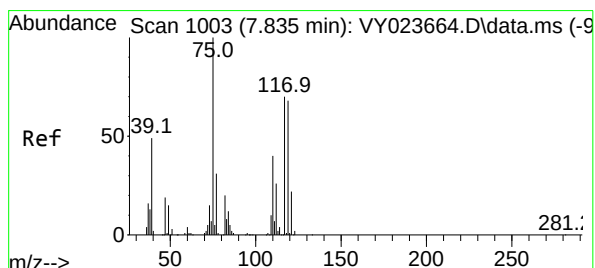
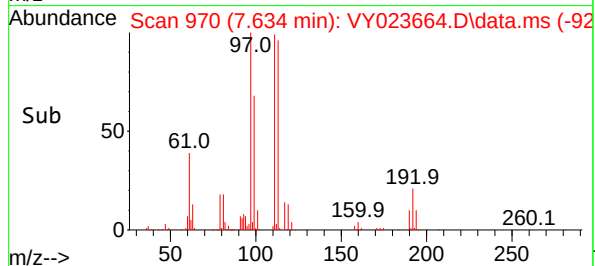
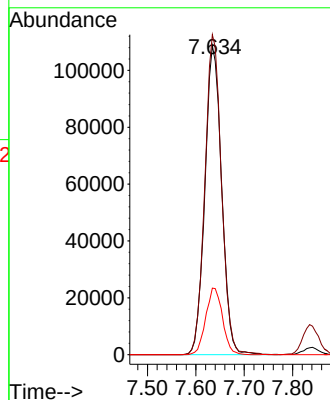
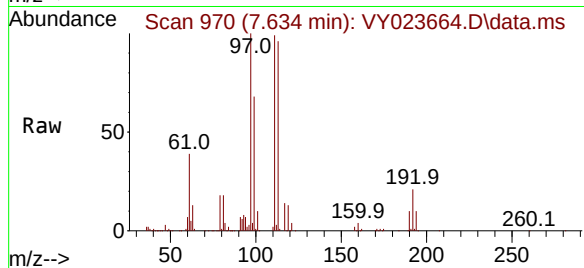
192 21.6 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 48.973 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

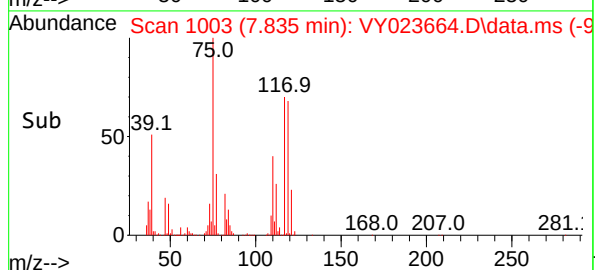
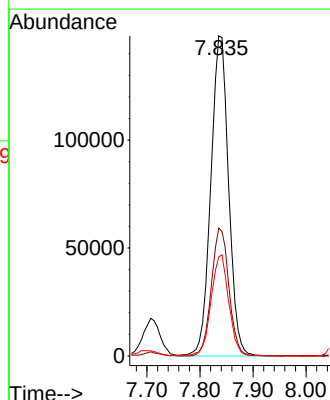
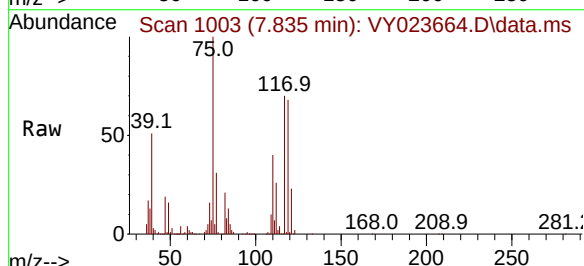
Tgt Ion: 75 Resp: 345431

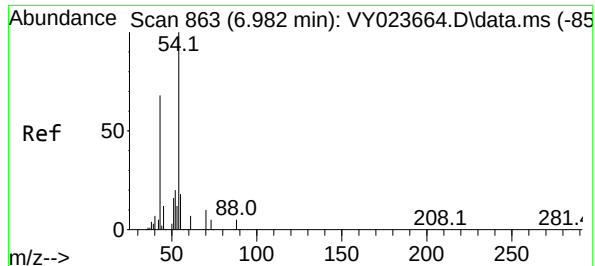
Ion Ratio Lower Upper

75 100

110 39.3 19.7 59.0

77 31.5 25.2 37.8





#37

Ethyl Acetate

Concen: 47.912 ug/l

RT: 6.982 min Scan# 80

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 13082

Ion Ratio Lower Upper

43 100

61 15.5 12.4 18.6

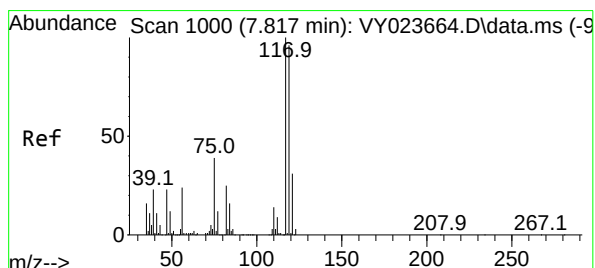
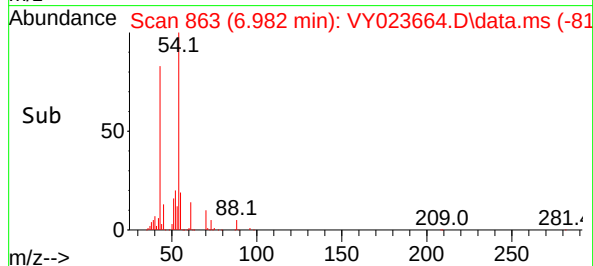
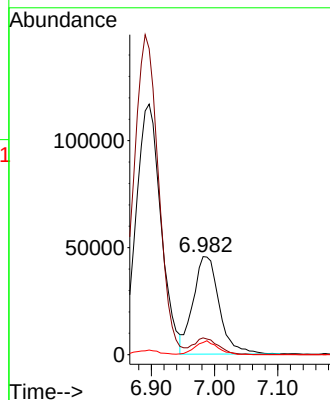
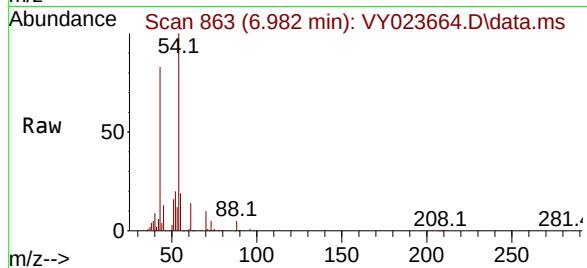
70 12.3 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 48.486 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

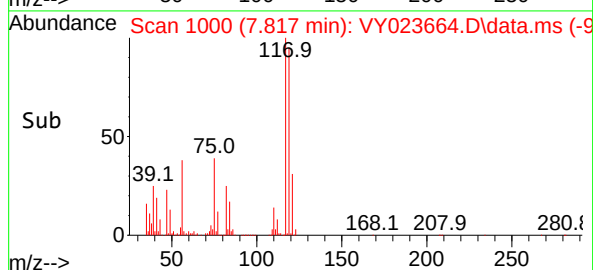
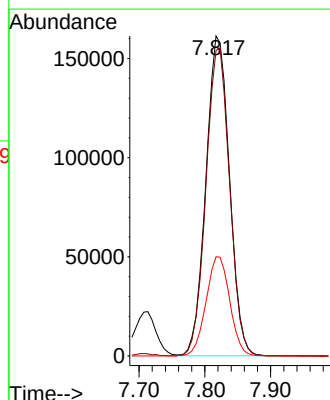
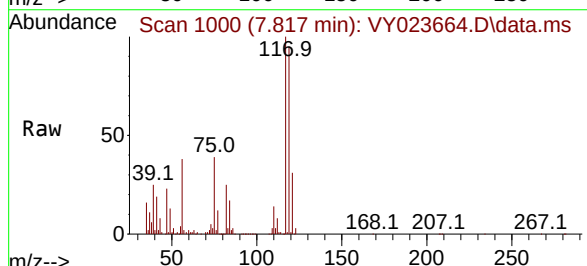
Tgt Ion:117 Resp: 402944

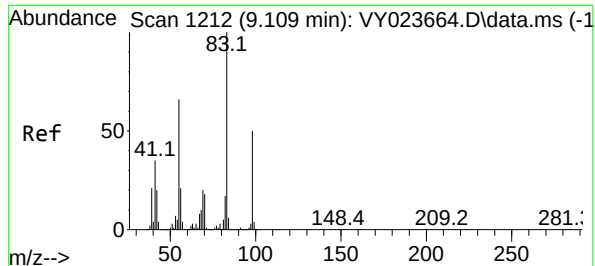
Ion Ratio Lower Upper

117 100

119 95.4 76.3 114.5

121 31.0 24.8 37.2





#39

Methylcyclohexane

Concen: 50.473 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 45488

Ion Ratio Lower Upper

83 100

55 65.7 52.6 78.8

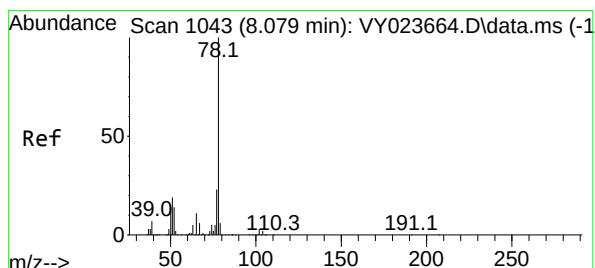
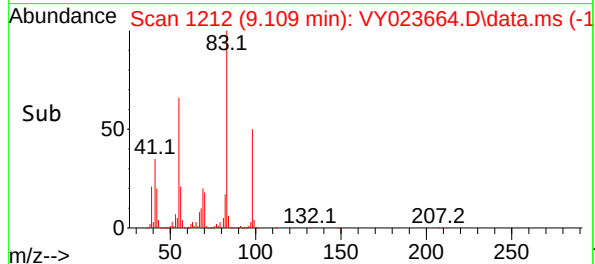
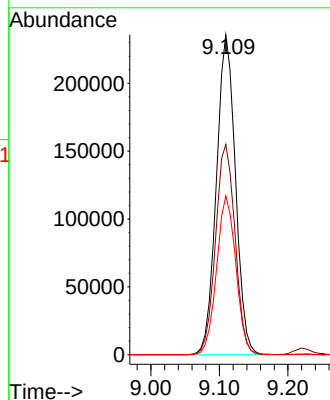
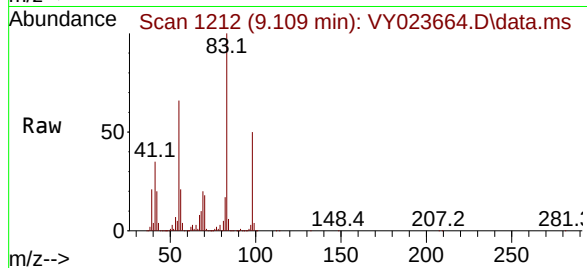
98 49.6 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 48.893 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023664.D

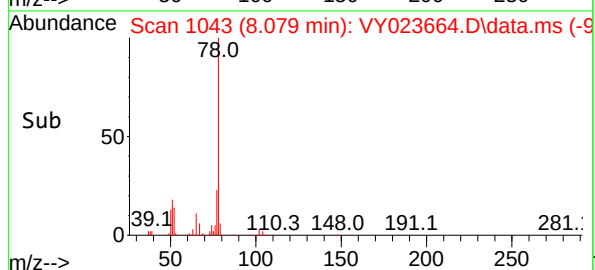
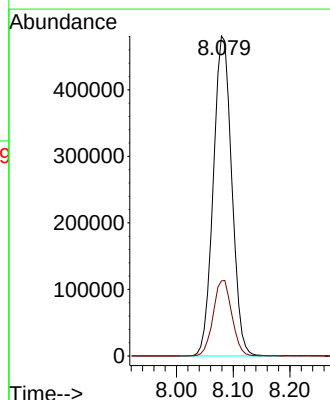
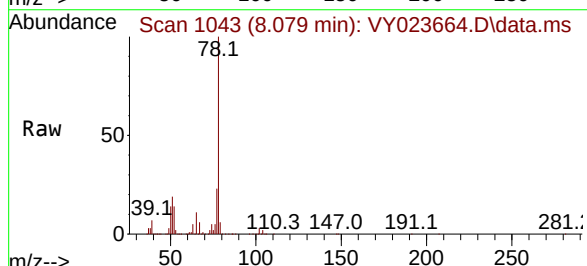
Acq: 04 Nov 2025 10:42

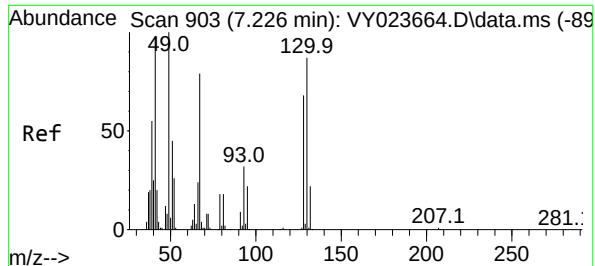
Tgt Ion: 78 Resp: 1087048

Ion Ratio Lower Upper

78 100

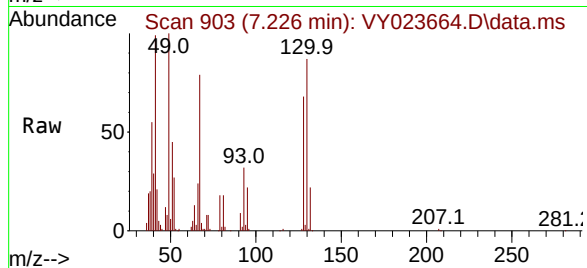
77 23.5 18.8 28.2





#41  
Methacrylonitrile  
Concen: 48.884 ug/l  
RT: 7.226 min Scan# 903  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

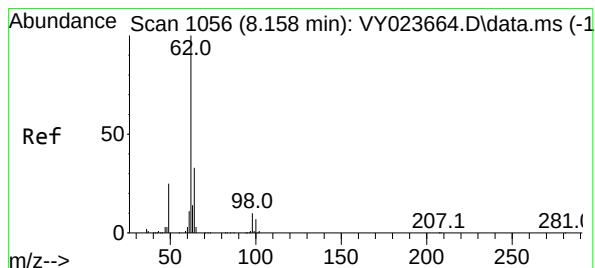
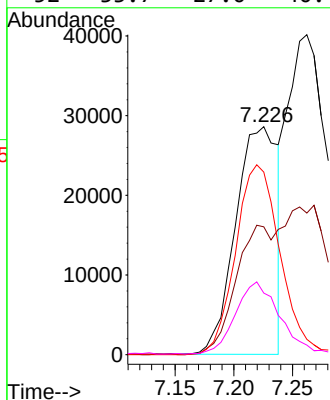
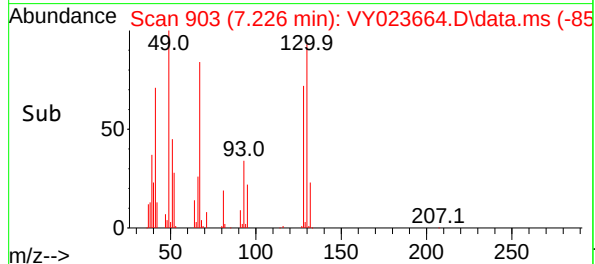
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



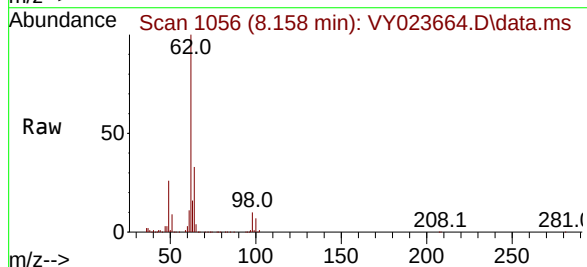
Tgt Ion: 41 Resp: 71198  
Ion Ratio Lower Upper  
41 100  
39 48.2 38.6 57.8  
67 89.1 71.3 106.9  
52 33.7 27.0 40.4

Manual Integrations  
APPROVED

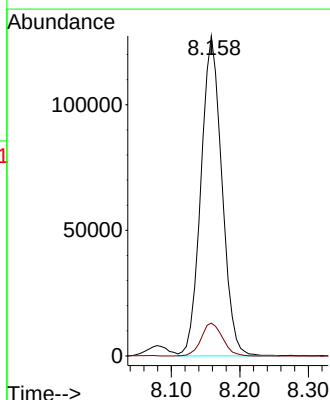
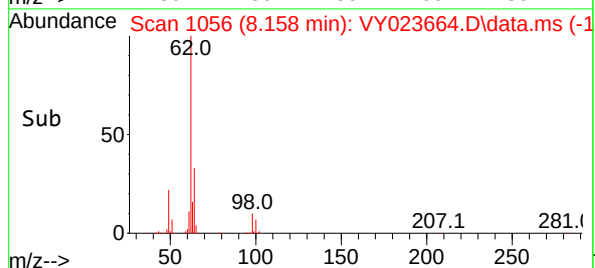
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

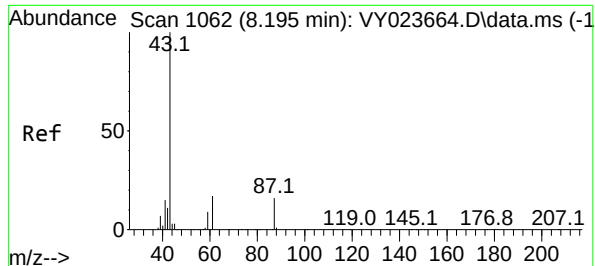


#42  
1,2-Dichloroethane  
Concen: 48.130 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42



Tgt Ion: 62 Resp: 270723  
Ion Ratio Lower Upper  
62 100  
98 10.5 0.0 21.0





#43

Isopropyl Acetate

Concen: 48.549 ug/l

RT: 8.195 min Scan# 1062

Delta R.T. 0.000 min

Lab File: VY023664.D

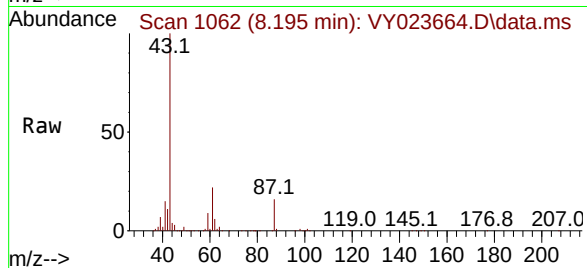
Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050



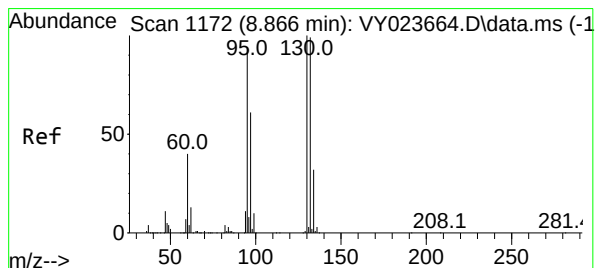
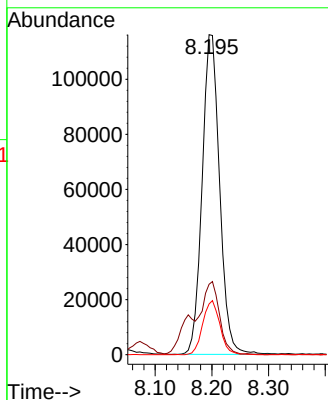
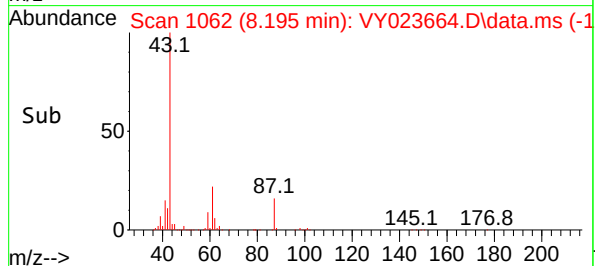
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 249080 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 22.7  | 18.2  | 27.2   |
| 87       | 16.6  | 13.3  | 19.9   |

## Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

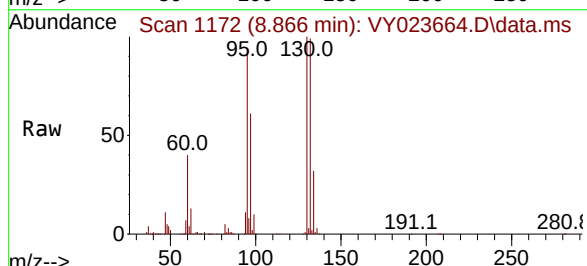
Concen: 48.377 ug/l

RT: 8.866 min Scan# 1172

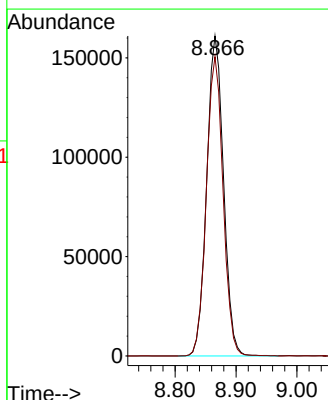
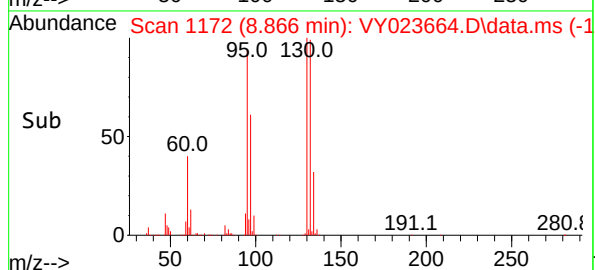
Delta R.T. 0.000 min

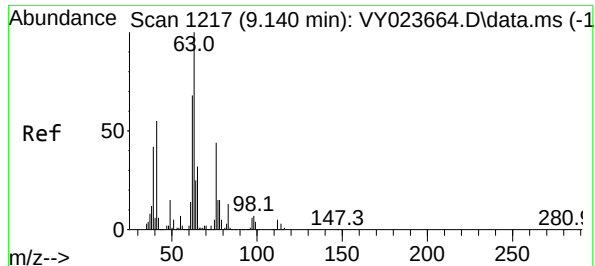
Lab File: VY023664.D

Acq: 04 Nov 2025 10:42



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 308925 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 93.5  | 0.0   | 187.0  |





#45

1,2-Dichloropropane

Concen: 48.873 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 23981

Ion Ratio Lower Upper

63 100

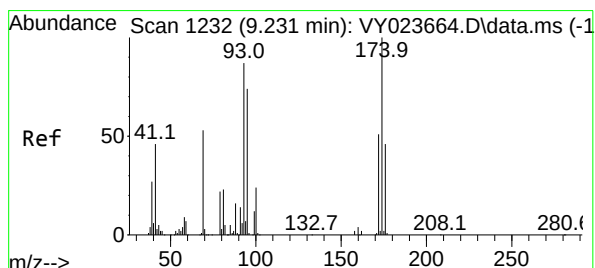
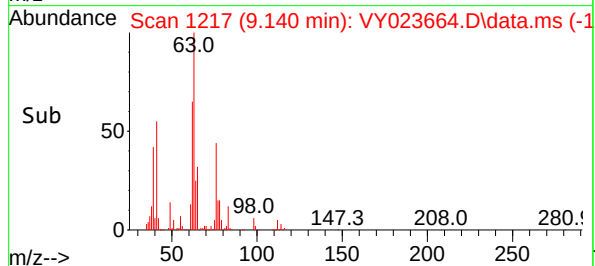
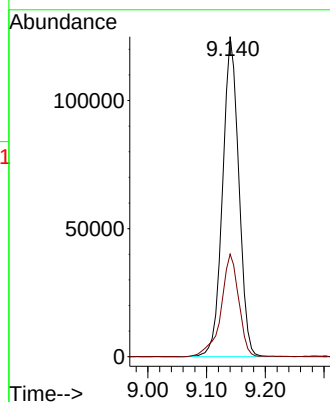
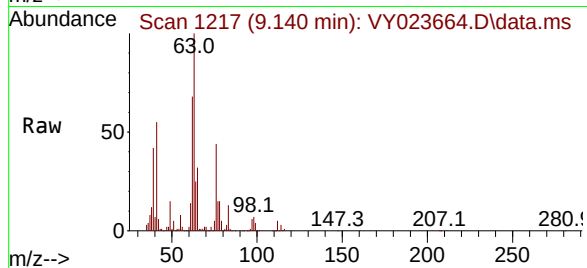
65 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 48.022 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

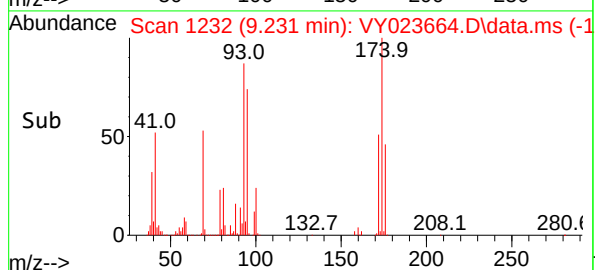
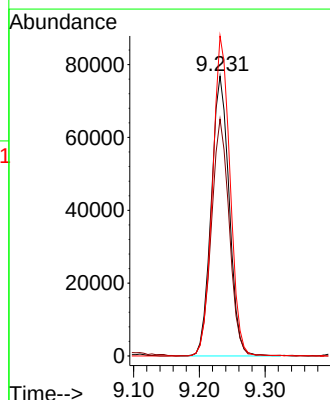
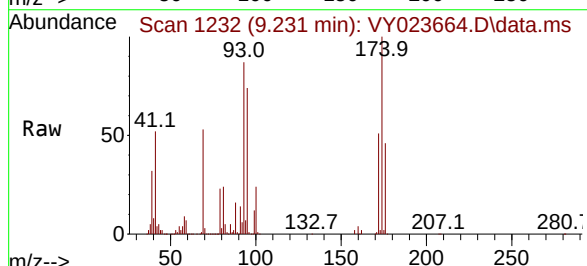
Tgt Ion: 93 Resp: 146001

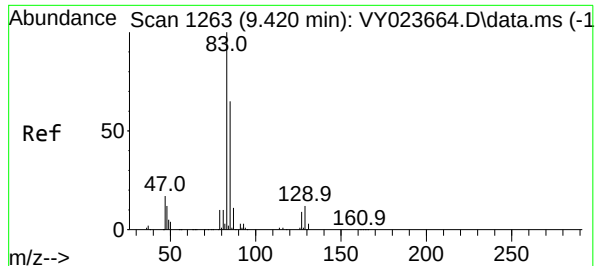
Ion Ratio Lower Upper

93 100

95 84.3 67.4 101.2

174 111.7 89.4 134.0





#47

Bromodichloromethane

Concen: 48.904 ug/l

RT: 9.420 min Scan# 1263

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 374860

Ion Ratio Lower Upper

83 100

85 65.1 52.1 78.1

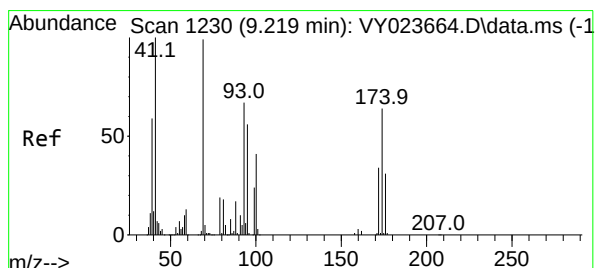
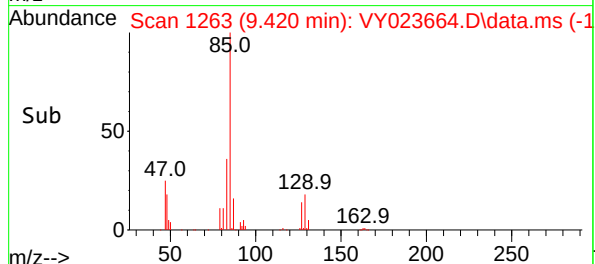
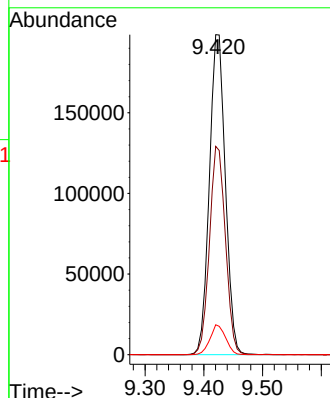
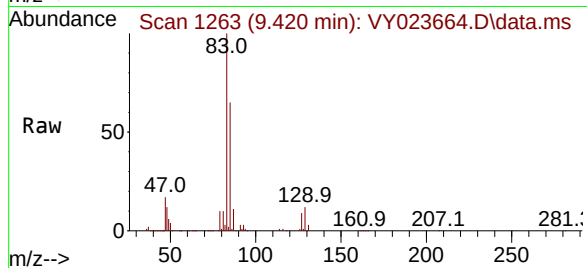
127 9.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 50.717 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

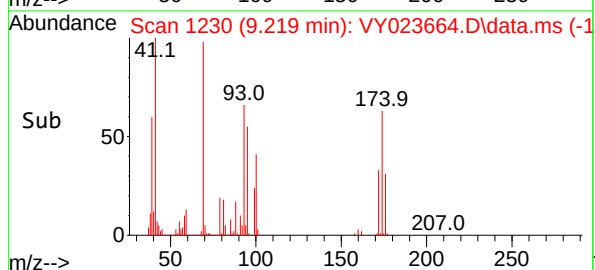
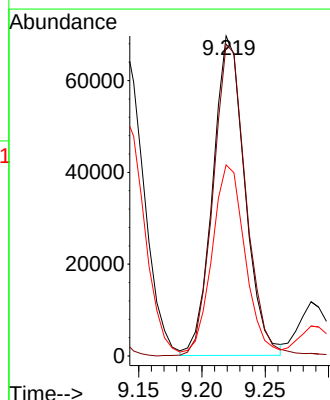
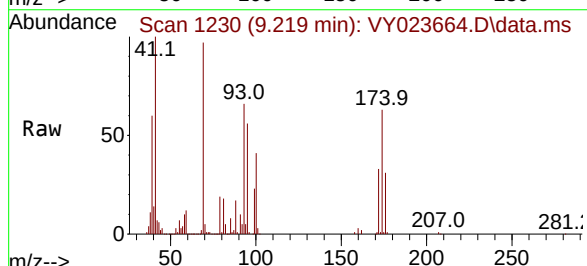
Tgt Ion: 41 Resp: 122935

Ion Ratio Lower Upper

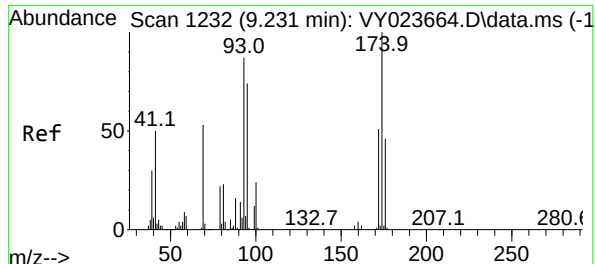
41 100

69 100.2 80.2 120.2

39 59.2 47.4 71.0







#49

1,4-Dioxane

Concen: 977.461 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 3041

Ion Ratio Lower Upper

88 100

43 27.5 22.0 33.0

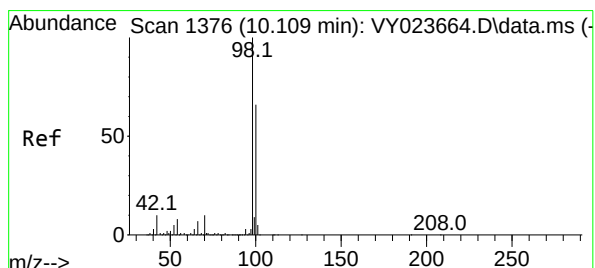
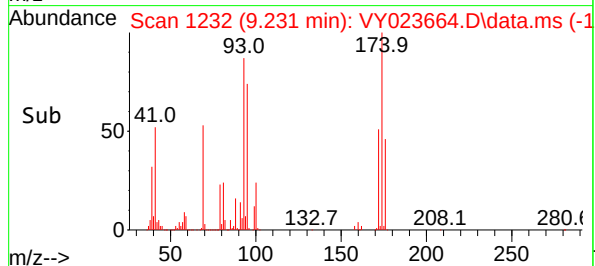
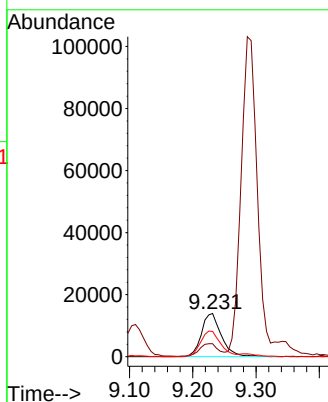
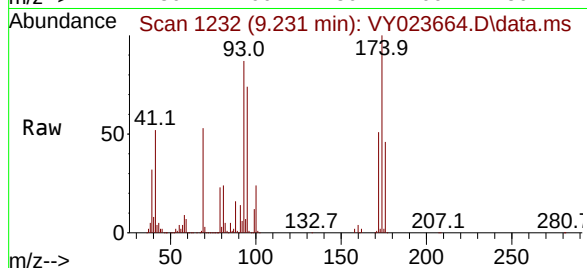
58 59.8 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 51.068 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023664.D

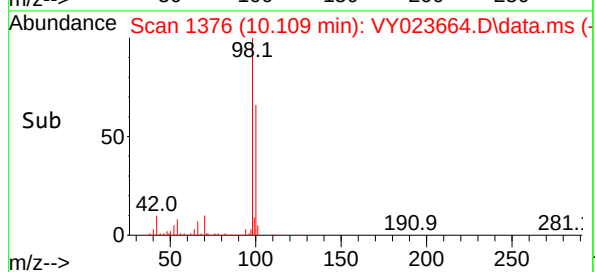
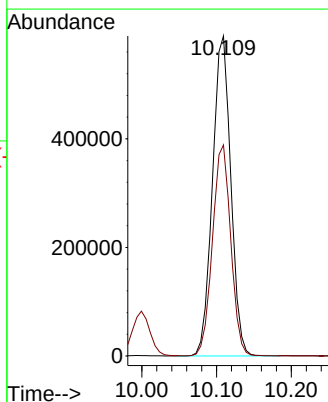
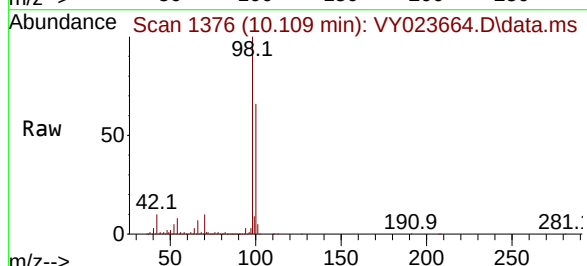
Acq: 04 Nov 2025 10:42

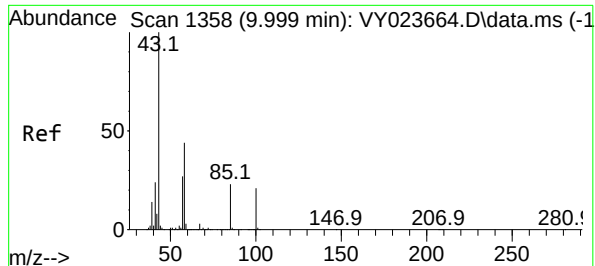
Tgt Ion: 98 Resp: 1004143

Ion Ratio Lower Upper

98 100

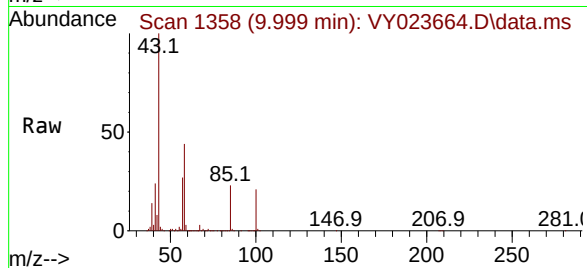
100 65.9 52.7 79.1





#51  
4-Methyl-2-Pentanone  
Concen: 244.757 ug/l  
RT: 9.999 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

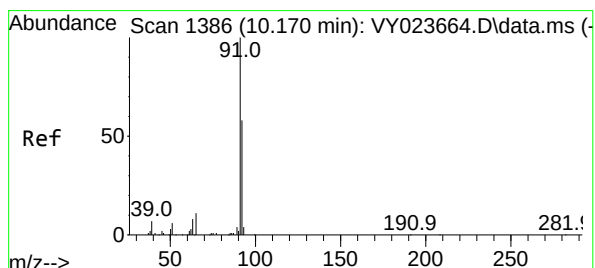
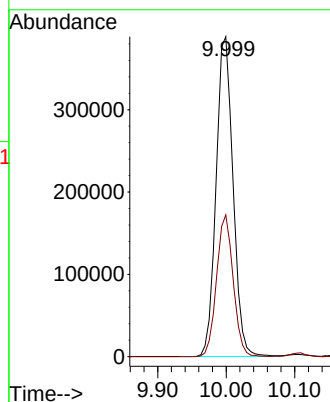
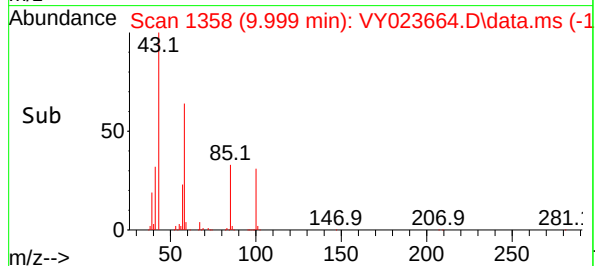
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 43 Resp: 667799  
Ion Ratio Lower Upper  
43 100  
58 43.5 34.8 52.2

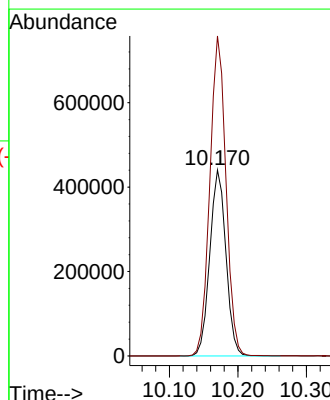
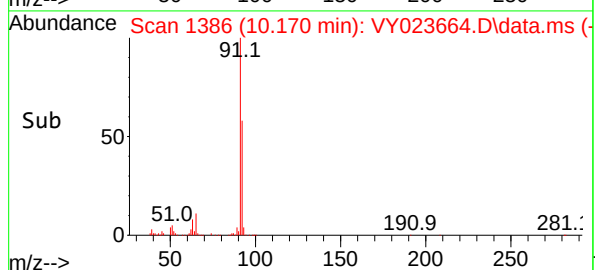
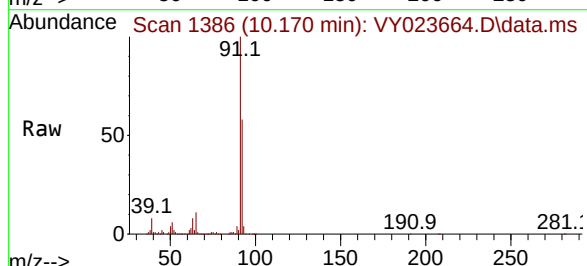
Manual Integrations  
APPROVED

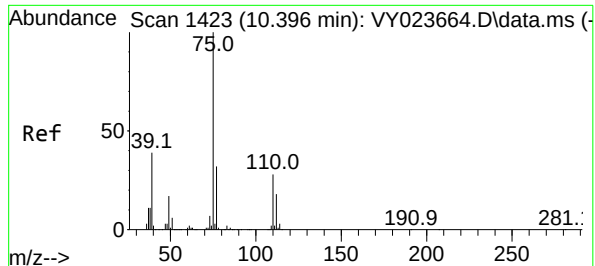
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 50.801 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 92 Resp: 721090  
Ion Ratio Lower Upper  
92 100  
91 172.3 137.8 206.8





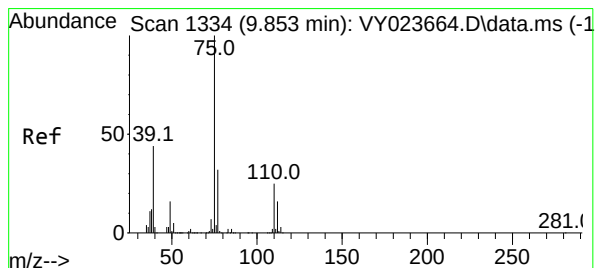
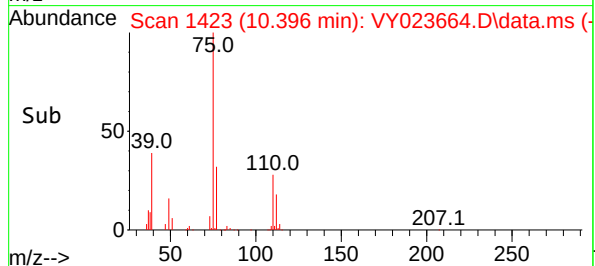
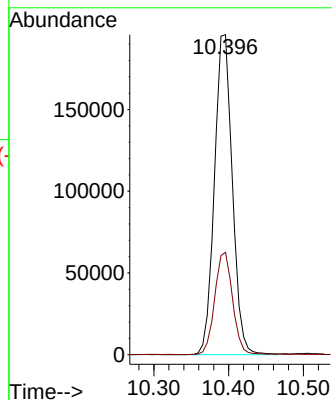
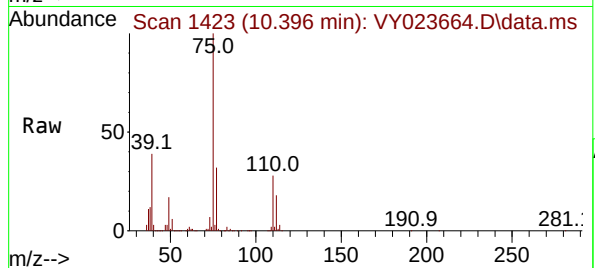
#53  
t-1,3-Dichloropropene  
Concen: 50.350 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 75 Resp: 326560  
Ion Ratio Lower Upper  
75 100  
77 32.0 25.6 38.4

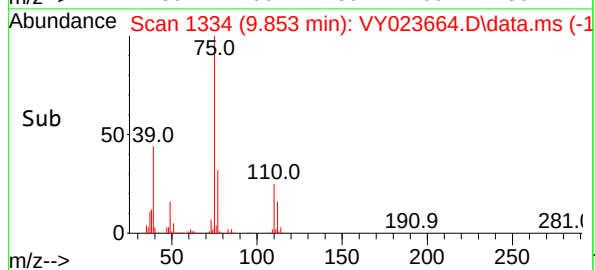
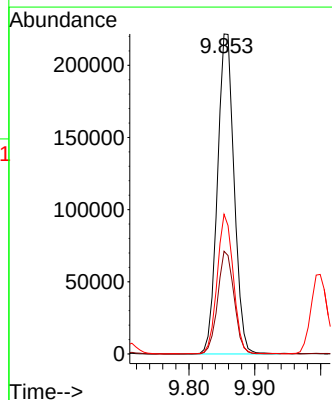
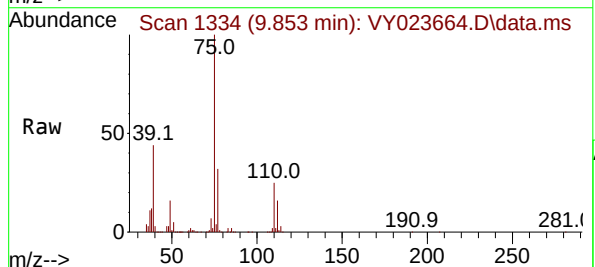
Manual Integrations  
APPROVED

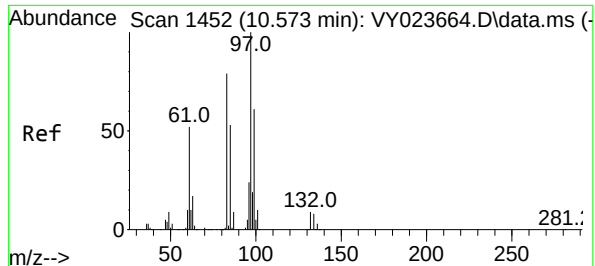
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#54  
cis-1,3-Dichloropropene  
Concen: 50.333 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

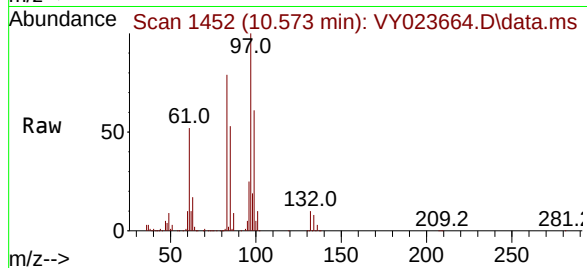
Tgt Ion: 75 Resp: 391126  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.7 38.5  
39 43.6 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 48.601 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

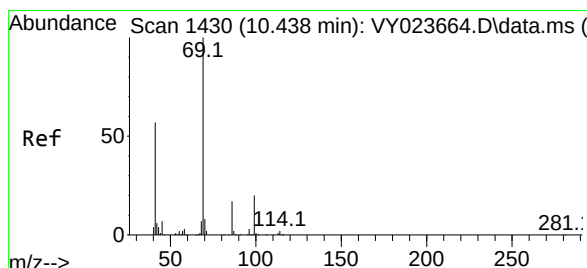
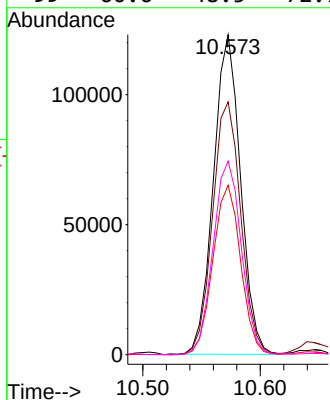
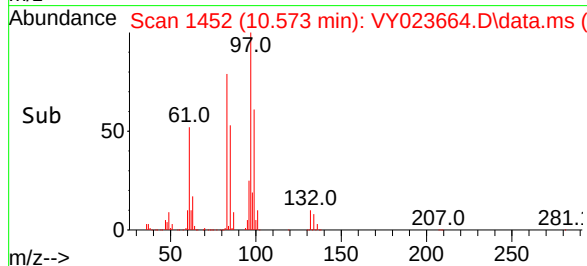
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 97 Resp: 197468  
Ion Ratio Lower Upper  
97 100  
83 79.1 63.3 94.9  
85 53.0 42.4 63.6  
99 60.6 48.5 72.7

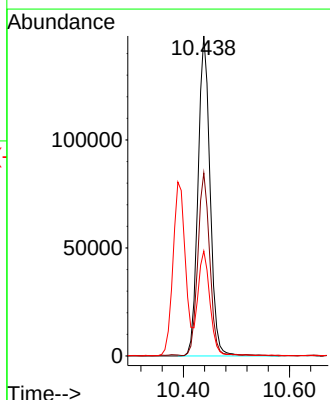
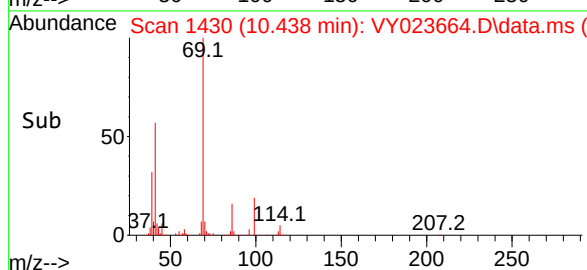
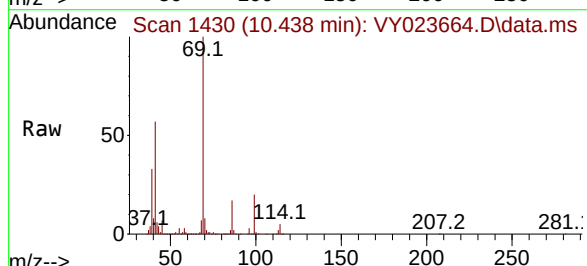
Manual Integrations  
APPROVED

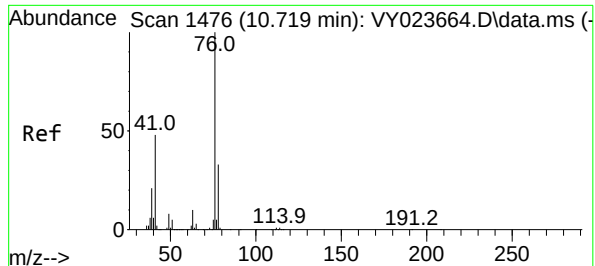
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#56  
Ethyl methacrylate  
Concen: 52.139 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

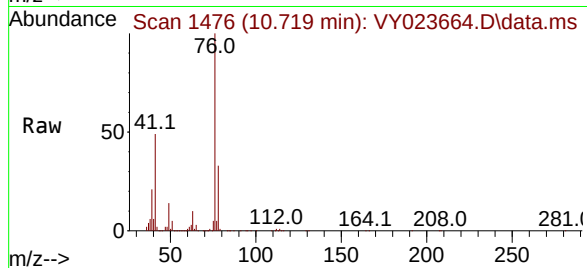
Tgt Ion: 69 Resp: 233410  
Ion Ratio Lower Upper  
69 100  
41 56.2 45.0 67.4  
39 31.4 25.1 37.7





#57  
1,3-Dichloropropane  
Concen: 49.234 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

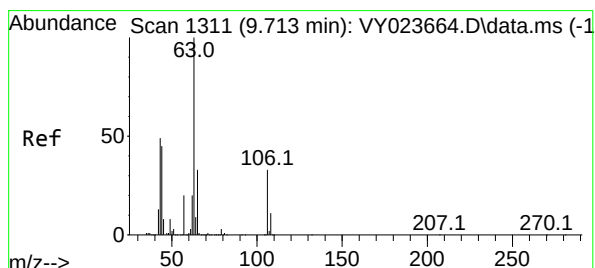
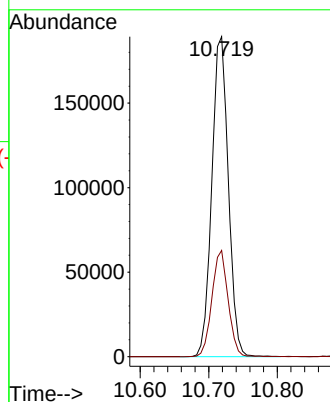
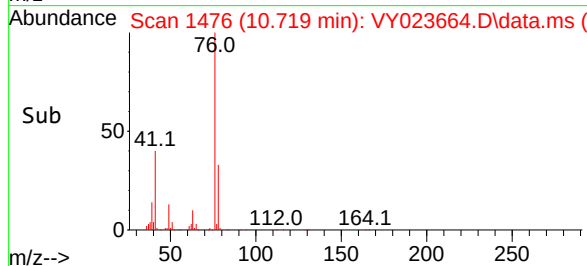
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 76 Resp: 317290  
Ion Ratio Lower Upper  
76 100  
78 32.5 26.0 39.0

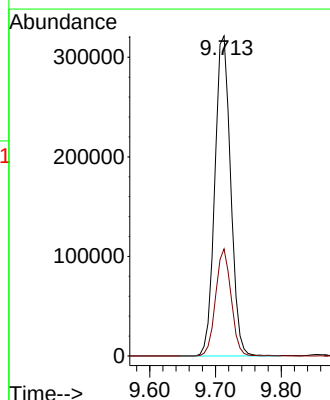
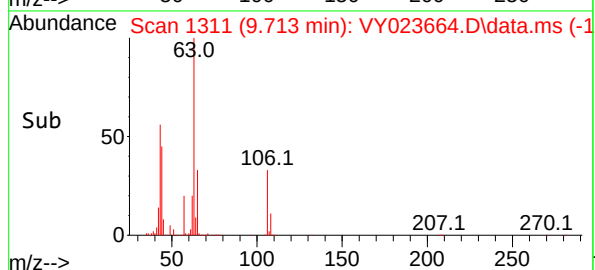
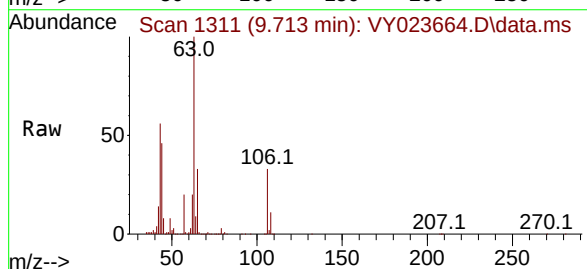
Manual Integrations  
APPROVED

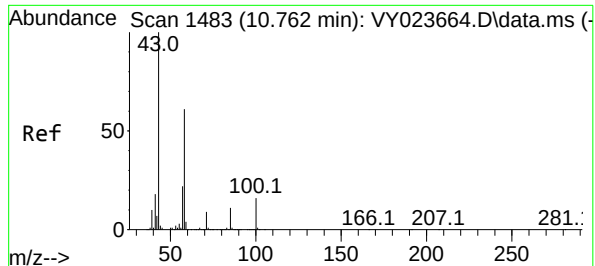
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 261.987 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 63 Resp: 538181  
Ion Ratio Lower Upper  
63 100  
106 32.7 26.2 39.2





#59

2-Hexanone

Concen: 242.927 ug/l

RT: 10.762 min Scan# 1483

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 48356

Ion Ratio Lower Upper

43 100

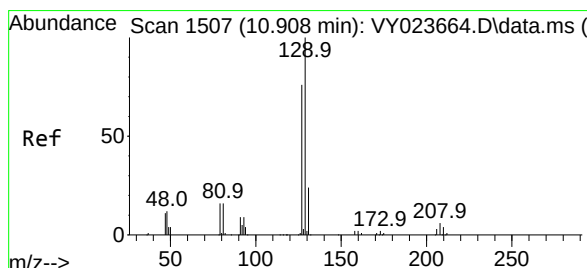
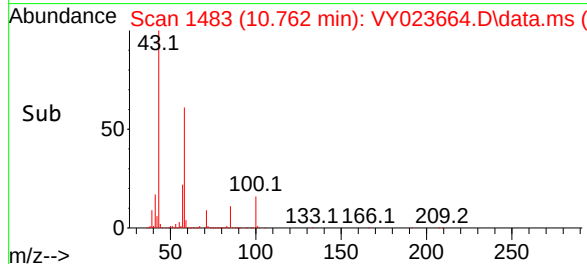
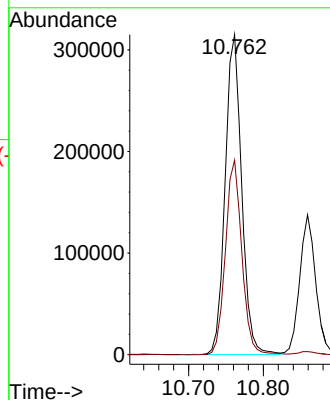
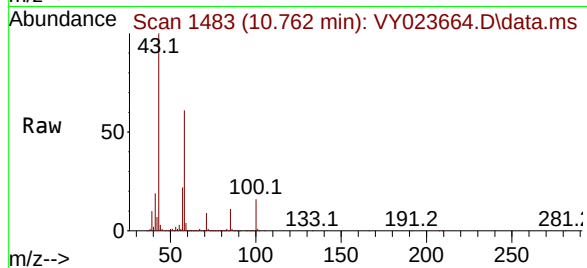
58 60.4 30.2 90.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#60

Dibromochloromethane

Concen: 49.299 ug/l

RT: 10.908 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VY023664.D

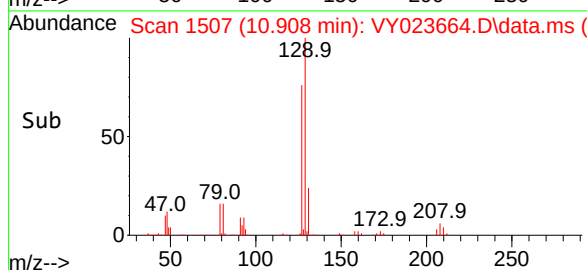
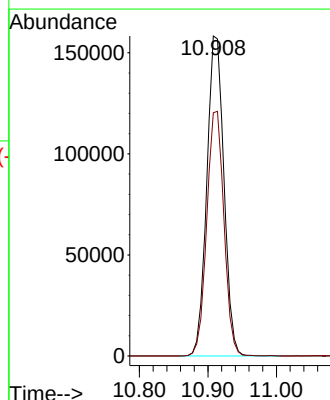
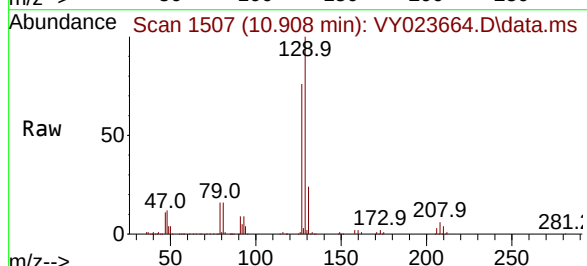
Acq: 04 Nov 2025 10:42

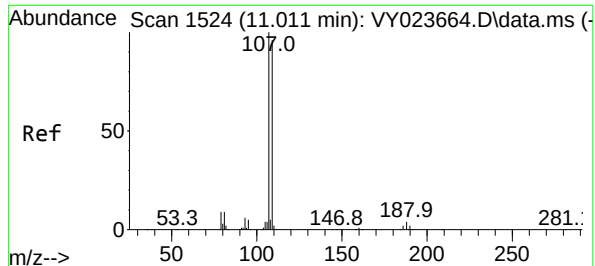
Tgt Ion:129 Resp: 275217

Ion Ratio Lower Upper

129 100

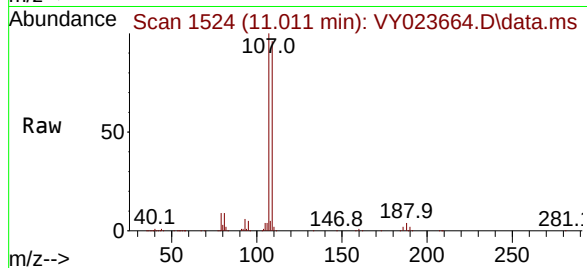
127 76.8 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 49.070 ug/l  
RT: 11.011 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

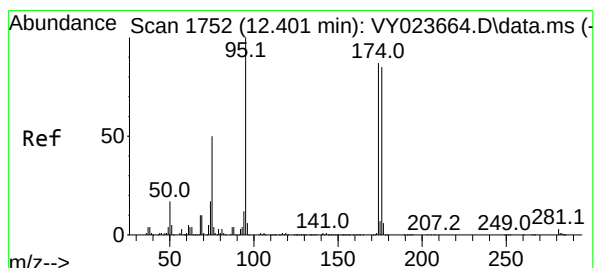
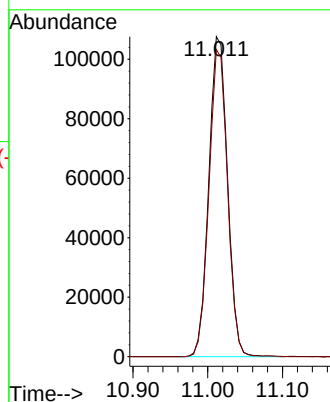
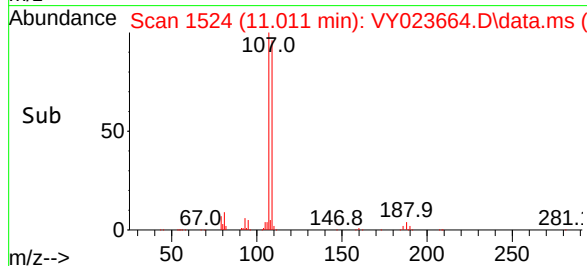
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:107 Resp: 187108  
Ion Ratio Lower Upper  
107 100  
109 95.3 76.2 114.4

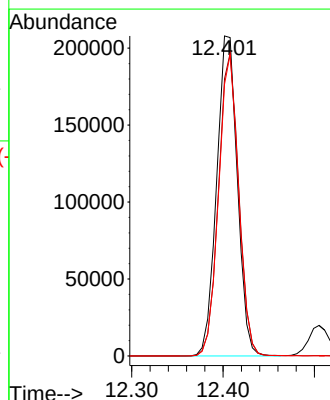
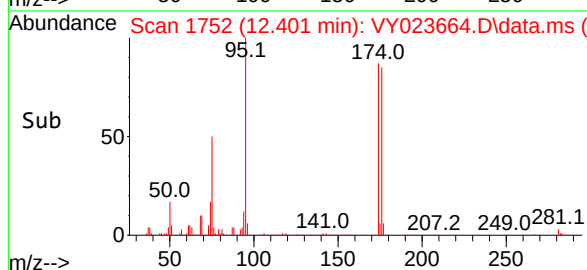
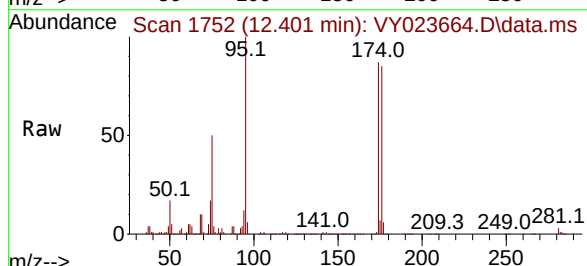
Manual Integrations  
APPROVED

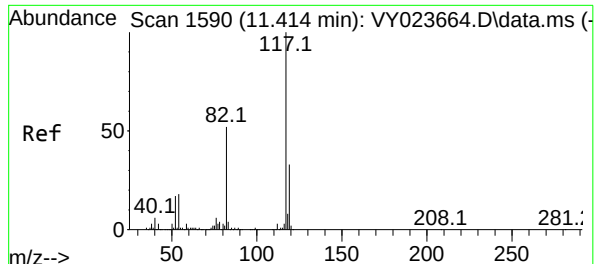
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 51.505 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

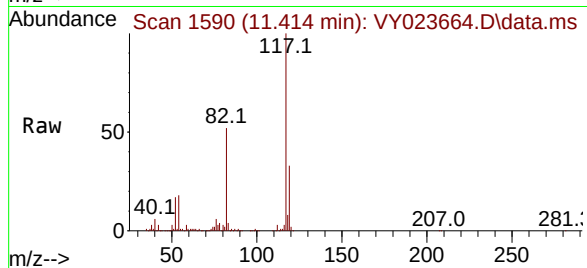
Tgt Ion: 95 Resp: 327509  
Ion Ratio Lower Upper  
95 100  
174 92.4 0.0 184.8  
176 90.8 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

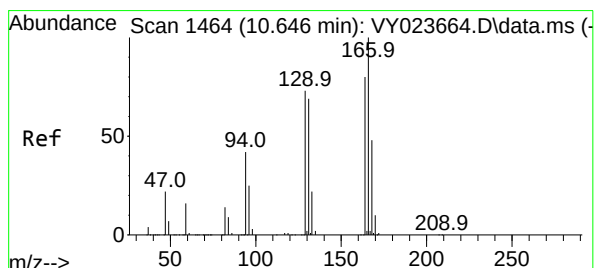
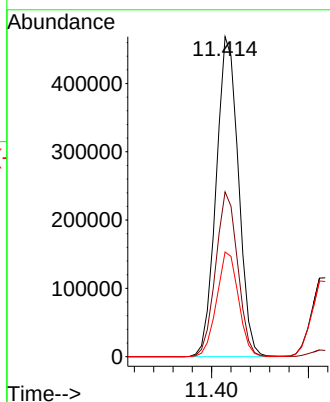
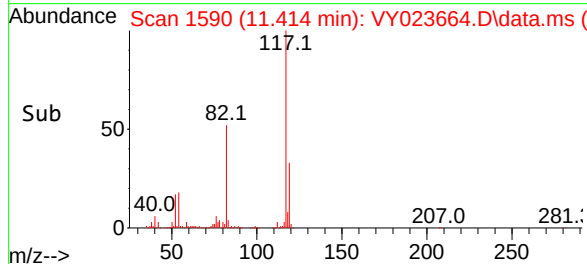
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



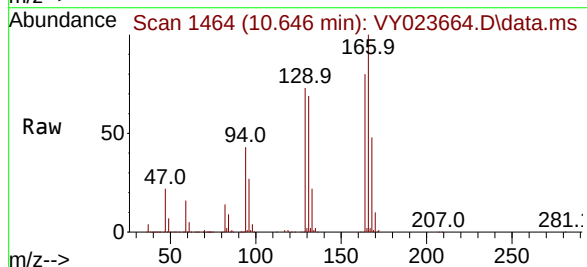
Tgt Ion:117 Resp: 748311  
Ion Ratio Lower Upper  
117 100  
82 51.5 41.2 61.8  
119 32.7 26.2 39.2

Manual Integrations  
APPROVED

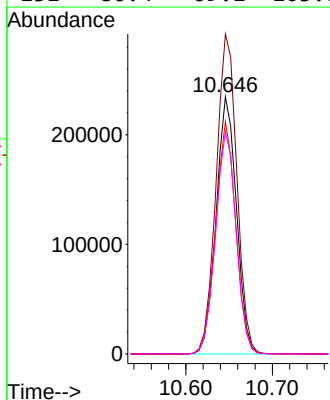
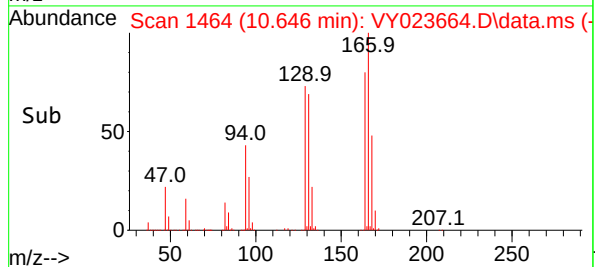
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



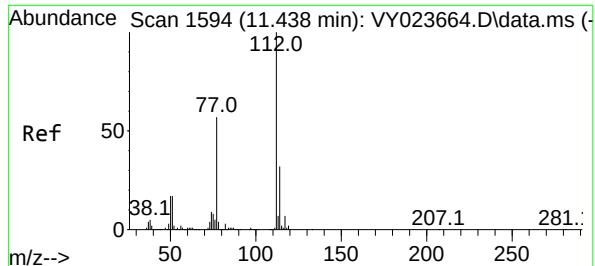
#64  
Tetrachloroethene  
Concen: 49.228 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42



Tgt Ion:164 Resp: 383425  
Ion Ratio Lower Upper  
164 100  
166 124.4 99.5 149.3  
129 90.4 72.3 108.5  
131 86.4 69.1 103.7

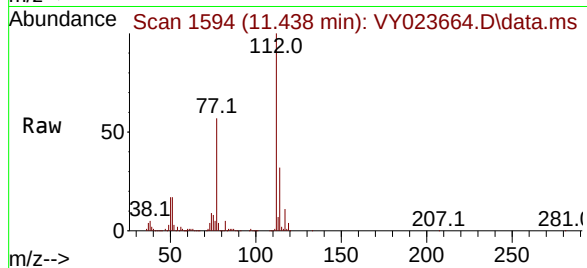






#65  
Chlorobenzene  
Concen: 49.008 ug/l  
RT: 11.438 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

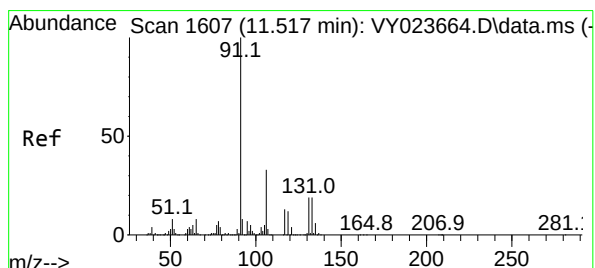
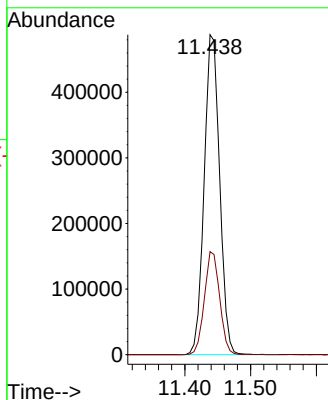
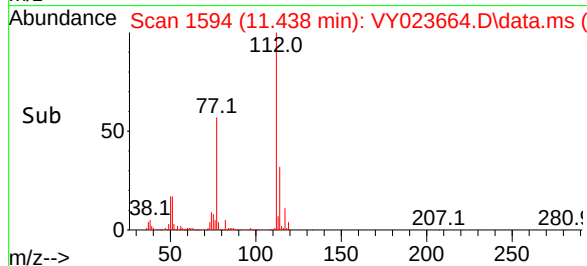
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:112 Resp: 798384  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.8 38.6

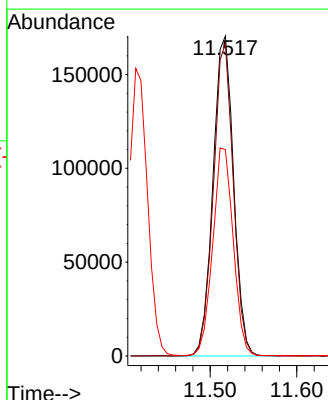
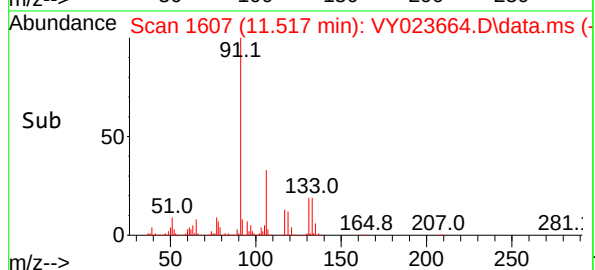
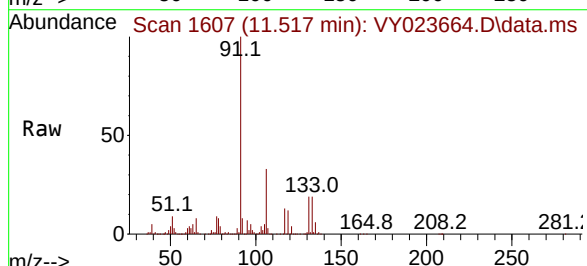
Manual Integrations  
APPROVED

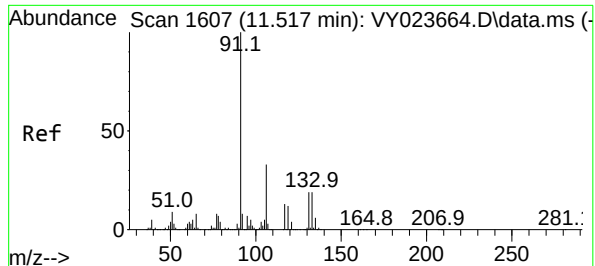
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 48.962 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion:131 Resp: 282049  
Ion Ratio Lower Upper  
131 100  
133 94.5 47.3 141.8  
119 64.9 32.5 97.4





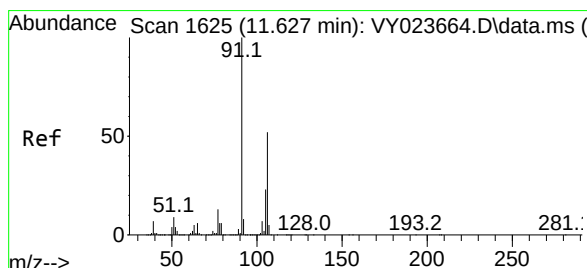
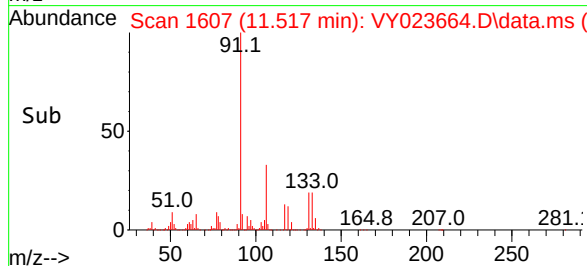
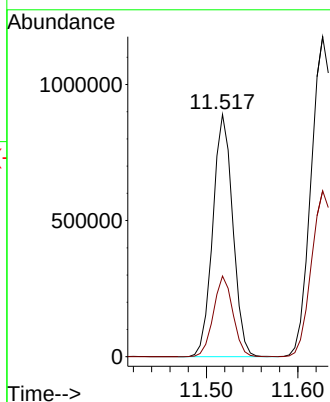
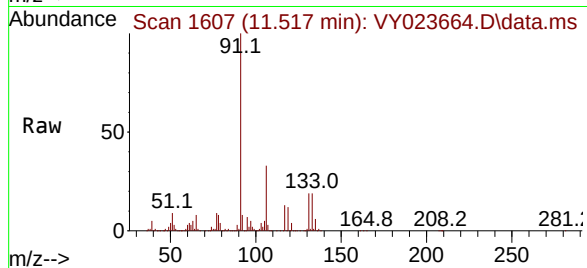
#67  
Ethyl Benzene  
Concen: 51.285 ug/l  
RT: 11.517 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Tgt Ion: 91 Resp: 1352193  
Ion Ratio Lower Upper  
91 100  
106 33.3 26.6 40.0

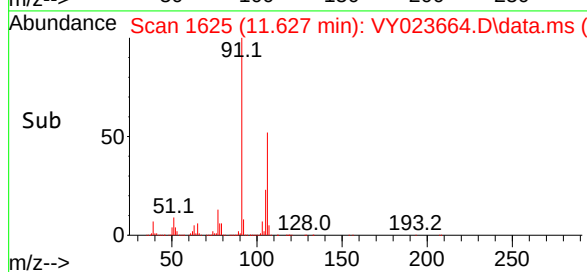
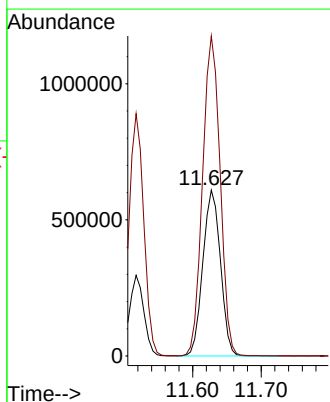
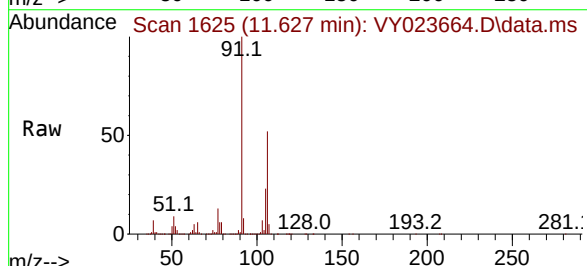
Manual Integrations  
APPROVED

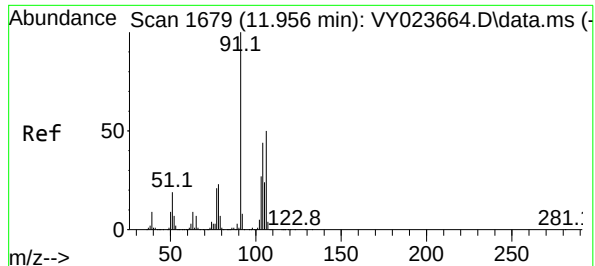
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#68  
m/p-Xylenes  
Concen: 103.340 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

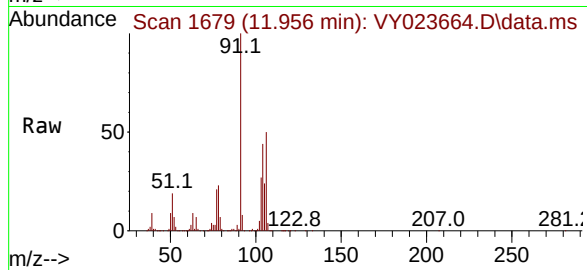
Tgt Ion:106 Resp: 1088606  
Ion Ratio Lower Upper  
106 100  
91 192.9 154.3 231.5





#69  
o-Xylene  
Concen: 51.824 ug/l  
RT: 11.956 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

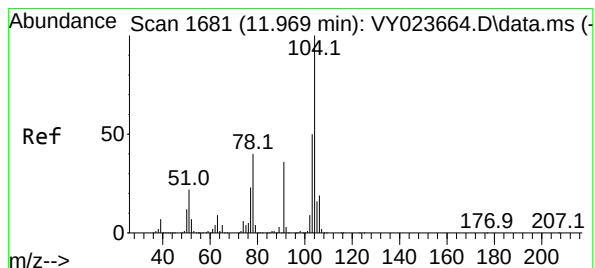
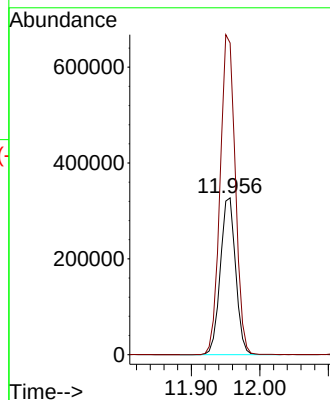
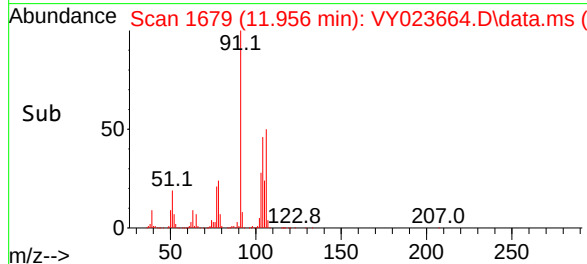
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:106 Resp: 504648  
Ion Ratio Lower Upper  
106 100  
91 203.1 101.6 304.6

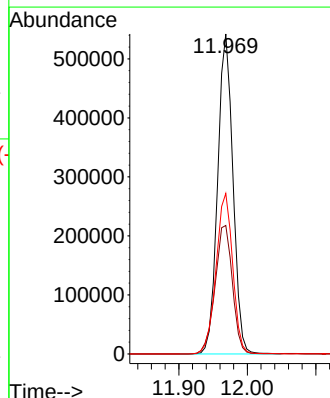
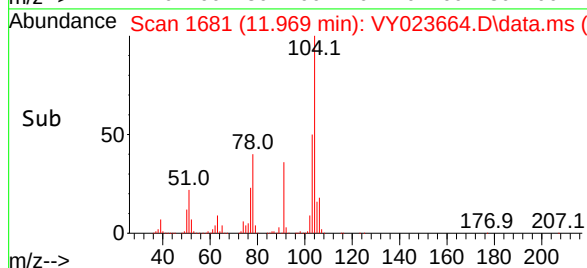
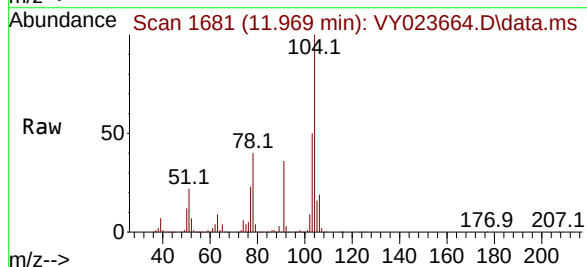
Manual Integrations  
APPROVED

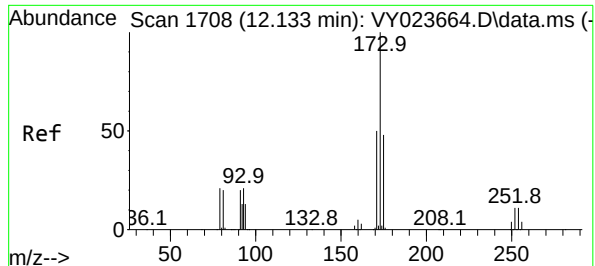
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 52.208 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

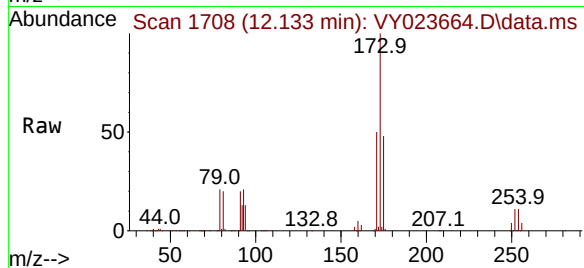
Tgt Ion:104 Resp: 838808  
Ion Ratio Lower Upper  
104 100  
78 45.6 36.5 54.7  
103 54.6 43.7 65.5





#71  
Bromoform  
Concen: 48.678 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

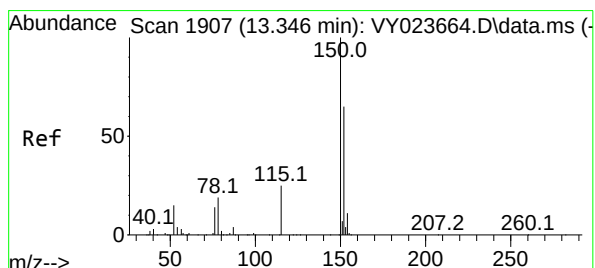
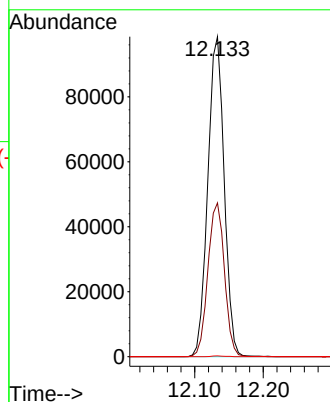
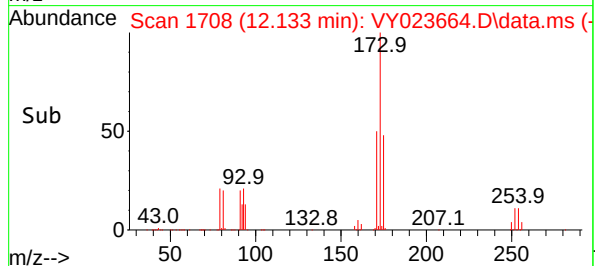
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:173 Resp: 16377  
Ion Ratio Lower Upper  
173 100  
175 48.4 24.2 72.6  
254 0.2 0.2 0.2

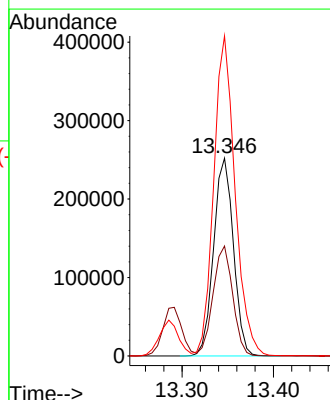
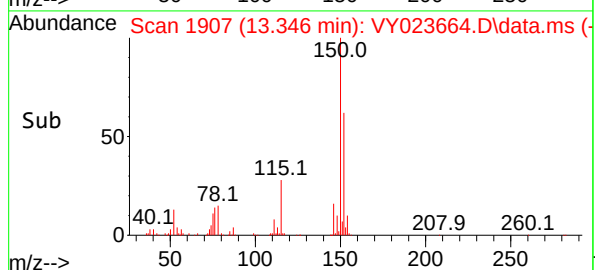
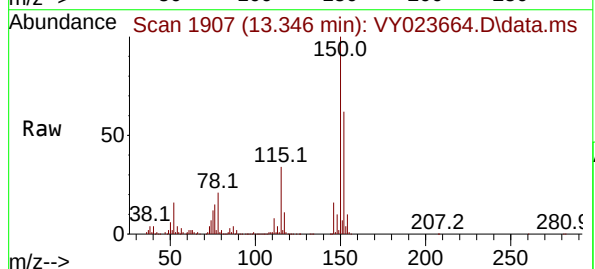
Manual Integrations  
APPROVED

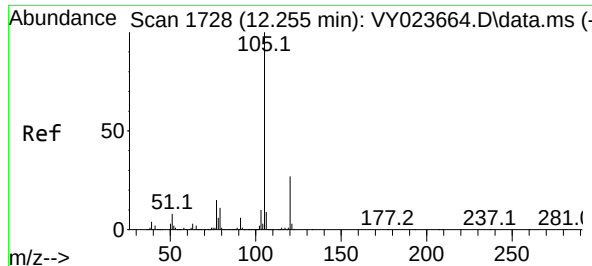
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

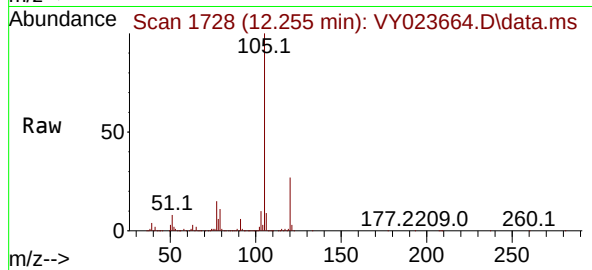
Tgt Ion:152 Resp: 378927  
Ion Ratio Lower Upper  
152 100  
115 55.0 27.5 82.5  
150 174.5 0.0 349.0





#73  
Isopropylbenzene  
Concen: 51.752 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

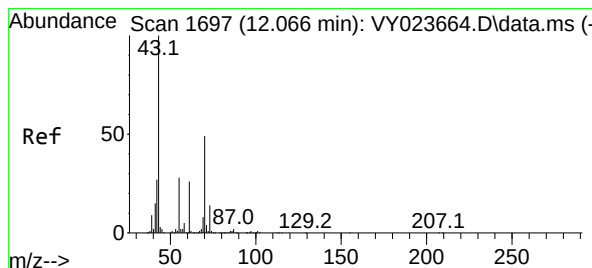
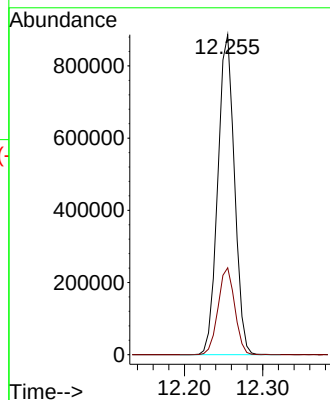
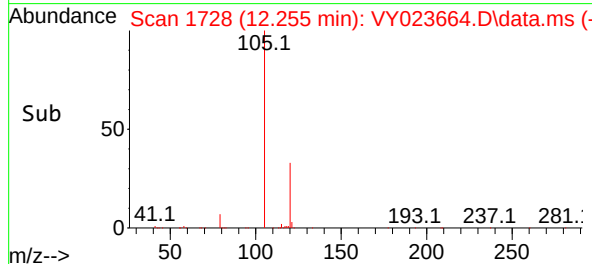
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:105 Resp: 131158  
Ion Ratio Lower Upper  
105 100  
120 27.1 13.6 40.7

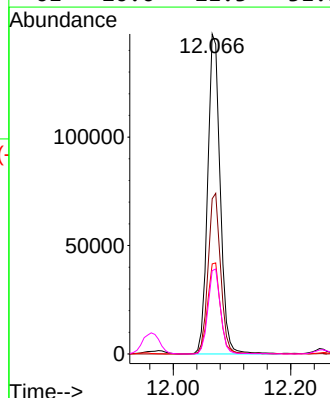
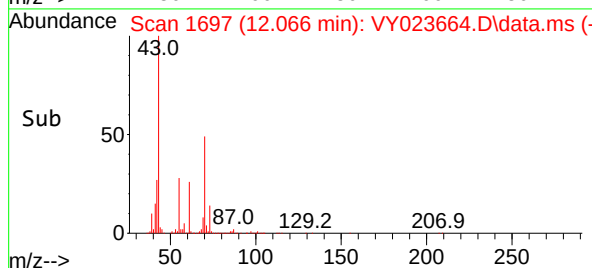
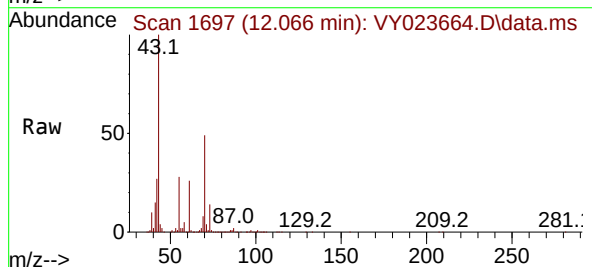
Manual Integrations  
APPROVED

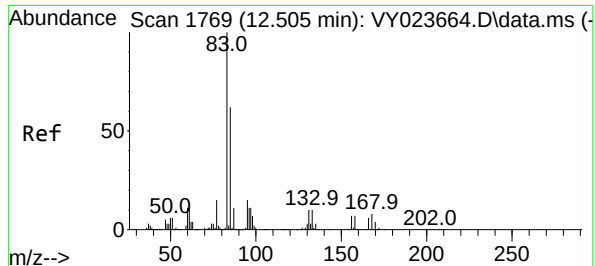
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 50.962 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 43 Resp: 218665  
Ion Ratio Lower Upper  
43 100  
70 50.1 40.1 60.1  
55 28.8 23.0 34.6  
61 26.6 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 47.061 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 190480

Ion Ratio Lower Upper

83 100

131 11.3 5.7 17.0

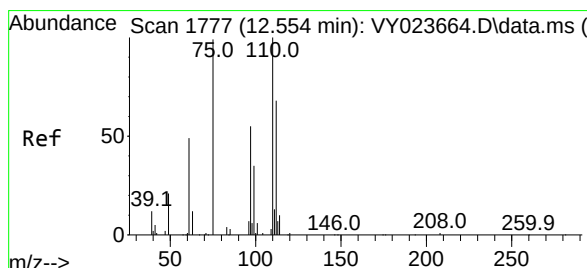
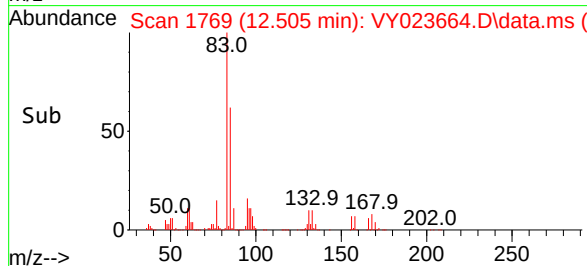
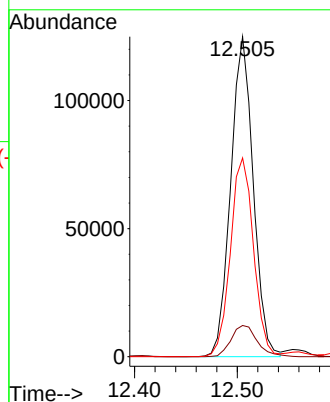
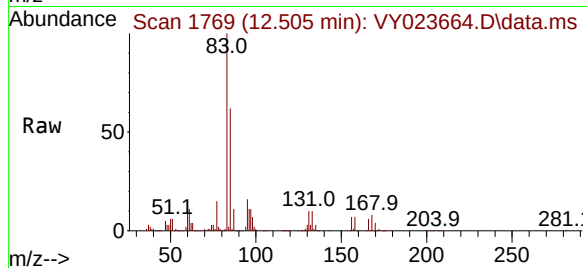
85 63.8 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#76

1,2,3-Trichloropropane

Concen: 46.111 ug/l m

RT: 12.554 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VY023664.D

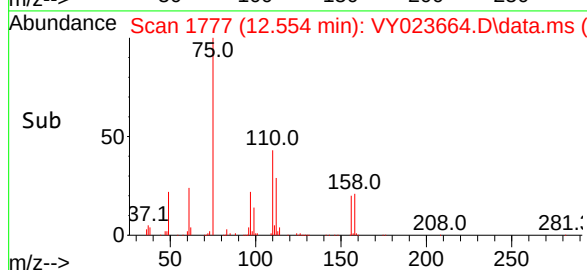
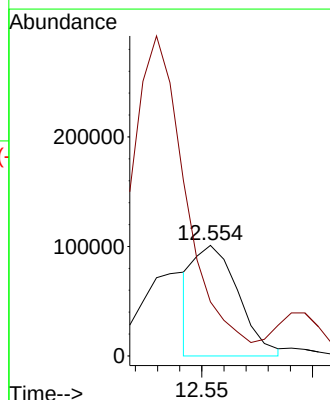
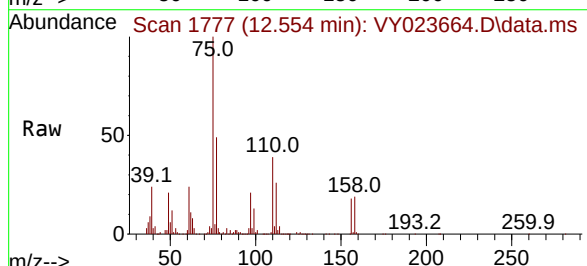
Acq: 04 Nov 2025 10:42

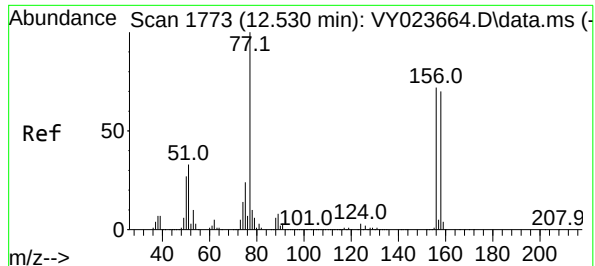
Tgt Ion: 75 Resp: 141409

Ion Ratio Lower Upper

75 100

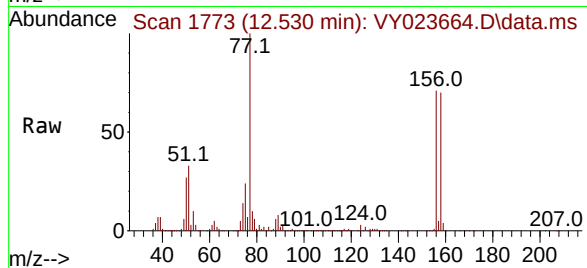
77 0.0 0.0 0.0





#77  
Bromobenzene  
Concen: 49.702 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

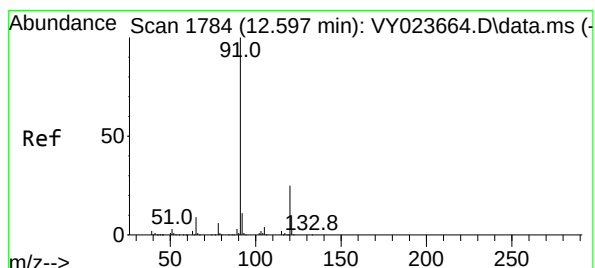
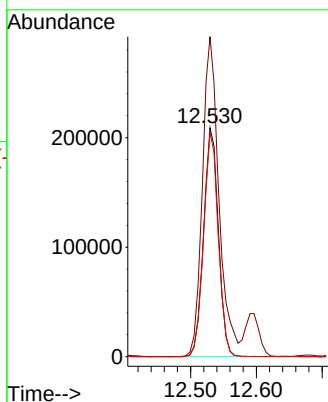
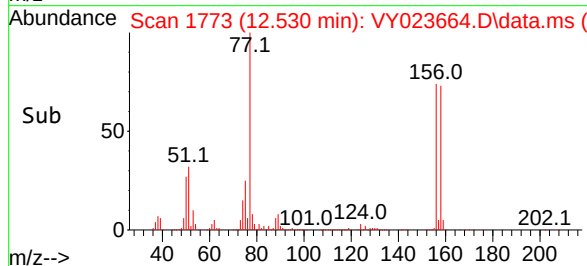
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:156 Resp: 326732  
Ion Ratio Lower Upper  
156 100  
77 155.8 77.9 233.7  
158 97.0 48.5 145.5

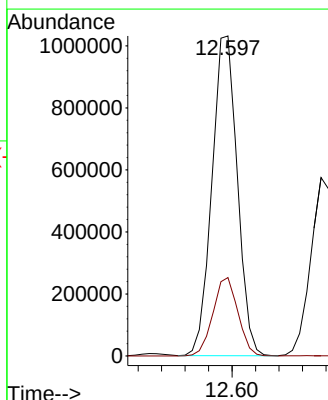
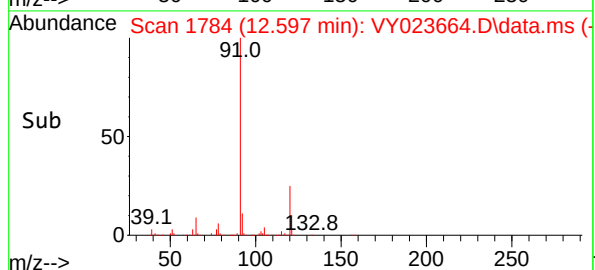
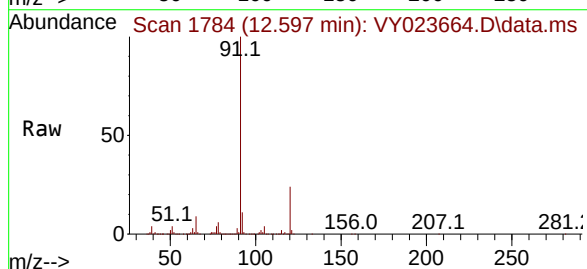
Manual Integrations  
APPROVED

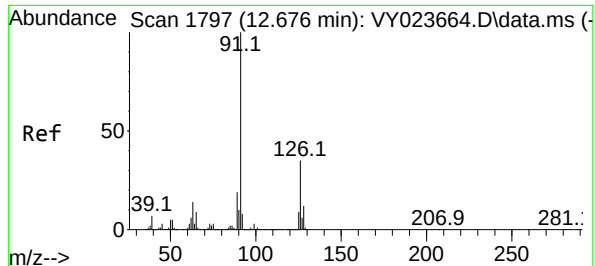
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 51.929 ug/l  
RT: 12.597 min Scan# 1784  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion: 91 Resp: 1548019  
Ion Ratio Lower Upper  
91 100  
120 24.1 12.0 36.1





#79

2-Chlorotoluene

Concen: 50.938 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 881152

Ion Ratio Lower Upper

91 100

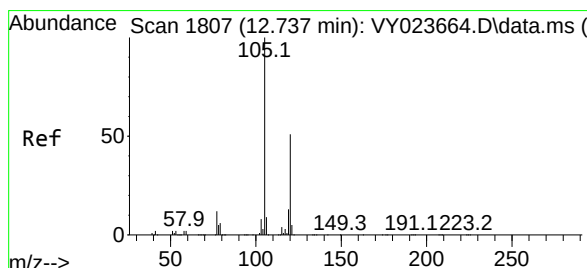
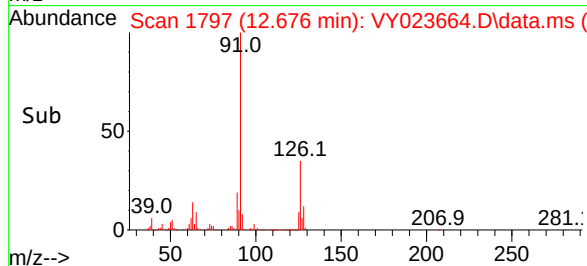
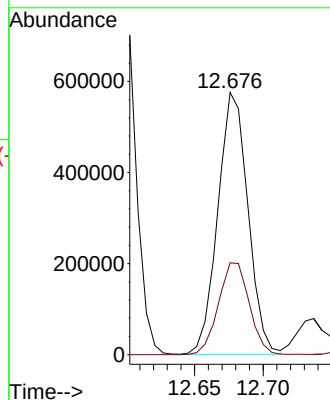
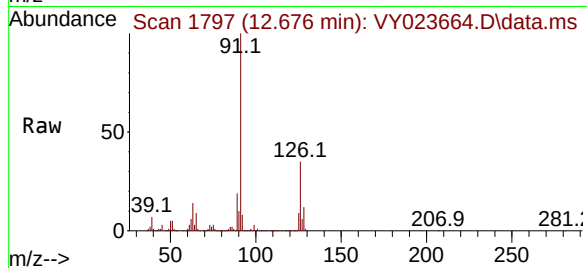
126 36.0 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#80

1,3,5-Trimethylbenzene

Concen: 52.144 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023664.D

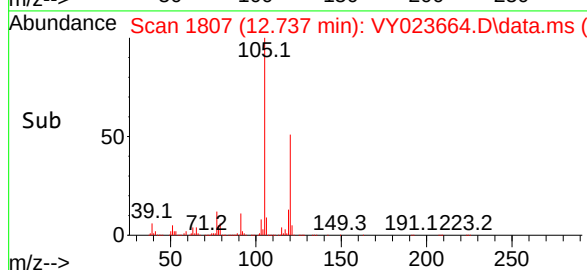
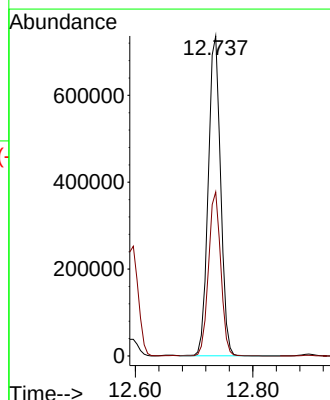
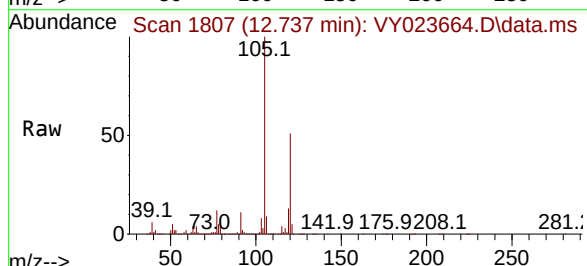
Acq: 04 Nov 2025 10:42

Tgt Ion:105 Resp: 1073705

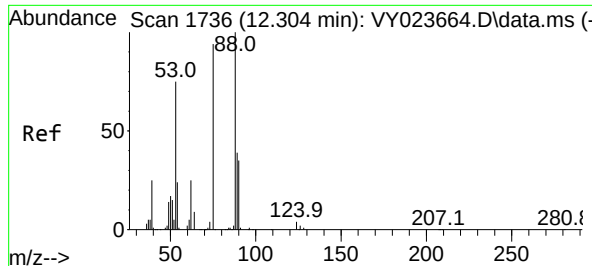
Ion Ratio Lower Upper

105 100

120 50.8 25.4 76.2

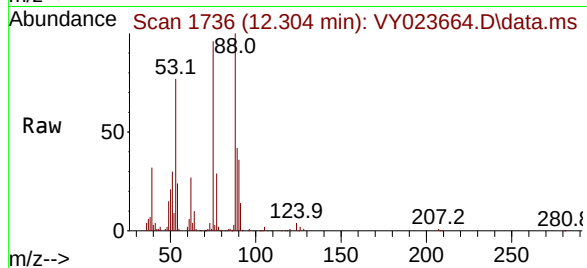






#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.129 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

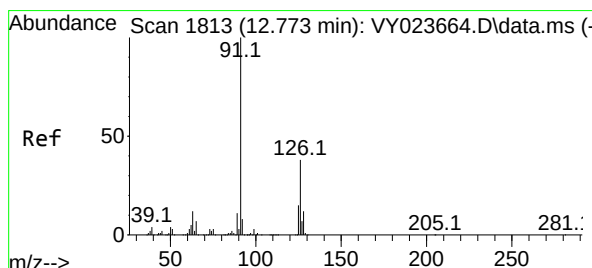
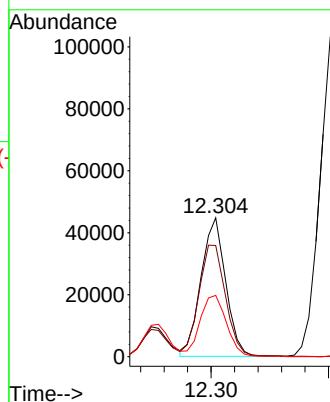
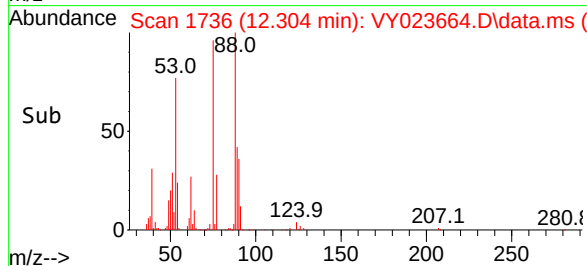
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion: 75 Resp: 65310  
Ion Ratio Lower Upper  
75 100  
53 87.0 69.6 104.4  
89 47.8 38.2 57.4

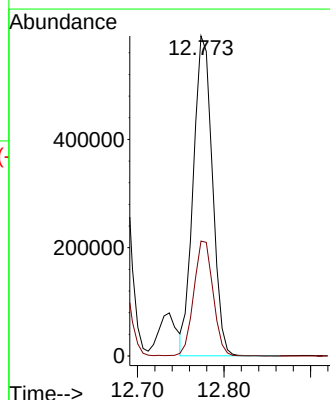
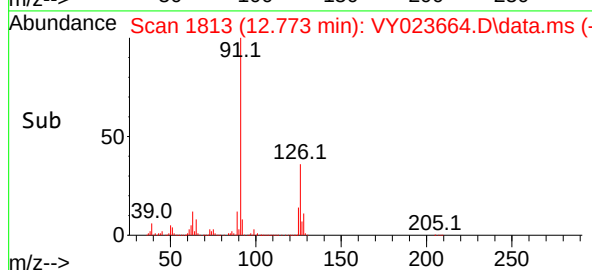
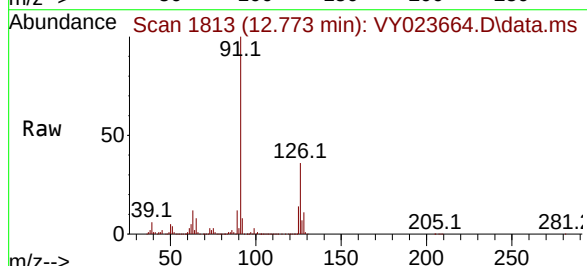
Manual Integrations  
APPROVED

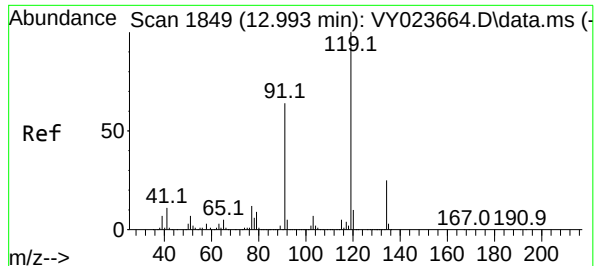
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 50.699 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

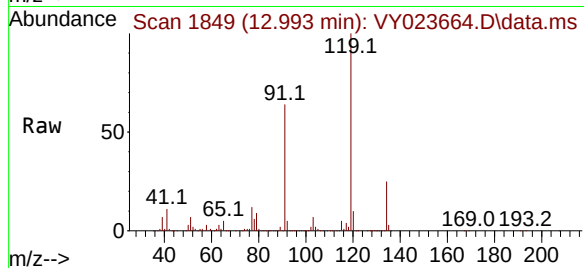
Tgt Ion: 91 Resp: 904469  
Ion Ratio Lower Upper  
91 100  
126 36.3 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 51.686 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

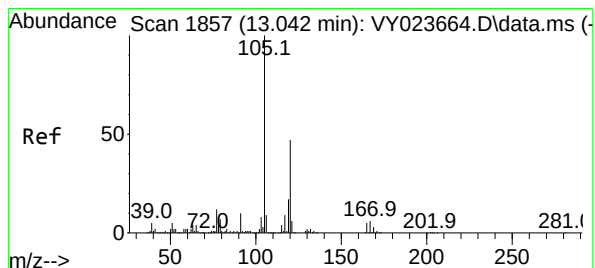
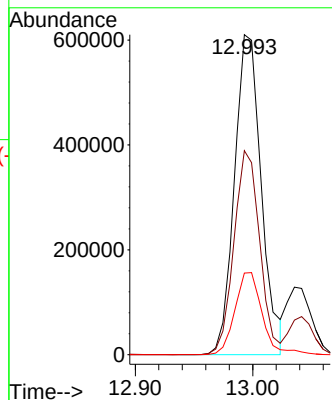
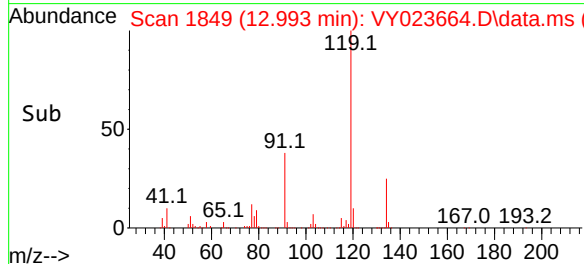
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:119 Resp: 96932  
Ion Ratio Lower Upper  
119 100  
91 61.4 30.7 92.1  
134 26.1 13.1 39.1

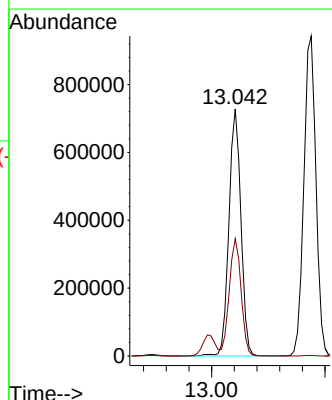
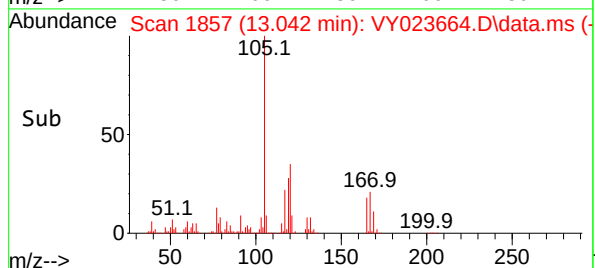
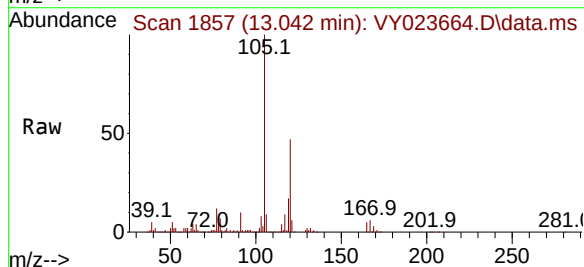
Manual Integrations  
APPROVED

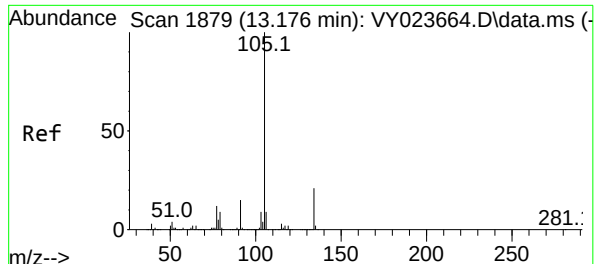
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 52.367 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

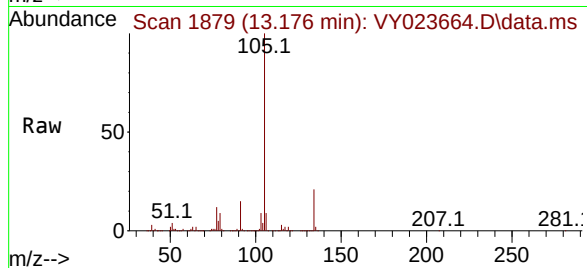
Tgt Ion:105 Resp: 1068009  
Ion Ratio Lower Upper  
105 100  
120 46.4 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 51.485 ug/l  
RT: 13.176 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

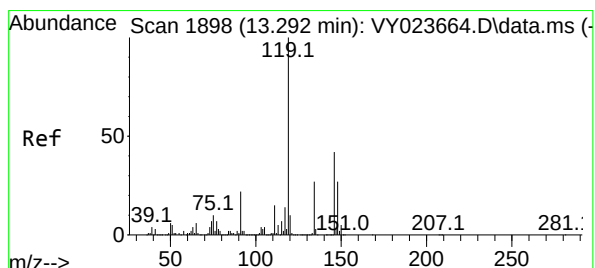
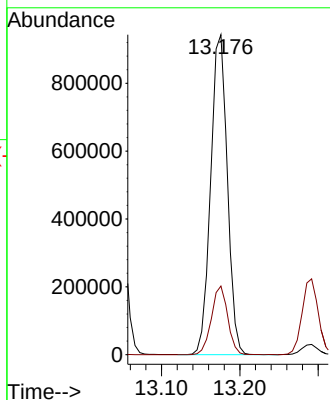
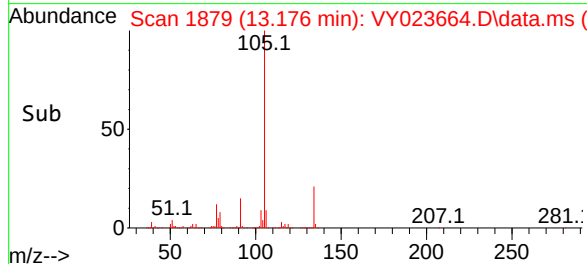
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:105 Resp: 139265  
Ion Ratio Lower Upper  
105 100  
134 20.9 10.4 31.4

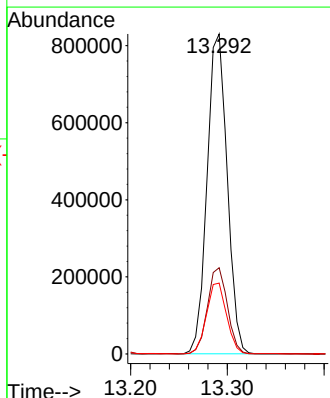
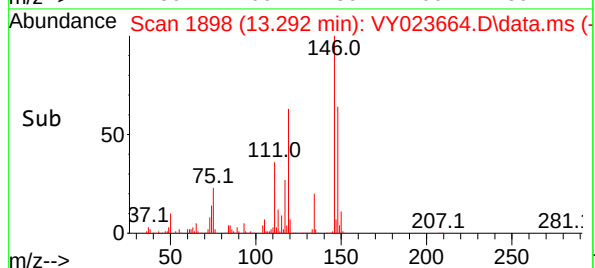
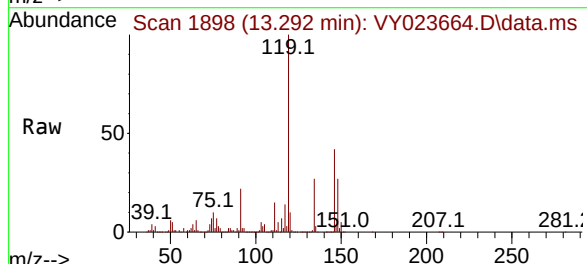
Manual Integrations  
APPROVED

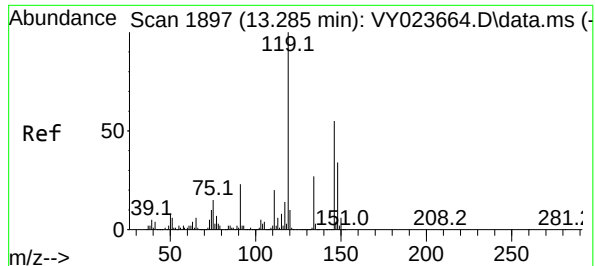
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#86  
p-Isopropyltoluene  
Concen: 52.399 ug/l  
RT: 13.292 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion:119 Resp: 1199869  
Ion Ratio Lower Upper  
119 100  
134 26.8 13.4 40.2  
91 22.1 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 49.605 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 641830

Ion Ratio Lower Upper

146 100

111 37.5 18.8 56.3

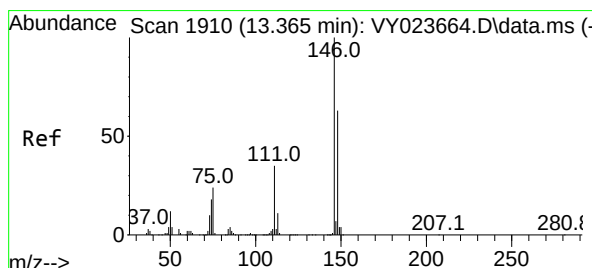
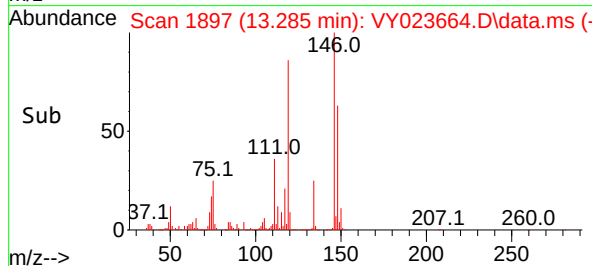
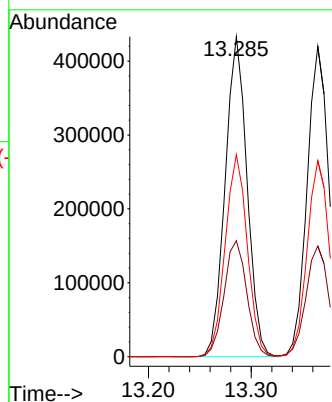
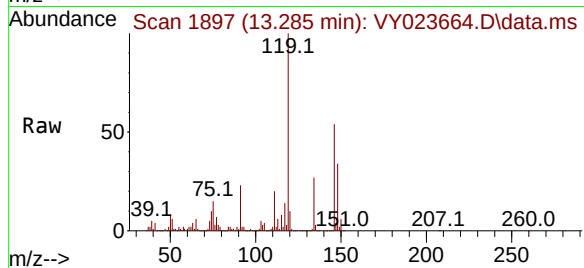
148 63.7 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 49.241 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

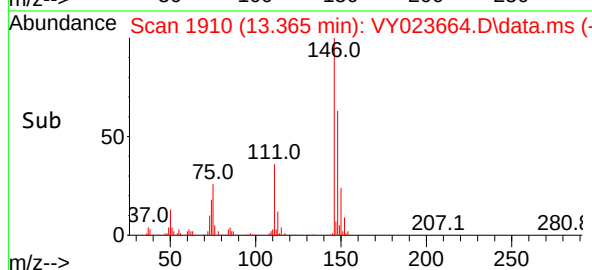
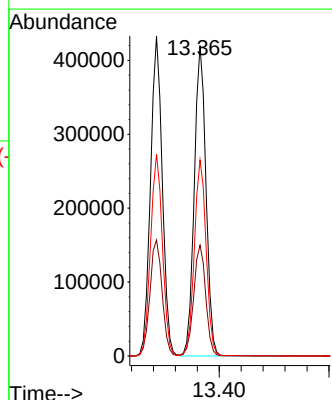
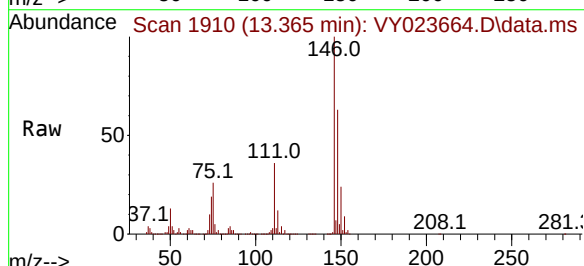
Tgt Ion:146 Resp: 625847

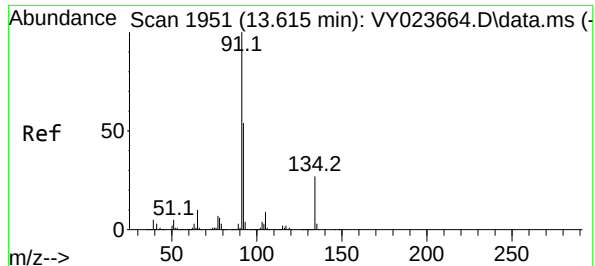
Ion Ratio Lower Upper

146 100

111 36.5 18.3 54.8

148 63.5 31.8 95.3





#89

n-Butylbenzene

Concen: 52.370 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023664.D

Acq: 04 Nov 2025 10:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 1042799

Ion Ratio Lower Upper

91 100

92 52.9 26.5 79.4

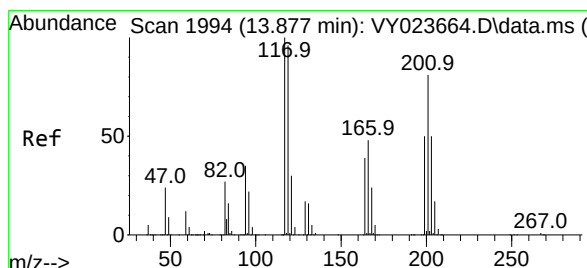
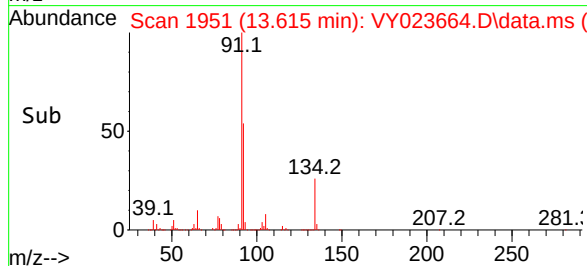
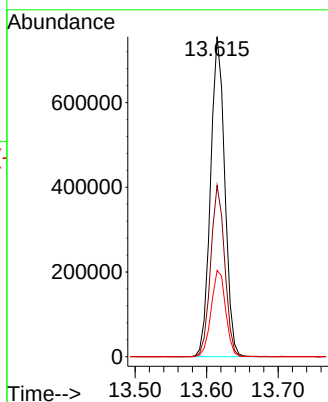
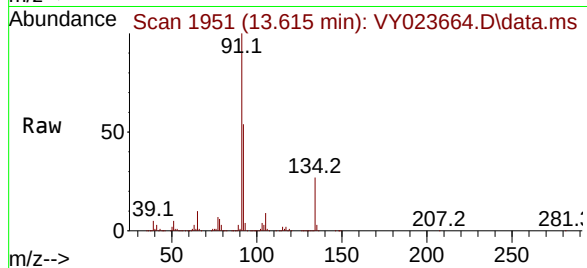
134 27.4 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 49.183 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023664.D

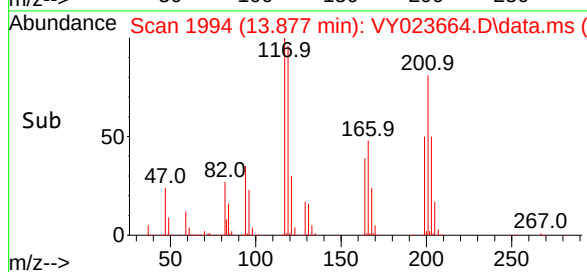
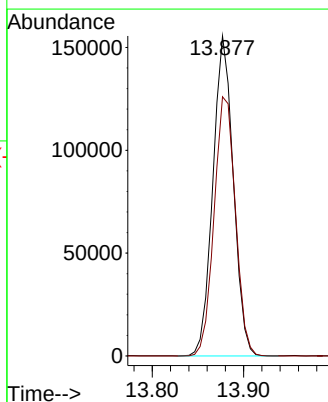
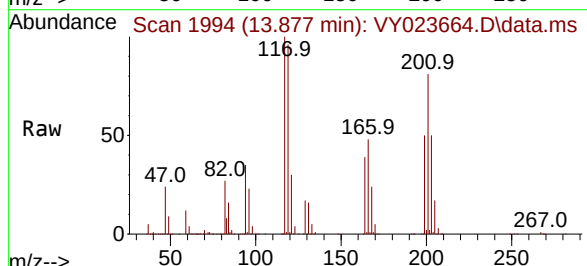
Acq: 04 Nov 2025 10:42

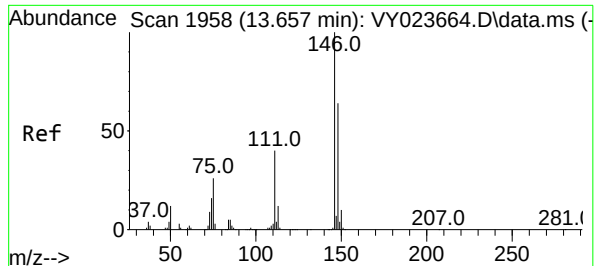
Tgt Ion:117 Resp: 242026

Ion Ratio Lower Upper

117 100

201 84.5 42.3 126.8





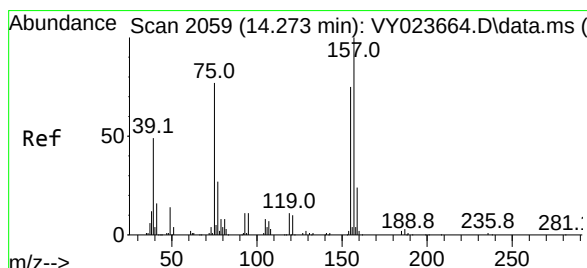
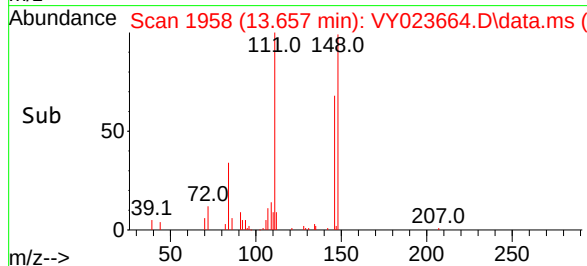
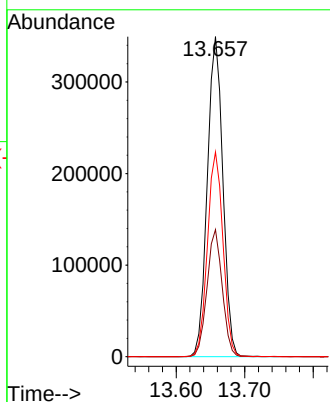
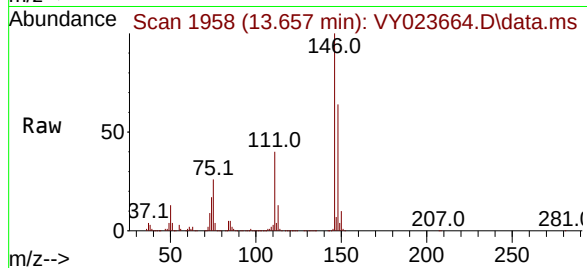
#91  
1,2-Dichlorobenzene  
Concen: 49.400 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050

Tgt Ion:146 Resp: 55083  
Ion Ratio Lower Upper  
146 100  
111 39.0 19.5 58.5  
148 63.9 31.9 95.9

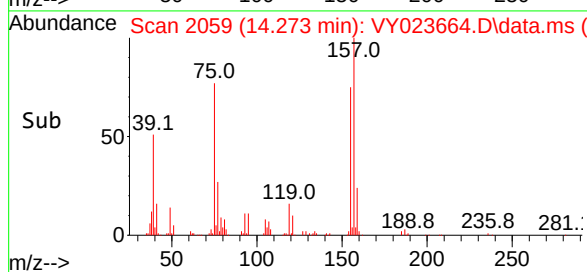
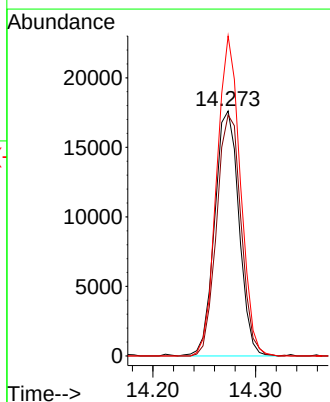
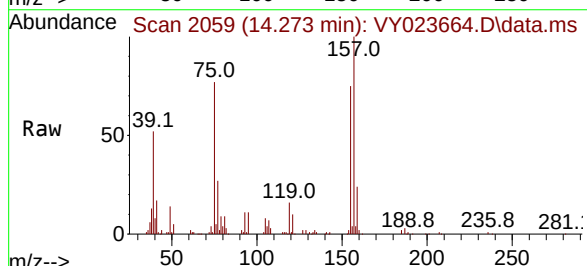
Manual Integrations  
APPROVED

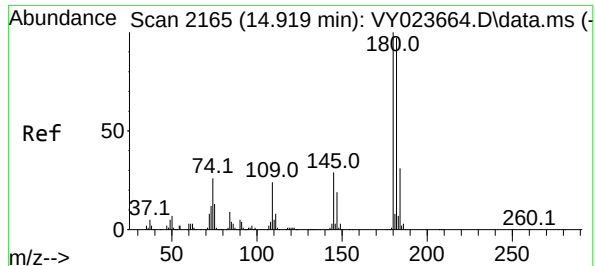
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 46.355 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

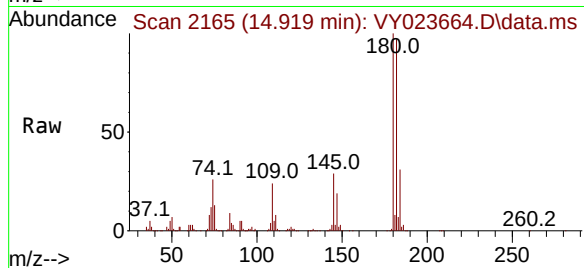
Tgt Ion: 75 Resp: 28889  
Ion Ratio Lower Upper  
75 100  
155 98.8 49.4 148.2  
157 126.5 63.2 189.8





#93  
1,2,4-Trichlorobenzene  
Concen: 50.677 ug/l  
RT: 14.919 min Scan# 2165  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

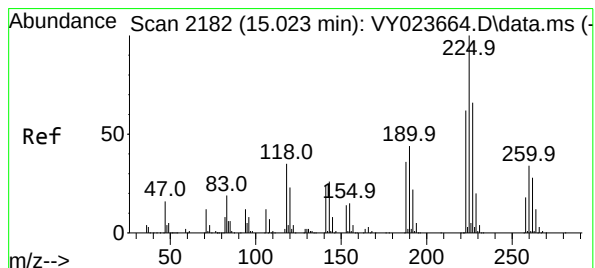
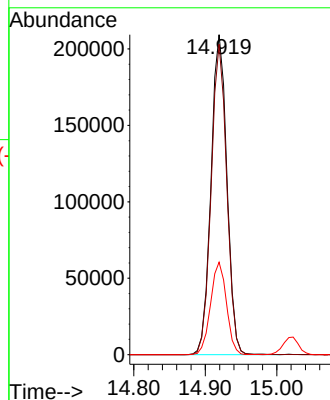
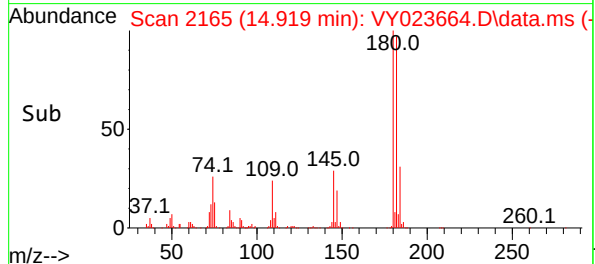
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:180 Resp: 323218  
Ion Ratio Lower Upper  
180 100  
182 95.1 47.5 142.6  
145 28.9 14.4 43.4

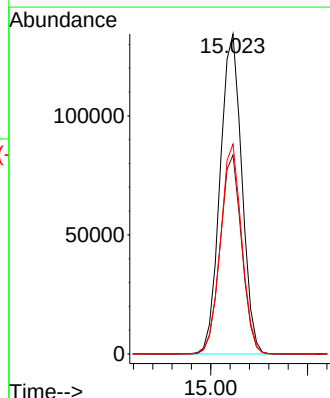
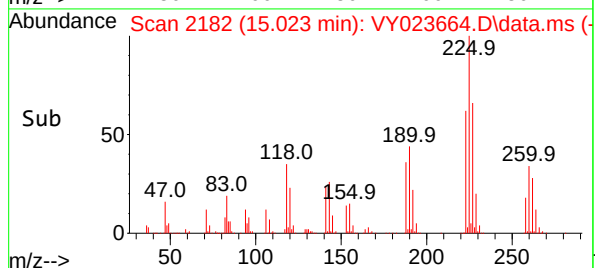
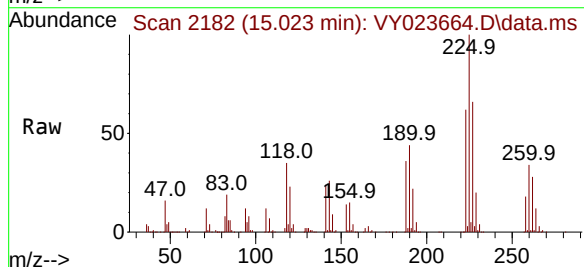
Manual Integrations  
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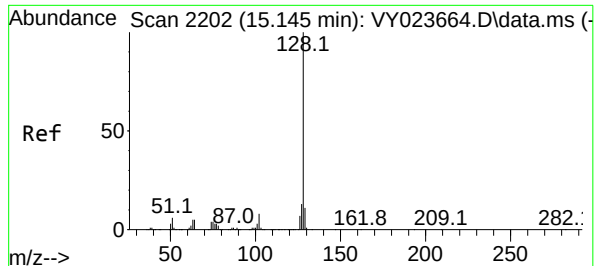
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#94  
Hexachlorobutadiene  
Concen: 50.032 ug/l  
RT: 15.023 min Scan# 2182  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

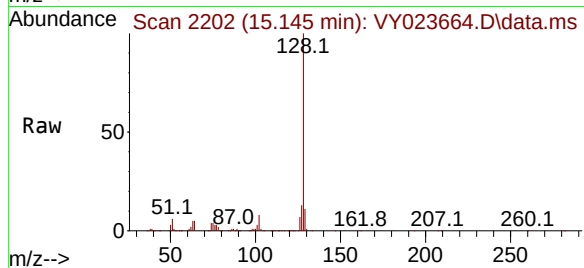
Tgt Ion:225 Resp: 209077  
Ion Ratio Lower Upper  
225 100  
223 61.5 30.8 92.3  
227 64.1 32.0 96.2





#95  
Naphthalene  
Concen: 44.734 ug/l  
RT: 15.145 min Scan# 2202  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

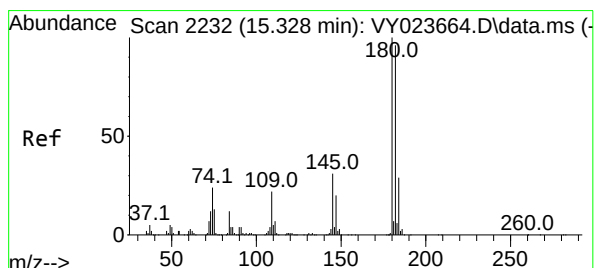
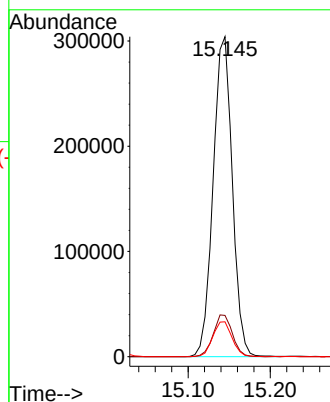
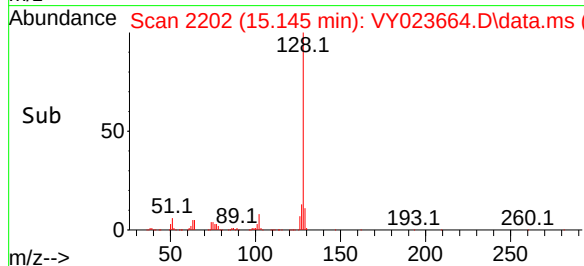
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICCC050



Tgt Ion:128 Resp: 491880  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 11.0 8.8 13.2

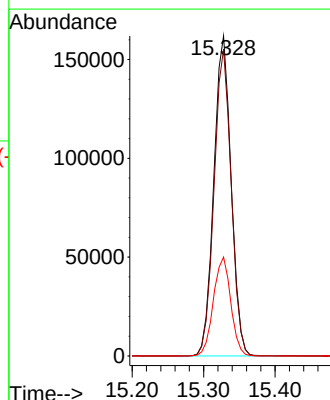
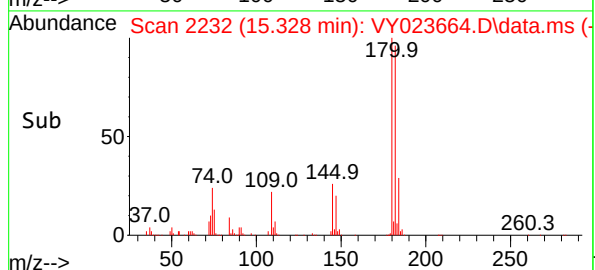
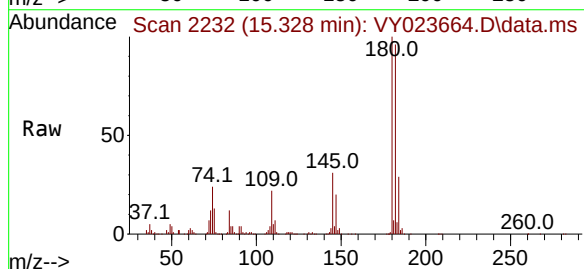
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 51.002 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023664.D  
Acq: 04 Nov 2025 10:42

Tgt Ion:180 Resp: 271777  
Ion Ratio Lower Upper  
180 100  
182 95.1 47.5 142.6  
145 31.0 15.5 46.5





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023665.D  
 Acq On : 04 Nov 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:29:43 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 565663               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 831963               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 740642               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 370503               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 480881               | 99.661  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 199.320%# |         |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 529343               | 101.812 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 203.620%# |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 2036678              | 105.160 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 210.320%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 665813               | 106.305 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 212.600%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 321162               | 86.493  | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 479848               | 92.348  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.208          | 62   | 629525               | 93.106  | ug/l   | 99       |
| 5) Bromomethane              | 2.592          | 94   | 525066               | 92.319  | ug/l   | 98       |
| 6) Chloroethane              | 2.733          | 64   | 445045               | 95.235  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 884872               | 92.924  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.458          | 74   | 260634               | 102.064 | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 496959               | 94.721  | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 661306               | 106.741 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 149691               | 481.121 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 499345               | 98.802  | ug/l   | 100      |
| 13) Acrolein                 | 3.653          | 56   | 191158               | 478.014 | ug/l   | 99       |
| 14) Allyl chloride           | 4.385          | 41   | 652452               | 106.061 | ug/l   | 99       |
| 15) Acrylonitrile            | 5.061          | 53   | 521023               | 533.895 | ug/l   | 99       |
| 16) Acetone                  | 3.866          | 43   | 591155               | 492.879 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.110          | 76   | 1505201              | 97.036  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.385          | 43   | 289722               | 109.515 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 1280442              | 109.260 | ug/l   | 100      |
| 20) Methylene Chloride       | 4.616          | 84   | 538051               | 92.927  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 576752               | 101.211 | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.025          | 45   | 1476751              | 107.734 | ug/l   | 98       |
| 23) Vinyl Acetate            | 5.964          | 43   | 4052575              | 554.021 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 920205               | 100.771 | ug/l   | 99       |
| 25) 2-Butanone               | 6.890          | 43   | 716857               | 516.946 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 836165               | 99.545  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 677651               | 104.123 | ug/l   | 100      |
| 28) Bromochloromethane       | 7.250          | 49   | 351637               | 100.569 | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 407174               | 551.338 | ug/l   | 98       |
| 30) Chloroform               | 7.421          | 83   | 1015475              | 99.668  | ug/l   | 100      |
| 31) Cyclohexane              | 7.701          | 56   | 785863               | 98.820  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 908433               | 99.760  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 702866               | 101.168 | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 287737               | 106.984 | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 821264               | 100.329 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.109          | 83   | 946648               | 106.639 | ug/l   | 99       |
| 40) Benzene                  | 8.079          | 78   | 2238265              | 102.208 | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023665.D  
 Acq On : 04 Nov 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:29:43 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 162465   | 113.249  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 564693   | 101.924  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 559293   | 110.678  | ug/l # | 87       |
| 44) Trichloroethene           | 8.866  | 130  | 626949   | 99.676   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 494430   | 102.300  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 308450   | 103.001  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.426  | 83   | 780217   | 103.338  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.219  | 41   | 273819   | 114.688  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 66284    | 2162.837 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 1509447  | 561.674  | ug/l   | 99       |
| 52) Toluene                   | 10.170 | 92   | 1494139  | 106.868  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 708290   | 110.869  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 824093   | 107.667  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 414987   | 103.695  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 529329   | 120.046  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 663870   | 104.582  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 1213712  | 599.849  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 1099726  | 560.896  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 577908   | 105.098  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 396076   | 105.457  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 741118   | 96.137   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.438 | 112  | 1639055  | 101.655  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 583207   | 102.290  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 2825731  | 108.283  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 2241551  | 214.992  | ug/l   | 99       |
| 69) o-Xylene                  | 11.950 | 106  | 1062605  | 110.253  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 1753830  | 110.290  | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 351826   | 105.656  | ug/l   | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 2698043  | 108.880  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.066 | 43   | 491427   | 117.135  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 421715   | 106.557  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 294519m  | 98.221   | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 677938   | 105.471  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.591 | 91   | 3116044  | 106.906  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 1783319  | 105.435  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 2181015  | 108.328  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 142192   | 107.168  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 1818934  | 104.277  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 2013210  | 109.789  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 2172108  | 108.924  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 2838051  | 107.306  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.286 | 119  | 2438892  | 108.929  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 1292429  | 102.159  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 1243927  | 100.096  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 2131963  | 109.503  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.877 | 117  | 492034   | 102.262  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 1107343  | 101.567  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 64052    | 105.113  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 691314   | 110.855  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 415145   | 101.602  | ug/l   | 99       |
| 95) Naphthalene               | 15.139 | 128  | 1145310  | 99.258   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 579136   | 111.152  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023665.D  
Acq On : 04 Nov 2025 11:05  
Operator : SY/MD  
Sample : VSTDICC100  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Manual Integrations  
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Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:29:43 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

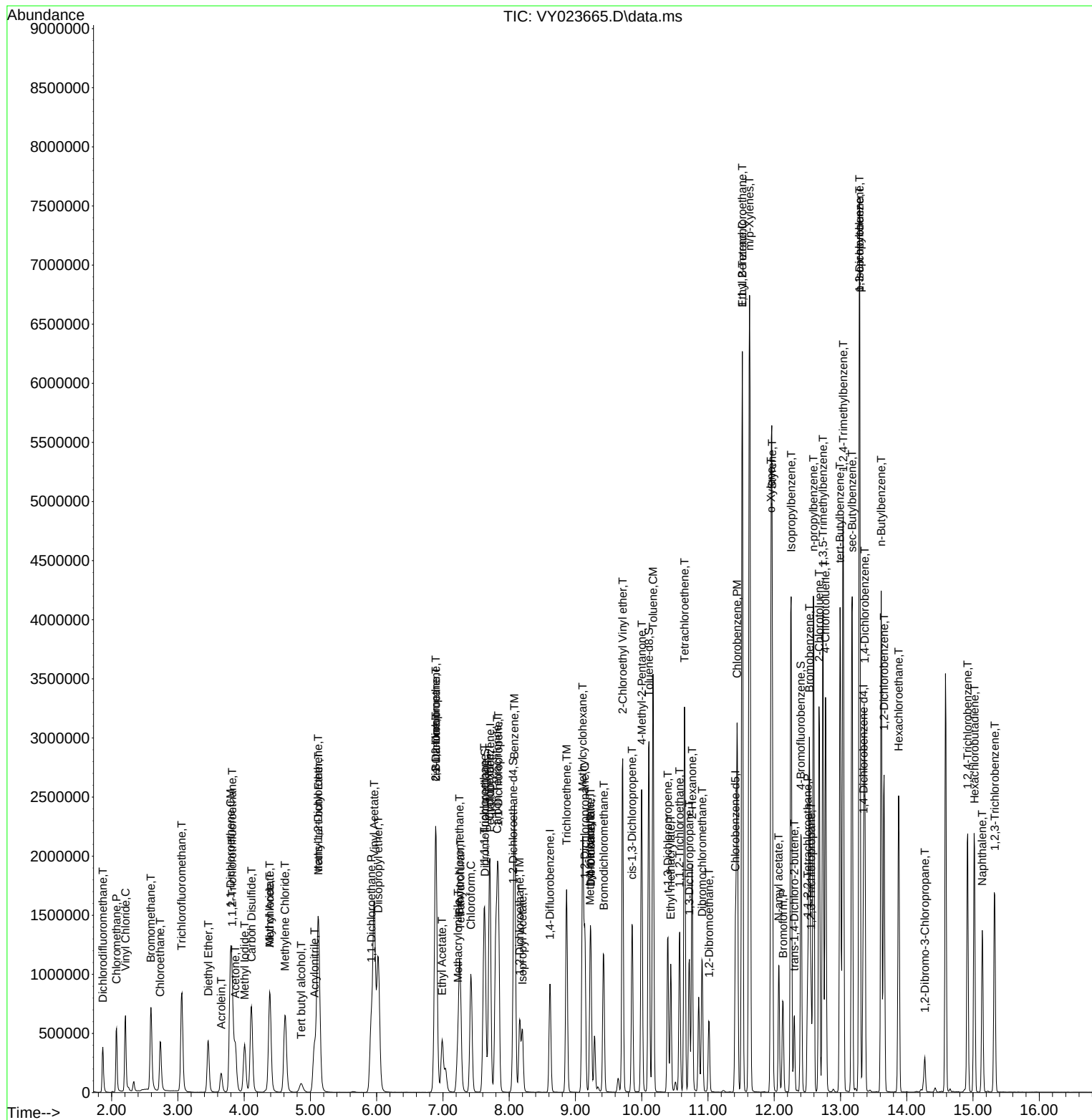
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

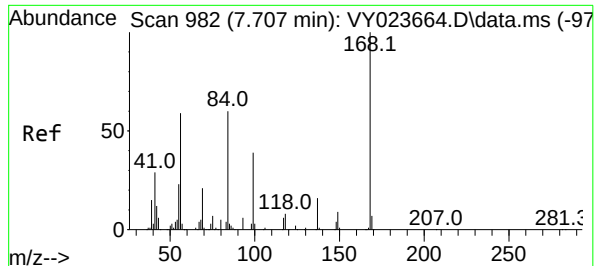
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VSTDICC100

## Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025





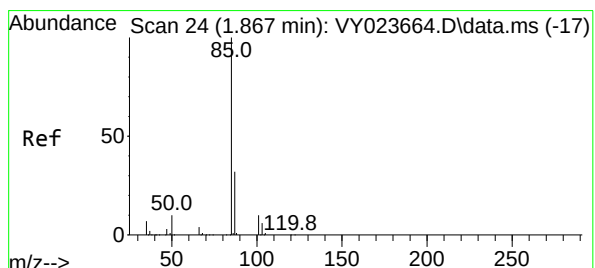
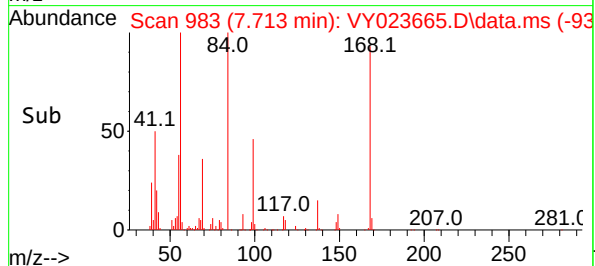
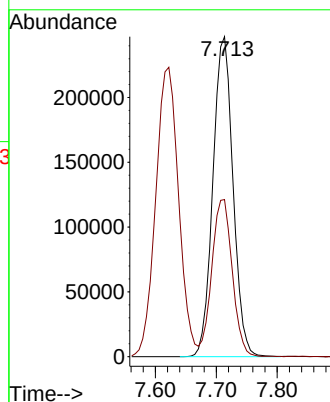
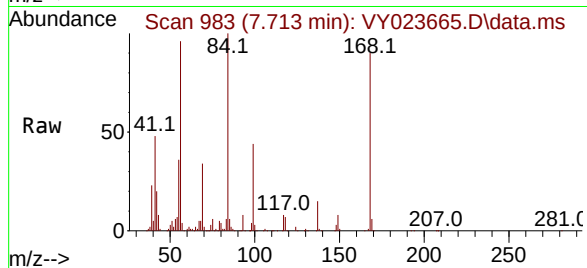
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion:168 Resp: 56566  
Ion Ratio Lower Upper  
168 100  
99 49.0 41.0 61.4

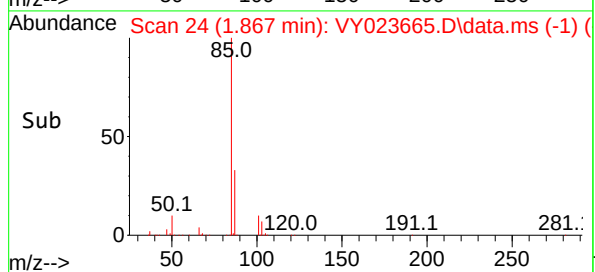
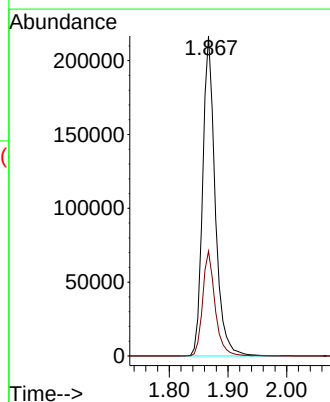
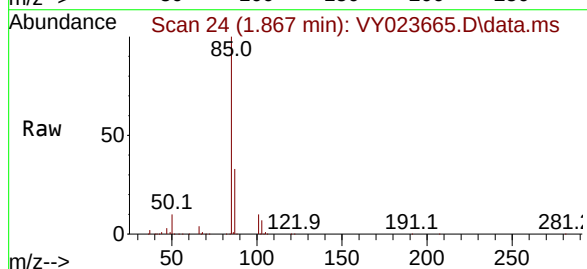
Manual Integrations  
APPROVED

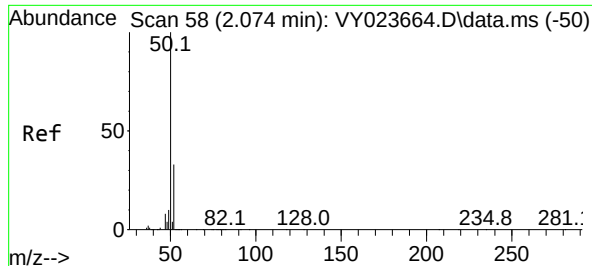
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 86.493 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

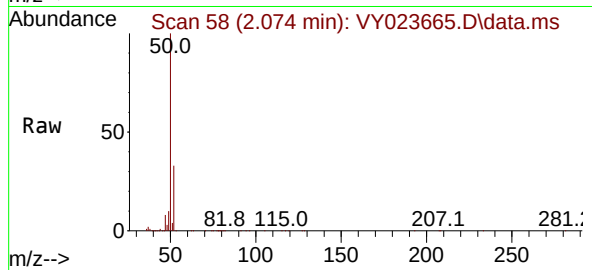
Tgt Ion: 85 Resp: 321162  
Ion Ratio Lower Upper  
85 100  
87 32.8 16.2 48.6





#3  
Chloromethane  
Concen: 92.348 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

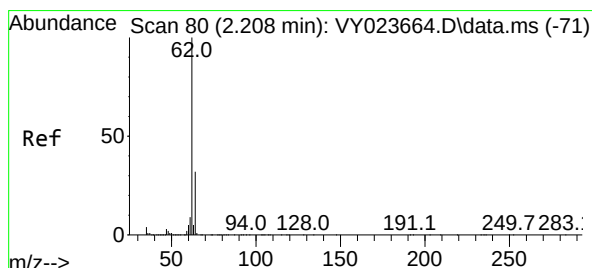
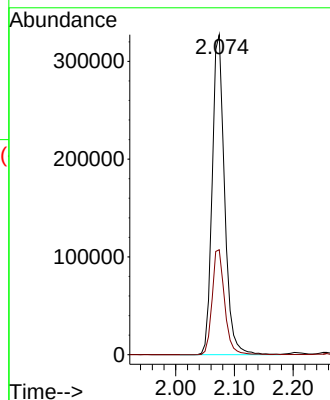
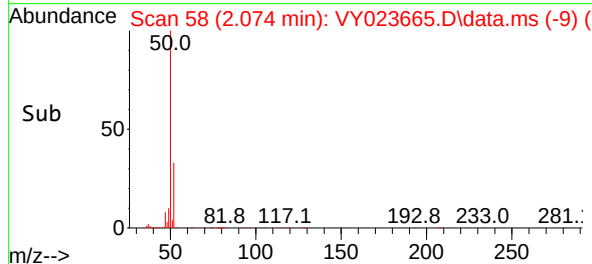
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



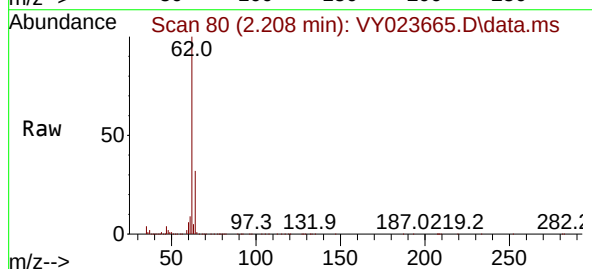
Tgt Ion: 50 Resp: 479848  
Ion Ratio Lower Upper  
50 100  
52 32.8 26.5 39.7

Manual Integrations  
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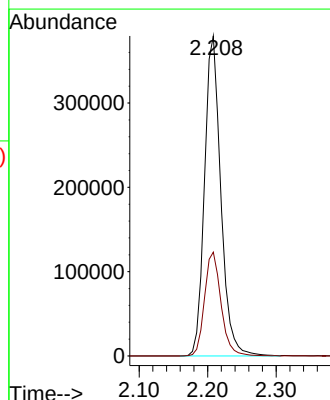
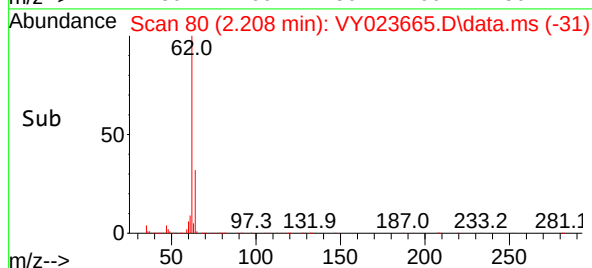
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

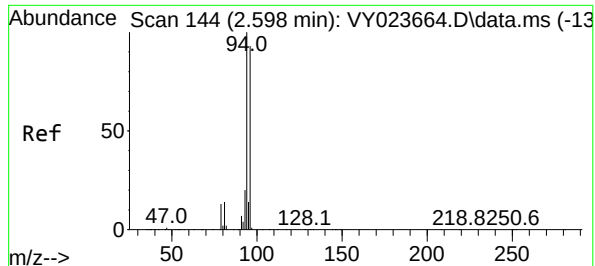


#4  
Vinyl Chloride  
Concen: 93.106 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



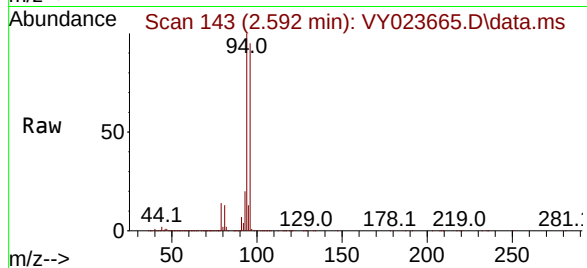
Tgt Ion: 62 Resp: 629525  
Ion Ratio Lower Upper  
62 100  
64 32.5 25.7 38.5





#5  
Bromomethane  
Concen: 92.319 ug/l  
RT: 2.592 min Scan# 144  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

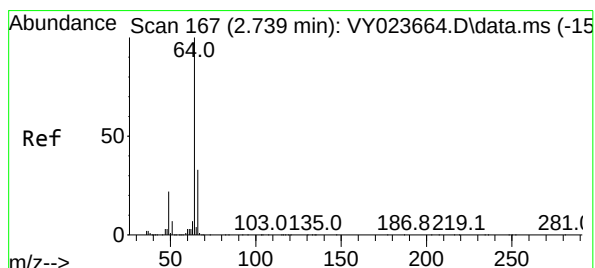
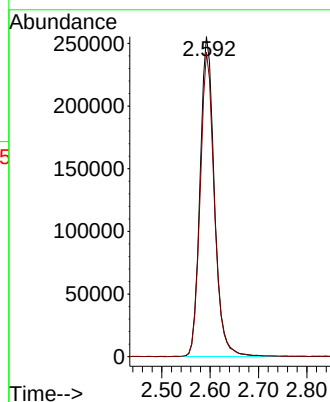
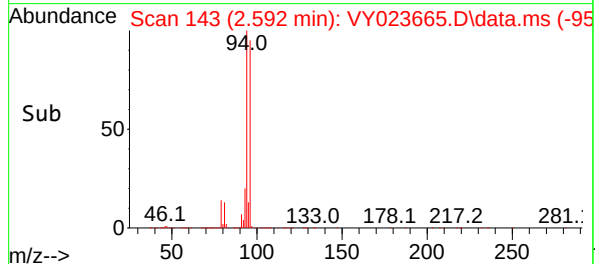
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



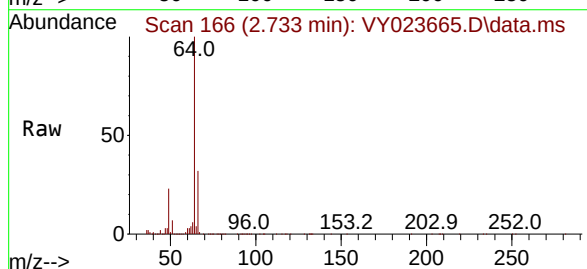
Tgt Ion: 94 Resp: 525060  
Ion Ratio Lower Upper  
94 100  
96 95.0 74.4 111.6

Manual Integrations  
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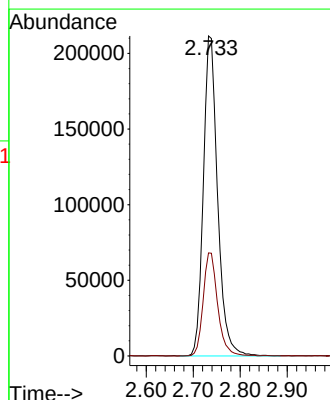
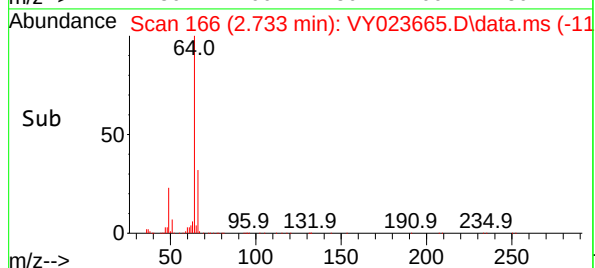
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

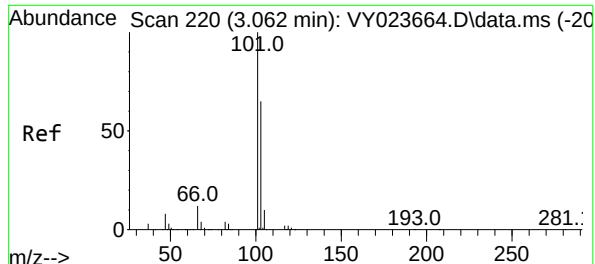


#6  
Chloroethane  
Concen: 95.235 ug/l  
RT: 2.733 min Scan# 166  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



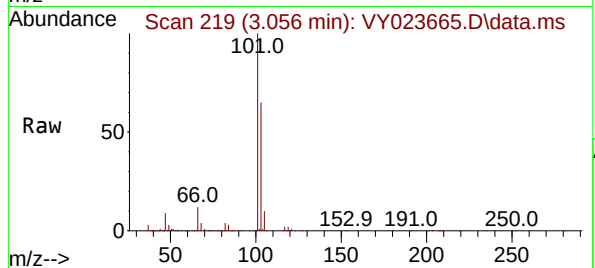
Tgt Ion: 64 Resp: 445045  
Ion Ratio Lower Upper  
64 100  
66 32.2 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 92.924 ug/l  
RT: 3.056 min Scan# 219  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

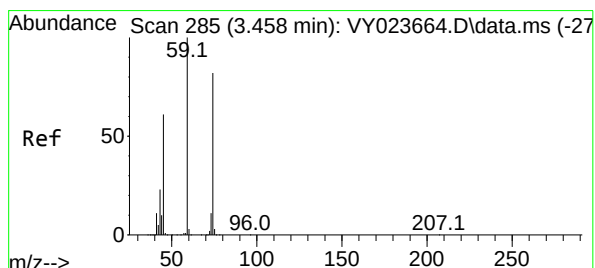
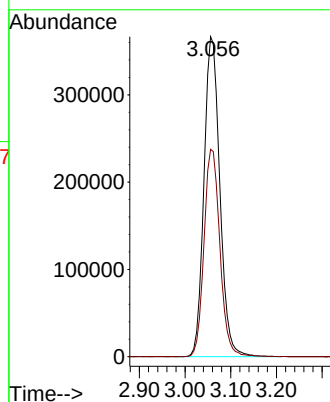
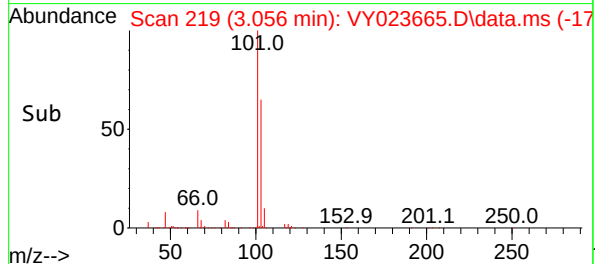
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:101 Resp: 884872  
Ion Ratio Lower Upper  
101 100  
103 64.8 52.1 78.1

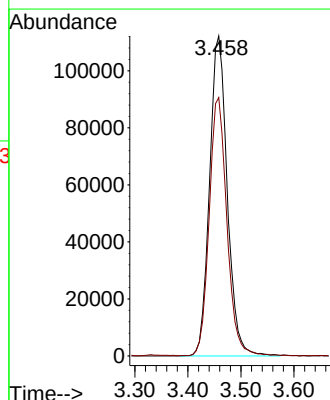
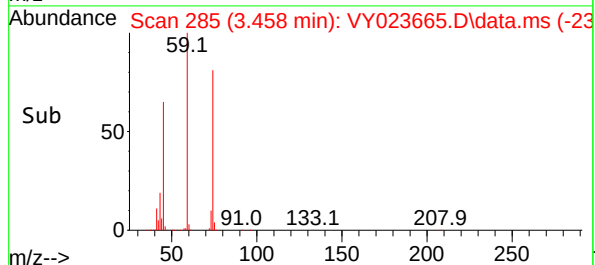
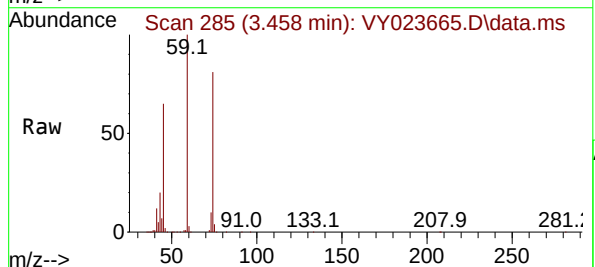
Manual Integrations  
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Supervised By :Mahesh Dadoda 11/05/2025

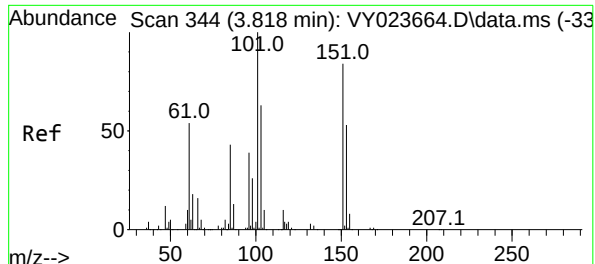


#8  
Diethyl Ether  
Concen: 102.064 ug/l  
RT: 3.458 min Scan# 285  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion: 74 Resp: 260634  
Ion Ratio Lower Upper  
74 100  
45 80.7 40.6 121.7







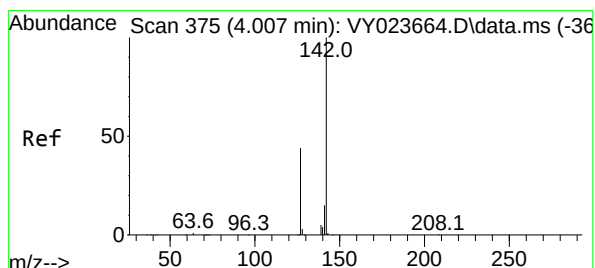
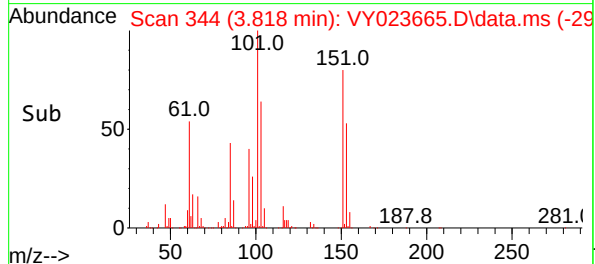
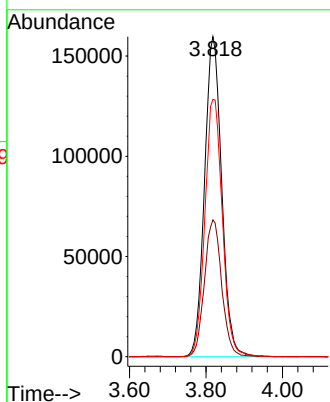
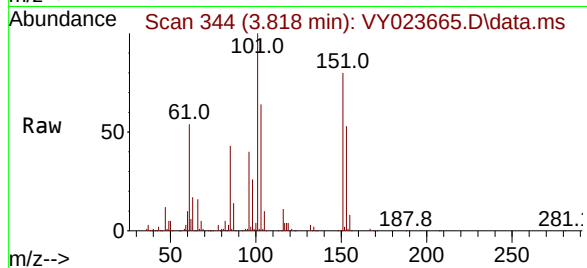
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 94.721 ug/l  
RT: 3.818 min Scan# 344  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion:101 Resp: 496959  
Ion Ratio Lower Upper  
101 100  
85 43.2 34.4 51.6  
151 82.0 65.6 98.4

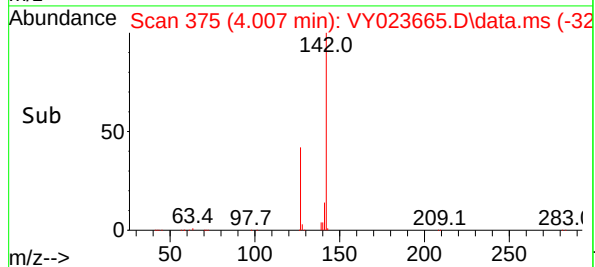
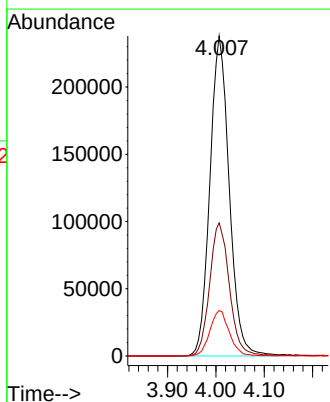
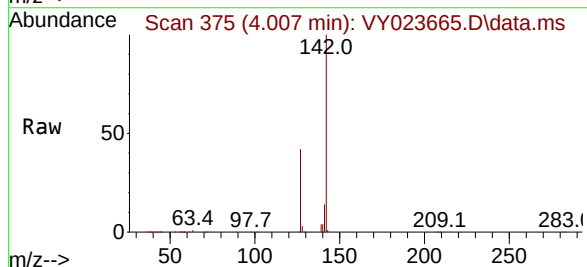
Manual Integrations  
APPROVED

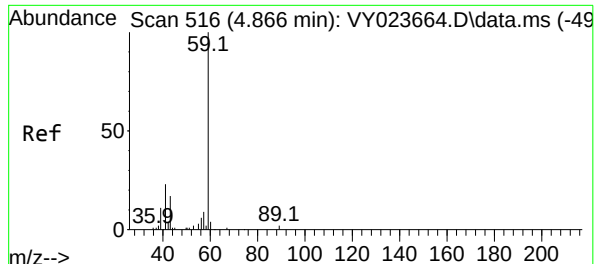
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#10  
Methyl Iodide  
Concen: 106.741 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion:142 Resp: 661306  
Ion Ratio Lower Upper  
142 100  
127 42.6 34.6 51.8  
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 481.121 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 14969

Ion Ratio Lower Upper

59 100

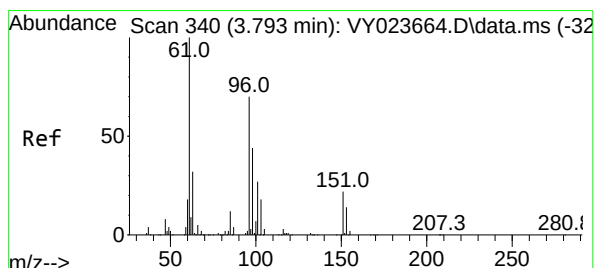
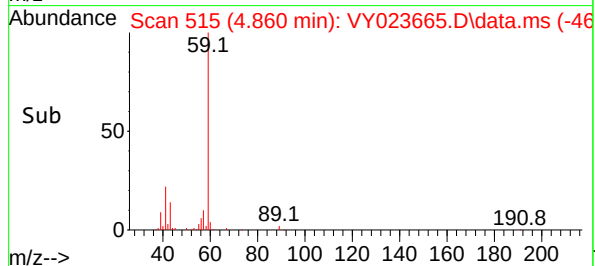
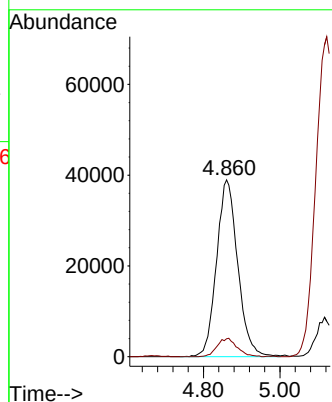
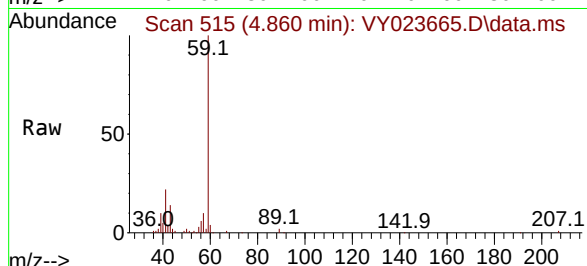
57 9.9 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 98.802 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

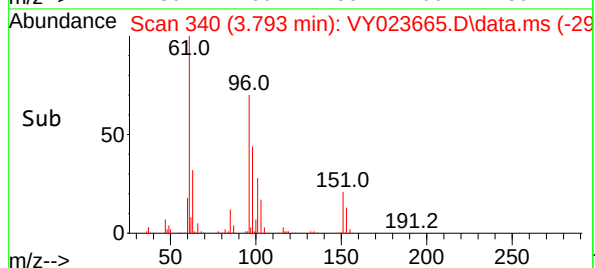
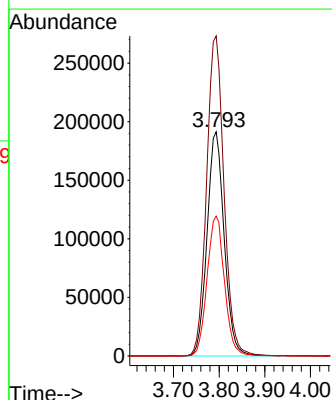
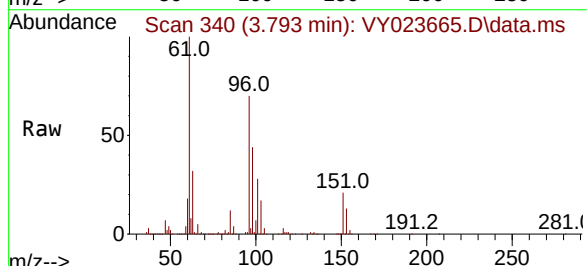
Tgt Ion: 96 Resp: 499345

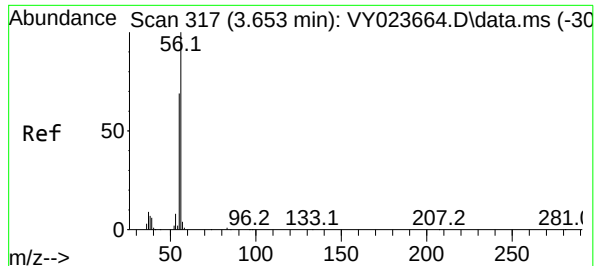
Ion Ratio Lower Upper

96 100

61 142.8 114.0 171.0

98 62.4 50.2 75.2





#13

Acrolein

Concen: 478.014 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 191158

Ion Ratio Lower Upper

56 100

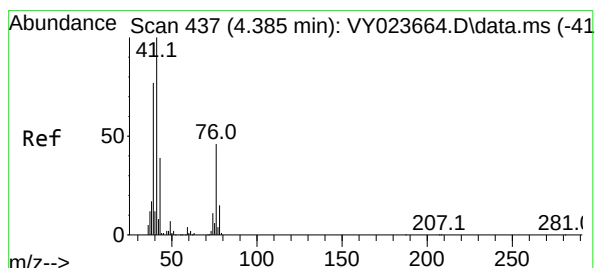
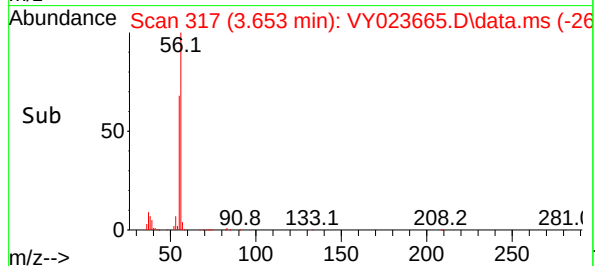
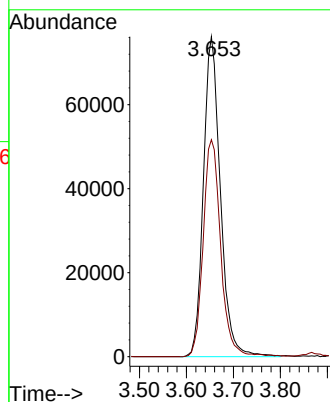
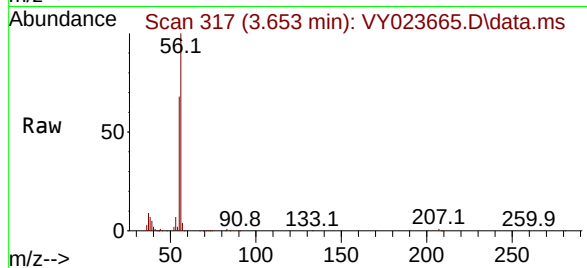
55 69.8 56.6 84.8

Manual Integrations

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Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 106.061 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

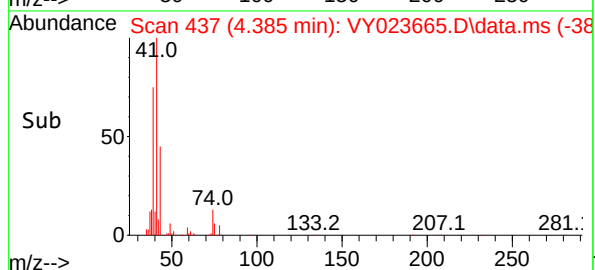
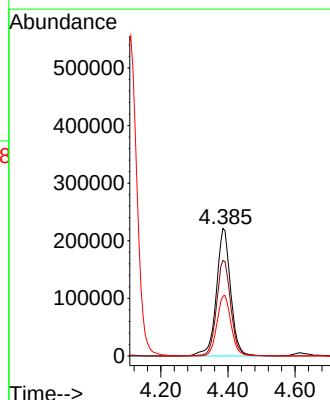
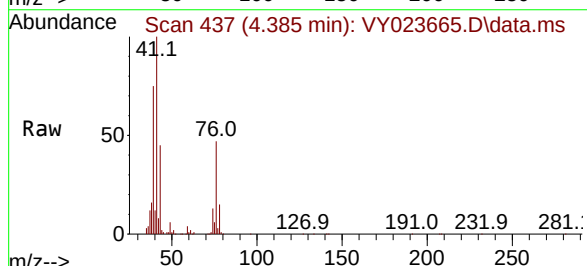
Tgt Ion: 41 Resp: 652452

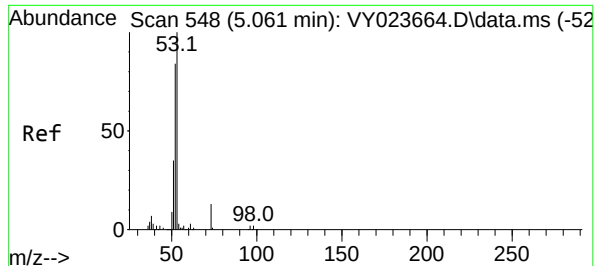
Ion Ratio Lower Upper

41 100

39 74.9 60.4 90.6

76 46.6 38.0 57.0





#15

Acrylonitrile

Concen: 533.895 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 52102

Ion Ratio Lower Upper

53 100

52 80.3 64.9 97.3

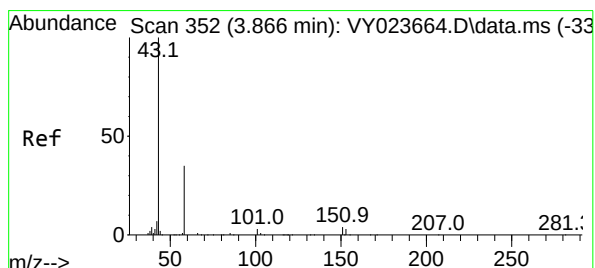
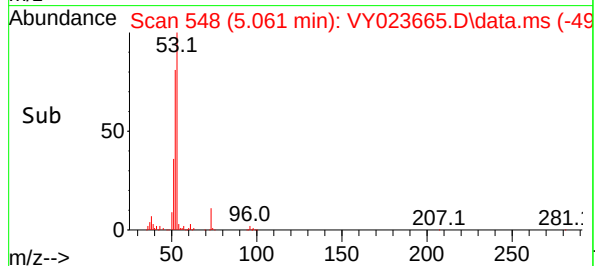
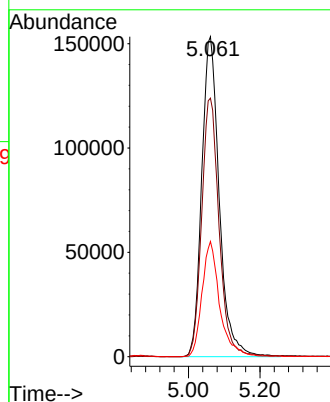
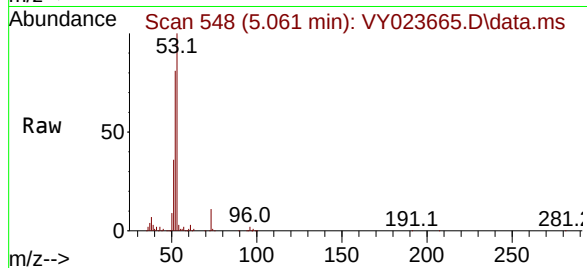
51 36.4 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 492.879 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023665.D

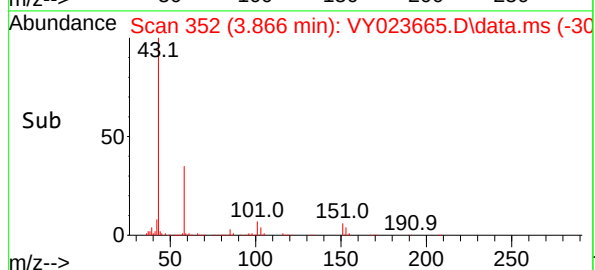
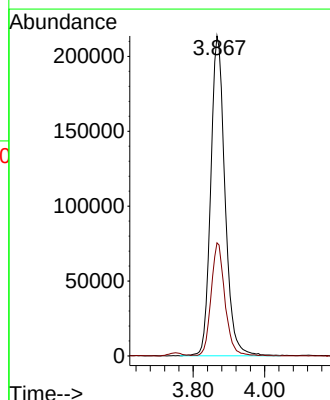
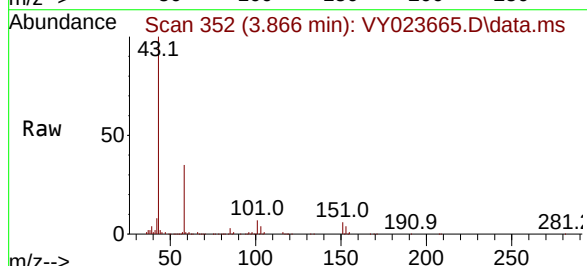
Acq: 04 Nov 2025 11:05

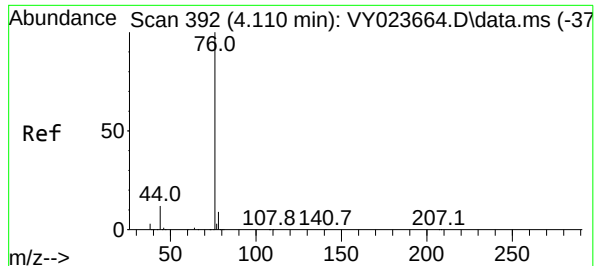
Tgt Ion: 43 Resp: 591155

Ion Ratio Lower Upper

43 100

58 35.3 28.2 42.4





#17

Carbon Disulfide

Concen: 97.036 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 150520

Ion Ratio Lower Upper

76 100

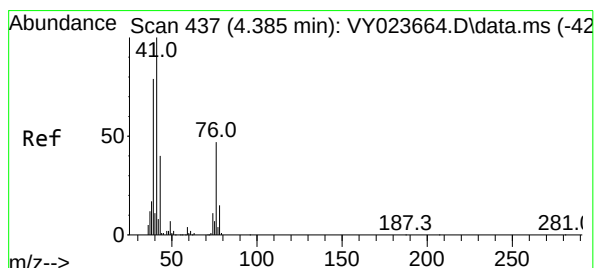
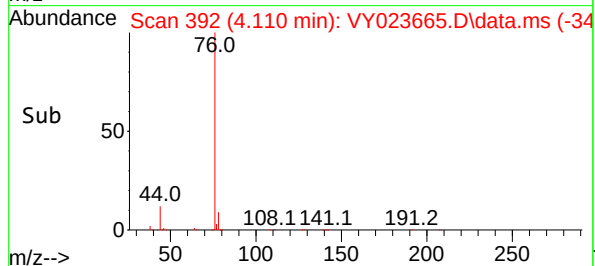
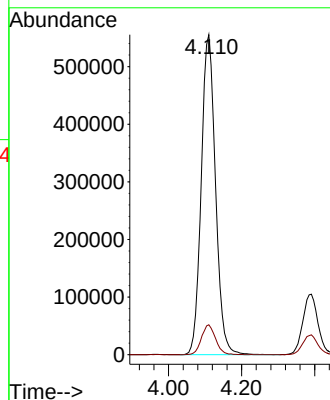
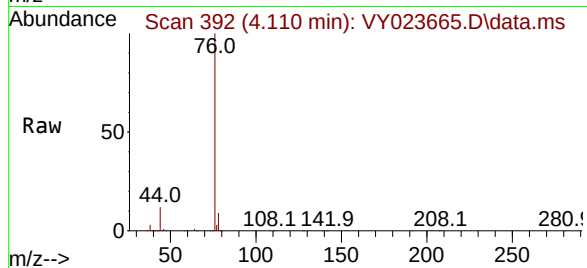
78 9.3 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#18

Methyl Acetate

Concen: 109.515 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023665.D

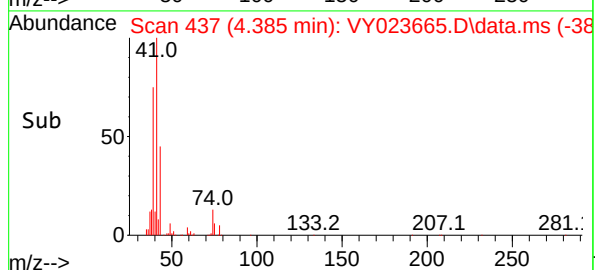
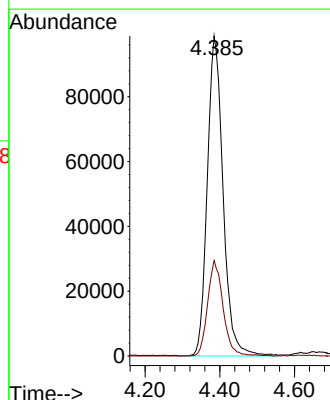
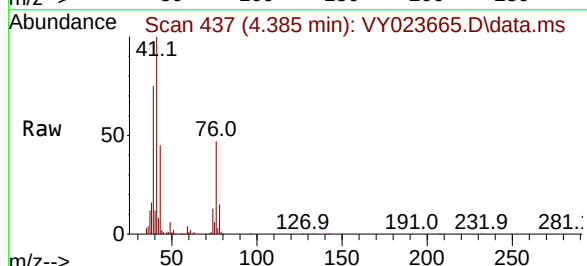
Acq: 04 Nov 2025 11:05

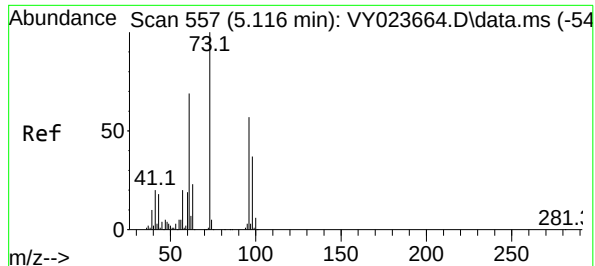
Tgt Ion: 43 Resp: 289722

Ion Ratio Lower Upper

43 100

74 29.1 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 109.260 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 73 Resp: 128044

Ion Ratio Lower Upper

73 100

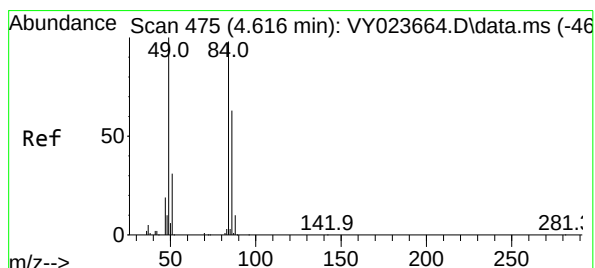
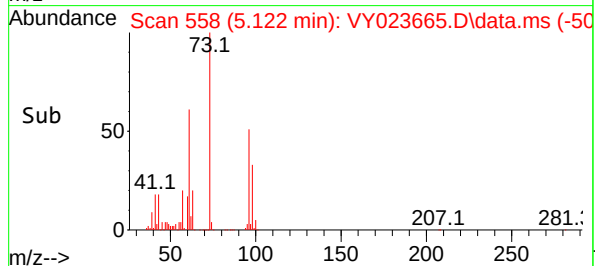
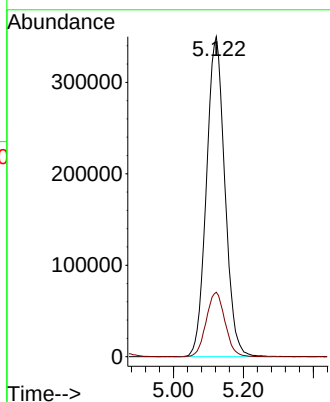
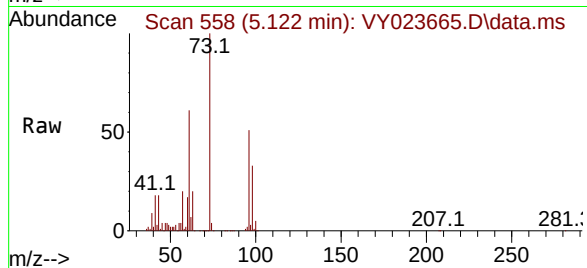
57 20.2 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 92.927 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Tgt Ion: 84 Resp: 538051

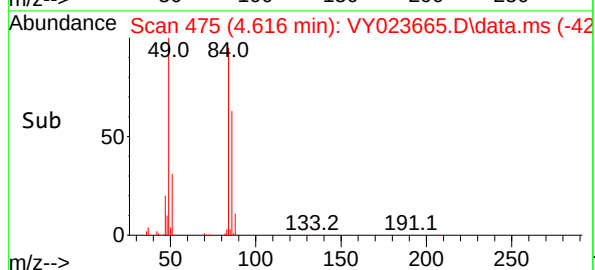
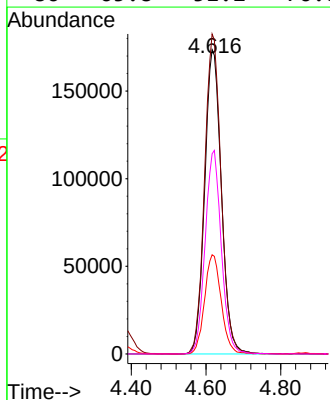
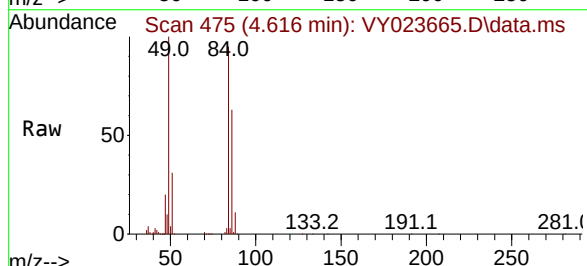
Ion Ratio Lower Upper

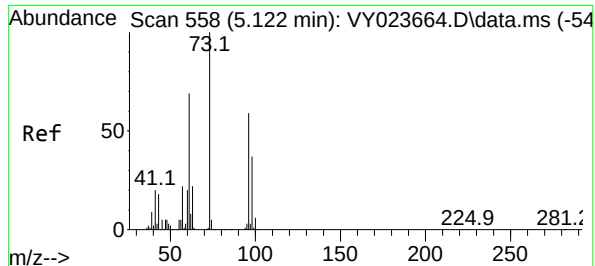
84 100

49 105.2 81.5 122.3

51 32.6 25.5 38.3

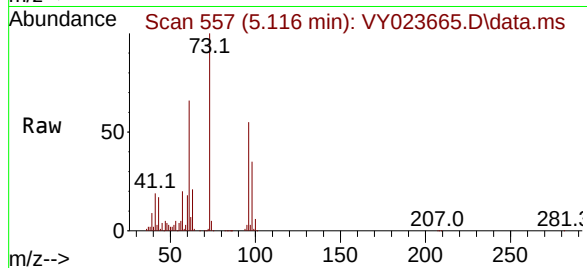
86 65.8 51.2 76.8





#21  
trans-1,2-Dichloroethene  
Concen: 101.211 ug/l  
RT: 5.116 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

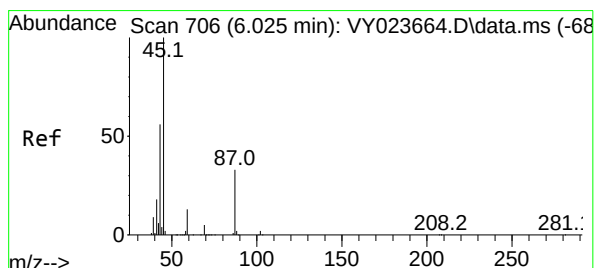
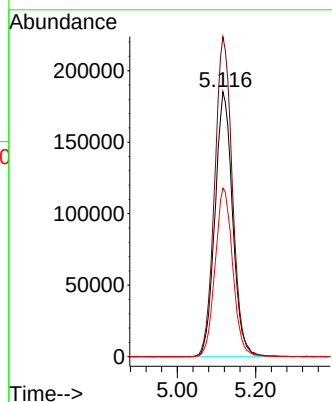
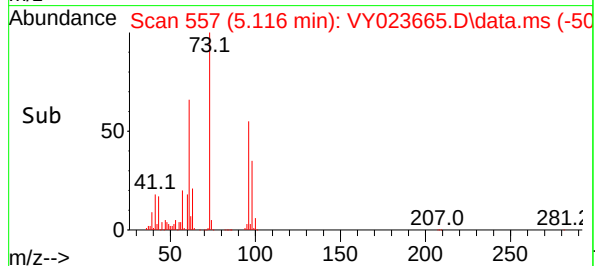
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC100



Tgt Ion: 96 Resp: 576752  
Ion Ratio Lower Upper  
96 100  
61 120.8 93.3 139.9  
98 63.6 50.6 75.8

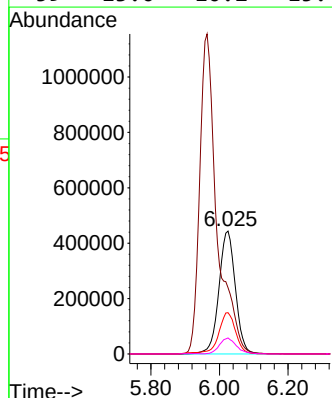
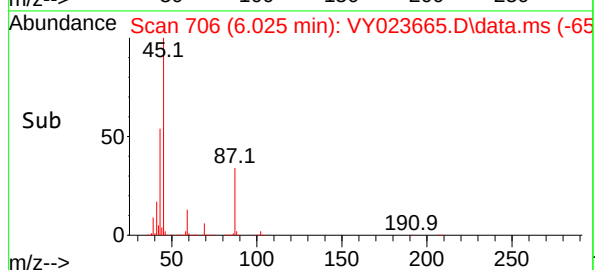
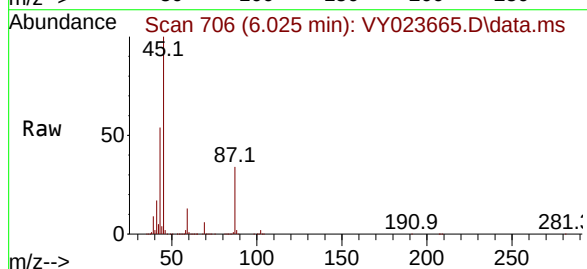
Manual Integrations  
APPROVED

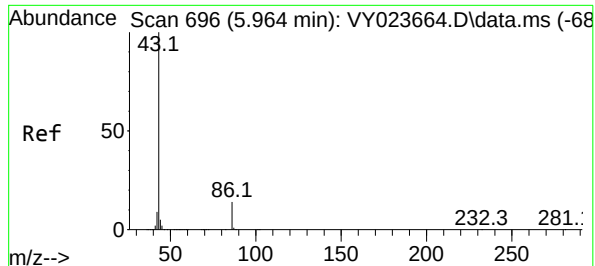
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#22  
Diisopropyl ether  
Concen: 107.734 ug/l  
RT: 6.025 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

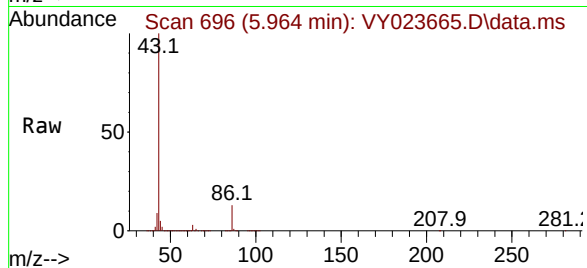
Tgt Ion: 45 Resp: 1476751  
Ion Ratio Lower Upper  
45 100  
43 53.9 44.7 67.1  
87 33.6 27.2 40.8  
59 13.0 10.2 15.4





#23  
Vinyl Acetate  
Concen: 554.021 ug/l  
RT: 5.964 min Scan# 696  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

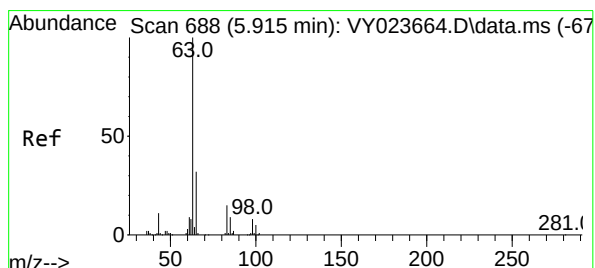
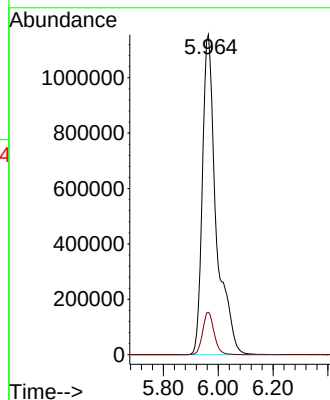
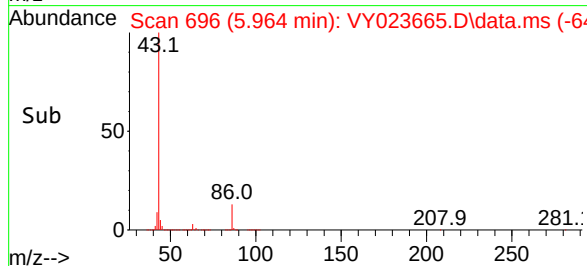
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



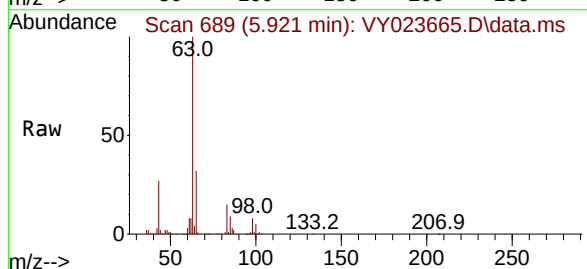
Tgt Ion: 43 Resp: 405257  
Ion Ratio Lower Upper  
43 100  
86 13.3 10.9 16.3

Manual Integrations  
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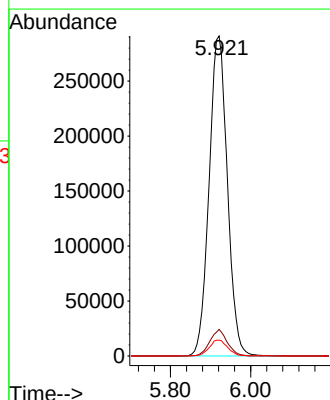
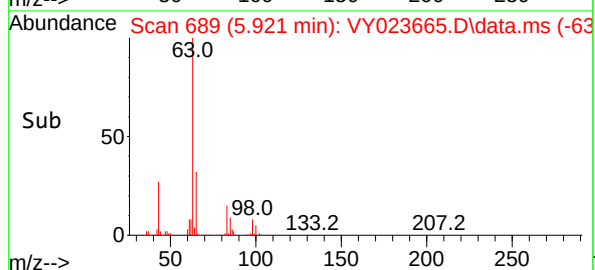
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



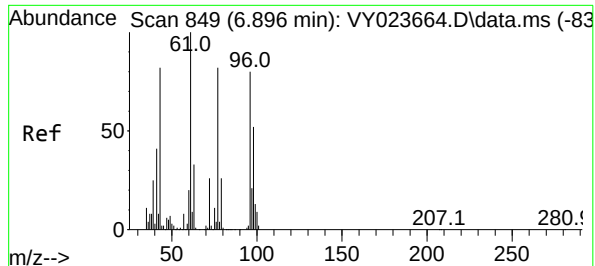
#24  
1,1-Dichloroethane  
Concen: 100.771 ug/l  
RT: 5.921 min Scan# 689  
Delta R.T. 0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



Tgt Ion: 63 Resp: 920205  
Ion Ratio Lower Upper  
63 100  
98 8.3 4.0 11.9  
100 5.0 2.6 7.8







#25

2-Butanone

Concen: 516.946 ug/l

RT: 6.890 min Scan# 849

Delta R.T. -0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 71685

Ion Ratio Lower Upper

43 100

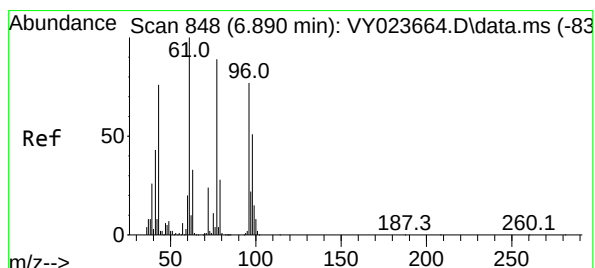
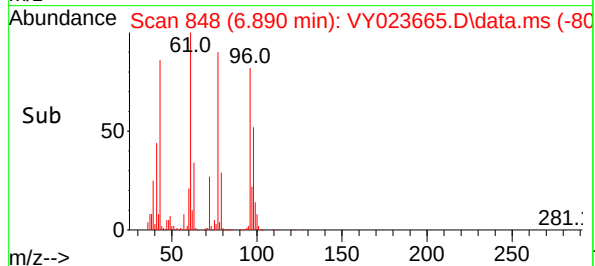
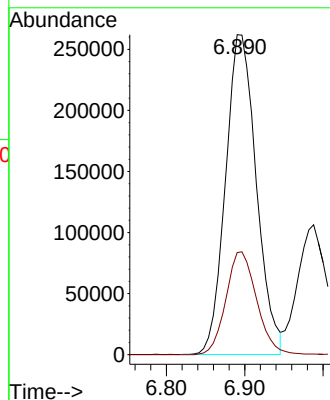
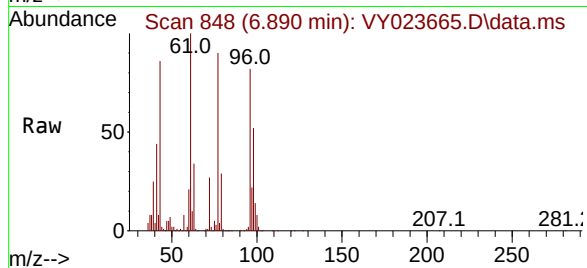
72 31.9 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 99.545 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023665.D

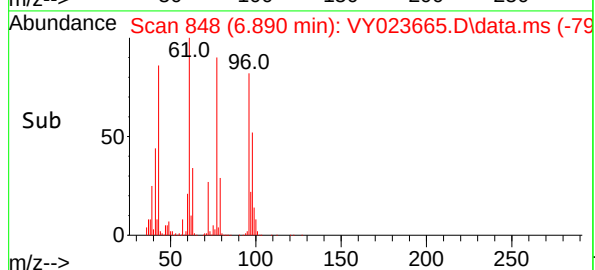
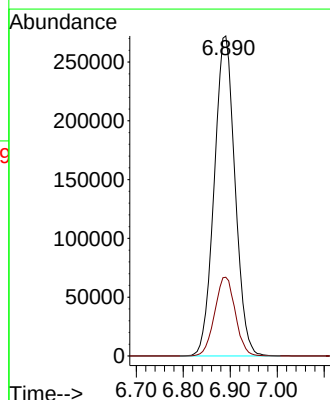
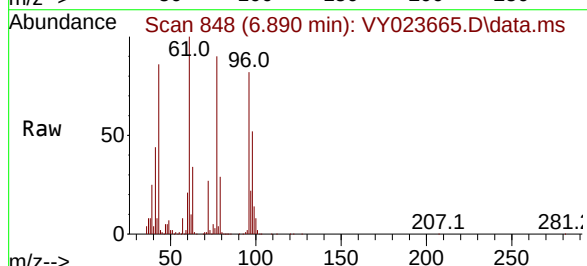
Acq: 04 Nov 2025 11:05

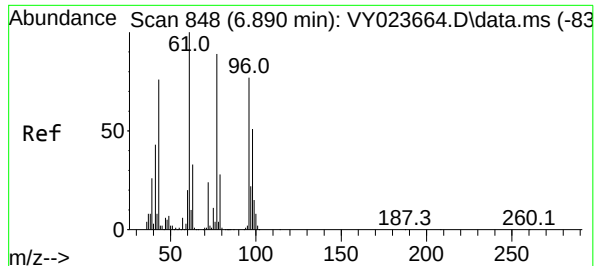
Tgt Ion: 77 Resp: 836165

Ion Ratio Lower Upper

77 100

97 24.4 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 104.123 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 67765

Ion Ratio Lower Upper

96 100

61 127.0 0.0 255.0

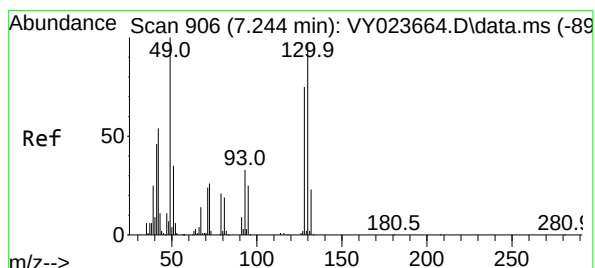
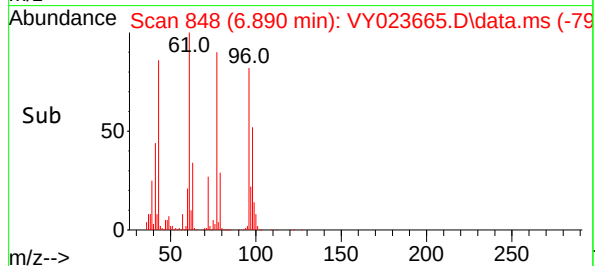
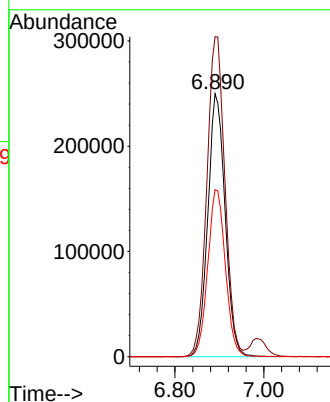
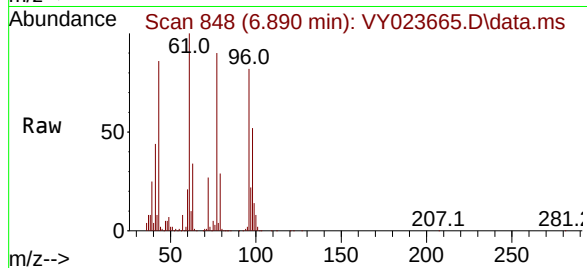
98 64.7 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 100.569 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

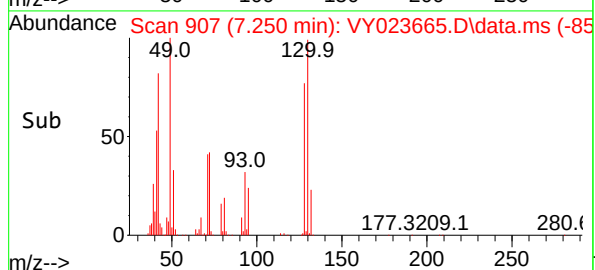
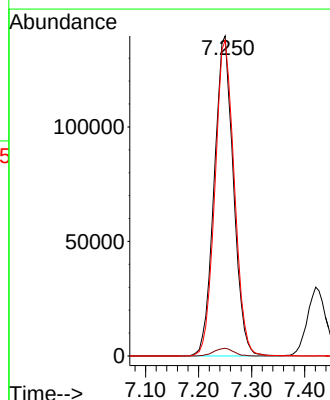
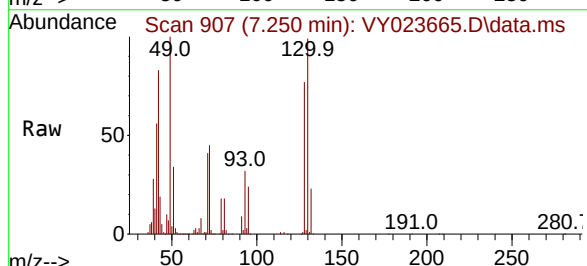
Tgt Ion: 49 Resp: 351637

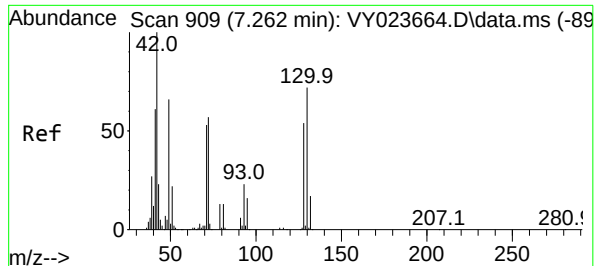
Ion Ratio Lower Upper

49 100

129 2.5 0.0 5.0

130 99.3 80.1 120.1





#29

Tetrahydrofuran

Concen: 551.338 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 407174

Ion Ratio Lower Upper

42 100

72 52.9 43.4 65.2

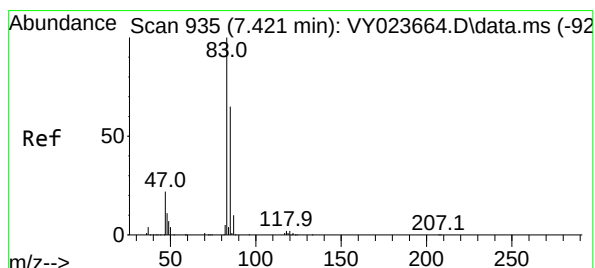
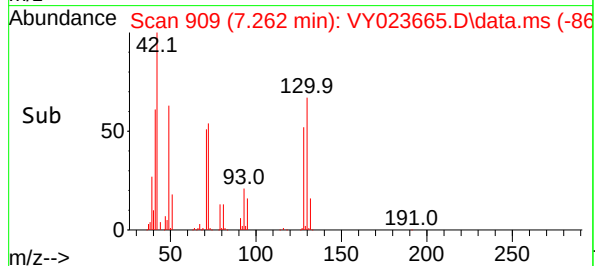
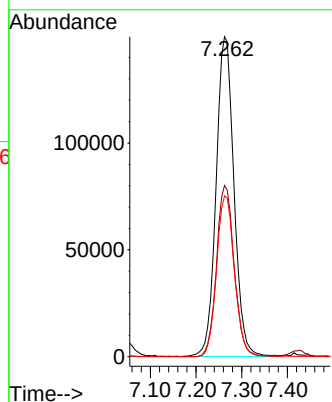
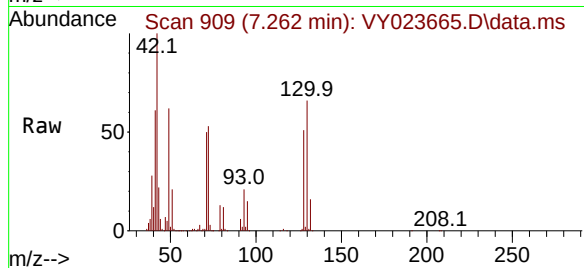
71 50.1 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 99.668 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023665.D

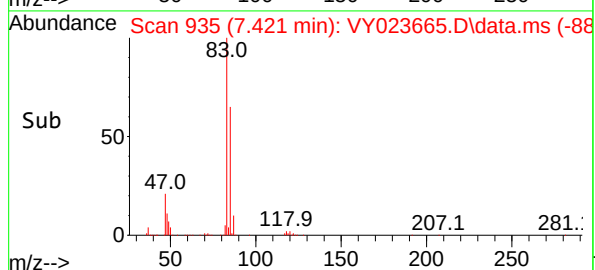
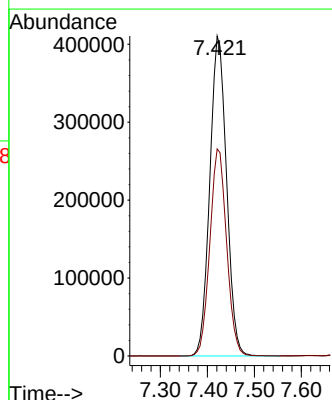
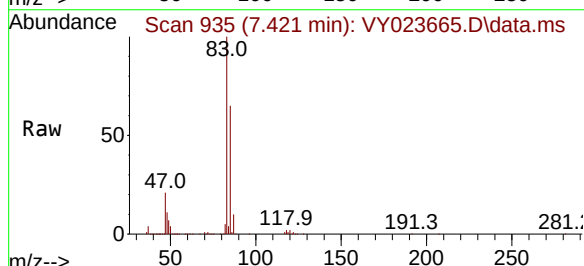
Acq: 04 Nov 2025 11:05

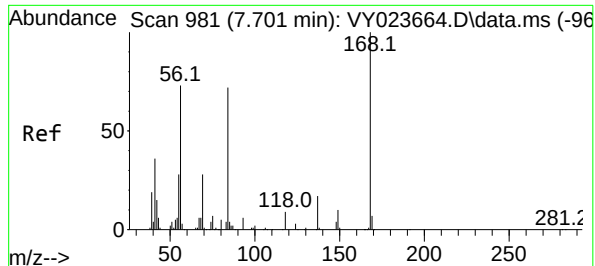
Tgt Ion: 83 Resp: 1015475

Ion Ratio Lower Upper

83 100

85 64.7 52.1 78.1





#31

Cyclohexane

Concen: 98.820 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 78586

Ion Ratio Lower Upper

56 100

69 34.4 30.5 45.7

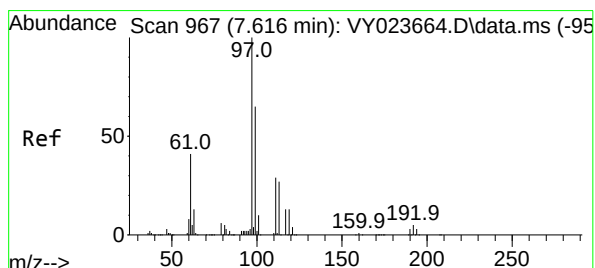
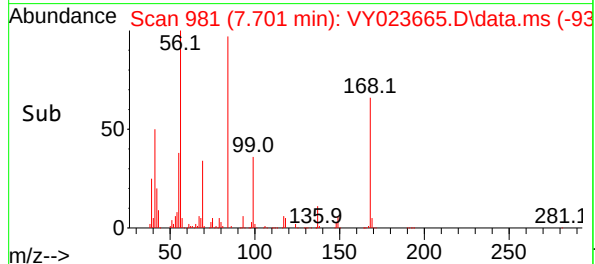
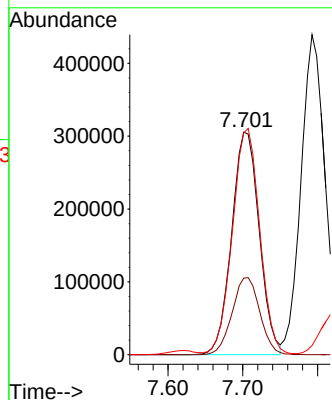
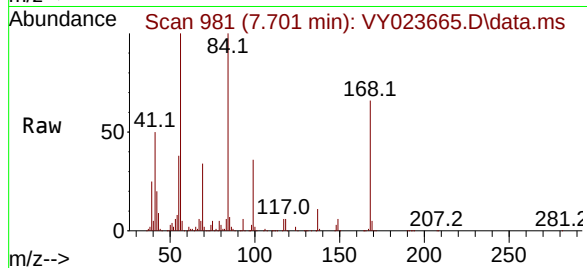
84 97.8 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 99.760 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

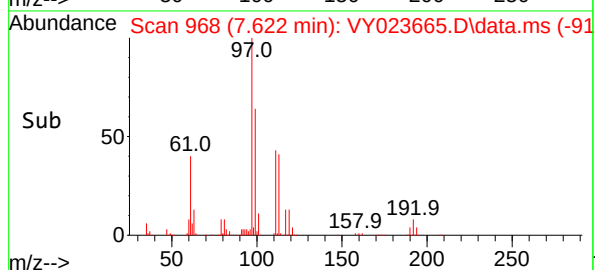
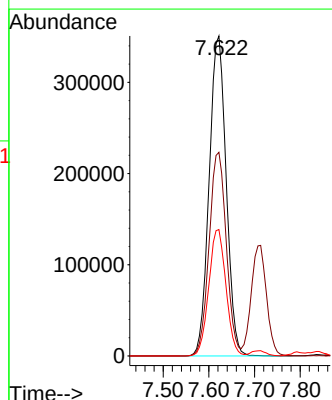
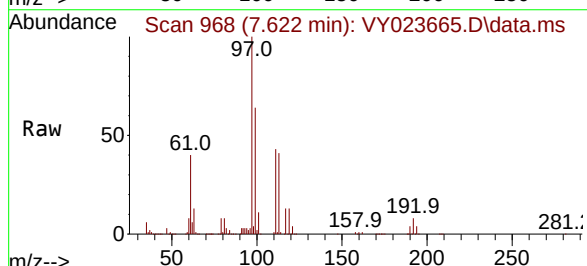
Tgt Ion: 97 Resp: 908433

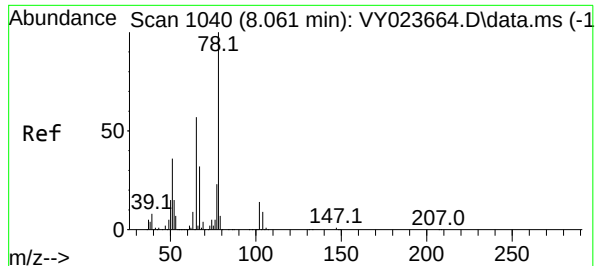
Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

61 39.8 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 99.661 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 48088

Ion Ratio Lower Upper

65 100

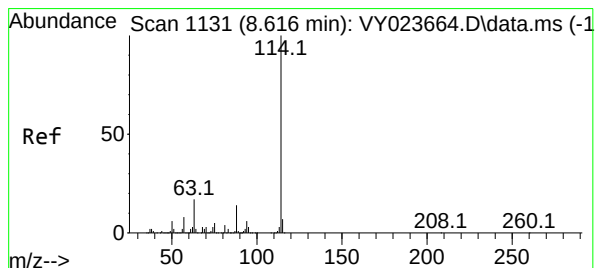
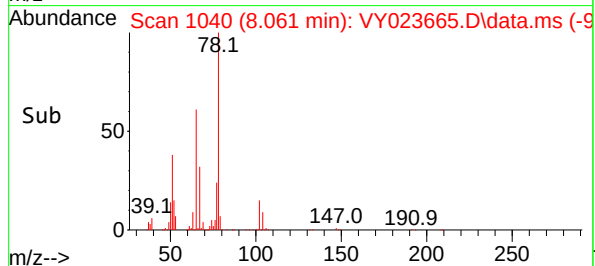
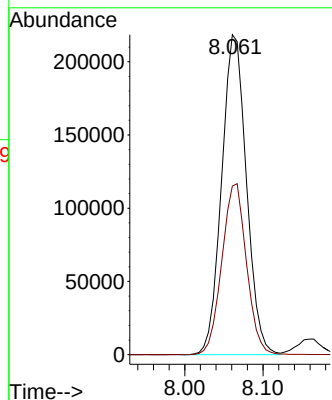
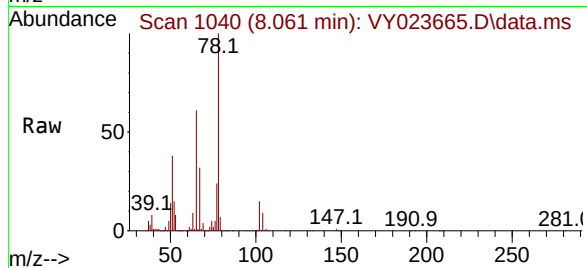
67 53.1 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

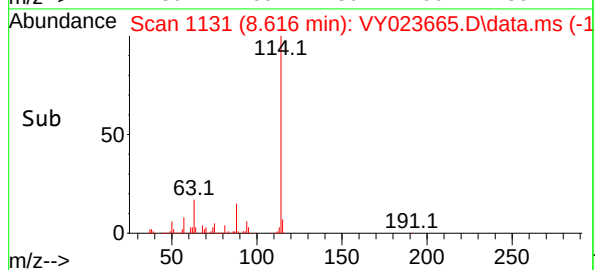
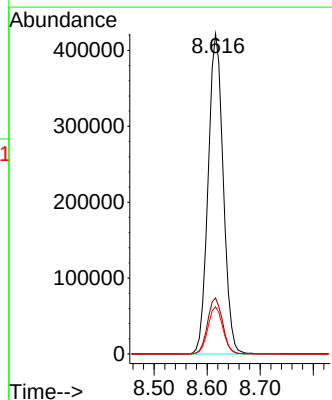
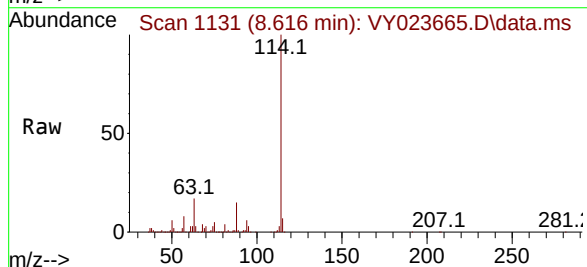
Tgt Ion:114 Resp: 831963

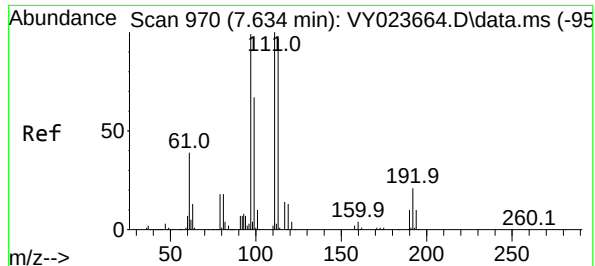
Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.8

88 14.8 0.0 29.0





#35

Dibromofluoromethane

Concen: 101.812 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 52934

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

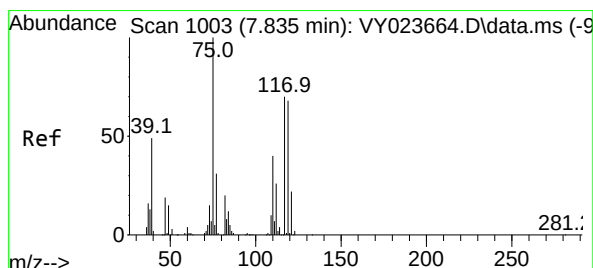
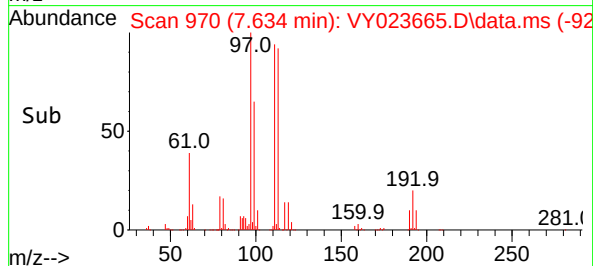
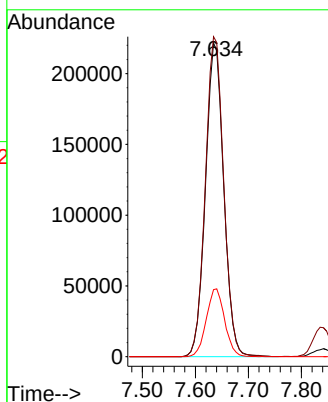
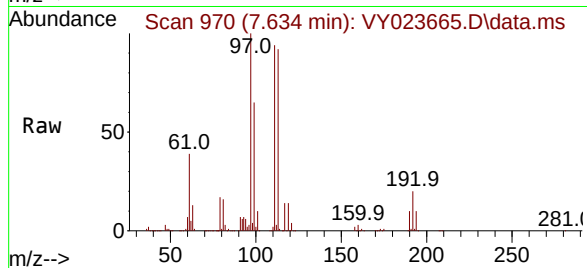
192 21.7 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 101.168 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

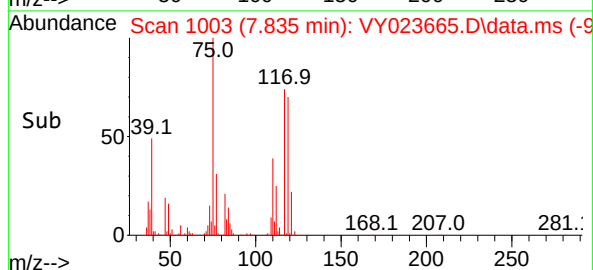
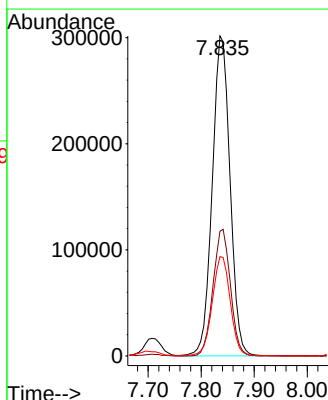
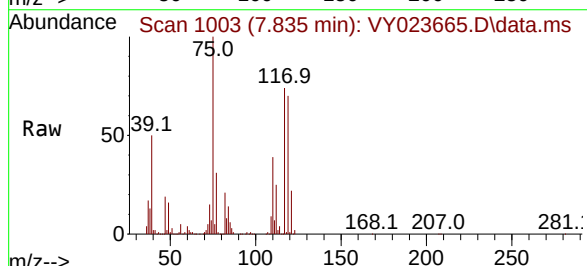
Tgt Ion: 75 Resp: 702866

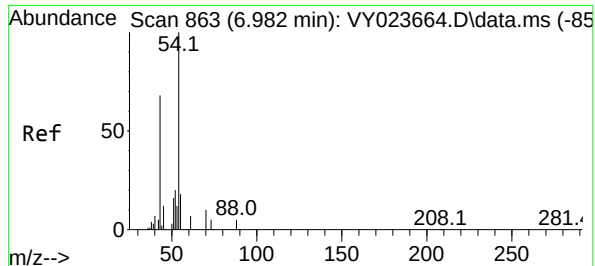
Ion Ratio Lower Upper

75 100

110 38.8 19.7 59.0

77 31.5 25.2 37.8





#37

Ethyl Acetate

Concen: 106.984 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023665.D

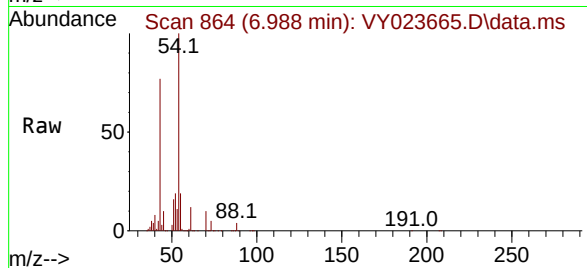
Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100



Tgt Ion: 43 Resp: 28773

Ion Ratio Lower Upper

43 100

61 15.2 12.4 18.6

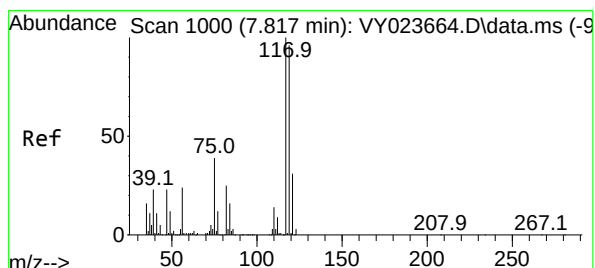
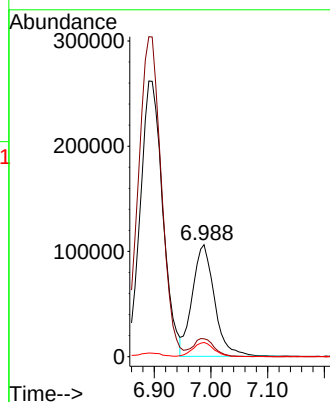
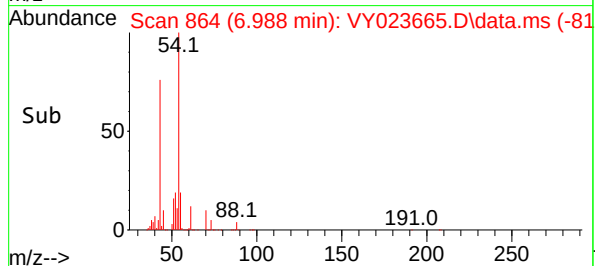
70 12.1 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 100.329 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

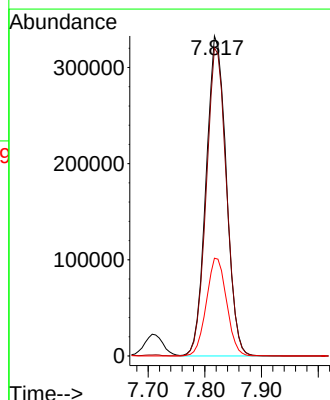
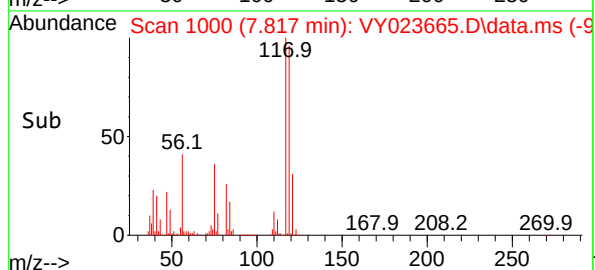
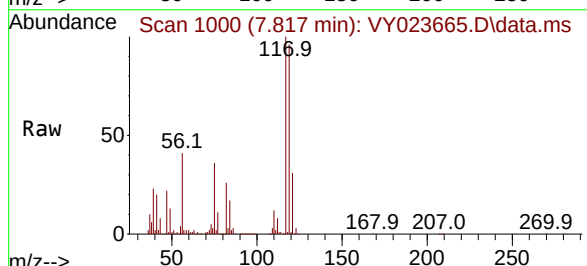
Tgt Ion:117 Resp: 821264

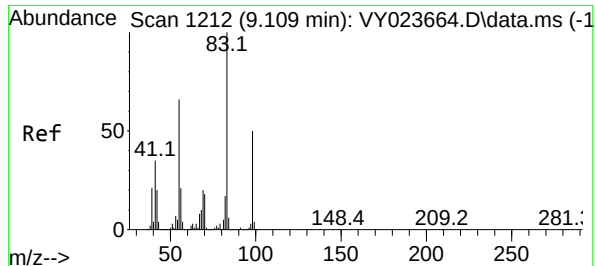
Ion Ratio Lower Upper

117 100

119 96.2 76.3 114.5

121 30.5 24.8 37.2





#39

Methylcyclohexane

Concen: 106.639 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 946648

Ion Ratio Lower Upper

83 100

55 67.1 52.6 78.8

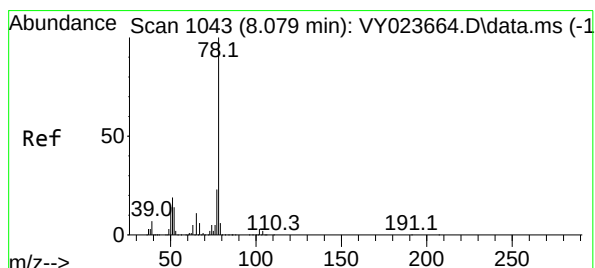
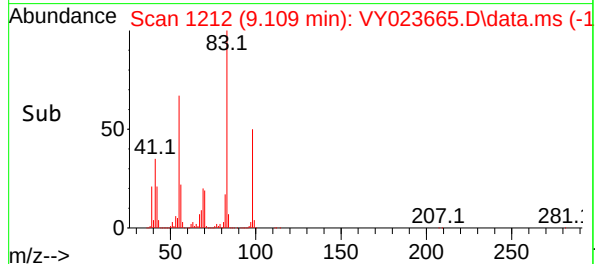
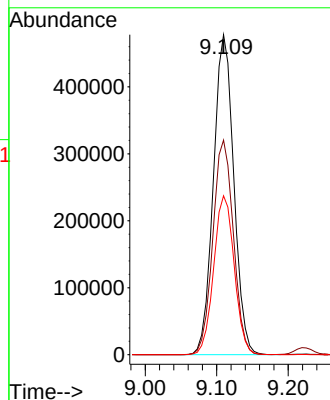
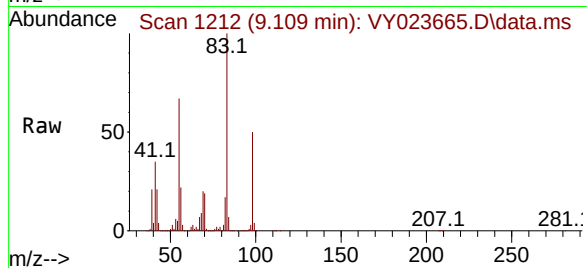
98 49.7 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 102.208 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023665.D

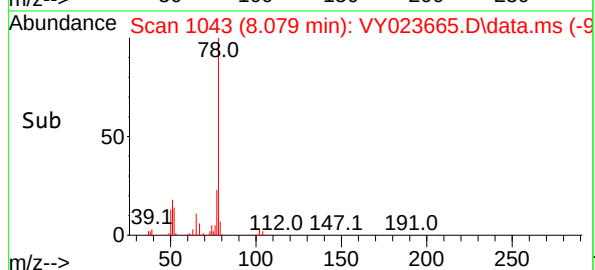
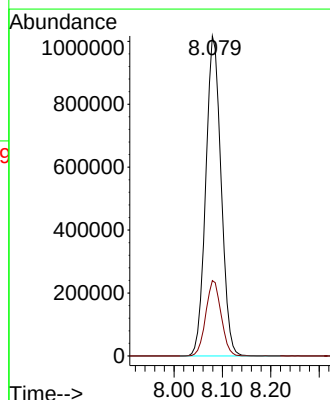
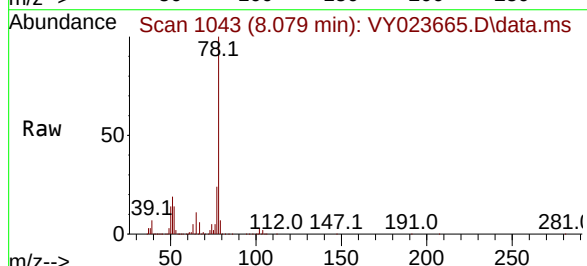
Acq: 04 Nov 2025 11:05

Tgt Ion: 78 Resp: 2238265

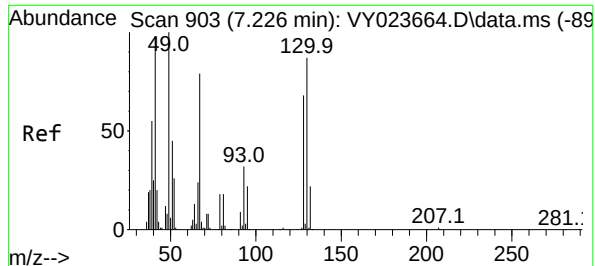
Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2

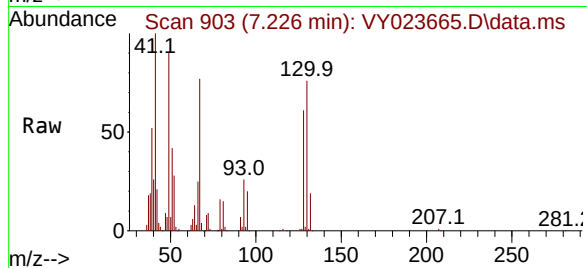






#41  
Methacrylonitrile  
Concen: 113.249 ug/l  
RT: 7.226 min Scan# 903  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

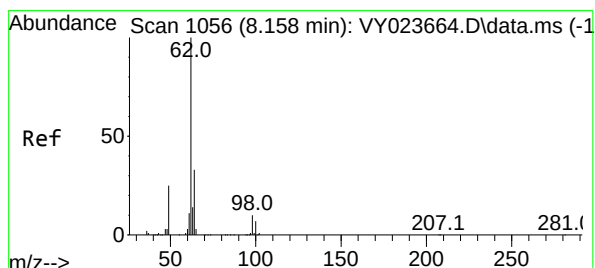
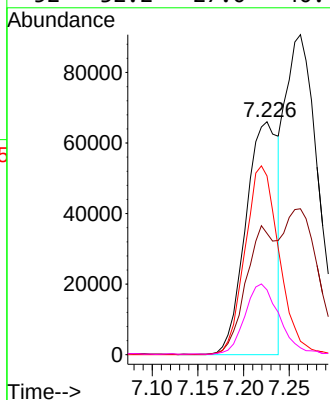
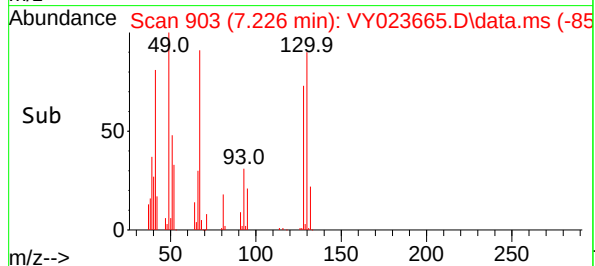
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



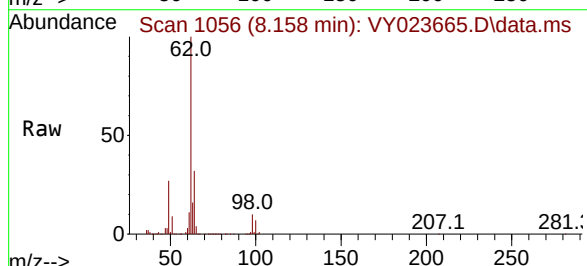
Tgt Ion: 41 Resp: 162465  
Ion Ratio Lower Upper  
41 100  
39 45.7 38.6 57.8  
67 86.1 71.3 106.9  
52 32.2 27.0 40.4

Manual Integrations  
APPROVED

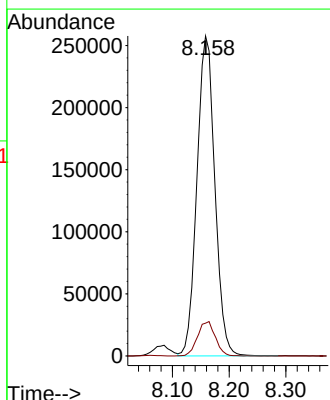
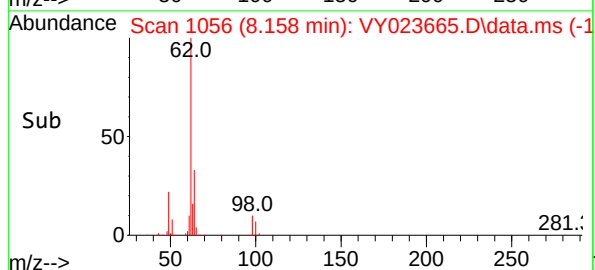
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

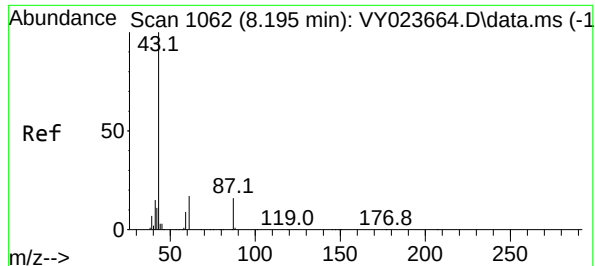


#42  
1,2-Dichloroethane  
Concen: 101.924 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



Tgt Ion: 62 Resp: 564693  
Ion Ratio Lower Upper  
62 100  
98 10.7 0.0 21.0





#43

Isopropyl Acetate

Concen: 110.678 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 55929

Ion Ratio Lower Upper

43 100

61 33.2 18.2 27.2

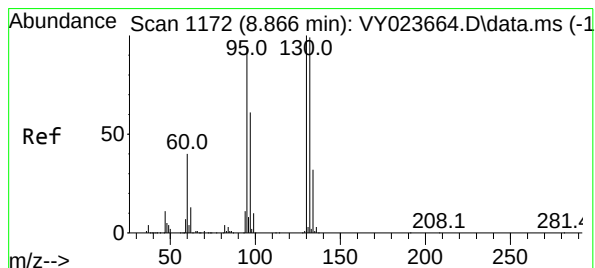
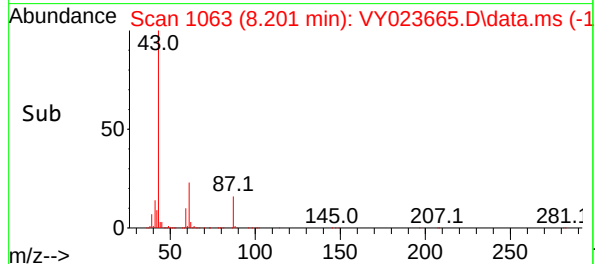
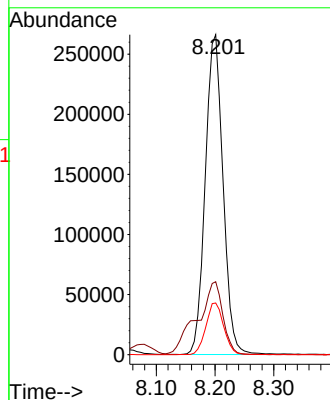
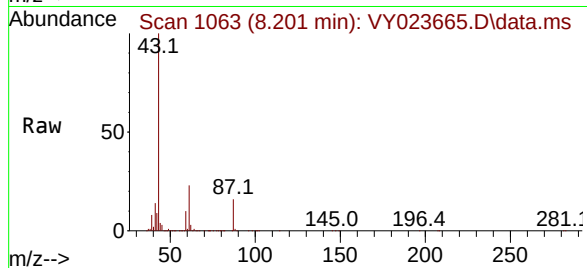
87 16.4 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 99.676 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023665.D

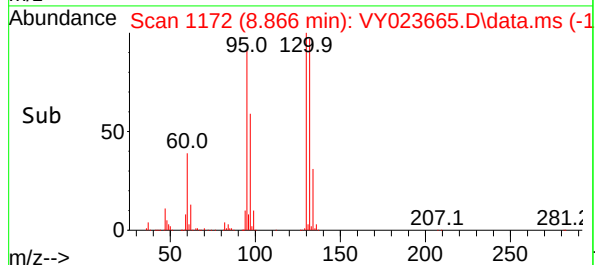
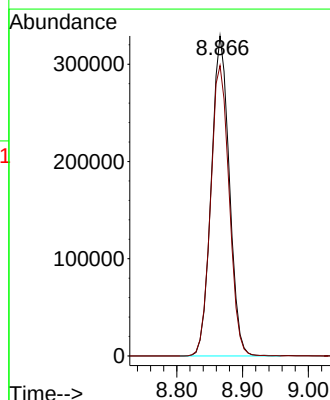
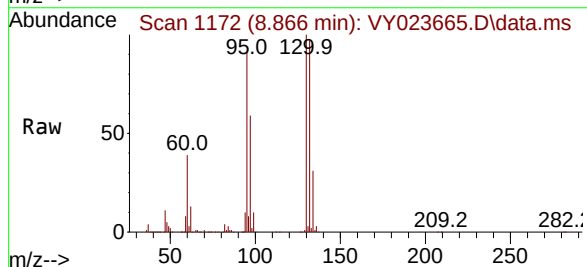
Acq: 04 Nov 2025 11:05

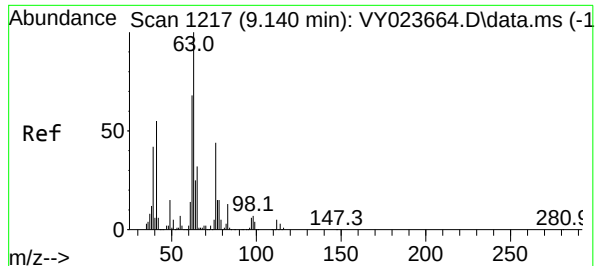
Tgt Ion:130 Resp: 626949

Ion Ratio Lower Upper

130 100

95 90.7 0.0 187.0





#45

1,2-Dichloropropane

Concen: 102.300 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 494430

Ion Ratio Lower Upper

63 100

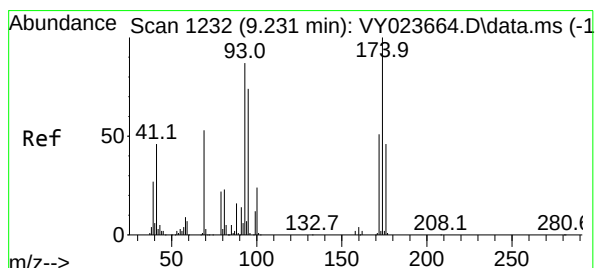
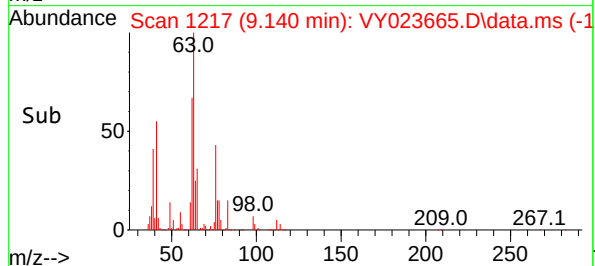
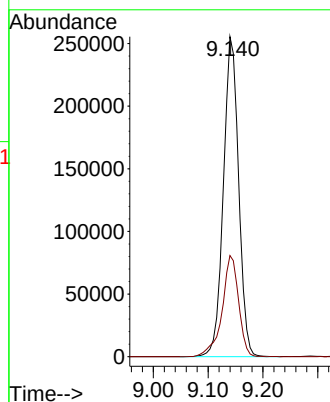
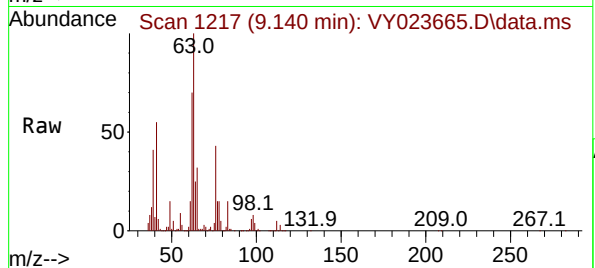
65 31.6 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 103.001 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

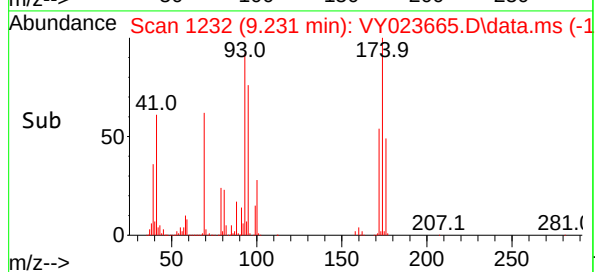
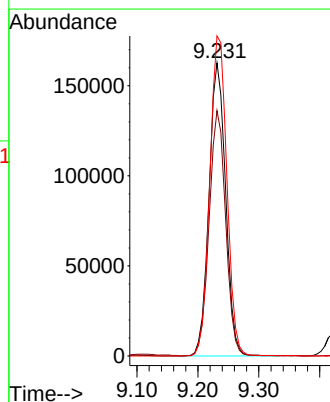
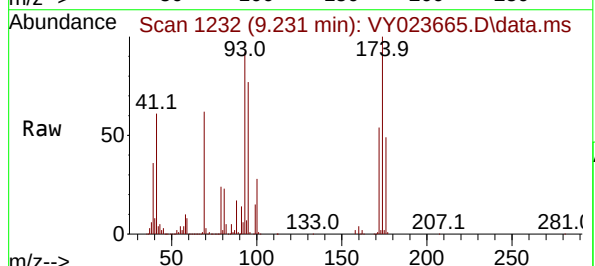
Tgt Ion: 93 Resp: 308450

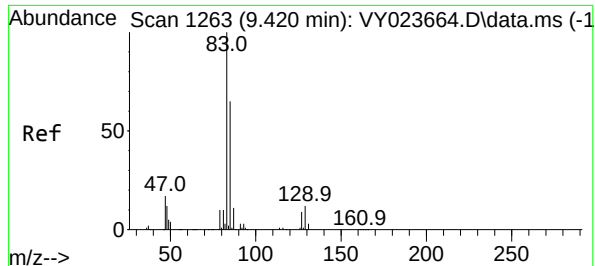
Ion Ratio Lower Upper

93 100

95 83.5 67.4 101.2

174 112.1 89.4 134.0





#47

Bromodichloromethane

Concen: 103.338 ug/l

RT: 9.426 min Scan# 1263

Delta R.T. 0.006 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 78021

Ion Ratio Lower Upper

83 100

85 63.6 52.1 78.1

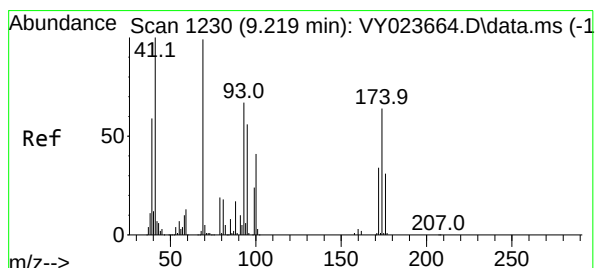
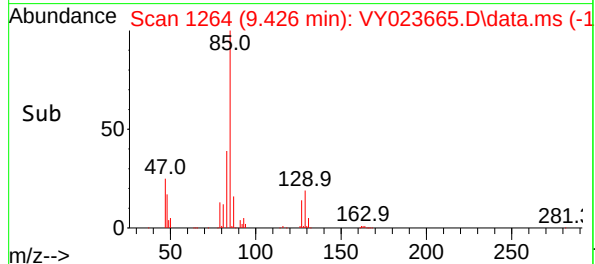
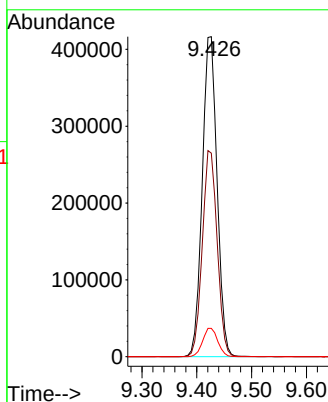
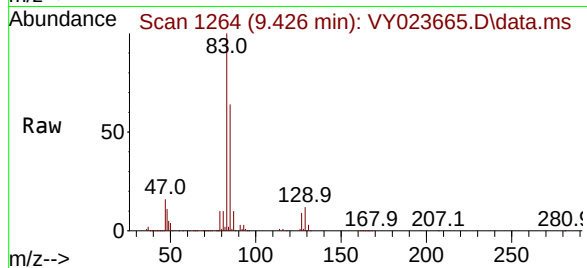
127 8.9 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 114.688 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

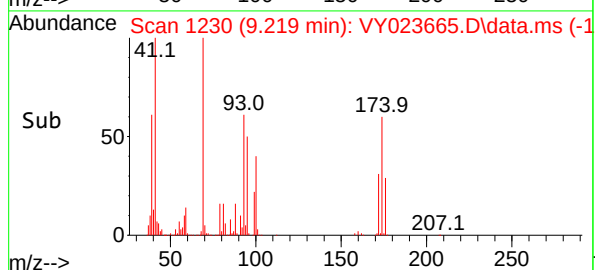
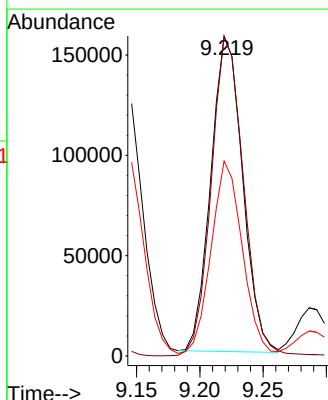
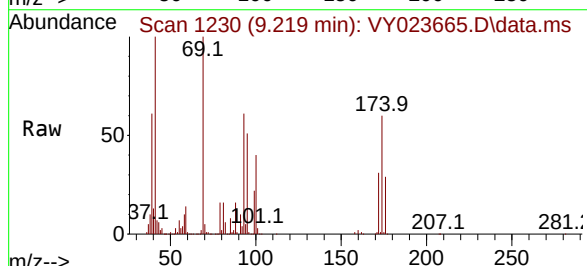
Tgt Ion: 41 Resp: 273819

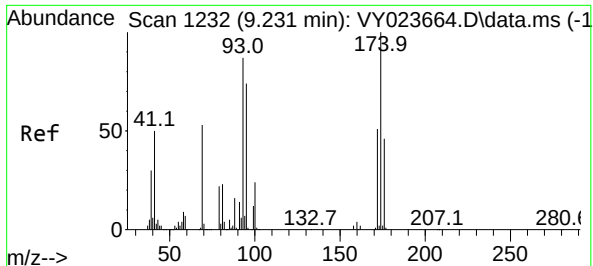
Ion Ratio Lower Upper

41 100

69 103.1 80.2 120.2

39 59.9 47.4 71.0





#49

1,4-Dioxane

Concen: 2162.837 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 66284

Ion Ratio Lower Upper

88 100

43 29.9 22.0 33.0

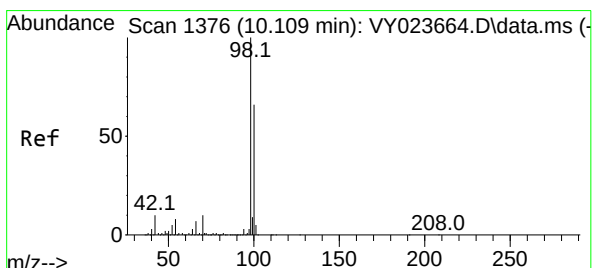
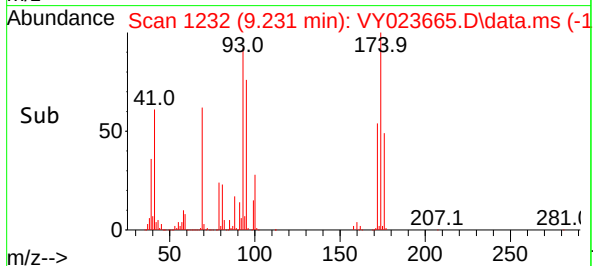
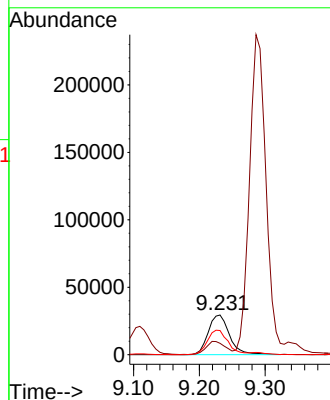
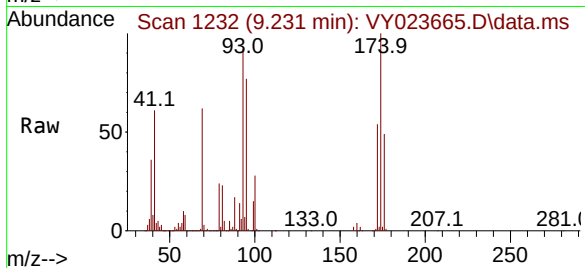
58 60.3 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 105.160 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023665.D

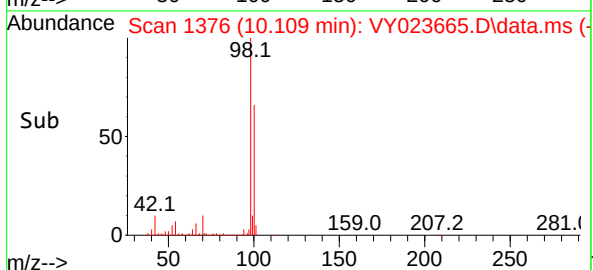
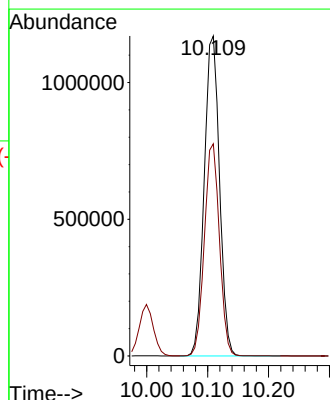
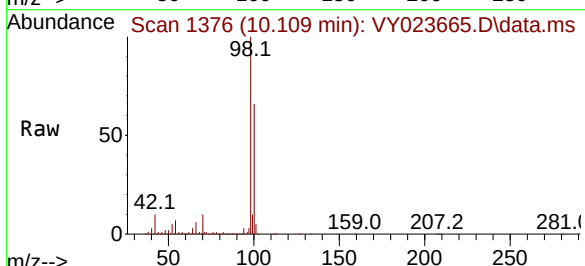
Acq: 04 Nov 2025 11:05

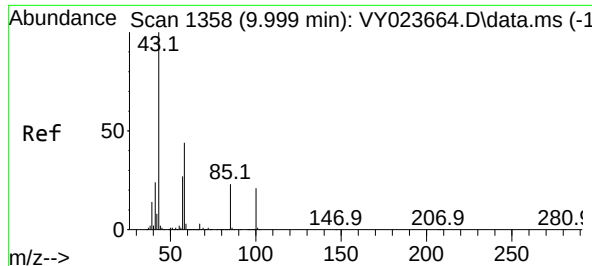
Tgt Ion: 98 Resp: 2036678

Ion Ratio Lower Upper

98 100

100 65.5 52.7 79.1





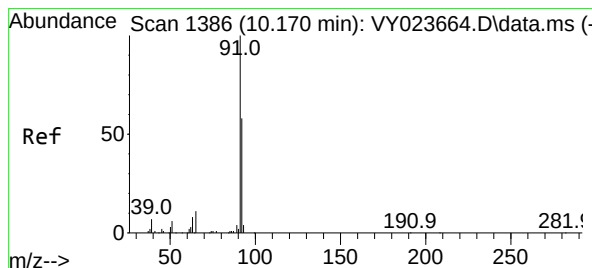
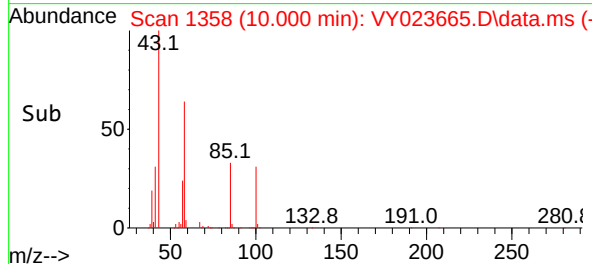
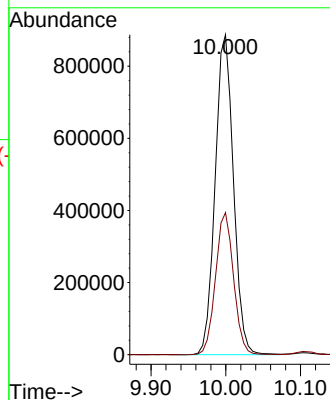
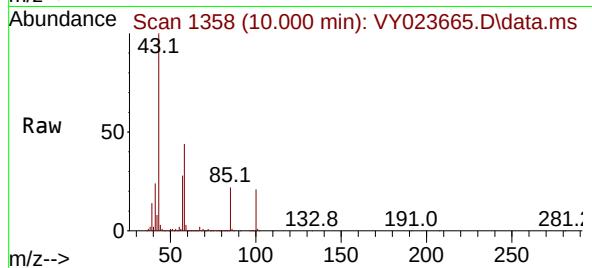
#51  
4-Methyl-2-Pentanone  
Concen: 561.674 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion: 43 Resp: 150944  
Ion Ratio Lower Upper  
43 100  
58 43.9 34.8 52.2

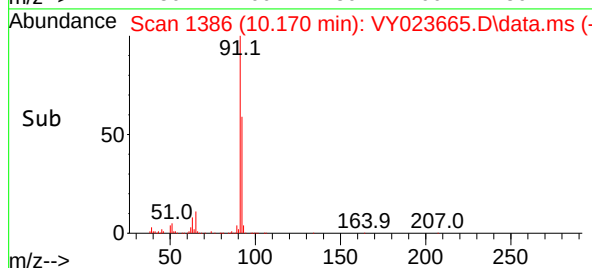
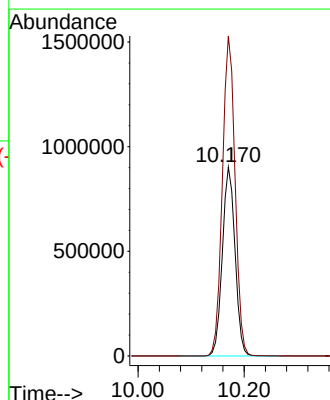
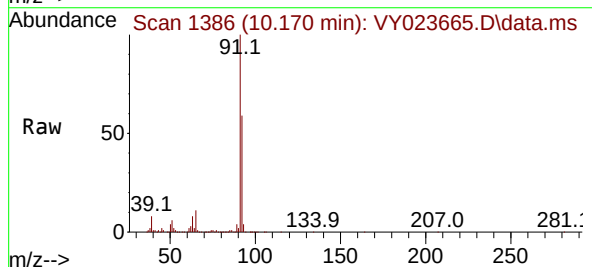
Manual Integrations  
APPROVED

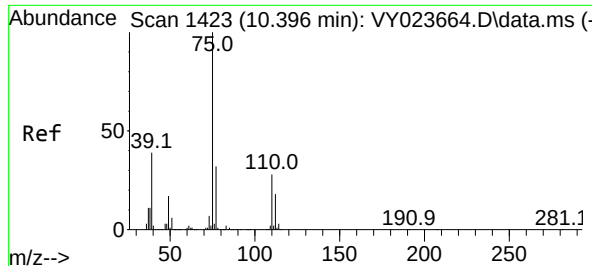
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 106.868 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion: 92 Resp: 1494139  
Ion Ratio Lower Upper  
92 100  
91 169.9 137.8 206.8





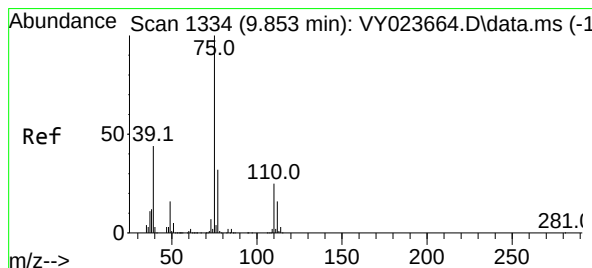
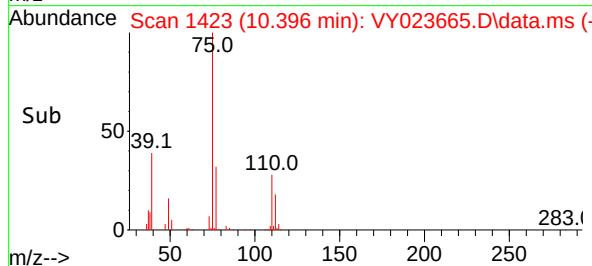
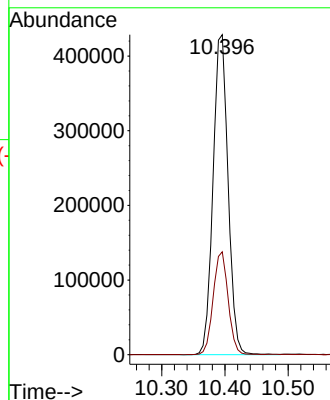
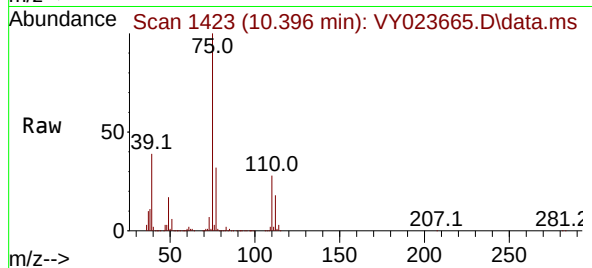
#53  
t-1,3-Dichloropropene  
Concen: 110.869 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion: 75 Resp: 708290  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.6 38.4

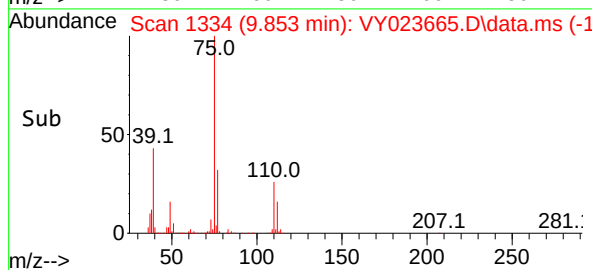
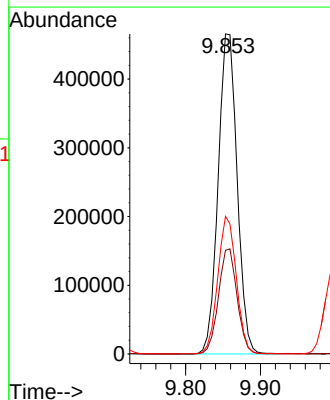
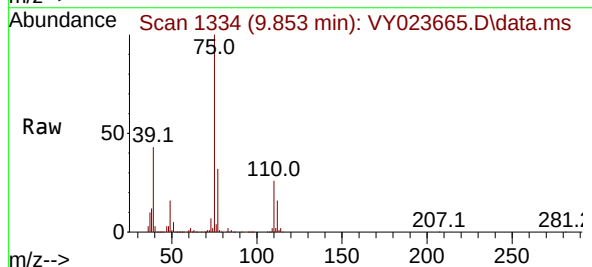
Manual Integrations  
APPROVED

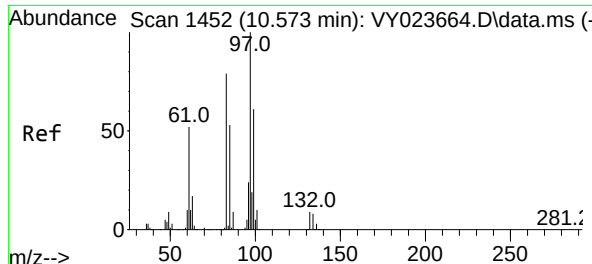
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#54  
cis-1,3-Dichloropropene  
Concen: 107.667 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

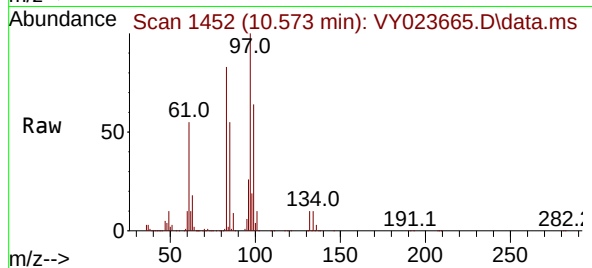
Tgt Ion: 75 Resp: 824093  
Ion Ratio Lower Upper  
75 100  
77 32.4 25.7 38.5  
39 42.9 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 103.695 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

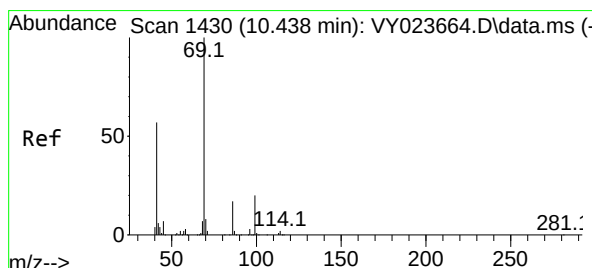
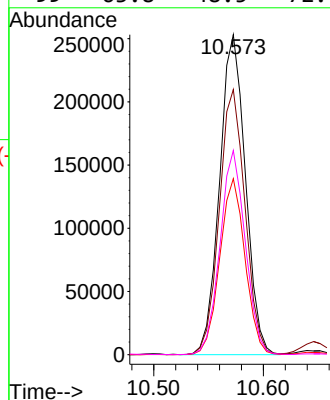
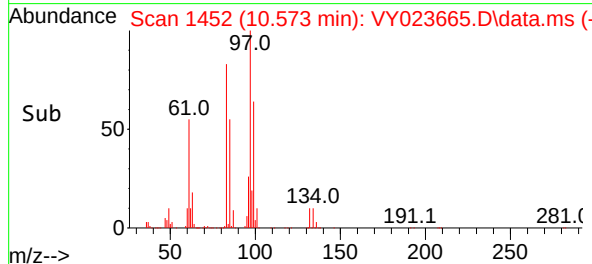
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion: 97 Resp: 41498  
Ion Ratio Lower Upper  
97 100  
83 82.8 63.3 94.9  
85 55.0 42.4 63.6  
99 63.8 48.5 72.7

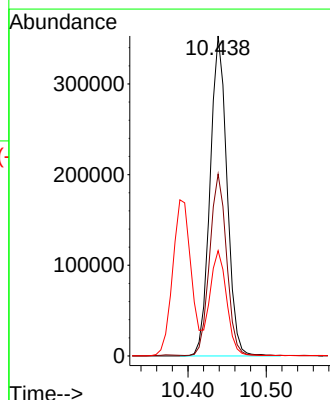
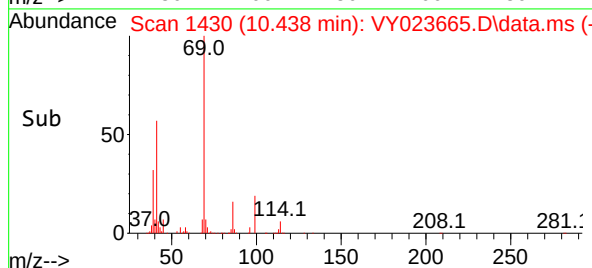
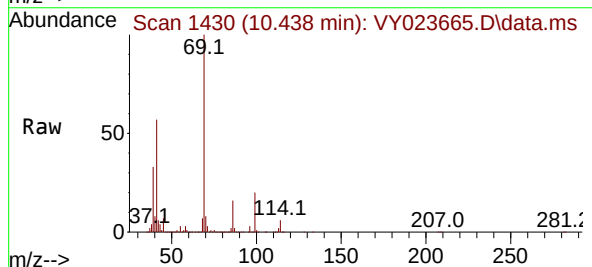
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

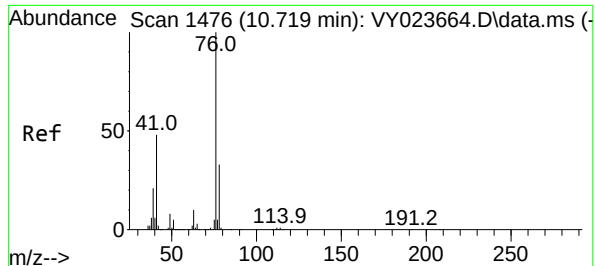


#56  
Ethyl methacrylate  
Concen: 120.046 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion: 69 Resp: 529329  
Ion Ratio Lower Upper  
69 100  
41 56.7 45.0 67.4  
39 33.0 25.1 37.7







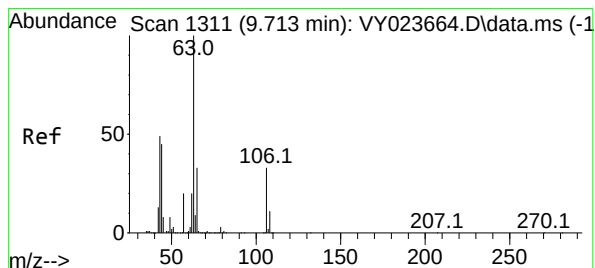
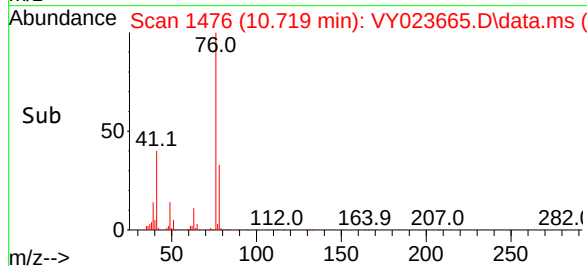
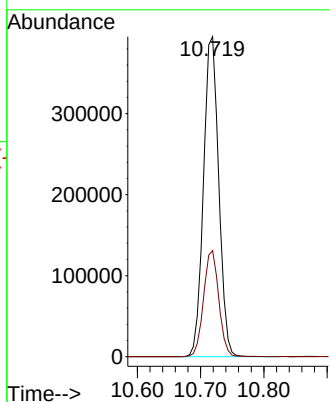
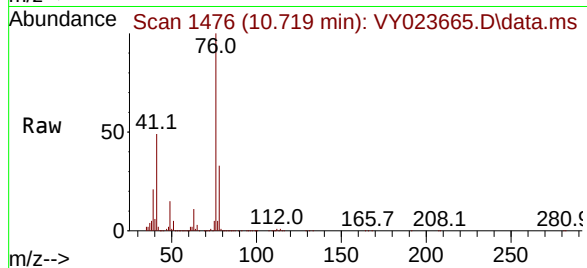
#57  
1,3-Dichloropropane  
Concen: 104.582 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion: 76 Resp: 663870  
Ion Ratio Lower Upper  
76 100  
78 33.0 26.0 39.0

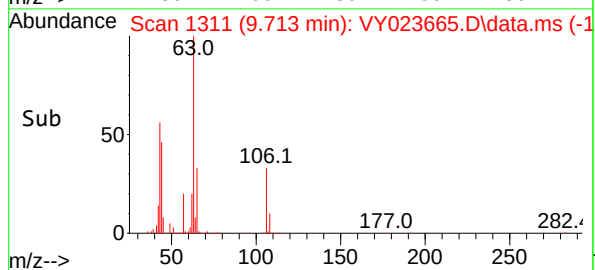
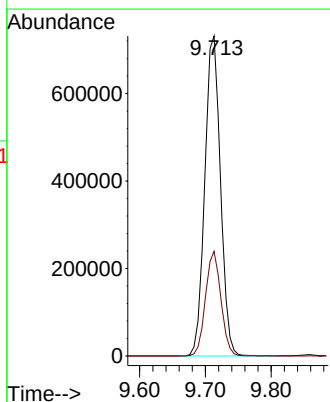
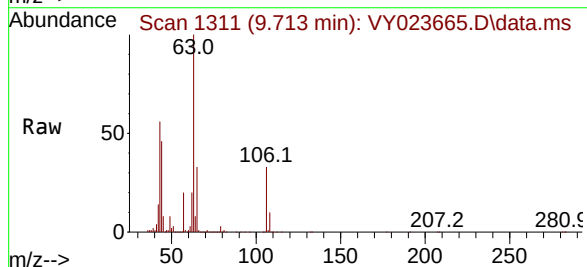
Manual Integrations  
APPROVED

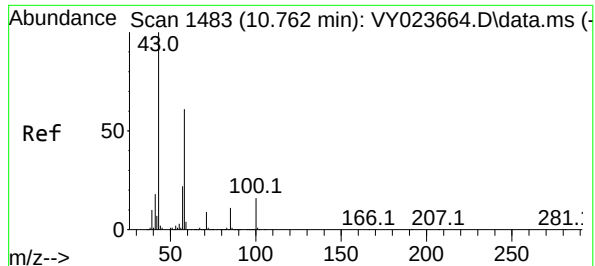
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 599.849 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

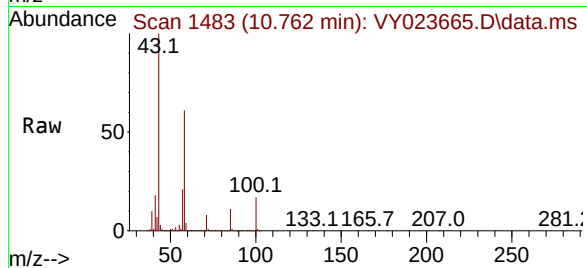
Tgt Ion: 63 Resp: 1213712  
Ion Ratio Lower Upper  
63 100  
106 32.2 26.2 39.2





#59  
2-Hexanone  
Concen: 560.896 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

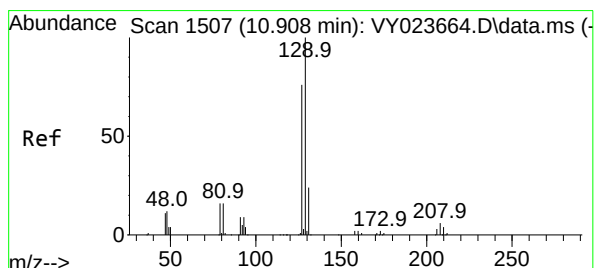
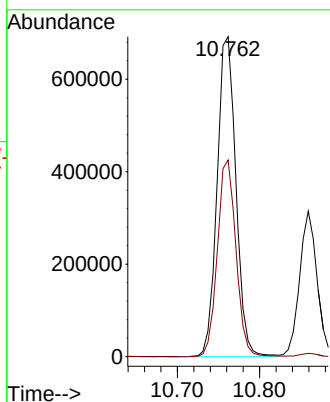
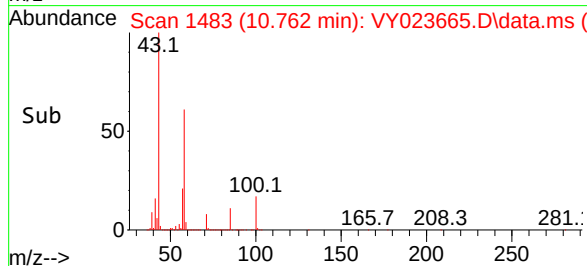
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC100



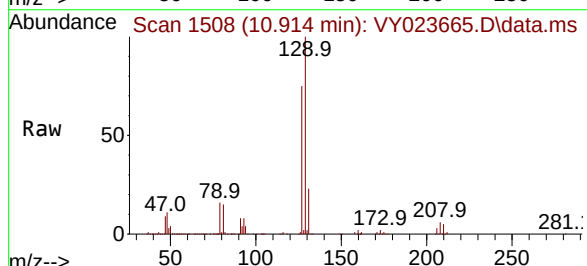
Tgt Ion: 43 Resp: 1099720  
Ion Ratio Lower Upper  
43 100  
58 60.8 30.2 90.6

Manual Integrations  
APPROVED

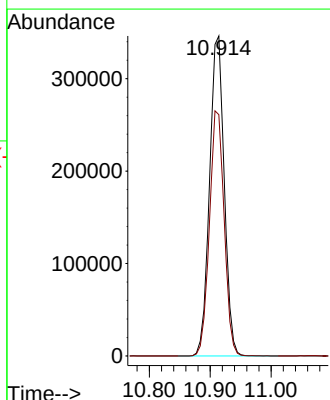
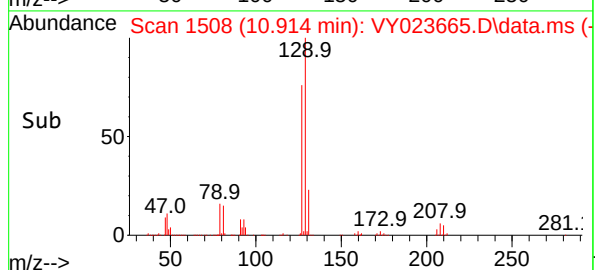
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

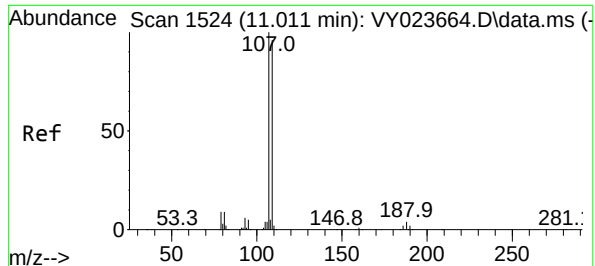


#60  
Dibromochloromethane  
Concen: 105.098 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



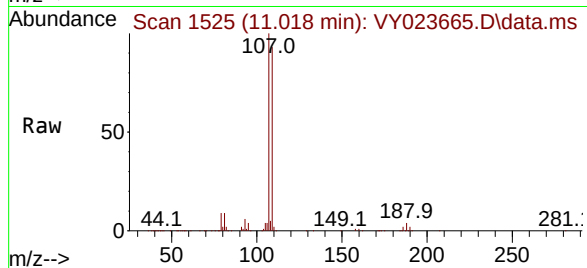
Tgt Ion:129 Resp: 577908  
Ion Ratio Lower Upper  
129 100  
127 76.9 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 105.457 ug/l  
RT: 11.018 min Scan# 1524  
Delta R.T. 0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

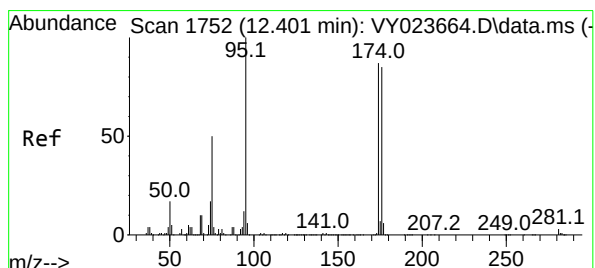
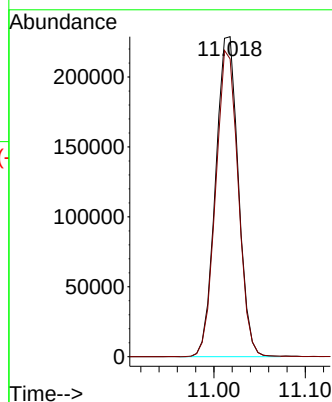
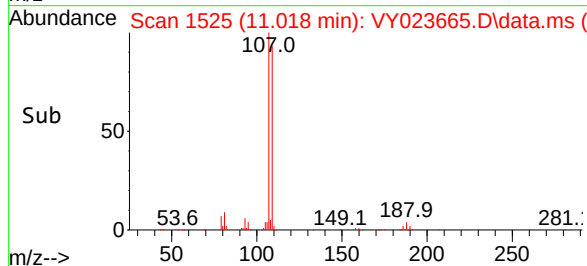
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:107 Resp: 396070  
Ion Ratio Lower Upper  
107 100  
109 94.4 76.2 114.4

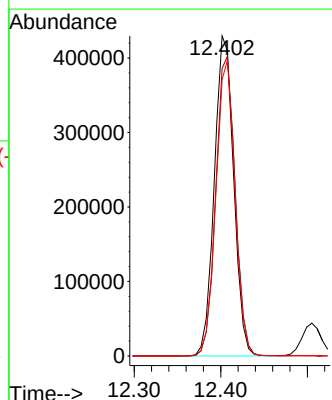
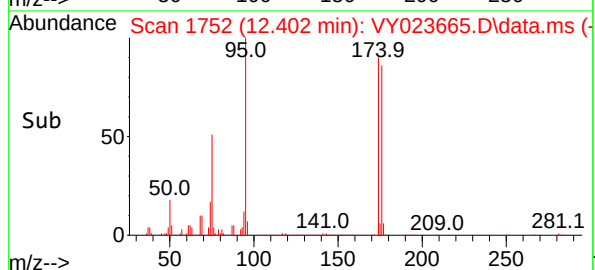
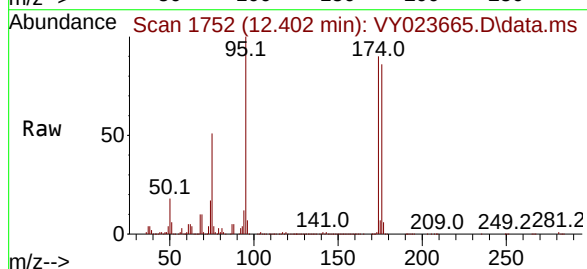
Manual Integrations  
APPROVED

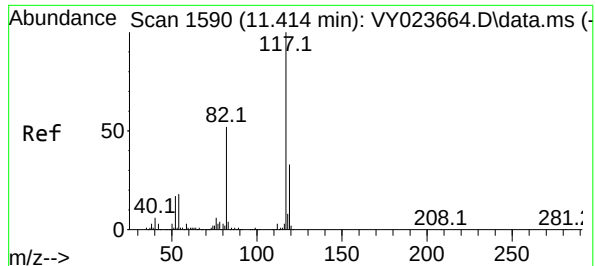
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 106.305 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

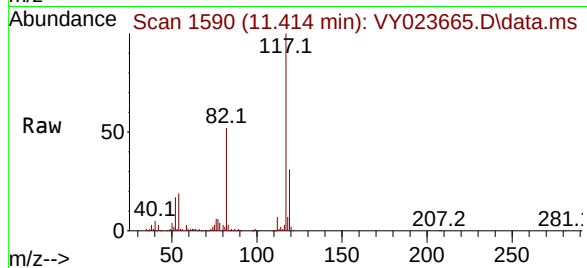
Tgt Ion: 95 Resp: 665813  
Ion Ratio Lower Upper  
95 100  
174 93.7 0.0 184.8  
176 91.6 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

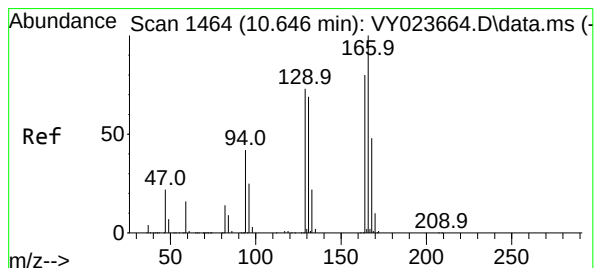
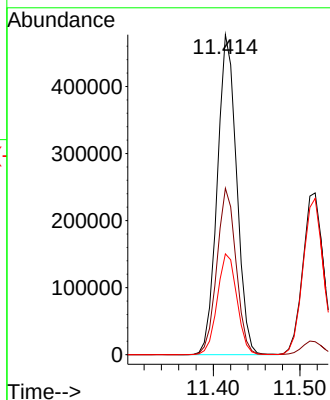
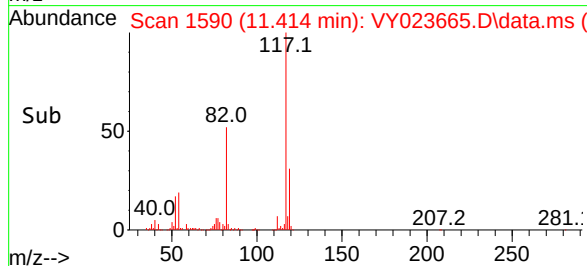
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:117 Resp: 740642  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.2 61.8  
119 31.5 26.2 39.2

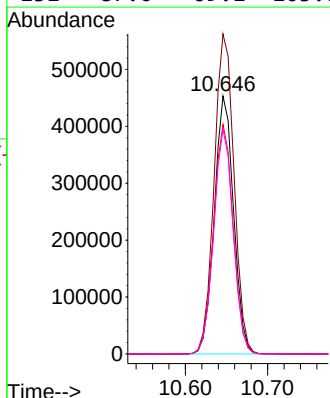
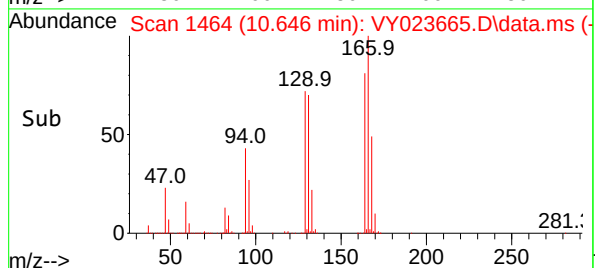
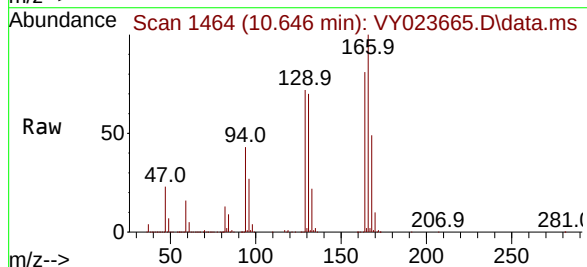
Manual Integrations  
APPROVED

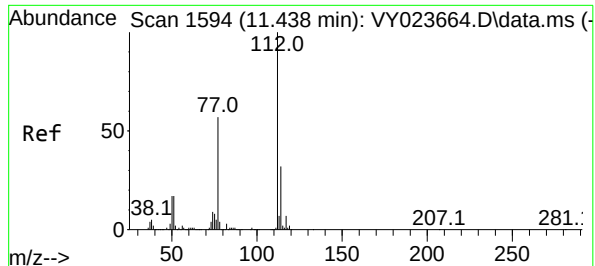
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#64  
Tetrachloroethene  
Concen: 96.137 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

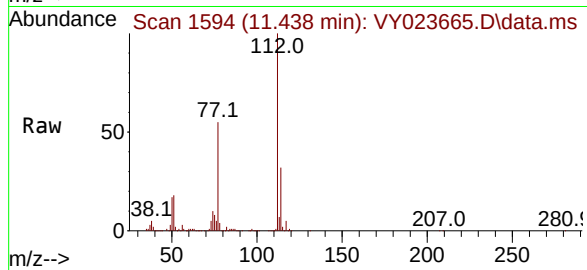
Tgt Ion:164 Resp: 741118  
Ion Ratio Lower Upper  
164 100  
166 124.0 99.5 149.3  
129 88.9 72.3 108.5  
131 87.0 69.1 103.7





#65  
Chlorobenzene  
Concen: 101.655 ug/l  
RT: 11.438 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

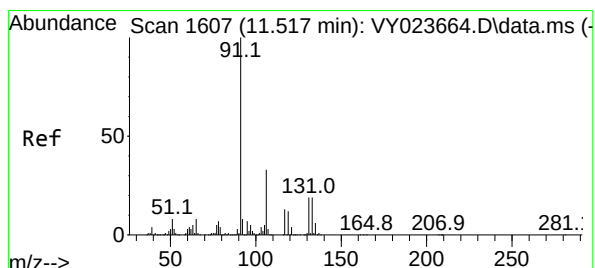
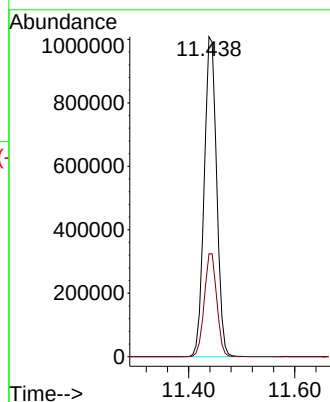
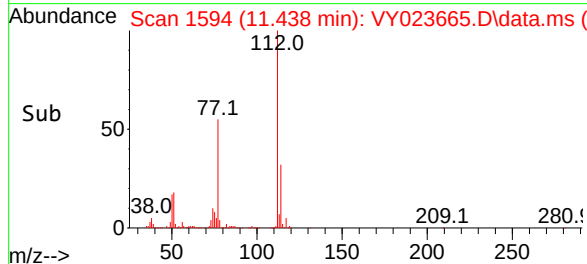
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



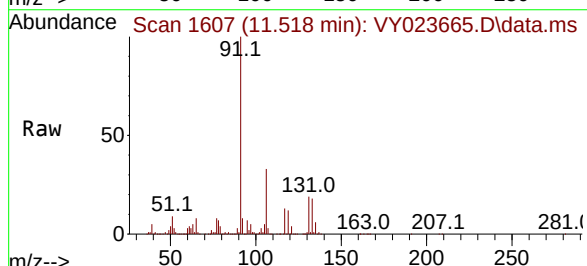
Tgt Ion:112 Resp: 163905  
Ion Ratio Lower Upper  
112 100  
114 32.1 25.8 38.6

Manual Integrations  
APPROVED

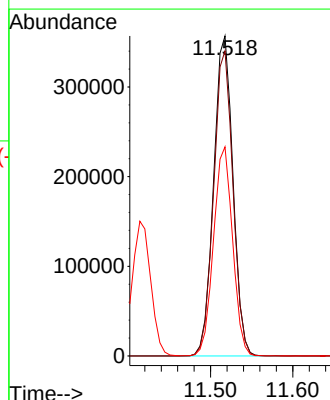
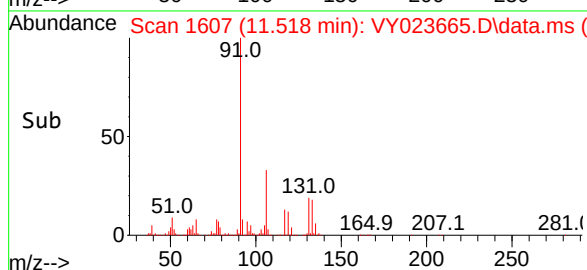
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

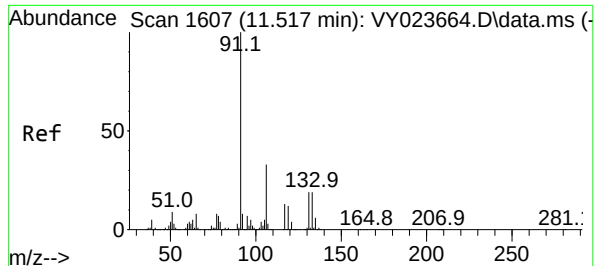


#66  
1,1,1,2-Tetrachloroethane  
Concen: 102.290 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



Tgt Ion:131 Resp: 583207  
Ion Ratio Lower Upper  
131 100  
133 95.2 47.3 141.8  
119 64.6 32.5 97.4





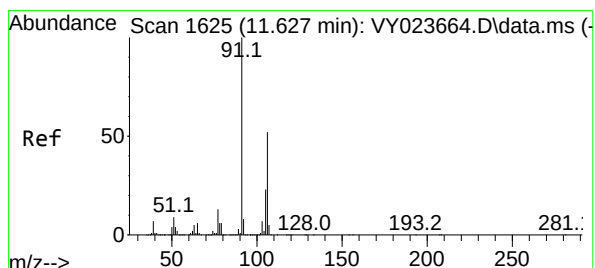
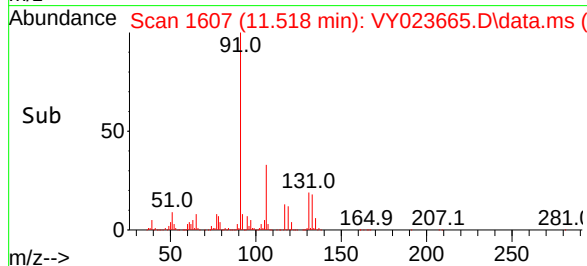
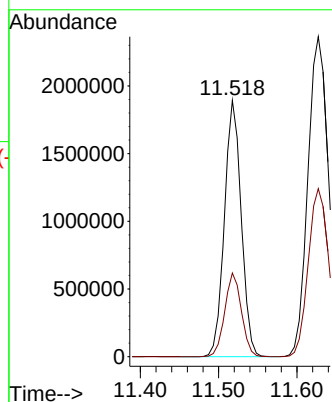
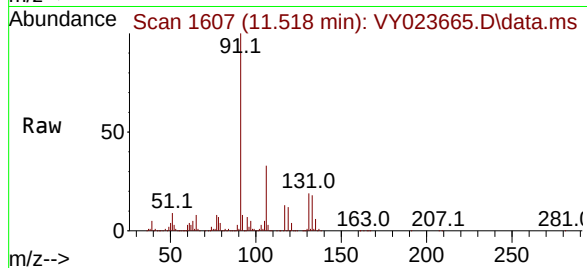
#67  
Ethyl Benzene  
Concen: 108.283 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion: 91 Resp: 282573  
Ion Ratio Lower Upper  
91 100  
106 32.7 26.6 40.0

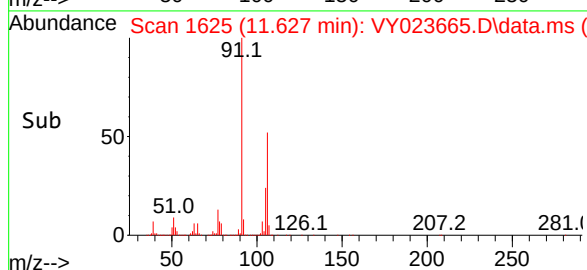
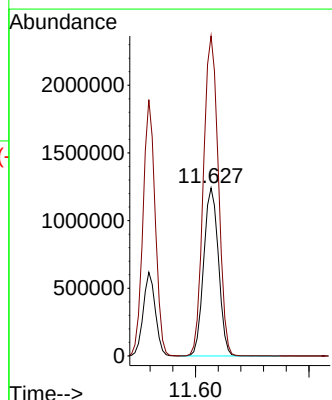
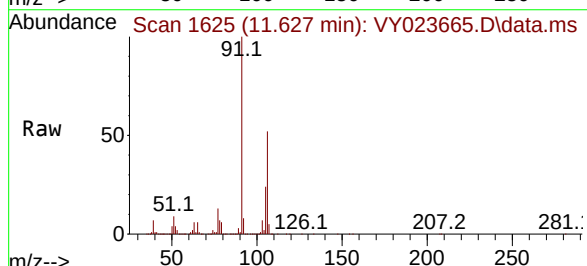
Manual Integrations  
APPROVED

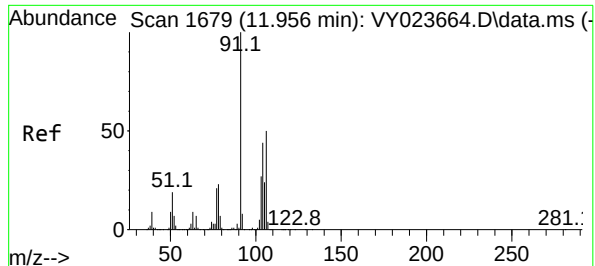
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#68  
m/p-Xylenes  
Concen: 214.992 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion:106 Resp: 2241551  
Ion Ratio Lower Upper  
106 100  
91 192.1 154.3 231.5





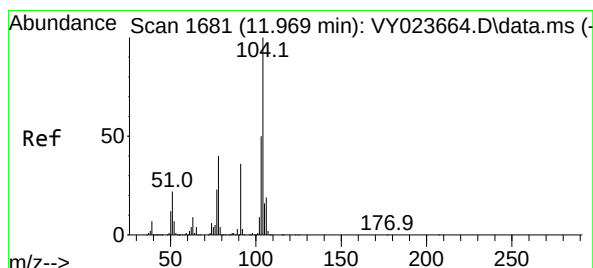
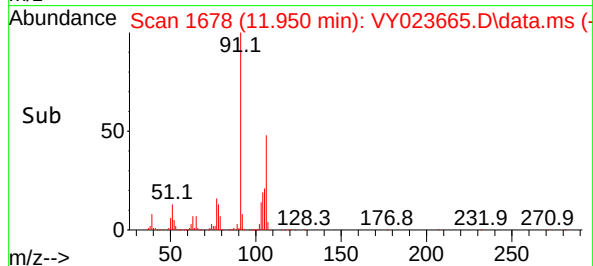
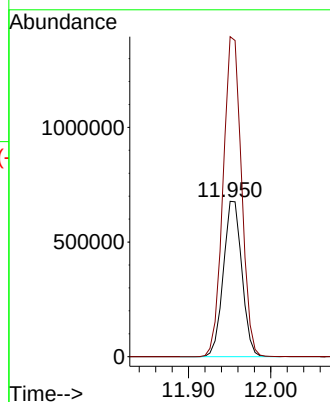
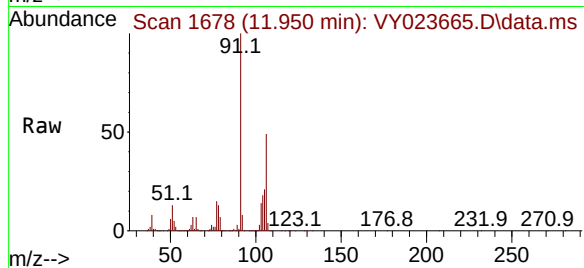
#69  
o-Xylene  
Concen: 110.253 ug/l  
RT: 11.950 min Scan# 1679  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100

Tgt Ion:106 Resp: 1062609  
Ion Ratio Lower Upper  
106 100  
91 204.7 101.6 304.6

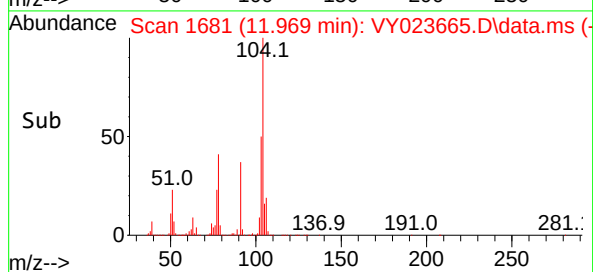
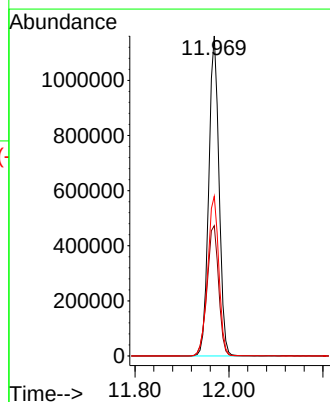
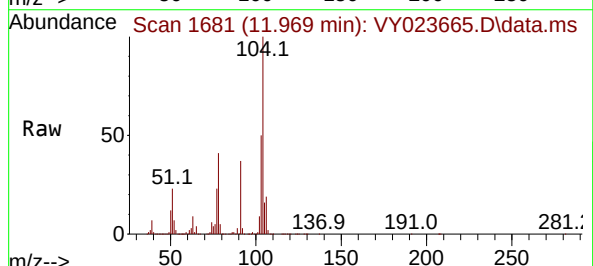
Manual Integrations  
APPROVED

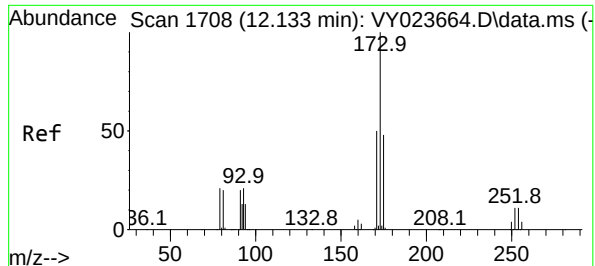
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 110.290 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

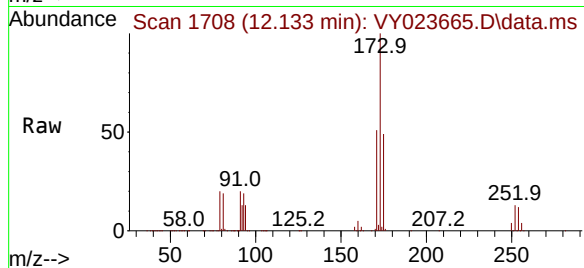
Tgt Ion:104 Resp: 1753830  
Ion Ratio Lower Upper  
104 100  
78 45.9 36.5 54.7  
103 54.4 43.7 65.5





#71  
Bromoform  
Concen: 105.656 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

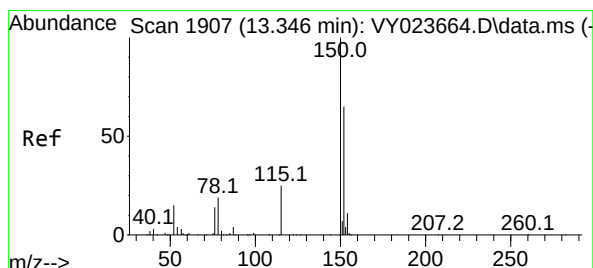
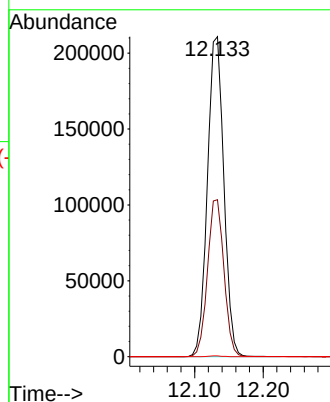
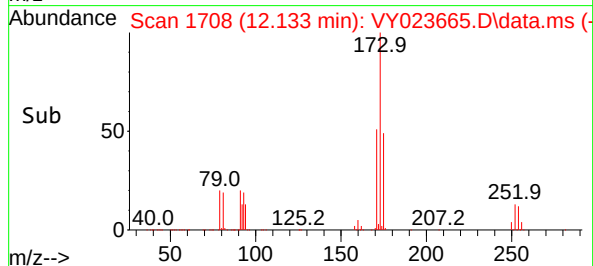
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC100



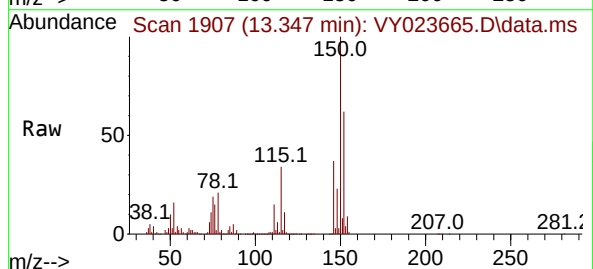
Tgt Ion:173 Resp: 351820  
Ion Ratio Lower Upper  
173 100  
175 49.1 24.2 72.6  
254 0.2 0.2 0.2

Manual Integrations  
APPROVED

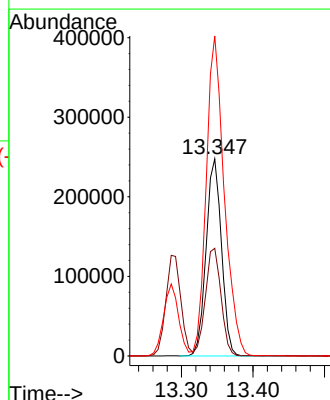
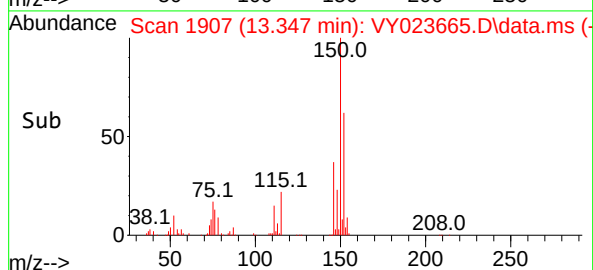
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



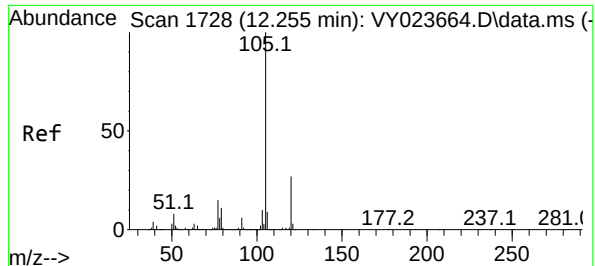
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



Tgt Ion:152 Resp: 370503  
Ion Ratio Lower Upper  
152 100  
115 55.5 27.5 82.5  
150 189.8 0.0 349.0

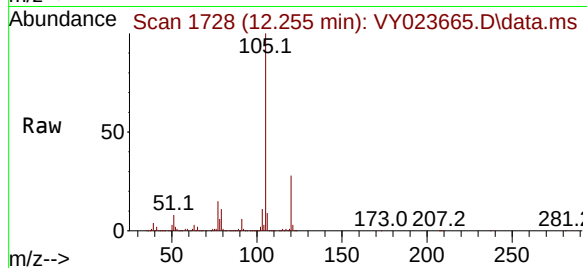






#73  
Isopropylbenzene  
Concen: 108.880 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

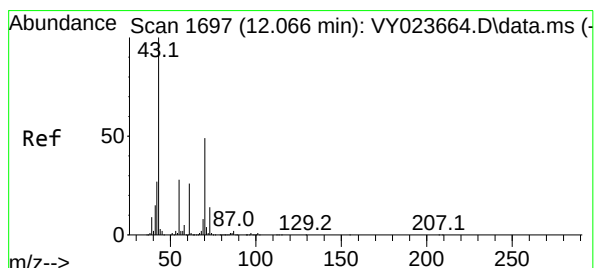
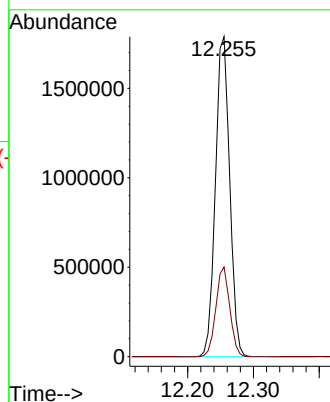
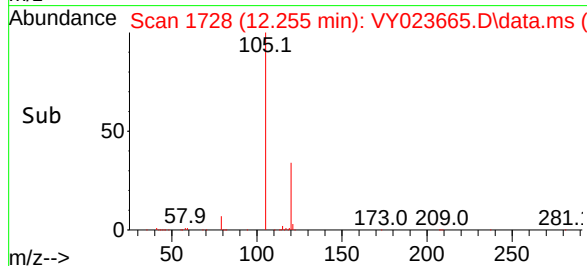
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:105 Resp: 269804  
Ion Ratio Lower Upper  
105 100  
120 27.3 13.6 40.7

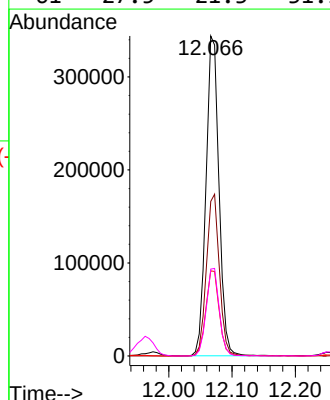
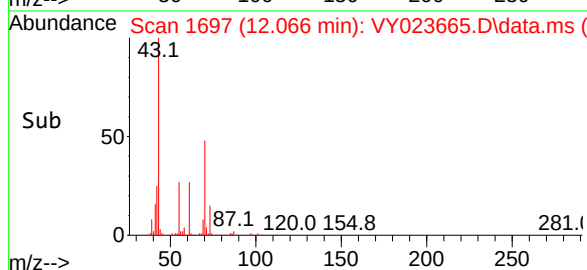
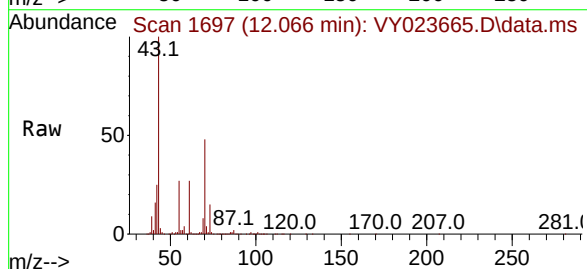
Manual Integrations  
APPROVED

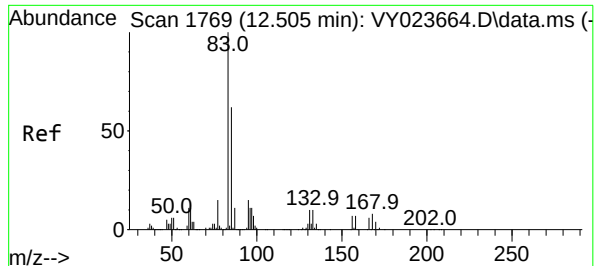
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 117.135 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

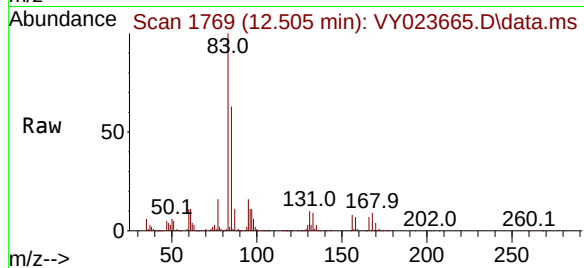
Tgt Ion: 43 Resp: 491427  
Ion Ratio Lower Upper  
43 100  
70 50.8 40.1 60.1  
55 27.6 23.0 34.6  
61 27.5 21.3 31.9





#75  
1,1,2,2-Tetrachloroethane  
Concen: 106.557 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

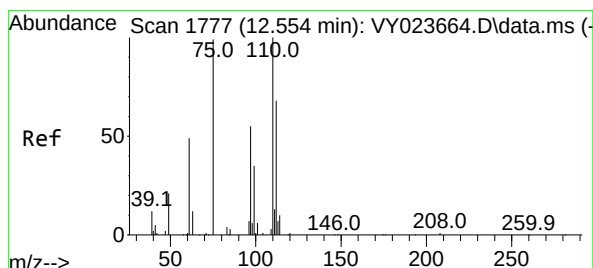
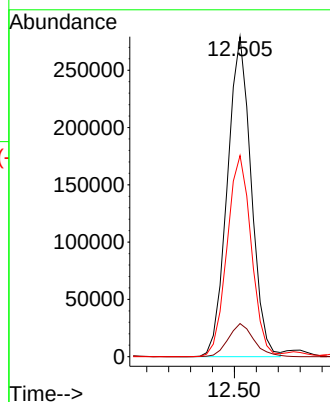
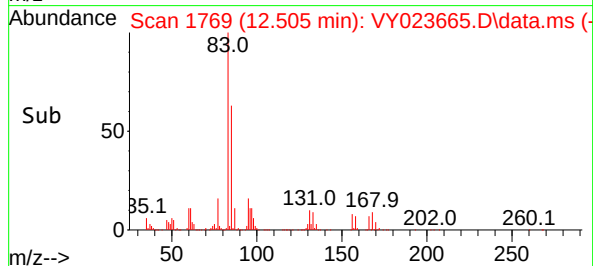
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC100



Tgt Ion: 83 Resp: 421715  
Ion Ratio Lower Upper  
83 100  
131 11.1 5.7 17.0  
85 64.1 31.9 95.7

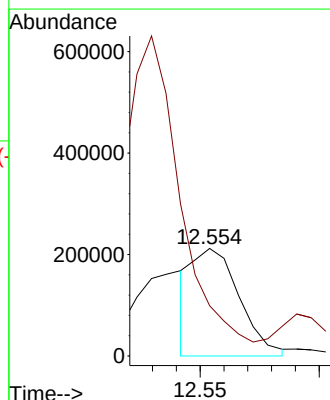
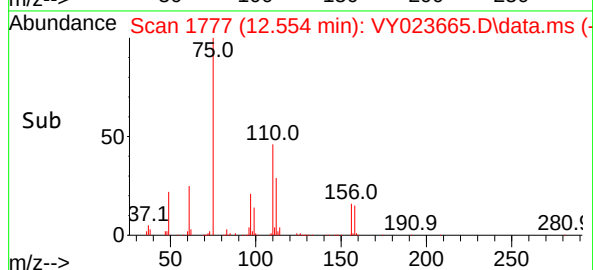
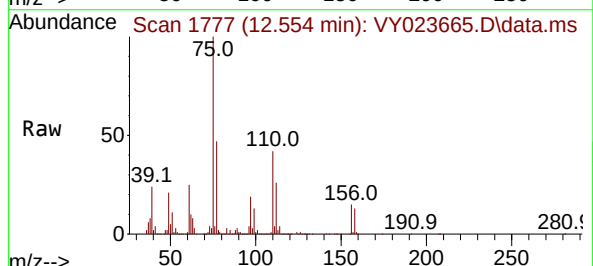
Manual Integrations  
APPROVED

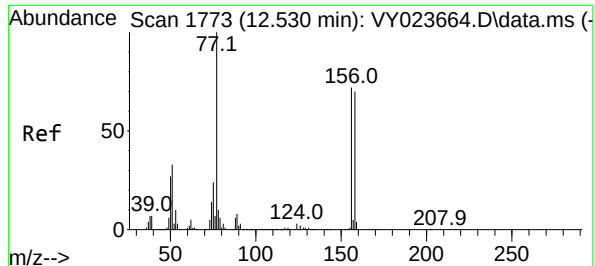
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#76  
1,2,3-Trichloropropane  
Concen: 98.221 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion: 75 Resp: 294519  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 105.471 ug/l

RT: 12.530 min Scan# 1773

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion:156 Resp: 677938

Ion Ratio Lower Upper

156 100

77 159.3 77.9 233.7

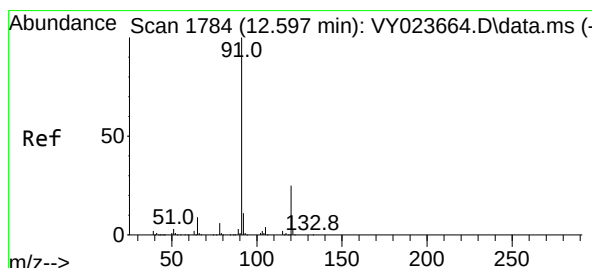
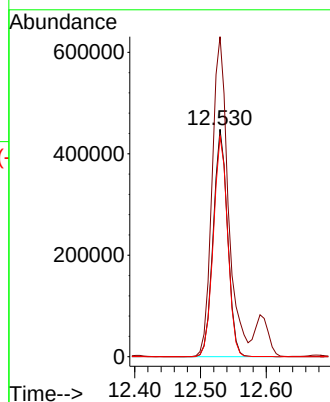
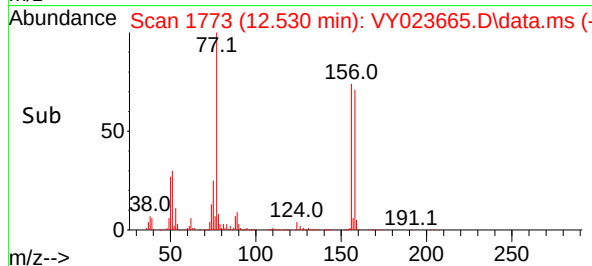
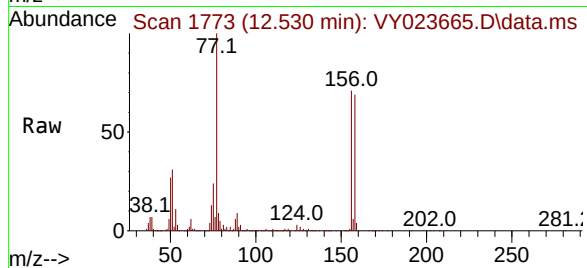
158 97.0 48.5 145.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#78

n-propylbenzene

Concen: 106.906 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY023665.D

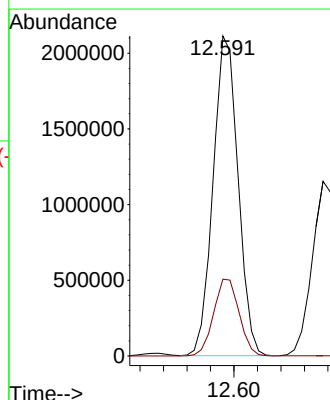
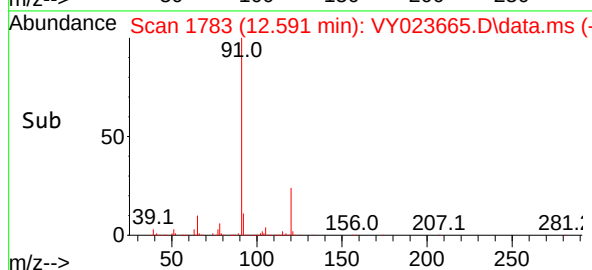
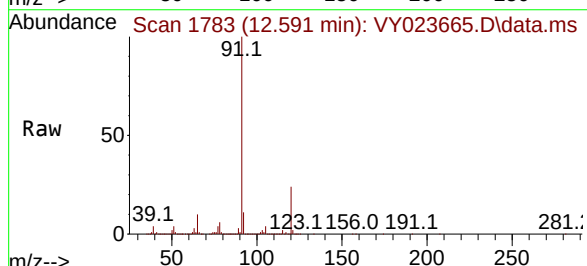
Acq: 04 Nov 2025 11:05

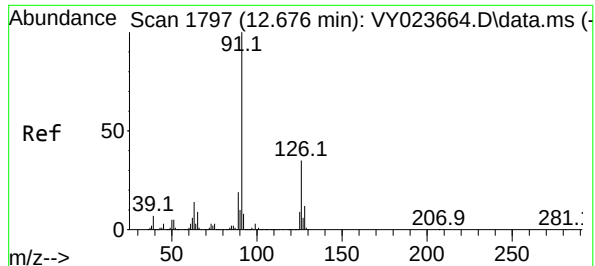
Tgt Ion: 91 Resp: 3116044

Ion Ratio Lower Upper

91 100

120 24.6 12.0 36.1





#79

2-Chlorotoluene

Concen: 105.435 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1783319

Ion Ratio Lower Upper

91 100

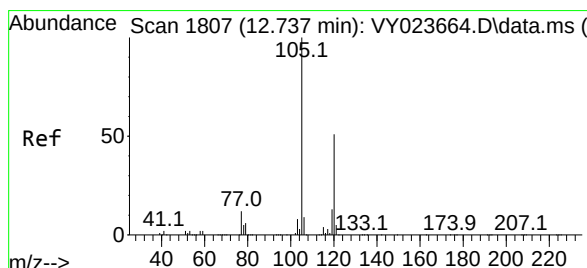
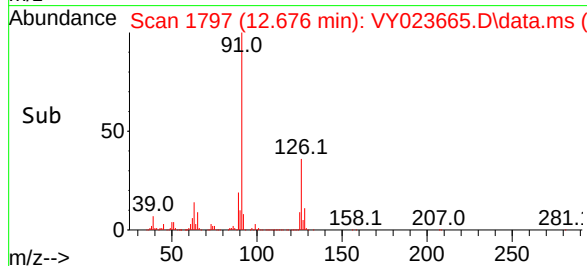
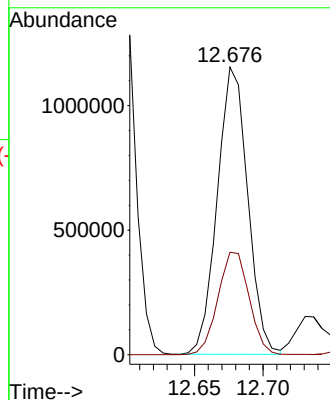
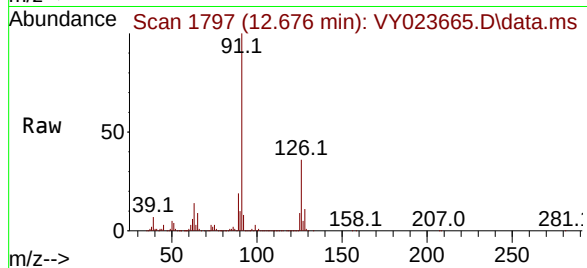
126 36.6 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#80

1,3,5-Trimethylbenzene

Concen: 108.328 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023665.D

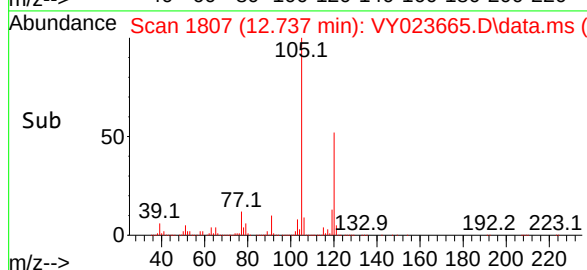
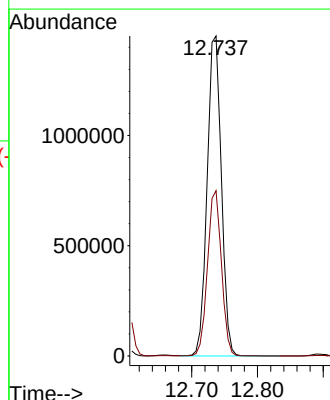
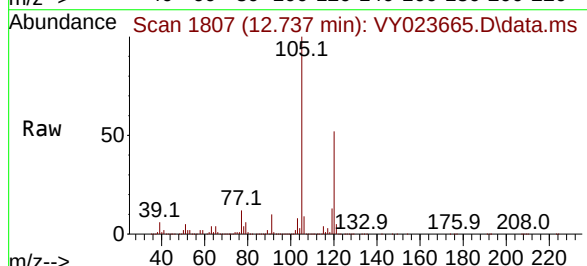
Acq: 04 Nov 2025 11:05

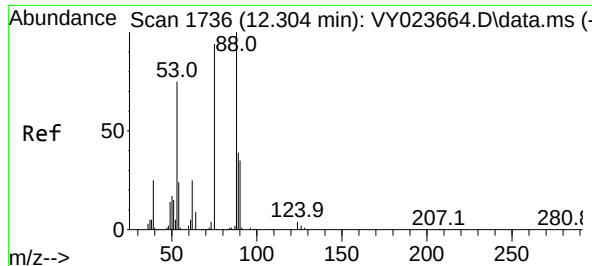
Tgt Ion:105 Resp: 2181015

Ion Ratio Lower Upper

105 100

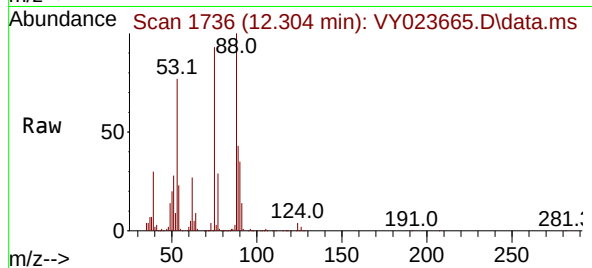
120 50.7 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.168 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

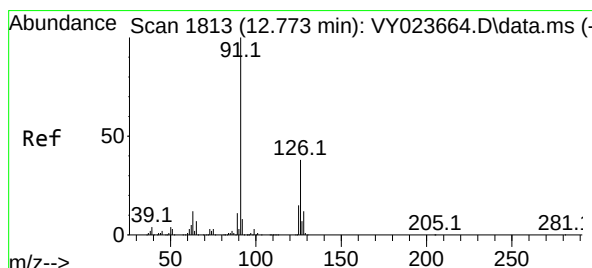
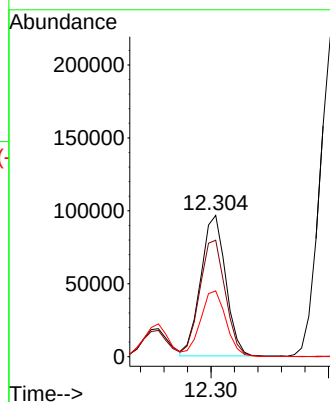
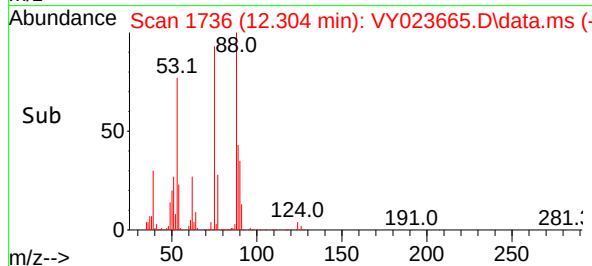
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion: 75 Resp: 142192  
Ion Ratio Lower Upper  
75 100  
53 85.8 69.6 104.4  
89 48.4 38.2 57.4

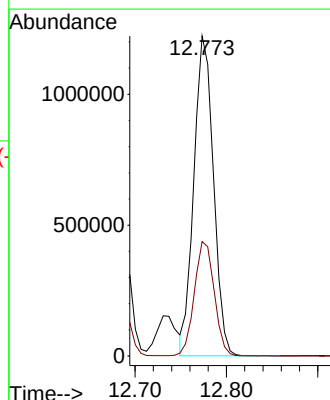
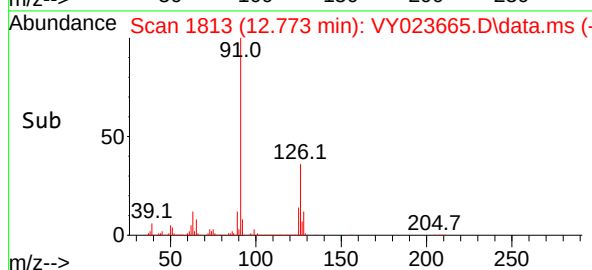
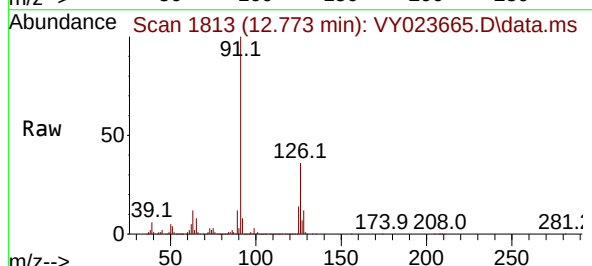
Manual Integrations  
APPROVED

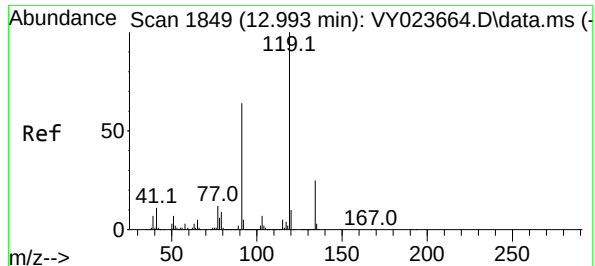
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 104.277 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

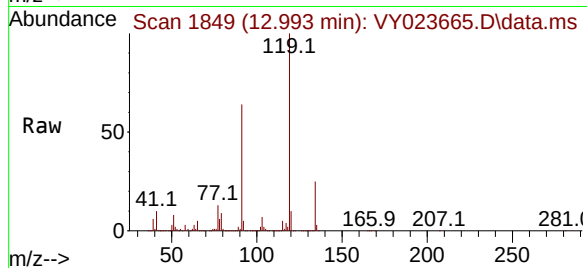
Tgt Ion: 91 Resp: 1818934  
Ion Ratio Lower Upper  
91 100  
126 36.4 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 109.789 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

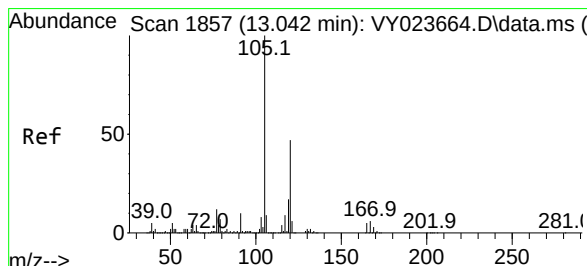
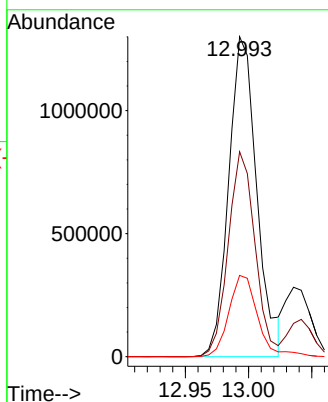
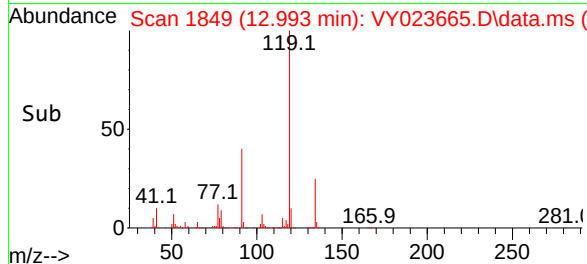
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:119 Resp: 2013210  
Ion Ratio Lower Upper  
119 100  
91 61.1 30.7 92.1  
134 26.1 13.1 39.1

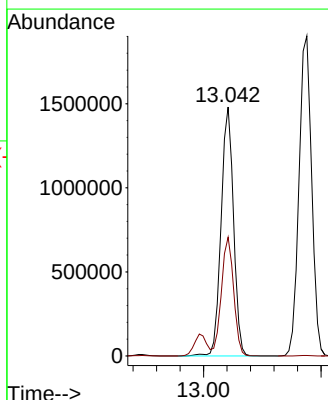
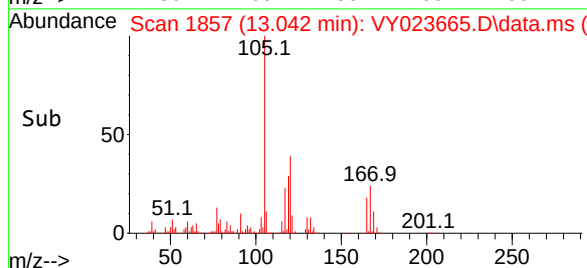
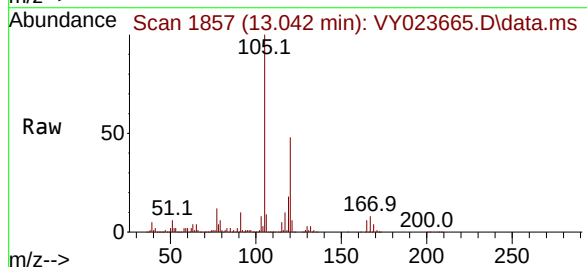
Manual Integrations  
APPROVED

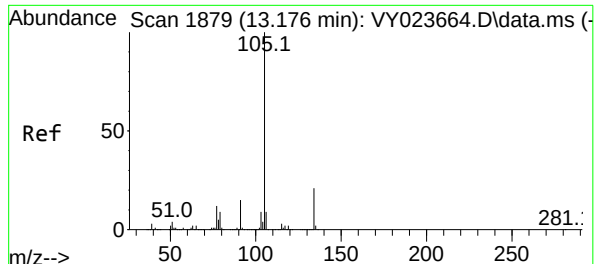
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 108.924 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

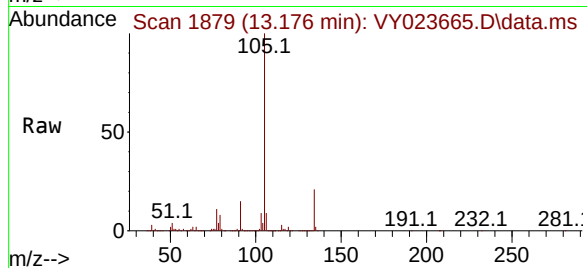
Tgt Ion:105 Resp: 2172108  
Ion Ratio Lower Upper  
105 100  
120 47.1 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 107.306 ug/l  
RT: 13.176 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

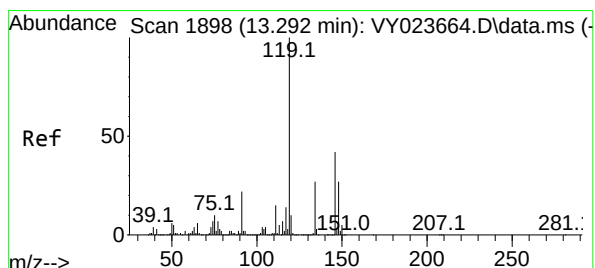
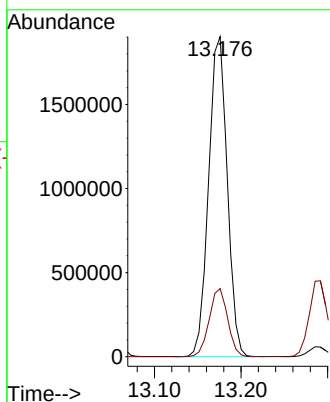
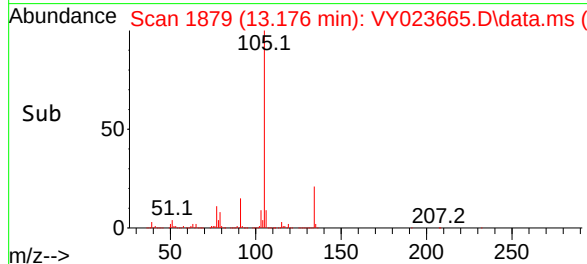
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



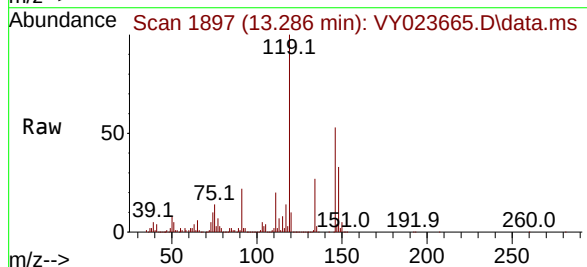
Tgt Ion:105 Resp: 283805  
Ion Ratio Lower Upper  
105 100  
134 21.1 10.4 31.4

Manual Integrations  
APPROVED

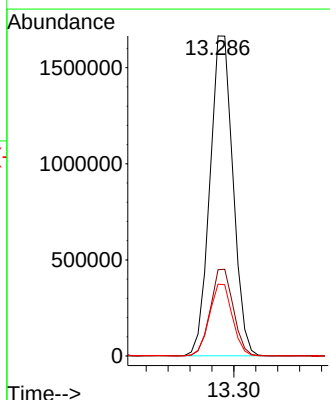
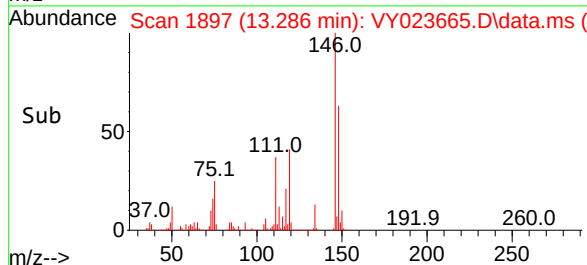
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

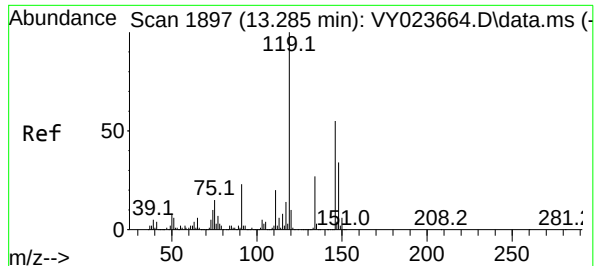


#86  
p-Isopropyltoluene  
Concen: 108.929 ug/l  
RT: 13.286 min Scan# 1897  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05



Tgt Ion:119 Resp: 2438892  
Ion Ratio Lower Upper  
119 100  
134 27.0 13.4 40.2  
91 22.2 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 102.159 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 1292429

Ion Ratio Lower Upper

146 100

111 37.9 18.8 56.3

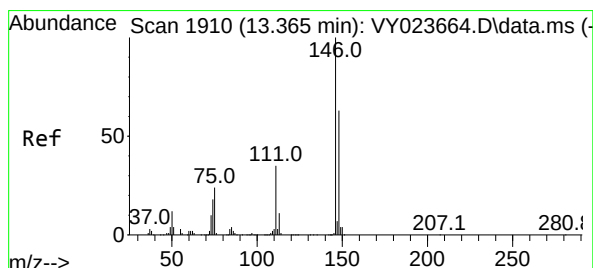
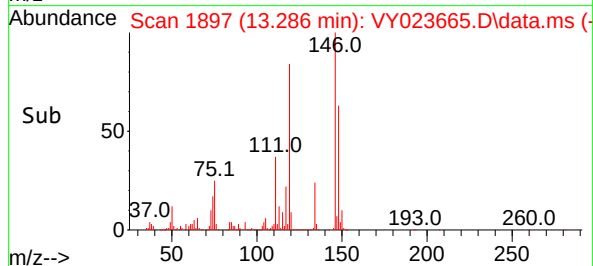
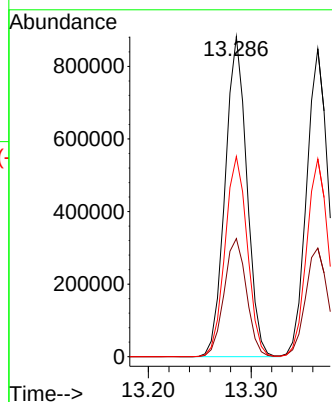
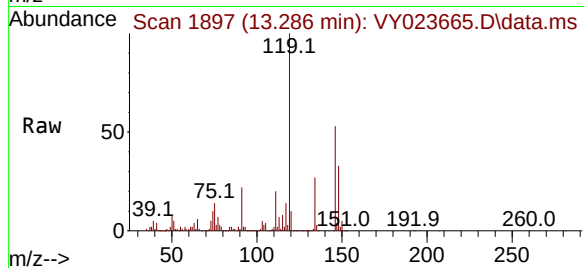
148 64.2 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 100.096 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

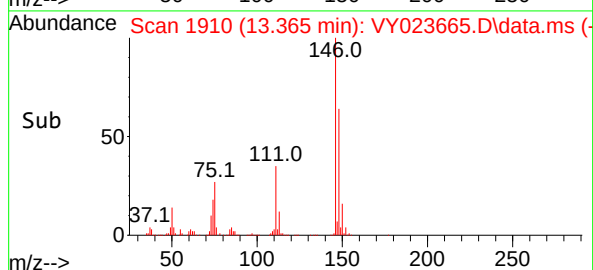
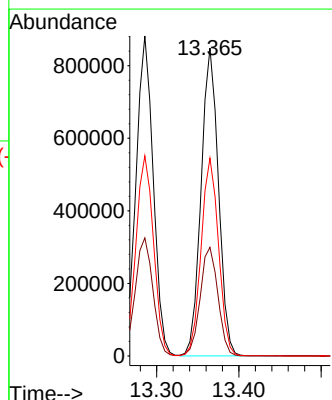
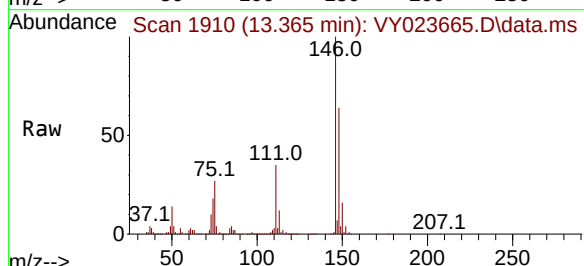
Tgt Ion:146 Resp: 1243927

Ion Ratio Lower Upper

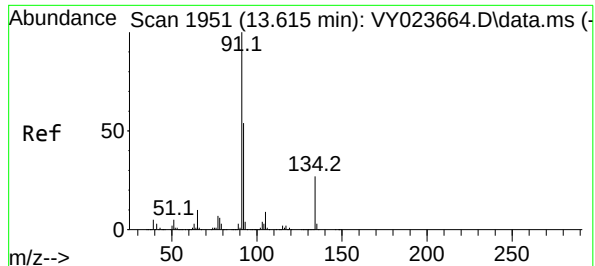
146 100

111 36.1 18.3 54.8

148 64.5 31.8 95.3







#89

n-Butylbenzene

Concen: 109.503 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 213196

Ion Ratio Lower Upper

91 100

92 54.2 26.5 79.4

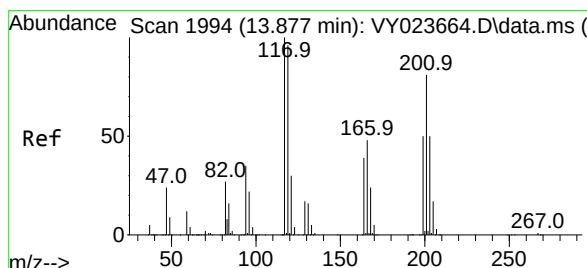
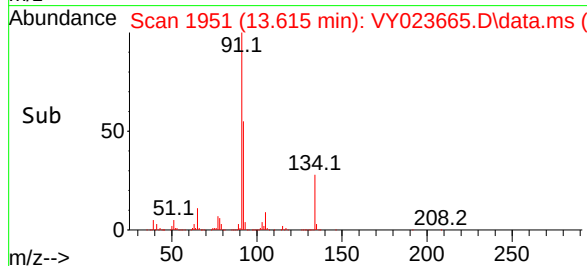
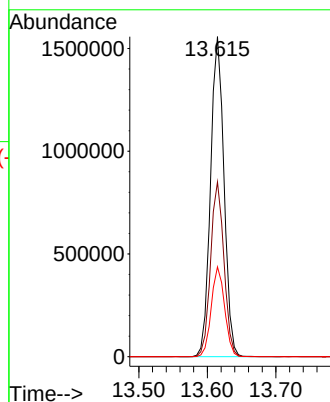
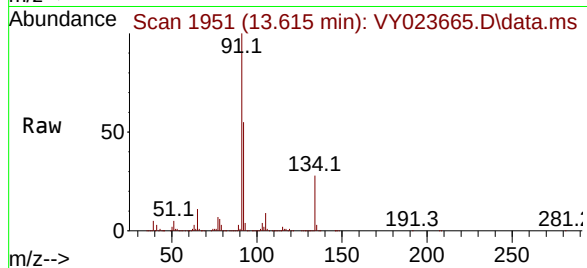
134 27.8 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 102.262 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023665.D

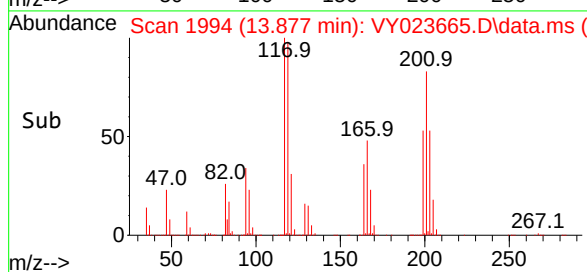
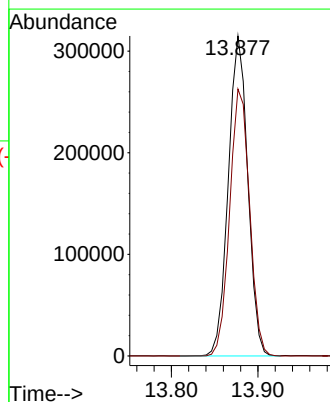
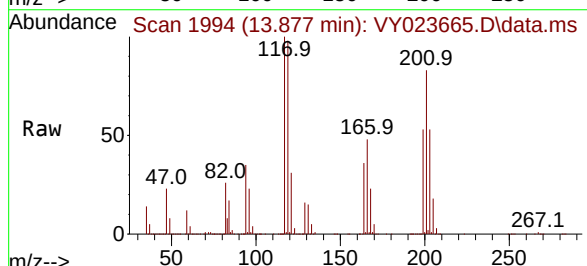
Acq: 04 Nov 2025 11:05

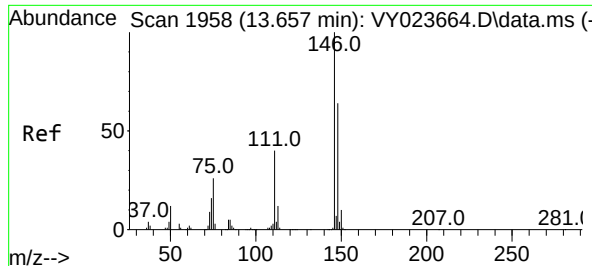
Tgt Ion:117 Resp: 492034

Ion Ratio Lower Upper

117 100

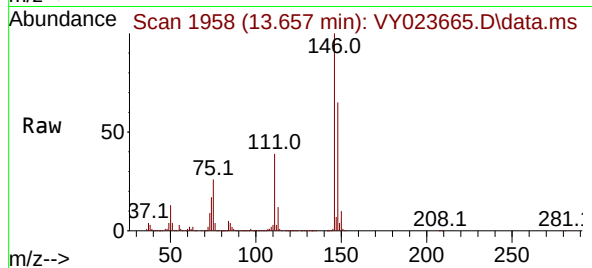
201 85.0 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 101.567 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

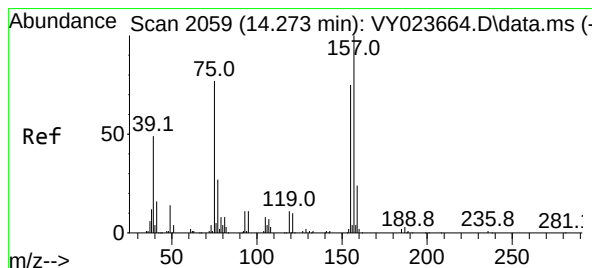
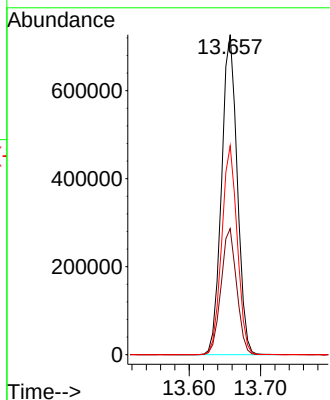
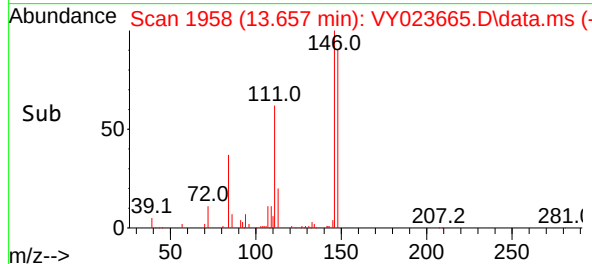
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC100



Tgt Ion:146 Resp: 110734  
Ion Ratio Lower Upper  
146 100  
111 39.3 19.5 58.5  
148 64.8 31.9 95.9

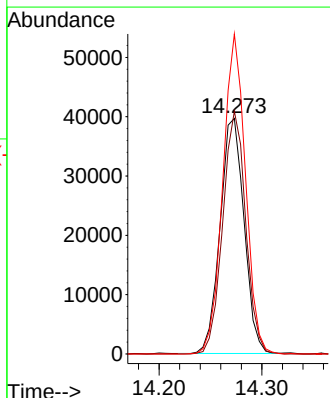
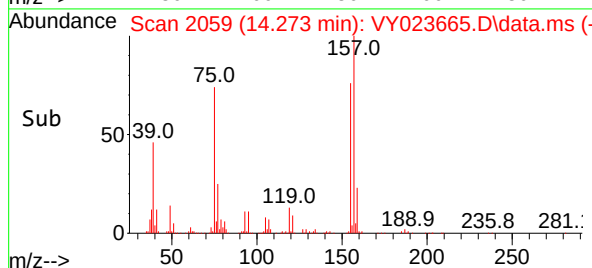
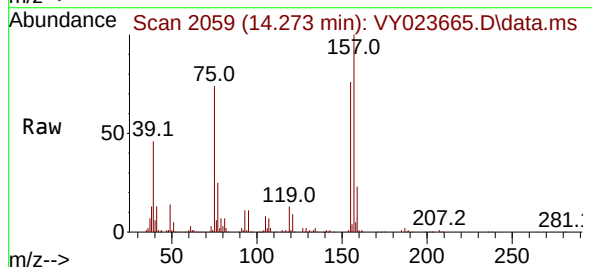
Manual Integrations  
APPROVED

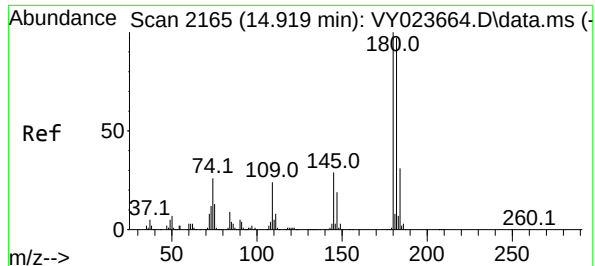
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 105.113 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion: 75 Resp: 64052  
Ion Ratio Lower Upper  
75 100  
155 99.0 49.4 148.2  
157 128.6 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 110.855 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 691314

Ion Ratio Lower Upper

180 100

182 95.1 47.5 142.6

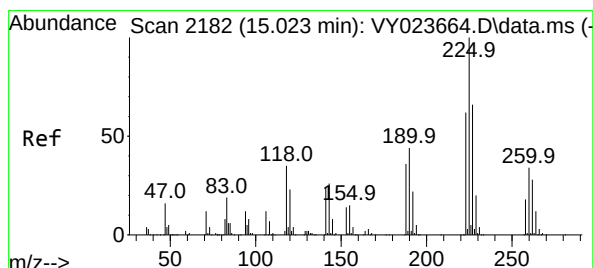
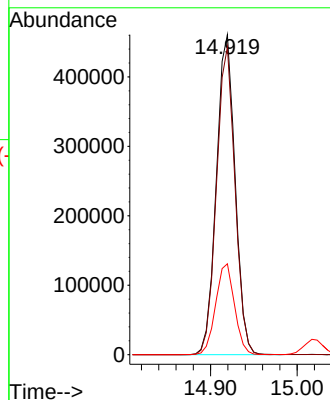
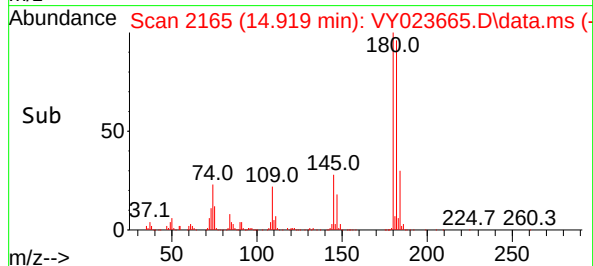
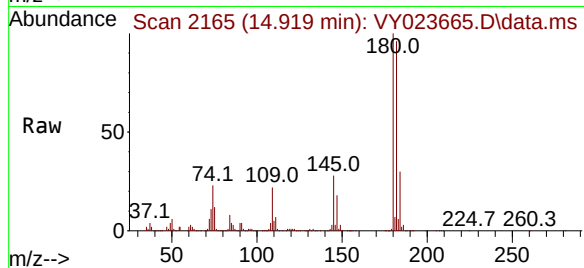
145 28.7 14.4 43.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#94

Hexachlorobutadiene

Concen: 101.602 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.000 min

Lab File: VY023665.D

Acq: 04 Nov 2025 11:05

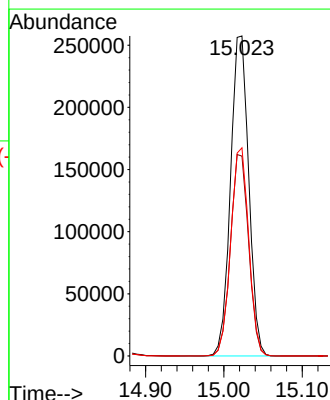
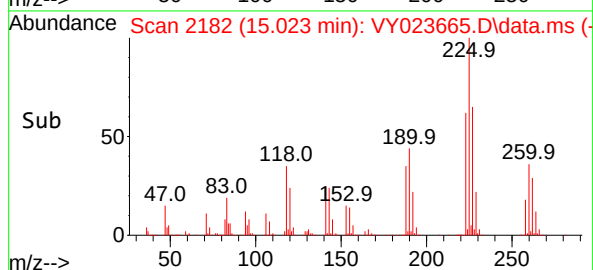
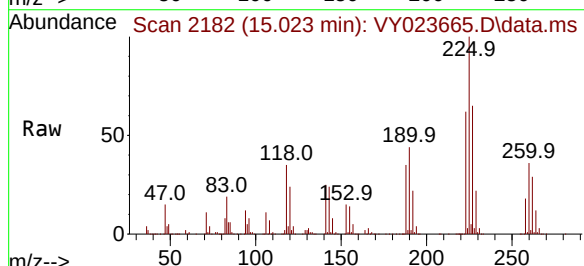
Tgt Ion:225 Resp: 415145

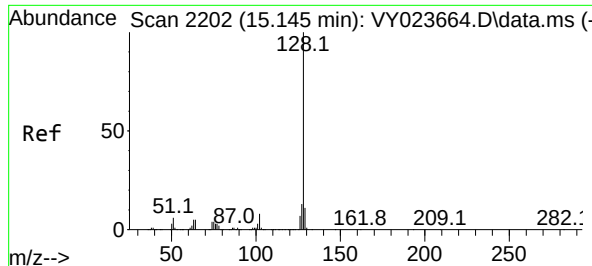
Ion Ratio Lower Upper

225 100

223 62.8 30.8 92.3

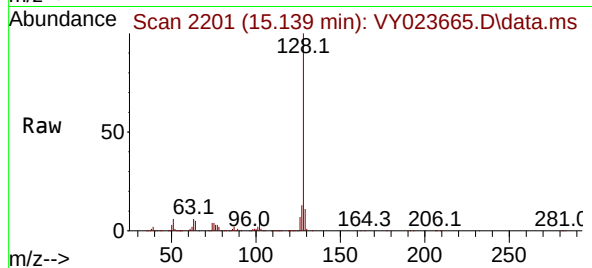
227 64.5 32.0 96.2





#95  
Naphthalene  
Concen: 99.258 ug/l  
RT: 15.139 min Scan# 2201  
Delta R.T. -0.006 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

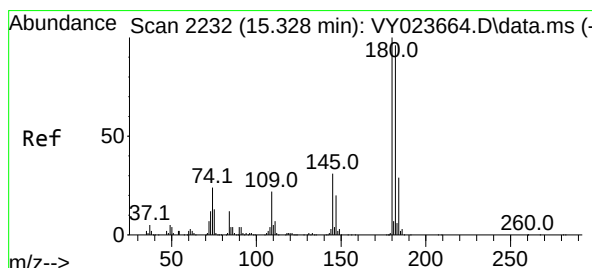
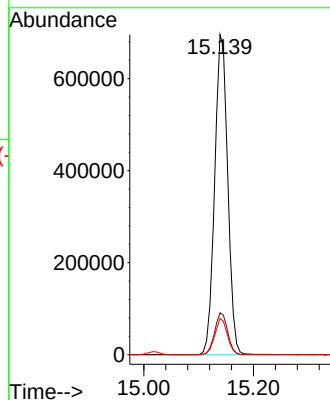
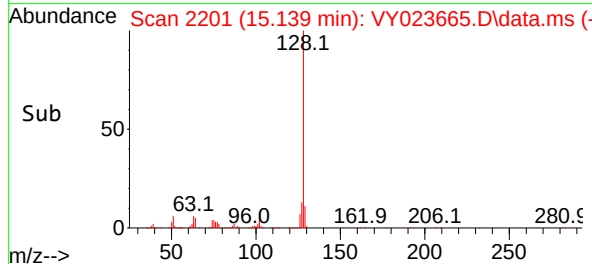
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC100



Tgt Ion:128 Resp: 1145310  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 10.8 8.8 13.2

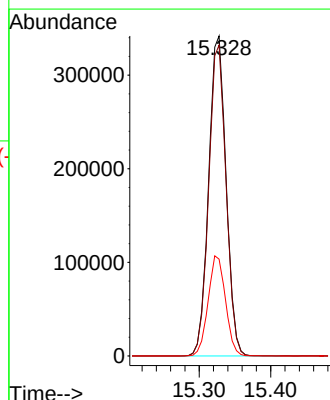
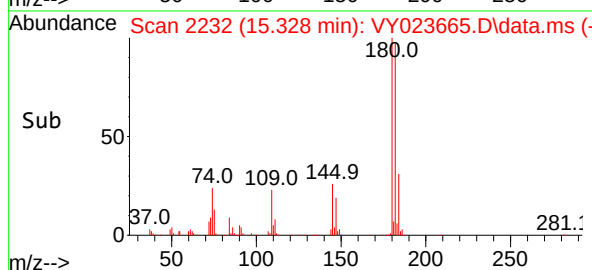
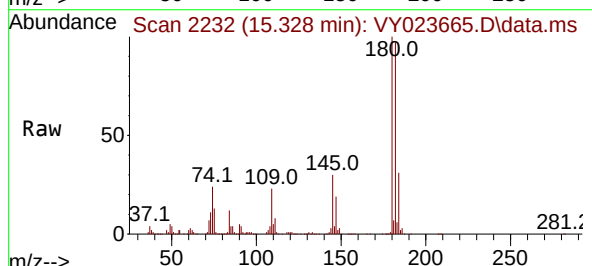
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 111.152 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023665.D  
Acq: 04 Nov 2025 11:05

Tgt Ion:180 Resp: 579136  
Ion Ratio Lower Upper  
180 100  
182 96.5 47.5 142.6  
145 31.2 15.5 46.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023666.D  
 Acq On : 04 Nov 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 621042               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 901916               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 790988               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 391606               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 757684               | 143.025 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 286.060%# |         |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 832527               | 147.706 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 295.420%# |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 3136015              | 149.364 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 298.720%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 1040552              | 153.250 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 306.500%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 496440               | 121.776 | ug/l   | 99       |
| 3) Chloromethane             | 2.068          | 50   | 712373               | 124.873 | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.208          | 62   | 946660               | 127.526 | ug/l   | 99       |
| 5) Bromomethane              | 2.586          | 94   | 814598               | 130.454 | ug/l   | 99       |
| 6) Chloroethane              | 2.733          | 64   | 660222               | 128.682 | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 1409197              | 134.789 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.452          | 74   | 408901               | 145.847 | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.812          | 101  | 772147               | 134.049 | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 993484               | 146.059 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 249226               | 729.606 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 780521               | 140.665 | ug/l   | 99       |
| 13) Acrolein                 | 3.653          | 56   | 304058               | 692.535 | ug/l   | 99       |
| 14) Allyl chloride           | 4.385          | 41   | 1016094              | 150.446 | ug/l   | 98       |
| 15) Acrylonitrile            | 5.055          | 53   | 824786               | 769.798 | ug/l   | 99       |
| 16) Acetone                  | 3.866          | 43   | 947595               | 719.612 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.104          | 76   | 2304859              | 135.337 | ug/l   | 100      |
| 18) Methyl Acetate           | 4.385          | 43   | 405494               | 139.609 | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 2032527              | 157.970 | ug/l   | 99       |
| 20) Methylene Chloride       | 4.616          | 84   | 813039               | 127.899 | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 892080               | 142.587 | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.019          | 45   | 2264384              | 150.464 | ug/l   | 98       |
| 23) Vinyl Acetate            | 5.958          | 43   | 6576961              | 818.950 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 1415798              | 141.217 | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 1180801              | 775.579 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 1319960              | 143.128 | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 1051376              | 147.141 | ug/l   | 99       |
| 28) Bromochloromethane       | 7.244          | 49   | 519064               | 135.216 | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 655805               | 808.815 | ug/l   | 99       |
| 30) Chloroform               | 7.421          | 83   | 1551090              | 138.663 | ug/l   | 99       |
| 31) Cyclohexane              | 7.701          | 56   | 1230432              | 140.926 | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 1402944              | 140.327 | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 1096950              | 145.645 | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.982          | 43   | 465489               | 159.651 | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 1279569              | 144.193 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.109          | 83   | 1522789              | 158.237 | ug/l   | 99       |
| 40) Benzene                  | 8.079          | 78   | 3423551              | 144.208 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023666.D  
 Acq On : 04 Nov 2025 11:27  
 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 270053   | 173.645  | ug/l  | 93       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 864999   | 144.018  | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 915445   | 167.105  | ug/l  | 100      |
| 44) Trichloroethene           | 8.866  | 130  | 968647   | 142.056  | ug/l  | 100      |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 765153   | 146.035  | ug/l  | 98       |
| 46) Dibromomethane            | 9.231  | 93   | 477241   | 147.004  | ug/l  | 99       |
| 47) Bromodichloromethane      | 9.420  | 83   | 1193540  | 145.820  | ug/l  | 100      |
| 48) Methyl methacrylate       | 9.219  | 41   | 456960   | 176.551  | ug/l  | 99       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 110006   | 3311.077 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 2437010  | 836.491  | ug/l  | 100      |
| 52) Toluene                   | 10.170 | 92   | 2278105  | 150.304  | ug/l  | 97       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 1101094  | 158.988  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 1281333  | 154.422  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 637615   | 146.967  | ug/l  | 98       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 873314   | 182.696  | ug/l  | 99       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 1018360  | 147.983  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 1973993  | 899.933  | ug/l  | 99       |
| 59) 2-Hexanone                | 10.762 | 43   | 1802207  | 847.892  | ug/l  | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 889783   | 149.265  | ug/l  | 99       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 612102   | 150.335  | ug/l  | 100      |
| 64) Tetrachloroethene         | 10.646 | 164  | 1096726  | 133.211  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 2508744  | 145.689  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 891788   | 146.458  | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 4316877  | 154.896  | ug/l  | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 3451849  | 310.002  | ug/l  | 99       |
| 69) o-Xylene                  | 11.957 | 106  | 1640734  | 159.402  | ug/l  | 100      |
| 70) Styrene                   | 11.969 | 104  | 2716949  | 159.981  | ug/l  | 99       |
| 71) Bromoform                 | 12.133 | 173  | 548567   | 154.254  | ug/l  | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 4137095  | 157.957  | ug/l  | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 819575   | 184.824  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 662143   | 158.291  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 459716m  | 145.052  | ug/l  |          |
| 77) Bromobenzene              | 12.530 | 156  | 1039954  | 153.073  | ug/l  | 98       |
| 78) n-propylbenzene           | 12.591 | 91   | 4789010  | 155.449  | ug/l  | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 2739475  | 153.238  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 3356489  | 157.728  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 230746   | 164.538  | ug/l  | 98       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 2799224  | 151.827  | ug/l  | 99       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 3140967  | 162.060  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 3343184  | 158.616  | ug/l  | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 4372346  | 156.408  | ug/l  | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 3826970  | 161.714  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 2007587  | 150.136  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 1914429  | 145.749  | ug/l  | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 3341239  | 162.367  | ug/l  | 98       |
| 90) Hexachloroethane          | 13.877 | 117  | 761235   | 149.685  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 1711163  | 148.493  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 101448   | 157.511  | ug/l  | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 1108704  | 168.205  | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 641847   | 148.620  | ug/l  | 99       |
| 95) Naphthalene               | 15.139 | 128  | 1891291  | 152.117  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 929367   | 168.759  | ug/l  | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023666.D  
Acq On : 04 Nov 2025 11:27  
Operator : SY/MD  
Sample : VSTDICC150  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:30:30 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:24:21 2025  
Response via : Initial Calibration

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

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

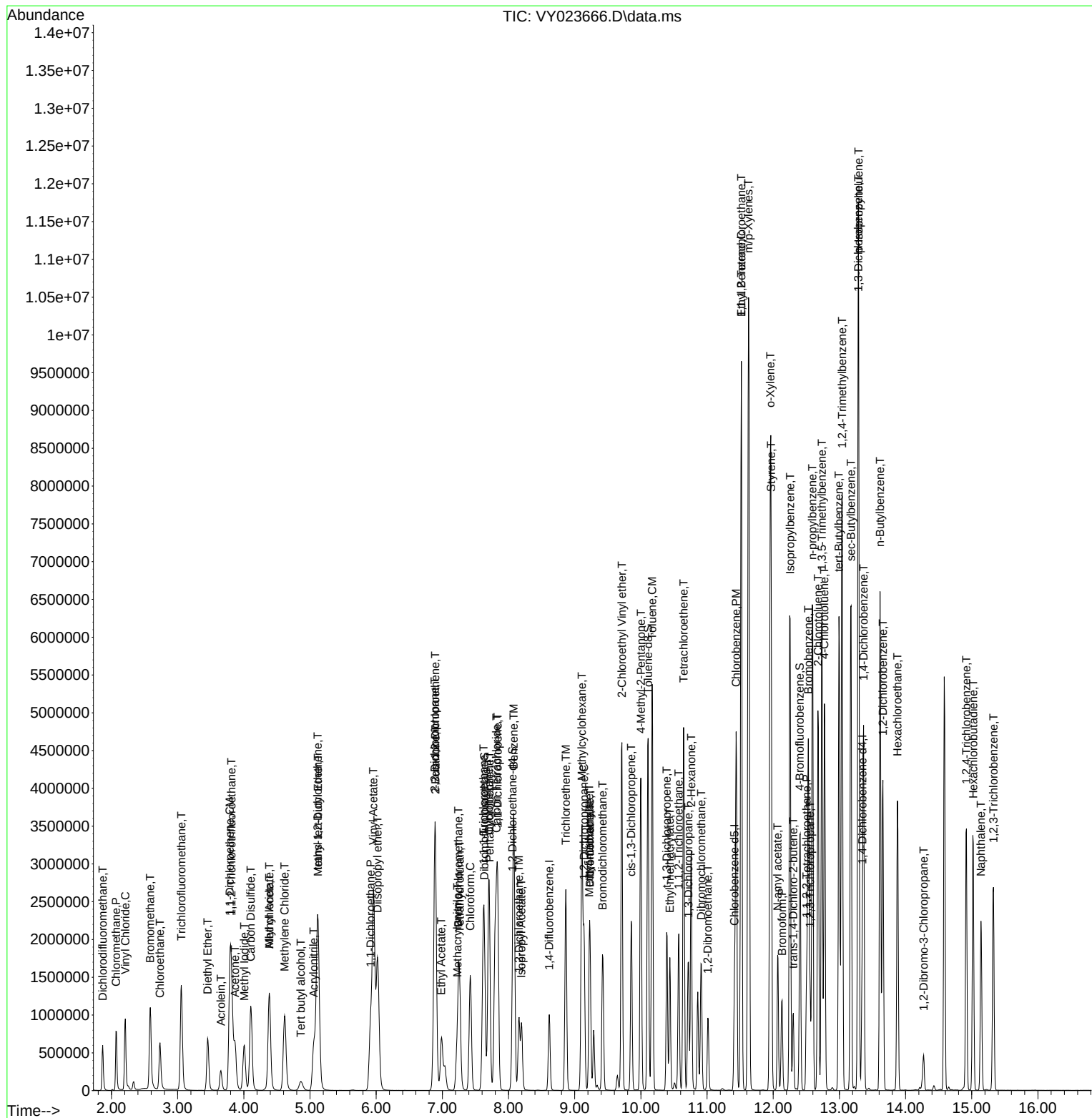
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 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

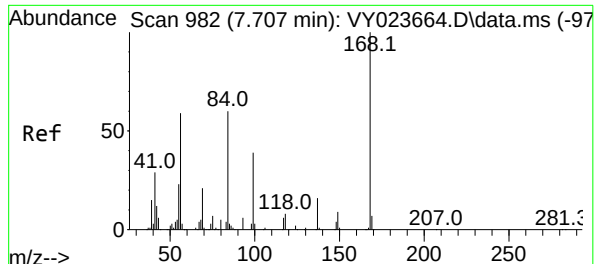
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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:24:21 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025







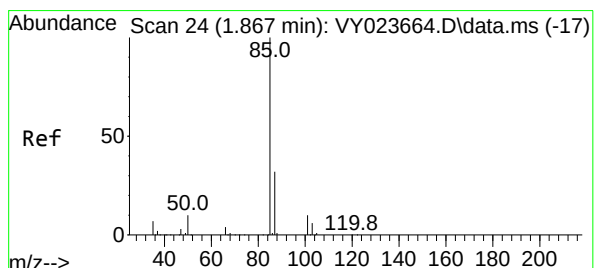
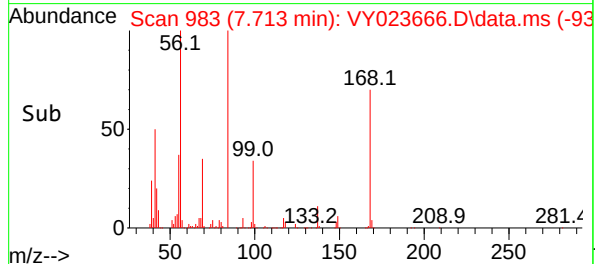
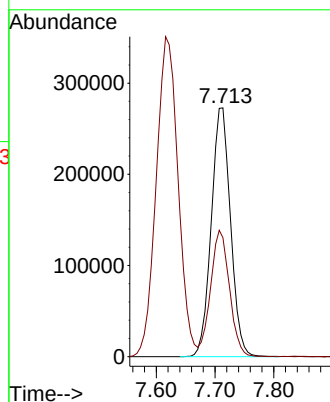
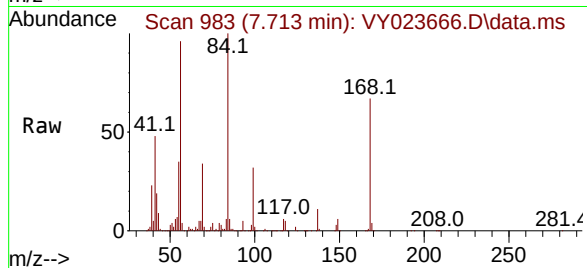
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Tgt Ion:168 Resp: 62104  
Ion Ratio Lower Upper  
168 100  
99 47.8 41.0 61.4

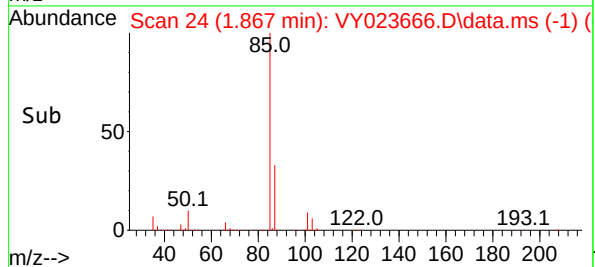
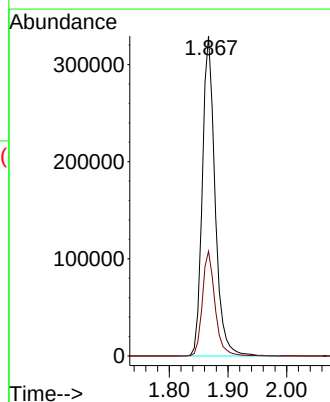
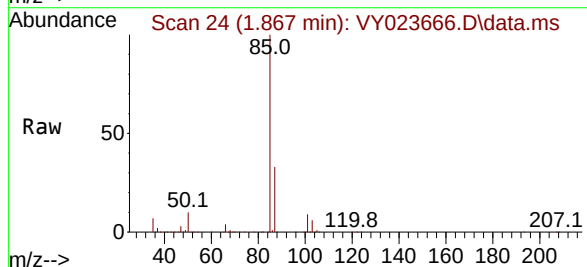
Manual Integrations  
APPROVED

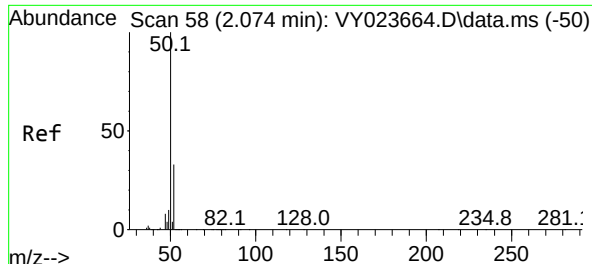
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 121.776 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

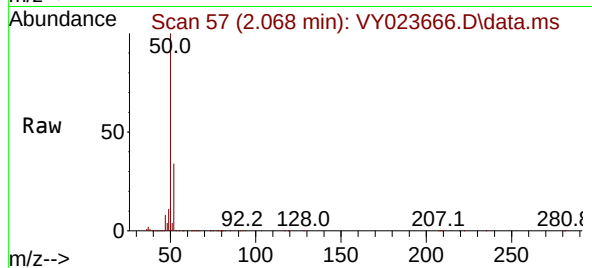
Tgt Ion: 85 Resp: 496440  
Ion Ratio Lower Upper  
85 100  
87 32.7 16.2 48.6





#3  
Chloromethane  
Concen: 124.873 ug/l  
RT: 2.068 min Scan# 51  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

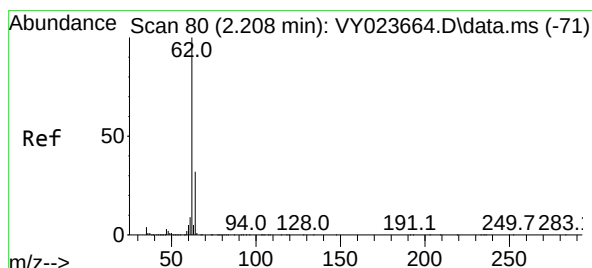
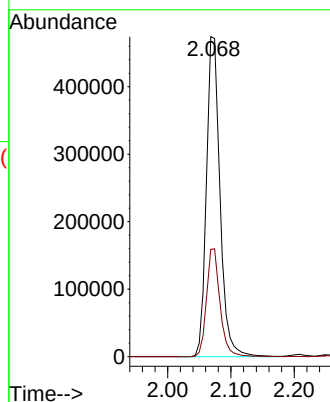
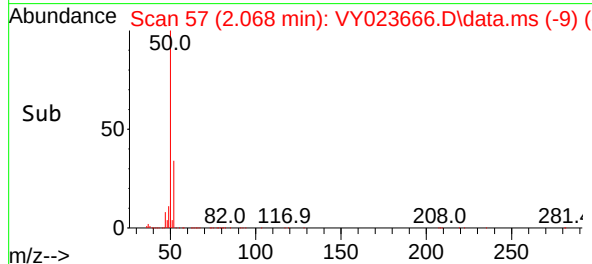
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



Tgt Ion: 50 Resp: 71237  
Ion Ratio Lower Upper  
50 100  
52 33.6 26.5 39.7

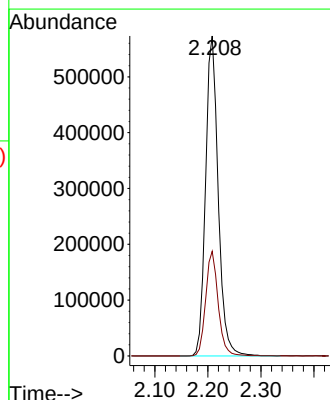
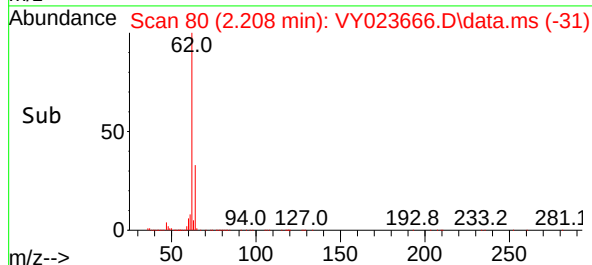
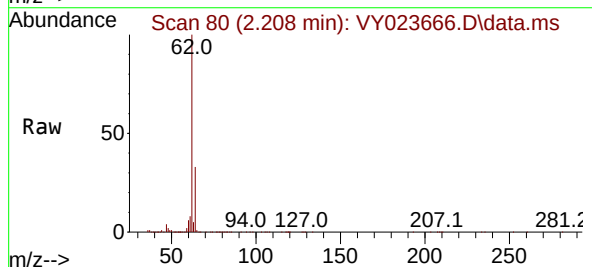
Manual Integrations  
APPROVED

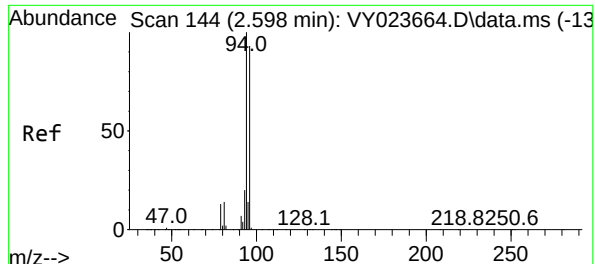
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#4  
Vinyl Chloride  
Concen: 127.526 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 62 Resp: 946660  
Ion Ratio Lower Upper  
62 100  
64 32.7 25.7 38.5





#5

Bromomethane

Concen: 130.454 ug/l

RT: 2.586 min Scan# 144

Delta R.T. -0.012 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 814598

Ion Ratio Lower Upper

94 100

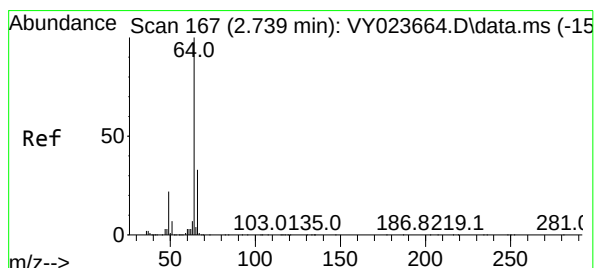
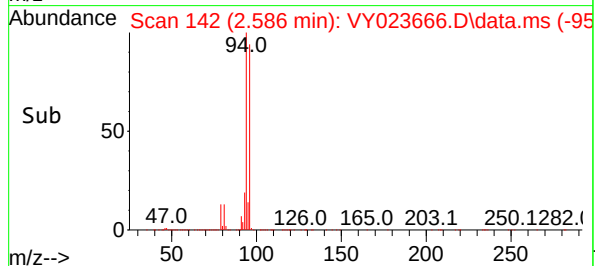
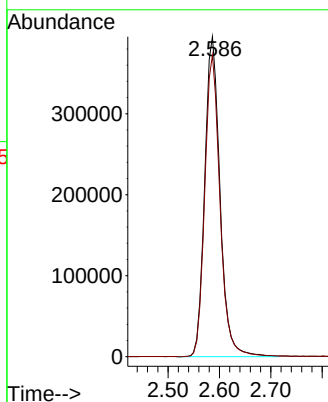
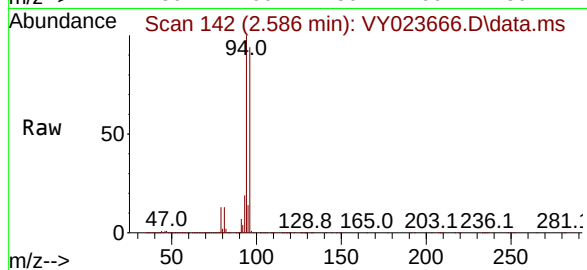
96 94.3 74.4 111.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#6

Chloroethane

Concen: 128.682 ug/l

RT: 2.733 min Scan# 166

Delta R.T. -0.006 min

Lab File: VY023666.D

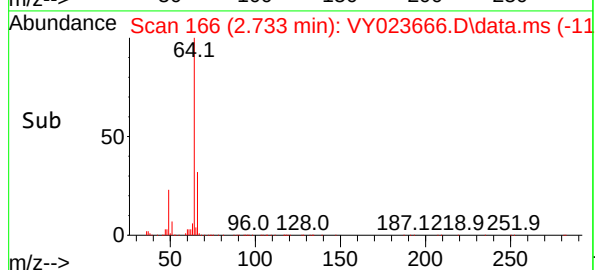
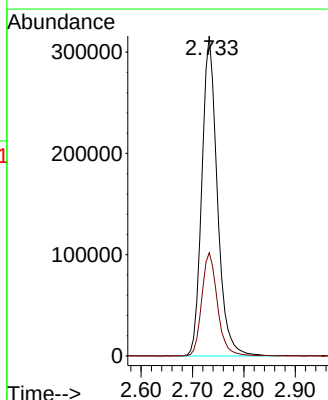
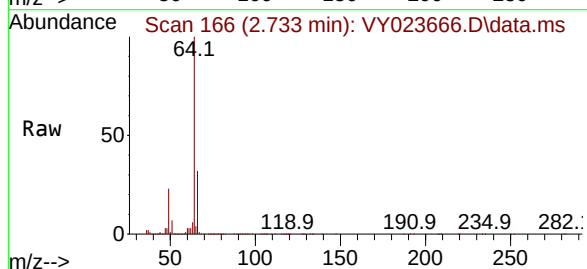
Acq: 04 Nov 2025 11:27

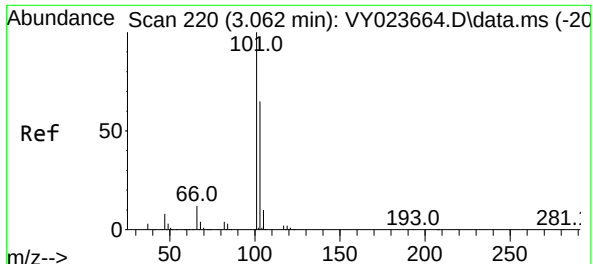
Tgt Ion: 64 Resp: 660222

Ion Ratio Lower Upper

64 100

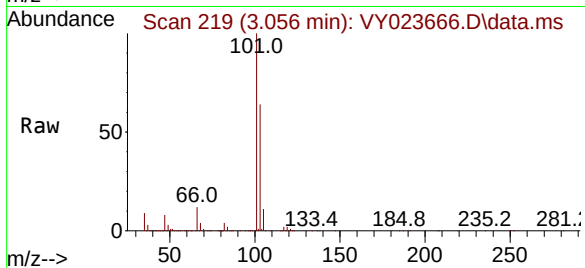
66 32.2 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 134.789 ug/l  
RT: 3.056 min Scan# 219  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

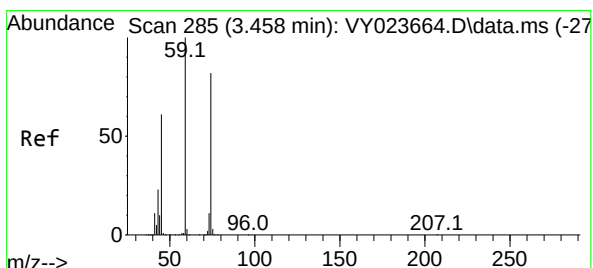
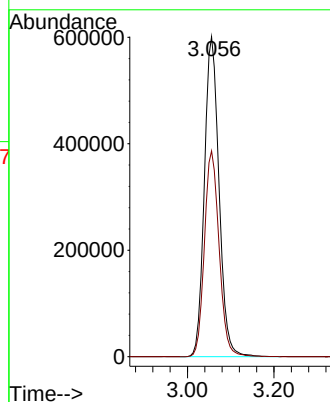
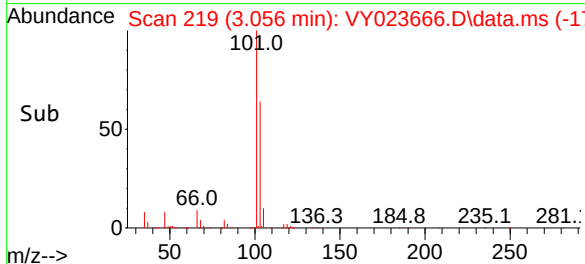
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



Tgt Ion:101 Resp: 140919  
Ion Ratio Lower Upper  
101 100  
103 64.3 52.1 78.1

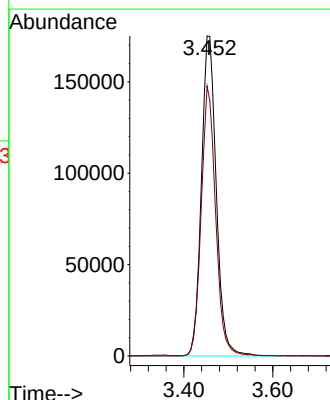
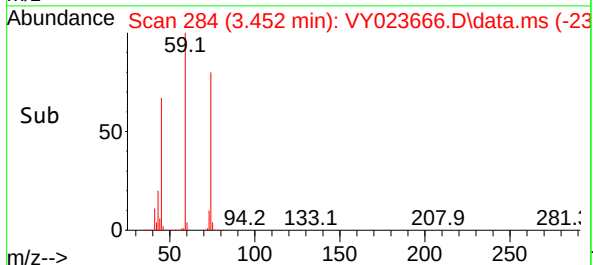
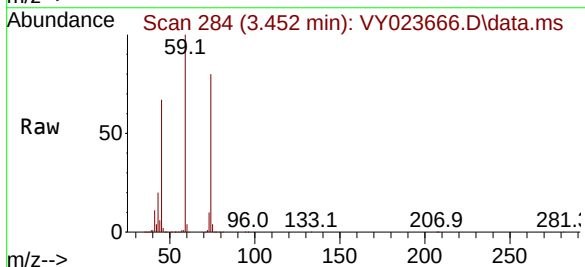
Manual Integrations  
APPROVED

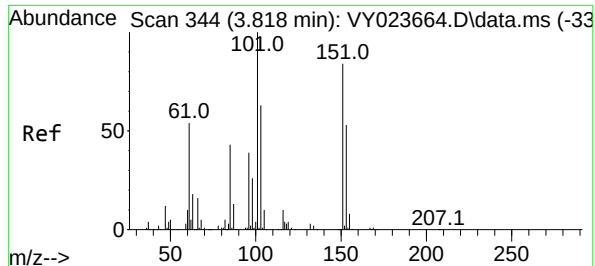
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#8  
Diethyl Ether  
Concen: 145.847 ug/l  
RT: 3.452 min Scan# 284  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 74 Resp: 408901  
Ion Ratio Lower Upper  
74 100  
45 81.4 40.6 121.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 134.049 ug/l

RT: 3.812 min Scan# 344

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion:101 Resp: 77214

Ion Ratio Lower Upper

101 100

85 43.0 34.4 51.6

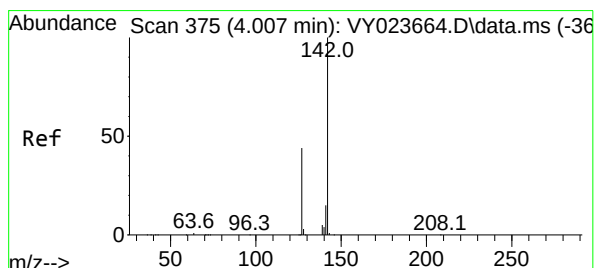
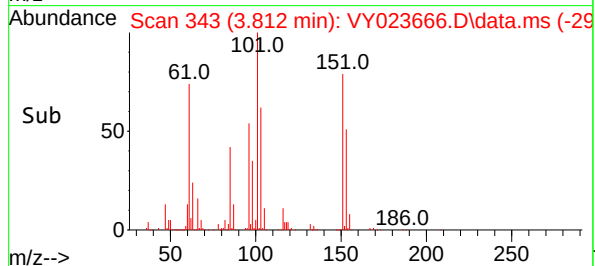
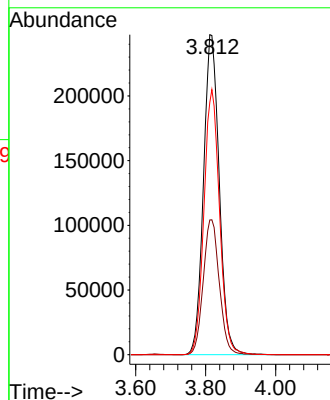
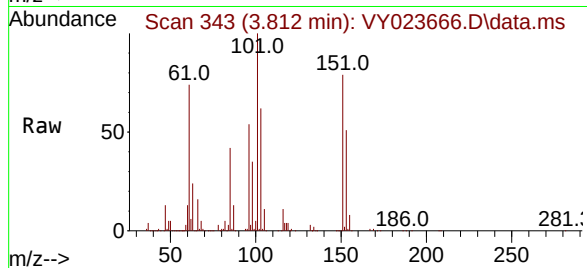
151 82.3 65.6 98.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#10

Methyl Iodide

Concen: 146.059 ug/l

RT: 4.007 min Scan# 375

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

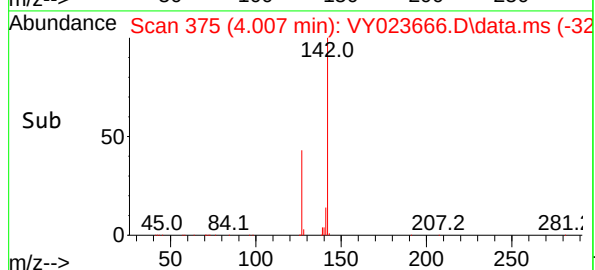
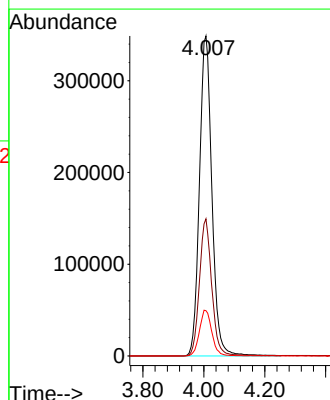
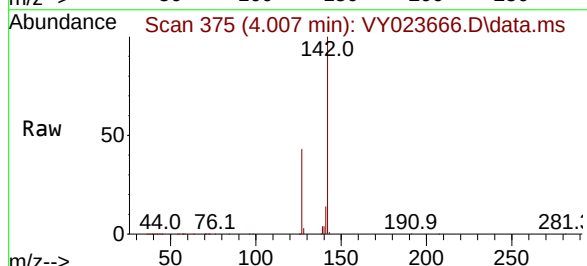
Tgt Ion:142 Resp: 993484

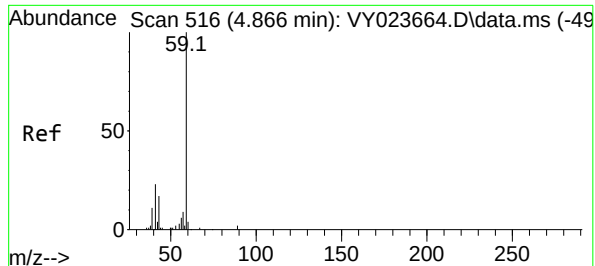
Ion Ratio Lower Upper

142 100

127 42.2 34.6 51.8

141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 729.606 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 249220

Ion Ratio Lower Upper

59 100

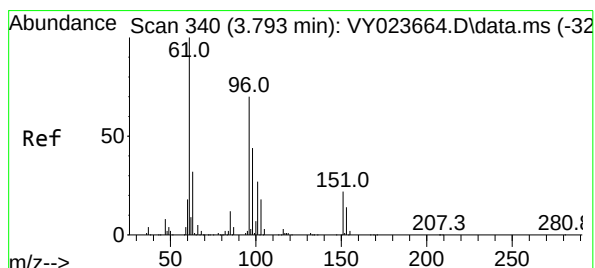
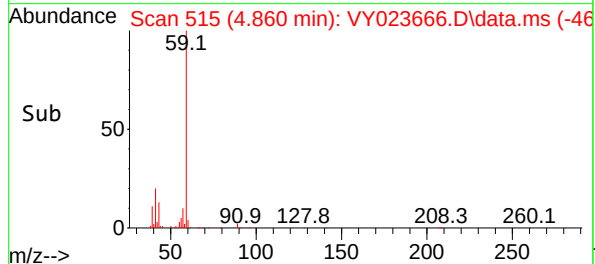
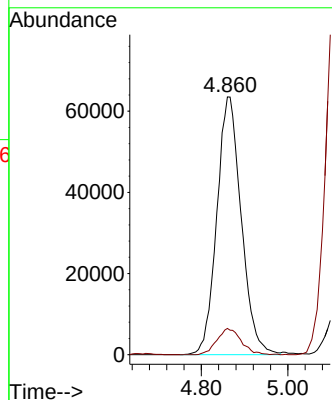
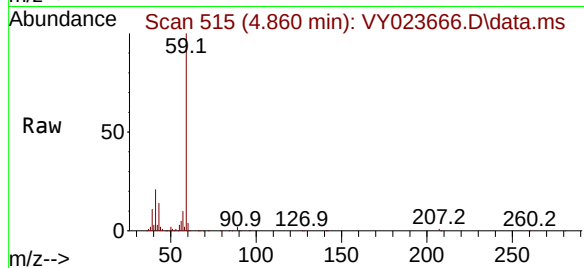
57 10.1 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 140.665 ug/l

RT: 3.787 min Scan# 339

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

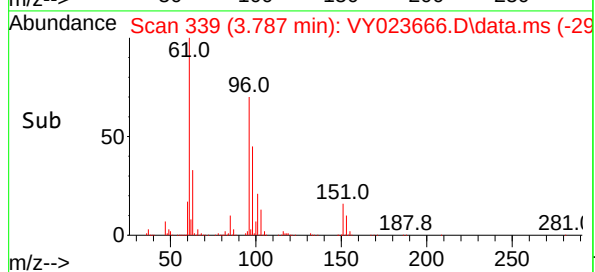
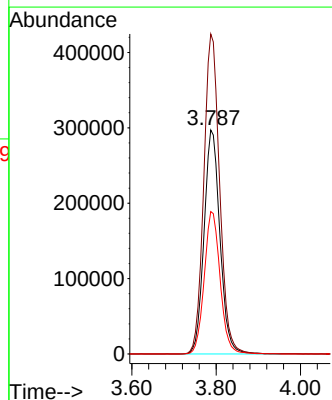
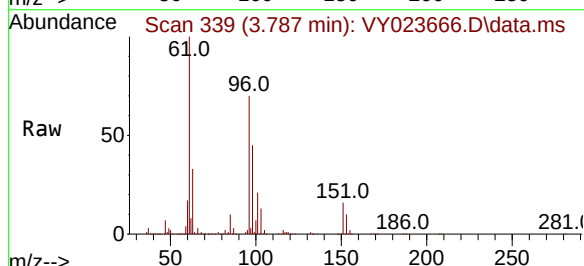
Tgt Ion: 96 Resp: 780521

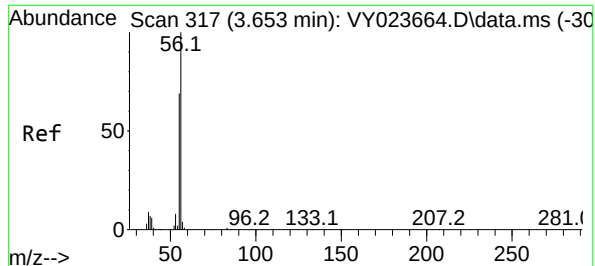
Ion Ratio Lower Upper

96 100

61 142.9 114.0 171.0

98 63.6 50.2 75.2





#13

Acrolein

Concen: 692.535 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 304058

Ion Ratio Lower Upper

56 100

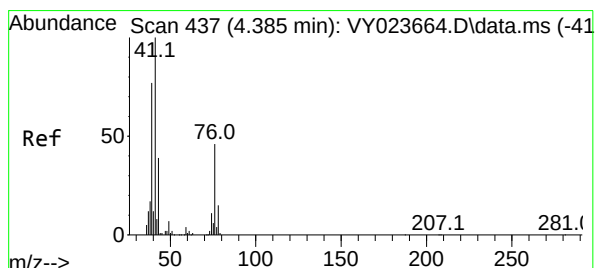
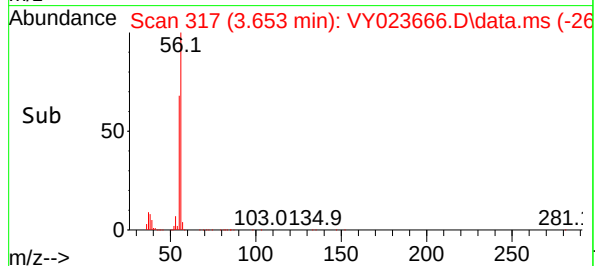
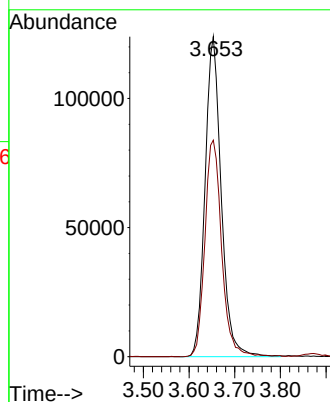
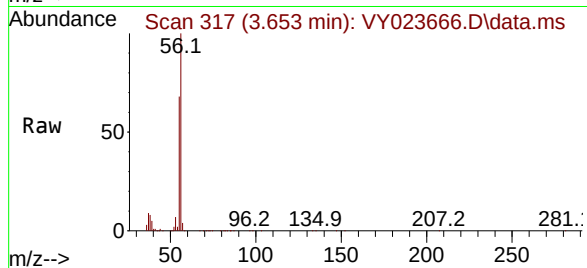
55 70.2 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 150.446 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

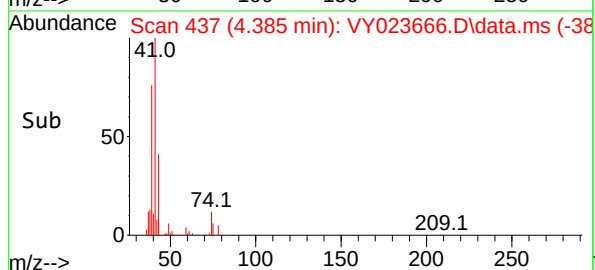
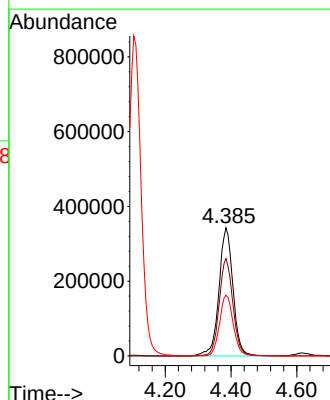
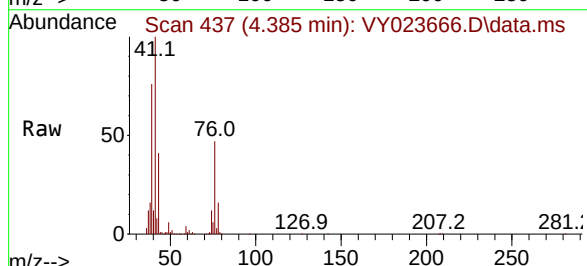
Tgt Ion: 41 Resp: 1016094

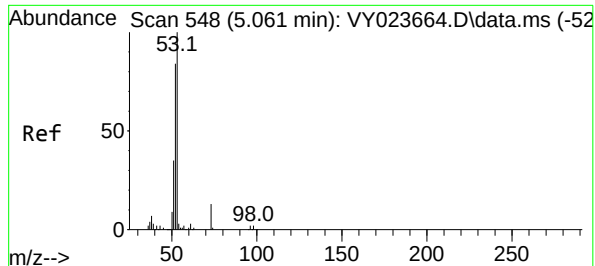
Ion Ratio Lower Upper

41 100

39 74.1 60.4 90.6

76 45.8 38.0 57.0





#15

Acrylonitrile

Concen: 769.798 ug/l

RT: 5.055 min Scan# 54

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 53 Resp: 824780

Ion Ratio Lower Upper

53 100

52 80.5 64.9 97.3

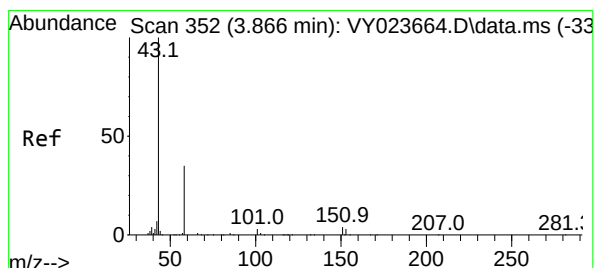
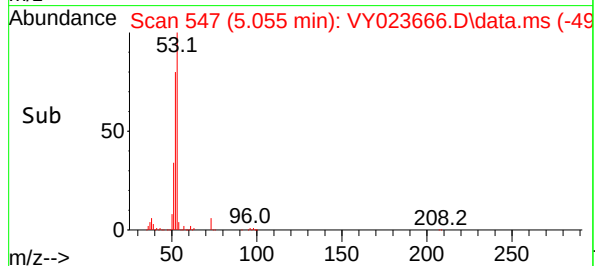
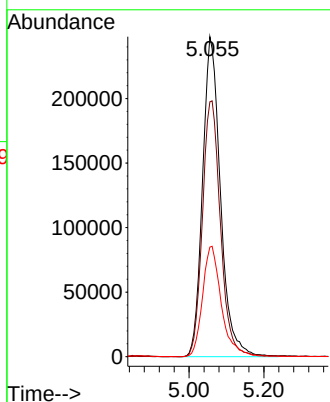
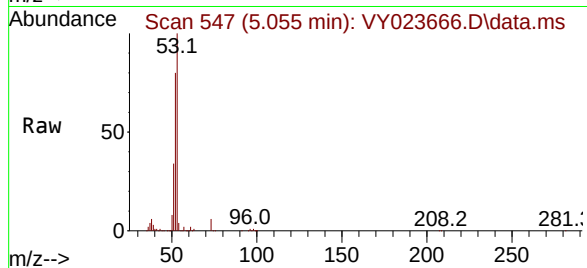
51 36.4 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 719.612 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023666.D

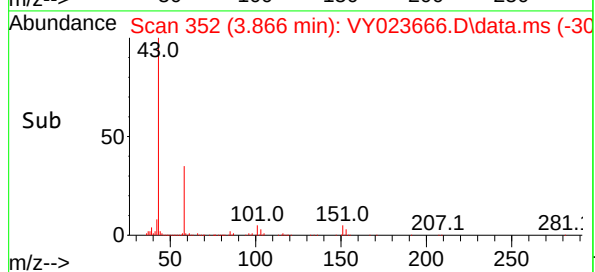
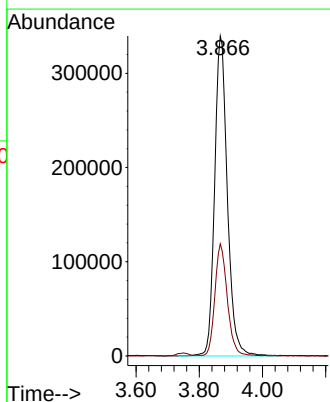
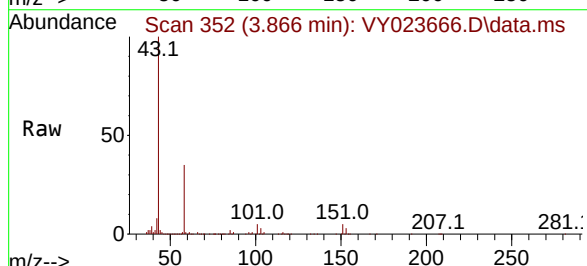
Acq: 04 Nov 2025 11:27

Tgt Ion: 43 Resp: 947595

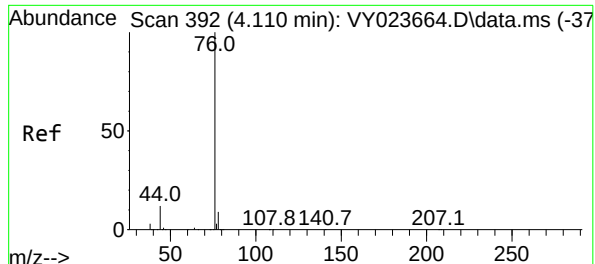
Ion Ratio Lower Upper

43 100

58 35.0 28.2 42.4







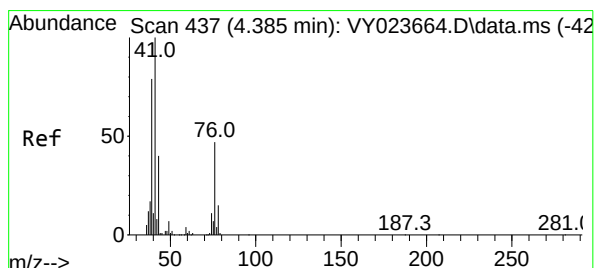
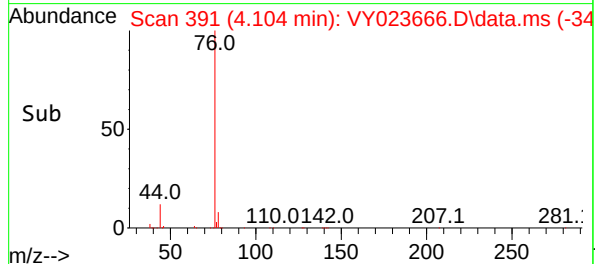
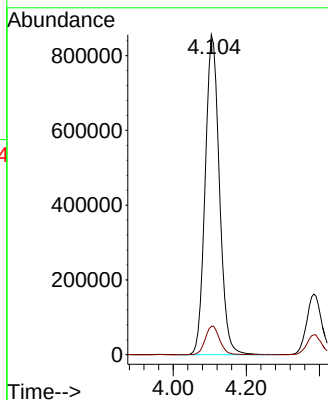
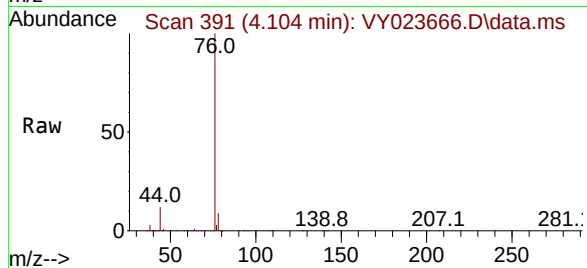
#17  
Carbon Disulfide  
Concen: 135.337 ug/l  
RT: 4.104 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Tgt Ion: 76 Resp: 230485  
Ion Ratio Lower Upper  
76 100  
78 8.9 7.1 10.7

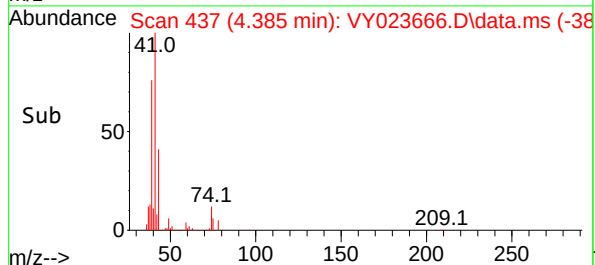
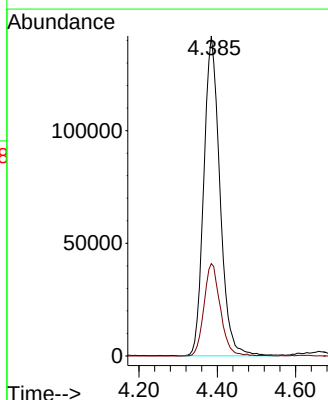
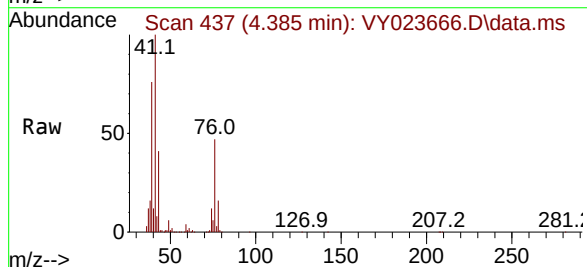
Manual Integrations  
APPROVED

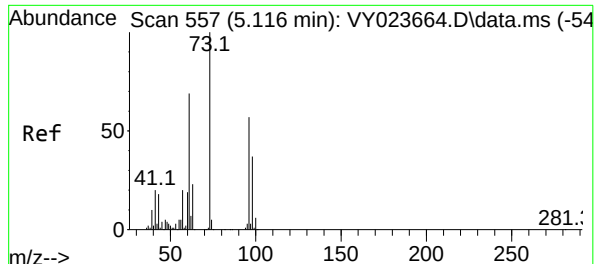
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#18  
Methyl Acetate  
Concen: 139.609 ug/l  
RT: 4.385 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

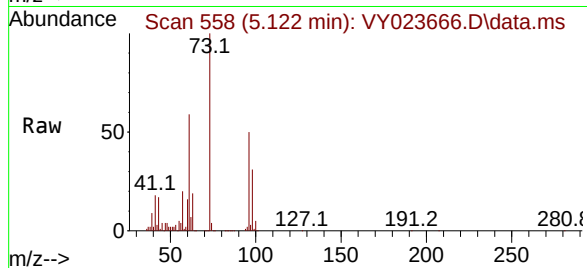
Tgt Ion: 43 Resp: 405494  
Ion Ratio Lower Upper  
43 100  
74 29.2 22.5 33.7





#19  
Methyl tert-butyl Ether  
Concen: 157.970 ug/l  
RT: 5.122 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

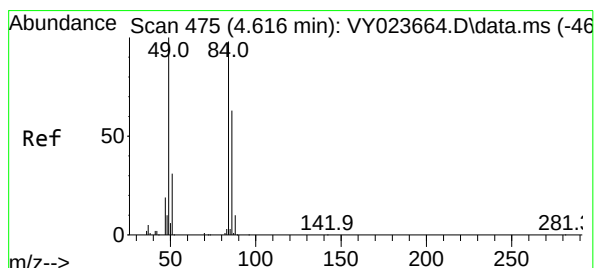
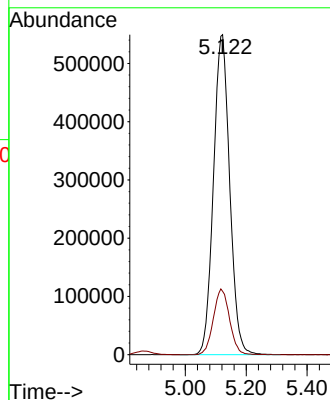
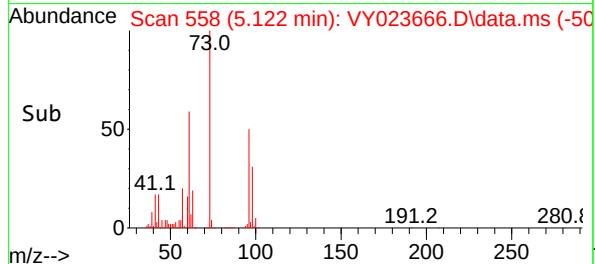
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



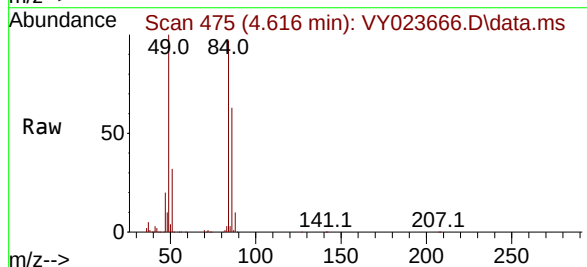
Tgt Ion: 73 Resp: 203252  
Ion Ratio Lower Upper  
73 100  
57 19.8 16.1 24.1

Manual Integrations  
APPROVED

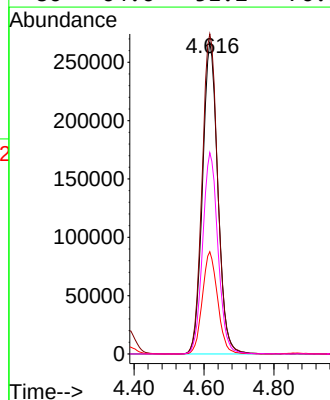
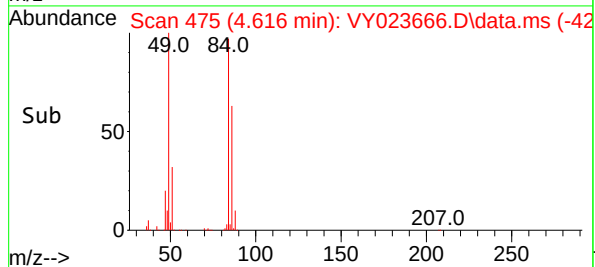
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

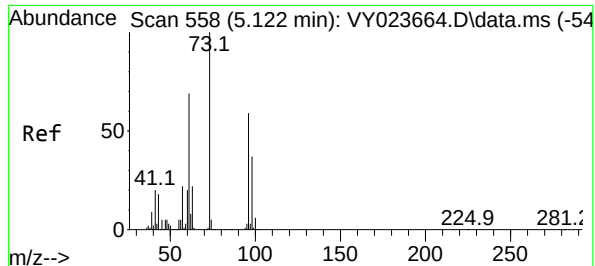


#20  
Methylene Chloride  
Concen: 127.899 ug/l  
RT: 4.616 min Scan# 475  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



Tgt Ion: 84 Resp: 813039  
Ion Ratio Lower Upper  
84 100  
49 102.6 81.5 122.3  
51 32.8 25.5 38.3  
86 64.6 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 142.587 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 892080

Ion Ratio Lower Upper

96 100

61 123.6 93.3 139.9

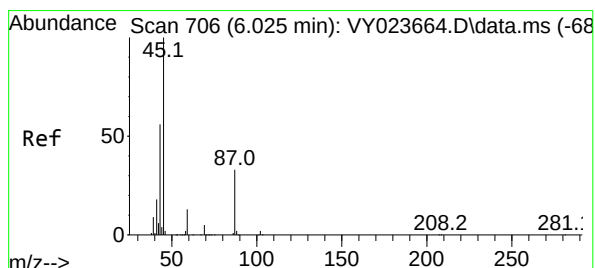
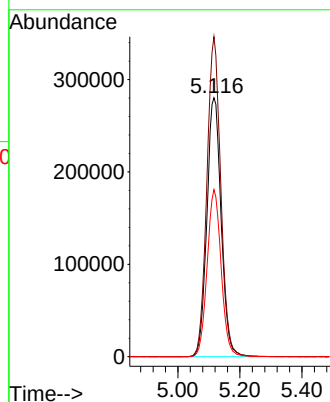
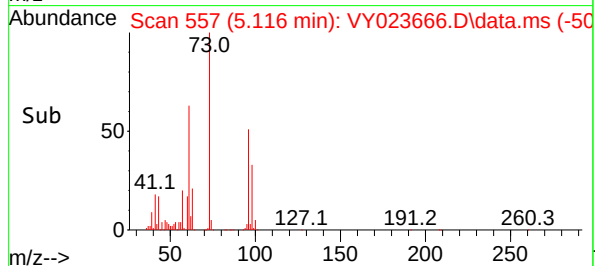
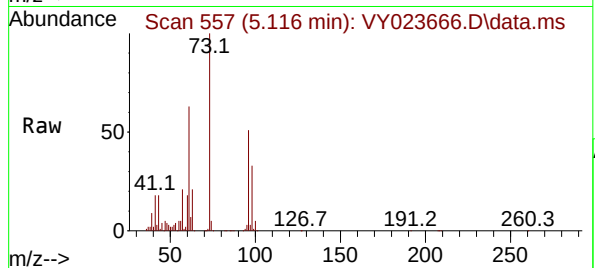
98 64.5 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 150.464 ug/l

RT: 6.019 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Tgt Ion: 45 Resp: 2264384

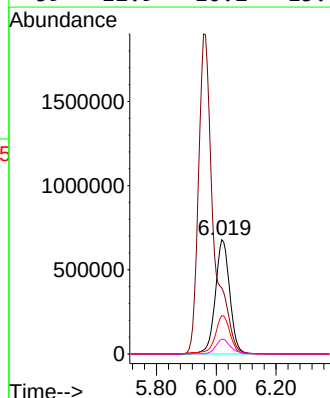
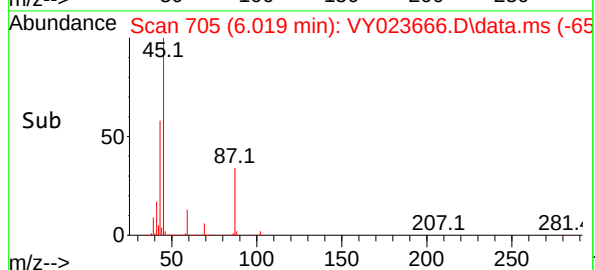
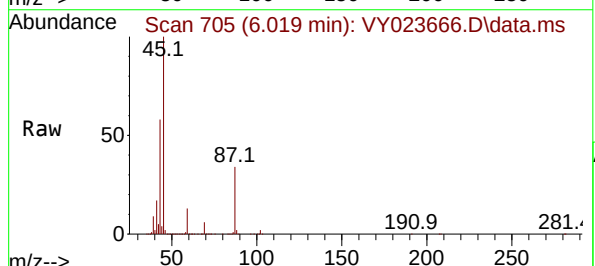
Ion Ratio Lower Upper

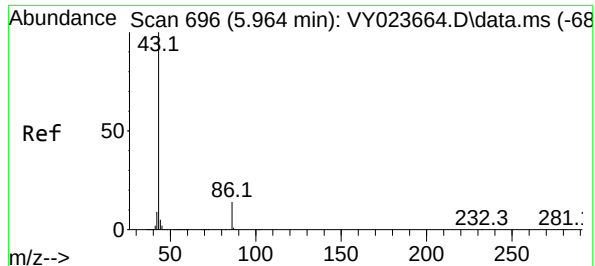
45 100

43 57.9 44.7 67.1

87 33.5 27.2 40.8

59 12.9 10.2 15.4





#23

Vinyl Acetate

Concen: 818.950 ug/l

RT: 5.958 min Scan# 696

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 657696

Ion Ratio Lower Upper

43 100

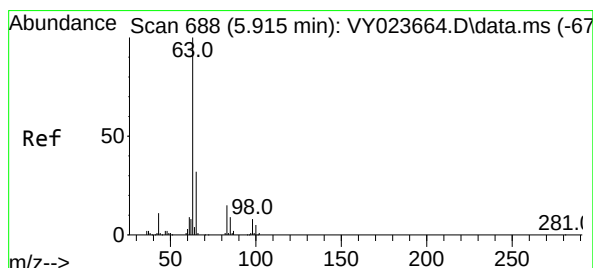
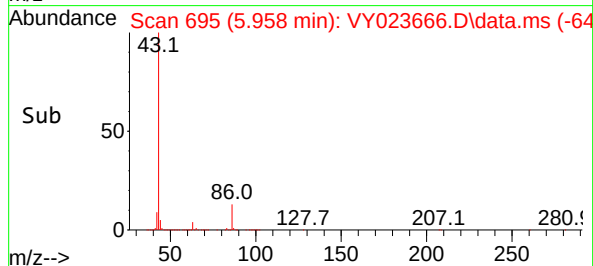
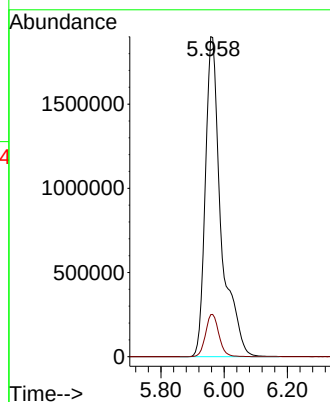
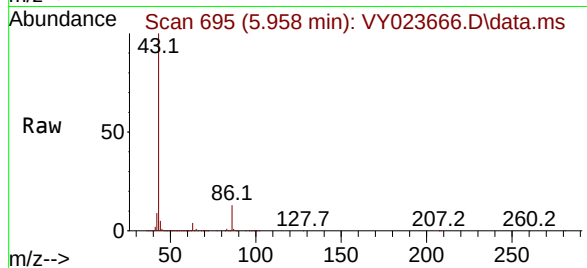
86 13.2 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 141.217 ug/l

RT: 5.915 min Scan# 688

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

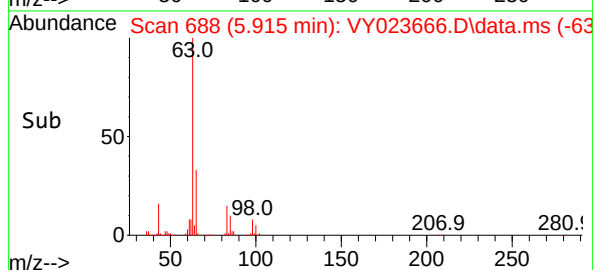
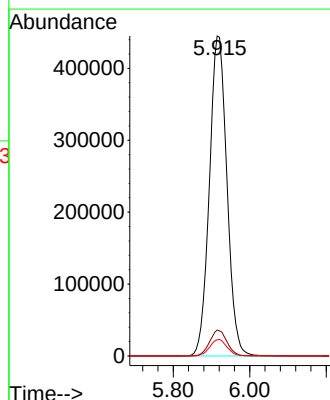
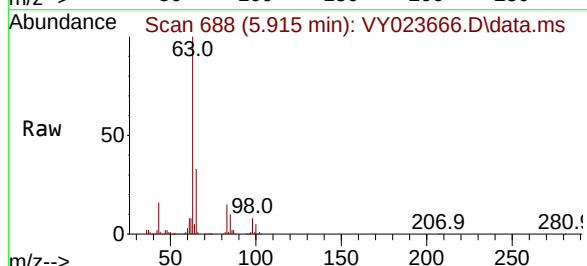
Tgt Ion: 63 Resp: 1415798

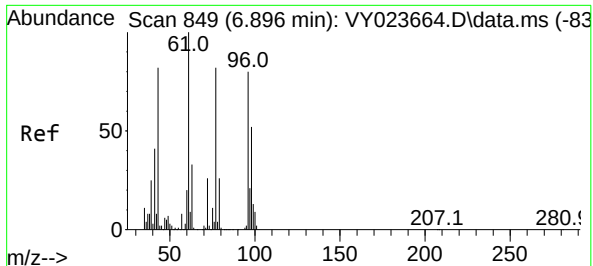
Ion Ratio Lower Upper

63 100

98 8.1 4.0 11.9

100 5.0 2.6 7.8





#25

2-Butanone

Concen: 775.579 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 118080

Ion Ratio Lower Upper

43 100

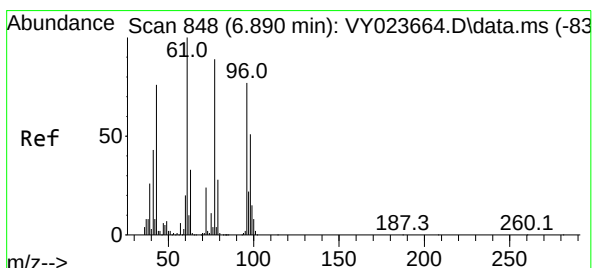
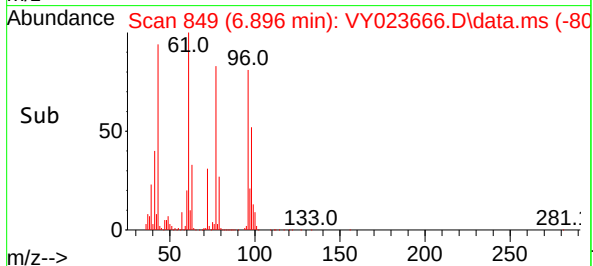
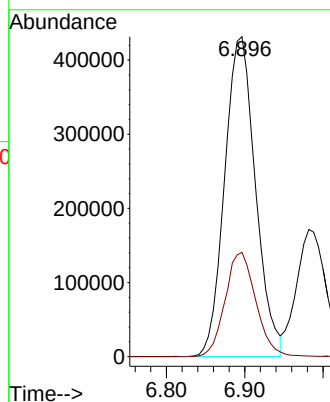
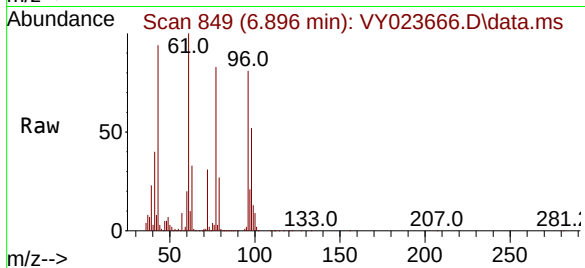
72 32.6 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 143.128 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023666.D

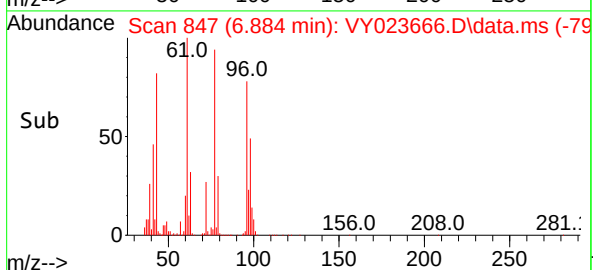
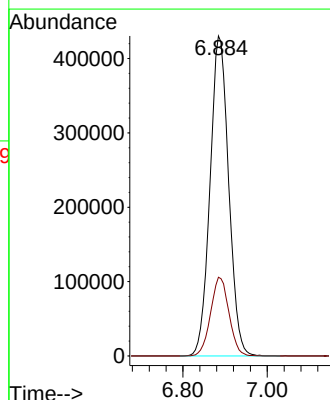
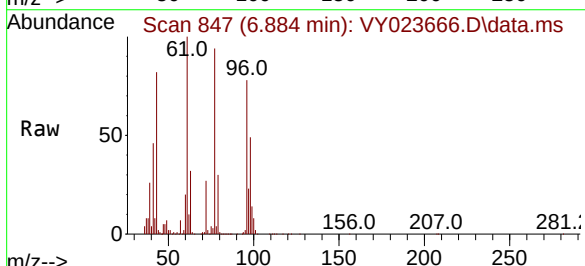
Acq: 04 Nov 2025 11:27

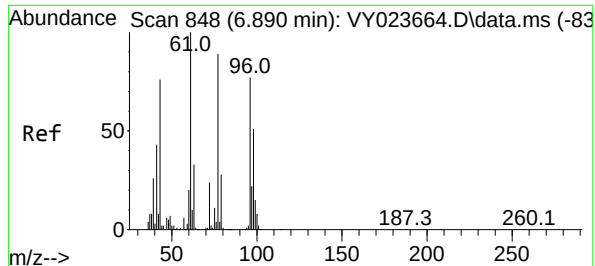
Tgt Ion: 77 Resp: 1319960

Ion Ratio Lower Upper

77 100

97 24.3 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 147.141 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1051370

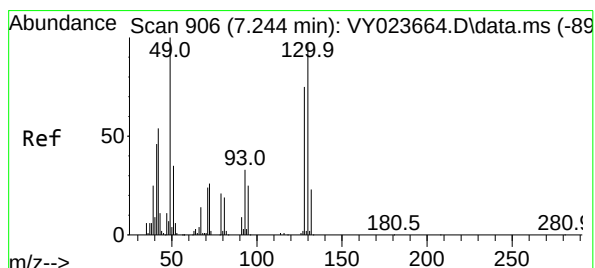
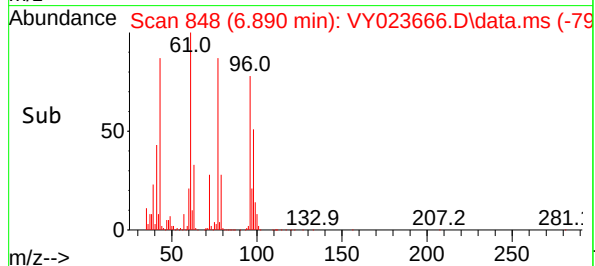
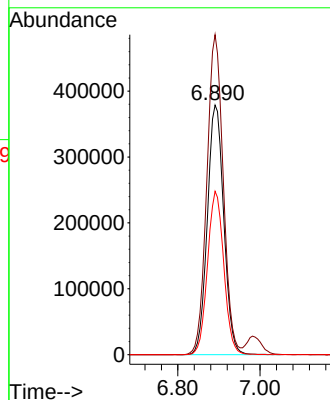
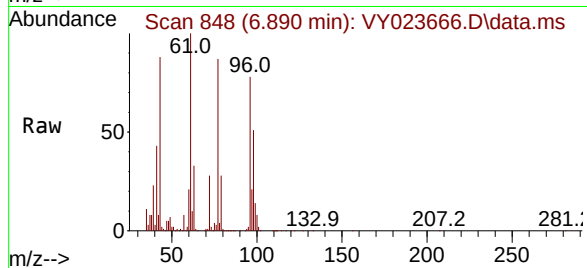
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 128.3 | 0.0   | 255.0 |
| 98  | 64.8  | 0.0   | 129.8 |

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 135.216 ug/l

RT: 7.244 min Scan# 906

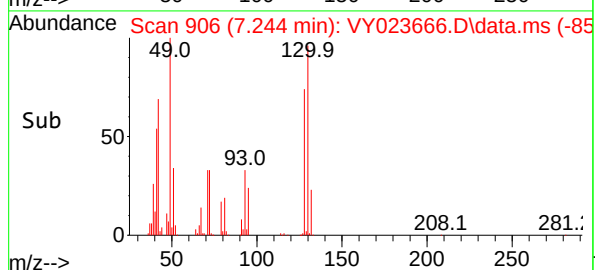
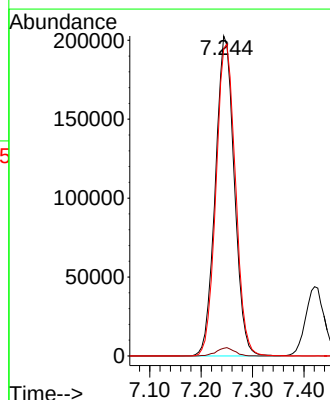
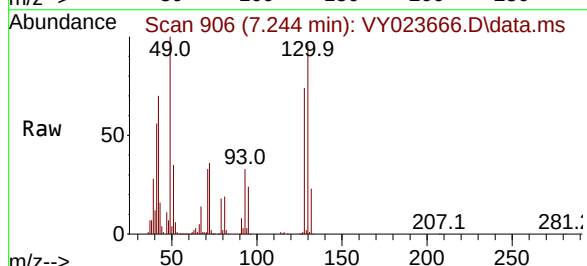
Delta R.T. 0.000 min

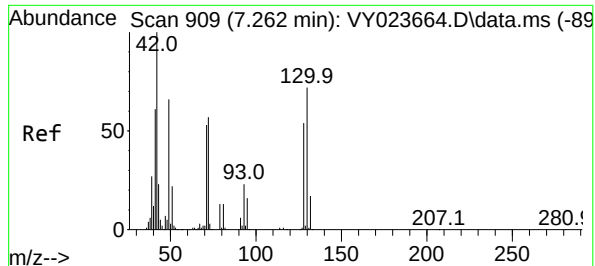
Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Tgt Ion: 49 Resp: 519064

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 2.5   | 0.0   | 5.0   |
| 130 | 99.6  | 80.1  | 120.1 |





#29

Tetrahydrofuran

Concen: 808.815 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 655809

Ion Ratio Lower Upper

42 100

72 53.9 43.4 65.2

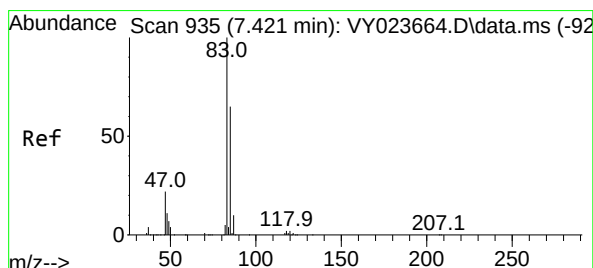
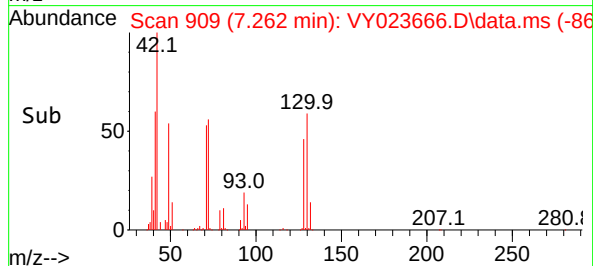
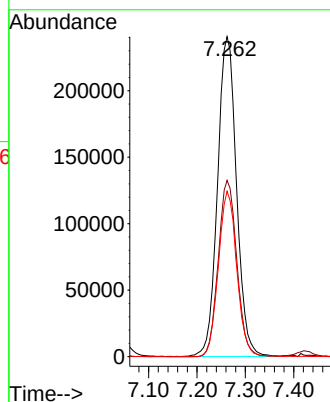
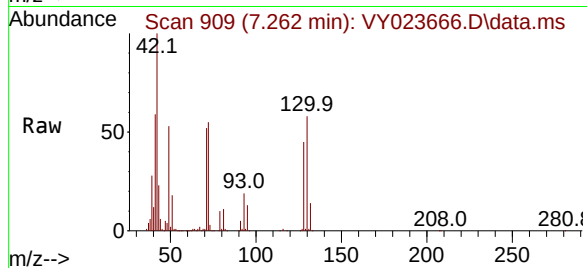
71 50.1 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 138.663 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023666.D

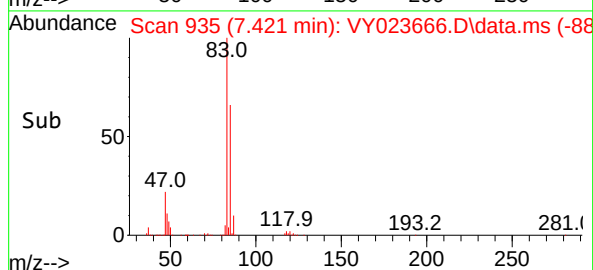
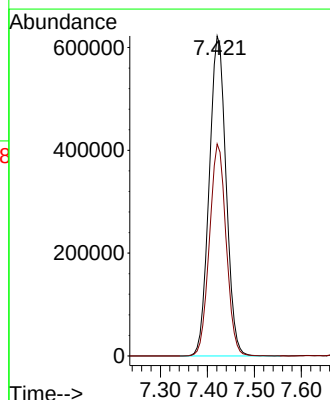
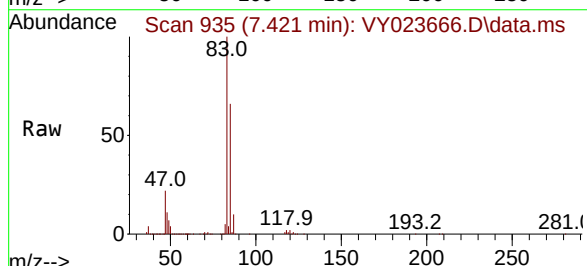
Acq: 04 Nov 2025 11:27

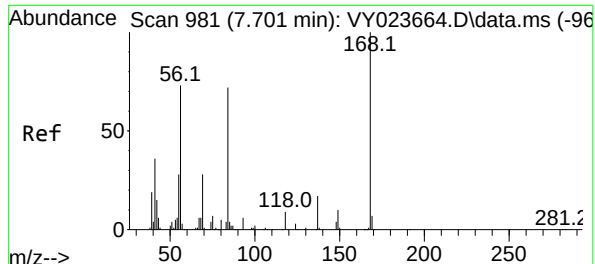
Tgt Ion: 83 Resp: 1551090

Ion Ratio Lower Upper

83 100

85 66.3 52.1 78.1





#31

Cyclohexane

Concen: 140.926 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 123043

Ion Ratio Lower Upper

56 100

69 34.8 30.5 45.7

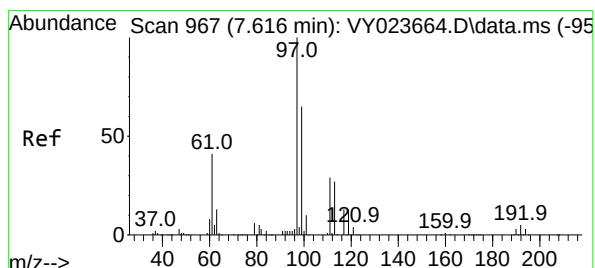
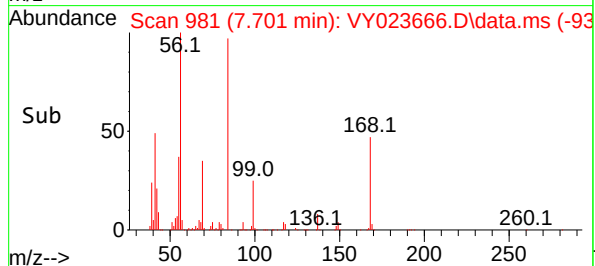
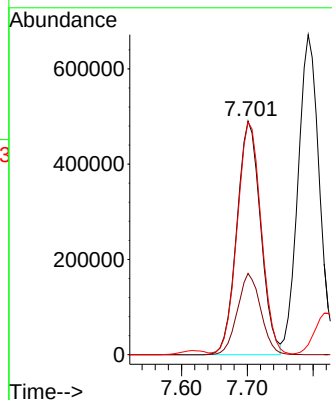
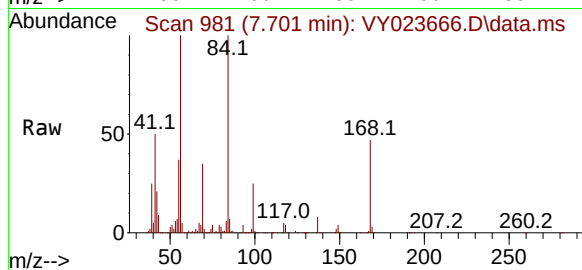
84 98.7 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 140.327 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

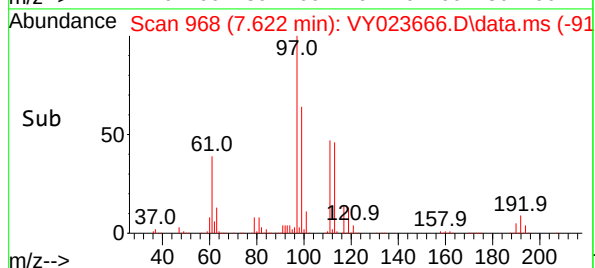
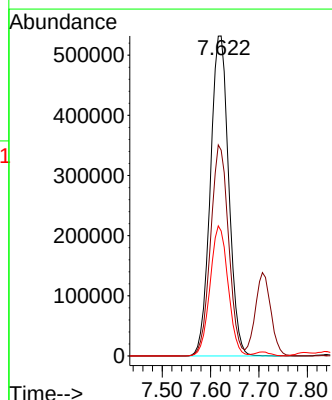
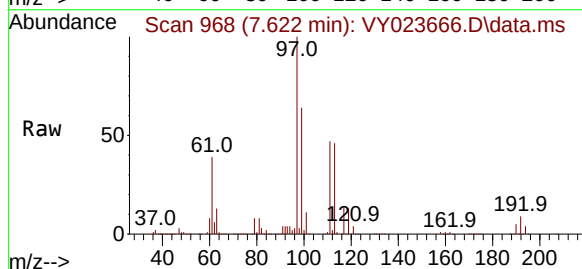
Tgt Ion: 97 Resp: 1402944

Ion Ratio Lower Upper

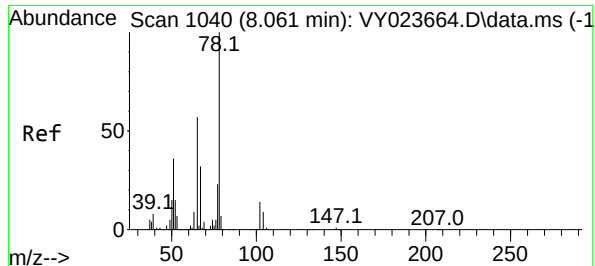
97 100

99 64.8 51.5 77.3

61 39.9 32.5 48.7







#33

1,2-Dichloroethane-d4

Concen: 143.025 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 757684

Ion Ratio Lower Upper

65 100

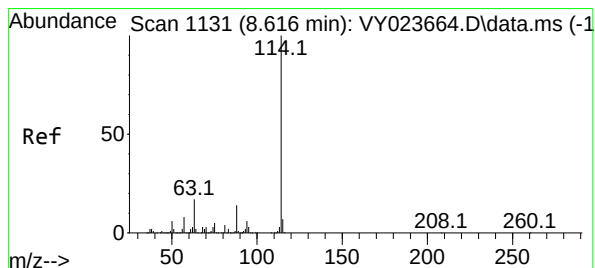
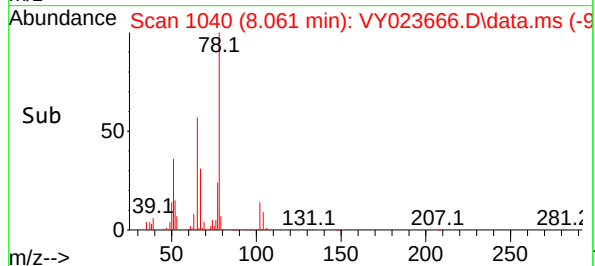
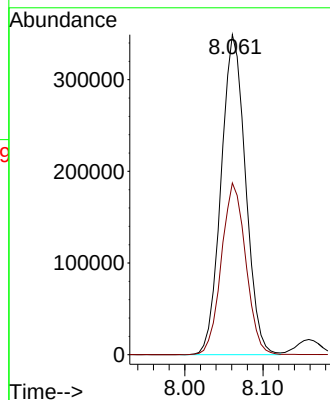
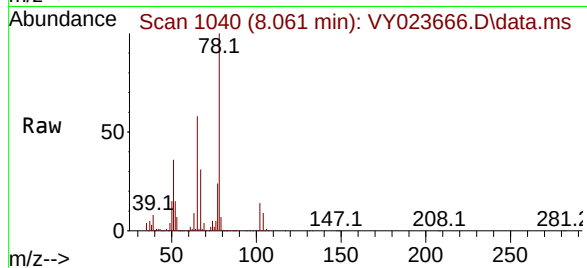
67 53.5 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

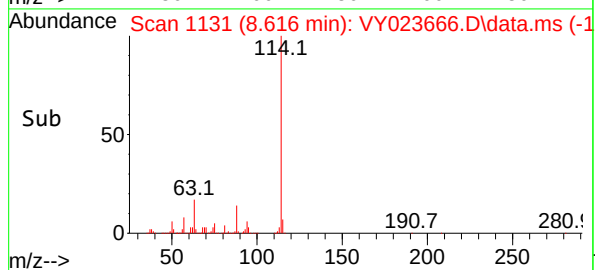
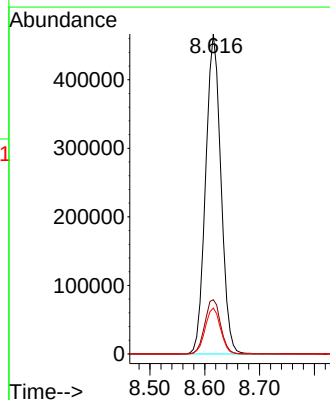
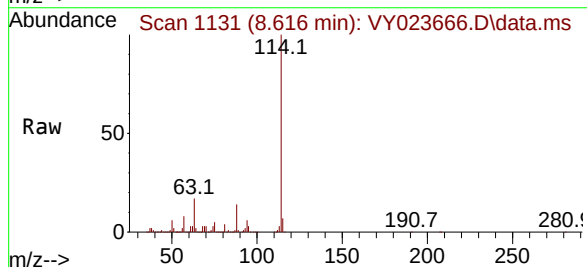
Tgt Ion:114 Resp: 901916

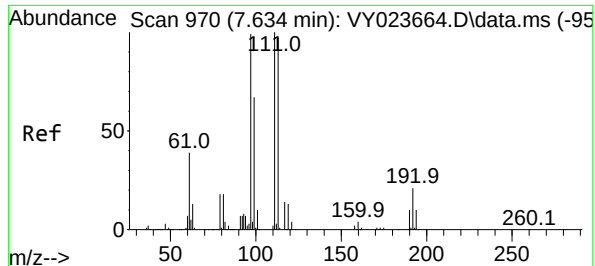
Ion Ratio Lower Upper

114 100

63 16.9 0.0 33.8

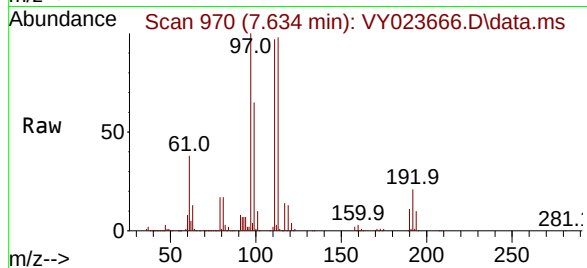
88 14.3 0.0 29.0





#35  
Dibromofluoromethane  
Concen: 147.706 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

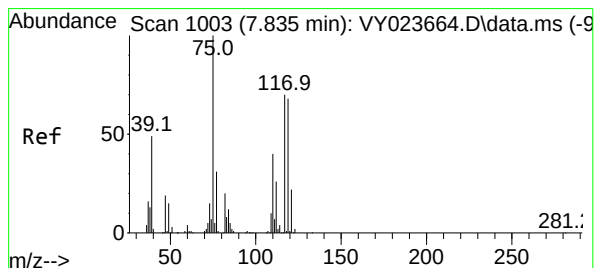
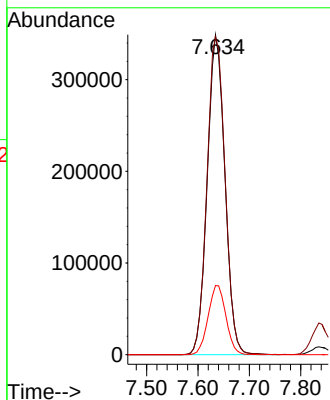
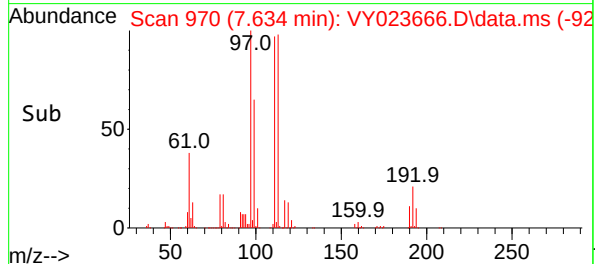
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



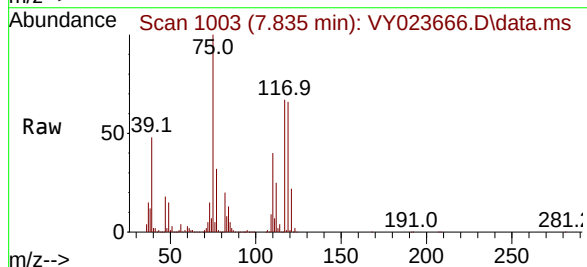
Tgt Ion:113 Resp: 83252  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.2 123.4  
192 21.8 17.3 25.9

Manual Integrations  
APPROVED

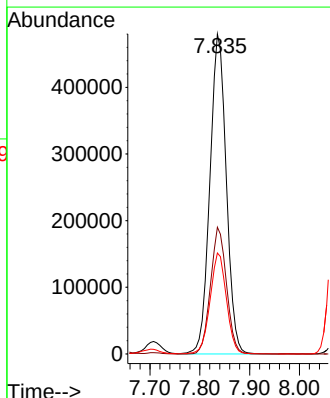
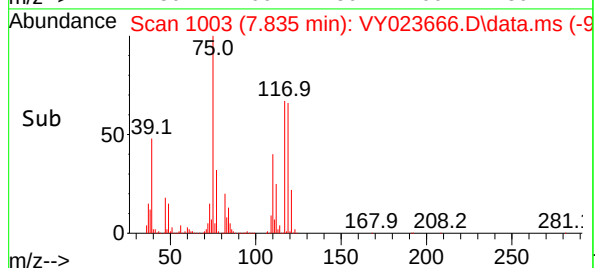
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

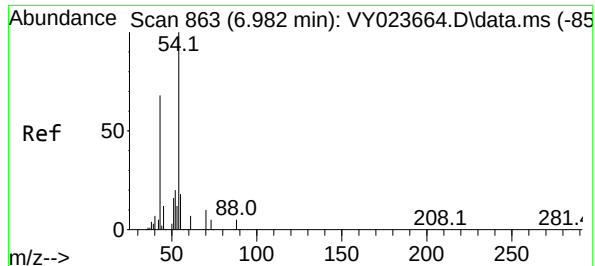


#36  
1,1-Dichloropropene  
Concen: 145.645 ug/l  
RT: 7.835 min Scan# 1003  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



Tgt Ion: 75 Resp: 1096950  
Ion Ratio Lower Upper  
75 100  
110 38.6 19.7 59.0  
77 31.4 25.2 37.8





#37

Ethyl Acetate

Concen: 159.651 ug/l

RT: 6.982 min Scan# 80

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 465489

Ion Ratio Lower Upper

43 100

61 15.0 12.4 18.6

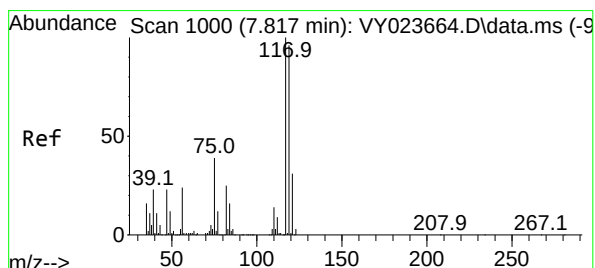
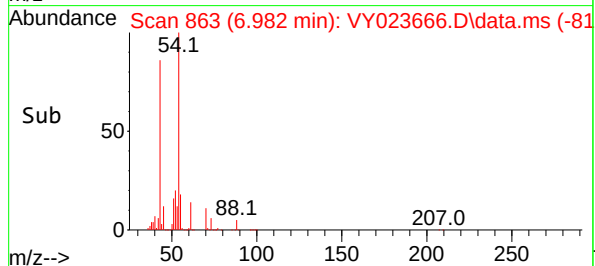
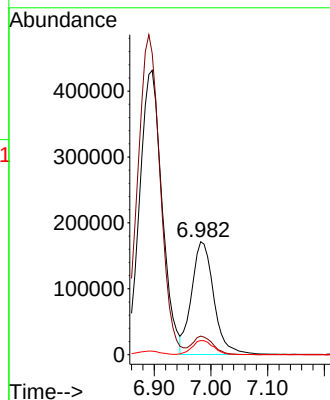
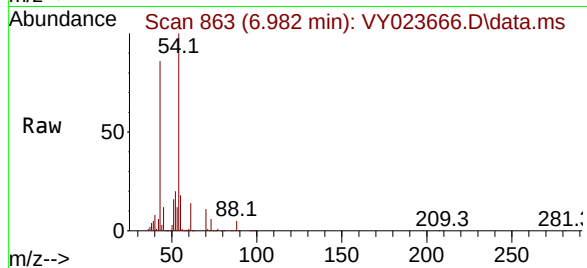
70 12.3 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 144.193 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

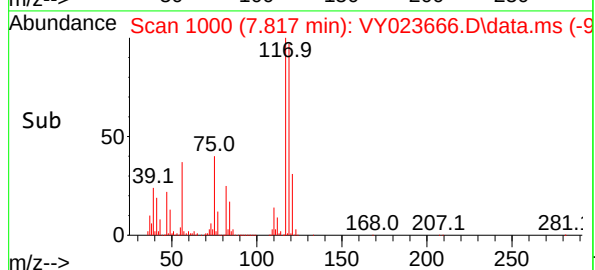
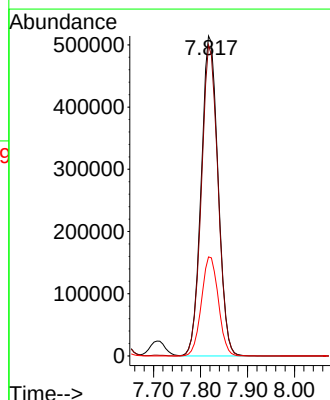
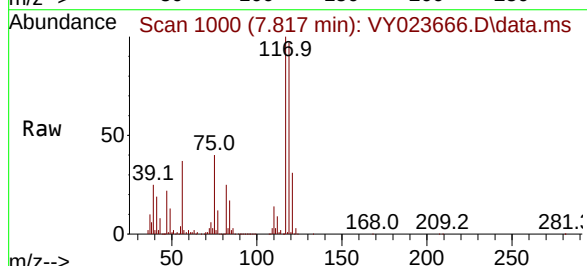
Tgt Ion:117 Resp: 1279569

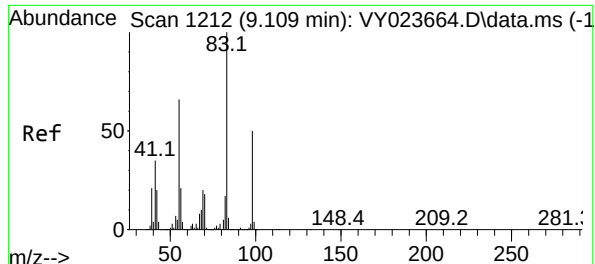
Ion Ratio Lower Upper

117 100

119 97.2 76.3 114.5

121 31.0 24.8 37.2





#39

Methylcyclohexane

Concen: 158.237 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 1522789

Ion Ratio Lower Upper

83 100

55 65.3 52.6 78.8

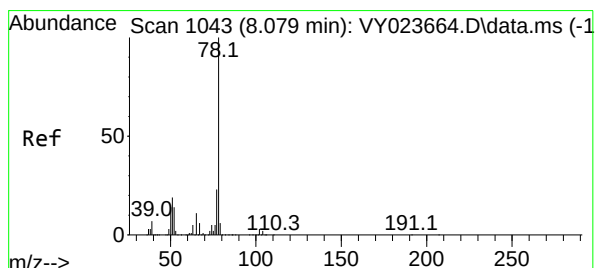
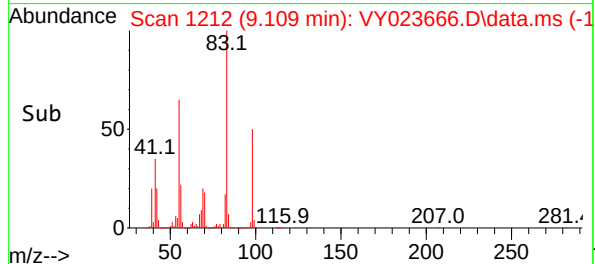
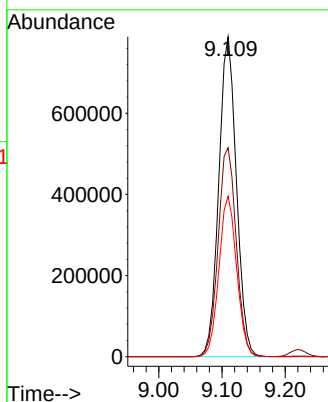
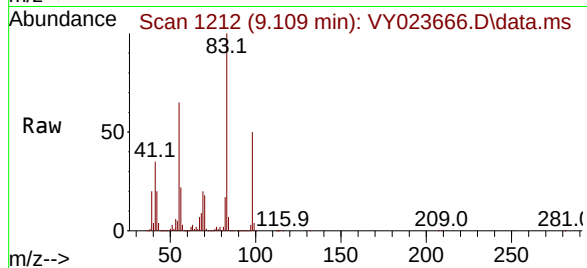
98 50.2 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 144.208 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023666.D

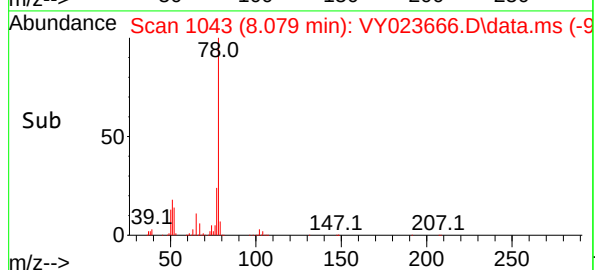
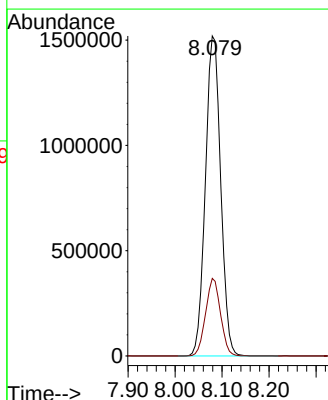
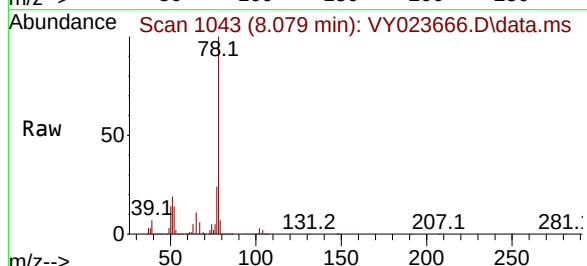
Acq: 04 Nov 2025 11:27

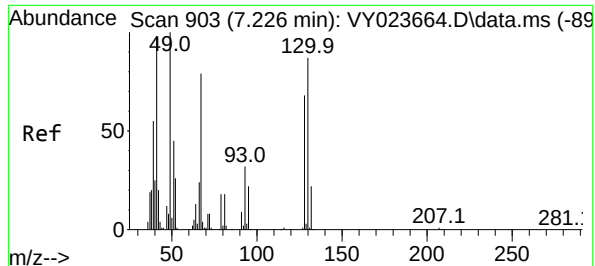
Tgt Ion: 78 Resp: 3423551

Ion Ratio Lower Upper

78 100

77 24.2 18.8 28.2





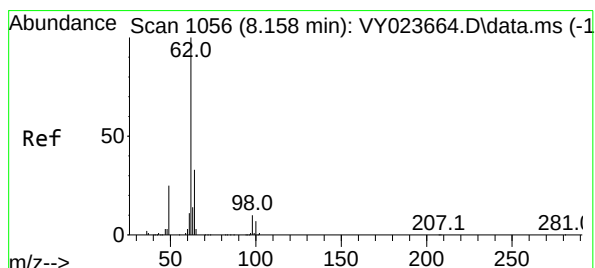
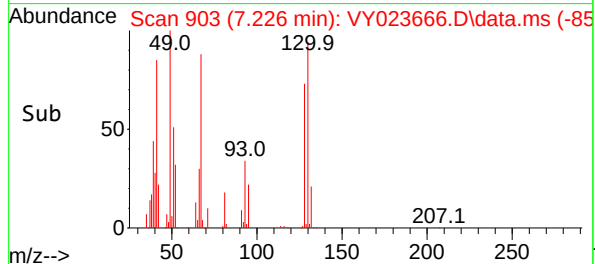
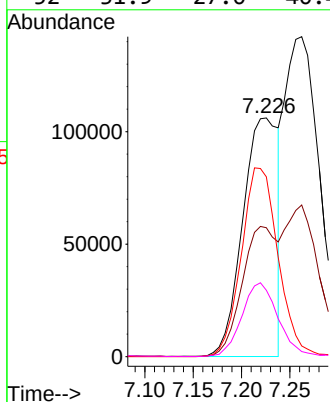
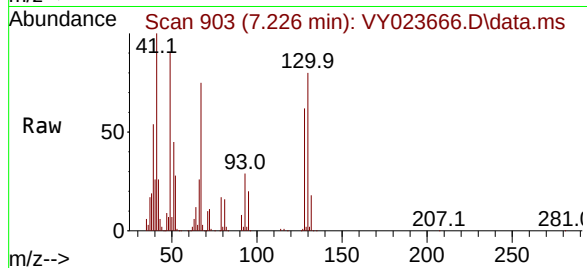
#41  
Methacrylonitrile  
Concen: 173.645 ug/l  
RT: 7.226 min Scan# 903  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Tgt Ion: 41 Resp: 27005  
Ion Ratio Lower Upper  
41 100  
39 53.9 38.6 57.8  
67 82.8 71.3 106.9  
52 31.9 27.0 40.4

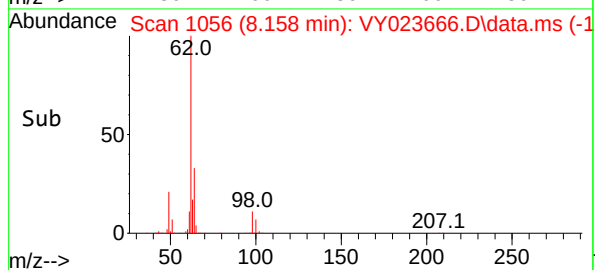
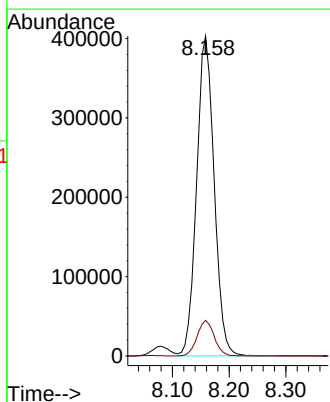
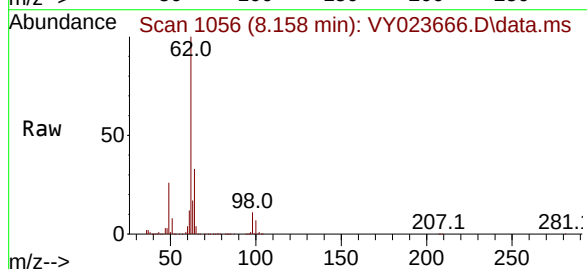
Manual Integrations  
APPROVED

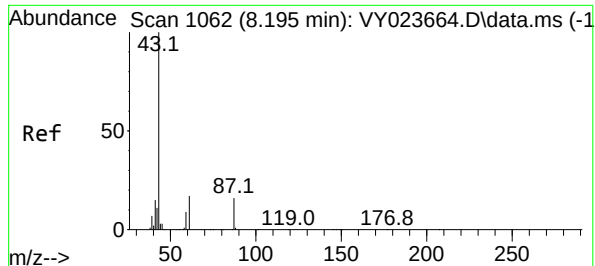
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#42  
1,2-Dichloroethane  
Concen: 144.018 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 62 Resp: 864999  
Ion Ratio Lower Upper  
62 100  
98 10.9 0.0 21.0





#43

Isopropyl Acetate

Concen: 167.105 ug/l

RT: 8.195 min Scan# 1062

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 91544

Ion Ratio Lower Upper

43 100

61 22.9 18.2 27.2

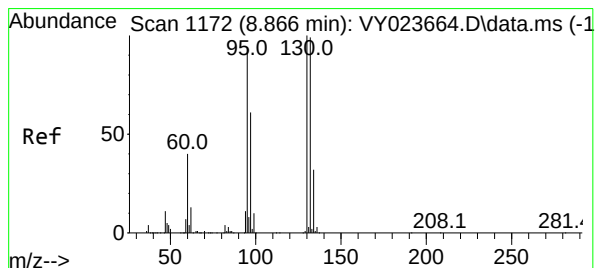
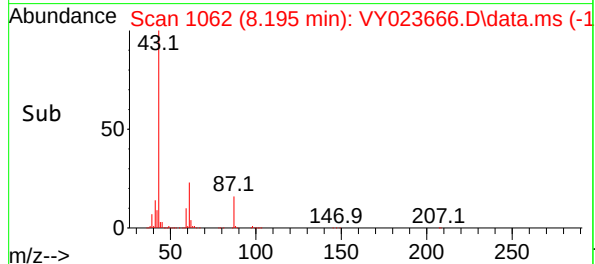
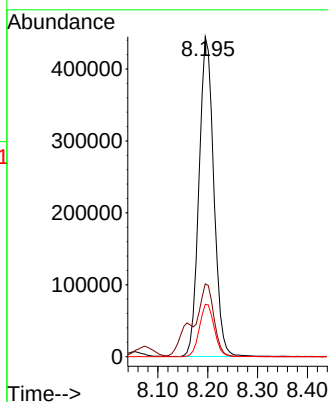
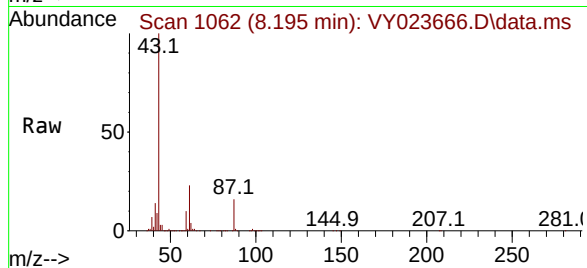
87 16.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 142.056 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023666.D

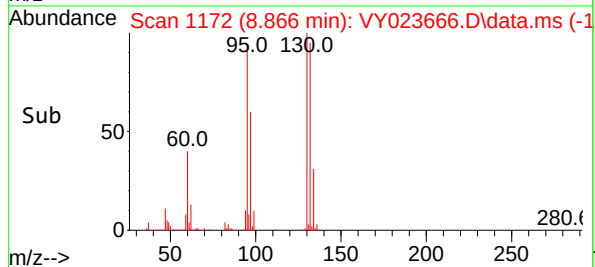
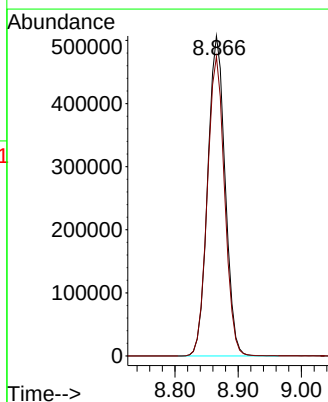
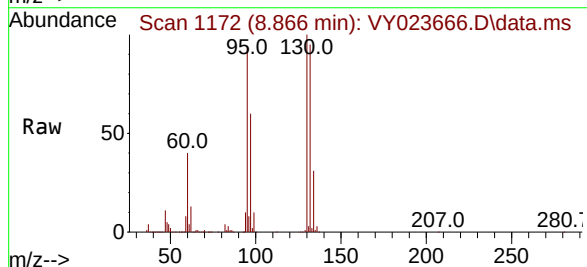
Acq: 04 Nov 2025 11:27

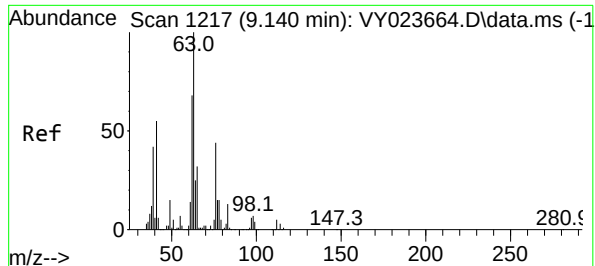
Tgt Ion:130 Resp: 968647

Ion Ratio Lower Upper

130 100

95 93.5 0.0 187.0





#45

1,2-Dichloropropane

Concen: 146.035 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 76515

Ion Ratio Lower Upper

63 100

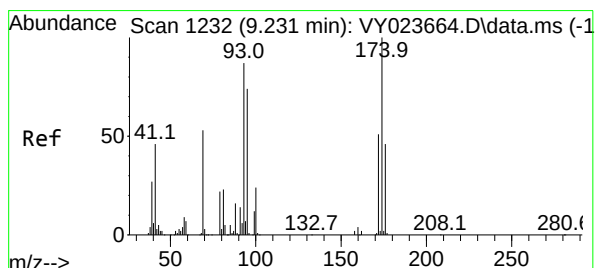
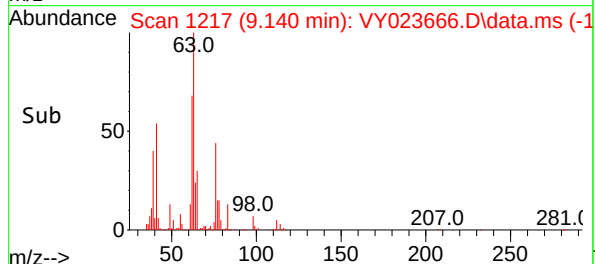
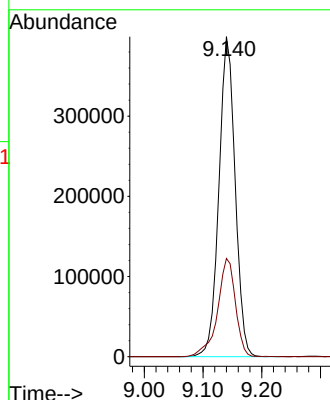
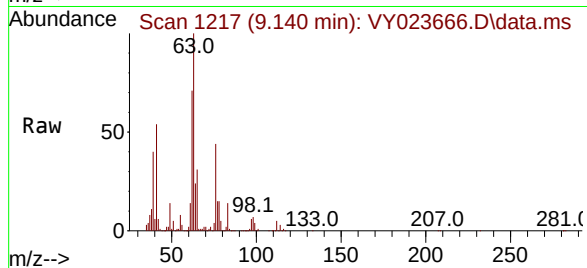
65 30.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 147.004 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

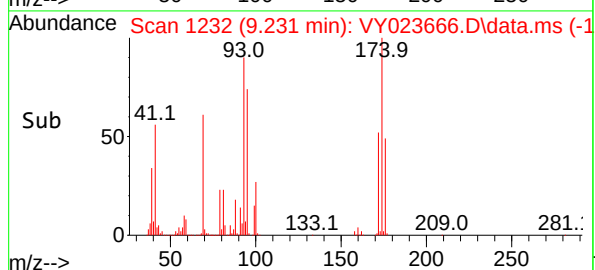
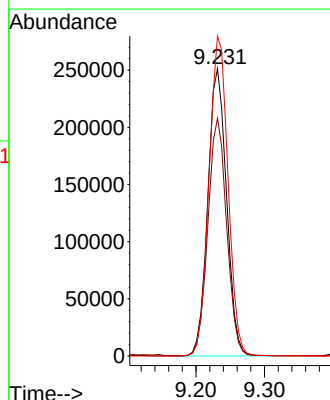
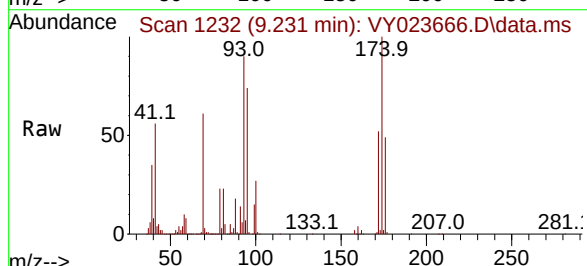
Tgt Ion: 93 Resp: 477241

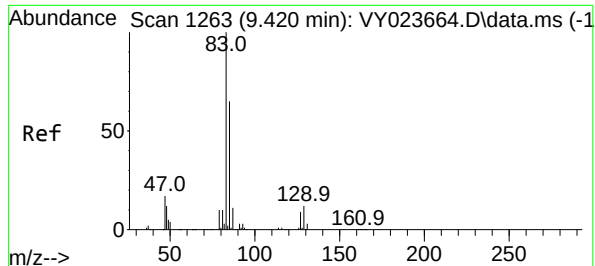
Ion Ratio Lower Upper

93 100

95 82.9 67.4 101.2

174 112.8 89.4 134.0





#47

Bromodichloromethane

Concen: 145.820 ug/l

RT: 9.420 min Scan# 1263

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 1193540

Ion Ratio Lower Upper

83 100

85 64.8 52.1 78.1

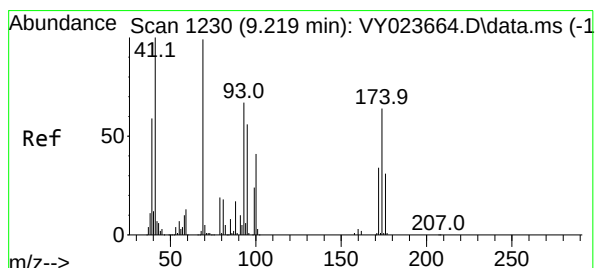
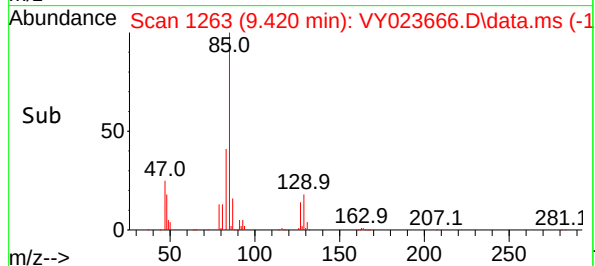
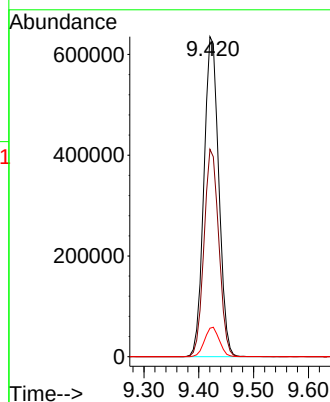
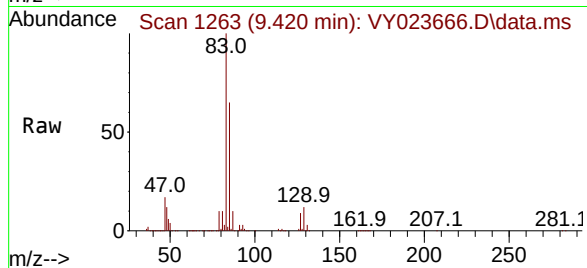
127 8.9 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 176.551 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

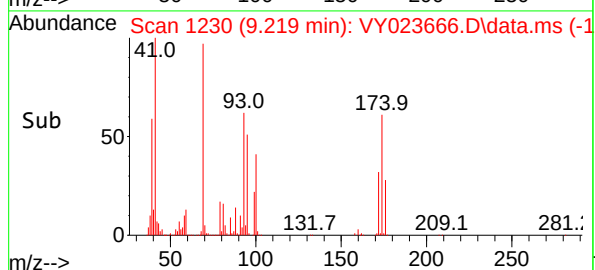
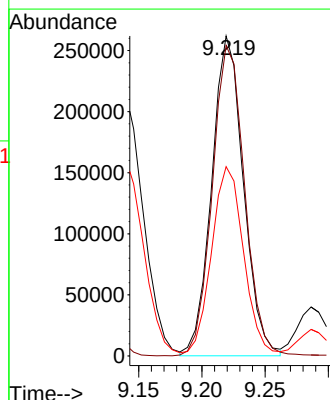
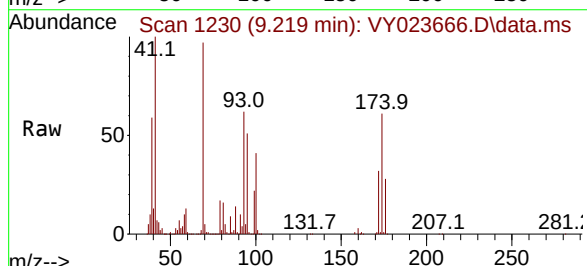
Tgt Ion: 41 Resp: 456960

Ion Ratio Lower Upper

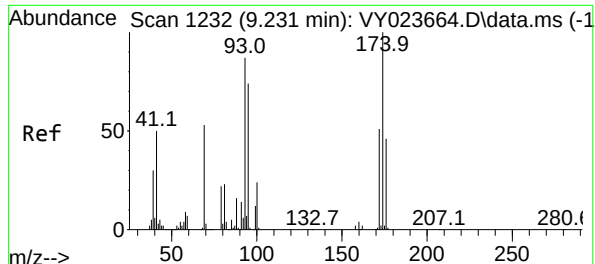
41 100

69 98.8 80.2 120.2

39 58.1 47.4 71.0







#49

1,4-Dioxane

Concen: 3311.077 ug/l

RT: 9.225 min Scan# 1232

Delta R.T. -0.006 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 110000

Ion Ratio Lower Upper

88 100

43 29.1 22.0 33.0

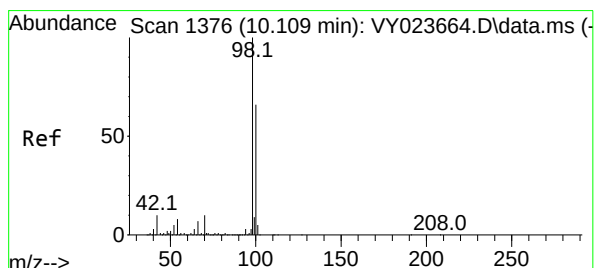
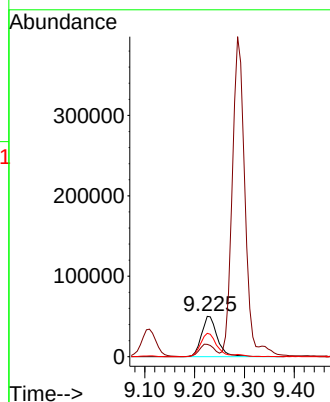
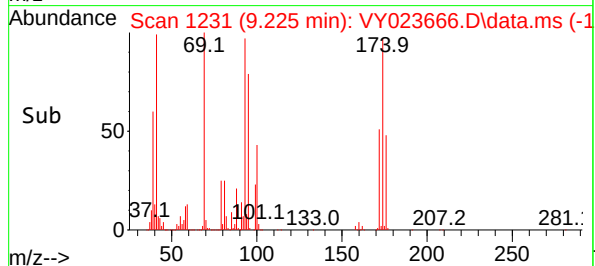
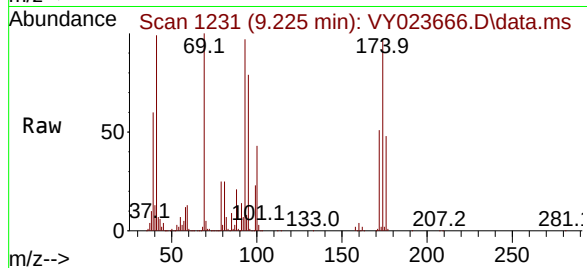
58 58.8 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 149.364 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023666.D

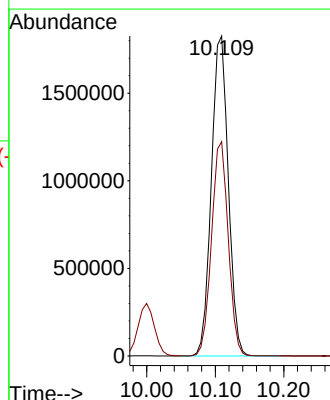
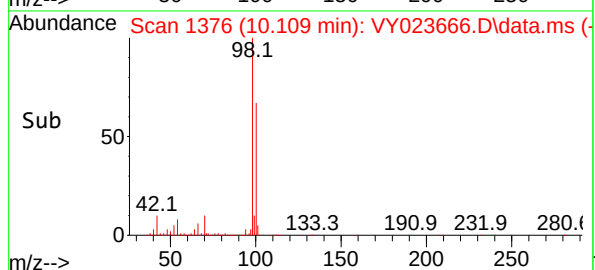
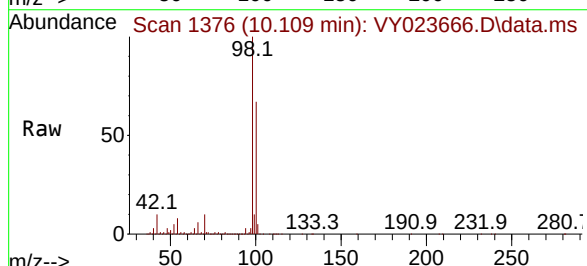
Acq: 04 Nov 2025 11:27

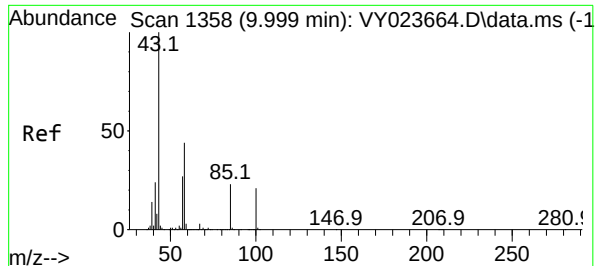
Tgt Ion: 98 Resp: 3136015

Ion Ratio Lower Upper

98 100

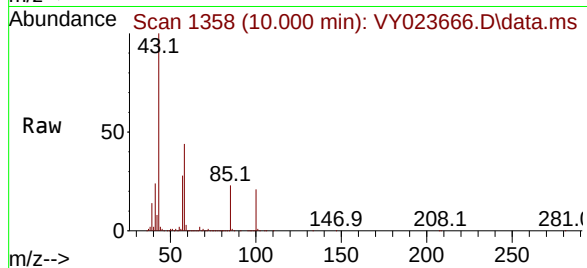
100 66.2 52.7 79.1





#51  
4-Methyl-2-Pentanone  
Concen: 836.491 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

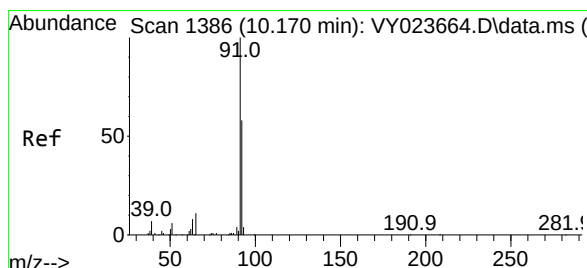
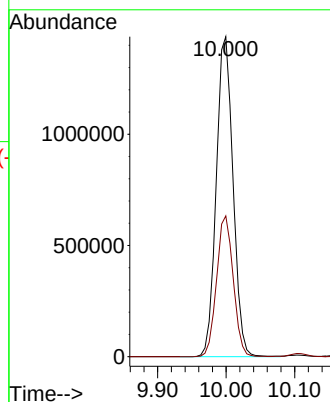
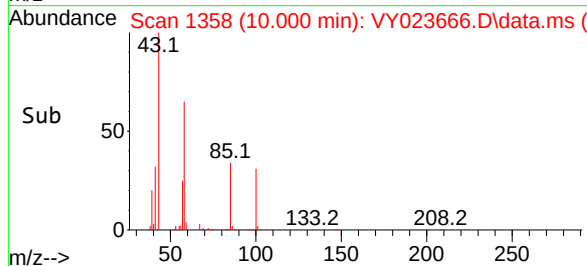
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion: 43 Resp: 2437010  
Ion Ratio Lower Upper  
43 100  
58 43.8 34.8 52.2

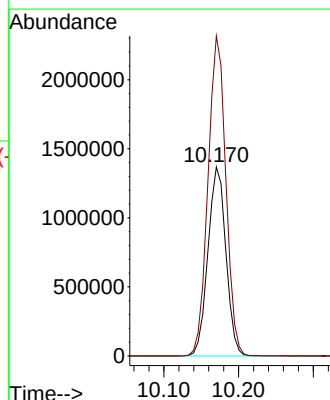
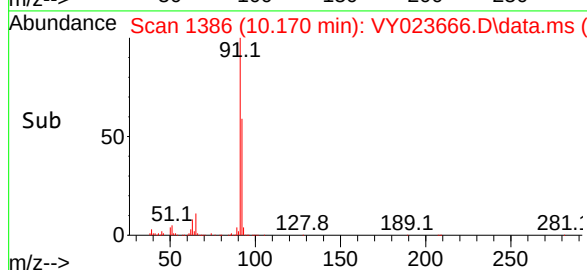
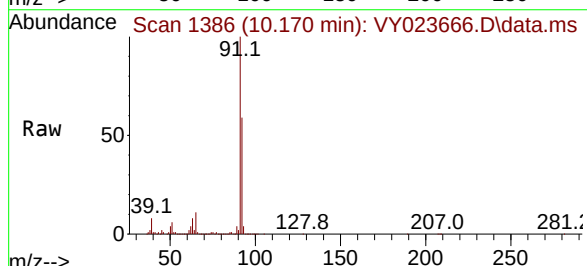
Manual Integrations  
APPROVED

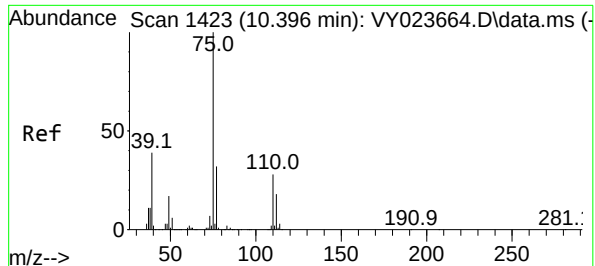
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 150.304 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 92 Resp: 2278105  
Ion Ratio Lower Upper  
92 100  
91 168.7 137.8 206.8





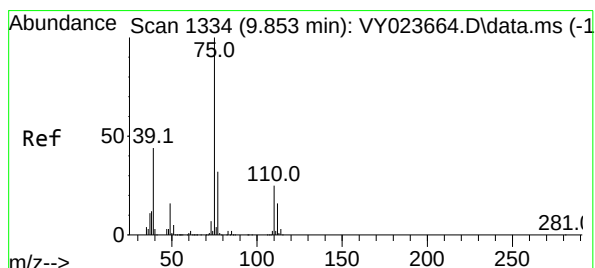
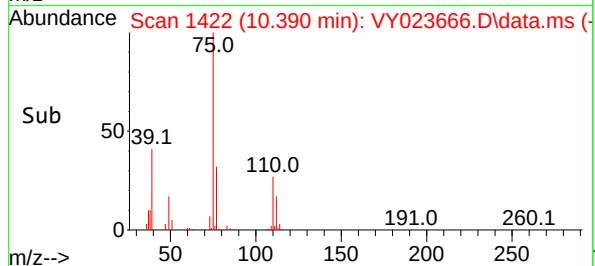
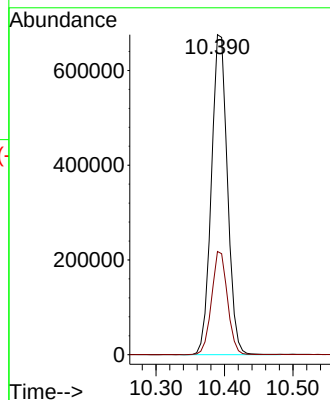
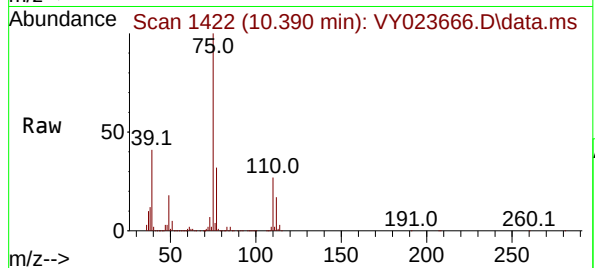
#53  
t-1,3-Dichloropropene  
Concen: 158.988 ug/l  
RT: 10.390 min Scan# 1422  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

Tgt Ion: 75 Resp: 1101094  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.6 38.4

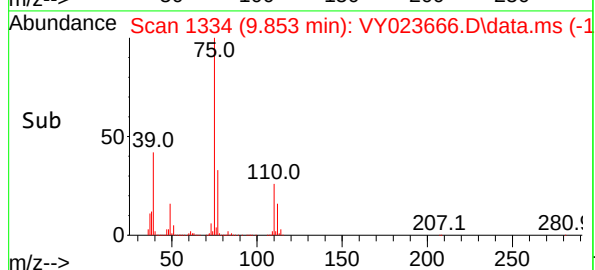
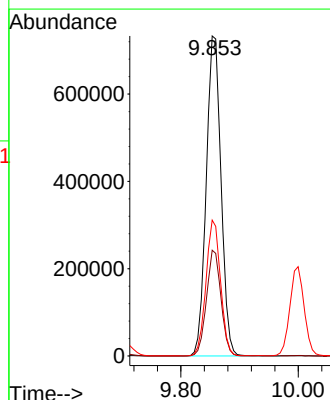
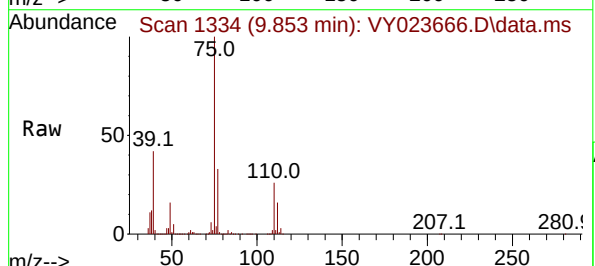
Manual Integrations  
APPROVED

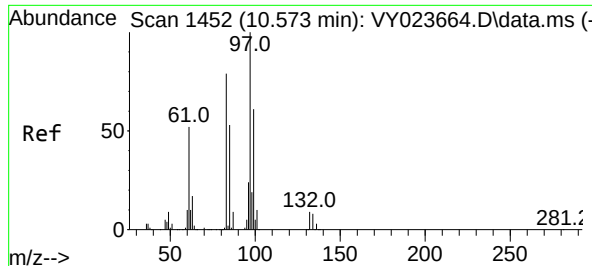
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#54  
cis-1,3-Dichloropropene  
Concen: 154.422 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 75 Resp: 1281333  
Ion Ratio Lower Upper  
75 100  
77 33.1 25.7 38.5  
39 42.4 34.9 52.3





#55

1,1,2-Trichloroethane

Concen: 146.967 ug/l

RT: 10.573 min Scan# 1452

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 97 Resp: 63761

Ion Ratio Lower Upper

97 100

83 81.9 63.3 94.9

85 53.5 42.4 63.6

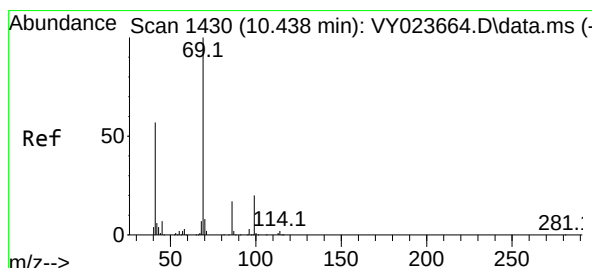
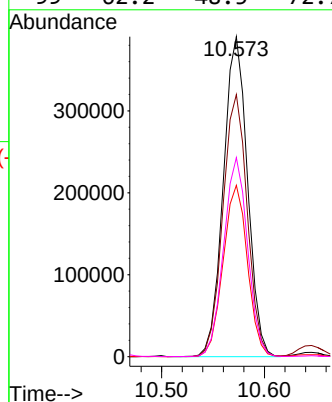
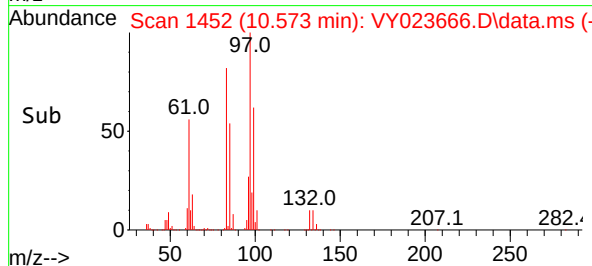
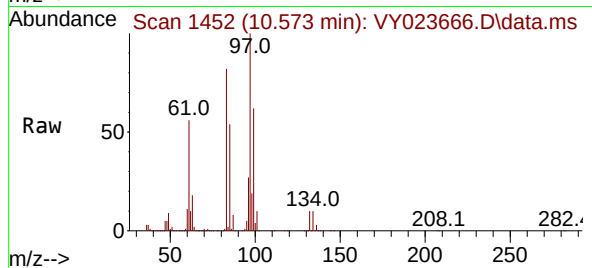
99 62.2 48.5 72.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#56

Ethyl methacrylate

Concen: 182.696 ug/l

RT: 10.438 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

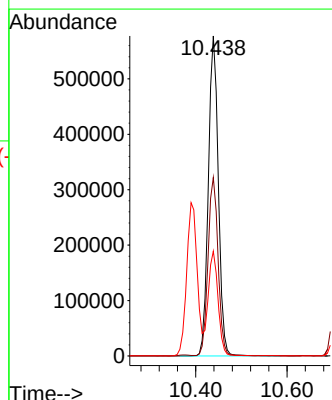
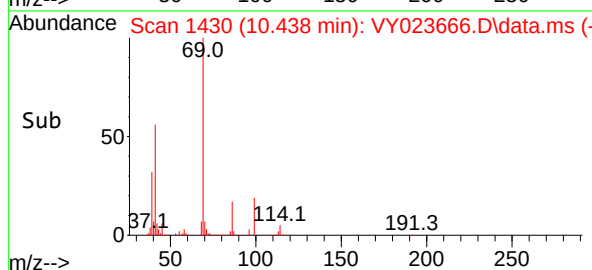
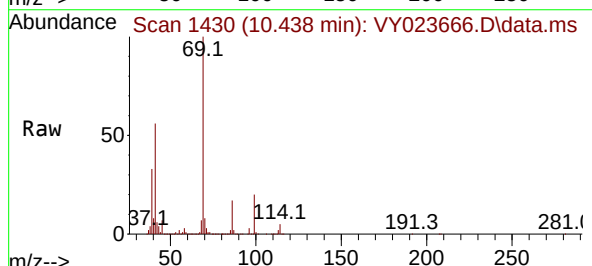
Tgt Ion: 69 Resp: 873314

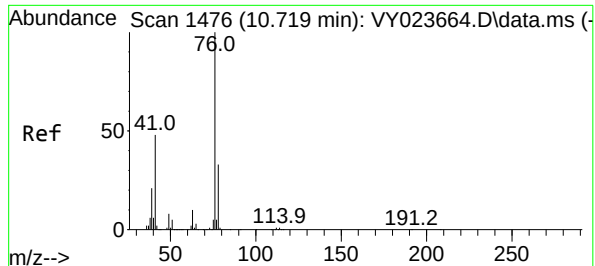
Ion Ratio Lower Upper

69 100

41 56.0 45.0 67.4

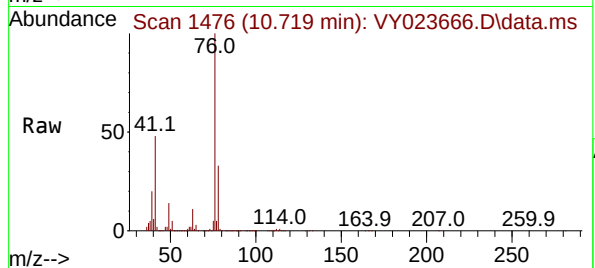
39 32.6 25.1 37.7





#57  
1,3-Dichloropropane  
Concen: 147.983 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

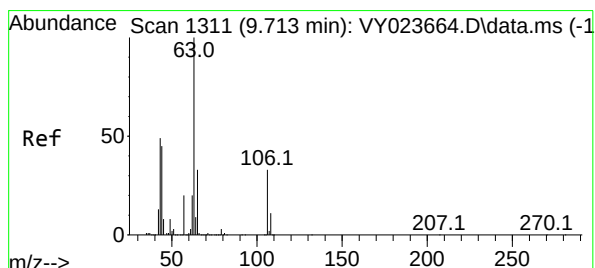
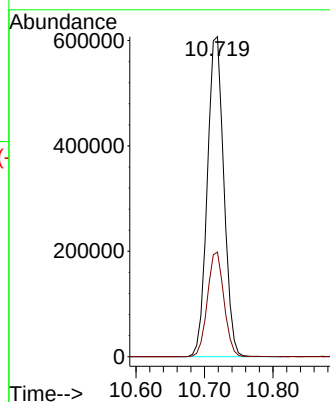
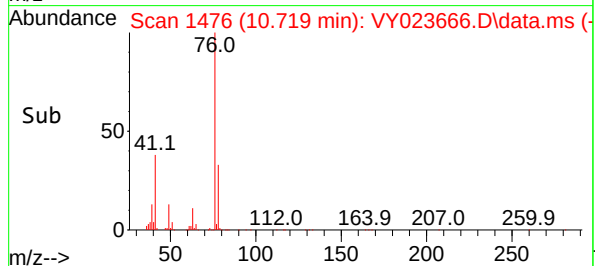
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion: 76 Resp: 1018360  
Ion Ratio Lower Upper  
76 100  
78 32.8 26.0 39.0

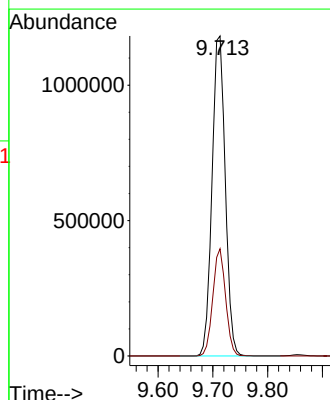
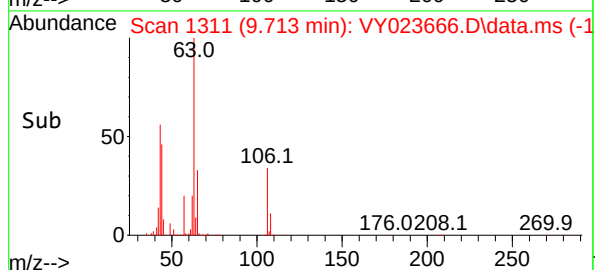
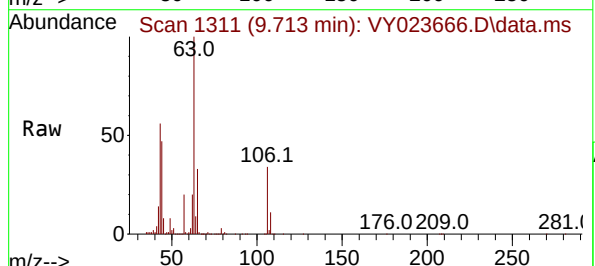
Manual Integrations  
APPROVED

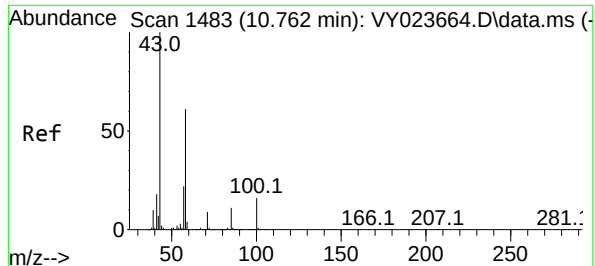
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 899.933 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

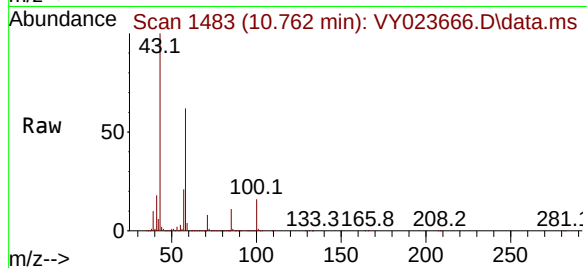
Tgt Ion: 63 Resp: 1973993  
Ion Ratio Lower Upper  
63 100  
106 32.4 26.2 39.2





#59  
2-Hexanone  
Concen: 847.892 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

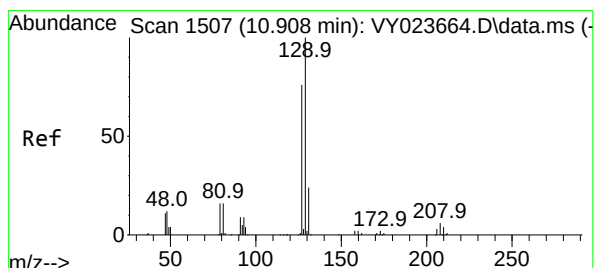
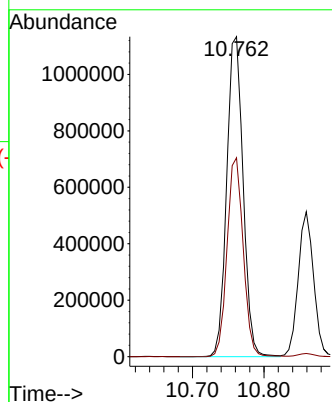
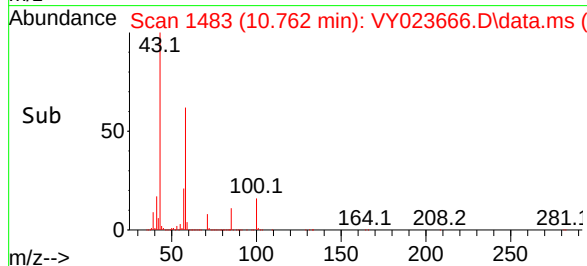
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



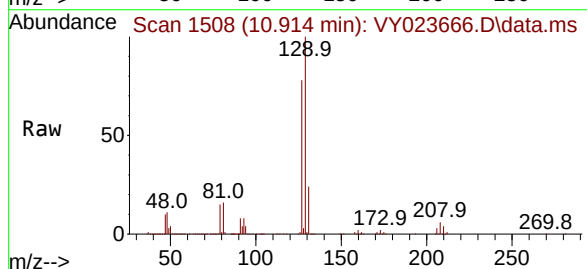
Tgt Ion: 43 Resp: 180220  
Ion Ratio Lower Upper  
43 100  
58 61.2 30.2 90.6

Manual Integrations  
APPROVED

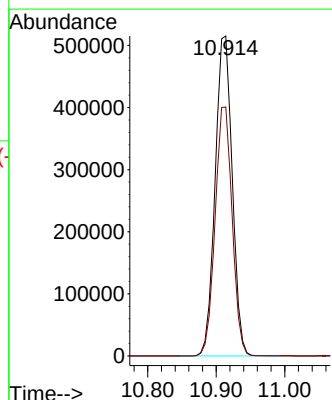
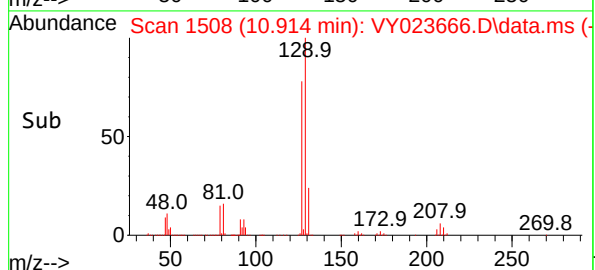
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

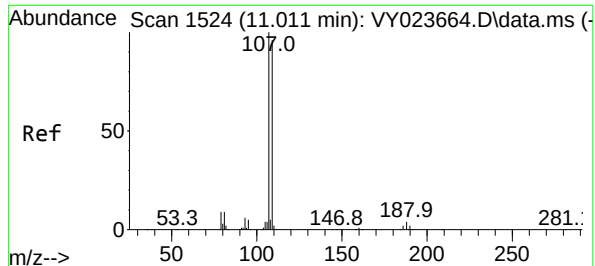


#60  
Dibromochloromethane  
Concen: 149.265 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



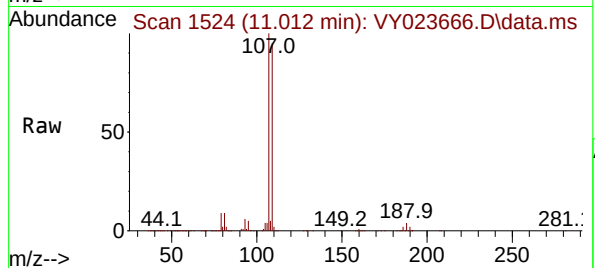
Tgt Ion:129 Resp: 889783  
Ion Ratio Lower Upper  
129 100  
127 77.8 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 150.335 ug/l  
RT: 11.012 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

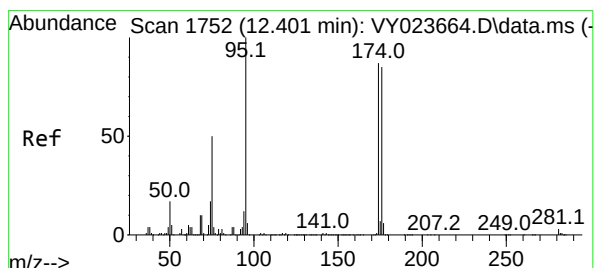
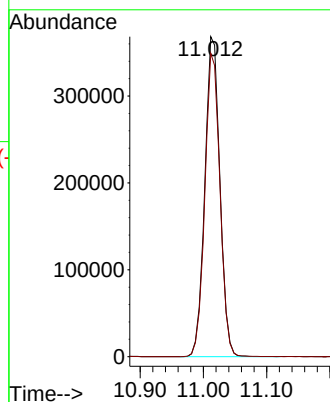
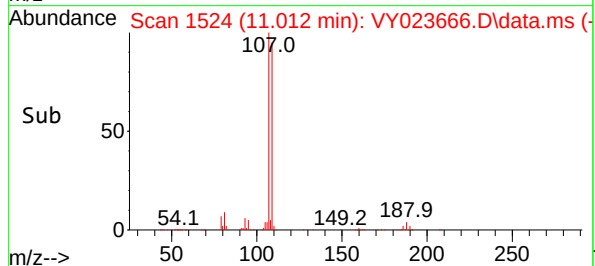
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion:107 Resp: 61210  
Ion Ratio Lower Upper  
107 100  
109 94.9 76.2 114.4

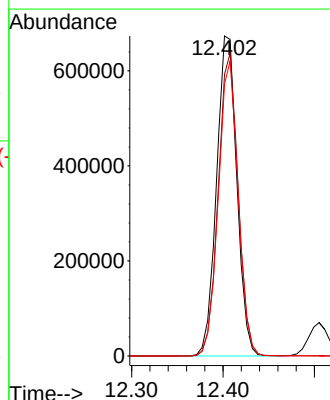
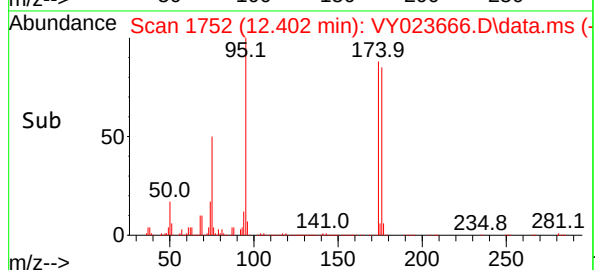
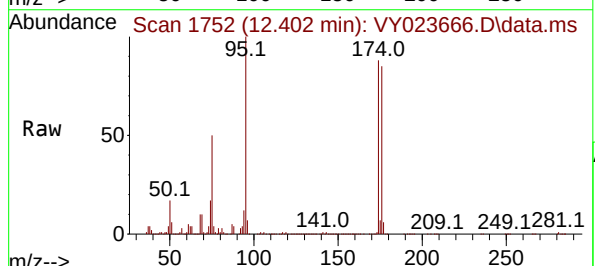
Manual Integrations  
APPROVED

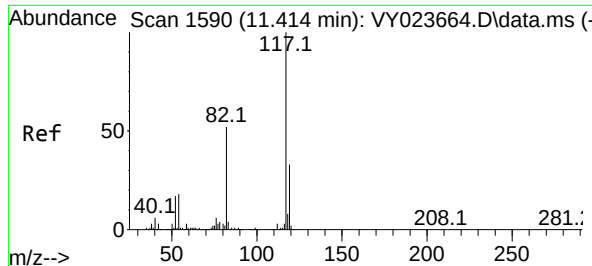
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 153.250 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

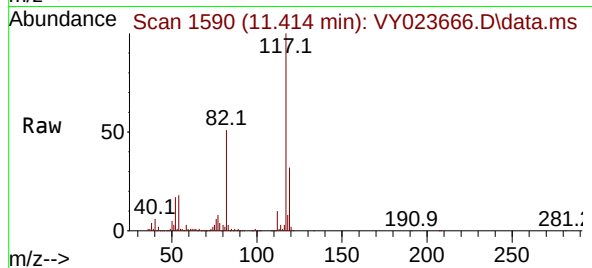
Tgt Ion: 95 Resp: 1040552  
Ion Ratio Lower Upper  
95 100  
174 92.6 0.0 184.8  
176 89.8 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

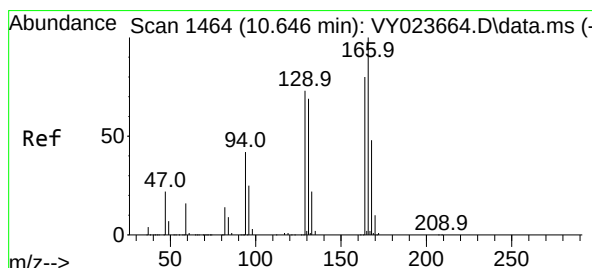
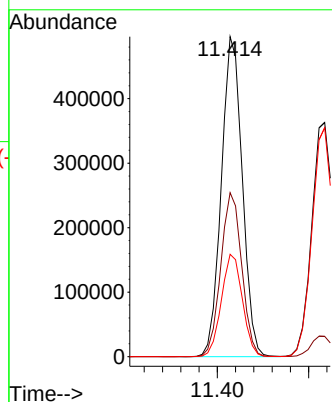
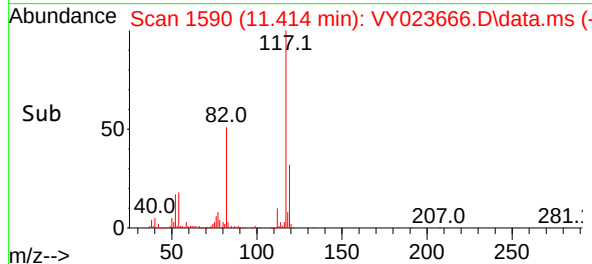
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



Tgt Ion:117 Resp: 790988  
Ion Ratio Lower Upper  
117 100  
82 51.2 41.2 61.8  
119 32.0 26.2 39.2

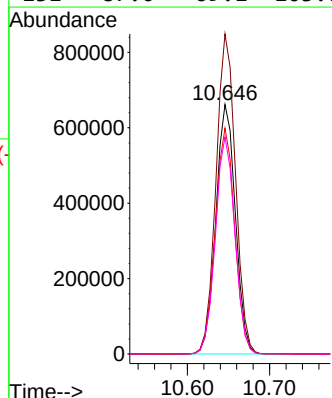
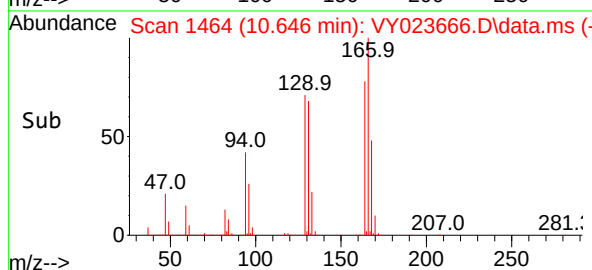
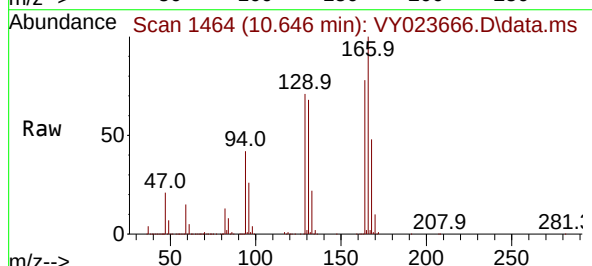
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

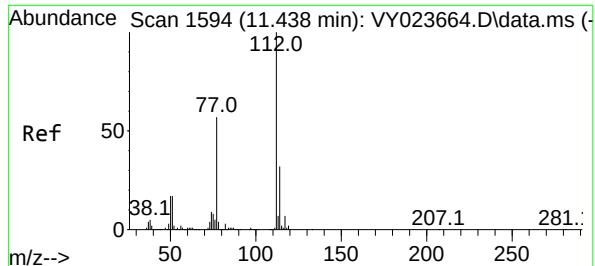


#64  
Tetrachloroethene  
Concen: 133.211 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion:164 Resp: 1096726  
Ion Ratio Lower Upper  
164 100  
166 128.3 99.5 149.3  
129 90.5 72.3 108.5  
131 87.0 69.1 103.7

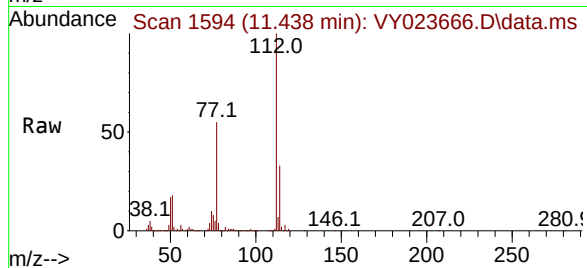






#65  
Chlorobenzene  
Concen: 145.689 ug/l  
RT: 11.438 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

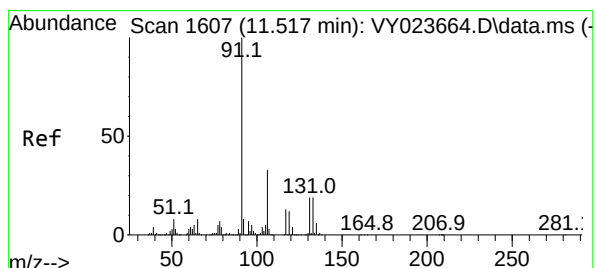
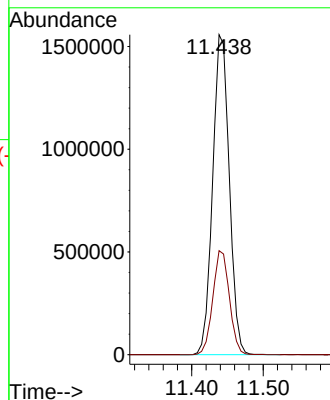
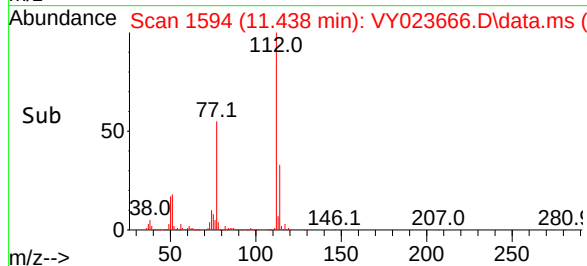
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



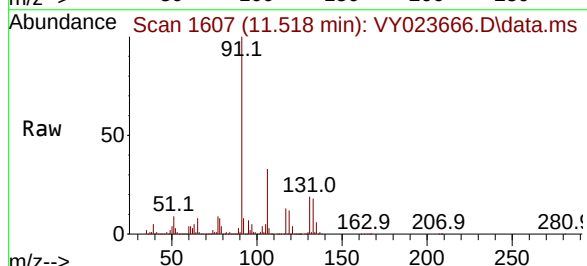
Tgt Ion:112 Resp: 2508744  
Ion Ratio Lower Upper  
112 100  
114 32.5 25.8 38.6

Manual Integrations  
APPROVED

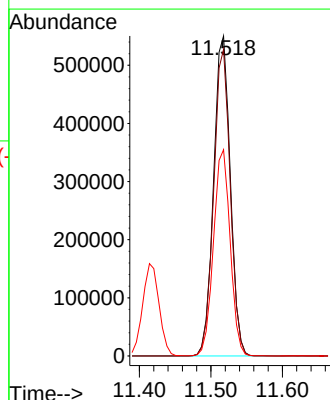
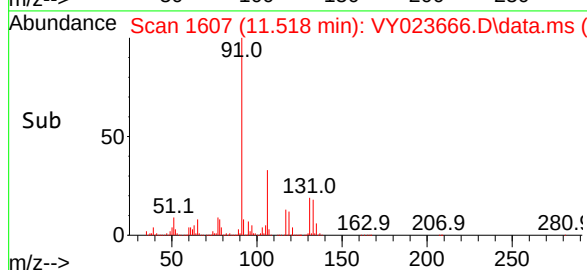
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

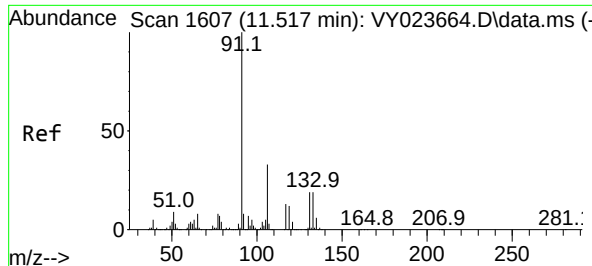


#66  
1,1,1,2-Tetrachloroethane  
Concen: 146.458 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



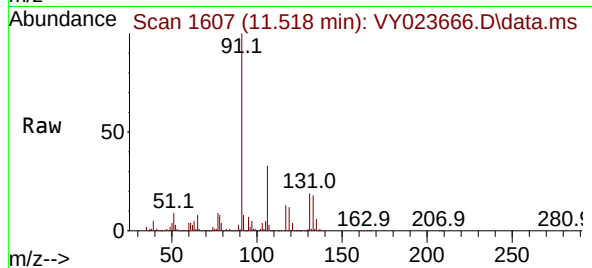
Tgt Ion:131 Resp: 891788  
Ion Ratio Lower Upper  
131 100  
133 95.1 47.3 141.8  
119 64.5 32.5 97.4





#67  
Ethyl Benzene  
Concen: 154.896 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

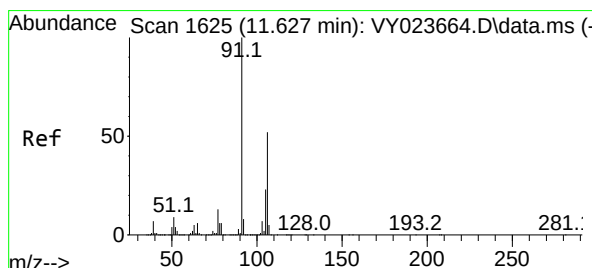
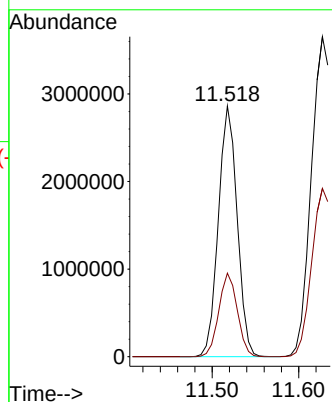
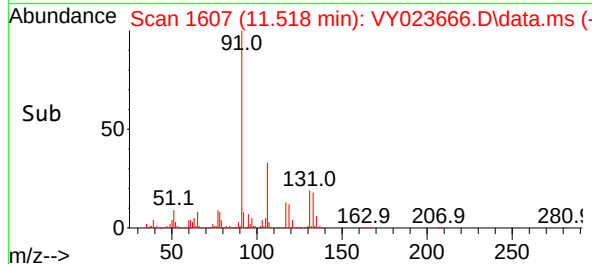
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



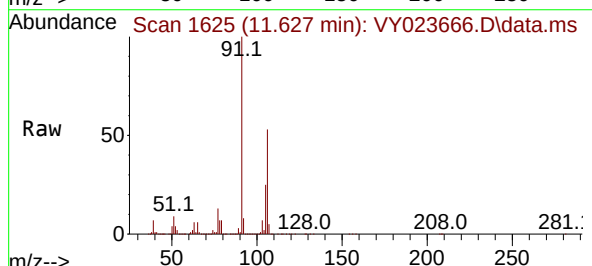
Tgt Ion: 91 Resp: 431687  
Ion Ratio Lower Upper  
91 100  
106 33.3 26.6 40.0

Manual Integrations  
APPROVED

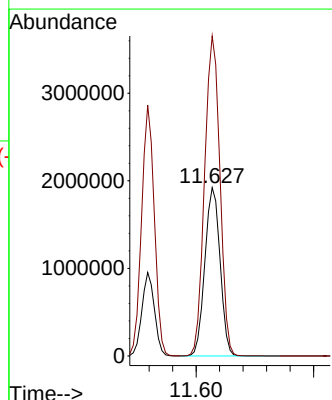
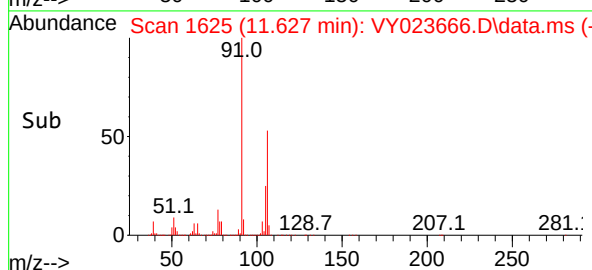
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

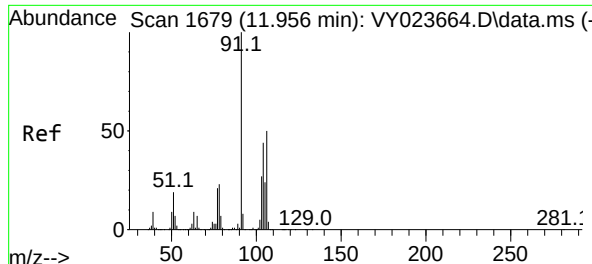


#68  
m/p-Xylenes  
Concen: 310.002 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



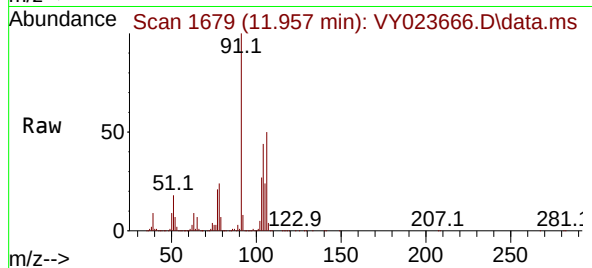
Tgt Ion:106 Resp: 3451849  
Ion Ratio Lower Upper  
106 100  
91 192.0 154.3 231.5





#69  
o-Xylene  
Concen: 159.402 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

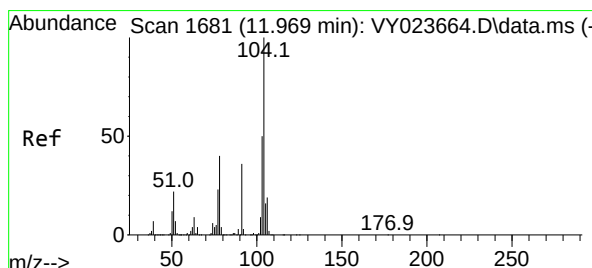
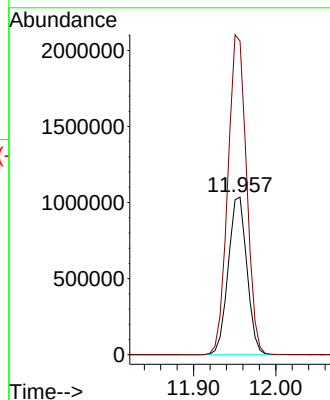
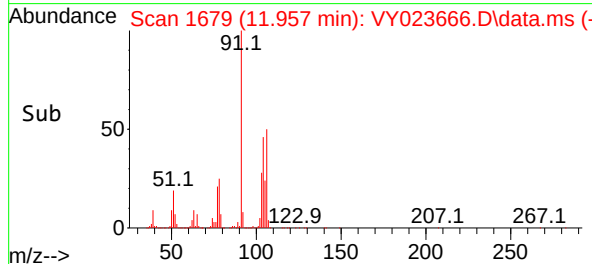
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



Tgt Ion:106 Resp: 1640734  
Ion Ratio Lower Upper  
106 100  
91 203.2 101.6 304.6

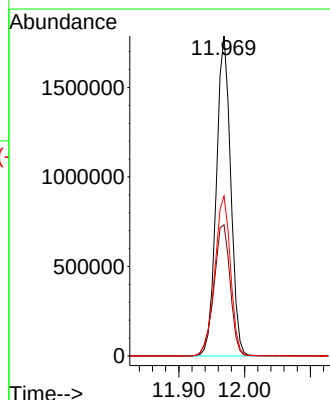
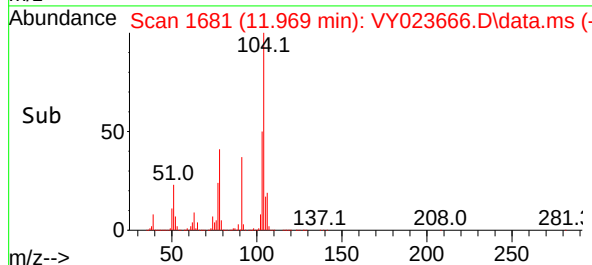
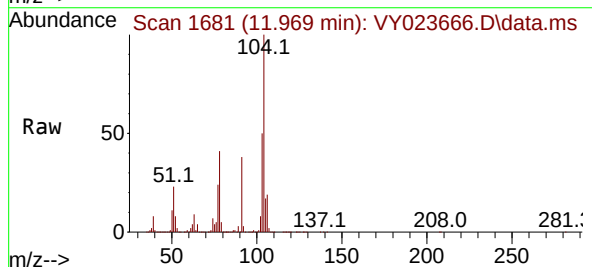
Manual Integrations  
APPROVED

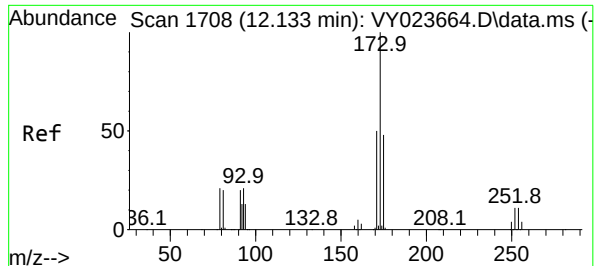
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 159.981 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

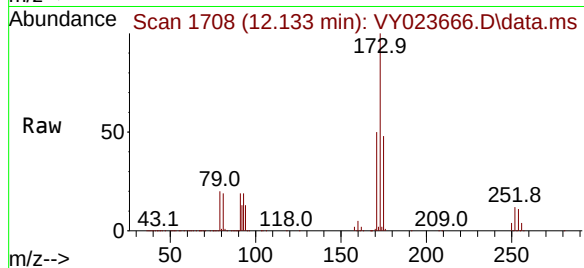
Tgt Ion:104 Resp: 2716949  
Ion Ratio Lower Upper  
104 100  
78 46.5 36.5 54.7  
103 54.6 43.7 65.5





#71  
Bromoform  
Concen: 154.254 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

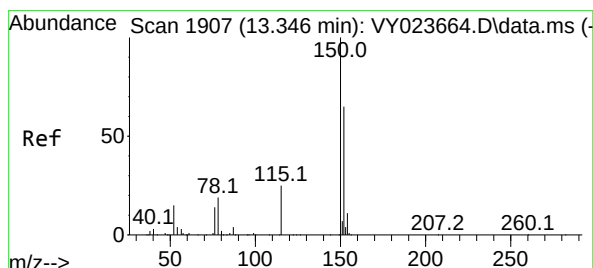
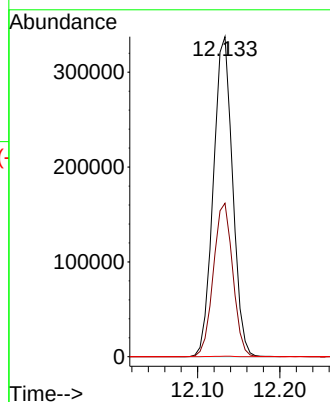
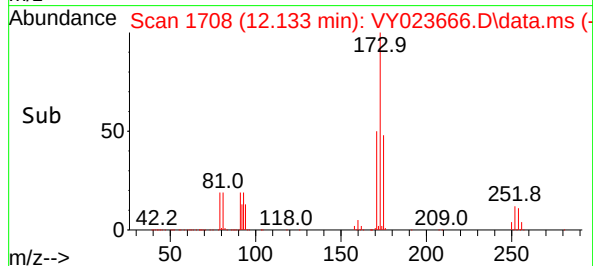
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



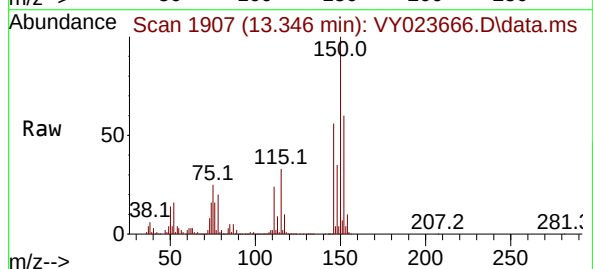
Tgt Ion:173 Resp: 54856  
Ion Ratio Lower Upper  
173 100  
175 48.4 24.2 72.6  
254 0.2 0.2 0.2

Manual Integrations  
APPROVED

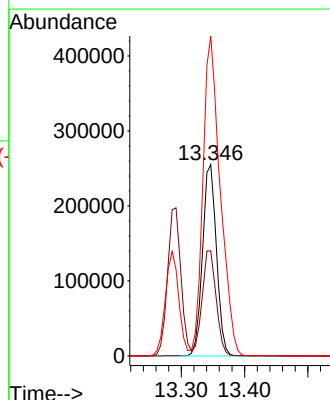
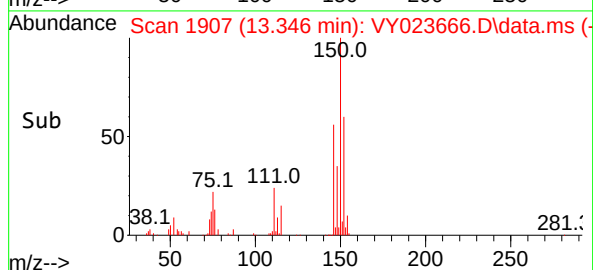
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

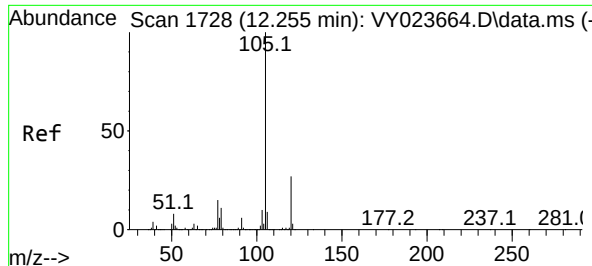


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



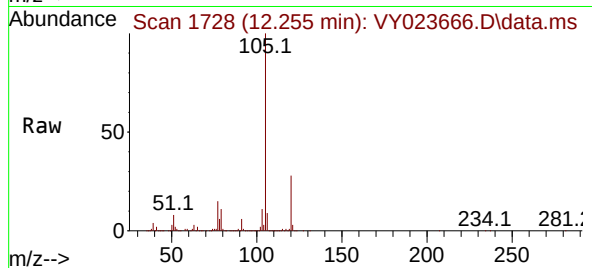
Tgt Ion:152 Resp: 391606  
Ion Ratio Lower Upper  
152 100  
115 55.6 27.5 82.5  
150 207.3 0.0 349.0





#73  
Isopropylbenzene  
Concen: 157.957 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

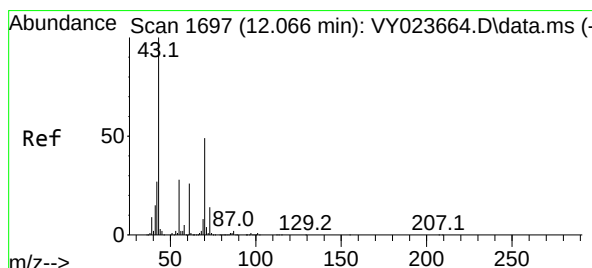
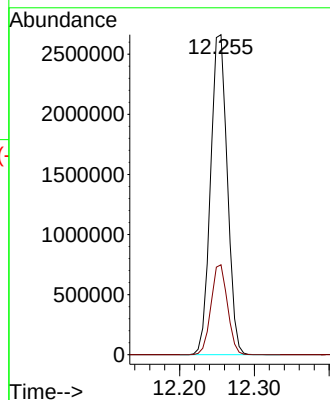
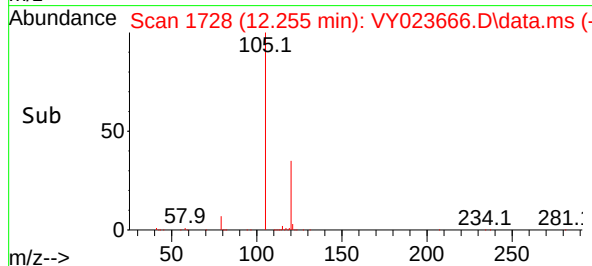
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion:105 Resp: 4137099  
Ion Ratio Lower Upper  
105 100  
120 27.6 13.6 40.7

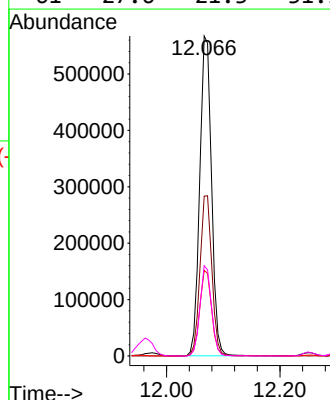
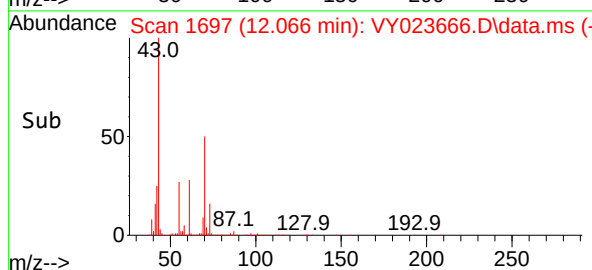
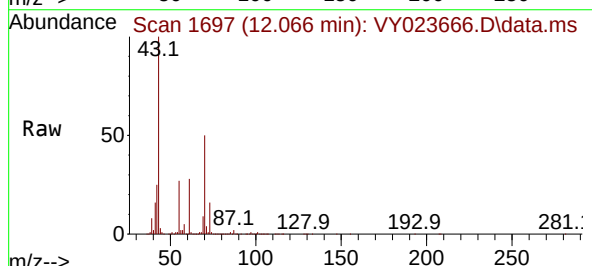
Manual Integrations  
APPROVED

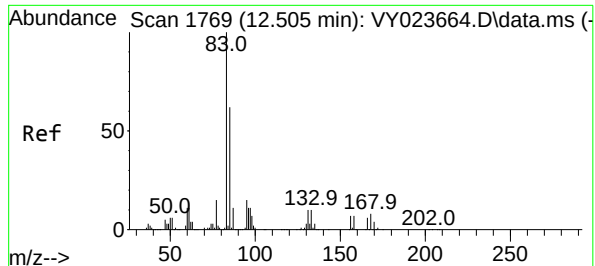
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 184.824 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 43 Resp: 819575  
Ion Ratio Lower Upper  
43 100  
70 50.5 40.1 60.1  
55 26.9 23.0 34.6  
61 27.6 21.3 31.9





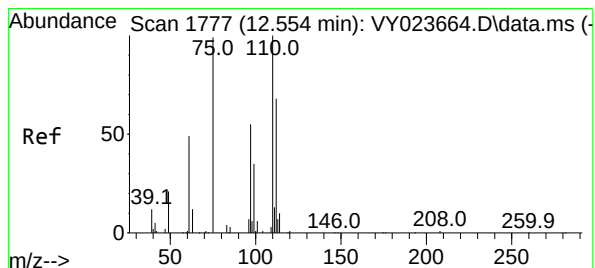
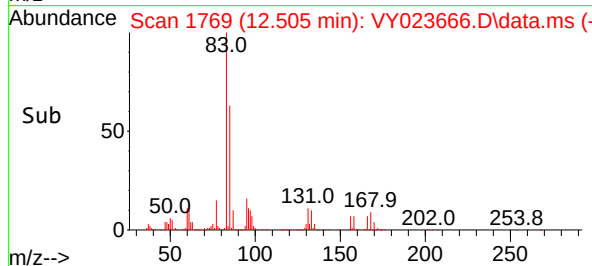
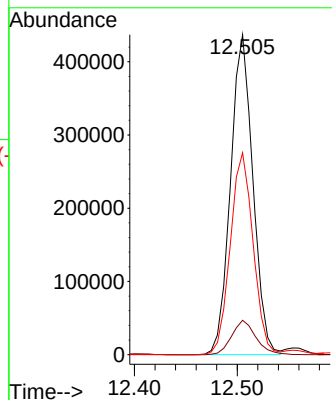
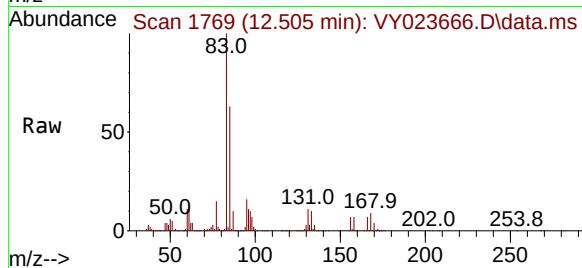
#75  
1,1,2,2-Tetrachloroethane  
Concen: 158.291 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Tgt Ion: 83 Resp: 66214  
Ion Ratio Lower Upper  
83 100  
131 11.6 5.7 17.0  
85 64.4 31.9 95.7

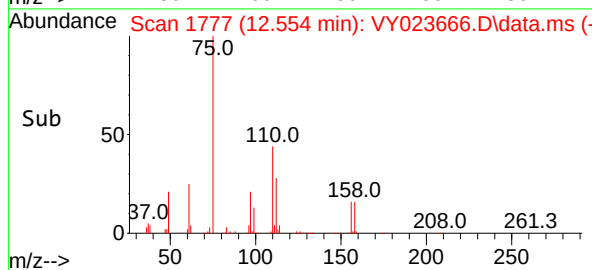
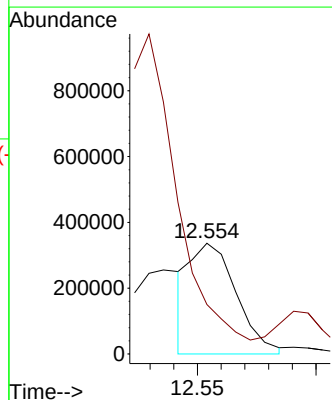
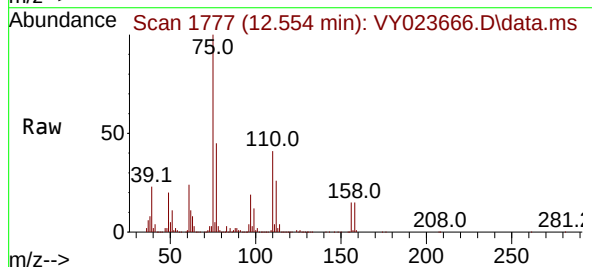
Manual Integrations  
APPROVED

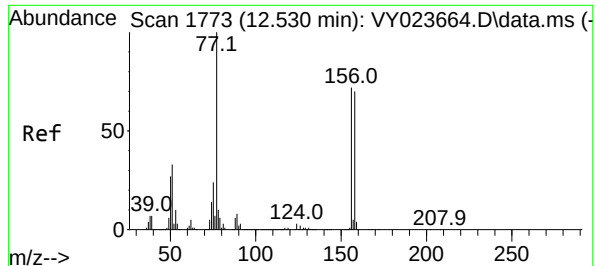
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#76  
1,2,3-Trichloropropane  
Concen: 145.052 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 75 Resp: 459716  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





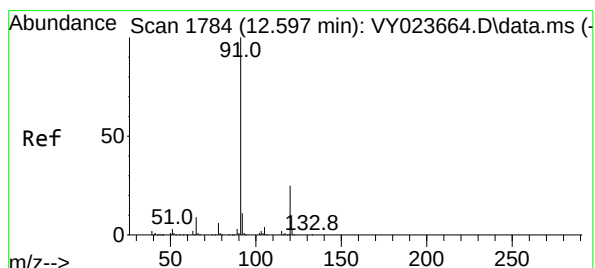
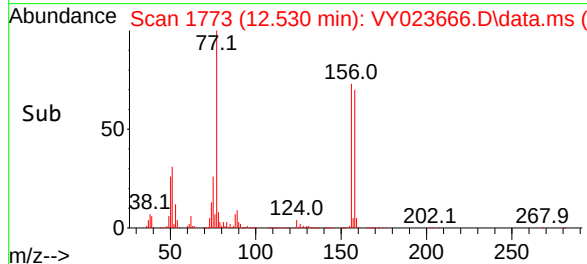
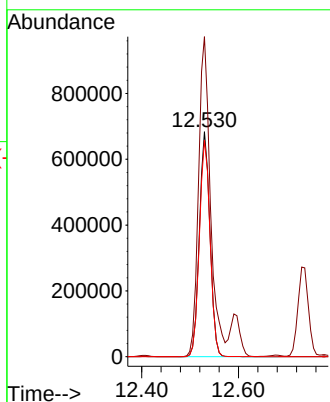
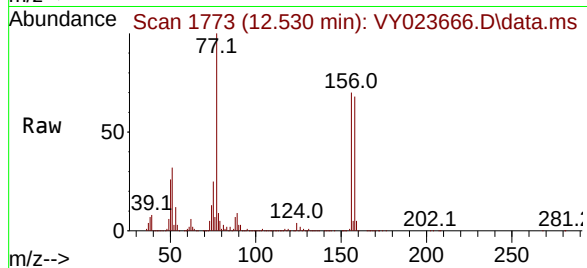
#77  
Bromobenzene  
Concen: 153.073 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

Tgt Ion:156 Resp: 1039954  
Ion Ratio Lower Upper  
156 100  
77 159.0 77.9 233.7  
158 97.1 48.5 145.5

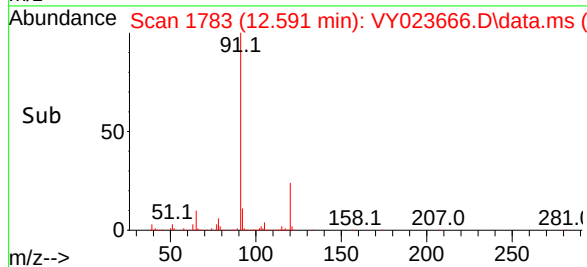
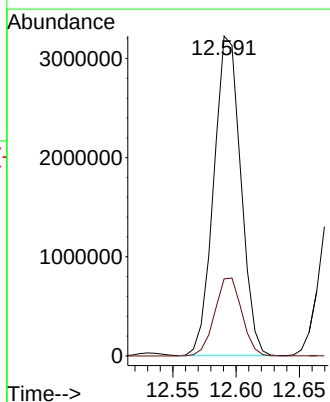
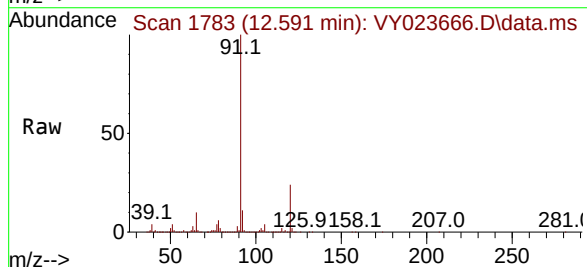
Manual Integrations  
APPROVED

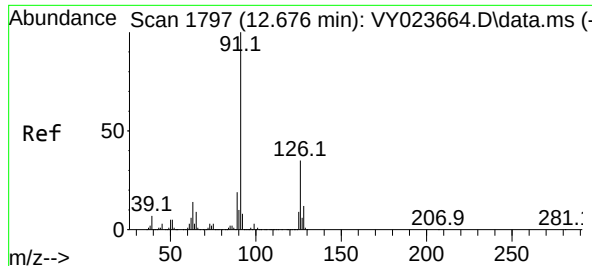
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 155.449 ug/l  
RT: 12.591 min Scan# 1783  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion: 91 Resp: 4789010  
Ion Ratio Lower Upper  
91 100  
120 24.4 12.0 36.1





#79

2-Chlorotoluene

Concen: 153.238 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 273947

Ion Ratio Lower Upper

91 100

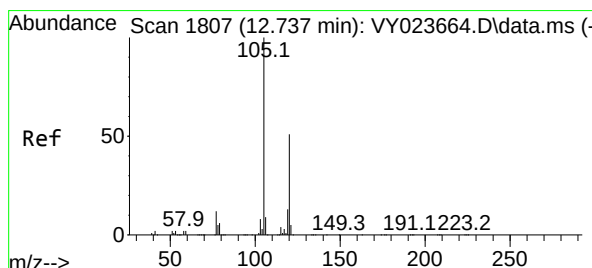
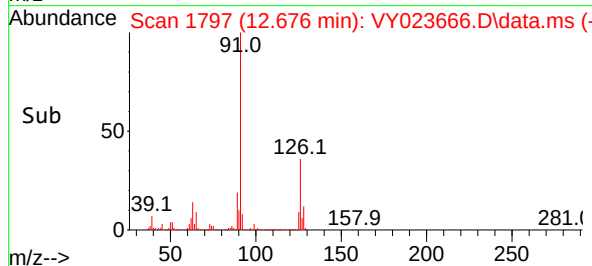
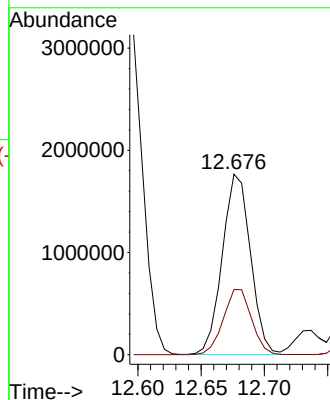
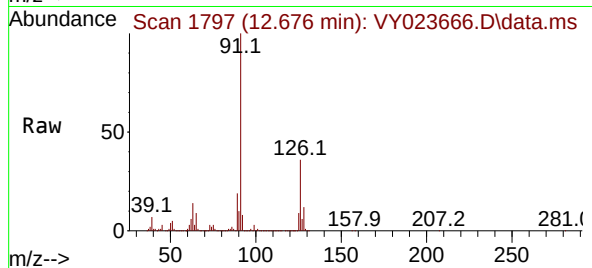
126 36.3 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#80

1,3,5-Trimethylbenzene

Concen: 157.728 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023666.D

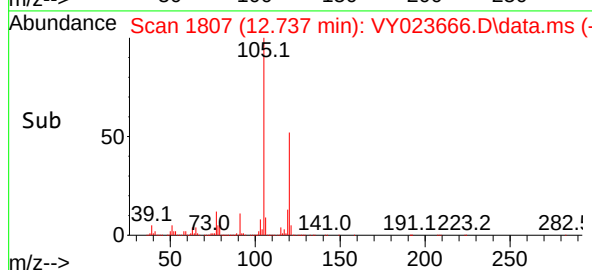
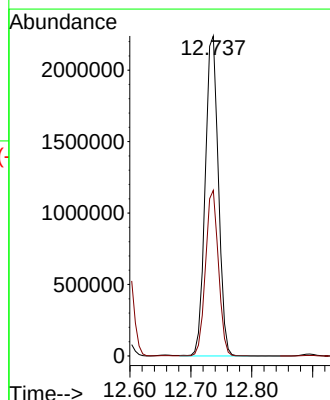
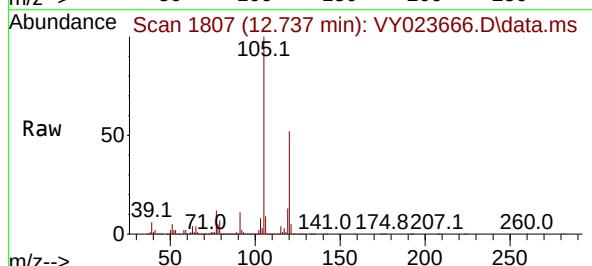
Acq: 04 Nov 2025 11:27

Tgt Ion:105 Resp: 3356489

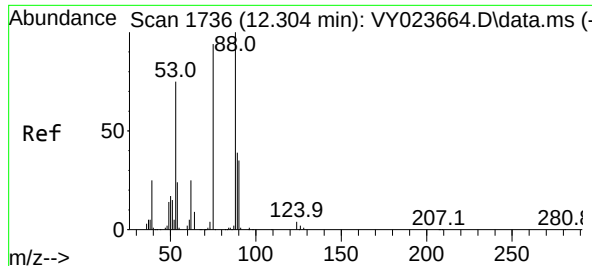
Ion Ratio Lower Upper

105 100

120 50.9 25.4 76.2

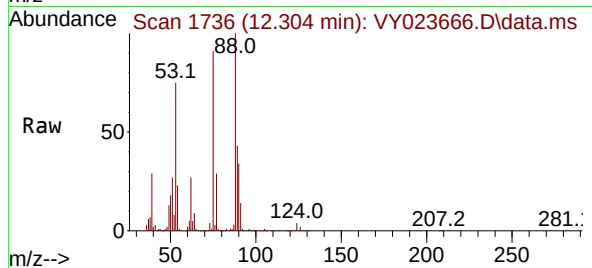






#81  
trans-1,4-Dichloro-2-butene  
Concen: 164.538 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

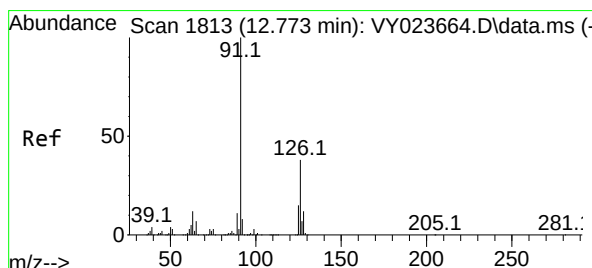
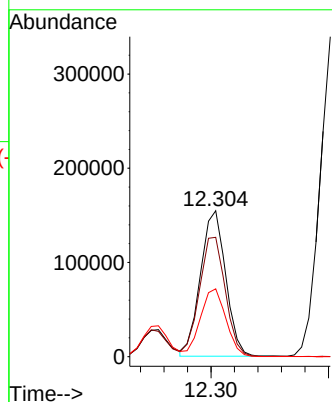
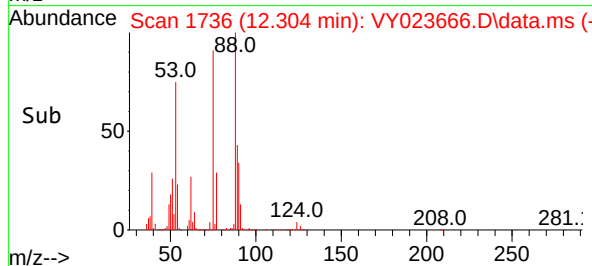
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion: 75 Resp: 230740  
Ion Ratio Lower Upper  
75 100  
53 84.1 69.6 104.4  
89 47.5 38.2 57.4

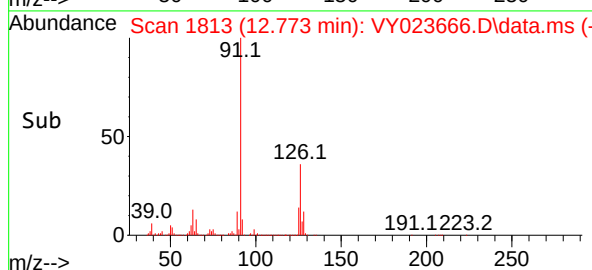
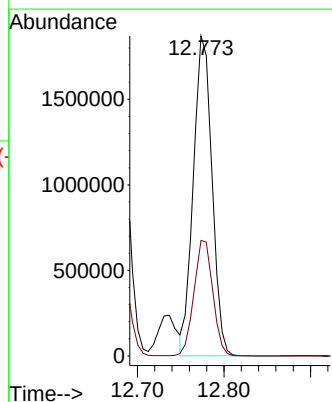
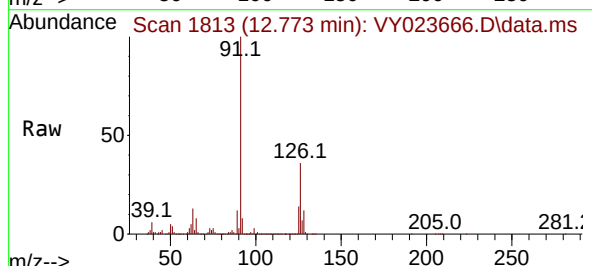
Manual Integrations  
APPROVED

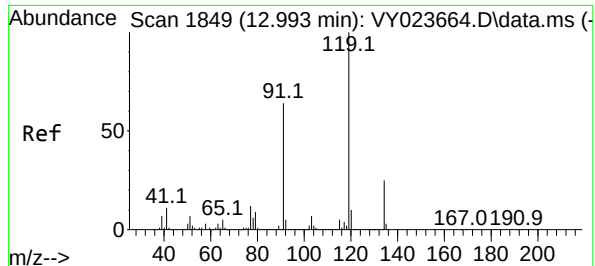
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 151.827 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

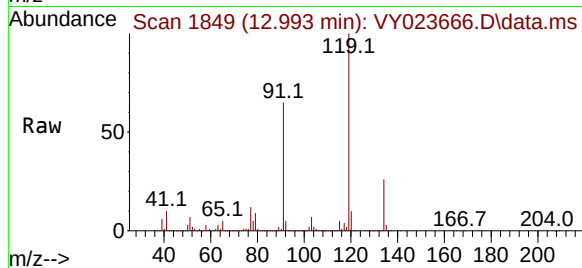
Tgt Ion: 91 Resp: 2799224  
Ion Ratio Lower Upper  
91 100  
126 36.6 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 162.060 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

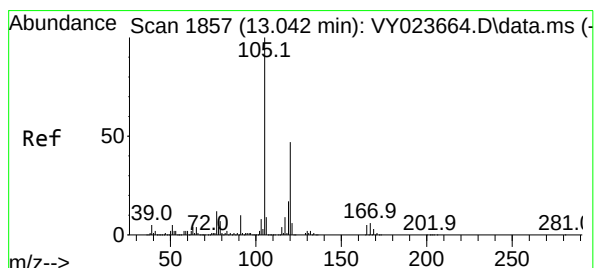
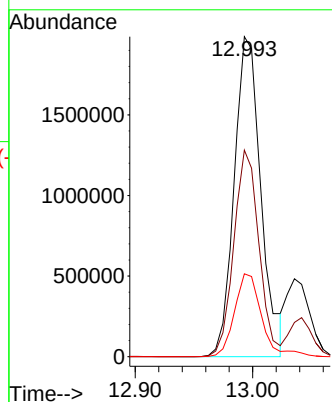
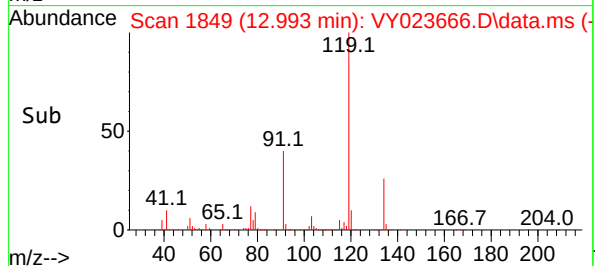
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion:119 Resp: 314096  
Ion Ratio Lower Upper  
119 100  
91 60.9 30.7 92.1  
134 26.4 13.1 39.1

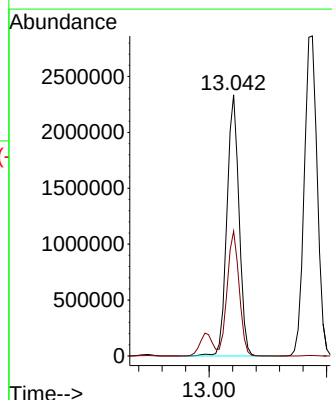
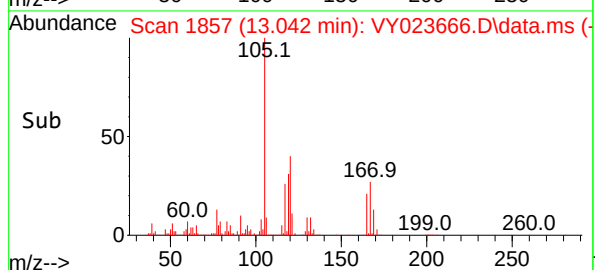
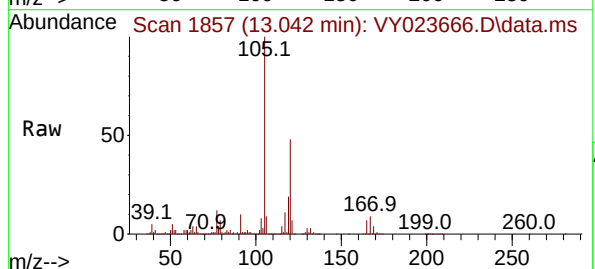
Manual Integrations  
APPROVED

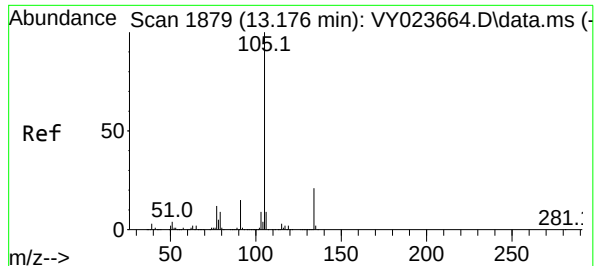
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 158.616 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

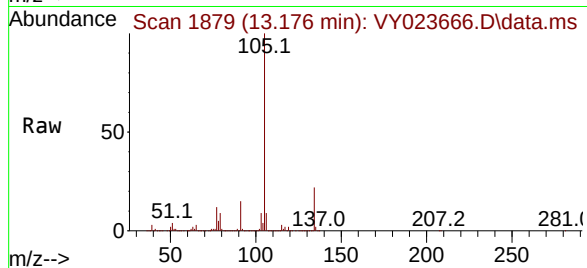
Tgt Ion:105 Resp: 3343184  
Ion Ratio Lower Upper  
105 100  
120 46.8 23.2 69.6





#85  
sec-Butylbenzene  
Concen: 156.408 ug/l  
RT: 13.176 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

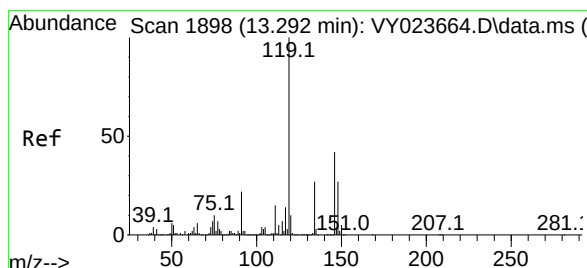
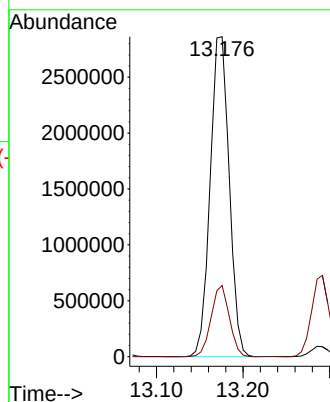
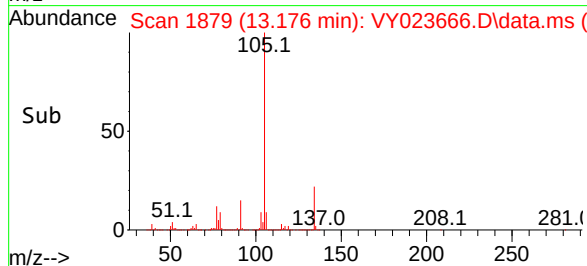
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150



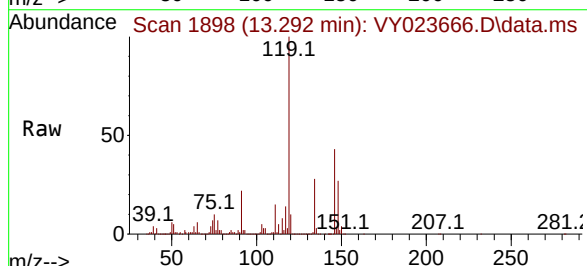
Tgt Ion:105 Resp: 4372340  
Ion Ratio Lower Upper  
105 100  
134 21.3 10.4 31.4

Manual Integrations  
APPROVED

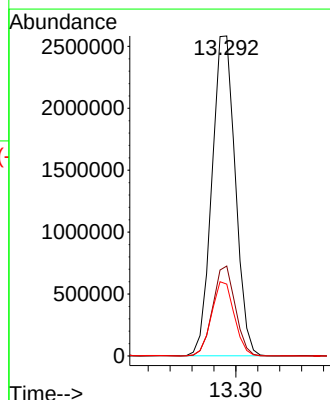
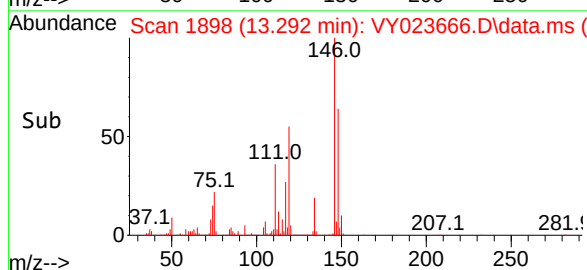
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

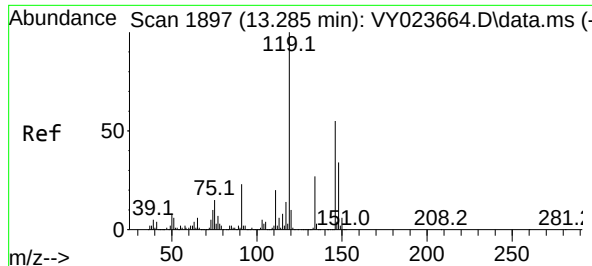


#86  
p-Isopropyltoluene  
Concen: 161.714 ug/l  
RT: 13.292 min Scan# 1898  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



Tgt Ion:119 Resp: 3826970  
Ion Ratio Lower Upper  
119 100  
134 27.0 13.4 40.2  
91 22.5 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 150.136 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 200758

Ion Ratio Lower Upper

146 100

111 38.0 18.8 56.3

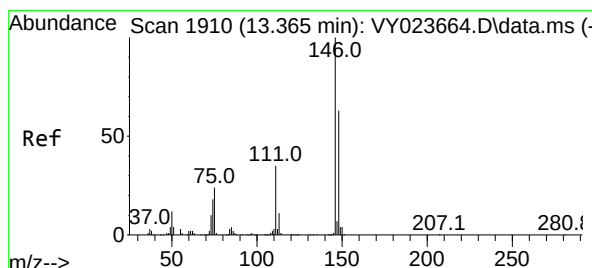
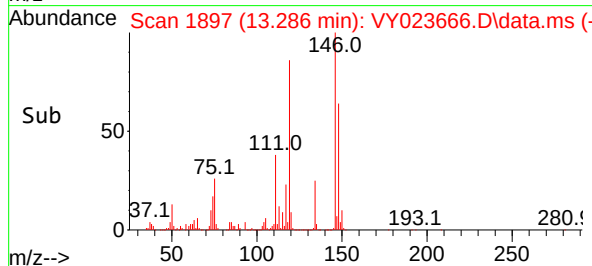
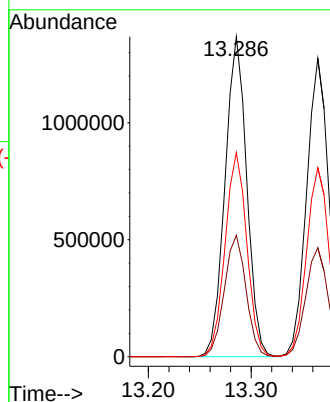
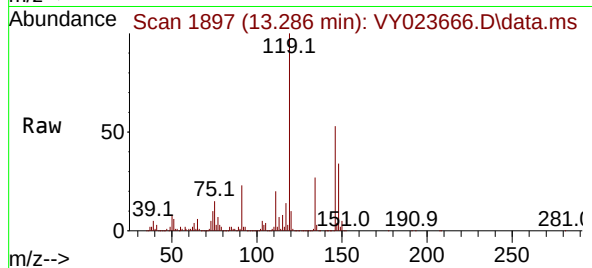
148 64.1 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 145.749 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

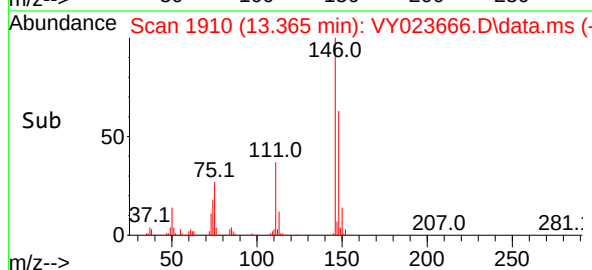
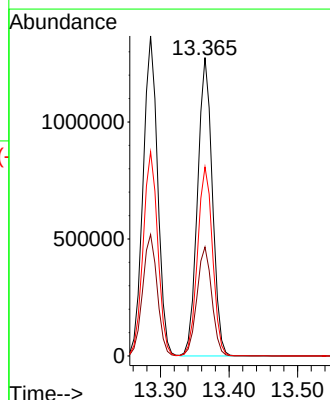
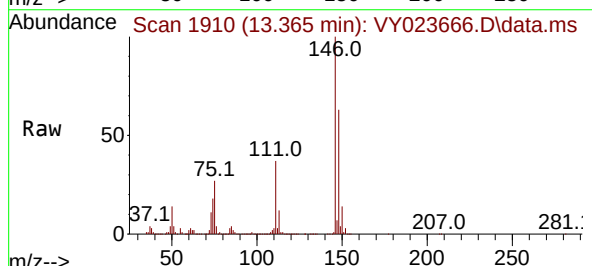
Tgt Ion:146 Resp: 1914429

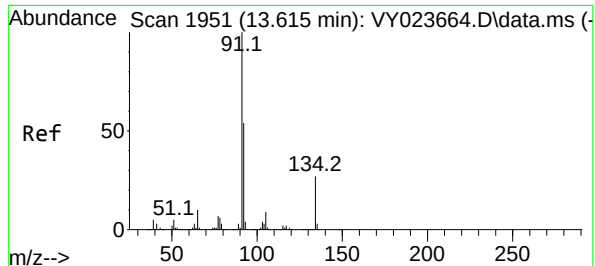
Ion Ratio Lower Upper

146 100

111 36.6 18.3 54.8

148 64.2 31.8 95.3





#89

n-Butylbenzene

Concen: 162.367 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 3341235

Ion Ratio Lower Upper

91 100

92 54.4 26.5 79.4

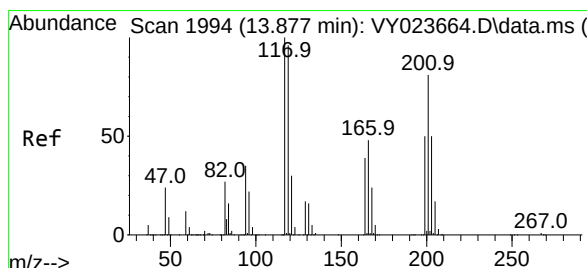
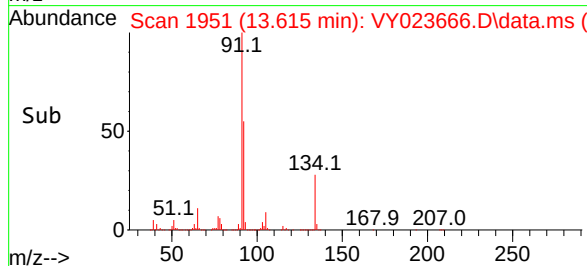
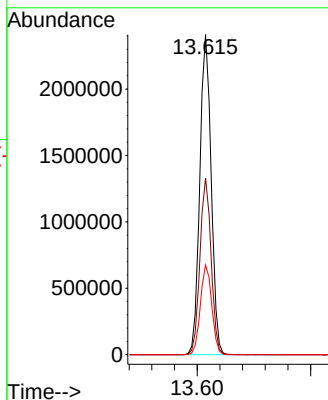
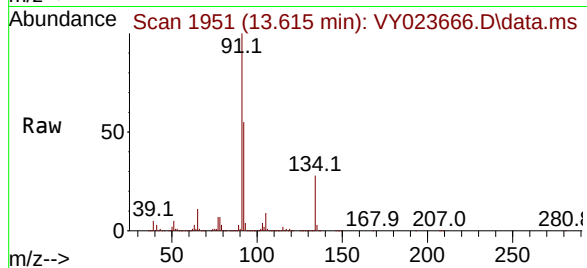
134 28.1 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 149.685 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023666.D

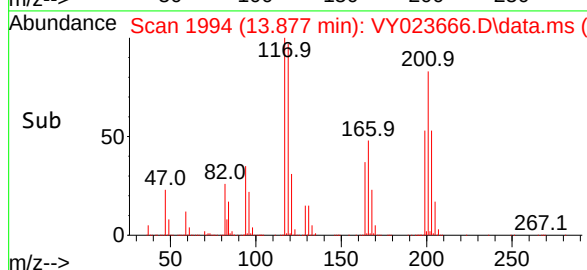
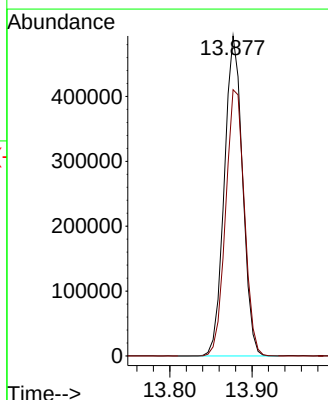
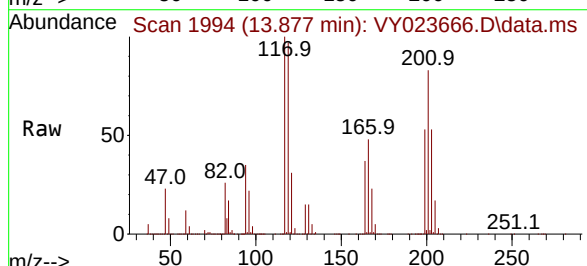
Acq: 04 Nov 2025 11:27

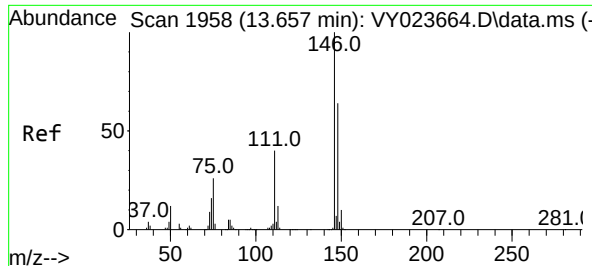
Tgt Ion:117 Resp: 761235

Ion Ratio Lower Upper

117 100

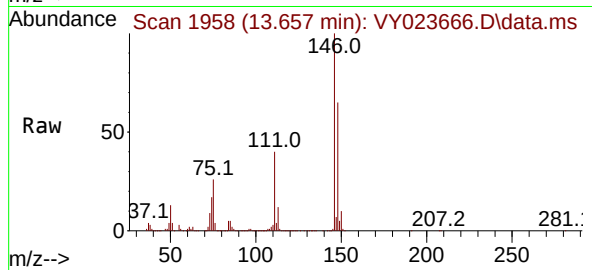
201 85.5 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 148.493 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

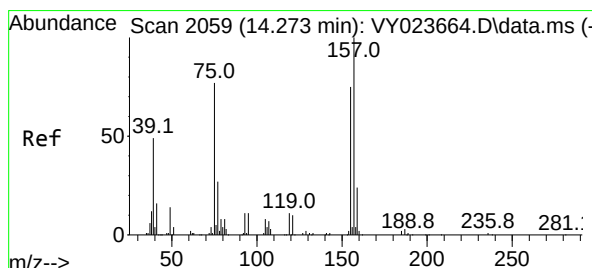
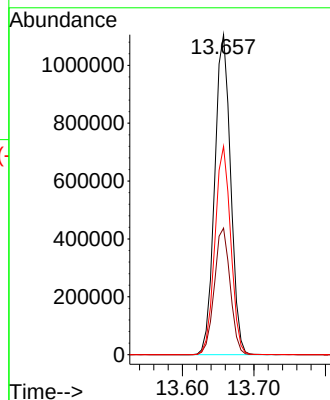
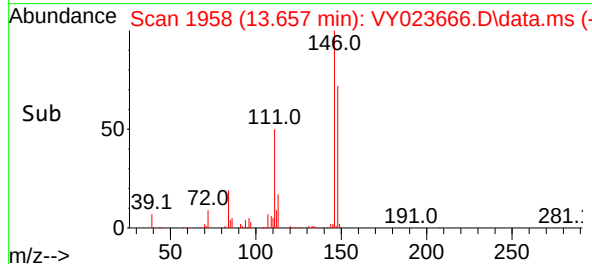
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



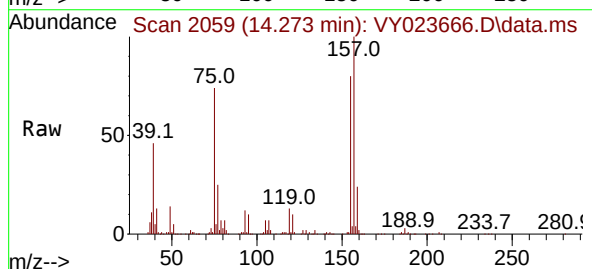
Tgt Ion:146 Resp: 171116  
Ion Ratio Lower Upper  
146 100  
111 39.3 19.5 58.5  
148 64.4 31.9 95.9

Manual Integrations  
APPROVED

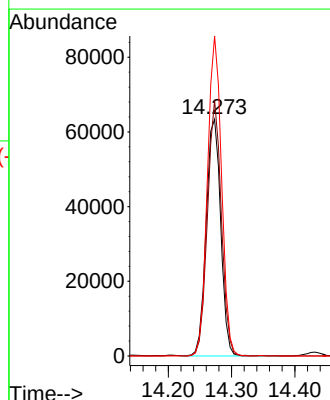
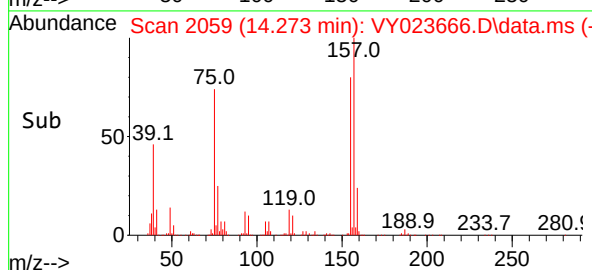
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

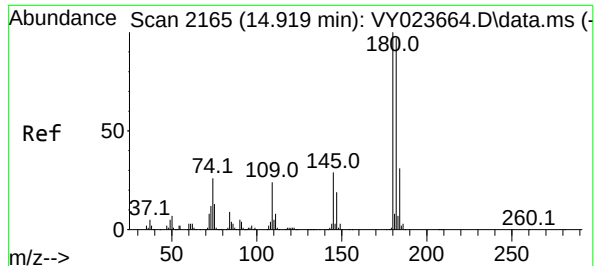


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 157.511 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27



Tgt Ion: 75 Resp: 101448  
Ion Ratio Lower Upper  
75 100  
155 102.9 49.4 148.2  
157 130.9 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 168.205 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 1108704

Ion Ratio Lower Upper

180 100

182 94.4 47.5 142.6

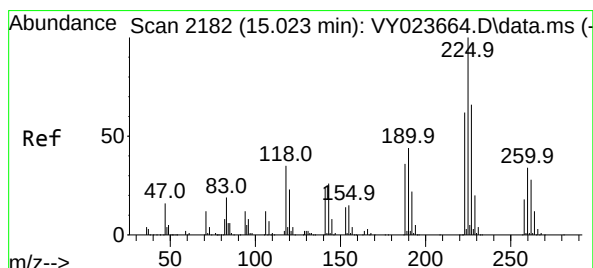
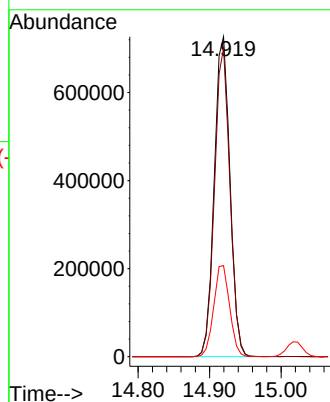
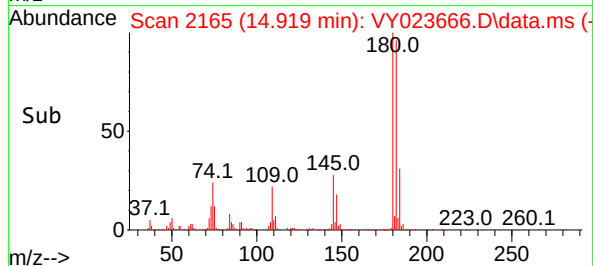
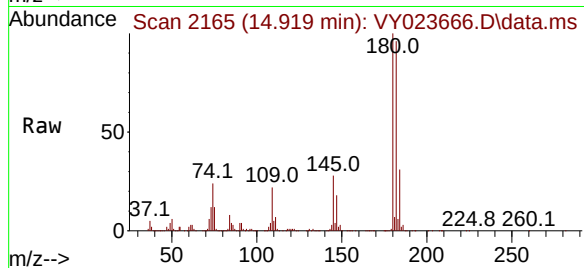
145 28.9 14.4 43.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#94

Hexachlorobutadiene

Concen: 148.620 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.000 min

Lab File: VY023666.D

Acq: 04 Nov 2025 11:27

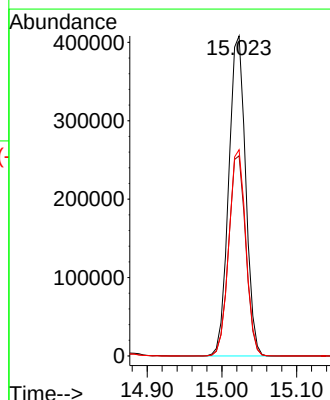
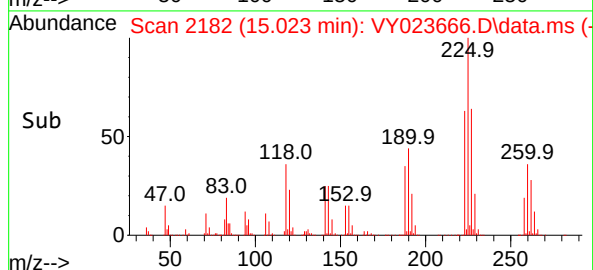
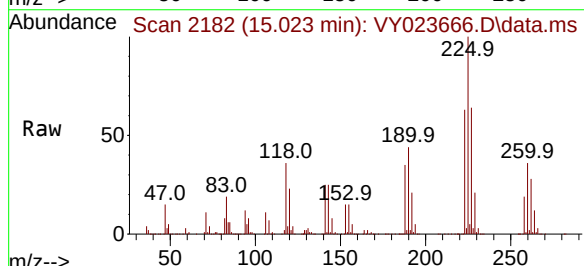
Tgt Ion:225 Resp: 641847

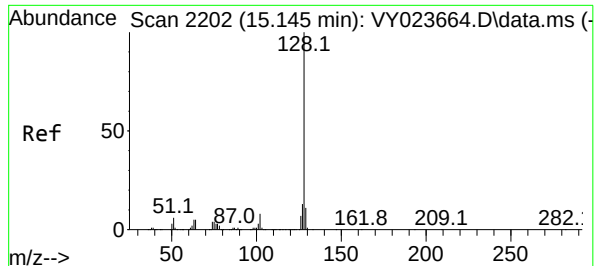
Ion Ratio Lower Upper

225 100

223 63.1 30.8 92.3

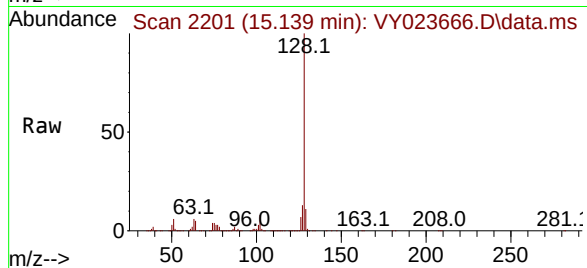
227 64.6 32.0 96.2





#95  
Naphthalene  
Concen: 152.117 ug/l  
RT: 15.139 min Scan# 2201  
Delta R.T. -0.006 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

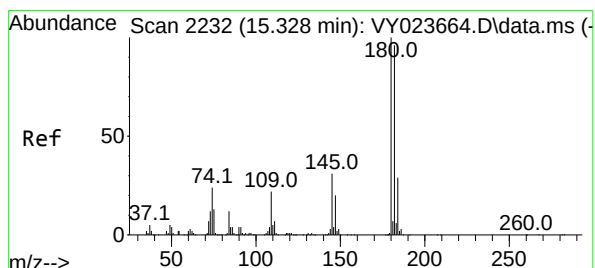
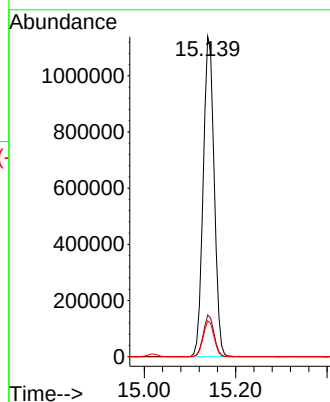
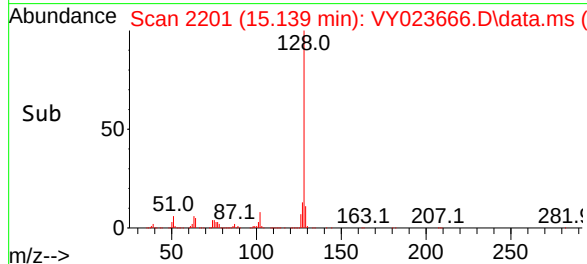
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150



Tgt Ion:128 Resp: 189129  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.5 15.7  
129 11.0 8.8 13.2

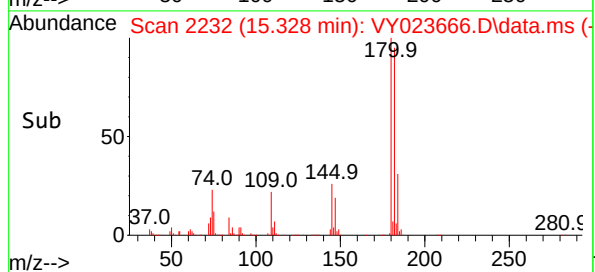
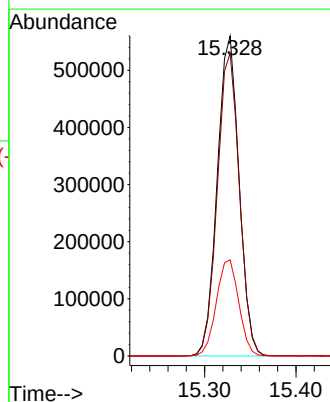
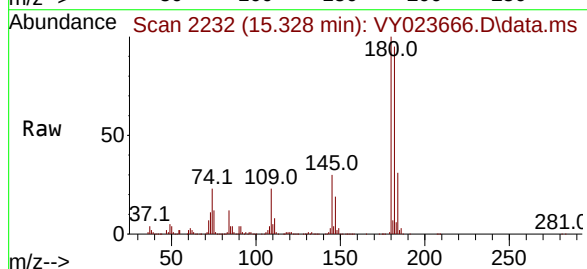
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 168.759 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023666.D  
Acq: 04 Nov 2025 11:27

Tgt Ion:180 Resp: 929367  
Ion Ratio Lower Upper  
180 100  
182 95.6 47.5 142.6  
145 30.9 15.5 46.5





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY110425

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 608113     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 888282     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 783299     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 398785     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 242791     | 46.805   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.620%  |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 268074     | 48.291   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.580%  |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 1040318    | 50.309   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.620% |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 344284     | 51.484   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 102.960% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 169445     | 42.448   | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 256717     | 45.957   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.208          | 62   | 330280     | 45.438   | ug/l   | 98       |
| 5) Bromomethane              | 2.599          | 94   | 277800     | 45.434   | ug/l   | 97       |
| 6) Chloroethane              | 2.739          | 64   | 235159     | 46.809   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 474583     | 46.359   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.458          | 74   | 132465     | 48.252   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 267535     | 47.433   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 316753     | 47.558   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 75144      | 224.660  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 261851     | 48.194   | ug/l   | 99       |
| 13) Acrolein                 | 3.653          | 56   | 91811      | 213.558  | ug/l   | 99       |
| 14) Allyl chloride           | 4.385          | 41   | 330702     | 50.006   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.062          | 53   | 257491     | 245.434  | ug/l   | 99       |
| 16) Acetone                  | 3.867          | 43   | 294814     | 228.644  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.110          | 76   | 787691     | 47.235   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.385          | 43   | 126071     | 44.328   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 643310     | 51.062   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.616          | 84   | 285026     | 45.791   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 300477     | 49.048   | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.025          | 45   | 755561     | 51.273   | ug/l   | 100      |
| 23) Vinyl Acetate            | 5.964          | 43   | 2077321    | 264.163  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 471845     | 48.064   | ug/l   | 99       |
| 25) 2-Butanone               | 6.897          | 43   | 352581     | 236.507  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 437078     | 48.402   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.897          | 96   | 347603     | 49.682   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.250          | 49   | 176101     | 46.849   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 198667     | 250.229  | ug/l   | 99       |
| 30) Chloroform               | 7.421          | 83   | 524526     | 47.888   | ug/l   | 100      |
| 31) Cyclohexane              | 7.701          | 56   | 414807     | 48.520   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 471242     | 48.137   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 369989     | 49.878   | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.988          | 43   | 146441     | 50.997   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 432288     | 49.462   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.110          | 83   | 501162     | 52.876   | ug/l   | 98       |
| 40) Benzene                  | 8.079          | 78   | 1163766    | 49.773   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY110425

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 68046    | 43.412   | ug/l # | 81       |
| 42) 1,2-Dichloroethane        | 8.159  | 62   | 287665   | 48.630   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 277810   | 51.490   | ug/l # | 87       |
| 44) Trichloroethene           | 8.866  | 130  | 327327   | 48.741   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 257161   | 49.835   | ug/l   | 98       |
| 46) Dibromomethane            | 9.232  | 93   | 159165   | 49.780   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.420  | 83   | 399133   | 49.512   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 135247   | 53.056   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 32783    | 1001.883 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 739467   | 257.714  | ug/l   | 99       |
| 52) Toluene                   | 10.170 | 92   | 769370   | 51.540   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 349820   | 51.286   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 418833   | 51.251   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 209781   | 49.096   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 259940   | 55.214   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 337613   | 49.813   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 586635   | 271.549  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 536488   | 256.278  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.908 | 129  | 293578   | 50.005   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 200656   | 50.038   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 384807   | 47.199   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 849748   | 49.832   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 298190   | 49.452   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 1445427  | 52.373   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 1159953  | 105.195  | ug/l   | 100      |
| 69) o-Xylene                  | 11.957 | 106  | 541389   | 53.114   | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 896108   | 53.283   | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 177352   | 50.360   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 1417486  | 53.146   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.072 | 43   | 238873   | 52.899   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 214414   | 50.335   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 153462m  | 47.550   | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 348579   | 50.384   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.591 | 91   | 1654045  | 52.723   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 940627   | 51.669   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1152618  | 53.189   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75   | 70336    | 49.252   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.774 | 91   | 965258   | 51.412   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 1067903  | 54.107   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1146575  | 53.419   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.170 | 105  | 1517909  | 53.321   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1299518  | 53.924   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 681531   | 50.050   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 656109   | 49.051   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 1139328  | 54.369   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 258543   | 49.923   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.658 | 146  | 587705   | 50.082   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 31188    | 47.551   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 356674   | 53.138   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 222246   | 50.535   | ug/l   | 99       |
| 95) Naphthalene               | 15.139 | 128  | 560653   | 48.012   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 300360   | 53.559   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023668.D  
Acq On : 04 Nov 2025 12:14  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 05 04:45:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/soil  
 ALS Vial : 10 Sample Multiplier: 1

## Instrument :

MSVOA\_Y

## ClientSampleId :

ICVVY110425

## Manual Integrations

## APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025

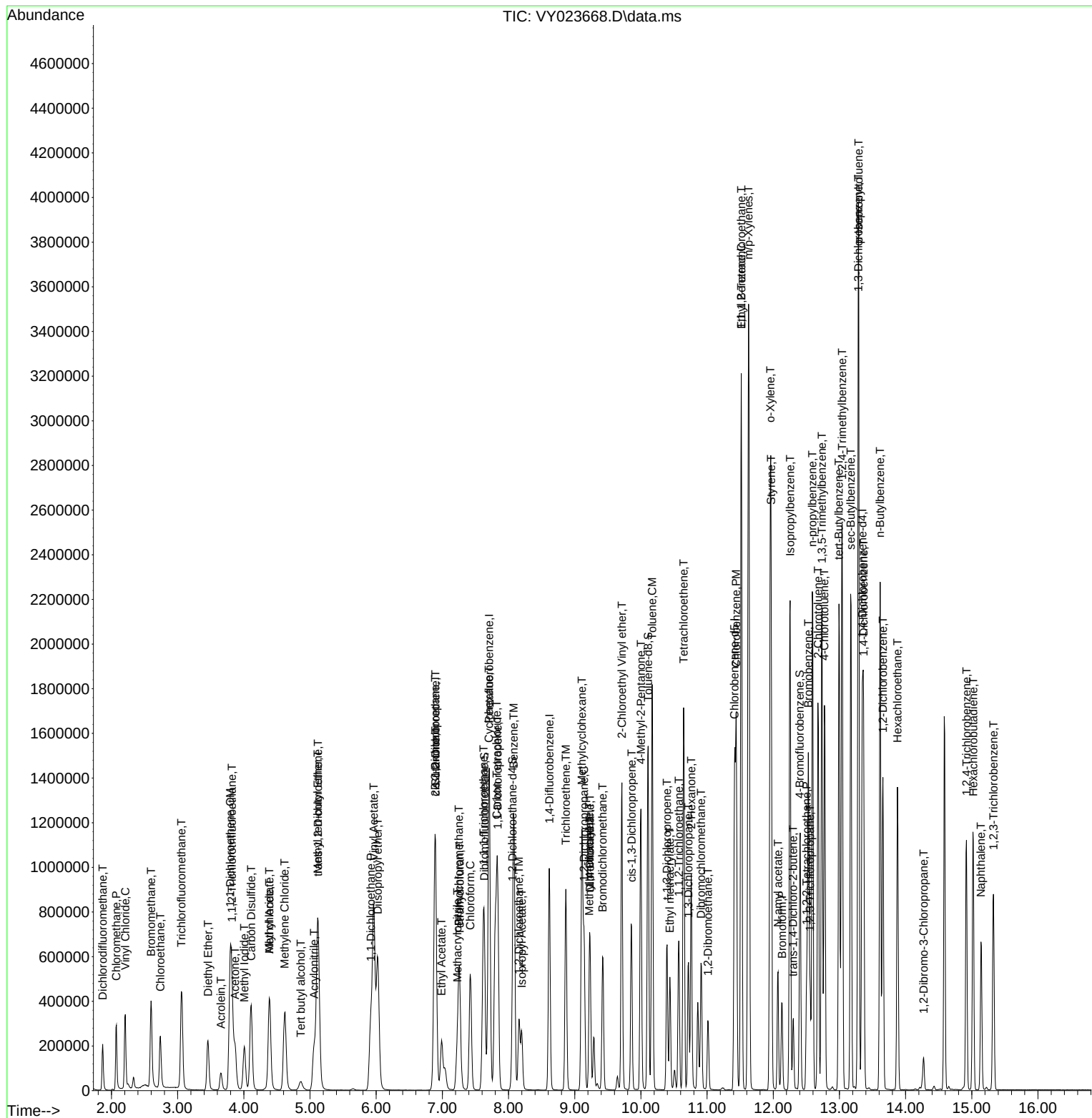
Quant Time: Nov 05 04:45:25 2025

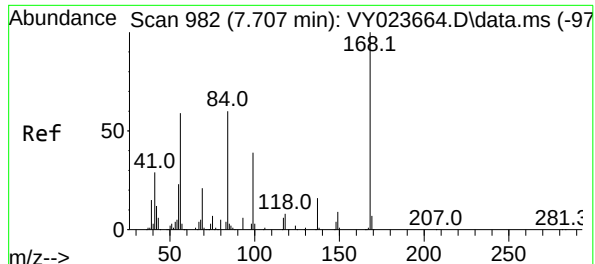
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M

Quant Title : SW846 8260

QLast Update : Wed Nov 05 04:41:50 2025

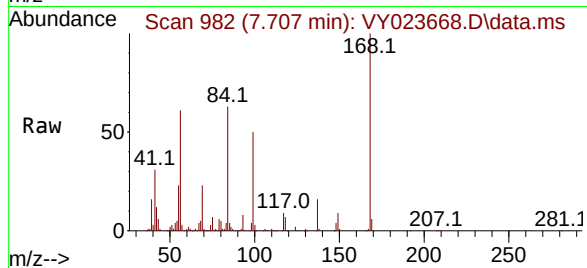
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

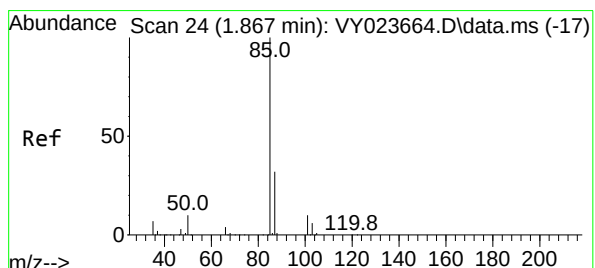
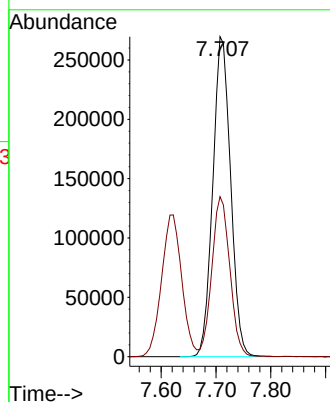
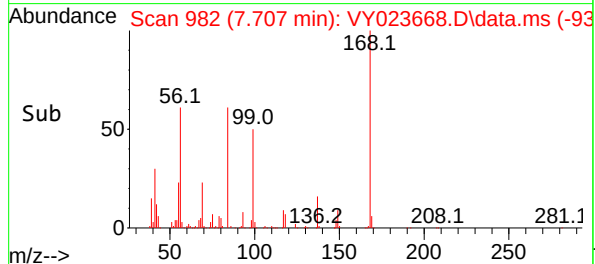
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:168 Resp: 60811  
Ion Ratio Lower Upper  
168 100  
99 49.9 41.0 61.4

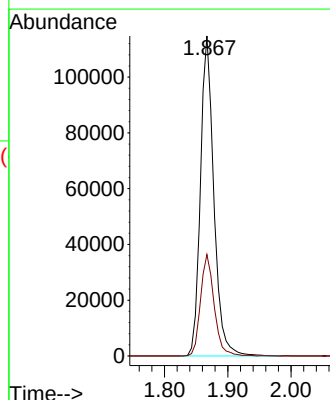
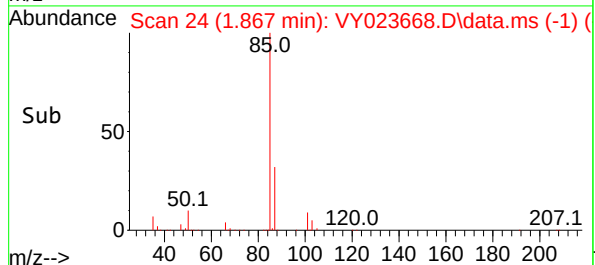
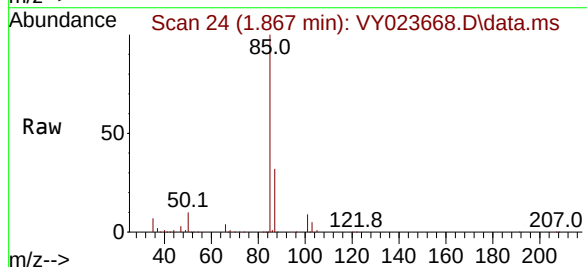
Manual Integrations  
APPROVED

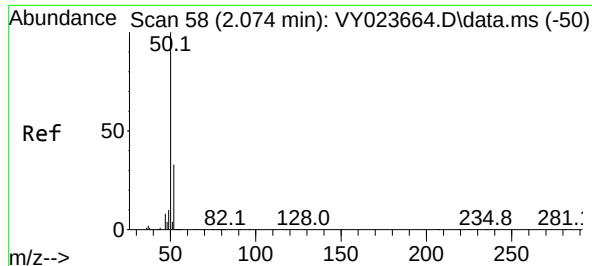
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#2  
Dichlorodifluoromethane  
Concen: 42.448 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

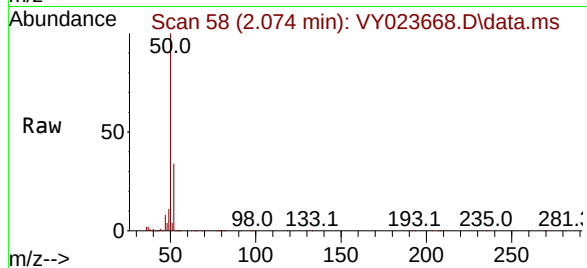
Tgt Ion: 85 Resp: 169445  
Ion Ratio Lower Upper  
85 100  
87 31.7 16.2 48.6





#3  
Chloromethane  
Concen: 45.957 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

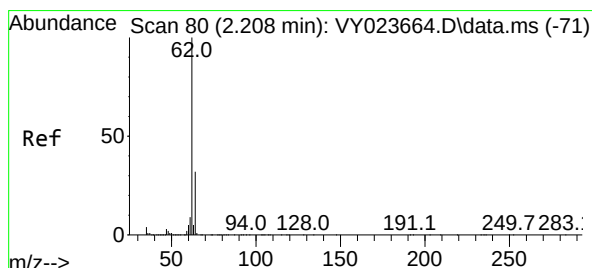
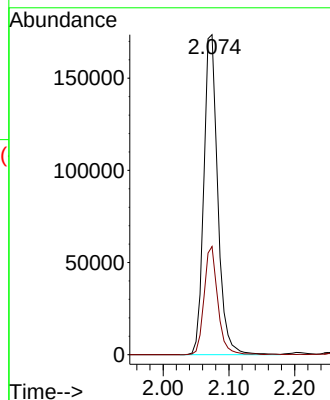
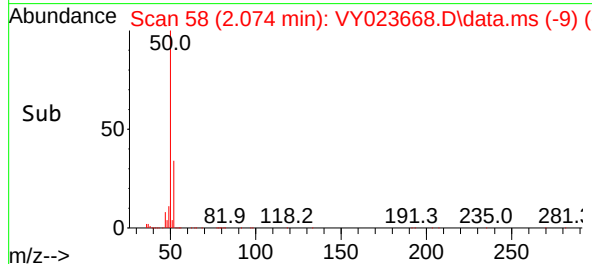
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVY110425



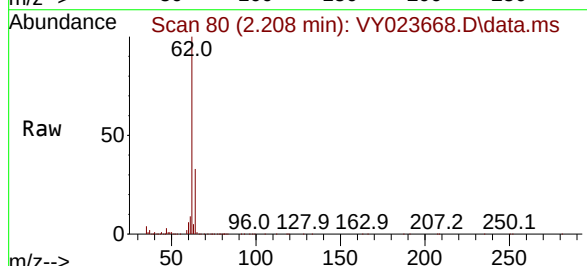
Tgt Ion: 50 Resp: 25671  
Ion Ratio Lower Upper  
50 100  
52 33.8 26.5 39.7

Manual Integrations  
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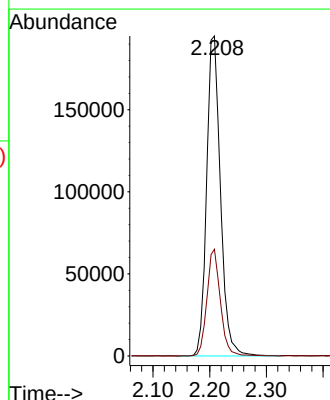
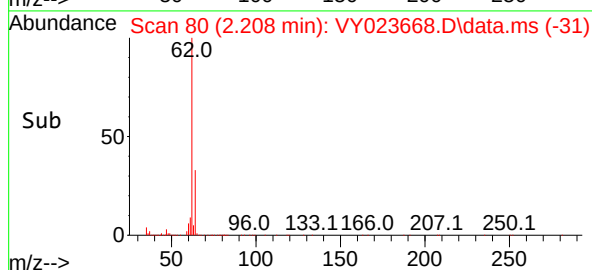
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

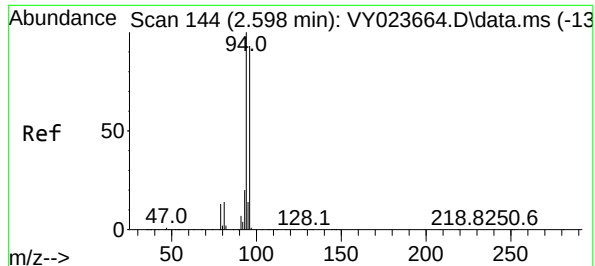


#4  
Vinyl Chloride  
Concen: 45.438 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14



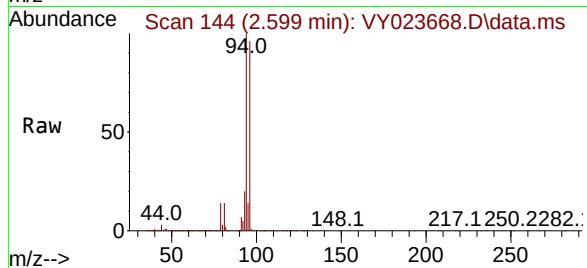
Tgt Ion: 62 Resp: 330280  
Ion Ratio Lower Upper  
62 100  
64 33.3 25.7 38.5





#5  
Bromomethane  
Concen: 45.434 ug/l  
RT: 2.599 min Scan# 144  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

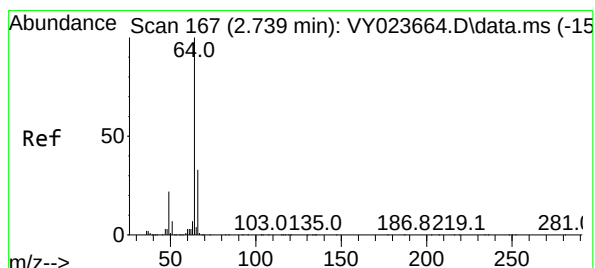
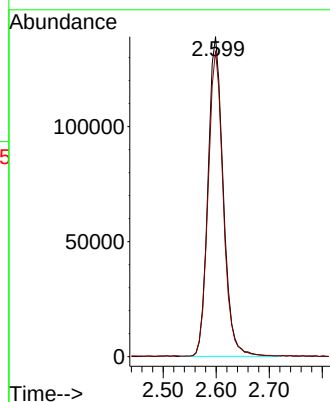
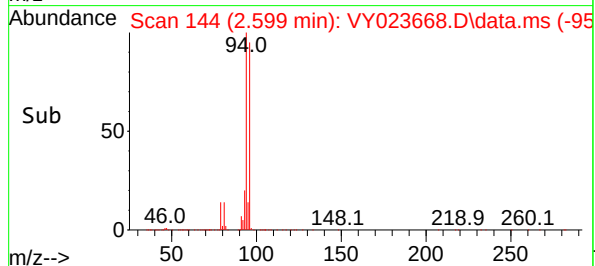
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



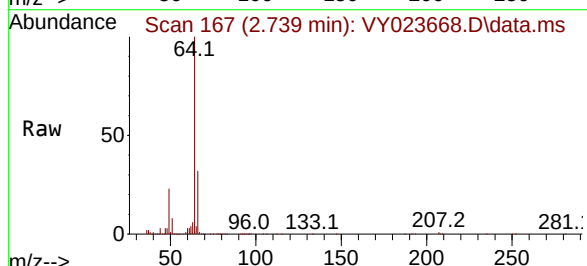
Tgt Ion: 94 Resp: 277800  
Ion Ratio Lower Upper  
94 100  
96 95.5 74.4 111.6

Manual Integrations  
APPROVED

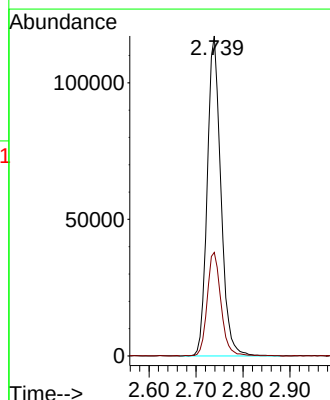
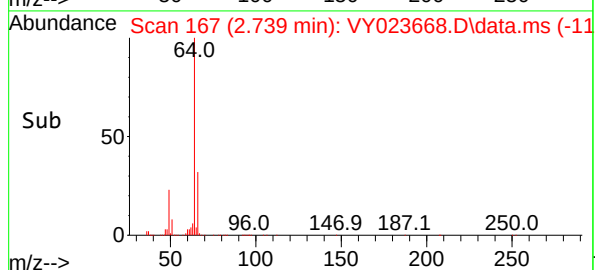
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

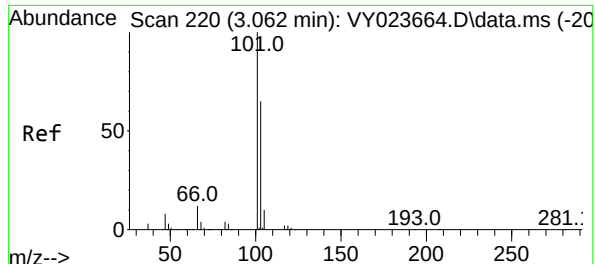


#6  
Chloroethane  
Concen: 46.809 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14



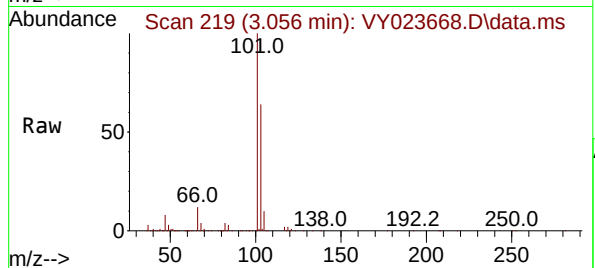
Tgt Ion: 64 Resp: 235159  
Ion Ratio Lower Upper  
64 100  
66 32.4 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 46.359 ug/l  
RT: 3.056 min Scan# 219  
Delta R.T. -0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

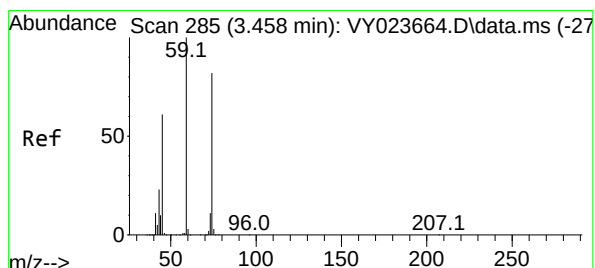
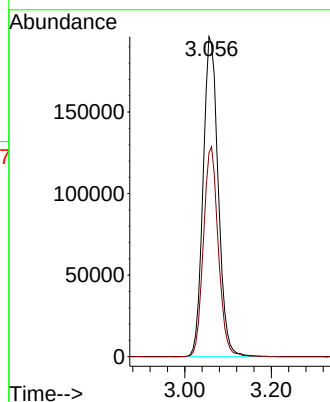
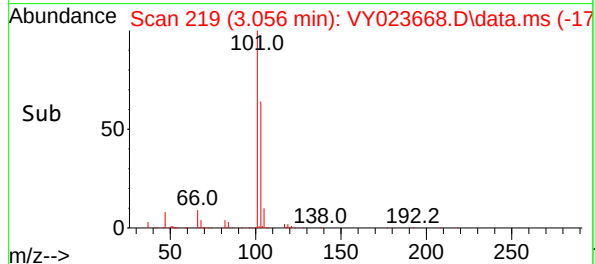
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:101 Resp: 47458  
Ion Ratio Lower Upper  
101 100  
103 63.7 52.1 78.1

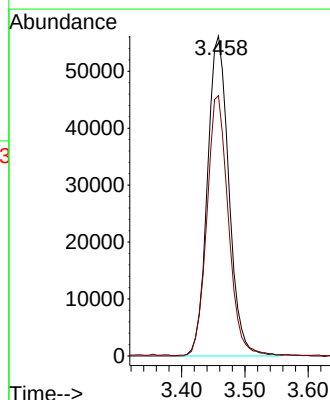
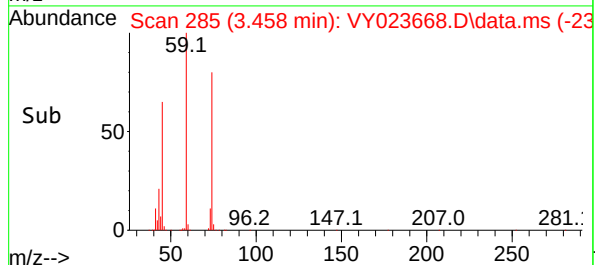
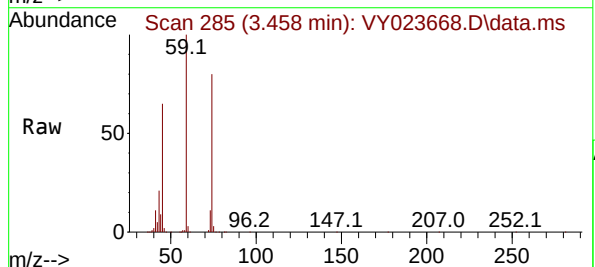
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

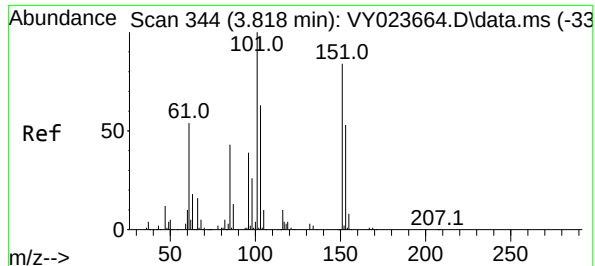


#8  
Diethyl Ether  
Concen: 48.252 ug/l  
RT: 3.458 min Scan# 285  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion: 74 Resp: 132465  
Ion Ratio Lower Upper  
74 100  
45 81.3 40.6 121.7







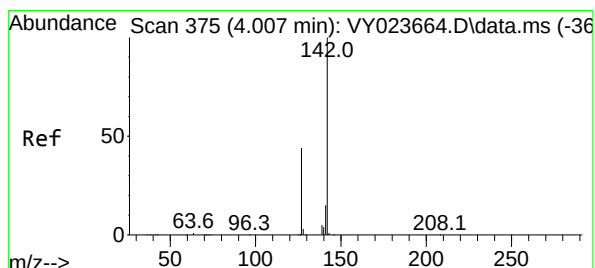
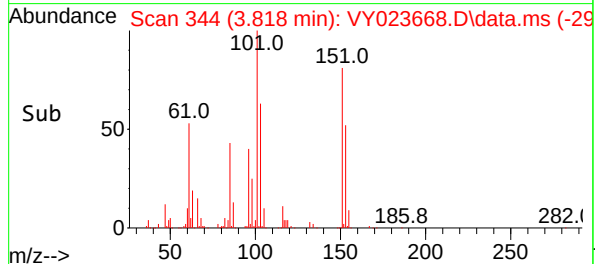
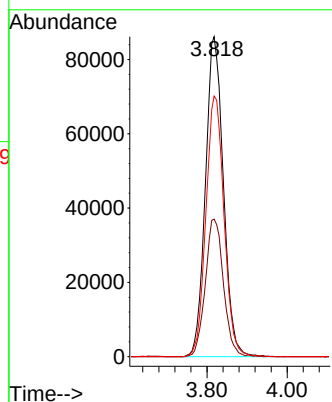
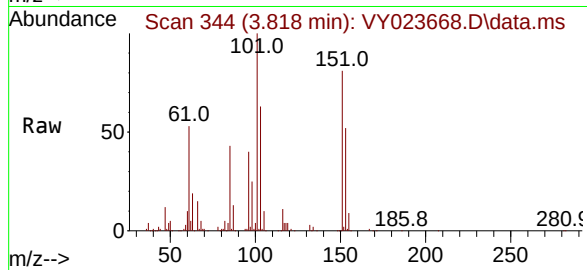
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 47.433 ug/l  
RT: 3.818 min Scan# 344  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425

Tgt Ion:101 Resp: 26753  
Ion Ratio Lower Upper  
101 100  
85 43.4 34.4 51.6  
151 82.3 65.6 98.4

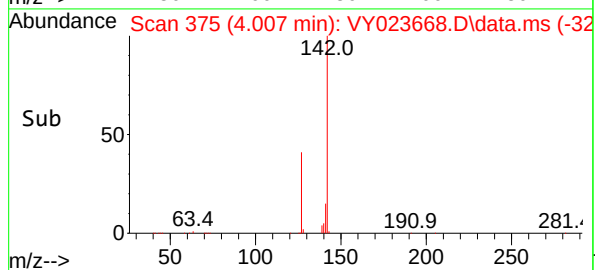
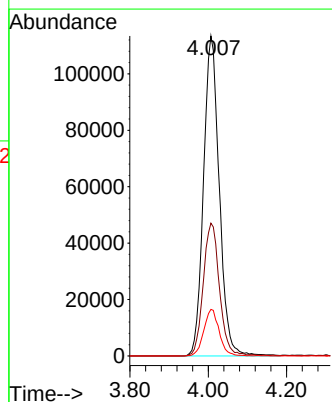
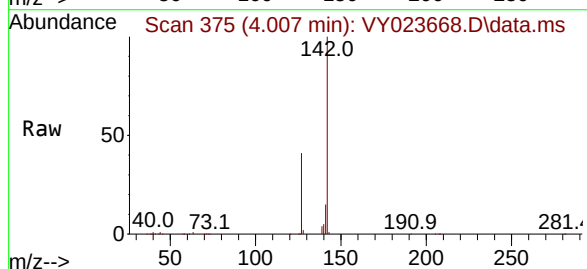
Manual Integrations  
APPROVED

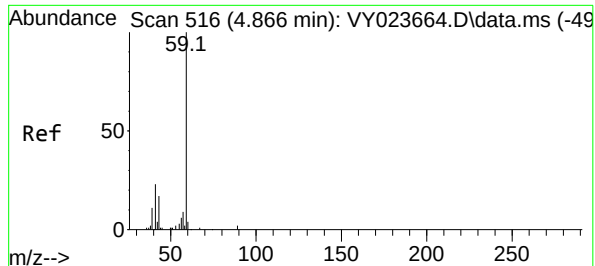
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#10  
Methyl Iodide  
Concen: 47.558 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion:142 Resp: 316753  
Ion Ratio Lower Upper  
142 100  
127 42.6 34.6 51.8  
141 14.2 11.6 17.4





#11

Tert butyl alcohol

Concen: 224.660 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 59 Resp: 75144

Ion Ratio Lower Upper

59 100

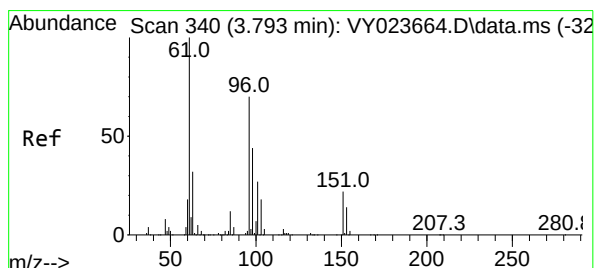
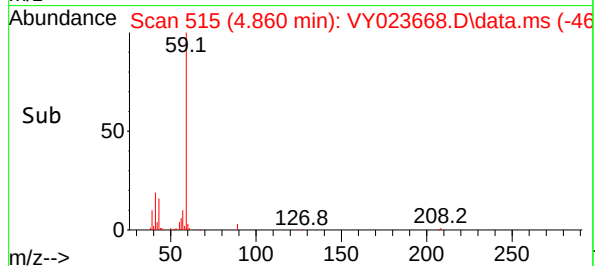
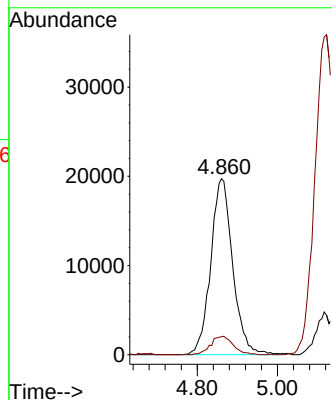
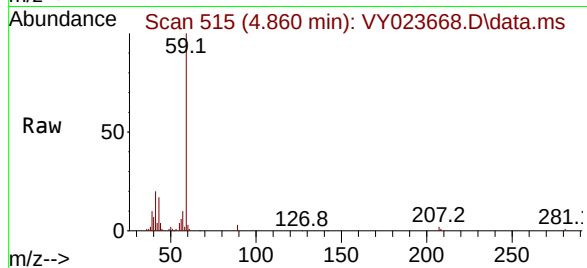
57 10.7 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#12

1,1-Dichloroethene

Concen: 48.194 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

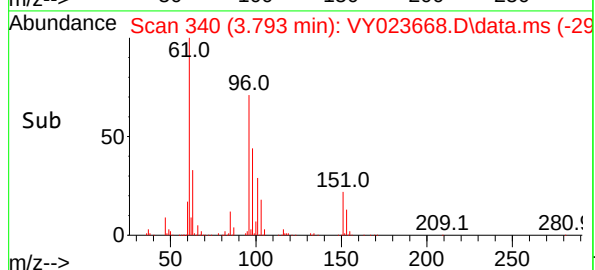
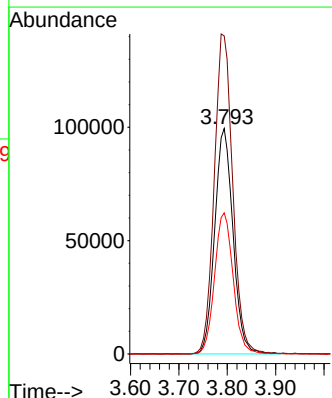
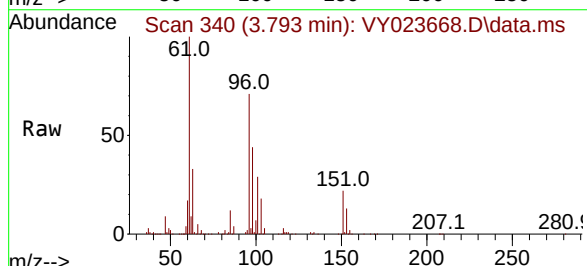
Tgt Ion: 96 Resp: 261851

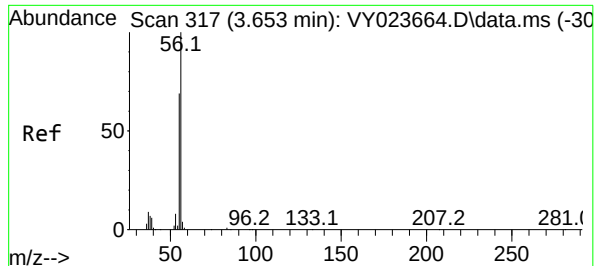
Ion Ratio Lower Upper

96 100

61 141.1 114.0 171.0

98 62.6 50.2 75.2





#13

Acrolein

Concen: 213.558 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 56 Resp: 9181

Ion Ratio Lower Upper

56 100

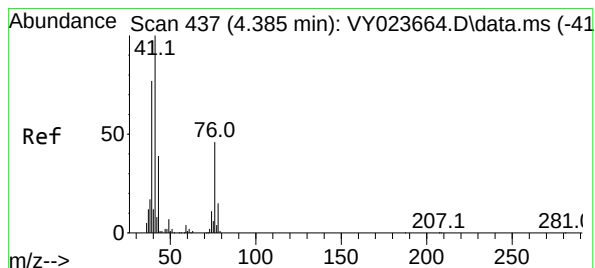
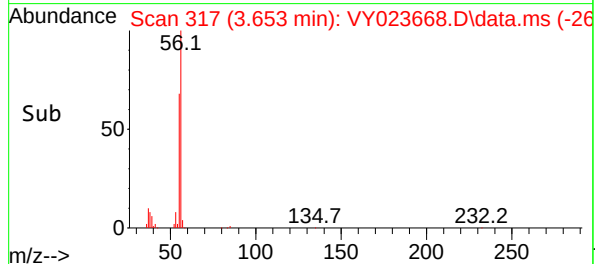
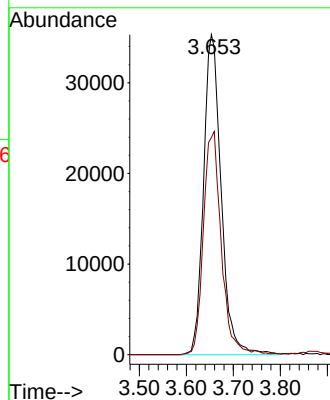
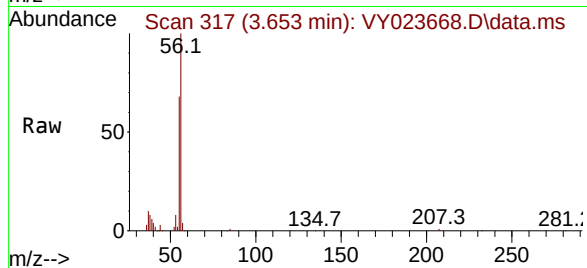
55 70.1 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#14

Allyl chloride

Concen: 50.006 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

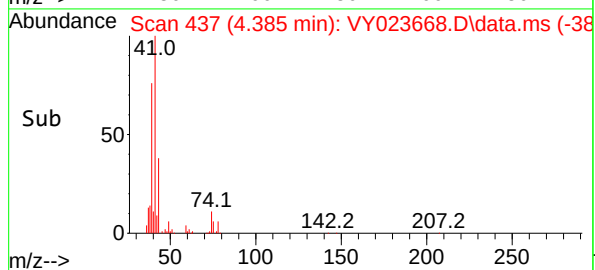
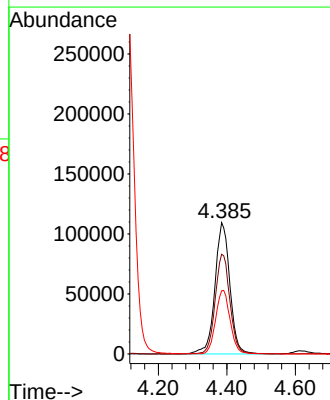
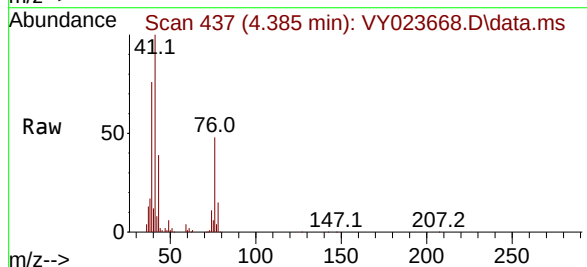
Tgt Ion: 41 Resp: 330702

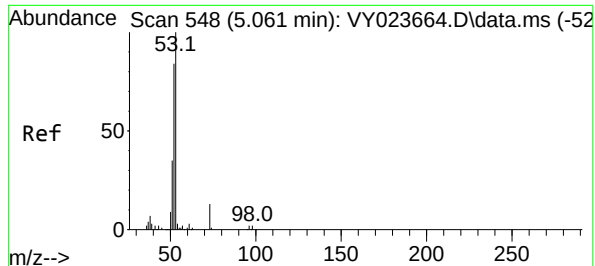
Ion Ratio Lower Upper

41 100

39 74.9 60.4 90.6

76 46.9 38.0 57.0





#15

Acrylonitrile

Concen: 245.434 ug/l

RT: 5.062 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 53 Resp: 25749

Ion Ratio Lower Upper

53 100

52 79.7 64.9 97.3

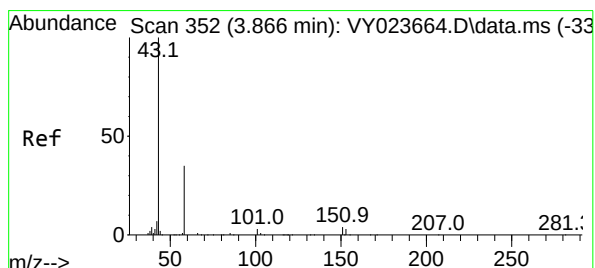
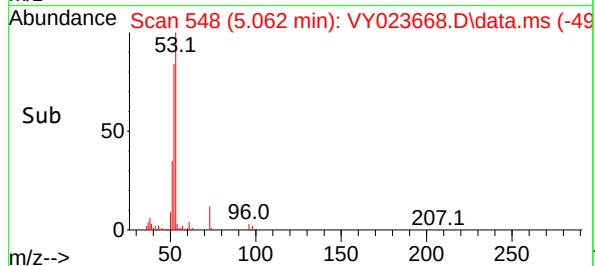
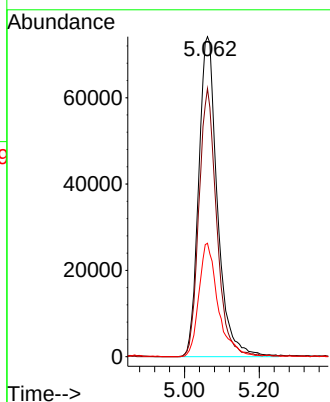
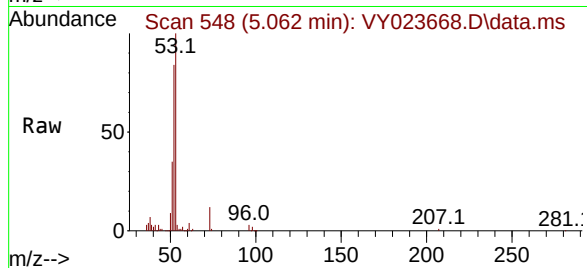
51 36.4 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#16

Acetone

Concen: 228.644 ug/l

RT: 3.867 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023668.D

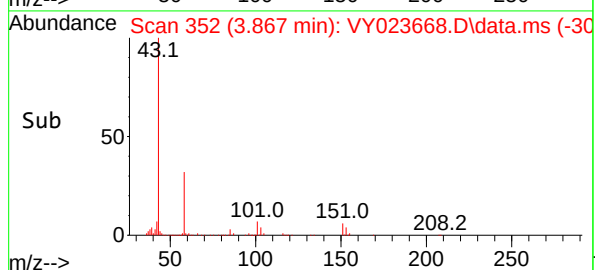
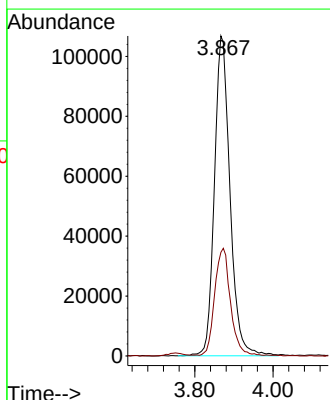
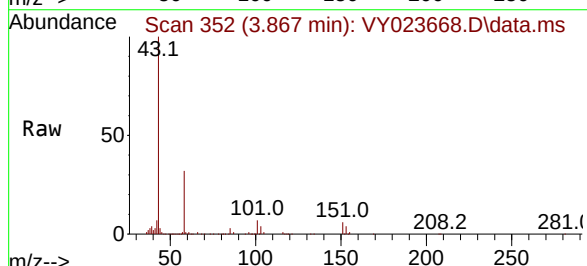
Acq: 04 Nov 2025 12:14

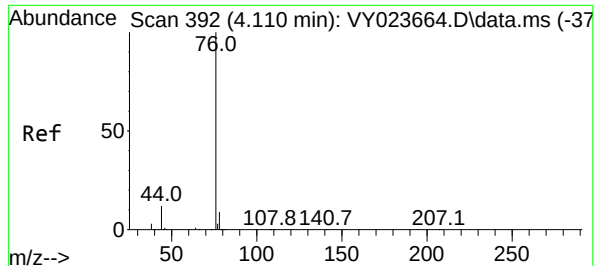
Tgt Ion: 43 Resp: 294814

Ion Ratio Lower Upper

43 100

58 32.3 28.2 42.4





#17

Carbon Disulfide

Concen: 47.235 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 76 Resp: 78769

Ion Ratio Lower Upper

76 100

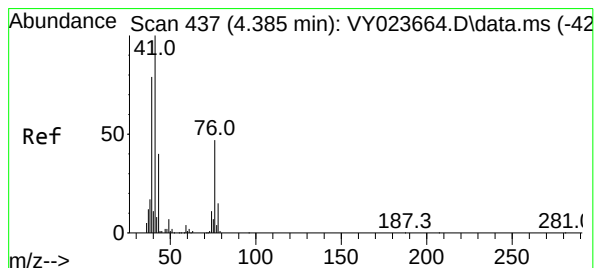
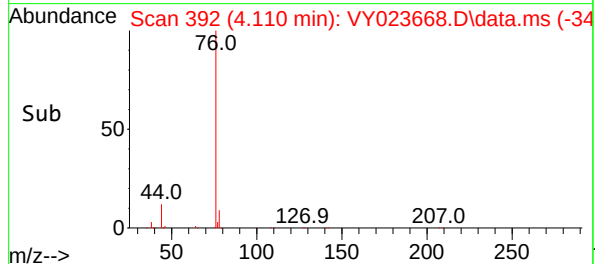
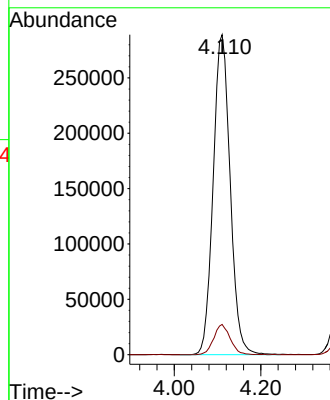
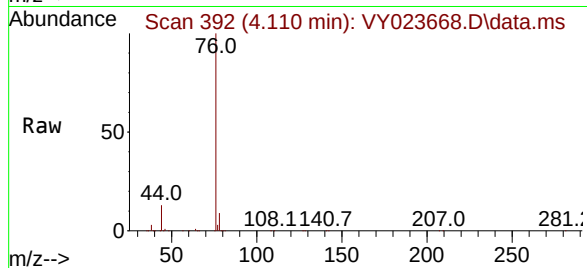
78 9.4 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#18

Methyl Acetate

Concen: 44.328 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023668.D

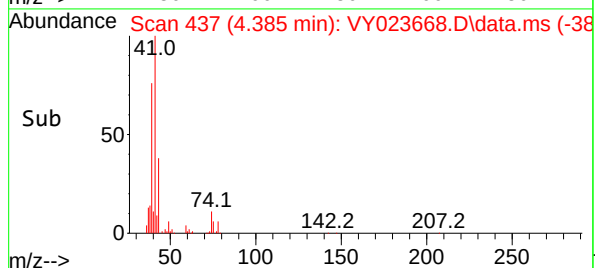
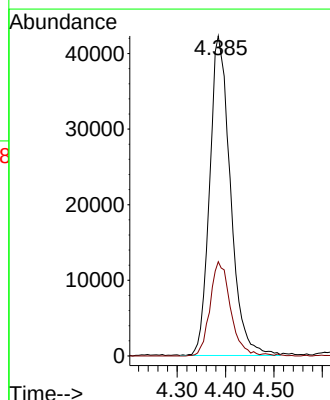
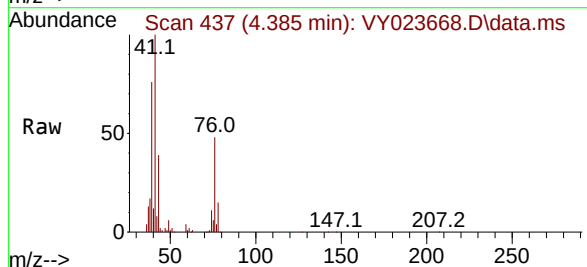
Acq: 04 Nov 2025 12:14

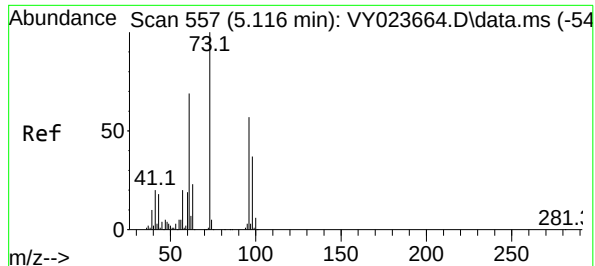
Tgt Ion: 43 Resp: 126071

Ion Ratio Lower Upper

43 100

74 29.0 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 51.062 ug/l

RT: 5.116 min Scan# 511

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 73 Resp: 643310

Ion Ratio Lower Upper

73 100

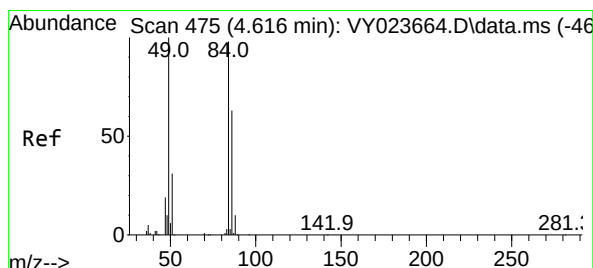
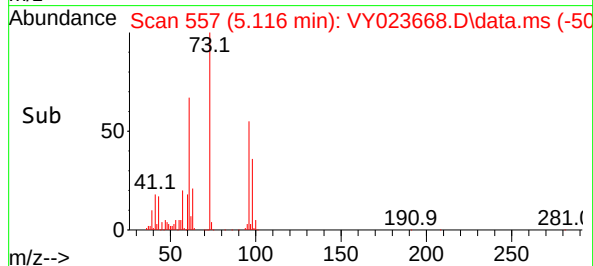
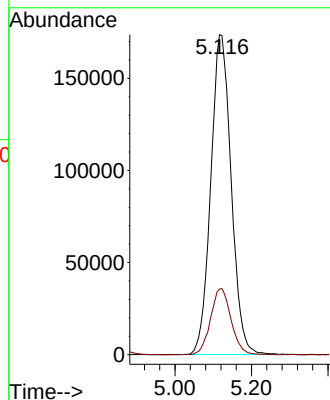
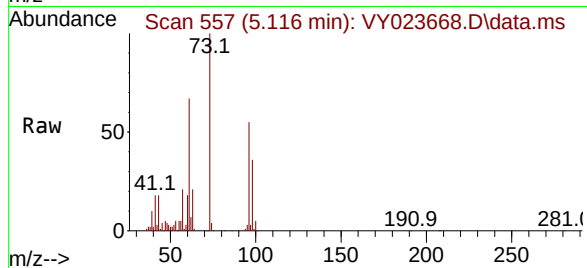
57 20.5 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#20

Methylene Chloride

Concen: 45.791 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Tgt Ion: 84 Resp: 285026

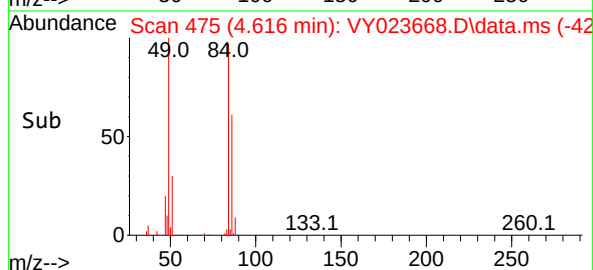
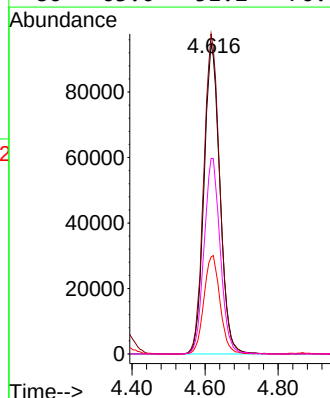
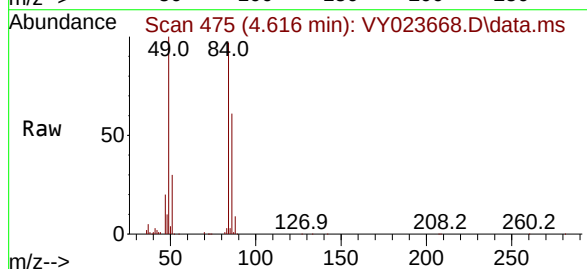
Ion Ratio Lower Upper

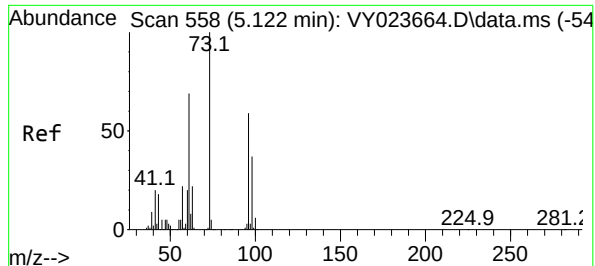
84 100

49 103.0 81.5 122.3

51 31.2 25.5 38.3

86 63.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 49.048 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 96 Resp: 30047

Ion Ratio Lower Upper

96 100

61 117.1 93.3 139.9

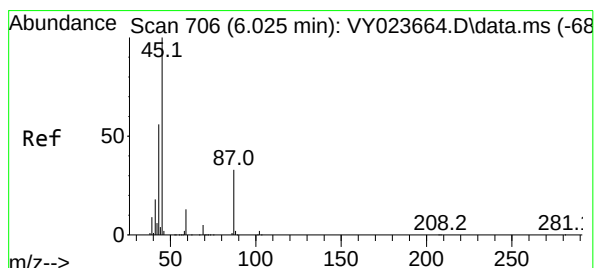
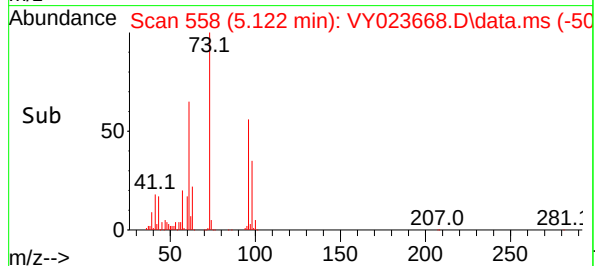
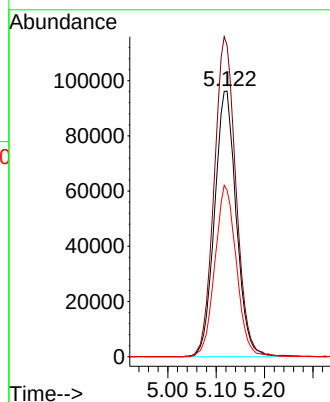
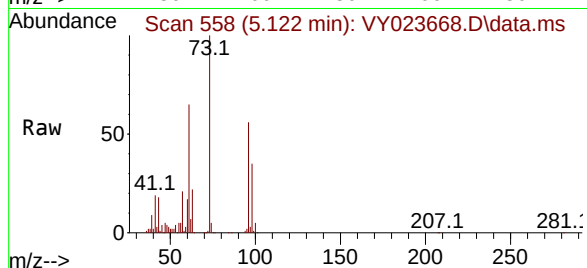
98 62.6 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#22

Diisopropyl ether

Concen: 51.273 ug/l

RT: 6.025 min Scan# 706

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Tgt Ion: 45 Resp: 755561

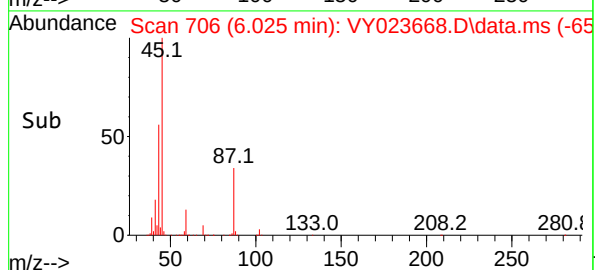
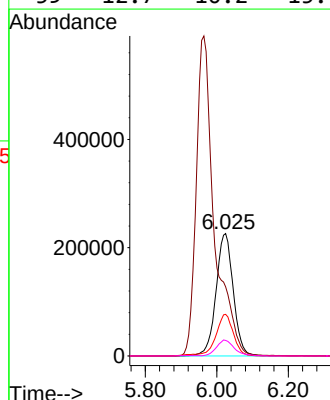
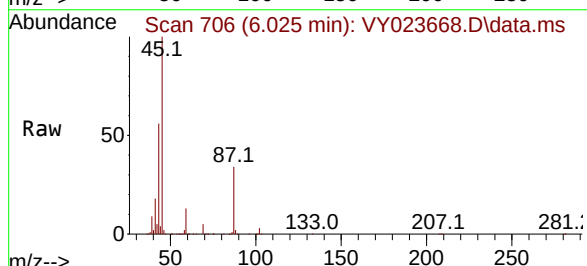
Ion Ratio Lower Upper

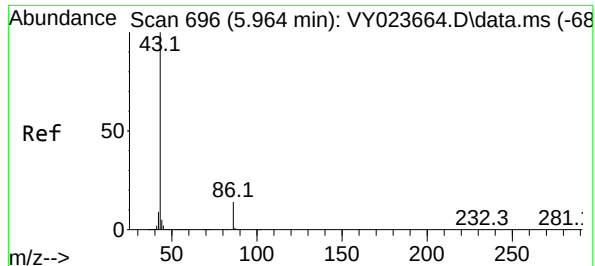
45 100

43 56.2 44.7 67.1

87 34.0 27.2 40.8

59 12.7 10.2 15.4





#23

Vinyl Acetate

Concen: 264.163 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 43 Resp: 207732

Ion Ratio Lower Upper

43 100

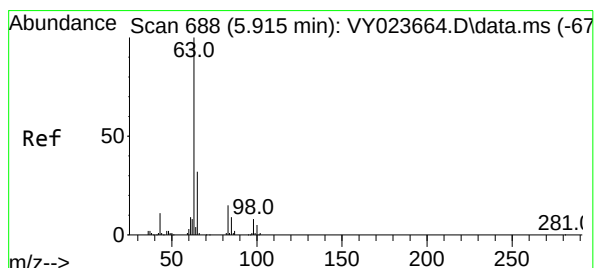
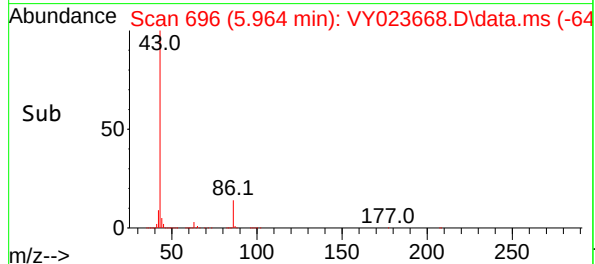
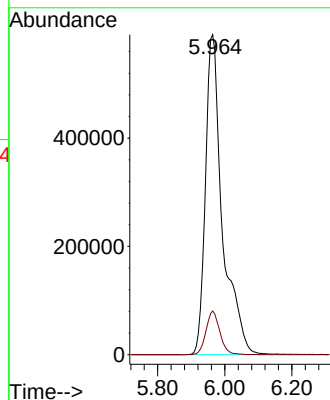
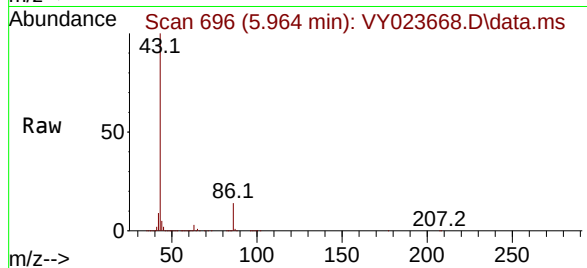
86 13.7 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#24

1,1-Dichloroethane

Concen: 48.064 ug/l

RT: 5.921 min Scan# 689

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

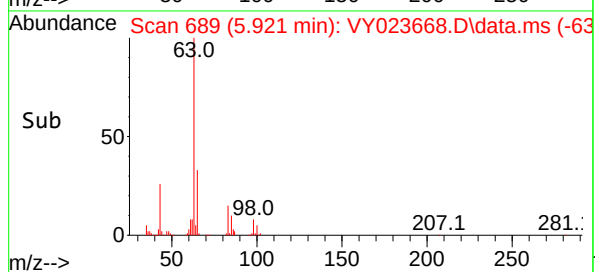
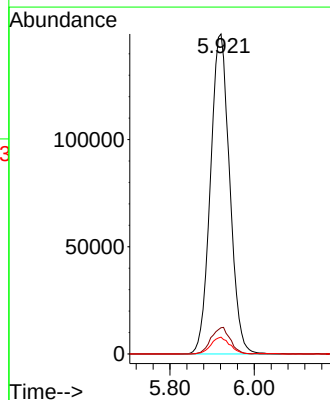
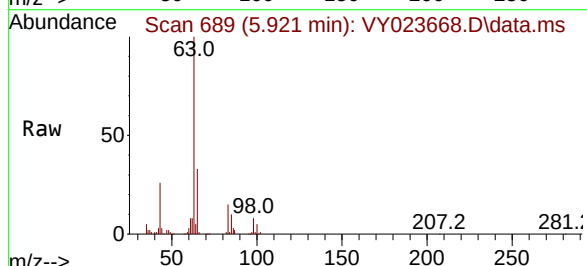
Tgt Ion: 63 Resp: 471845

Ion Ratio Lower Upper

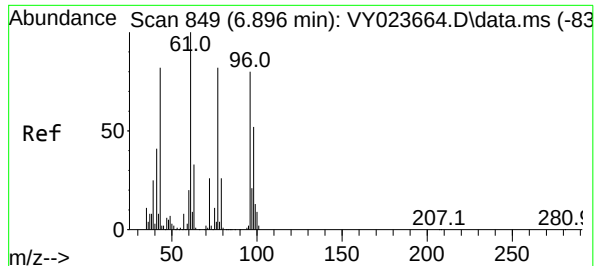
63 100

98 8.2 4.0 11.9

100 5.3 2.6 7.8







#25

2-Butanone

Concen: 236.507 ug/l

RT: 6.897 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 43 Resp: 35258

Ion Ratio Lower Upper

43 100

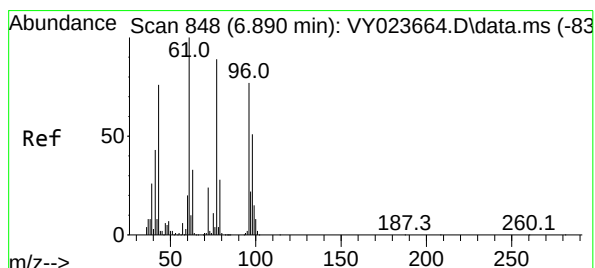
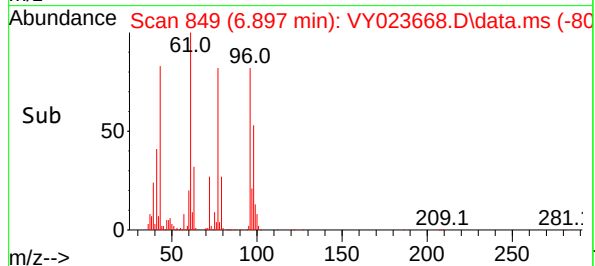
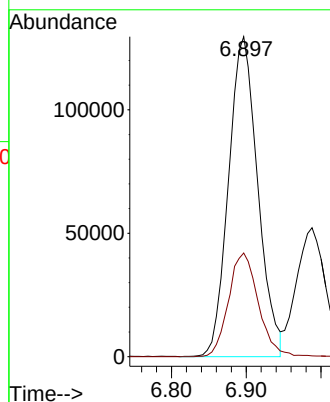
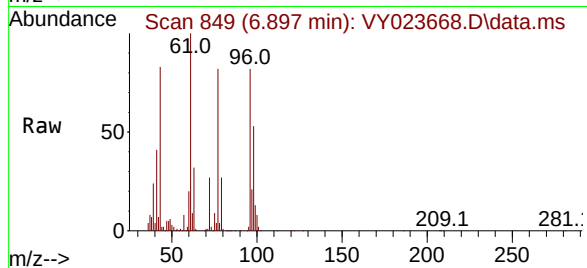
72 32.4 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#26

2,2-Dichloropropane

Concen: 48.402 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023668.D

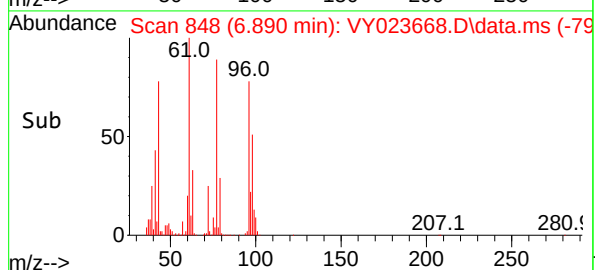
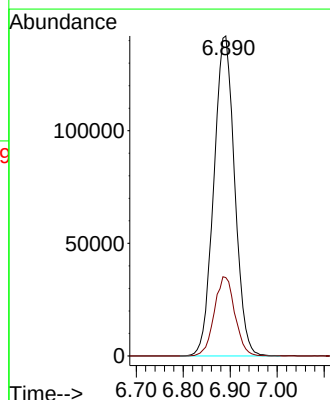
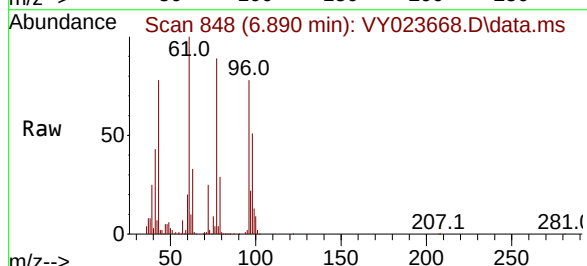
Acq: 04 Nov 2025 12:14

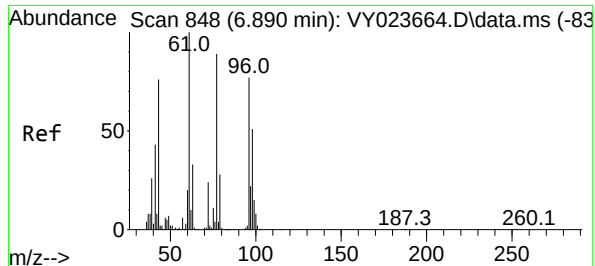
Tgt Ion: 77 Resp: 437078

Ion Ratio Lower Upper

77 100

97 24.5 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 49.682 ug/l

RT: 6.897 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 96 Resp: 34760

Ion Ratio Lower Upper

96 100

61 128.3 0.0 255.0

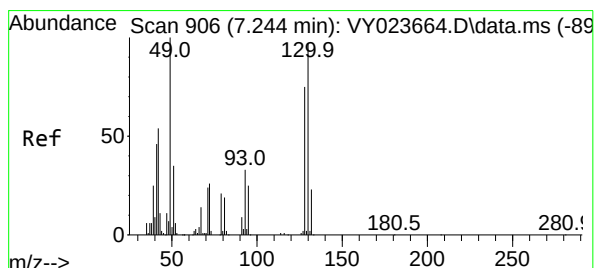
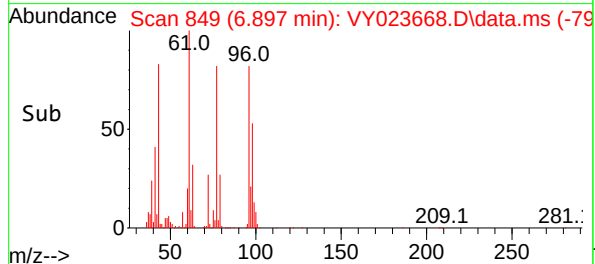
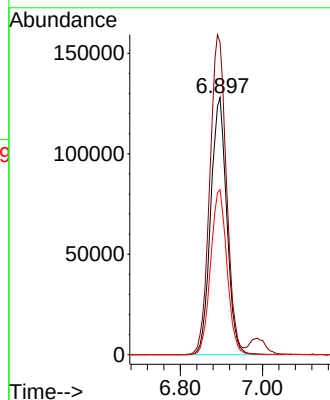
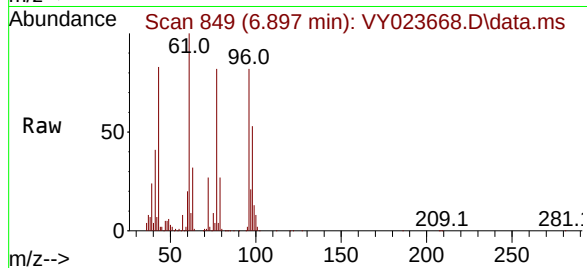
98 65.1 0.0 129.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#28

Bromochloromethane

Concen: 46.849 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

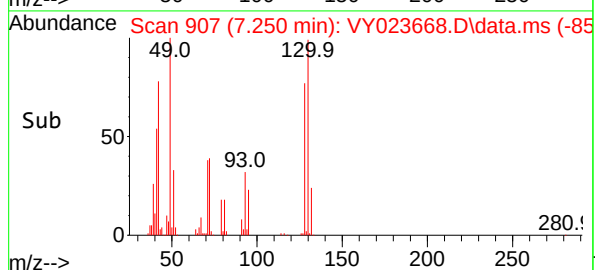
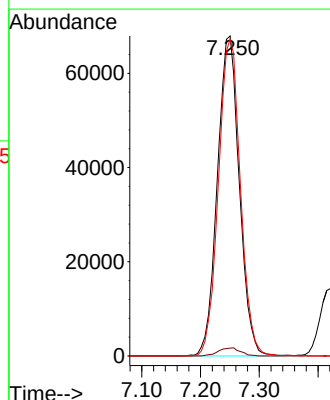
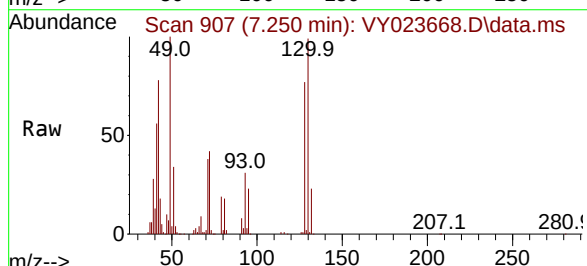
Tgt Ion: 49 Resp: 176101

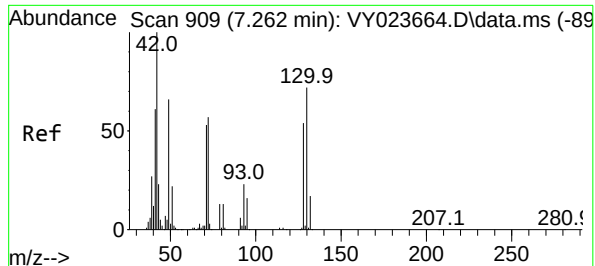
Ion Ratio Lower Upper

49 100

129 2.6 0.0 5.0

130 98.8 80.1 120.1





#29

Tetrahydrofuran

Concen: 250.229 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 42 Resp: 19866

Ion Ratio Lower Upper

42 100

72 54.9 43.4 65.2

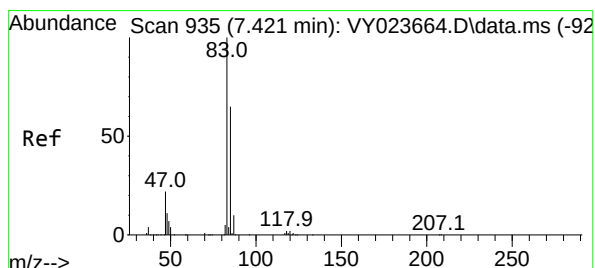
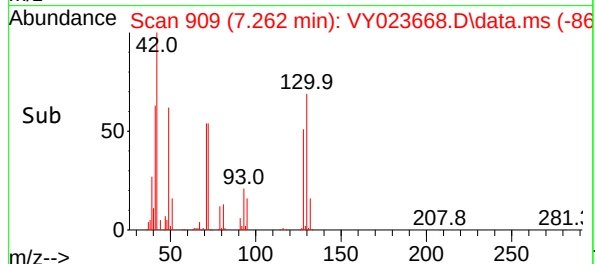
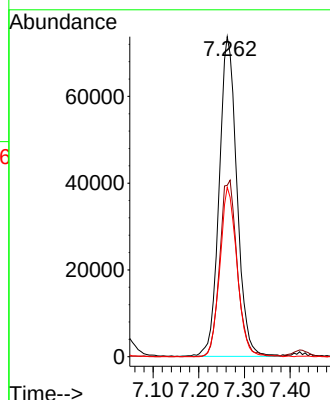
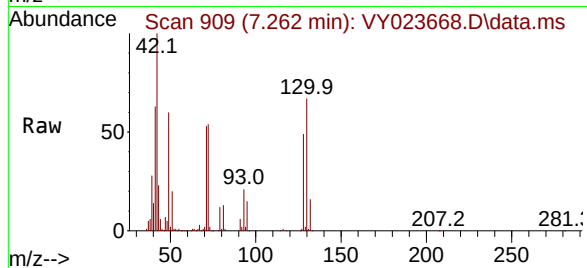
71 51.4 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#30

Chloroform

Concen: 47.888 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023668.D

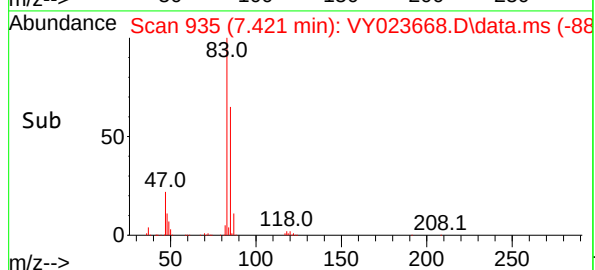
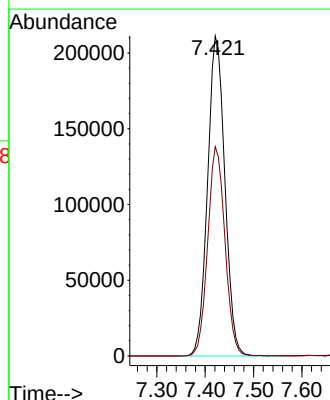
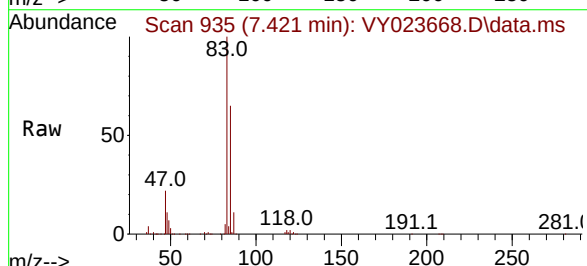
Acq: 04 Nov 2025 12:14

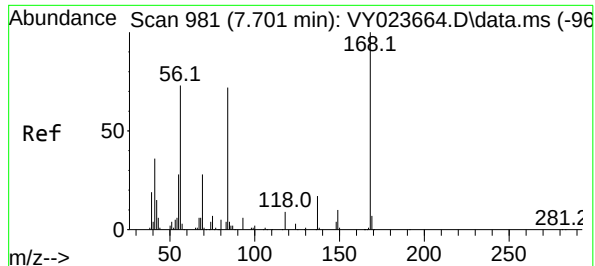
Tgt Ion: 83 Resp: 524526

Ion Ratio Lower Upper

83 100

85 65.4 52.1 78.1





#31

Cyclohexane

Concen: 48.520 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 56 Resp: 41480

Ion Ratio Lower Upper

56 100

69 36.0 30.5 45.7

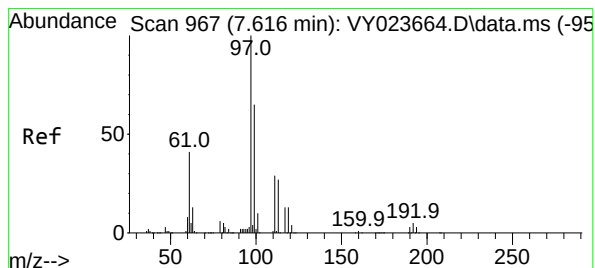
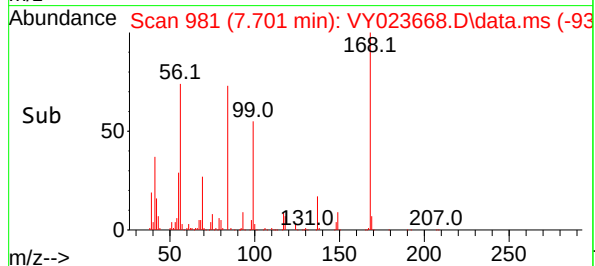
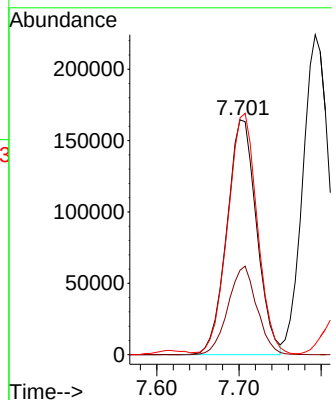
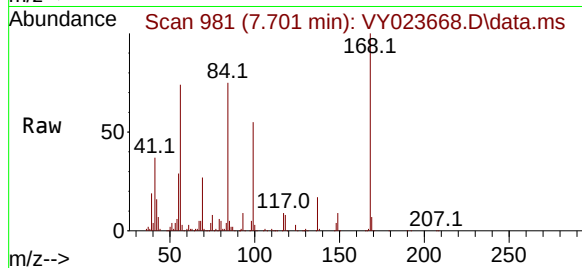
84 99.5 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#32

1,1,1-Trichloroethane

Concen: 48.137 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

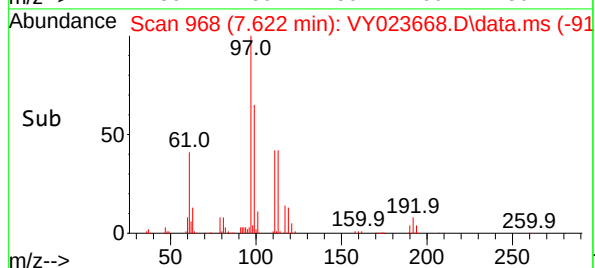
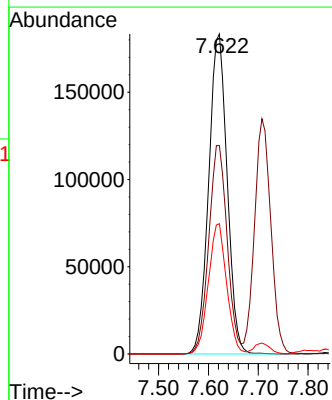
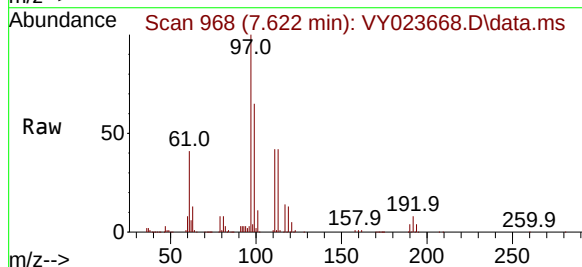
Tgt Ion: 97 Resp: 471242

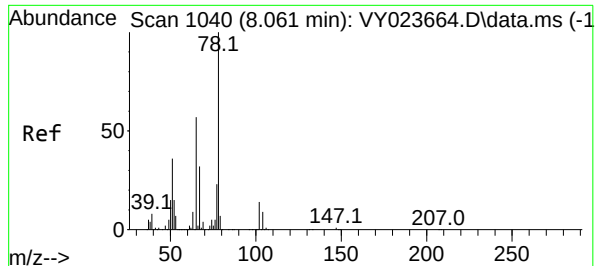
Ion Ratio Lower Upper

97 100

99 65.0 51.5 77.3

61 40.4 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 46.805 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 65 Resp: 24279

Ion Ratio Lower Upper

65 100

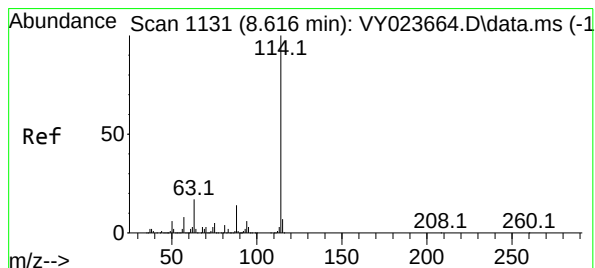
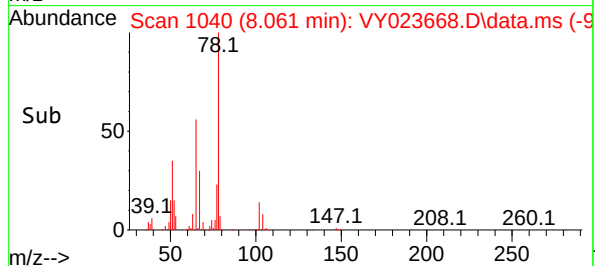
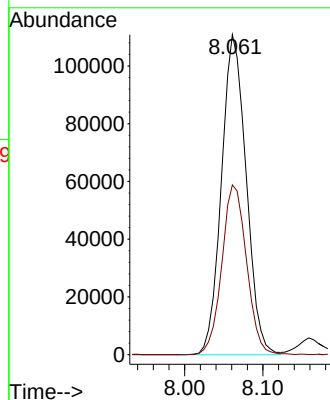
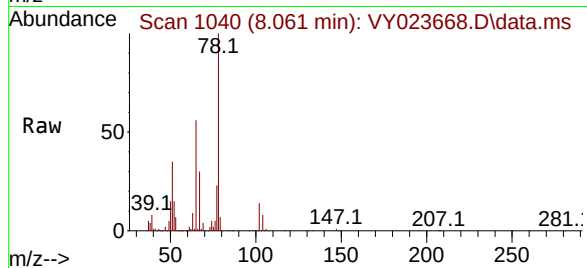
67 53.2 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

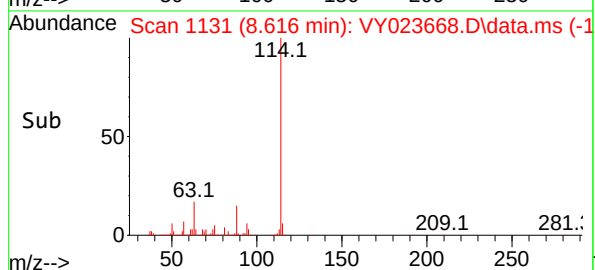
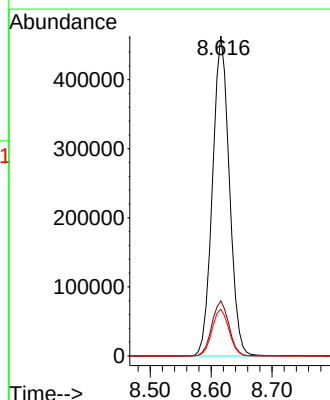
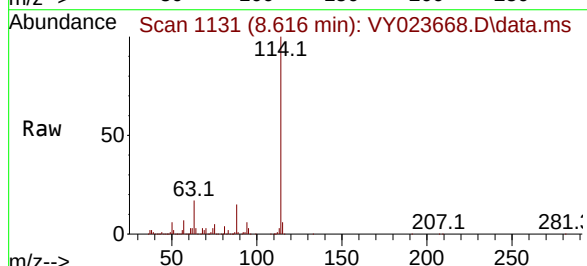
Tgt Ion:114 Resp: 888282

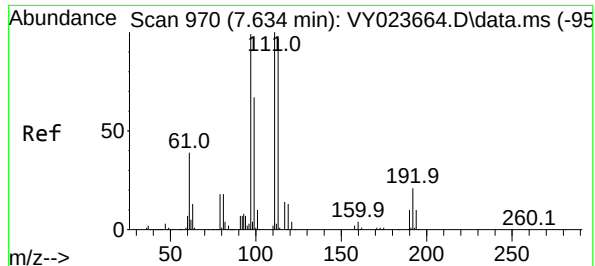
Ion Ratio Lower Upper

114 100

63 17.2 0.0 33.8

88 14.6 0.0 29.0





#35

Dibromofluoromethane

Concen: 48.291 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion:113 Resp: 268074

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

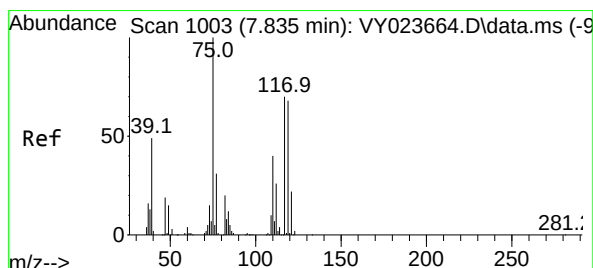
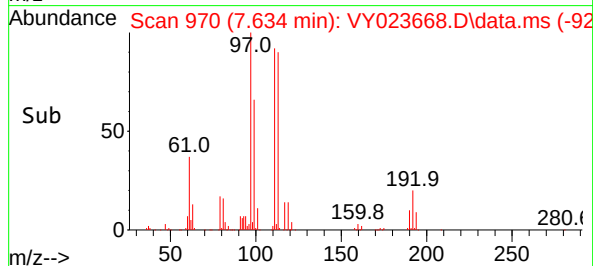
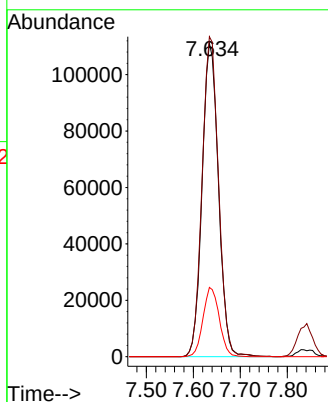
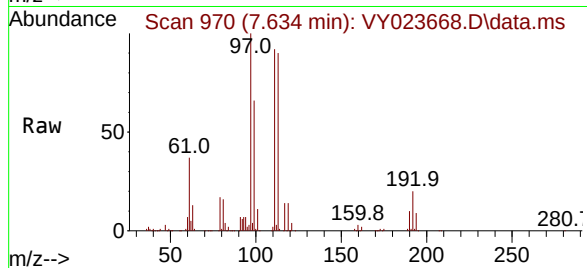
192 21.9 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#36

1,1-Dichloropropene

Concen: 49.878 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

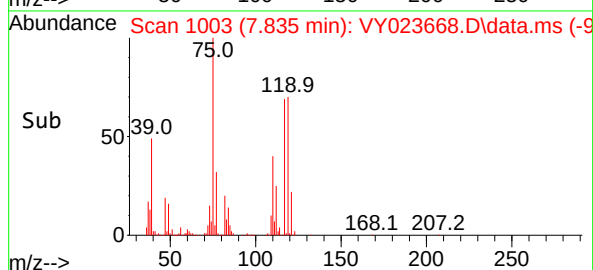
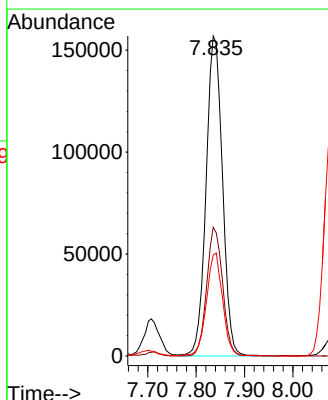
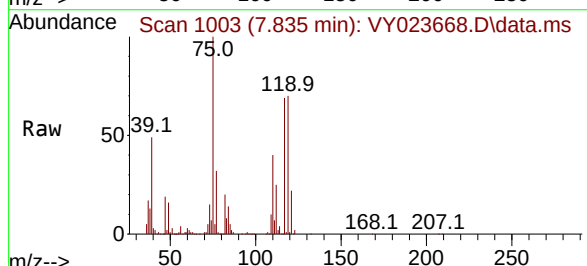
Tgt Ion: 75 Resp: 369989

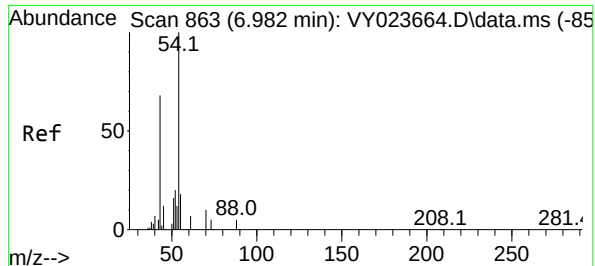
Ion Ratio Lower Upper

75 100

110 39.0 19.7 59.0

77 31.5 25.2 37.8





#37

Ethyl Acetate

Concen: 50.997 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023668.D

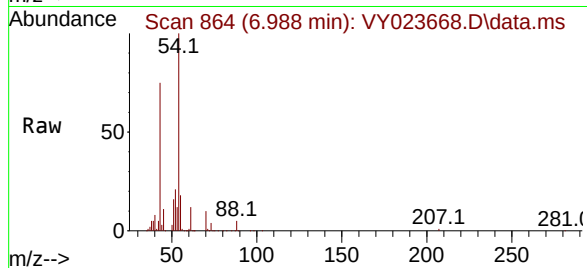
Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425



Tgt Ion: 43 Resp: 14644

Ion Ratio Lower Upper

43 100

61 15.8 12.4 18.6

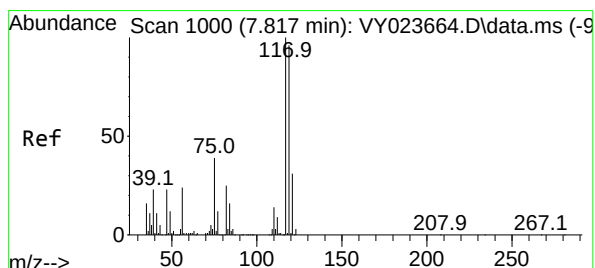
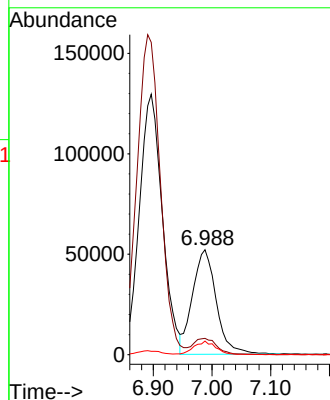
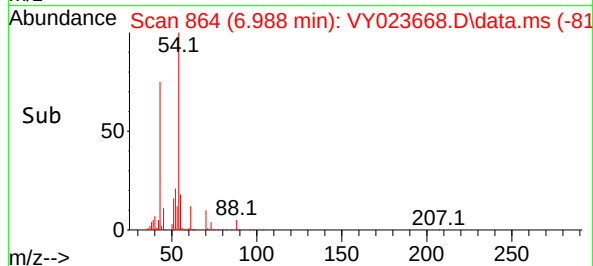
70 11.5 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#38

Carbon Tetrachloride

Concen: 49.462 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

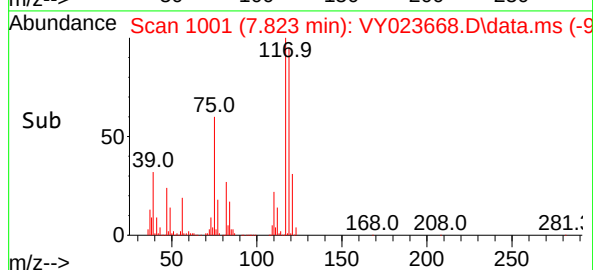
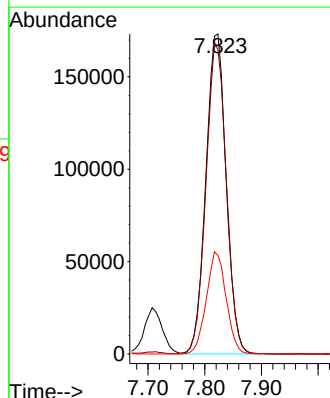
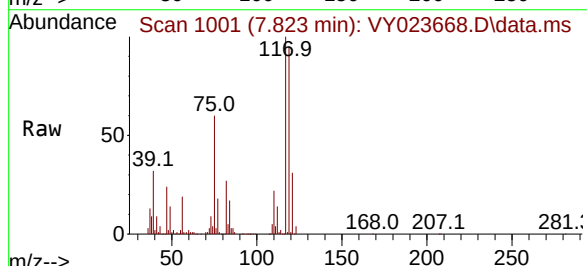
Tgt Ion:117 Resp: 432288

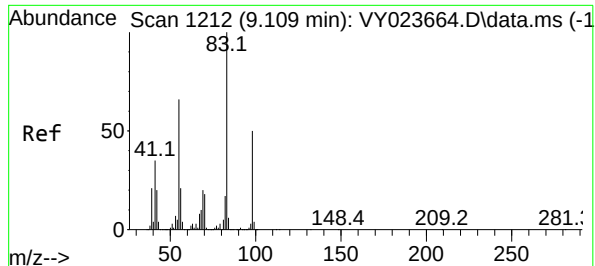
Ion Ratio Lower Upper

117 100

119 95.2 76.3 114.5

121 30.7 24.8 37.2





#39

Methylcyclohexane

Concen: 52.876 ug/l

RT: 9.110 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 83 Resp: 501162

Ion Ratio Lower Upper

83 100

55 67.7 52.6 78.8

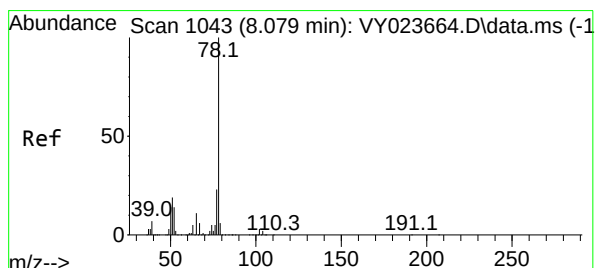
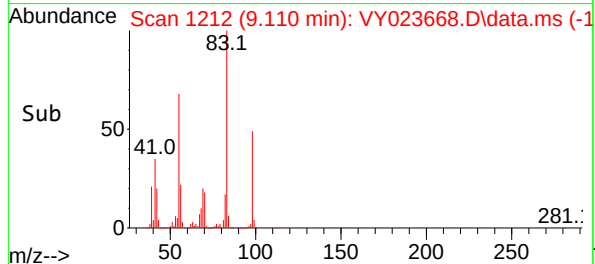
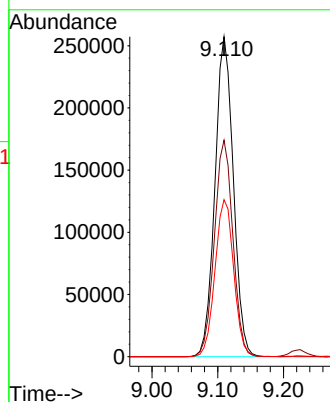
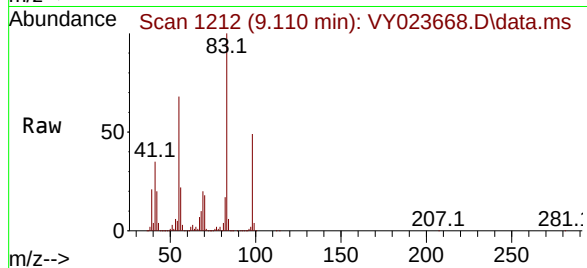
98 49.0 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#40

Benzene

Concen: 49.773 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023668.D

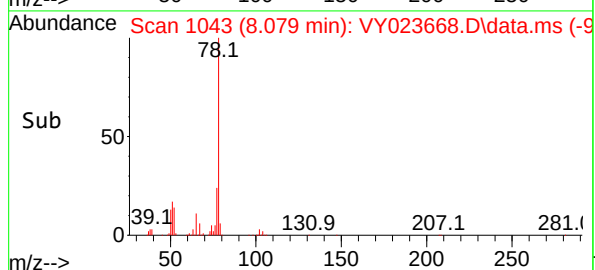
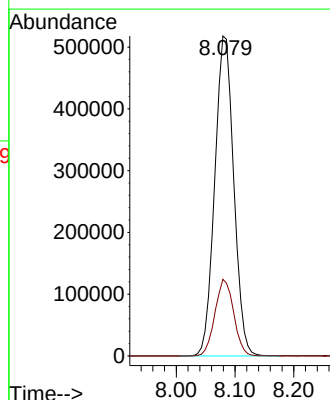
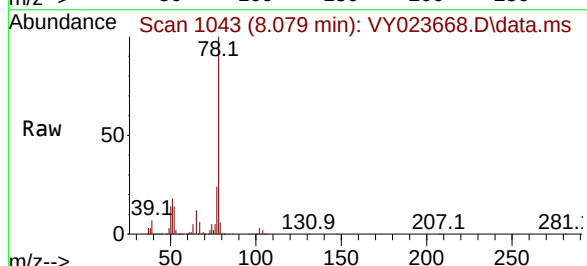
Acq: 04 Nov 2025 12:14

Tgt Ion: 78 Resp: 1163766

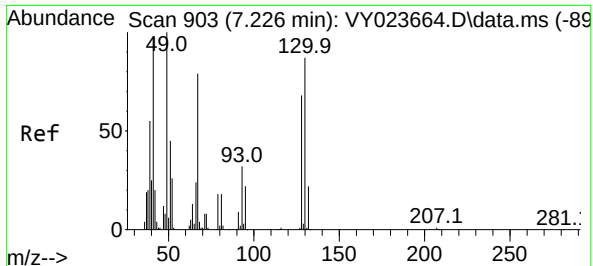
Ion Ratio Lower Upper

78 100

77 23.9 18.8 28.2

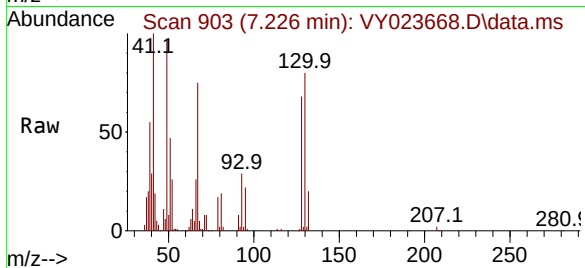






#41  
Methacrylonitrile  
Concen: 43.412 ug/l  
RT: 7.226 min Scan# 903  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

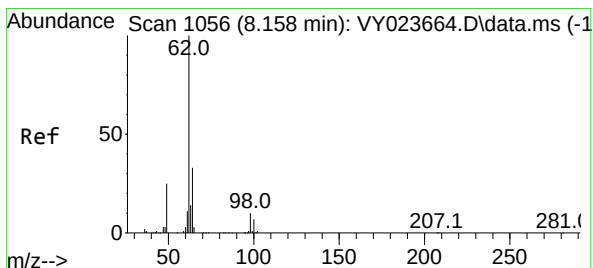
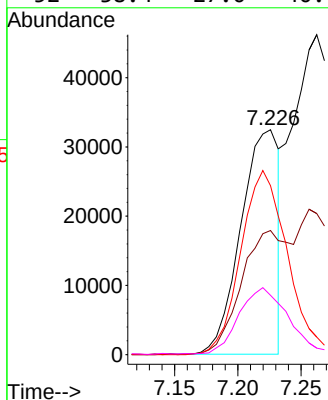
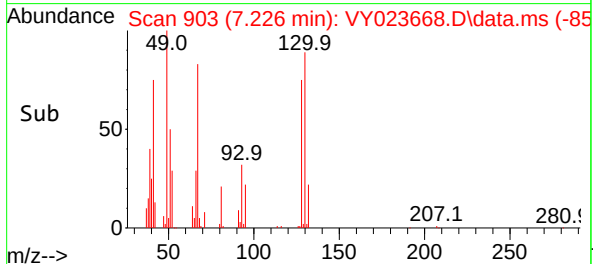
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



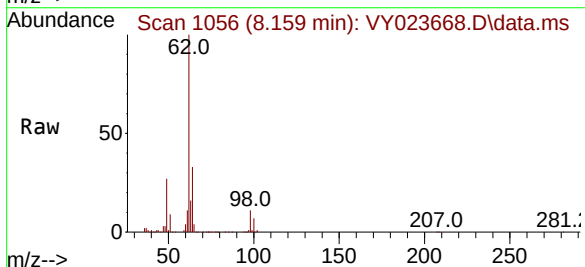
Tgt Ion: 41 Resp: 68040  
Ion Ratio Lower Upper  
41 100  
39 72.7 38.6 57.8  
67 101.3 71.3 106.9  
52 38.4 27.0 40.4

Manual Integrations  
APPROVED

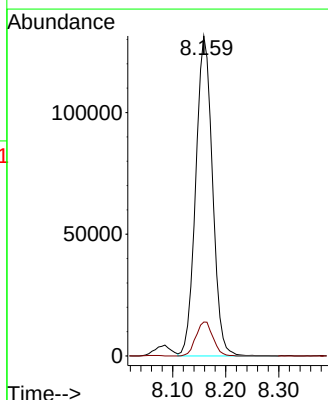
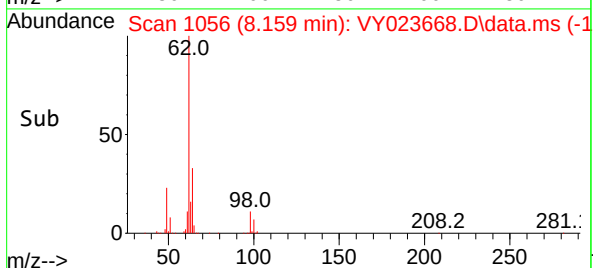
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

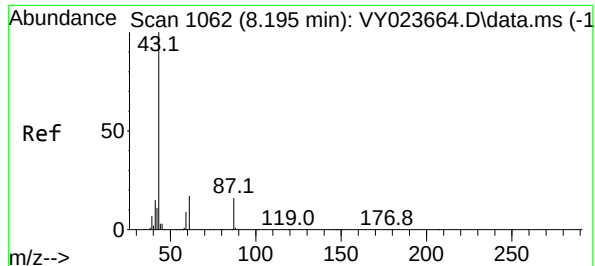


#42  
1,2-Dichloroethane  
Concen: 48.630 ug/l  
RT: 8.159 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14



Tgt Ion: 62 Resp: 287665  
Ion Ratio Lower Upper  
62 100  
98 10.9 0.0 21.0





#43

Isopropyl Acetate

Concen: 51.490 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 43 Resp: 277810

Ion Ratio Lower Upper

43 100

61 33.2 18.2 27.2

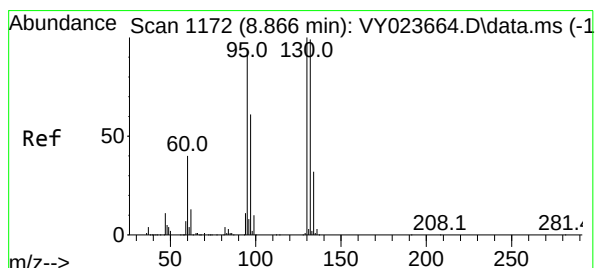
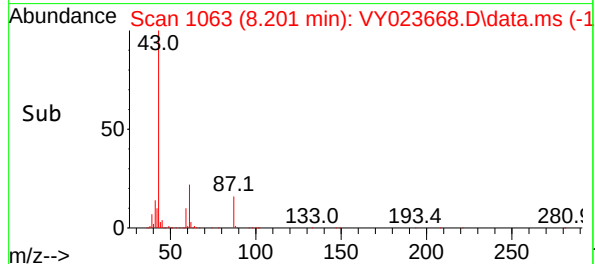
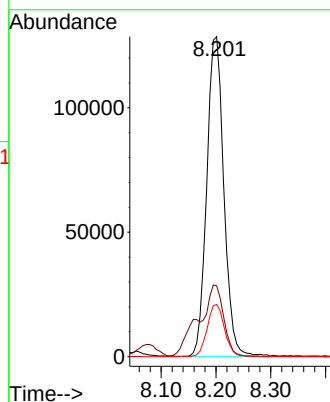
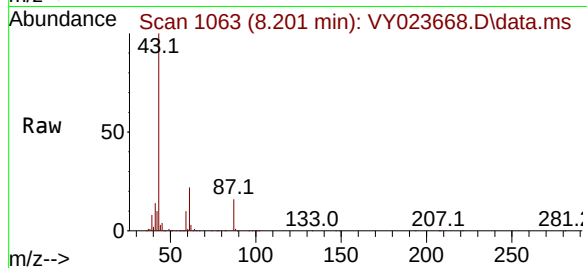
87 16.5 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#44

Trichloroethene

Concen: 48.741 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023668.D

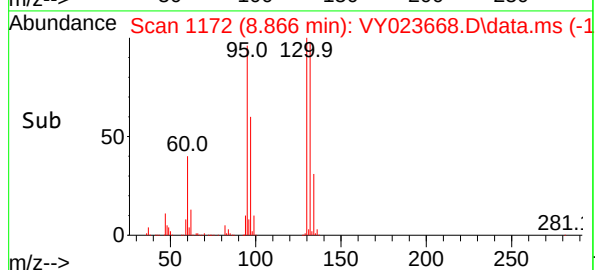
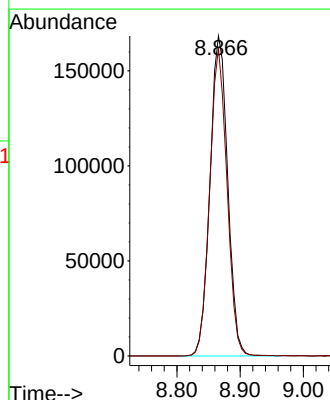
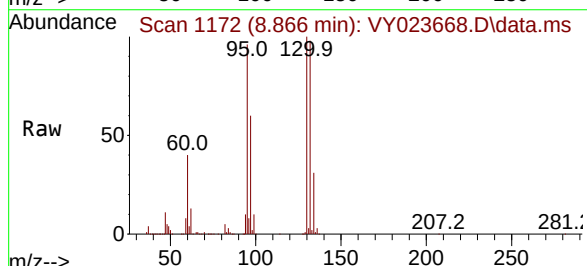
Acq: 04 Nov 2025 12:14

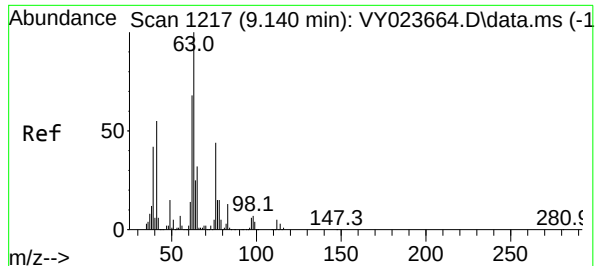
Tgt Ion:130 Resp: 327327

Ion Ratio Lower Upper

130 100

95 96.2 0.0 187.0





#45

1,2-Dichloropropane

Concen: 49.835 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 63 Resp: 25716

Ion Ratio Lower Upper

63 100

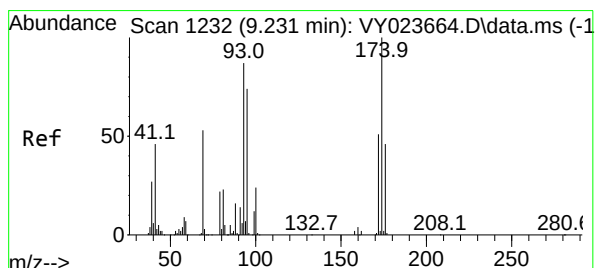
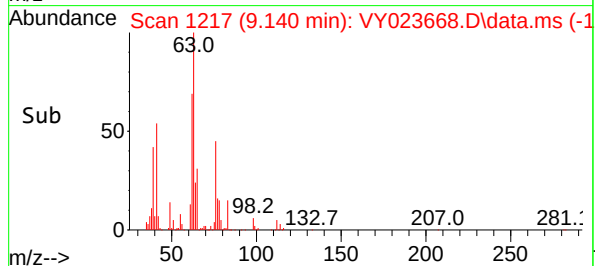
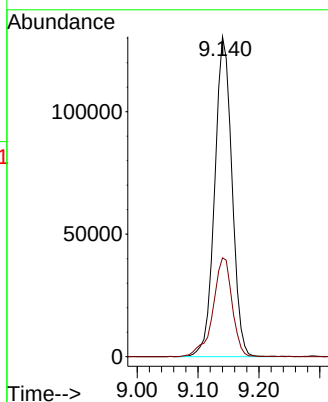
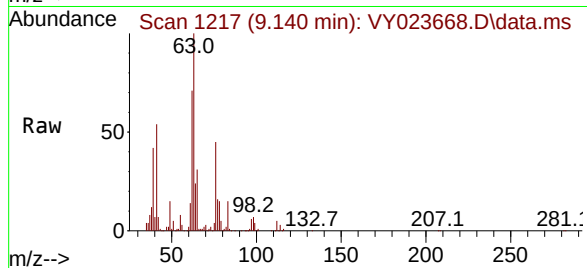
65 30.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#46

Dibromomethane

Concen: 49.780 ug/l

RT: 9.232 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

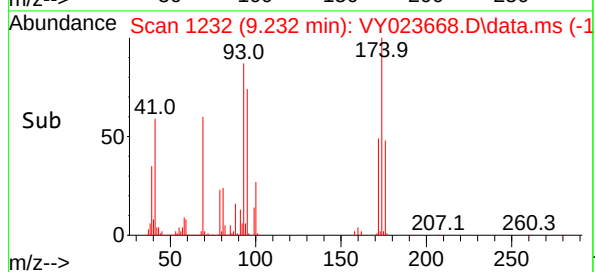
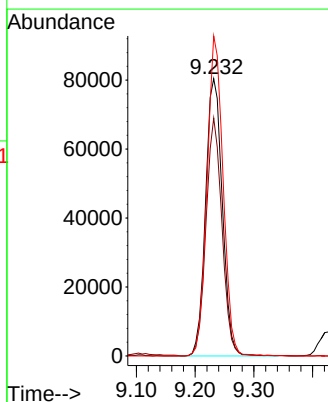
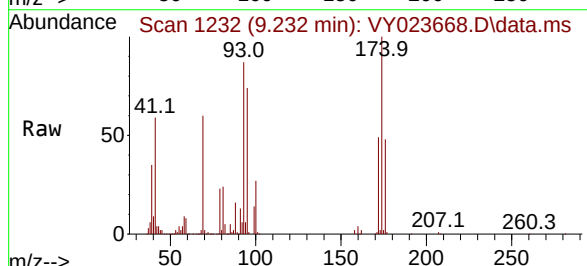
Tgt Ion: 93 Resp: 159165

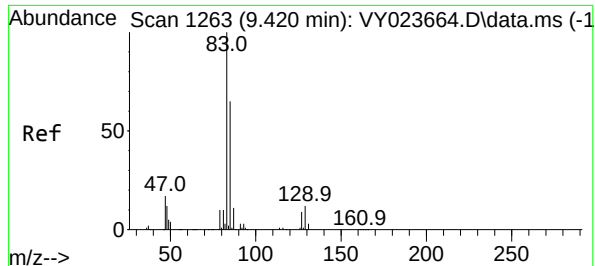
Ion Ratio Lower Upper

93 100

95 81.9 67.4 101.2

174 110.6 89.4 134.0





#47

Bromodichloromethane

Concen: 49.512 ug/l

RT: 9.420 min Scan# 1263

Delta R.T. 0.000 min

Lab File: VY023668.D

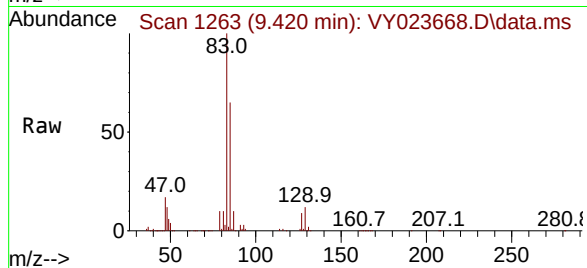
Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425



Tgt Ion: 83 Resp: 39913

Ion Ratio Lower Upper

83 100

85 64.8 52.1 78.1

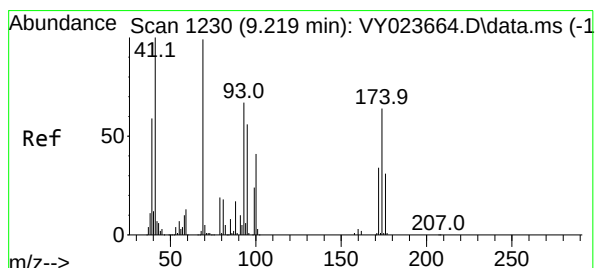
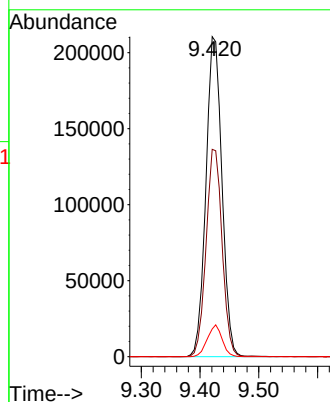
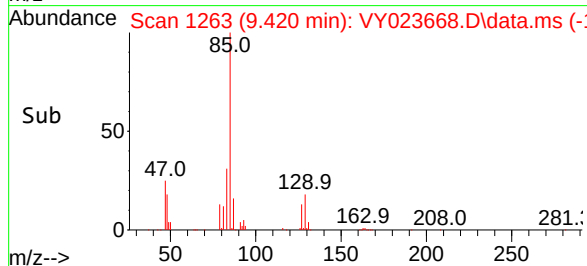
127 8.7 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#48

Methyl methacrylate

Concen: 53.056 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

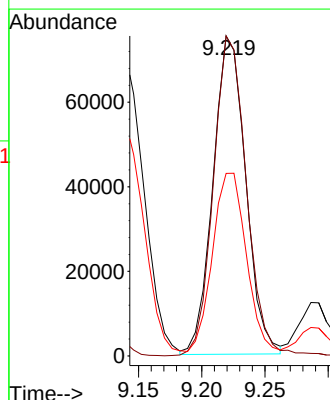
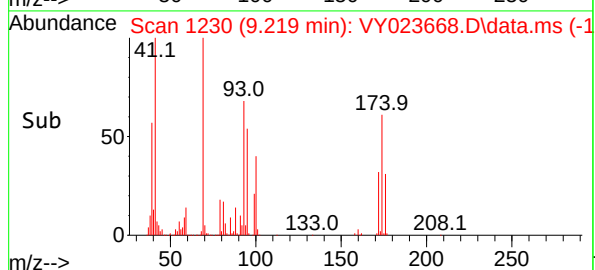
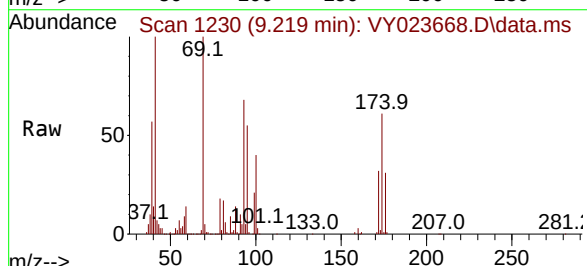
Tgt Ion: 41 Resp: 135247

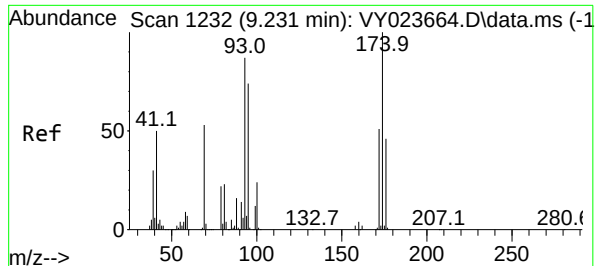
Ion Ratio Lower Upper

41 100

69 101.2 80.2 120.2

39 57.7 47.4 71.0





#49

1,4-Dioxane

Concen: 1001.883 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. -0.006 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion: 88 Resp: 3278

Ion Ratio Lower Upper

88 100

43 27.9 22.0 33.0

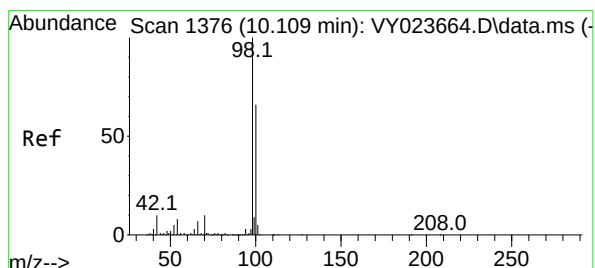
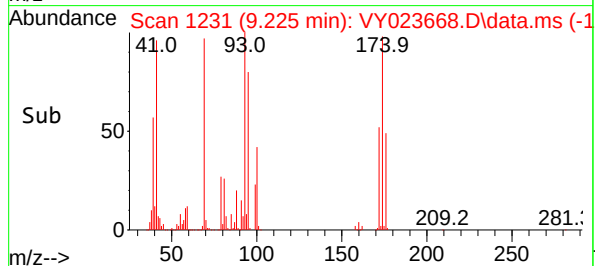
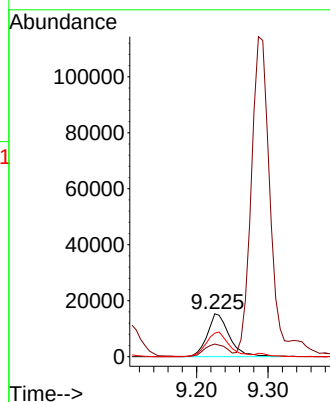
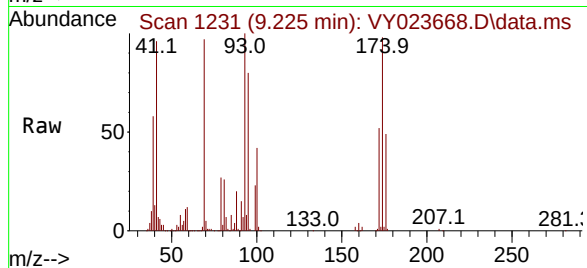
58 59.8 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#50

Toluene-d8

Concen: 50.309 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023668.D

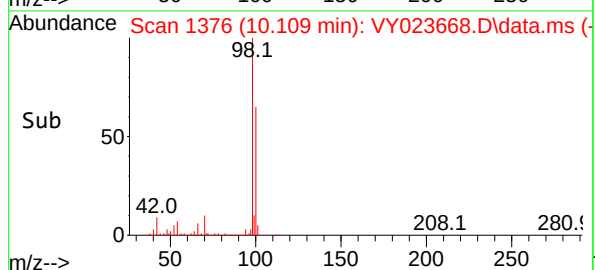
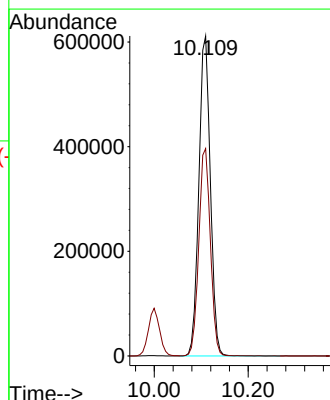
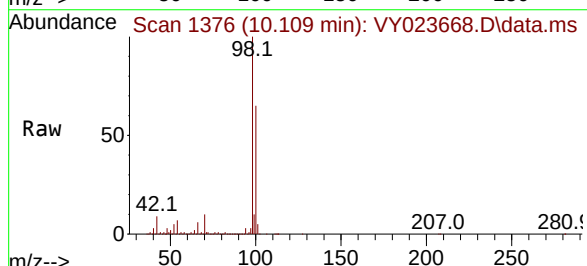
Acq: 04 Nov 2025 12:14

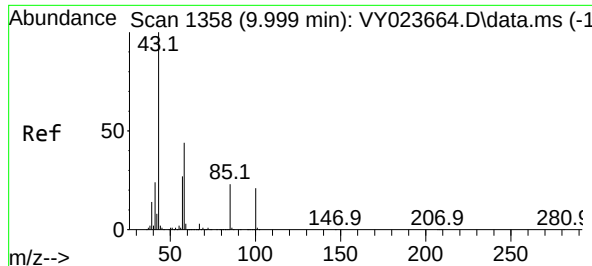
Tgt Ion: 98 Resp: 1040318

Ion Ratio Lower Upper

98 100

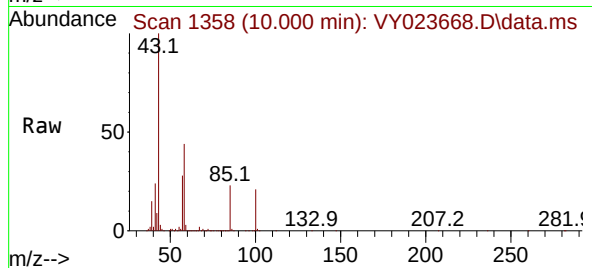
100 65.5 52.7 79.1





#51  
4-Methyl-2-Pentanone  
Concen: 257.714 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

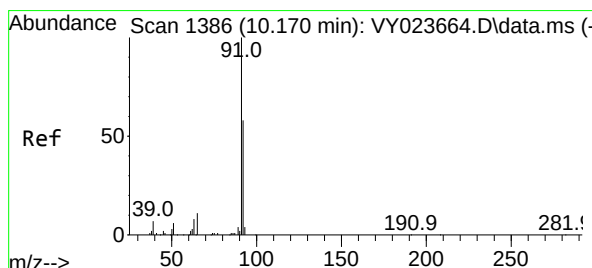
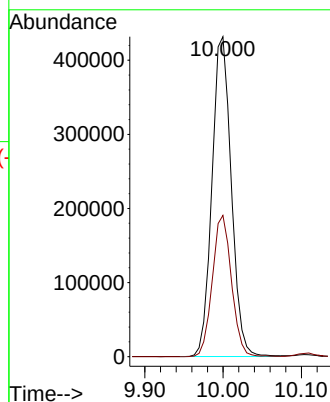
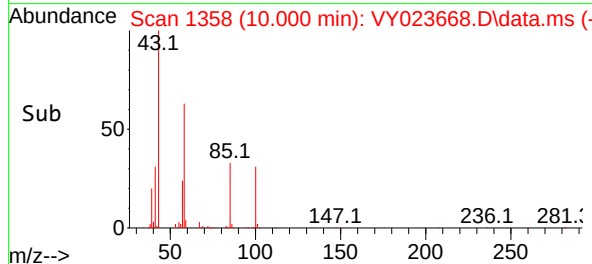
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 43 Resp: 73946  
Ion Ratio Lower Upper  
43 100  
58 43.8 34.8 52.2

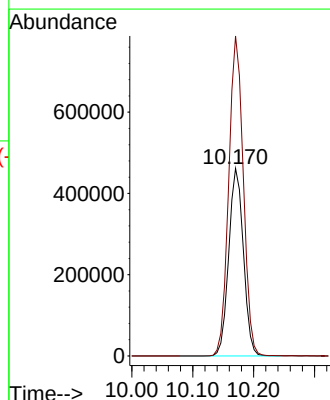
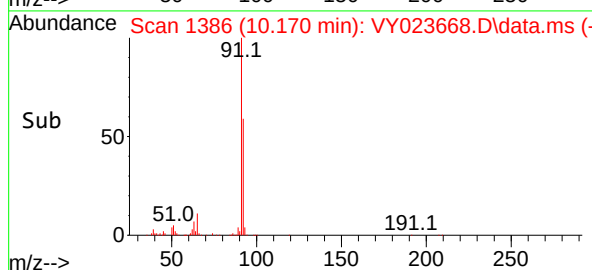
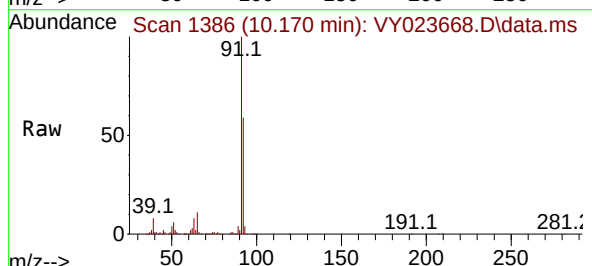
Manual Integrations  
APPROVED

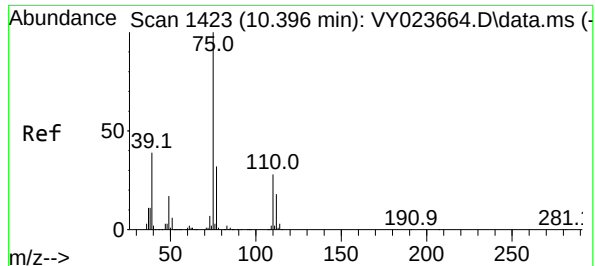
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#52  
Toluene  
Concen: 51.540 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

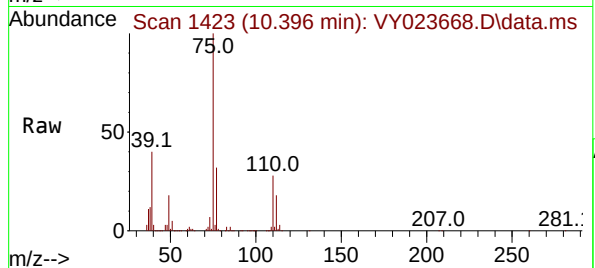
Tgt Ion: 92 Resp: 769370  
Ion Ratio Lower Upper  
92 100  
91 170.0 137.8 206.8





#53  
t-1,3-Dichloropropene  
Concen: 51.286 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

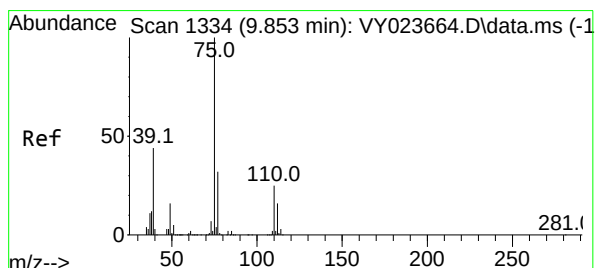
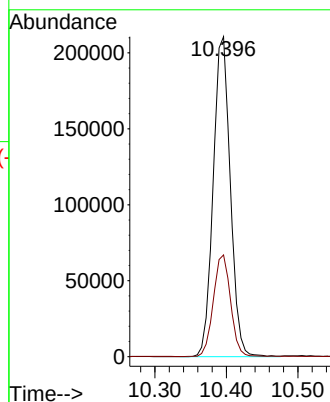
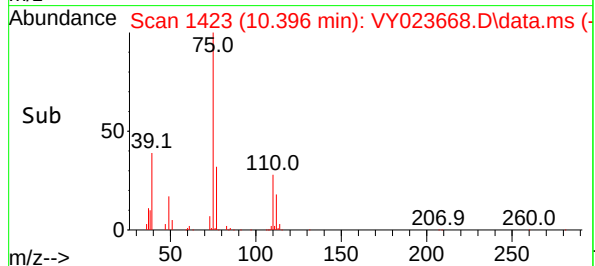
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



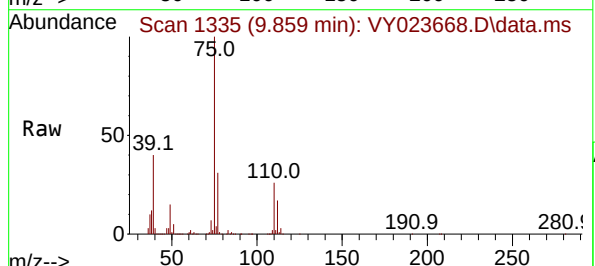
Tgt Ion: 75 Resp: 349820  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.6 38.4

Manual Integrations  
APPROVED

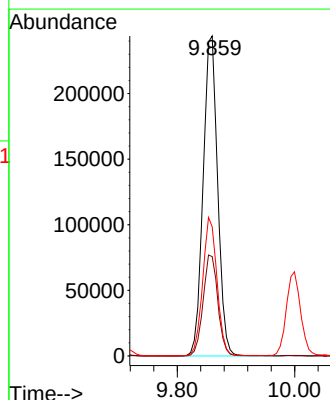
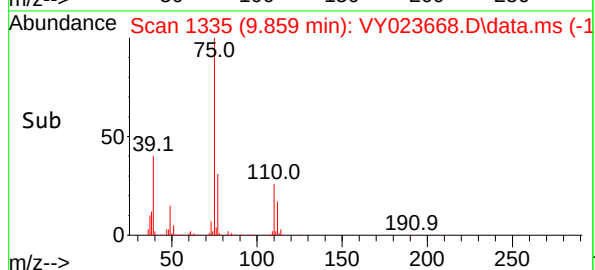
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

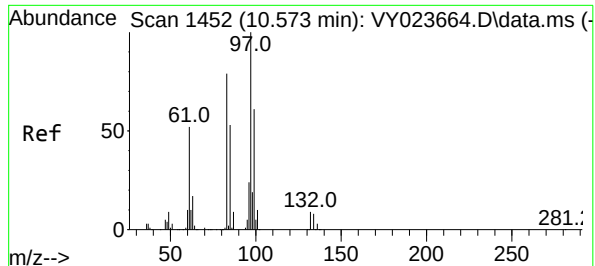


#54  
cis-1,3-Dichloropropene  
Concen: 51.251 ug/l  
RT: 9.859 min Scan# 1335  
Delta R.T. 0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14



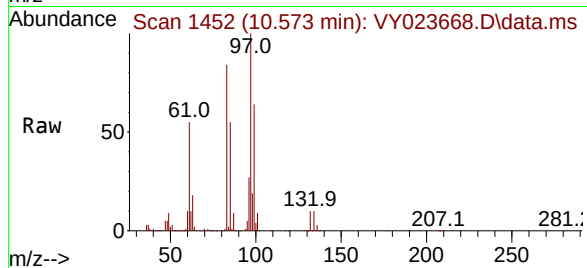
Tgt Ion: 75 Resp: 418833  
Ion Ratio Lower Upper  
75 100  
77 31.0 25.7 38.5  
39 40.2 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 49.096 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

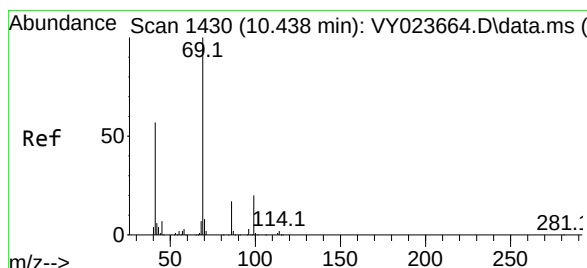
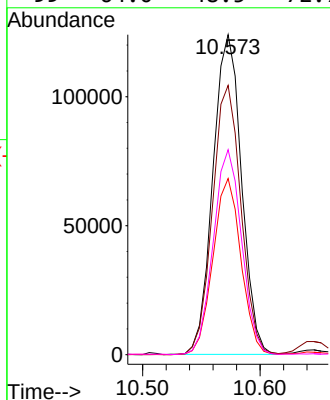
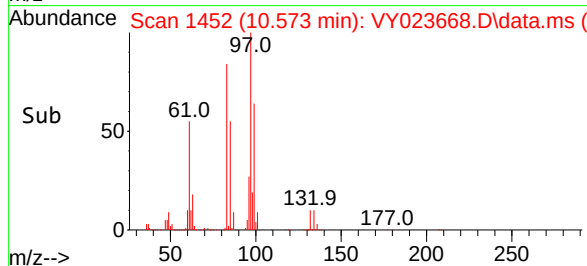
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 97 Resp: 20978  
Ion Ratio Lower Upper  
97 100  
83 84.1 63.3 94.9  
85 55.0 42.4 63.6  
99 64.0 48.5 72.7

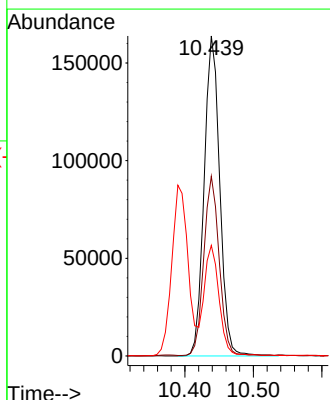
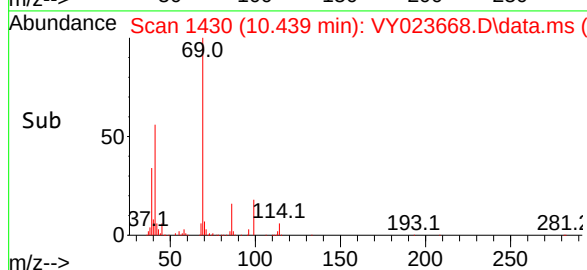
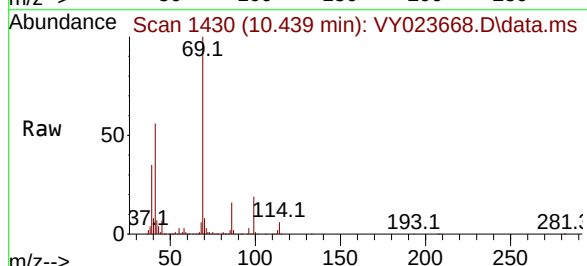
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

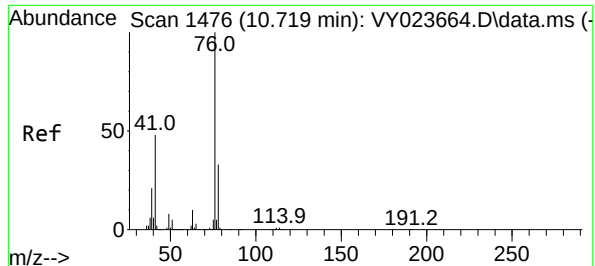


#56  
Ethyl methacrylate  
Concen: 55.214 ug/l  
RT: 10.439 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion: 69 Resp: 259940  
Ion Ratio Lower Upper  
69 100  
41 55.1 45.0 67.4  
39 31.9 25.1 37.7

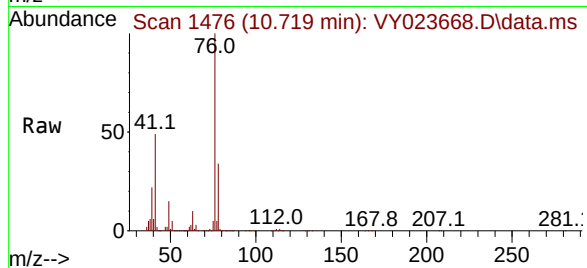






#57  
1,3-Dichloropropane  
Concen: 49.813 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

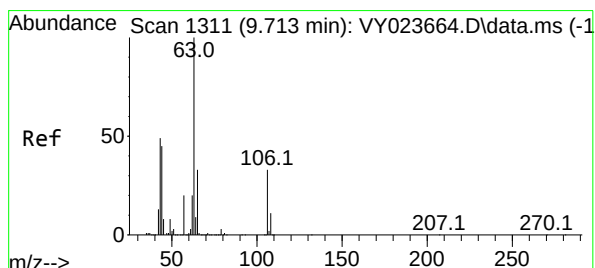
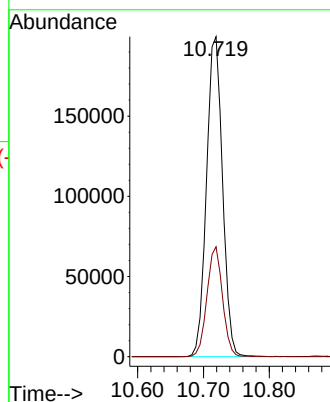
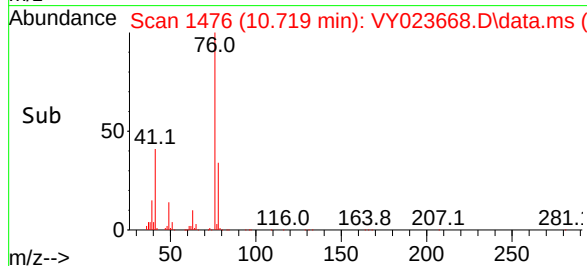
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 76 Resp: 33761  
Ion Ratio Lower Upper  
76 100  
78 33.4 26.0 39.0

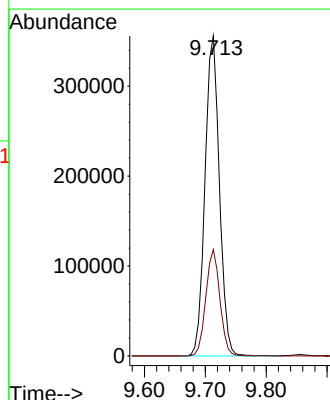
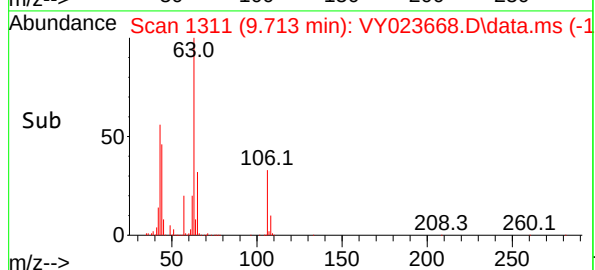
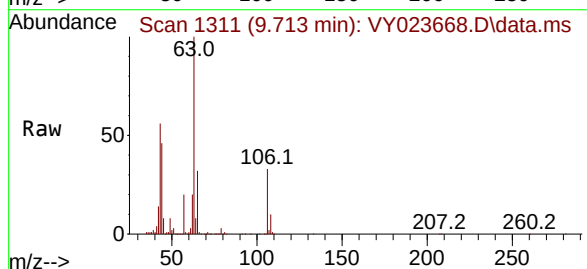
Manual Integrations  
APPROVED

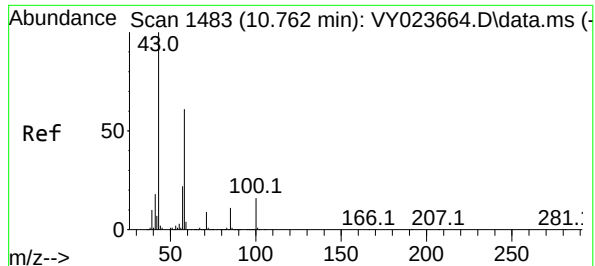
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 271.549 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

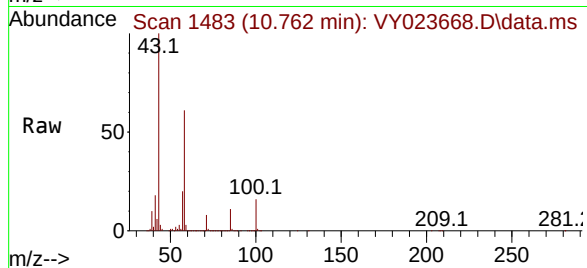
Tgt Ion: 63 Resp: 586635  
Ion Ratio Lower Upper  
63 100  
106 32.5 26.2 39.2





#59  
2-Hexanone  
Concen: 256.278 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

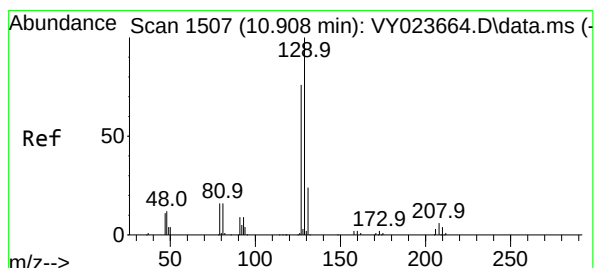
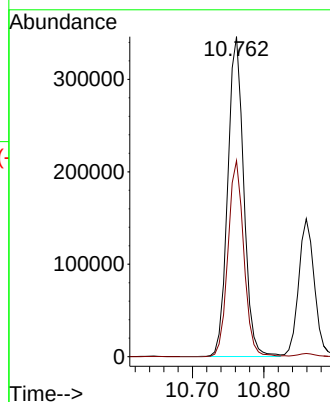
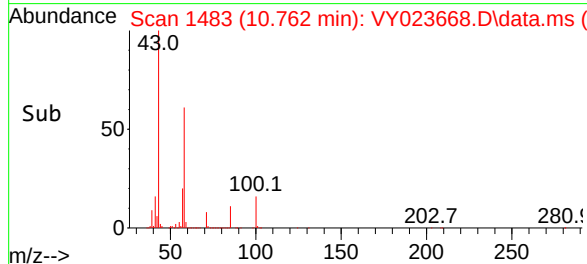
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 43 Resp: 536488  
Ion Ratio Lower Upper  
43 100  
58 60.7 30.2 90.6

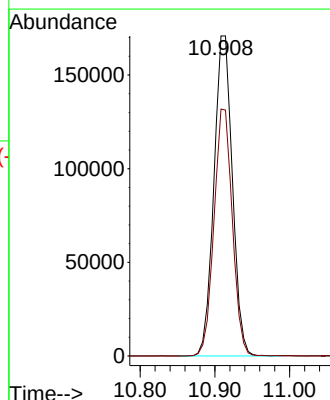
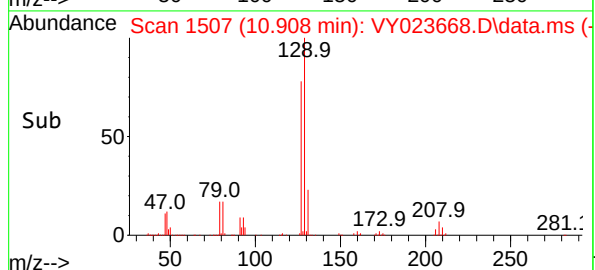
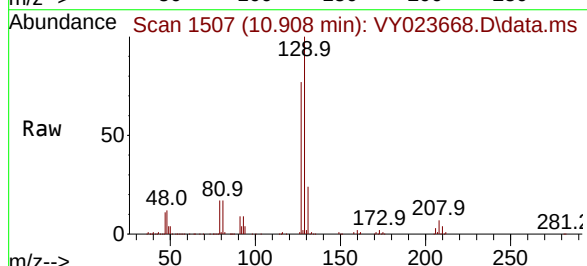
Manual Integrations  
APPROVED

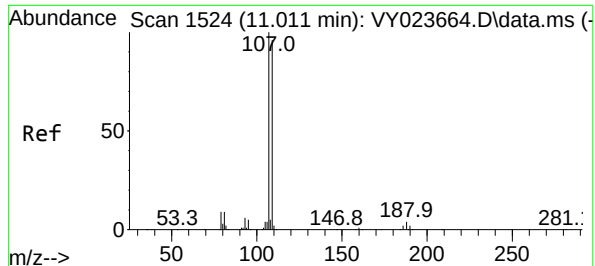
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#60  
Dibromochloromethane  
Concen: 50.005 ug/l  
RT: 10.908 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

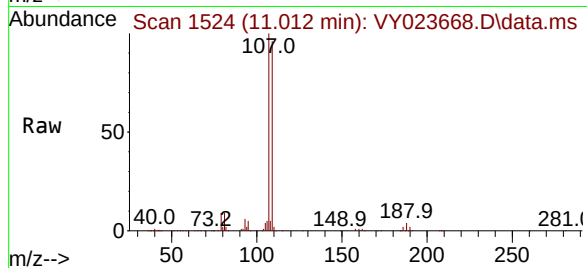
Tgt Ion:129 Resp: 293578  
Ion Ratio Lower Upper  
129 100  
127 76.6 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 50.038 ug/l  
RT: 11.012 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

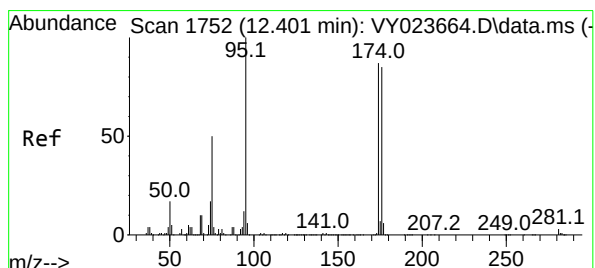
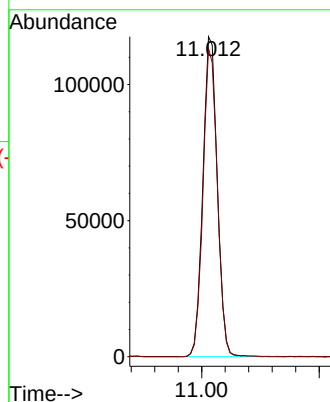
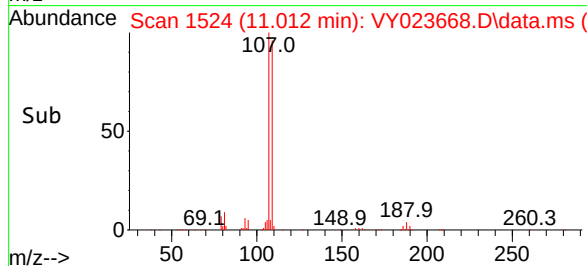
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 107 Resp: 200650  
Ion Ratio Lower Upper  
107 100  
109 95.8 76.2 114.4

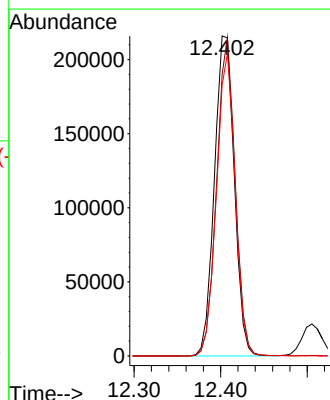
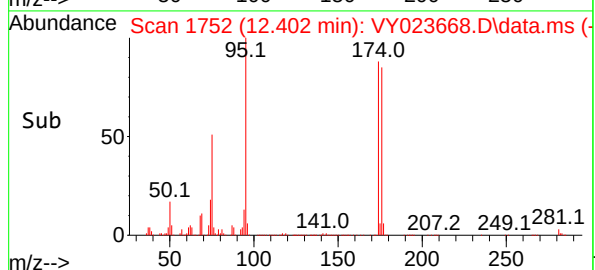
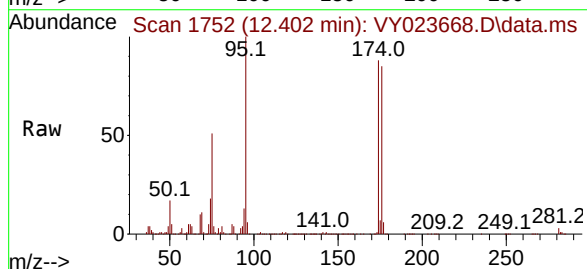
Manual Integrations  
APPROVED

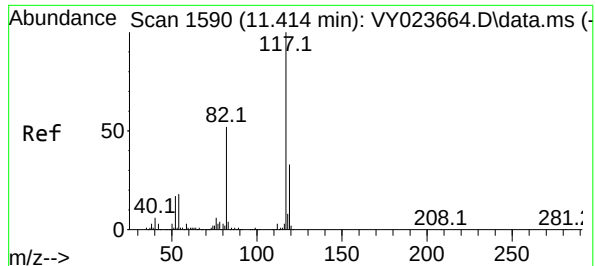
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#62  
4-Bromofluorobenzene  
Concen: 51.484 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

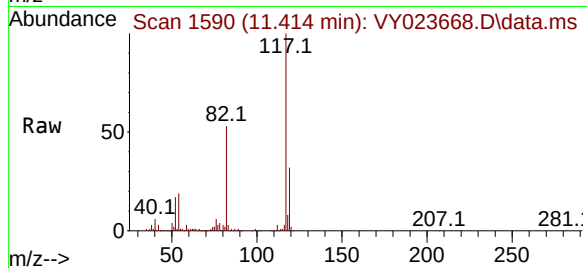
Tgt Ion: 95 Resp: 344284  
Ion Ratio Lower Upper  
95 100  
174 92.9 0.0 184.8  
176 89.3 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

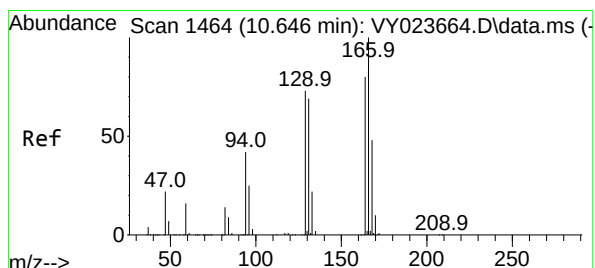
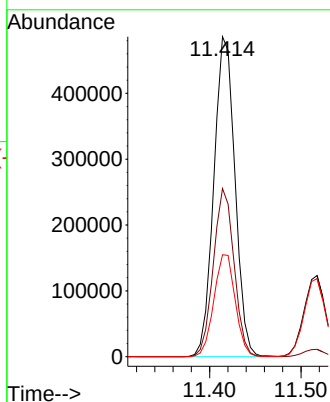
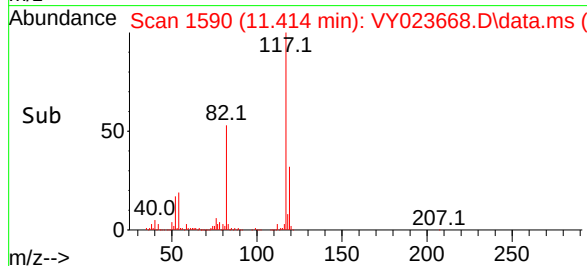
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:117 Resp: 783295  
Ion Ratio Lower Upper  
117 100  
82 52.5 41.2 61.8  
119 31.8 26.2 39.2

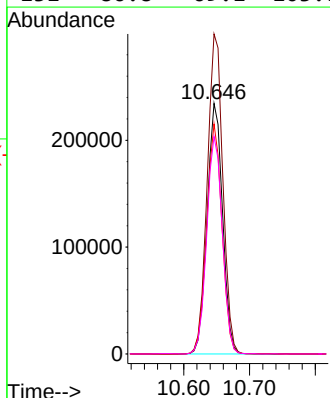
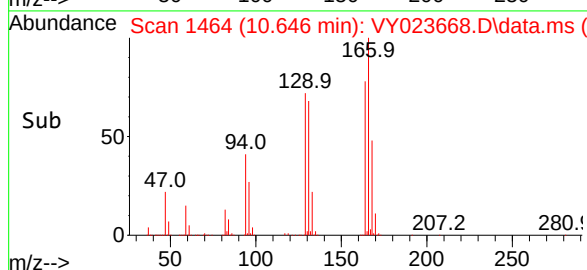
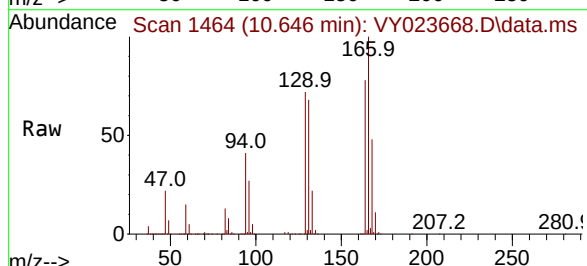
Manual Integrations  
APPROVED

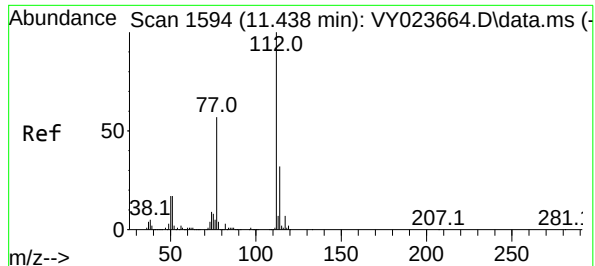
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#64  
Tetrachloroethene  
Concen: 47.199 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

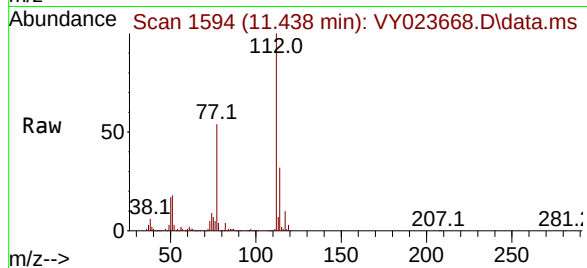
Tgt Ion:164 Resp: 384807  
Ion Ratio Lower Upper  
164 100  
166 127.7 99.5 149.3  
129 91.9 72.3 108.5  
131 86.8 69.1 103.7





#65  
Chlorobenzene  
Concen: 49.832 ug/l  
RT: 11.438 min Scan# 1594  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

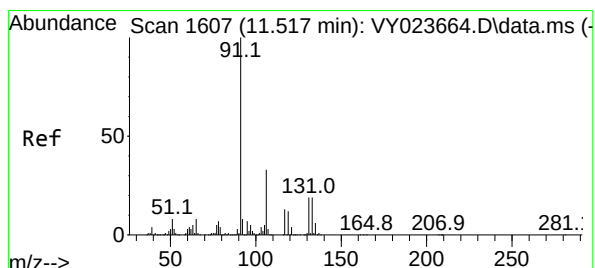
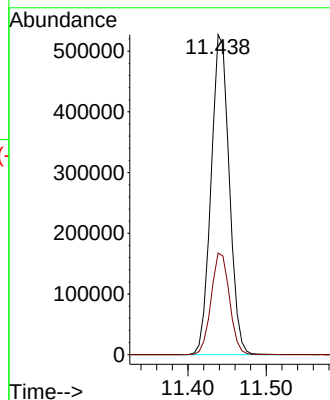
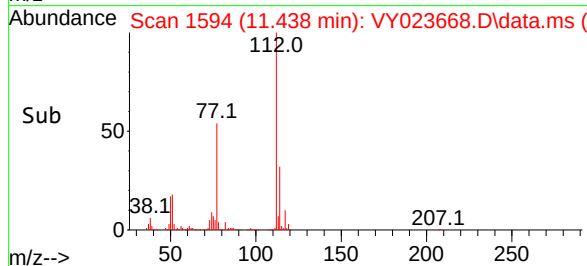
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVY110425



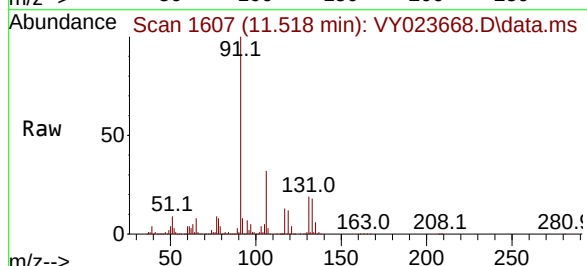
Tgt Ion:112 Resp: 849748  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.8 38.6

Manual Integrations  
APPROVED

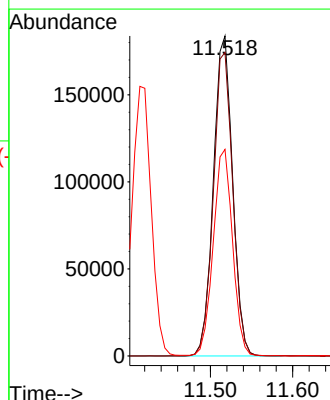
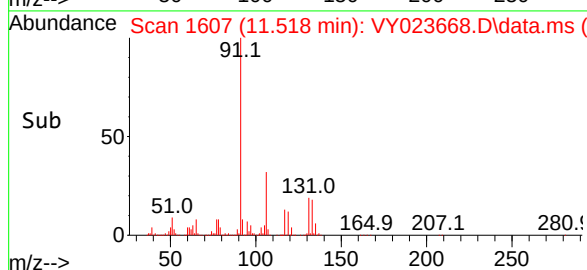
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

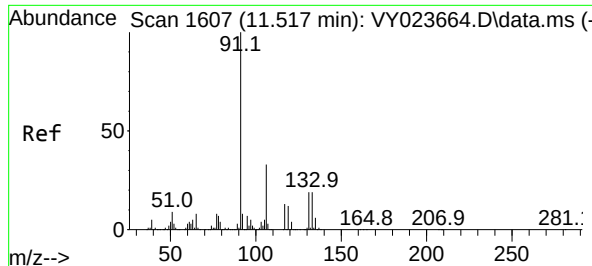


#66  
1,1,1,2-Tetrachloroethane  
Concen: 49.452 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14



Tgt Ion:131 Resp: 298190  
Ion Ratio Lower Upper  
131 100  
133 95.7 47.3 141.8  
119 64.9 32.5 97.4





#67

Ethyl Benzene

Concen: 52.373 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 91 Resp: 144542

Ion Ratio Lower Upper

91 100

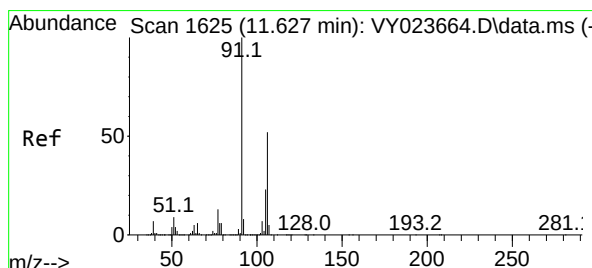
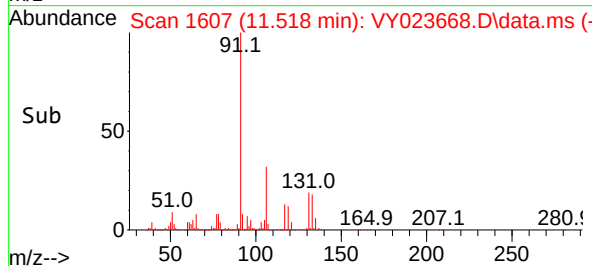
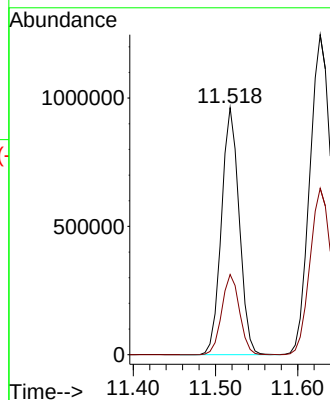
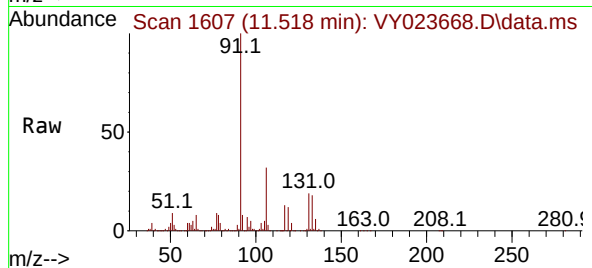
106 32.5 26.6 40.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#68

m/p-Xylenes

Concen: 105.195 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023668.D

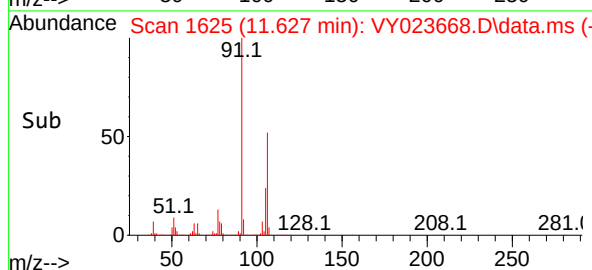
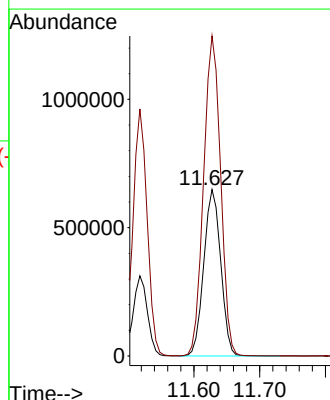
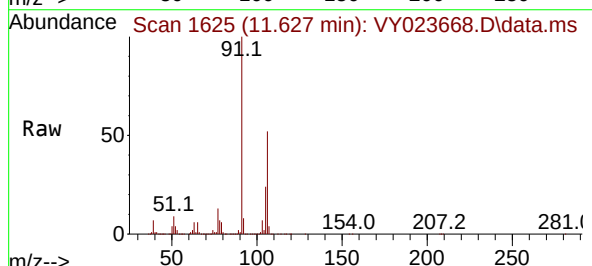
Acq: 04 Nov 2025 12:14

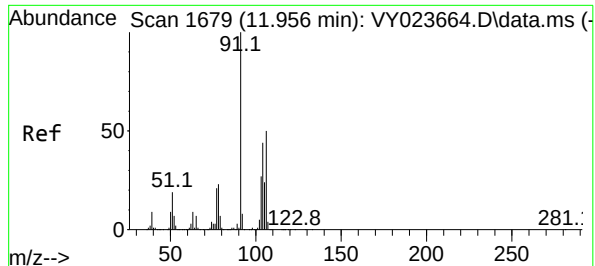
Tgt Ion:106 Resp: 1159953

Ion Ratio Lower Upper

106 100

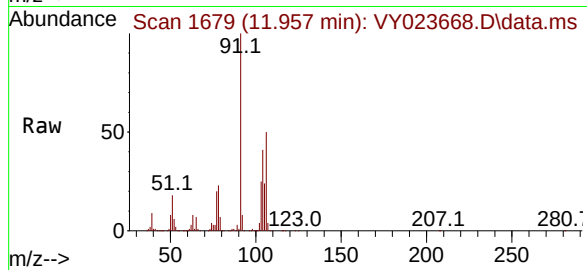
91 193.1 154.3 231.5





#69  
o-Xylene  
Concen: 53.114 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

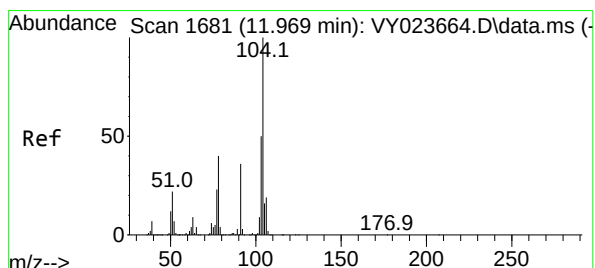
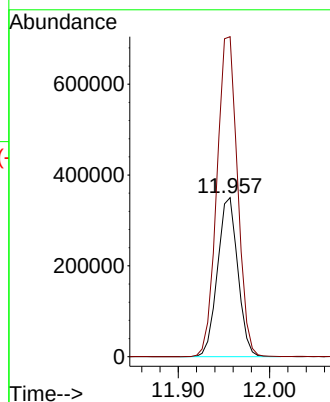
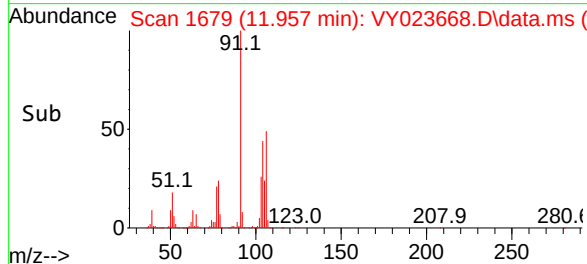
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:106 Resp: 541389  
Ion Ratio Lower Upper  
106 100  
91 204.3 101.6 304.6

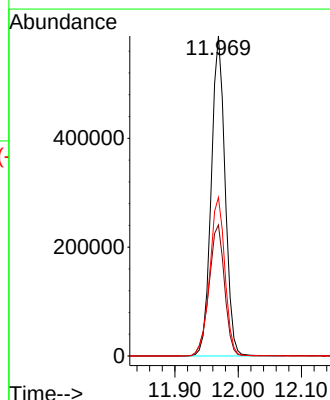
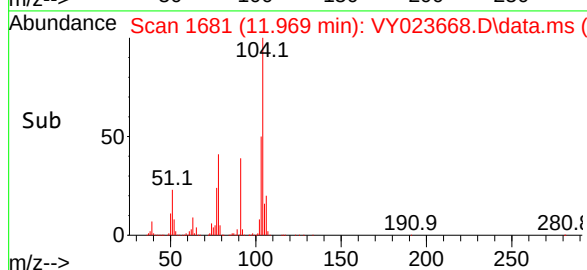
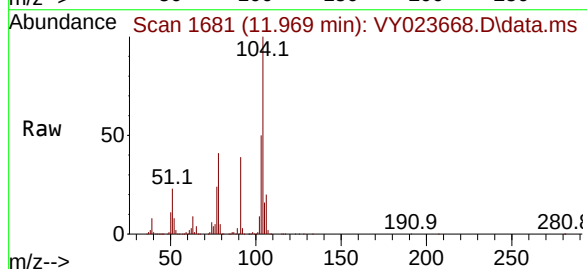
Manual Integrations  
APPROVED

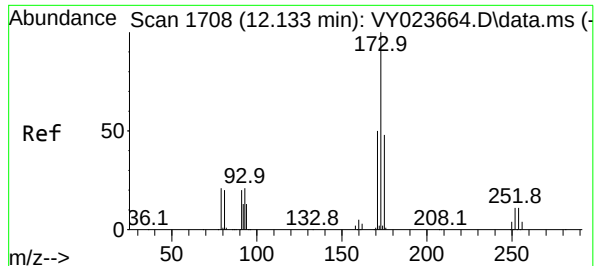
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#70  
Styrene  
Concen: 53.283 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

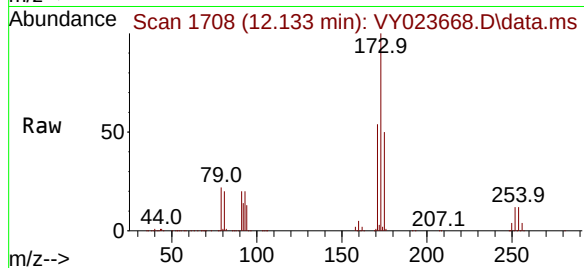
Tgt Ion:104 Resp: 896108  
Ion Ratio Lower Upper  
104 100  
78 45.9 36.5 54.7  
103 54.0 43.7 65.5





#71  
Bromoform  
Concen: 50.360 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

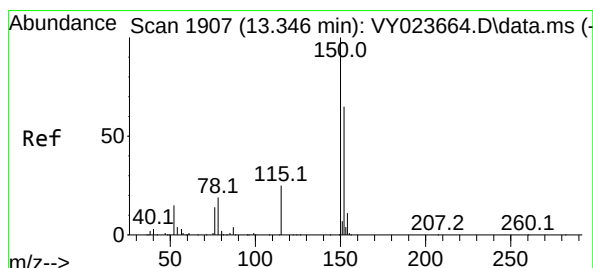
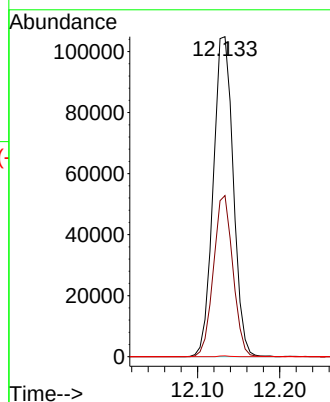
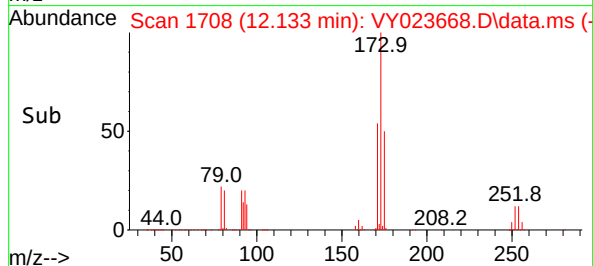
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVY110425



Tgt Ion:173 Resp: 177352  
Ion Ratio Lower Upper  
173 100  
175 48.9 24.2 72.6  
254 0.1 0.2 0.2

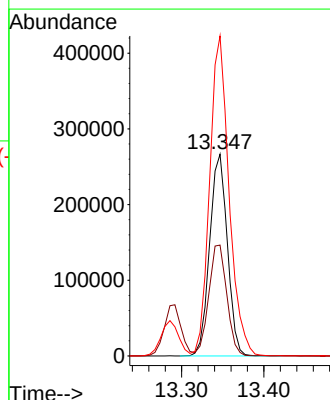
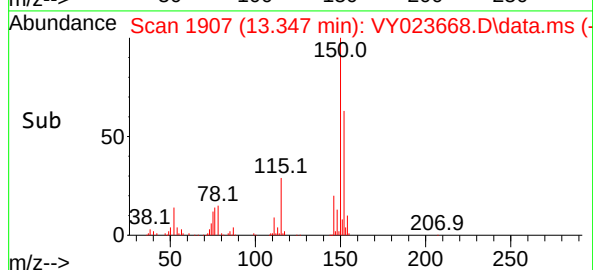
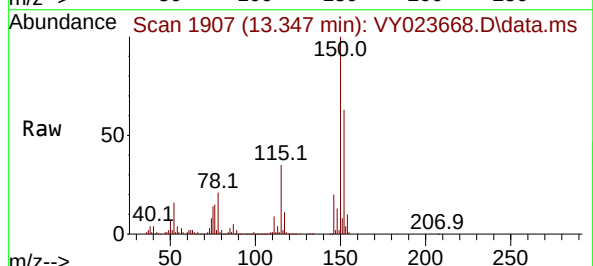
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025

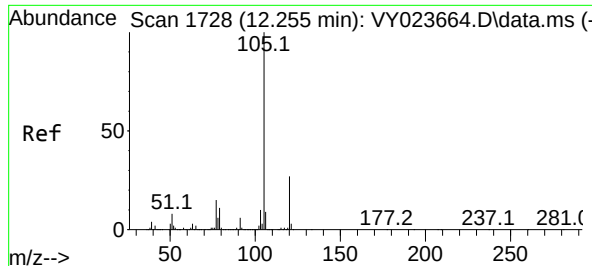


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion:152 Resp: 398785  
Ion Ratio Lower Upper  
152 100  
115 55.8 27.5 82.5  
150 173.7 0.0 349.0

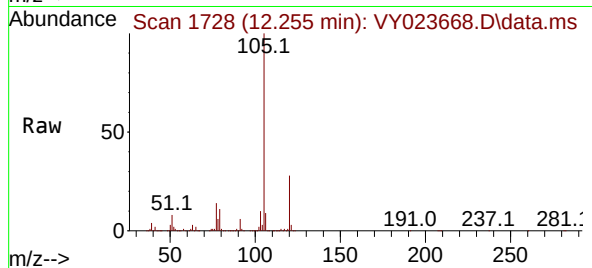






#73  
Isopropylbenzene  
Concen: 53.146 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

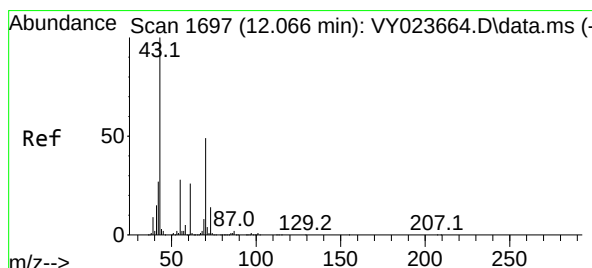
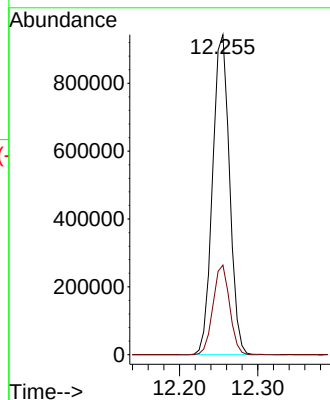
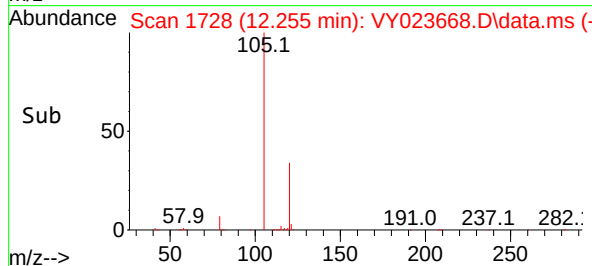
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:105 Resp: 141748  
Ion Ratio Lower Upper  
105 100  
120 27.4 13.6 40.7

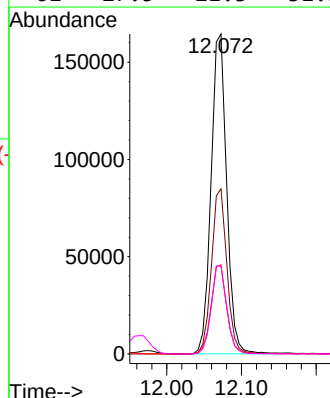
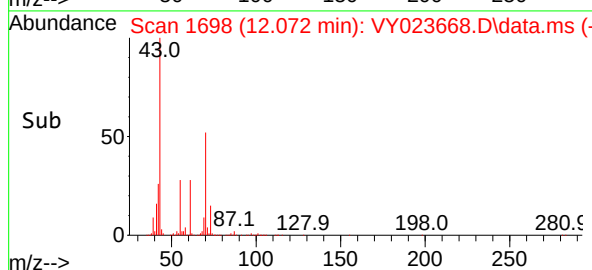
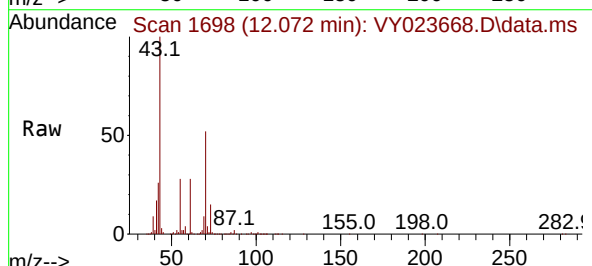
Manual Integrations  
APPROVED

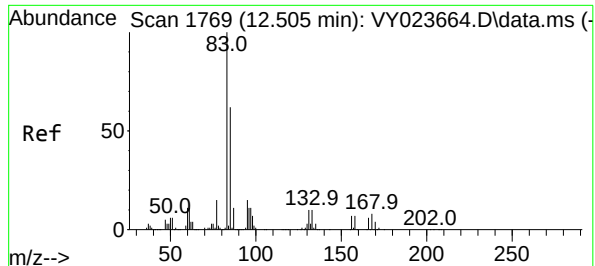
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#74  
N-ethyl acetate  
Concen: 52.899 ug/l  
RT: 12.072 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion: 43 Resp: 238873  
Ion Ratio Lower Upper  
43 100  
70 51.6 40.1 60.1  
55 28.1 23.0 34.6  
61 27.5 21.3 31.9





#75

1,1,2,2-Tetrachloroethane

Concen: 50.335 ug/l

RT: 12.505 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 83 Resp: 214414

Ion Ratio Lower Upper

83 100

131 11.0 5.7 17.0

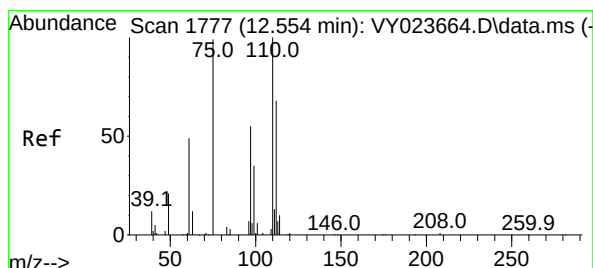
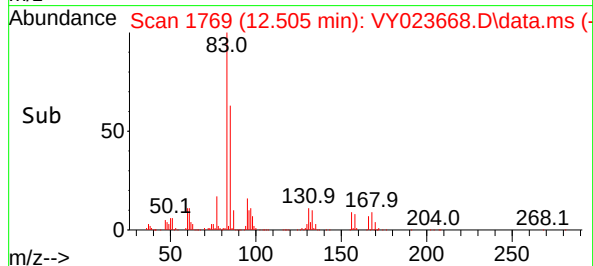
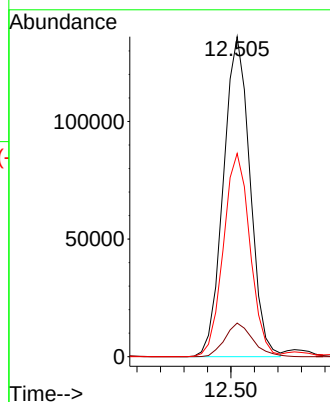
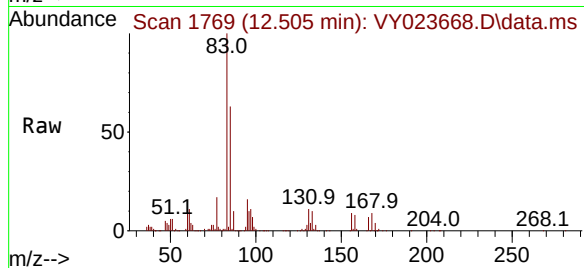
85 63.7 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#76

1,2,3-Trichloropropane

Concen: 47.550 ug/l m

RT: 12.554 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VY023668.D

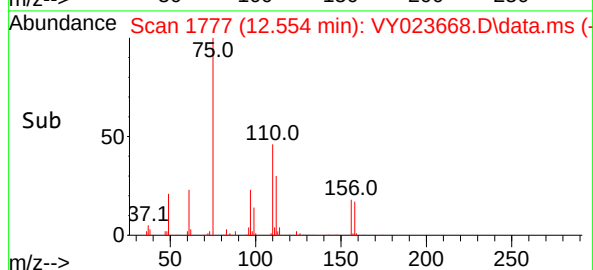
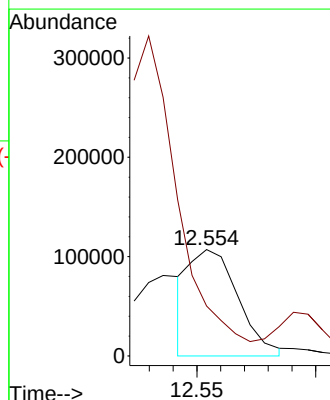
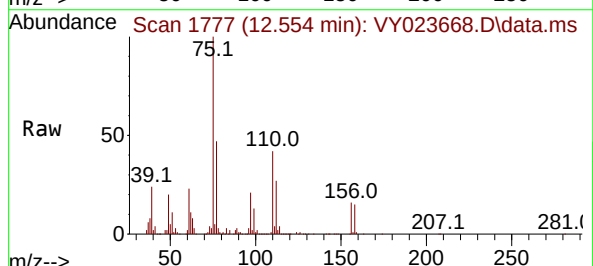
Acq: 04 Nov 2025 12:14

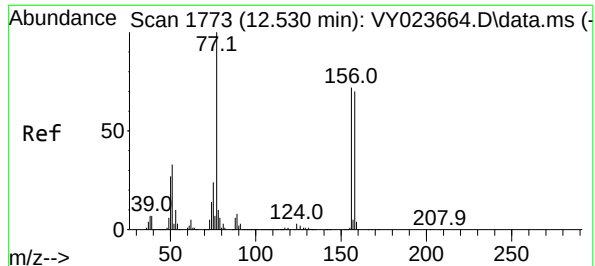
Tgt Ion: 75 Resp: 153462

Ion Ratio Lower Upper

75 100

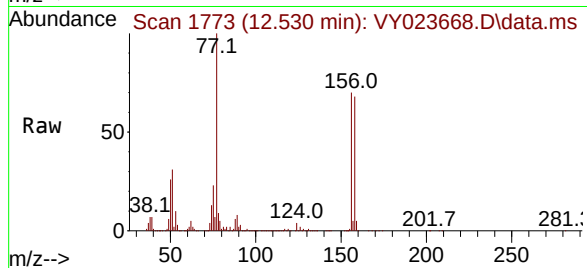
77 0.0 0.0 0.0





#77  
Bromobenzene  
Concen: 50.384 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

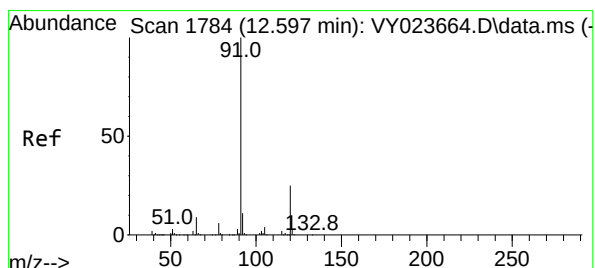
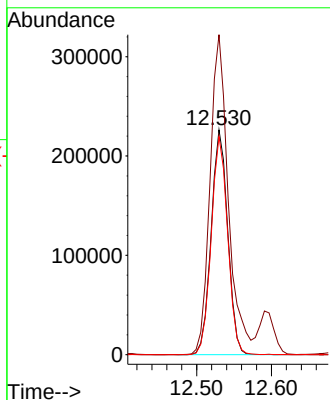
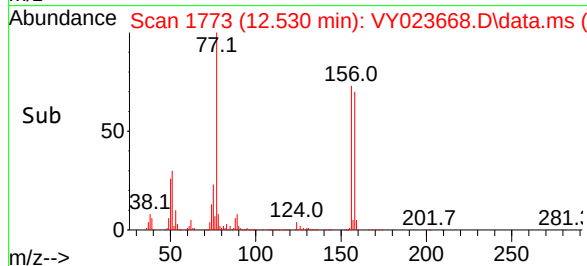
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:156 Resp: 348579  
Ion Ratio Lower Upper  
156 100  
77 156.9 77.9 233.7  
158 96.3 48.5 145.5

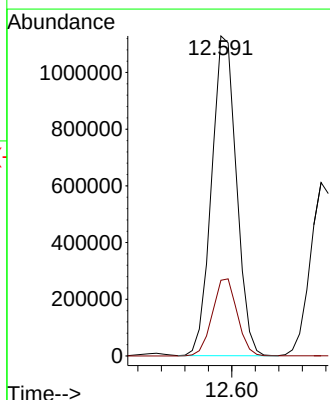
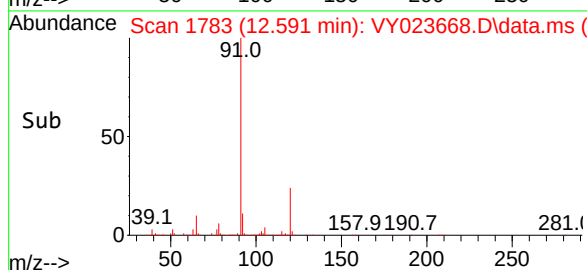
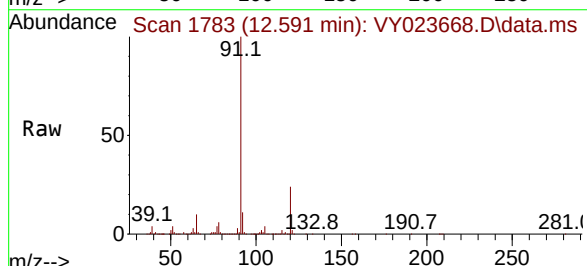
Manual Integrations  
APPROVED

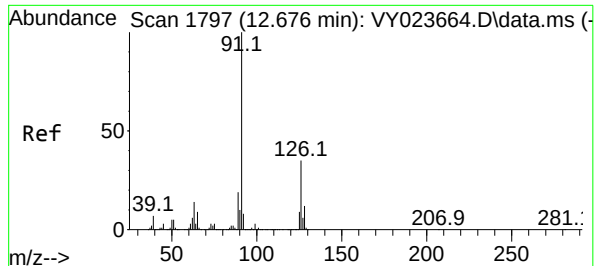
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#78  
n-propylbenzene  
Concen: 52.723 ug/l  
RT: 12.591 min Scan# 1783  
Delta R.T. -0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion: 91 Resp: 1654045  
Ion Ratio Lower Upper  
91 100  
120 24.1 12.0 36.1





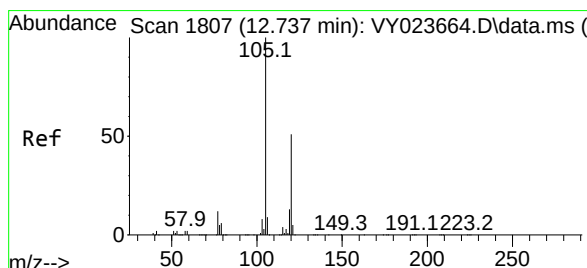
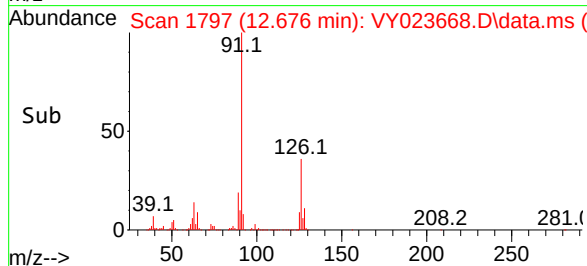
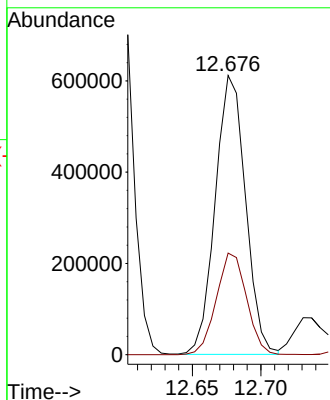
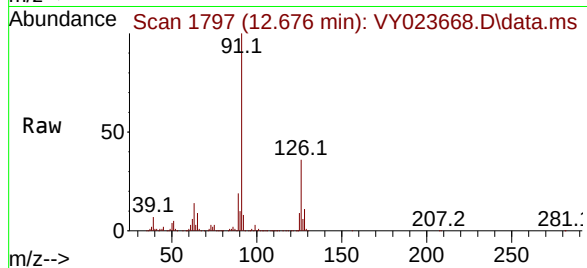
#79  
2-Chlorotoluene  
Concen: 51.669 ug/l  
RT: 12.676 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425

Tgt Ion: 91 Resp: 94062  
Ion Ratio Lower Upper  
91 100  
126 36.4 18.0 54.0

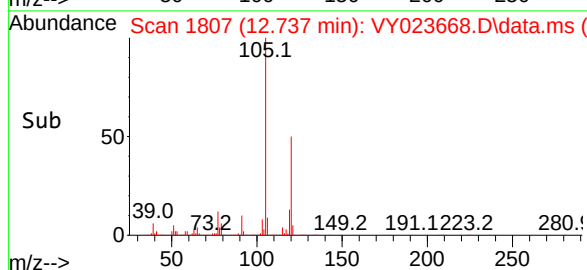
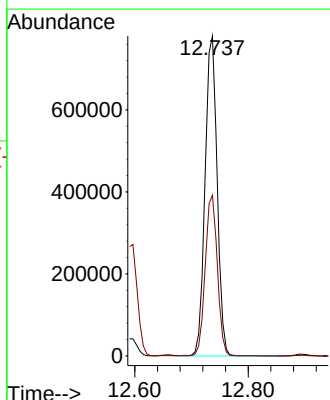
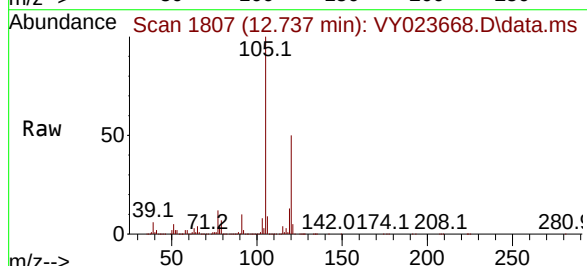
Manual Integrations  
APPROVED

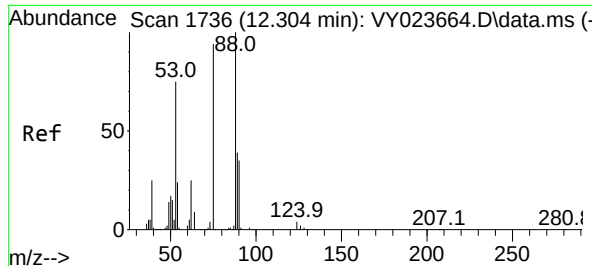
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#80  
1,3,5-Trimethylbenzene  
Concen: 53.189 ug/l  
RT: 12.737 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

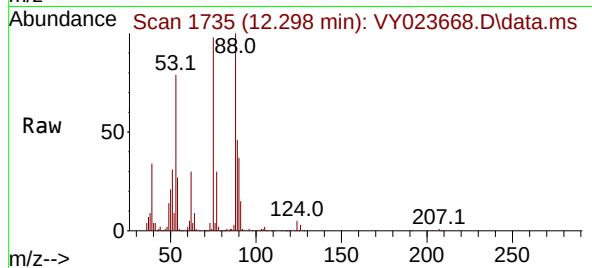
Tgt Ion:105 Resp: 1152618  
Ion Ratio Lower Upper  
105 100  
120 50.5 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 49.252 ug/l  
RT: 12.298 min Scan# 1735  
Delta R.T. -0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

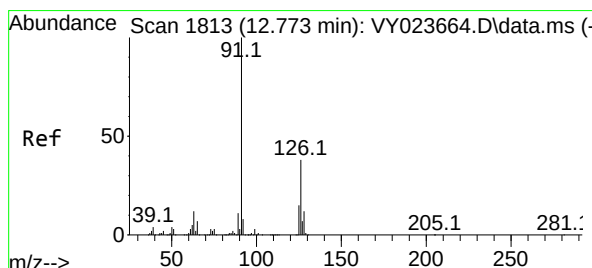
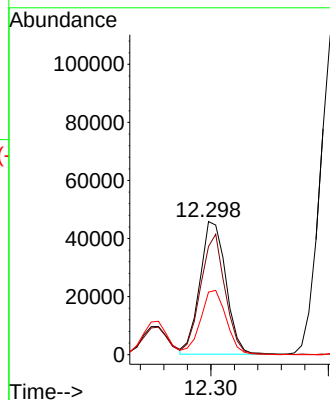
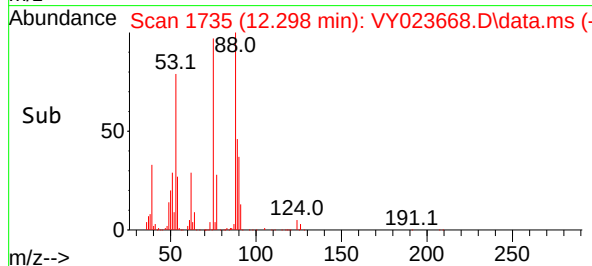
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion: 75 Resp: 70330  
Ion Ratio Lower Upper  
75 100  
53 86.1 69.6 104.4  
89 48.3 38.2 57.4

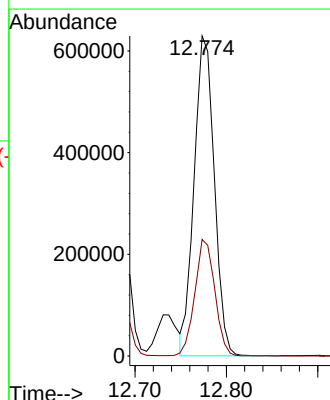
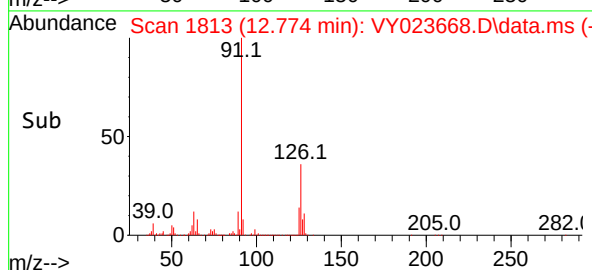
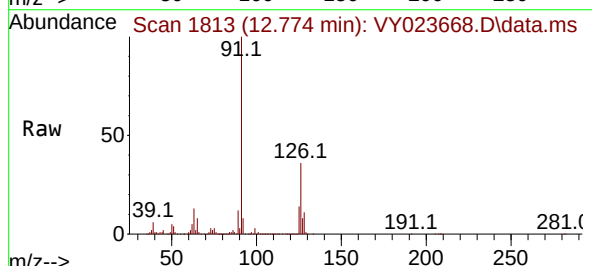
Manual Integrations  
APPROVED

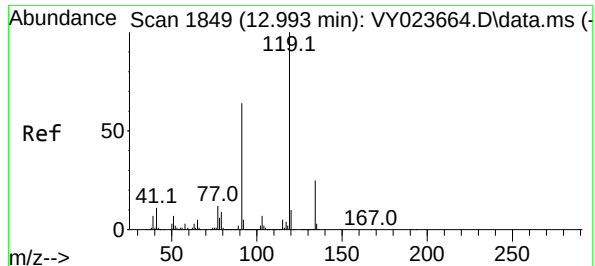
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#82  
4-Chlorotoluene  
Concen: 51.412 ug/l  
RT: 12.774 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

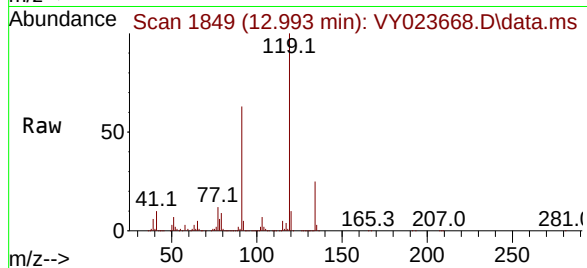
Tgt Ion: 91 Resp: 965258  
Ion Ratio Lower Upper  
91 100  
126 36.1 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 54.107 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

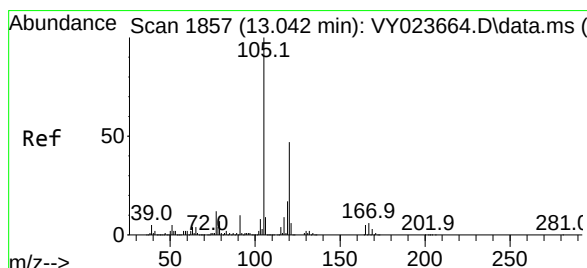
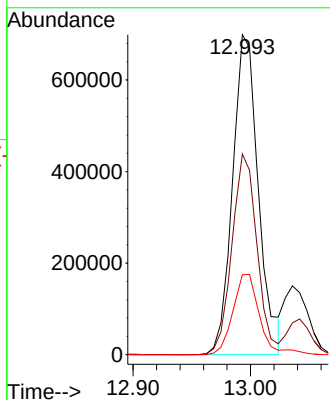
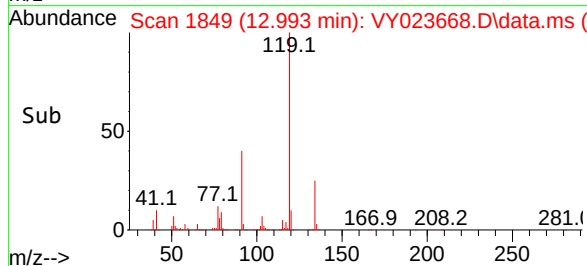
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:119 Resp: 106790  
Ion Ratio Lower Upper  
119 100  
91 60.8 30.7 92.1  
134 26.0 13.1 39.1

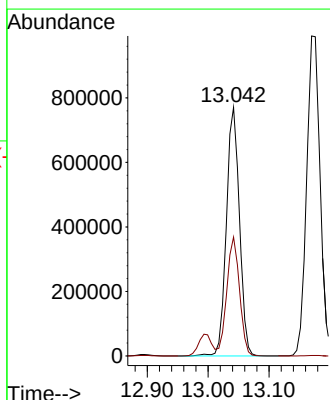
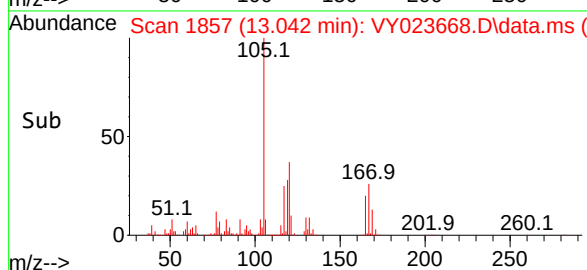
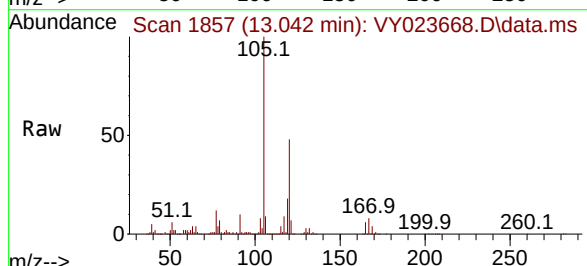
Manual Integrations  
APPROVED

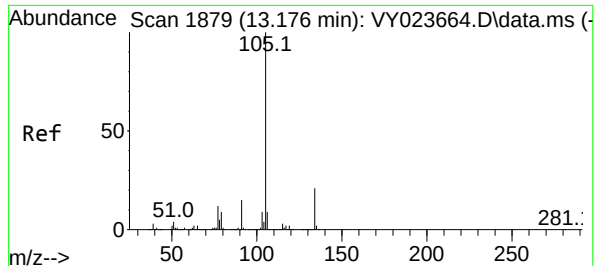
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 53.419 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

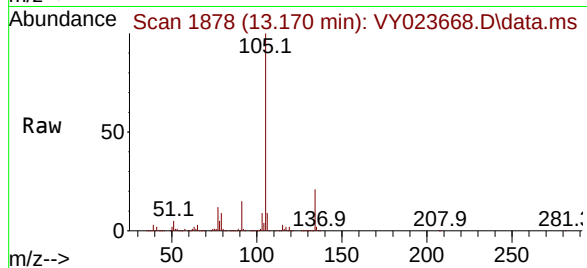
Tgt Ion:105 Resp: 1146575  
Ion Ratio Lower Upper  
105 100  
120 46.7 23.2 69.6





#85  
 sec-Butylbenzene  
 Concen: 53.321 ug/l  
 RT: 13.170 min Scan# 1878  
 Delta R.T. -0.006 min  
 Lab File: VY023668.D  
 Acq: 04 Nov 2025 12:14

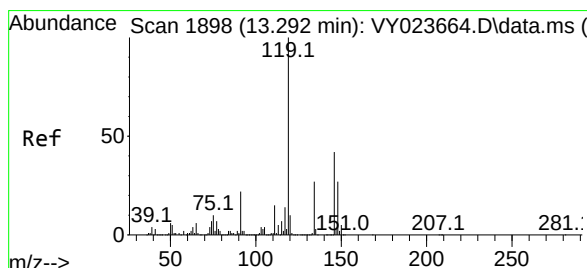
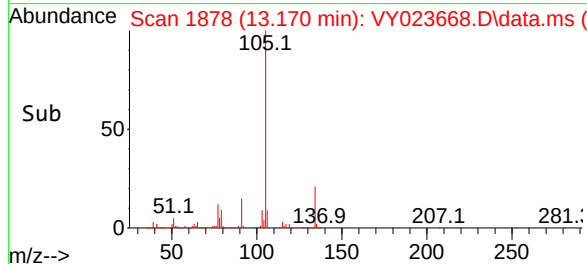
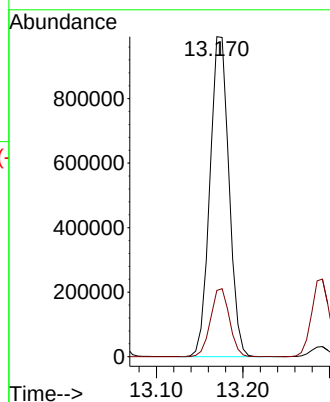
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY110425



Tgt Ion:105 Resp: 1517909  
 Ion Ratio Lower Upper  
 105 100  
 134 21.0 10.4 31.4

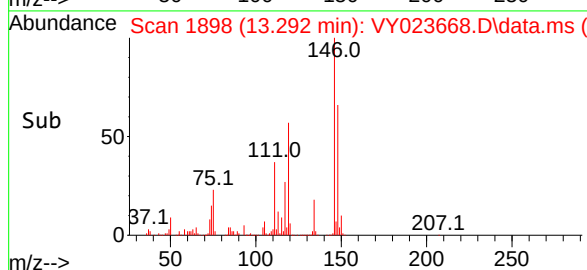
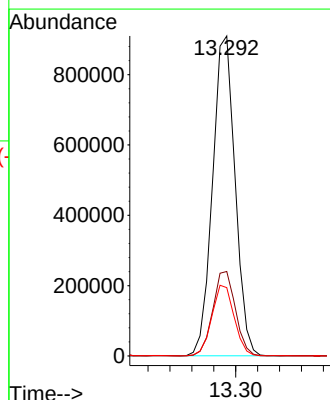
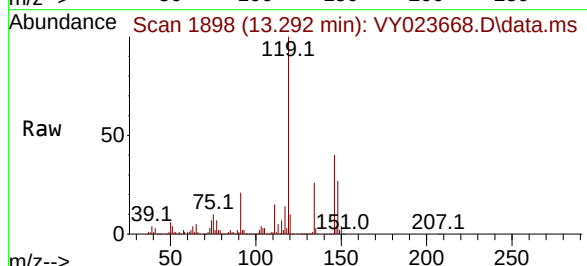
Manual Integrations  
 APPROVED

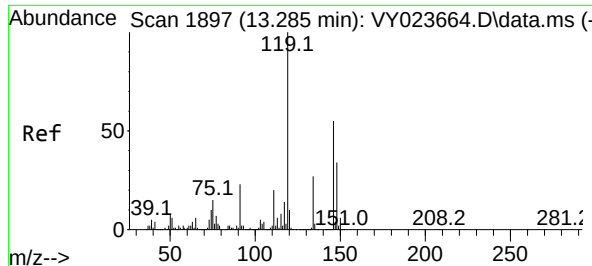
Reviewed By :Amit Patel 11/05/2025  
 Supervised By :Mahesh Dadoda 11/05/2025



#86  
 p-Isopropyltoluene  
 Concen: 53.924 ug/l  
 RT: 13.292 min Scan# 1898  
 Delta R.T. 0.000 min  
 Lab File: VY023668.D  
 Acq: 04 Nov 2025 12:14

Tgt Ion:119 Resp: 1299518  
 Ion Ratio Lower Upper  
 119 100  
 134 26.6 13.4 40.2  
 91 21.9 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 50.050 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVY110425

Tgt Ion:146 Resp: 68153

Ion Ratio Lower Upper

146 100

111 37.8 18.8 56.3

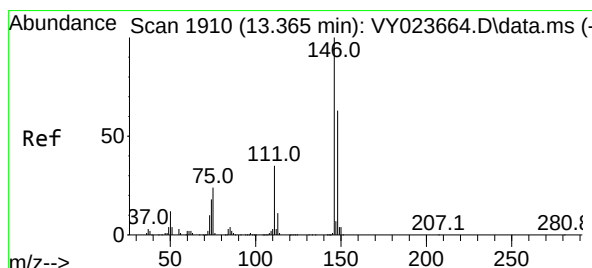
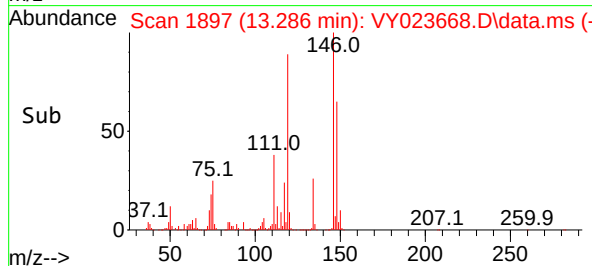
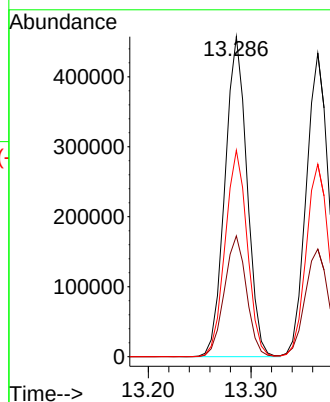
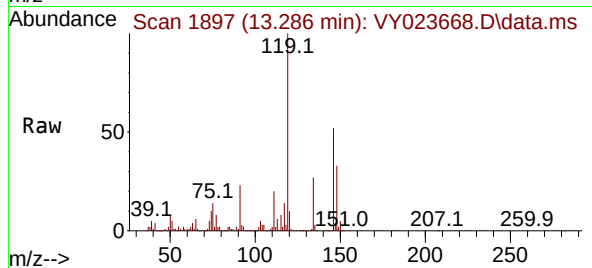
148 64.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#88

1,4-Dichlorobenzene

Concen: 49.051 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

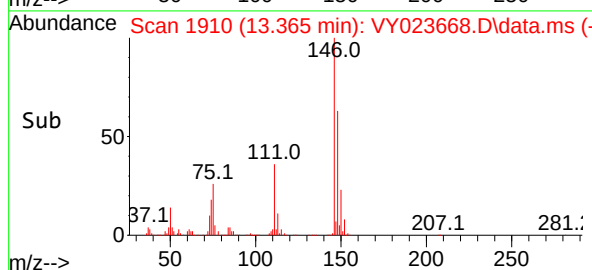
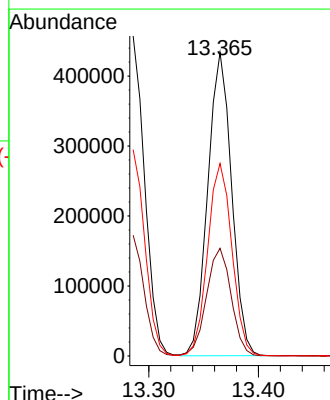
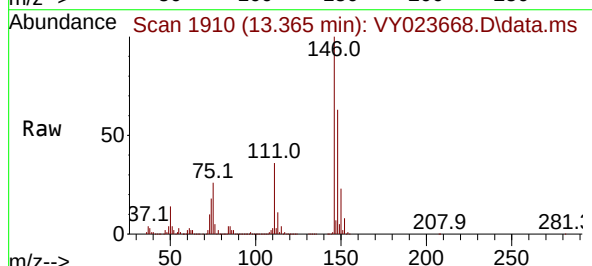
Tgt Ion:146 Resp: 656109

Ion Ratio Lower Upper

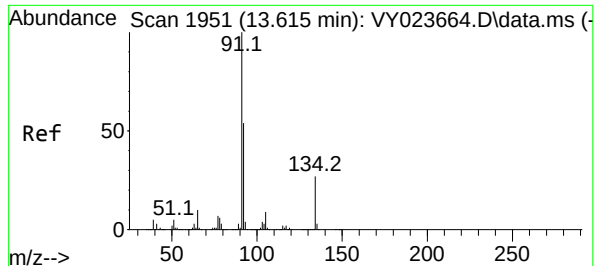
146 100

111 36.7 18.3 54.8

148 64.6 31.8 95.3







#89

n-Butylbenzene

Concen: 54.369 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425

Tgt Ion: 91 Resp: 1139328

Ion Ratio Lower Upper

91 100

92 53.2 26.5 79.4

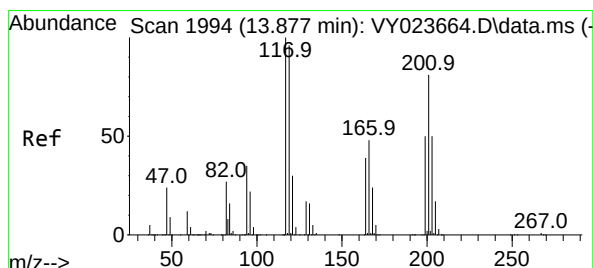
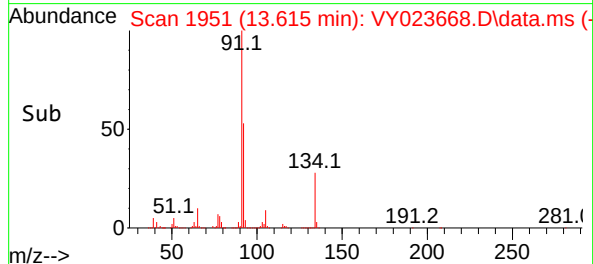
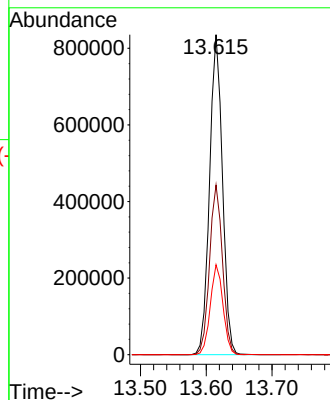
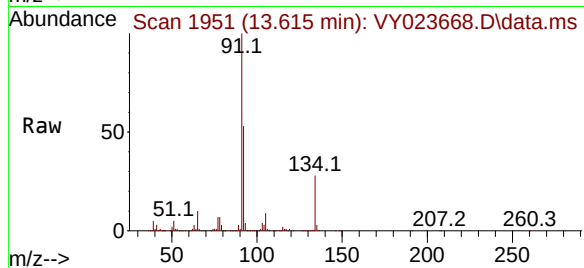
134 27.8 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#90

Hexachloroethane

Concen: 49.923 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023668.D

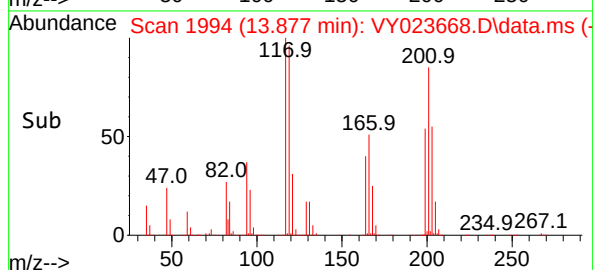
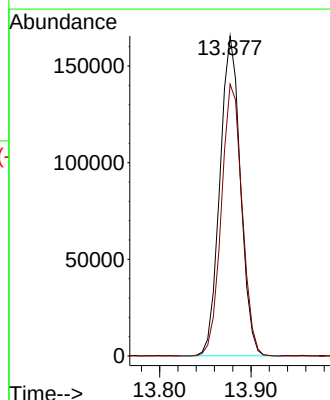
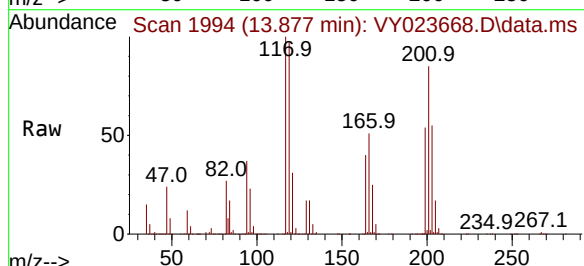
Acq: 04 Nov 2025 12:14

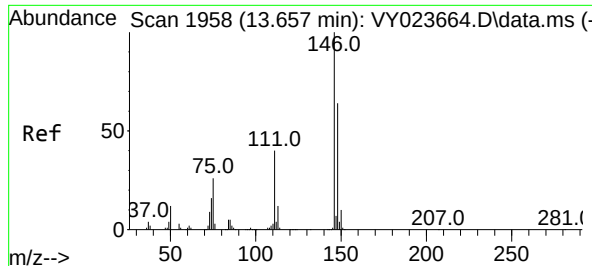
Tgt Ion:117 Resp: 258543

Ion Ratio Lower Upper

117 100

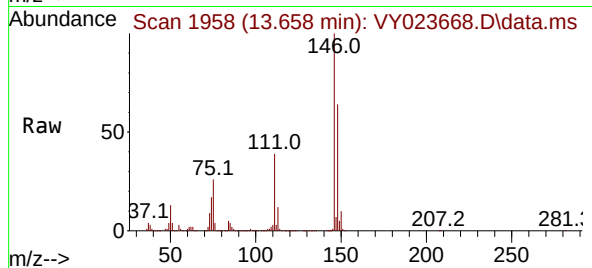
201 85.7 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 50.082 ug/l  
RT: 13.658 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

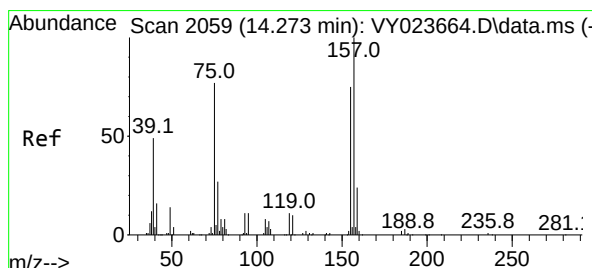
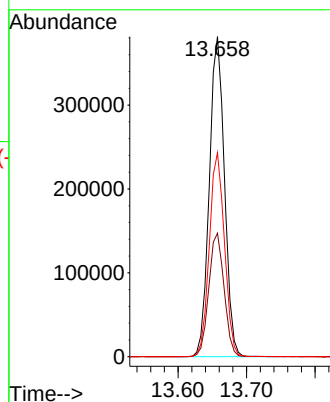
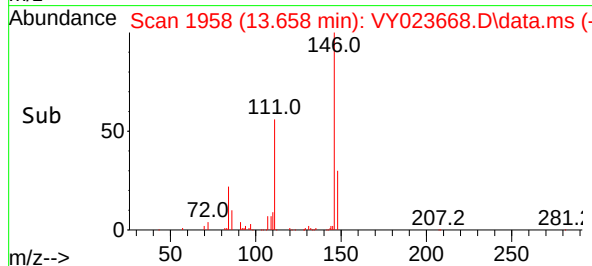
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425



Tgt Ion:146 Resp: 58770  
Ion Ratio Lower Upper  
146 100  
111 39.0 19.5 58.5  
148 63.8 31.9 95.9

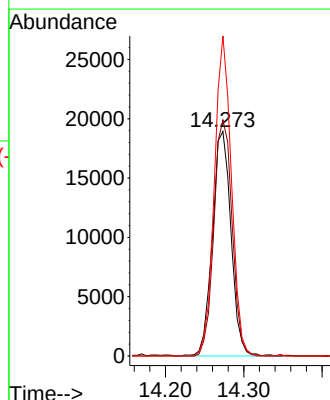
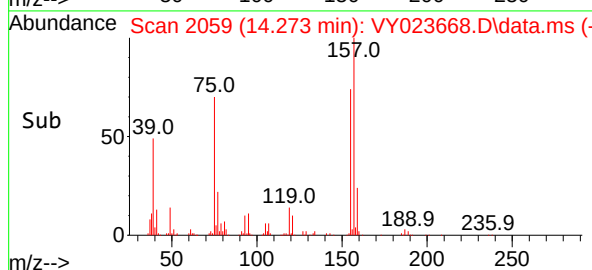
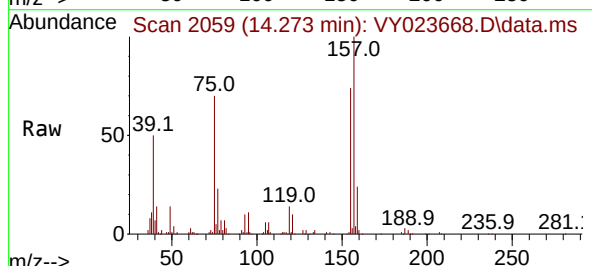
Manual Integrations  
APPROVED

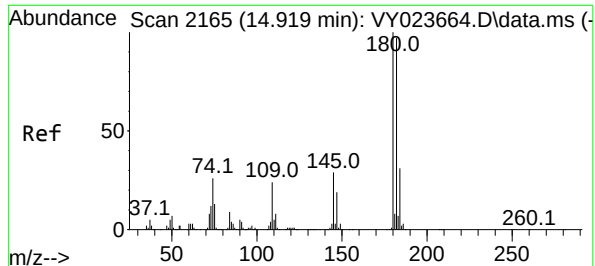
Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 47.551 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion: 75 Resp: 31188  
Ion Ratio Lower Upper  
75 100  
155 103.4 49.4 148.2  
157 130.4 63.2 189.8





#93

1,2,4-Trichlorobenzene

Concen: 53.138 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023668.D

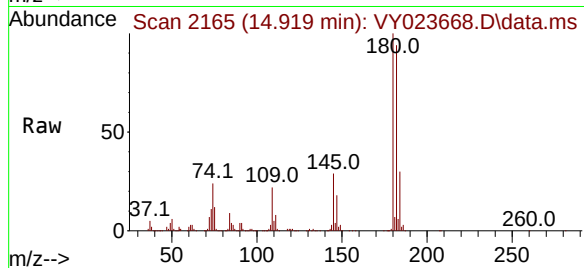
Acq: 04 Nov 2025 12:14

Instrument :

MSVOA\_Y

ClientSampleId :

ICVVY110425



Tgt Ion:180 Resp: 356674

Ion Ratio Lower Upper

180 100

182 95.1 47.5 142.6

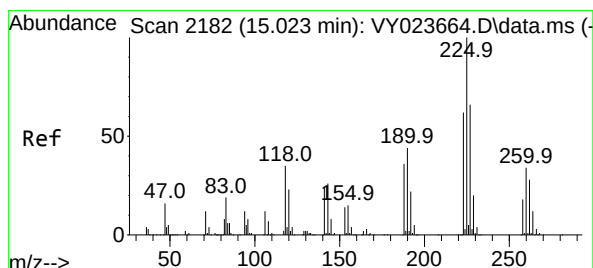
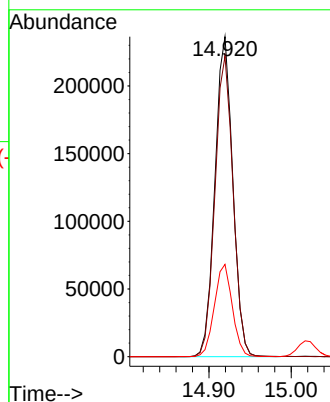
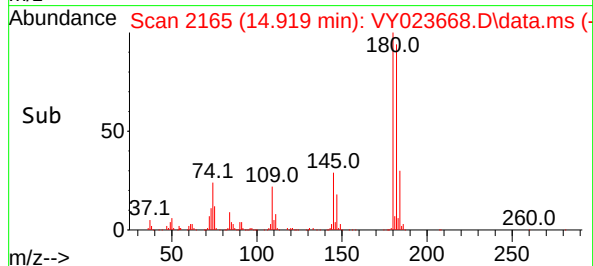
145 29.1 14.4 43.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/05/2025

Supervised By :Mahesh Dadoda 11/05/2025



#94

Hexachlorobutadiene

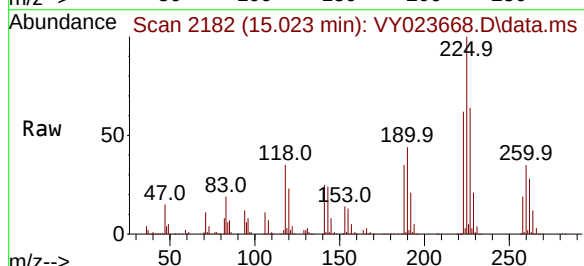
Concen: 50.535 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.000 min

Lab File: VY023668.D

Acq: 04 Nov 2025 12:14



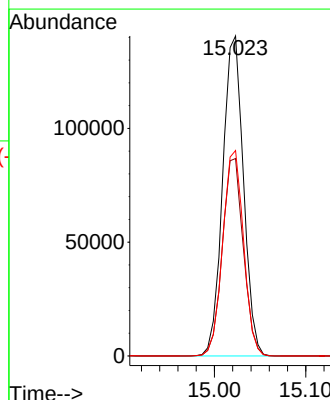
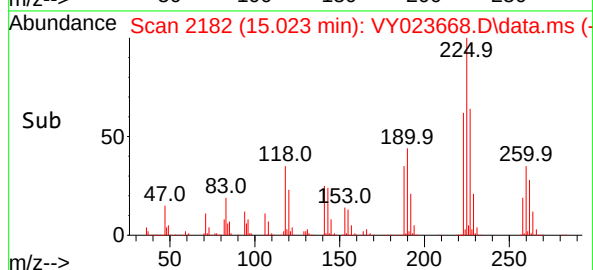
Tgt Ion:225 Resp: 222246

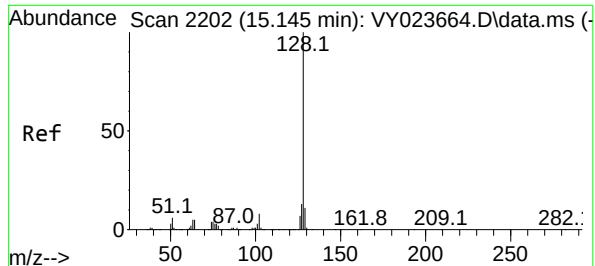
Ion Ratio Lower Upper

225 100

223 62.3 30.8 92.3

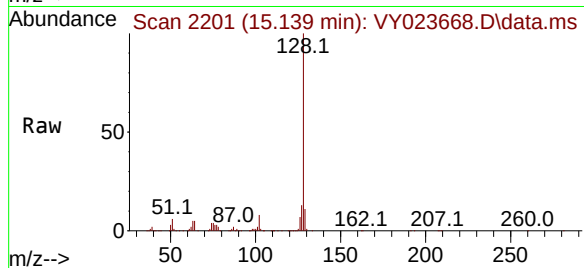
227 64.5 32.0 96.2





#95  
Naphthalene  
Concen: 48.012 ug/l  
RT: 15.139 min Scan# 2201  
Delta R.T. -0.006 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

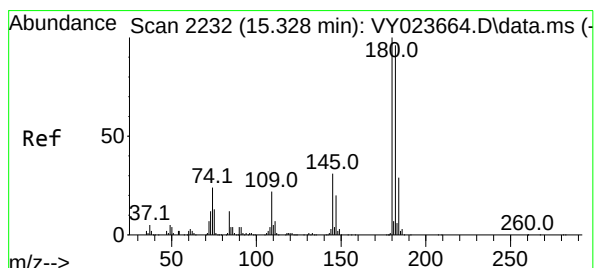
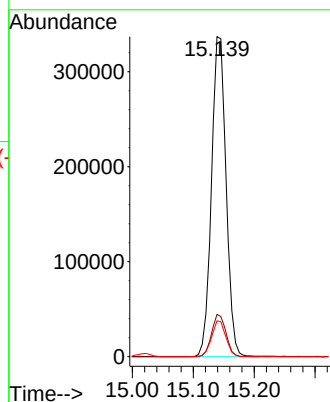
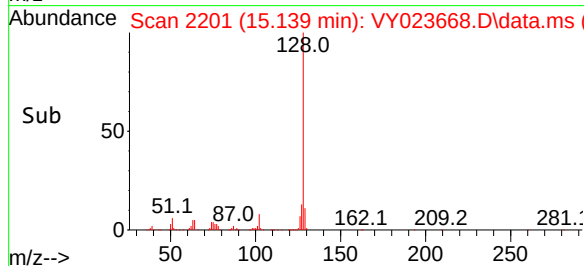
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVY110425



Tgt Ion:128 Resp: 56065  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.5 15.7  
129 11.0 8.8 13.2

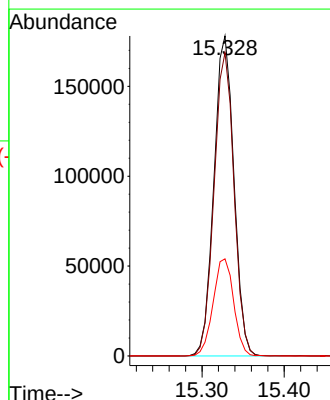
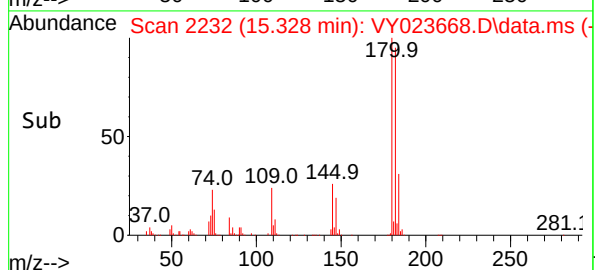
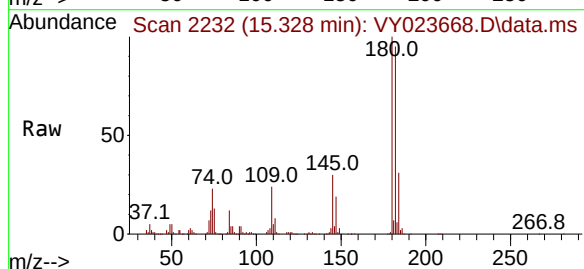
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/05/2025  
Supervised By :Mahesh Dadoda 11/05/2025



#96  
1,2,3-Trichlorobenzene  
Concen: 53.559 ug/l  
RT: 15.328 min Scan# 2232  
Delta R.T. 0.000 min  
Lab File: VY023668.D  
Acq: 04 Nov 2025 12:14

Tgt Ion:180 Resp: 300360  
Ion Ratio Lower Upper  
180 100  
182 94.5 47.5 142.6  
145 31.2 15.5 46.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0  | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.328 | 0.279 | 14.9 | 107   | 0.00     |
| 3 P   | Chloromethane               | 0.459 | 0.422 | 8.1  | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.598 | 0.543 | 9.2# | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.503 | 0.457 | 9.1  | 109   | 0.00     |
| 6 T   | Chloroethane                | 0.413 | 0.387 | 6.3  | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.842 | 0.780 | 7.4  | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 0.226 | 0.218 | 3.5  | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.464 | 0.440 | 5.2  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.548 | 0.521 | 4.9  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.028 | 0.025 | 10.7 | 114   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.447 | 0.431 | 3.6# | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.035 | 0.030 | 14.3 | 108   | 0.00     |
| 14 T  | Allyl chloride              | 0.544 | 0.544 | 0.0  | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.086 | 0.085 | 1.2  | 110   | 0.00     |
| 16 T  | Acetone                     | 0.106 | 0.097 | 8.5  | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.371 | 1.295 | 5.5  | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 0.234 | 0.207 | 11.5 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.036 | 1.058 | -2.1 | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 0.512 | 0.469 | 8.4  | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.504 | 0.494 | 2.0  | 107   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.212 | 1.242 | -2.5 | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.647 | 0.683 | -5.6 | 111   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.807 | 0.776 | 3.8  | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 0.123 | 0.116 | 5.7  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.742 | 0.719 | 3.1  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.575 | 0.572 | 0.5  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 0.309 | 0.290 | 6.1  | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.065 | 0.065 | 0.0  | 111   | 0.00     |
| 30 C  | Chloroform                  | 0.901 | 0.863 | 4.2# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 0.703 | 0.682 | 3.0  | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.805 | 0.775 | 3.7  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.427 | 0.399 | 6.6  | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.302 | 3.2  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.418 | 0.417 | 0.2  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.162 | 0.165 | -1.9 | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.492 | 0.487 | 1.0  | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.534 | 0.564 | -5.6 | 110   | 0.00     |
| 40 TM | Benzene                     | 1.316 | 1.310 | 0.5  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.088 | 0.077 | 12.5 | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.333 | 0.324 | 2.7  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.304 | 0.313 | -3.0 | 112   | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.368 | 2.6  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.290 | 0.290 | 0.0  | 107   | 0.00     |
| 46 T  | Dibromomethane              | 0.180 | 0.179 | 0.6  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.454 | 0.449 | 1.1  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.143 | 0.152 | -6.3 | 110   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.171 | -0.6  | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.162 | 0.166 | -2.5  | 111   | 0.00     |
| 52 CM | Toluene                     | 0.840 | 0.866 | -3.1# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.384 | 0.394 | -2.6  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.460 | 0.472 | -2.6  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.241 | 0.236 | 2.1   | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.265 | 0.293 | -10.6 | 111   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.381 | 0.380 | 0.3   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.122 | 0.132 | -8.2  | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.118 | 0.121 | -2.5  | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.330 | 0.331 | -0.3  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.226 | 0.0   | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.376 | 0.388 | -3.2  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.520 | 0.491 | 5.6   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.088 | 1.085 | 0.3   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.381 | 1.0   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.762 | 1.845 | -4.7# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.704 | 0.740 | -5.1  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.691 | -6.1  | 107   | 0.00     |
| 70 T  | Styrene                     | 1.074 | 1.144 | -6.5  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.226 | -0.4  | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.344 | 3.555 | -6.3  | 108   | 0.00     |
| 74 T  | N-amyl acetate              | 0.566 | 0.599 | -5.8  | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.534 | 0.538 | -0.7  | 113   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.405 | 0.385 | 4.9   | 109   | 0.00     |
| 77 T  | Bromobenzene                | 0.867 | 0.874 | -0.8  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 3.933 | 4.148 | -5.5  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.283 | 2.359 | -3.3  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.717 | 2.890 | -6.4  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.179 | 0.176 | 1.7   | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.354 | 2.420 | -2.8  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.475 | 2.678 | -8.2  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.691 | 2.875 | -6.8  | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.569 | 3.806 | -6.6  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.022 | 3.259 | -7.8  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.707 | 1.709 | -0.1  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.677 | 1.645 | 1.9   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.627 | 2.857 | -8.8  | 109   | 0.00     |
| 90 T  | Hexachloroethane            | 0.649 | 0.648 | 0.2   | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.471 | 1.474 | -0.2  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.082 | 0.078 | 4.9   | 108   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.842 | 0.894 | -6.2  | 110   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.551 | 0.557 | -1.1  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 1.257 | 1.406 | -11.9 | 114   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023668.D  
Acq On : 04 Nov 2025 12:14  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425

Quant Time: Nov 05 04:45:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.703 | 0.753 | -7.1 | 111   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY110425

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0  | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.448  | 15.1 | 107   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.957  | 8.1  | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.438  | 9.1# | 105   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.434  | 9.1  | 109   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.809  | 6.4  | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.359  | 7.3  | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.252  | 3.5  | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.433  | 5.1  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.558  | 4.9  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 224.660 | 10.1 | 114   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.194  | 3.6# | 108   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 213.558 | 14.6 | 108   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.006  | -0.0 | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 245.434 | 1.8  | 110   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 228.644 | 8.5  | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.235  | 5.5  | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.328  | 11.3 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.062  | -2.1 | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.791  | 8.4  | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.048  | 1.9  | 107   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.273  | -2.5 | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 264.163 | -5.7 | 111   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.064  | 3.9  | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.507 | 5.4  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.402  | 3.2  | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.682  | 0.6  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.849  | 6.3  | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 250.229 | -0.1 | 111   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.888  | 4.2# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.520  | 3.0  | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.137  | 3.7  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.805  | 6.4  | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.291  | 3.4  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.878  | 0.2  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.997  | -2.0 | 112   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.462  | 1.1  | 107   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.876  | -5.8 | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.773  | 0.5  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.412  | 13.2 | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.630  | 2.7  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.490  | -3.0 | 112   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.741  | 2.5  | 106   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.835  | 0.3# | 107   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 49.780  | 0.4  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 49.512  | 1.0  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 53.056  | -6.1 | 110   | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
 Data File : VY023668.D  
 Acq On : 04 Nov 2025 12:14  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY110425

Quant Time: Nov 05 04:45:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1001.883 | -0.2  | 108   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.309   | -0.6  | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.714  | -3.1  | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.540   | -3.1# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.286   | -2.6  | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.251   | -2.5  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.096   | 1.8   | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.214   | -10.4 | 111   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.813   | 0.4   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.549  | -8.6  | 109   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.278  | -2.5  | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.005   | -0.0  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.038   | -0.1  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.484   | -3.0  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.199   | 5.6   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.832   | 0.3   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.452   | 1.1   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.373   | -4.7# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.195  | -5.2  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.114   | -6.2  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.283   | -6.6  | 107   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.360   | -0.7  | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.146   | -6.3  | 108   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 52.899   | -5.8  | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.335   | -0.7  | 113   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.550   | 4.9   | 109   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.384   | -0.8  | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.723   | -5.4  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.669   | -3.3  | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.189   | -6.4  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.252   | 1.5   | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.412   | -2.8  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.107   | -8.2  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.419   | -6.8  | 107   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.321   | -6.6  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.924   | -7.8  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.050   | -0.1  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.051   | 1.9   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.369   | -8.7  | 109   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.923   | 0.2   | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.082   | -0.2  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 47.551   | 4.9   | 108   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 53.138   | -6.3  | 110   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 50.535   | -1.1  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 48.012   | 4.0   | 114   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023668.D  
Acq On : 04 Nov 2025 12:14  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY110425

Quant Time: Nov 05 04:45:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 53.559 | -7.1 | 111   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6



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

## VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                              |
|---------------------|-------------------|------------------------|------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>ALLI03</u>                |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3483</u>                 |
| Instrument ID:      | <u>MSVOA_Y</u>    | Calibration Date/Time: | <u>11/06/2025 08:42</u>      |
| Lab File ID:        | <u>VY023692.D</u> | Init. Calib. Date(s):  | <u>11/04/2025 11/04/2025</u> |
| Heated Purge: (Y/N) | <u>Y</u>          | Init. Calib. Time(s):  | <u>09:19 11:27</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                       | RRF   | RRF050 | MIN<br>RRF | %D     | MAX%D |
|--------------------------------|-------|--------|------------|--------|-------|
| Dichlorodifluoromethane        | 0.328 | 0.287  |            | -12.5  | 20    |
| Chloromethane                  | 0.459 | 0.441  | 0.1        | -3.92  | 20    |
| Vinyl Chloride                 | 0.598 | 0.567  |            | -5.18  | 20    |
| Ethyl Acetate                  | 0.162 | 0.165  |            | 1.85   | 20    |
| Isopropyl Acetate              | 0.304 | 0.294  |            | -3.29  | 20    |
| Bromomethane                   | 0.503 | 0.450  |            | -10.54 | 20    |
| Chloroethane                   | 0.413 | 0.403  |            | -2.42  | 20    |
| Tetrahydrofuran                | 0.065 | 0.064  |            | -1.54  | 20    |
| Trichlorofluoromethane         | 0.842 | 0.801  |            | -4.87  | 20    |
| 1,1,2-Trichlorotrifluoroethane | 0.464 | 0.452  |            | -2.59  | 20    |
| Tert butyl alcohol             | 0.028 | 0.024  |            | -14.29 | 20    |
| Diethyl Ether                  | 0.226 | 0.208  |            | -7.97  | 20    |
| 1,1-Dichloroethene             | 0.447 | 0.435  |            | -2.68  | 20    |
| Acrolein                       | 0.035 | 0.027  |            | -22.86 | 20    |
| Acrylonitrile                  | 0.086 | 0.085  |            | -1.16  | 20    |
| Acetone                        | 0.106 | 0.111  |            | 4.72   | 20    |
| Carbon Disulfide               | 1.371 | 1.371  |            | 0      | 20    |
| Methyl tert-butyl Ether        | 1.036 | 1.010  |            | -2.51  | 20    |
| Methyl Acetate                 | 0.234 | 0.221  |            | -5.56  | 20    |
| Methylene Chloride             | 0.512 | 0.493  |            | -3.71  | 20    |
| trans-1,2-Dichloroethene       | 0.504 | 0.513  |            | 1.79   | 20    |
| Vinyl Acetate                  | 0.647 | 0.672  |            | 3.86   | 20    |
| 1,1-Dichloroethane             | 0.807 | 0.815  | 0.1        | 0.99   | 20    |
| Cyclohexane                    | 0.703 | 0.687  |            | -2.28  | 20    |
| 2-Butanone                     | 0.123 | 0.120  |            | -2.44  | 20    |
| Carbon Tetrachloride           | 0.492 | 0.508  |            | 3.25   | 20    |
| 2,2-Dichloropropane            | 0.742 | 0.763  |            | 2.83   | 20    |
| cis-1,2-Dichloroethene         | 0.575 | 0.579  |            | 0.7    | 20    |
| Bromochloromethane             | 0.309 | 0.315  |            | 1.94   | 20    |
| Chloroform                     | 0.901 | 0.914  |            | 1.44   | 20    |
| 1,1,1-Trichloroethane          | 0.805 | 0.806  |            | 0.12   | 20    |
| Methylcyclohexane              | 0.534 | 0.552  |            | 3.37   | 20    |
| 1,1-Dichloropropene            | 0.418 | 0.435  |            | 4.07   | 20    |
| Benzene                        | 1.316 | 1.374  |            | 4.41   | 20    |
| 1,2-Dichloroethane             | 0.333 | 0.335  |            | 0.6    | 20    |
| Trichloroethene                | 0.378 | 0.379  |            | 0.26   | 20    |
| 1,2-Dichloropropane            | 0.290 | 0.300  |            | 3.45   | 20    |
| Dibromomethane                 | 0.180 | 0.182  |            | 1.11   | 20    |

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>Q3483</u>                 |
| Instrument ID:      | <u>MSVOA_Y</u>    | Calibration Date/Time: | <u>11/06/2025 08:42</u>      |
| Lab File ID:        | <u>VY023692.D</u> | Init. Calib. Date(s):  | <u>11/04/2025 11/04/2025</u> |
| Heated Purge: (Y/N) | <u>Y</u>          | Init. Calib. Time(s):  | <u>09:19 11:27</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)             |

| COMPOUND                    | RRF   | RRF050 | MIN RRF | %D    | MAX%D |
|-----------------------------|-------|--------|---------|-------|-------|
| Bromodichloromethane        | 0.454 | 0.470  |         | 3.52  | 20    |
| 4-Methyl-2-Pentanone        | 0.162 | 0.162  |         | 0     | 20    |
| Methyl methacrylate         | 0.143 | 0.145  |         | 1.4   | 20    |
| Toluene                     | 0.840 | 0.895  |         | 6.55  | 20    |
| t-1,3-Dichloropropene       | 0.384 | 0.396  |         | 3.13  | 20    |
| cis-1,3-Dichloropropene     | 0.460 | 0.479  |         | 4.13  | 20    |
| 1,1,2-Trichloroethane       | 0.241 | 0.244  |         | 1.25  | 20    |
| 1,3-Dichloropropane         | 0.381 | 0.390  |         | 2.36  | 20    |
| 2-Chloroethyl Vinyl ether   | 0.122 | 0.126  |         | 3.28  | 20    |
| 2-Hexanone                  | 0.118 | 0.120  |         | 1.7   | 20    |
| Dibromochloromethane        | 0.330 | 0.332  |         | 0.61  | 20    |
| 1,2-Dibromoethane           | 0.226 | 0.226  |         | 0     | 20    |
| Tetrachloroethene           | 0.520 | 0.519  |         | -0.19 | 20    |
| Chlorobenzene               | 1.089 | 1.108  | 0.3     | 1.75  | 20    |
| 1,1,1,2-Tetrachloroethane   | 0.385 | 0.393  |         | 2.08  | 20    |
| Hexachloroethane            | 0.649 | 0.668  |         | 2.93  | 20    |
| Ethyl Benzene               | 1.762 | 1.896  |         | 7.61  | 20    |
| m/p-Xylenes                 | 0.704 | 0.762  |         | 8.24  | 20    |
| o-Xylene                    | 0.651 | 0.691  |         | 6.14  | 20    |
| Styrene                     | 1.074 | 1.161  |         | 8.1   | 20    |
| Bromoform                   | 0.225 | 0.222  | 0.1     | -1.33 | 20    |
| Isopropylbenzene            | 3.344 | 3.627  |         | 8.46  | 20    |
| 1,1,2,2-Tetrachloroethane   | 0.534 | 0.526  | 0.3     | -1.5  | 20    |
| 1,2,3-Trichloropropane      | 0.405 | 0.415  |         | 2.47  | 20    |
| Bromobenzene                | 0.867 | 0.891  |         | 2.77  | 20    |
| n-propylbenzene             | 3.934 | 4.292  |         | 9.1   | 20    |
| 2-Chlorotoluene             | 2.283 | 2.455  |         | 7.53  | 20    |
| 1,3,5-Trimethylbenzene      | 2.717 | 3.006  |         | 10.64 | 20    |
| 4-Chlorotoluene             | 2.354 | 2.526  |         | 7.31  | 20    |
| tert-Butylbenzene           | 2.475 | 2.656  |         | 7.31  | 20    |
| 1,2,4-Trimethylbenzene      | 2.691 | 2.972  |         | 10.44 | 20    |
| sec-Butylbenzene            | 3.569 | 3.863  |         | 8.24  | 20    |
| p-Isopropyltoluene          | 3.022 | 3.297  |         | 9.1   | 20    |
| 1,3-Dichlorobenzene         | 1.707 | 1.741  |         | 1.99  | 20    |
| 1,4-Dichlorobenzene         | 1.677 | 1.694  |         | 1.01  | 20    |
| n-Butylbenzene              | 2.627 | 2.900  |         | 10.39 | 20    |
| 1,2-Dichlorobenzene         | 1.471 | 1.494  |         | 1.56  | 20    |
| 1,2-Dibromo-3-Chloropropane | 0.082 | 0.077  |         | -6.1  | 20    |

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>Q3483</u>                        |
| Instrument ID:      | <u>MSVOA_Y</u>    | Calibration Date/Time: | <u>11/06/2025</u> <u>08:42</u>      |
| Lab File ID:        | <u>VY023692.D</u> | Init. Calib. Date(s):  | <u>11/04/2025</u> <u>11/04/2025</u> |
| Heated Purge: (Y/N) | <u>Y</u>          | Init. Calib. Time(s):  | <u>09:19</u> <u>11:27</u>           |
| GC Column:          | <u>RXI-624</u>    | ID:                    | <u>0.25</u> (mm)                    |

| COMPOUND                    | RRF   | RRF050 | MIN<br>RRF | %D    | MAX%D |
|-----------------------------|-------|--------|------------|-------|-------|
| 1,2,4-Trichlorobenzene      | 0.842 | 0.844  |            | 0.24  | 20    |
| Hexachlorobutadiene         | 0.551 | 0.564  |            | 2.36  | 20    |
| Naphthalene                 | 1.257 | 1.234  |            | -1.83 | 20    |
| 1,2,3-Trichlorobenzene      | 0.703 | 0.695  |            | -1.14 | 20    |
| 1,2-Dichloroethane-d4       | 0.427 | 0.431  |            | 0.94  | 20    |
| Dibromofluoromethane        | 0.312 | 0.326  |            | 4.49  | 20    |
| Toluene-d8                  | 1.164 | 1.254  |            | 7.73  | 20    |
| 4-Bromofluorobenzene        | 0.376 | 0.410  |            | 9.04  | 20    |
| N-amyl acetate              | 0.566 | 0.562  |            | -0.71 | 20    |
| Methyl Iodide               | 0.548 | 0.569  |            | 3.83  | 20    |
| Allyl chloride              | 0.544 | 0.558  |            | 2.57  | 20    |
| trans-1,4-Dichloro-2-butene | 0.179 | 0.179  |            | 0     | 20    |
| Methacrylonitrile           | 0.088 | 0.086  |            | -2.27 | 20    |
| Diisopropyl ether           | 1.212 | 1.278  |            | 5.45  | 20    |
| 1,4-Dioxane                 | 1.842 | 1.874  | 0.05       | 1.74  | 50    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 535947   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 779935   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 686552   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 343829   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.067  | 65    | 231061   | 50.542   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | = 101.080% |      |
| 35) Dibromofluoromethane  | 7.634  | 113   | 253987   | 52.110   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | = 104.220% |      |
| 50) Toluene-d8            | 10.109 | 98    | 977701   | 53.849   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | = 107.700% |      |
| 62) 4-Bromofluorobenzene  | 12.408 | 95    | 319587   | 54.429   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 30 - 143 | Recovery | = 108.860% |      |

## Target Compounds

|                              |       |     |         |         |      | Qvalue |
|------------------------------|-------|-----|---------|---------|------|--------|
|                              |       |     |         |         |      |        |
| 2) Dichlorodifluoromethane   | 1.867 | 85  | 153719  | 43.694  | ug/l | 97     |
| 3) Chloromethane             | 2.074 | 50  | 236313  | 48.001  | ug/l | 99     |
| 4) Vinyl Chloride            | 2.208 | 62  | 303842  | 47.430  | ug/l | 99     |
| 5) Bromomethane              | 2.598 | 94  | 240985  | 44.720  | ug/l | 97     |
| 6) Chloroethane              | 2.739 | 64  | 216012  | 48.787  | ug/l | 99     |
| 7) Trichlorofluoromethane    | 3.062 | 101 | 429485  | 47.603  | ug/l | 99     |
| 8) Diethyl Ether             | 3.458 | 74  | 111487  | 46.079  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 242221  | 48.727  | ug/l | 99     |
| 10) Methyl Iodide            | 4.007 | 142 | 304822  | 51.929  | ug/l | 99     |
| 11) Tert butyl alcohol       | 4.860 | 59  | 63352   | 214.909 | ug/l | 100    |
| 12) 1,1-Dichloroethene       | 3.793 | 96  | 233341  | 48.730  | ug/l | 99     |
| 13) Acrolein                 | 3.653 | 56  | 72090   | 190.265 | ug/l | 99     |
| 14) Allyl chloride           | 4.391 | 41  | 298881  | 51.279  | ug/l | 99     |
| 15) Acrylonitrile            | 5.061 | 53  | 227513  | 246.060 | ug/l | 99     |
| 16) Acetone                  | 3.866 | 43  | 297849  | 262.102 | ug/l | 95     |
| 17) Carbon Disulfide         | 4.110 | 76  | 734844  | 50.000  | ug/l | 99     |
| 18) Methyl Acetate           | 4.385 | 43  | 118452  | 47.257  | ug/l | 100    |
| 19) Methyl tert-butyl Ether  | 5.122 | 73  | 541443  | 48.763  | ug/l | 99     |
| 20) Methylene Chloride       | 4.616 | 84  | 264205  | 48.161  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene | 5.122 | 96  | 274819  | 50.901  | ug/l | 99     |
| 22) Diisopropyl ether        | 6.025 | 45  | 684904  | 52.737  | ug/l | 99     |
| 23) Vinyl Acetate            | 5.964 | 43  | 1800742 | 259.826 | ug/l | 99     |
| 24) 1,1-Dichloroethane       | 5.921 | 63  | 436899  | 50.497  | ug/l | 100    |
| 25) 2-Butanone               | 6.896 | 43  | 321194  | 244.465 | ug/l | 99     |
| 26) 2,2-Dichloropropane      | 6.884 | 77  | 408917  | 51.381  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene   | 6.896 | 96  | 310205  | 50.307  | ug/l | 98     |
| 28) Bromochloromethane       | 7.250 | 49  | 168937  | 50.995  | ug/l | 97     |
| 29) Tetrahydrofuran          | 7.262 | 42  | 171724  | 245.417 | ug/l | 97     |
| 30) Chloroform               | 7.427 | 83  | 490108  | 50.771  | ug/l | 100    |
| 31) Cyclohexane              | 7.707 | 56  | 368358  | 48.888  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane    | 7.622 | 97  | 432084  | 50.080  | ug/l | 99     |
| 36) 1,1-Dichloropropene      | 7.841 | 75  | 339044  | 52.056  | ug/l | 98     |
| 37) Ethyl Acetate            | 6.988 | 43  | 128432  | 50.938  | ug/l | 97     |
| 38) Carbon Tetrachloride     | 7.823 | 117 | 396586  | 51.680  | ug/l | 99     |
| 39) Methylcyclohexane        | 9.109 | 83  | 430837  | 51.771  | ug/l | 96     |
| 40) Benzene                  | 8.085 | 78  | 1071461 | 52.191  | ug/l | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 66920m   | 48.625   | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 261084   | 50.268   | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 229436   | 48.431   | ug/l  | 98       |
| 44) Trichloroethene           | 8.866  | 130  | 295321   | 50.084   | ug/l  | 99       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 233932   | 51.631   | ug/l  | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 141674   | 50.465   | ug/l  | 97       |
| 47) Bromodichloromethane      | 9.426  | 83   | 366848   | 51.829   | ug/l  | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 112802   | 50.398   | ug/l  | 99       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 29230    | 1017.395 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 630843   | 250.399  | ug/l  | 99       |
| 52) Toluene                   | 10.170 | 92   | 698091   | 53.262   | ug/l  | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 308969   | 51.590   | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 373395   | 52.038   | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 190645   | 50.815   | ug/l  | 95       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 210565   | 50.939   | ug/l  | 99       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 304445   | 51.160   | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 490497   | 258.588  | ug/l  | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 469572   | 255.473  | ug/l  | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 258963   | 50.236   | ug/l  | 99       |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 176512   | 50.132   | ug/l  | 99       |
| 64) Tetrachloroethene         | 10.652 | 164  | 356458   | 49.883   | ug/l  | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 760981   | 50.915   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 269685   | 51.027   | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 1301401  | 53.799   | ug/l  | 97       |
| 68) m/p-Xylenes               | 11.627 | 106  | 1046555  | 108.286  | ug/l  | 100      |
| 69) o-Xylene                  | 11.957 | 106  | 474104   | 53.067   | ug/l  | 97       |
| 70) Styrene                   | 11.969 | 104  | 797122   | 54.077   | ug/l  | 99       |
| 71) Bromoform                 | 12.133 | 173  | 152278   | 49.333   | ug/l  | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 1247196  | 54.235   | ug/l  | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 193086   | 49.594   | ug/l  | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 180988   | 49.279   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 142693m  | 51.280   | ug/l  |          |
| 77) Bromobenzene              | 12.536 | 156  | 306426   | 51.371   | ug/l  | 97       |
| 78) n-propylbenzene           | 12.597 | 91   | 1475672  | 54.555   | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 844237   | 53.786   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1033388  | 55.309   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 61422    | 49.884   | ug/l  | 97       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 868577   | 53.657   | ug/l  | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 913367   | 53.674   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1021769  | 55.213   | ug/l  | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 1328351  | 54.121   | ug/l  | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1133654  | 54.561   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 598647   | 50.991   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 582564   | 50.514   | ug/l  | 100      |
| 89) n-Butylbenzene            | 13.615 | 91   | 997124   | 55.188   | ug/l  | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 229647   | 51.431   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 513536   | 50.757   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 26567    | 46.980   | ug/l  | 98       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 290360   | 50.173   | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 193773   | 51.103   | ug/l  | 99       |
| 95) Naphthalene               | 15.145 | 128  | 424304   | 42.786   | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 238992   | 49.428   | ug/l  | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023692.D  
Acq On : 06 Nov 2025 08:42  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:11:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

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

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



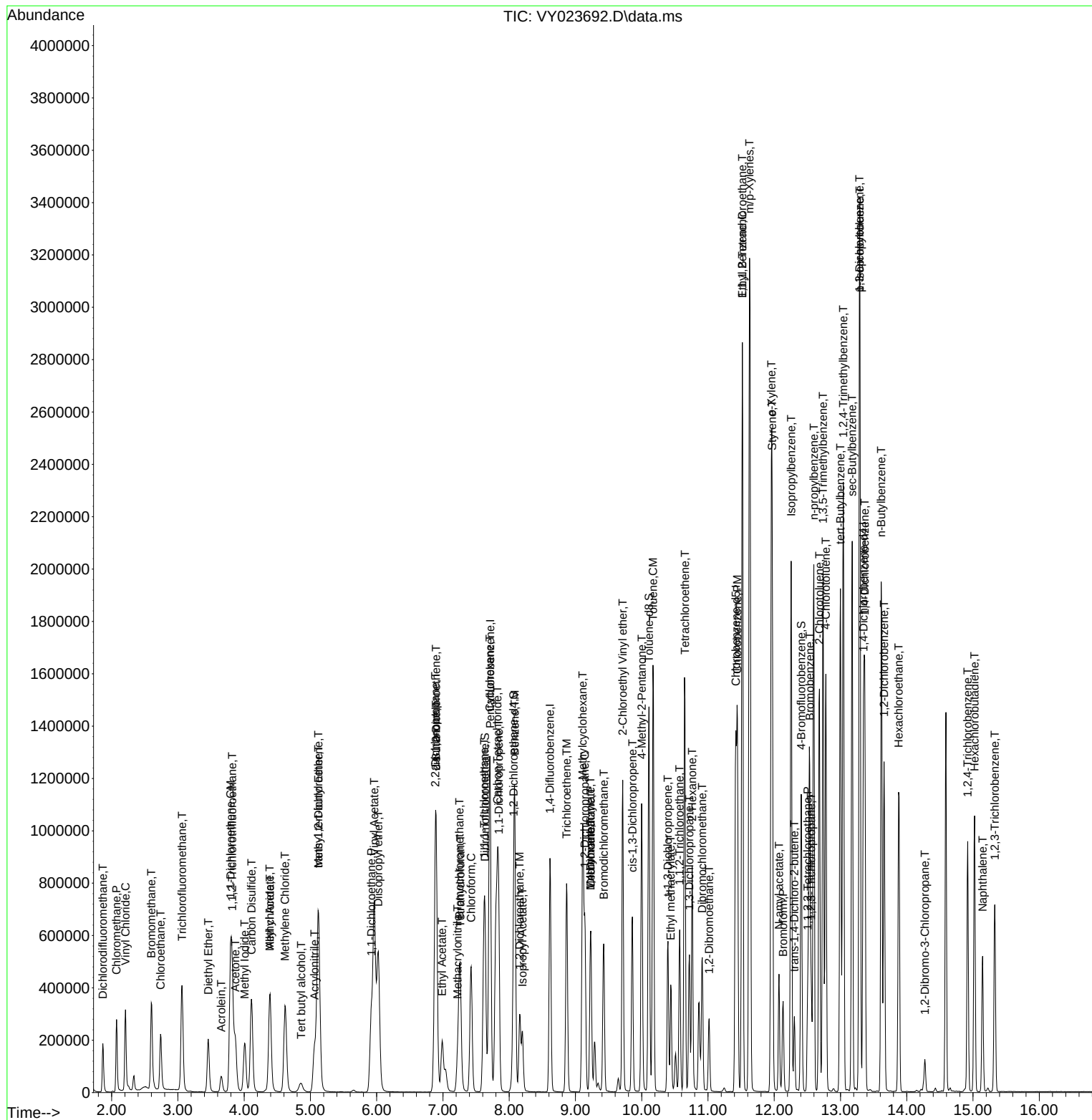
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 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/soil  
 ALS Vial : 2 Sample Multiplier: 1

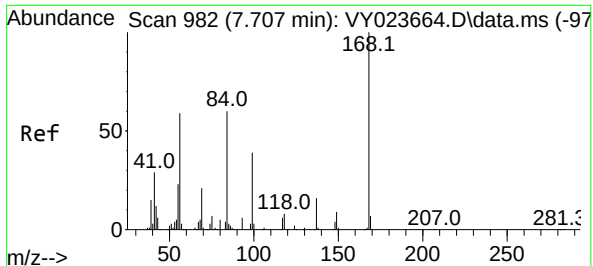
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

### Manual Integrations APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

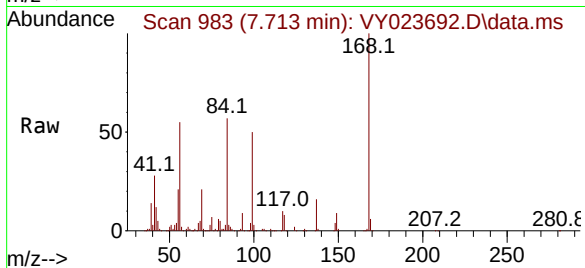
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

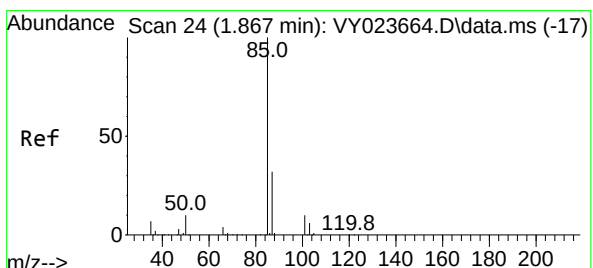
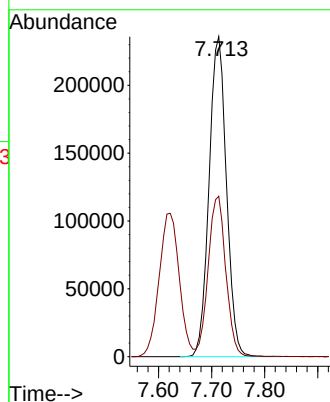
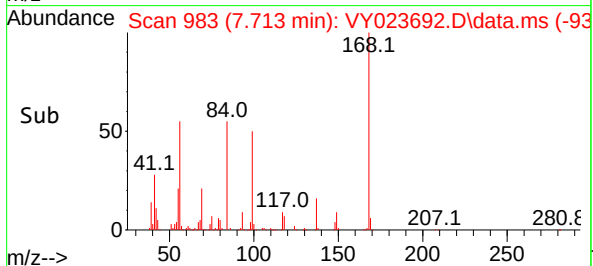
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion:168 Resp: 53594  
Ion Ratio Lower Upper  
168 100  
99 50.0 41.0 61.4

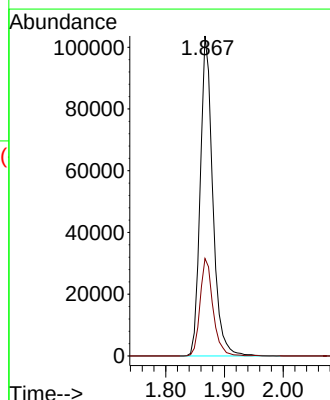
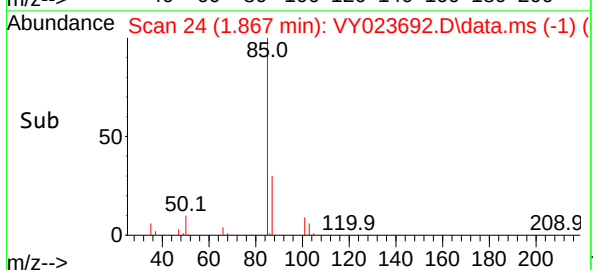
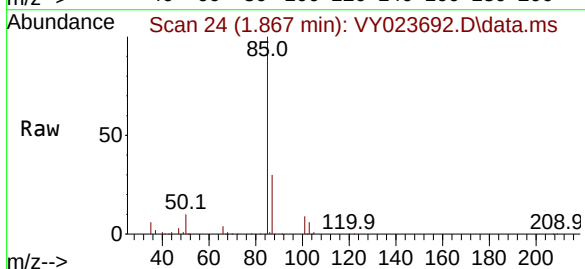
Manual Integrations  
APPROVED

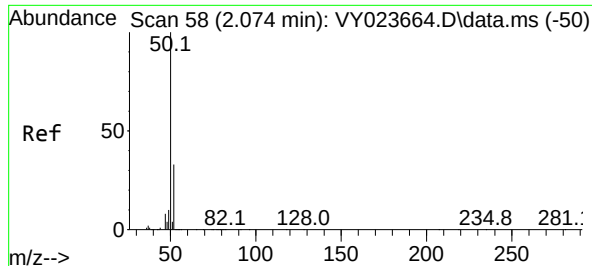
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#2  
Dichlorodifluoromethane  
Concen: 43.694 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

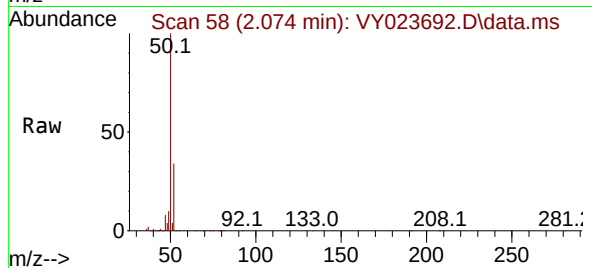
Tgt Ion: 85 Resp: 153719  
Ion Ratio Lower Upper  
85 100  
87 30.5 16.2 48.6





#3  
Chloromethane  
Concen: 48.001 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

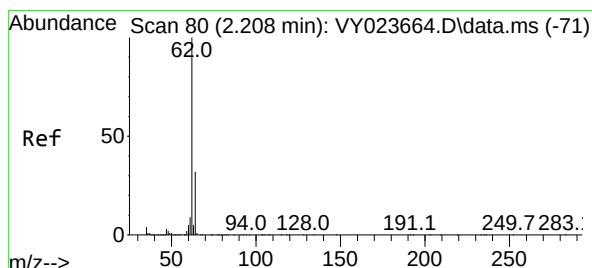
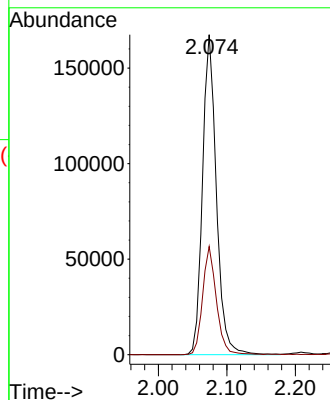
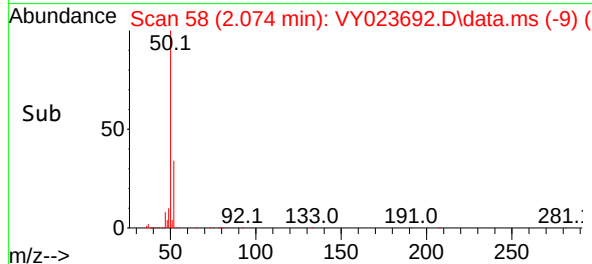
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



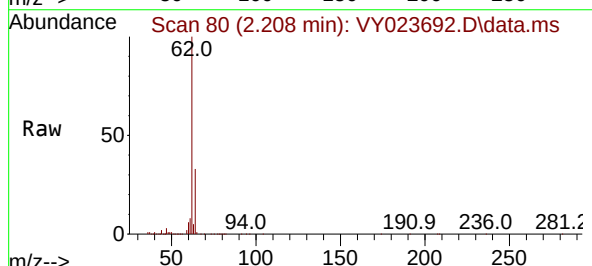
Tgt Ion: 50 Resp: 23631  
Ion Ratio Lower Upper  
50 100  
52 33.8 26.5 39.7

Manual Integrations  
APPROVED

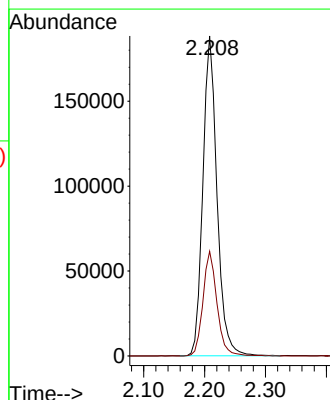
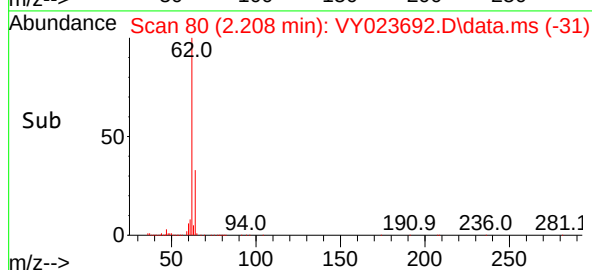
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

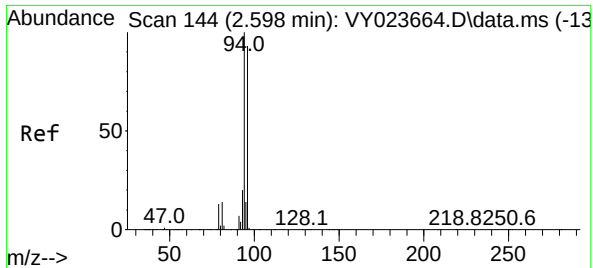


#4  
Vinyl Chloride  
Concen: 47.430 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



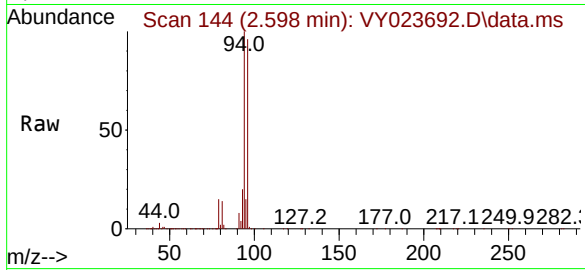
Tgt Ion: 62 Resp: 303842  
Ion Ratio Lower Upper  
62 100  
64 32.7 25.7 38.5





#5  
Bromomethane  
Concen: 44.720 ug/l  
RT: 2.598 min Scan# 144  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

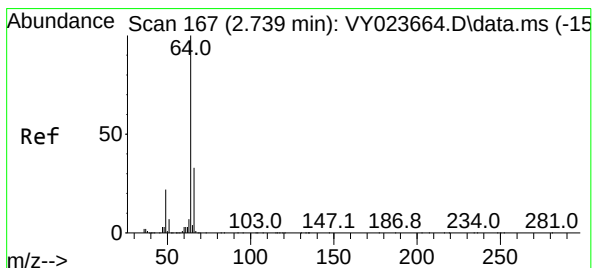
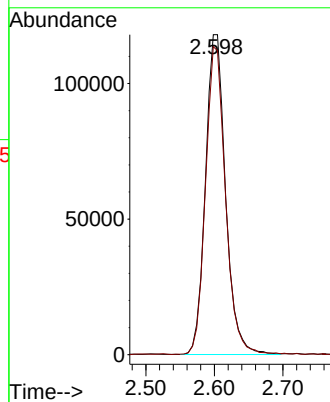
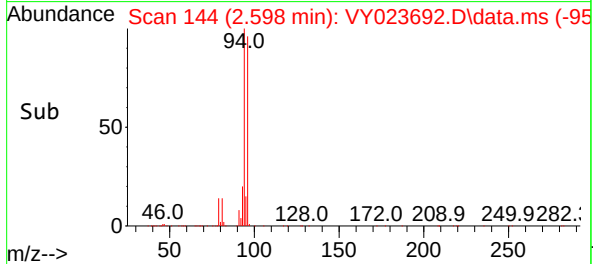
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



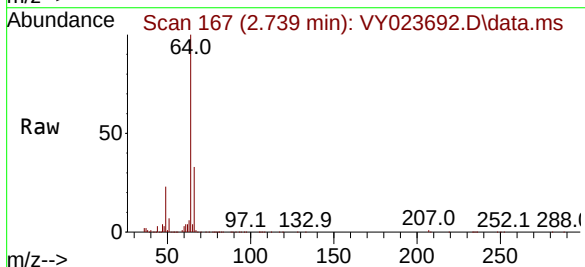
Tgt Ion: 94 Resp: 240985  
Ion Ratio Lower Upper  
94 100  
96 96.2 74.4 111.6

Manual Integrations  
APPROVED

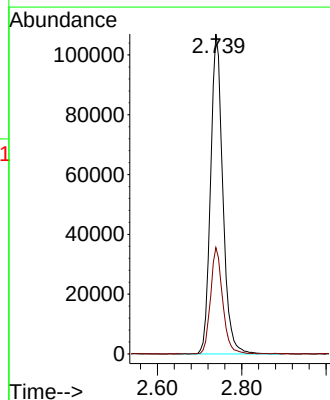
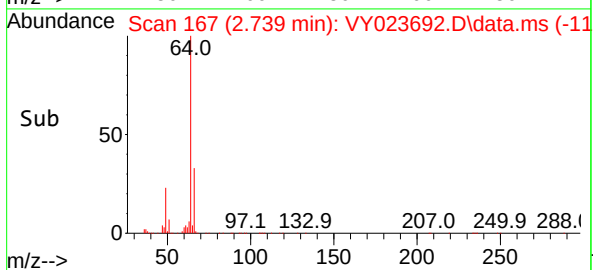
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

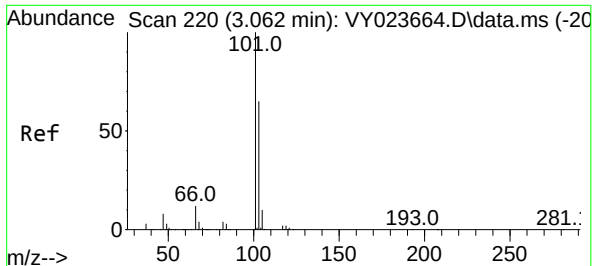


#6  
Chloroethane  
Concen: 48.787 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



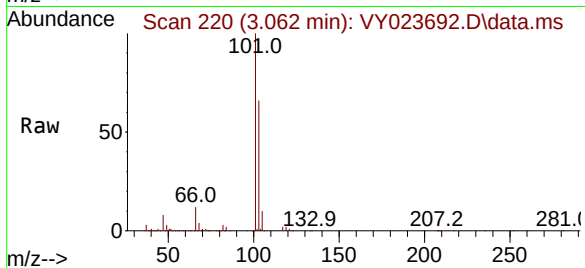
Tgt Ion: 64 Resp: 216012  
Ion Ratio Lower Upper  
64 100  
66 33.2 26.2 39.4





#7  
 Trichlorofluoromethane  
 Concen: 47.603 ug/l  
 RT: 3.062 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY023692.D  
 Acq: 06 Nov 2025 08:42

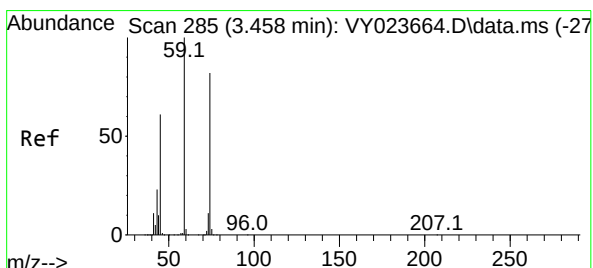
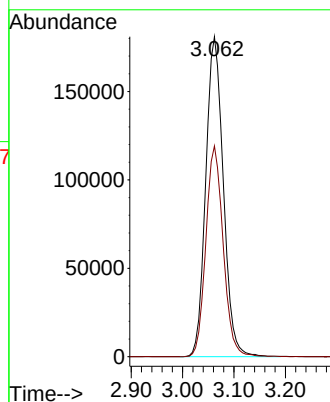
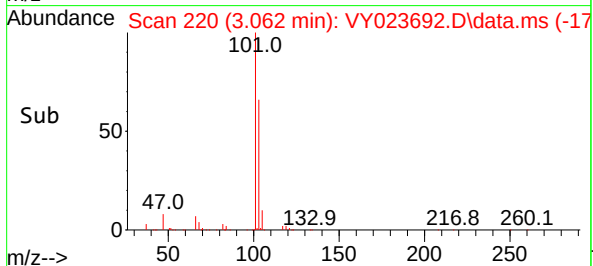
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050



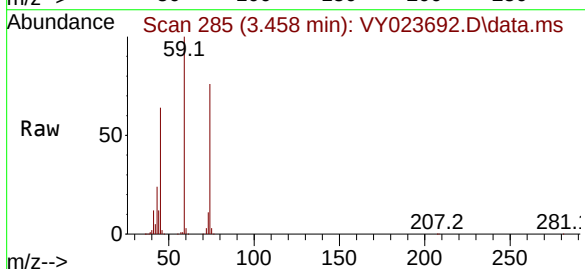
Tgt Ion:101 Resp: 42948  
 Ion Ratio Lower Upper  
 101 100  
 103 65.9 52.1 78.1

Manual Integrations  
 APPROVED

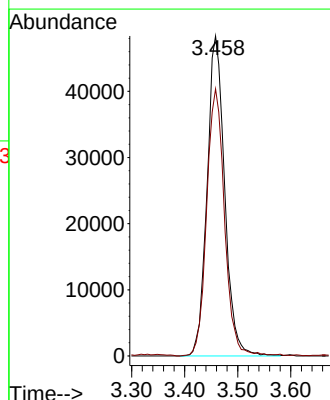
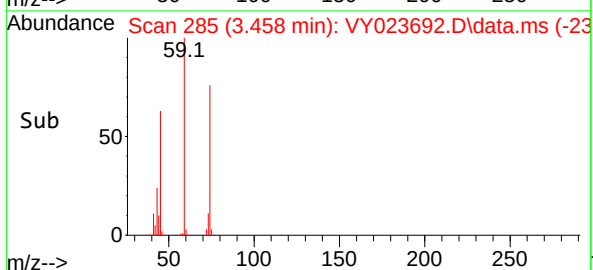
Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

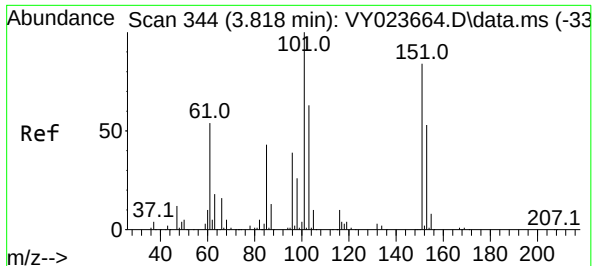


#8  
 Diethyl Ether  
 Concen: 46.079 ug/l  
 RT: 3.458 min Scan# 285  
 Delta R.T. 0.000 min  
 Lab File: VY023692.D  
 Acq: 06 Nov 2025 08:42



Tgt Ion: 74 Resp: 111487  
 Ion Ratio Lower Upper  
 74 100  
 45 84.8 40.6 121.7





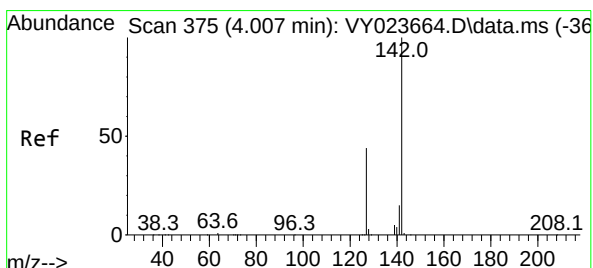
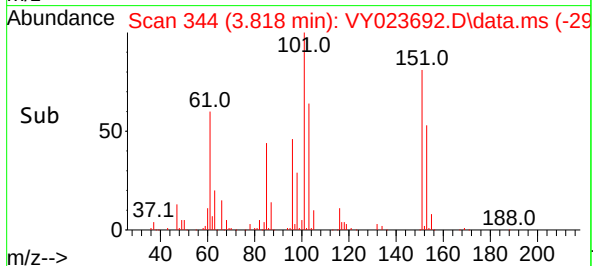
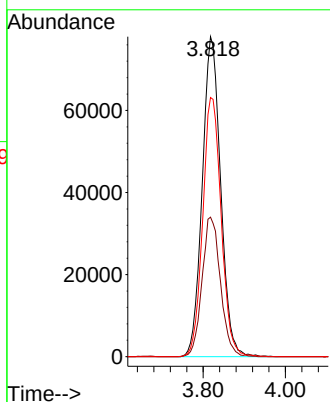
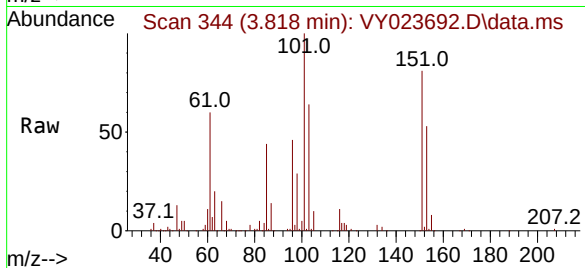
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 48.727 ug/l  
RT: 3.818 min Scan# 344  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Tgt Ion:101 Resp: 24222  
Ion Ratio Lower Upper  
101 100  
85 43.7 34.4 51.6  
151 81.4 65.6 98.4

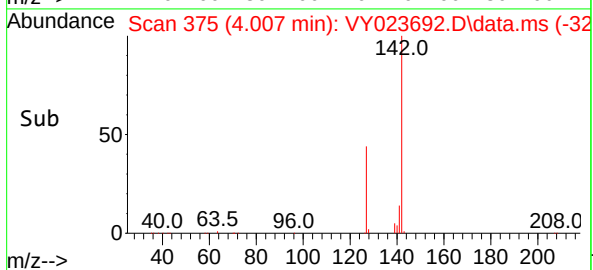
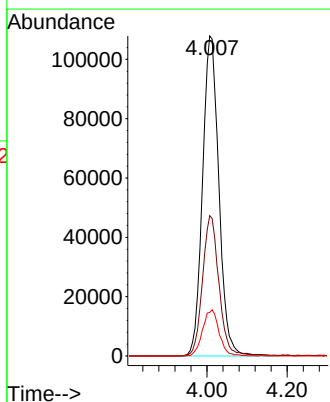
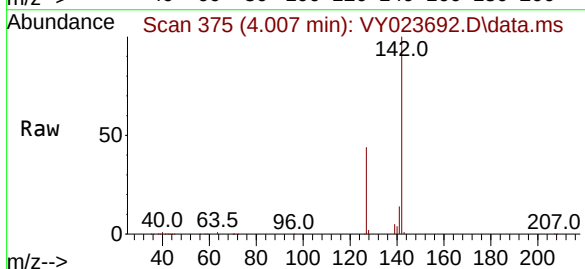
Manual Integrations  
APPROVED

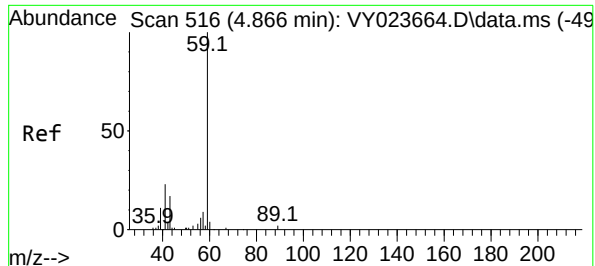
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#10  
Methyl Iodide  
Concen: 51.929 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion:142 Resp: 304822  
Ion Ratio Lower Upper  
142 100  
127 44.0 34.6 51.8  
141 14.6 11.6 17.4





#11

Tert butyl alcohol

Concen: 214.909 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 63352

Ion Ratio Lower Upper

59 100

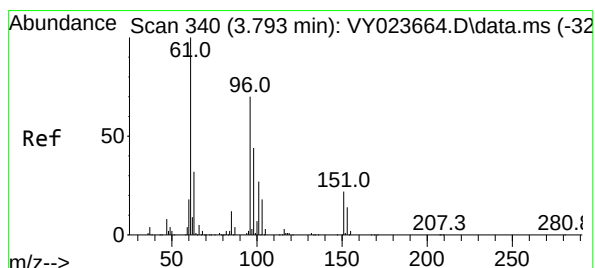
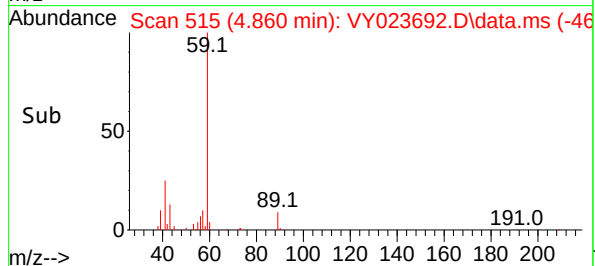
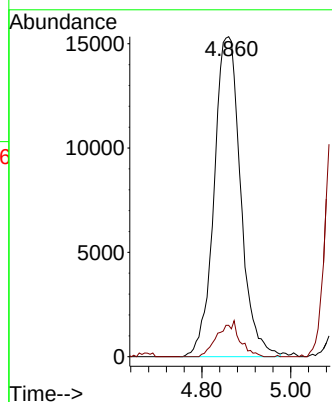
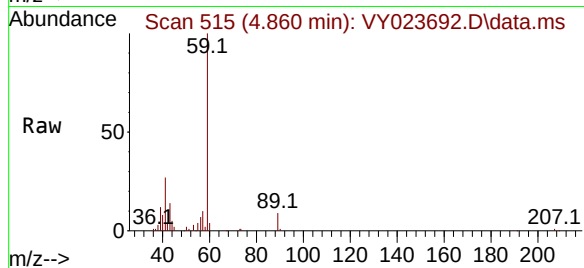
57 9.4 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#12

1,1-Dichloroethene

Concen: 48.730 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

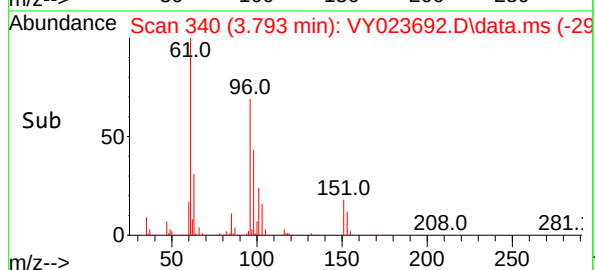
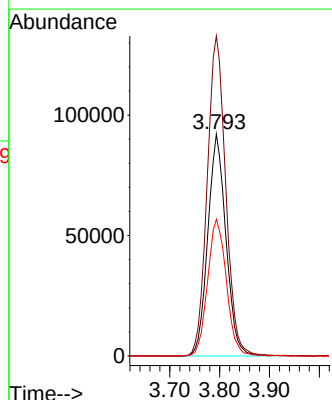
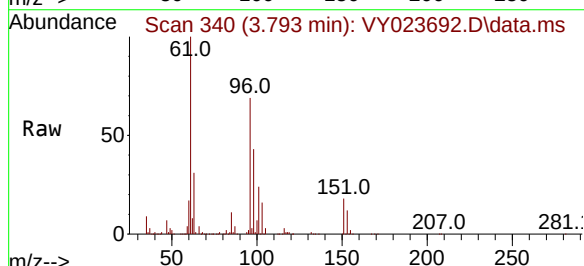
Tgt Ion: 96 Resp: 233341

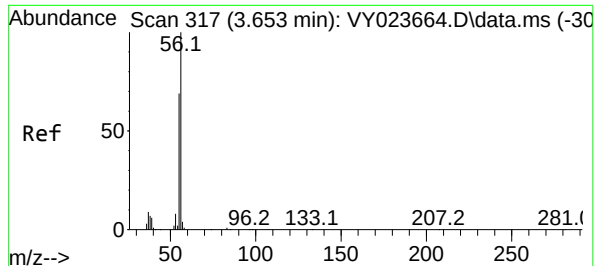
Ion Ratio Lower Upper

96 100

61 144.2 114.0 171.0

98 61.5 50.2 75.2





#13

Acrolein

Concen: 190.265 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023692.D

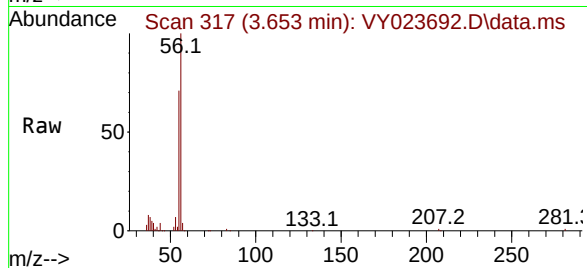
Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050



Tgt Ion: 56 Resp: 72090

Ion Ratio Lower Upper

56 100

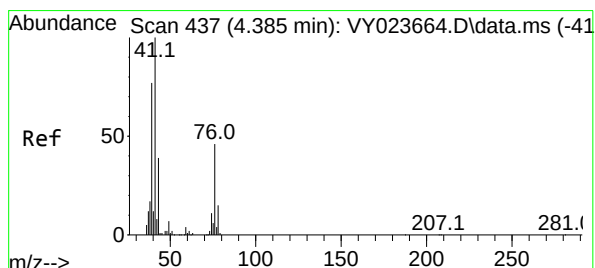
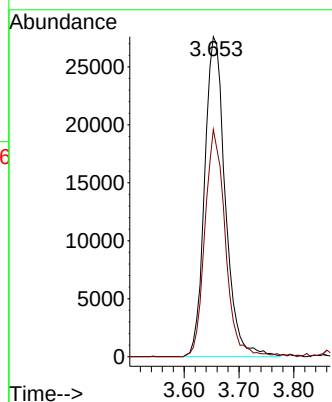
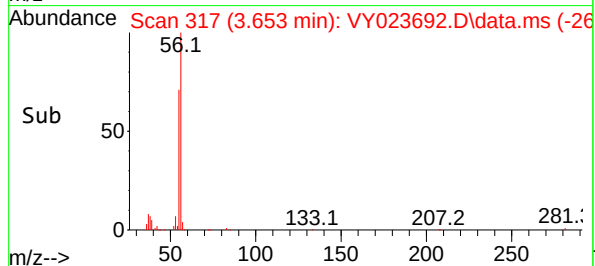
55 69.9 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#14

Allyl chloride

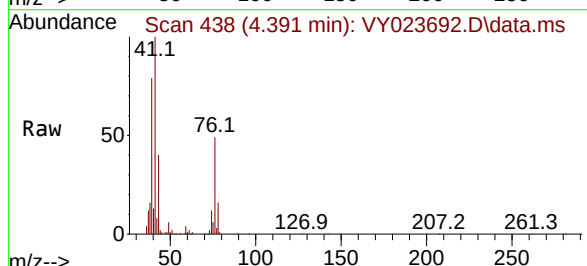
Concen: 51.279 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42



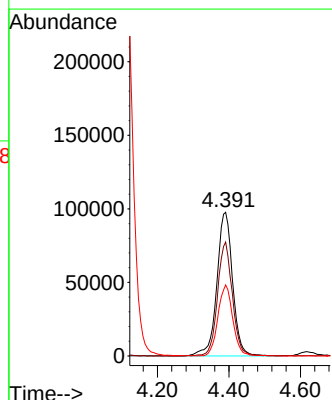
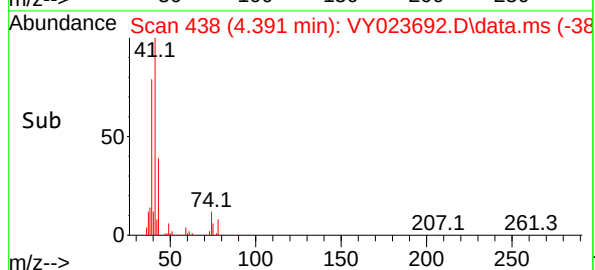
Tgt Ion: 41 Resp: 298881

Ion Ratio Lower Upper

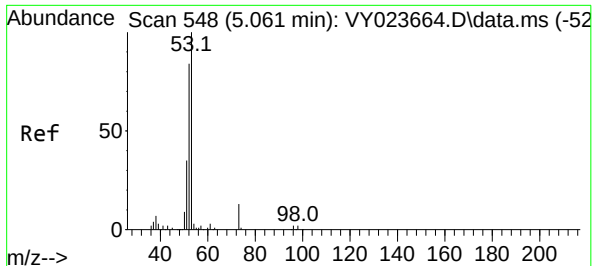
41 100

39 74.6 60.4 90.6

76 46.4 38.0 57.0







#15

Acrylonitrile

Concen: 246.060 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 22751

Ion Ratio Lower Upper

53 100

52 80.3 64.9 97.3

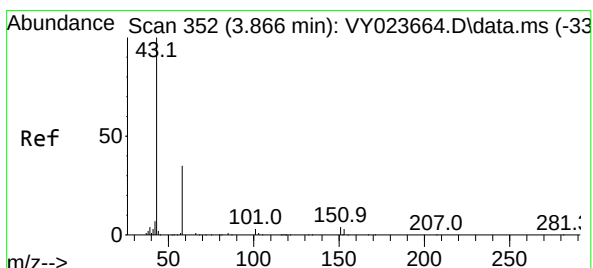
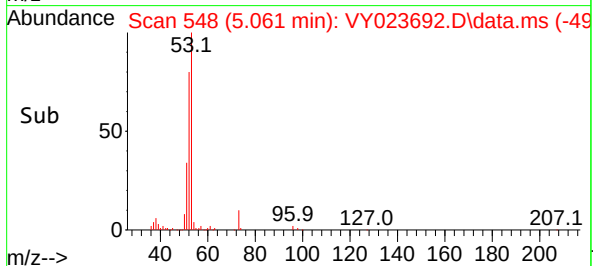
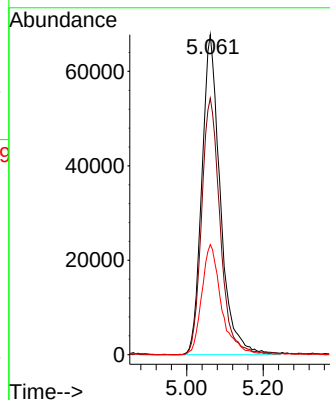
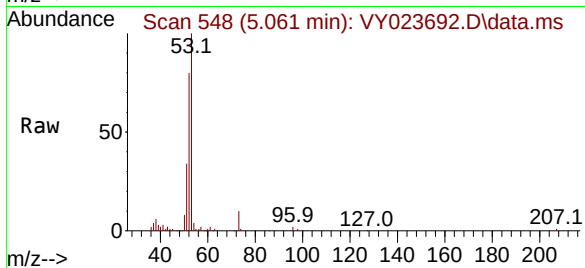
51 36.7 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#16

Acetone

Concen: 262.102 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023692.D

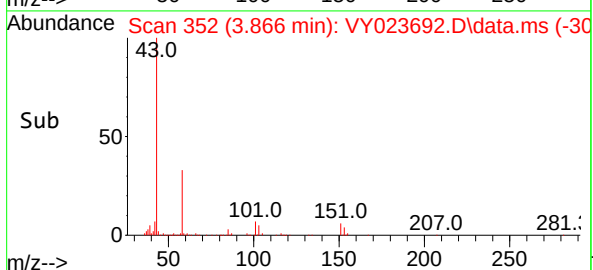
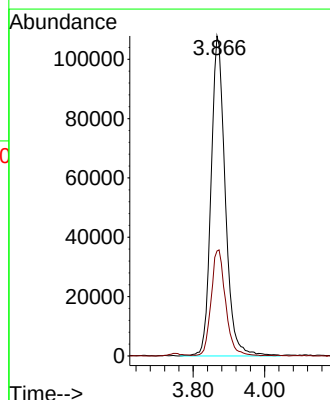
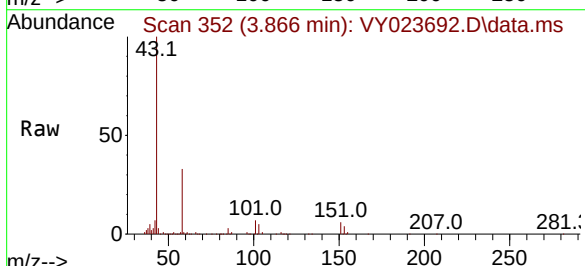
Acq: 06 Nov 2025 08:42

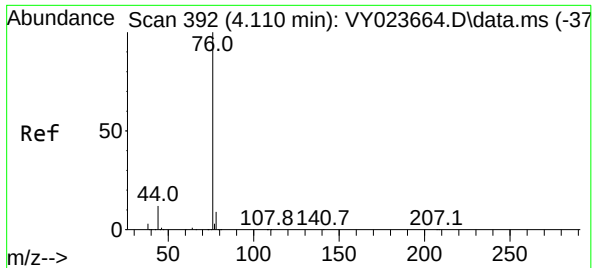
Tgt Ion: 43 Resp: 297849

Ion Ratio Lower Upper

43 100

58 32.6 28.2 42.4





#17

Carbon Disulfide

Concen: 50.000 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 73484

Ion Ratio Lower Upper

76 100

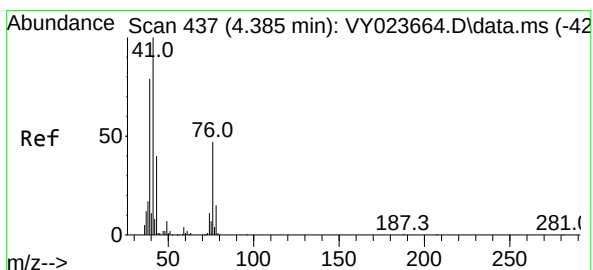
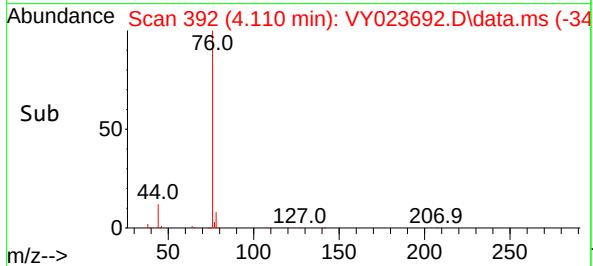
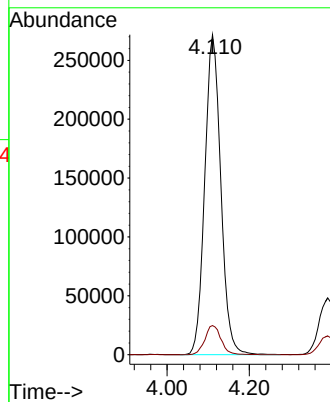
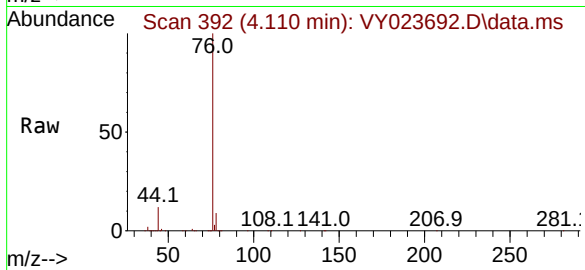
78 9.1 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#18

Methyl Acetate

Concen: 47.257 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023692.D

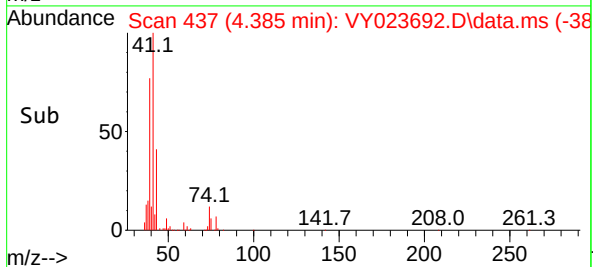
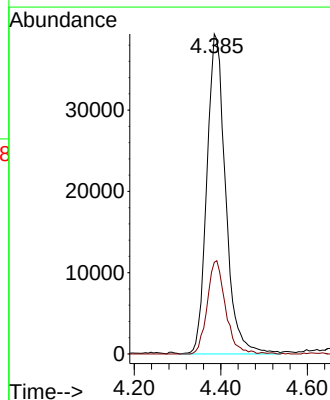
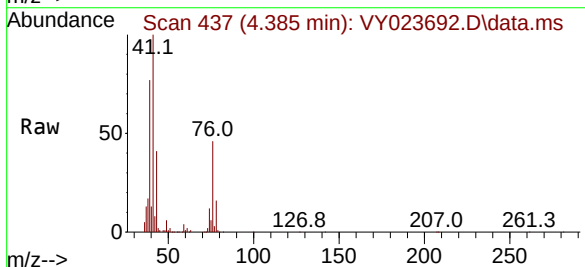
Acq: 06 Nov 2025 08:42

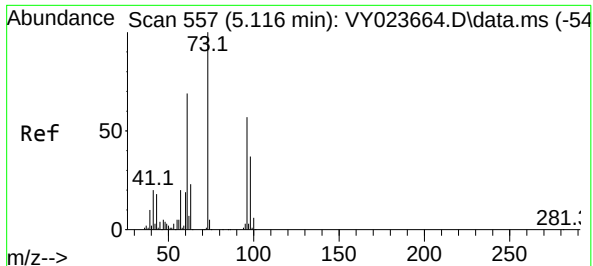
Tgt Ion: 43 Resp: 118452

Ion Ratio Lower Upper

43 100

74 28.4 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 48.763 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 54144

Ion Ratio Lower Upper

73 100

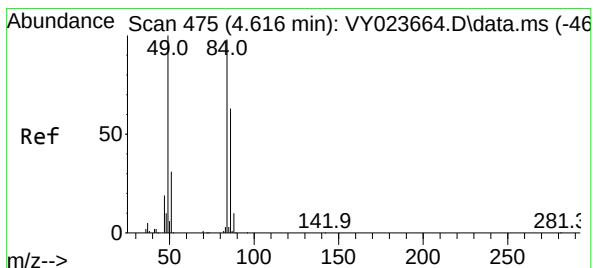
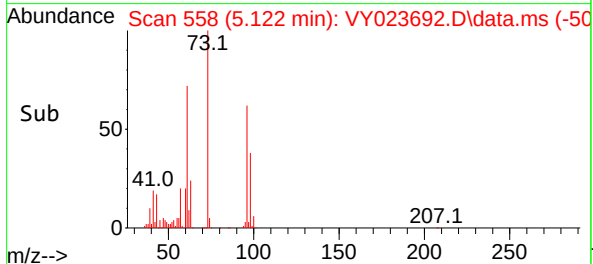
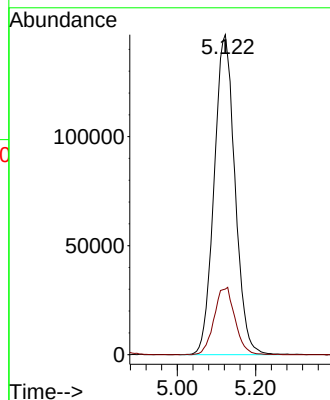
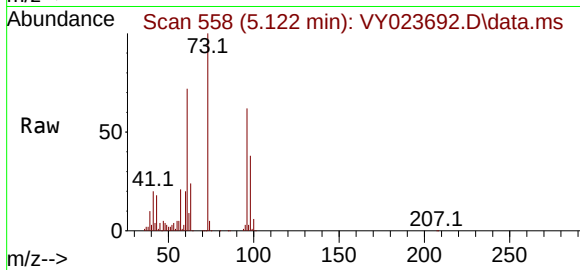
57 20.5 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#20

Methylene Chloride

Concen: 48.161 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Tgt Ion: 84 Resp: 264205

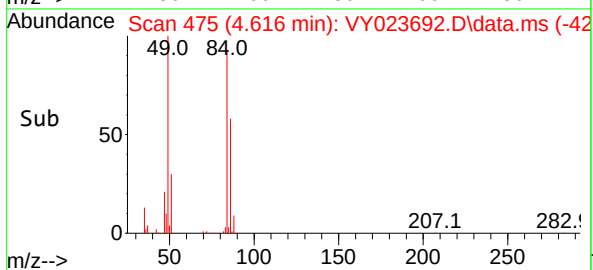
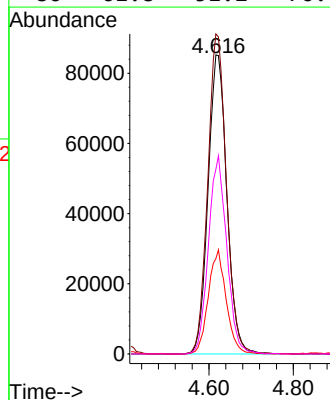
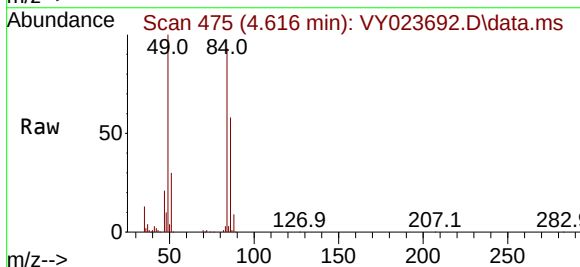
Ion Ratio Lower Upper

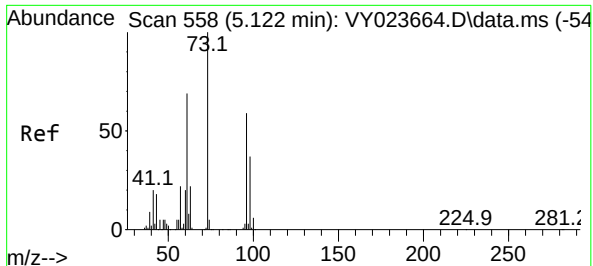
84 100

49 107.0 81.5 122.3

51 31.9 25.5 38.3

86 61.8 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 50.901 ug/l

RT: 5.122 min Scan# 558

Delta R.T. 0.000 min

Lab File: VY023692.D

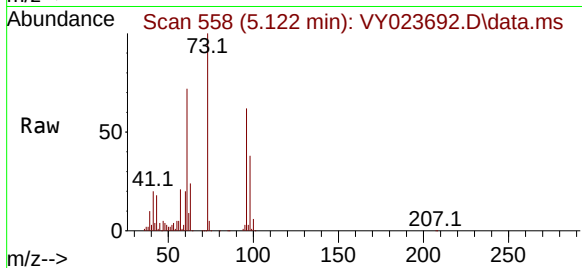
Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050



Tgt Ion: 96 Resp: 274819

Ion Ratio Lower Upper

96 100

61 116.7 93.3 139.9

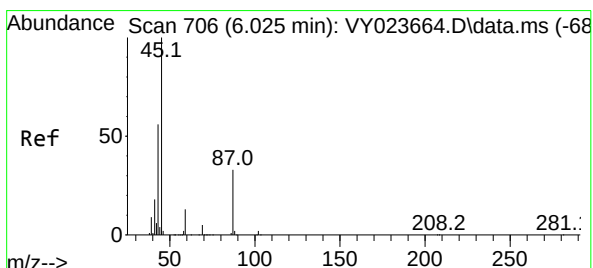
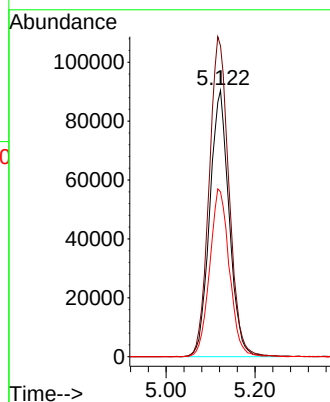
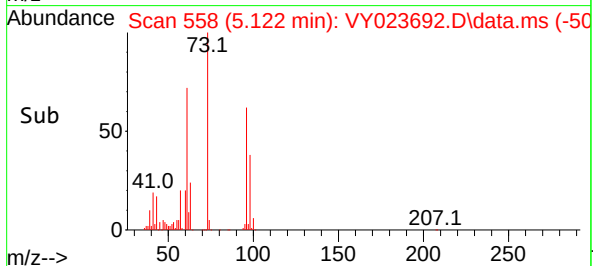
98 61.9 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#22

Diisopropyl ether

Concen: 52.737 ug/l

RT: 6.025 min Scan# 706

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Tgt Ion: 45 Resp: 684904

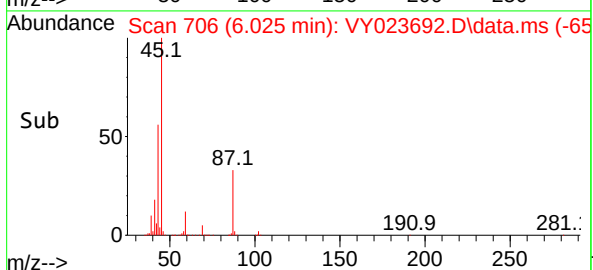
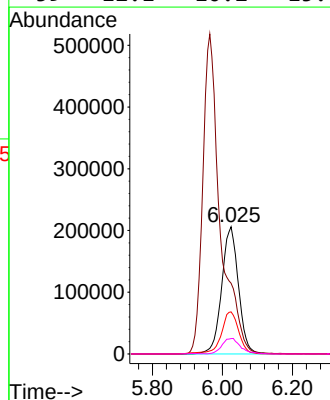
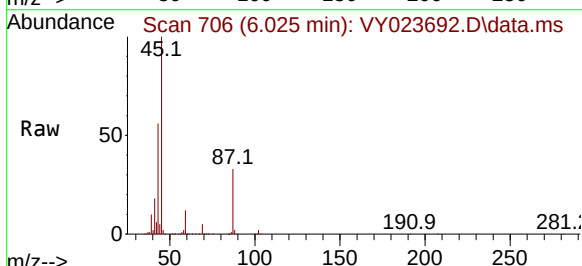
Ion Ratio Lower Upper

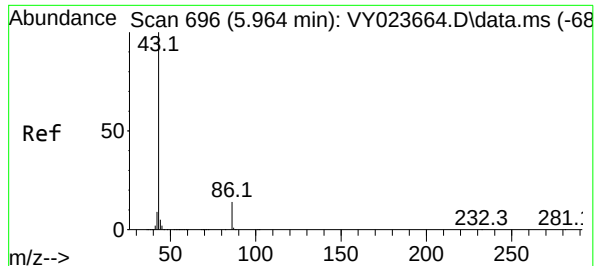
45 100

43 55.6 44.7 67.1

87 33.1 27.2 40.8

59 12.1 10.2 15.4





#23

Vinyl Acetate

Concen: 259.826 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 180074

Ion Ratio Lower Upper

43 100

86 13.1

10.9

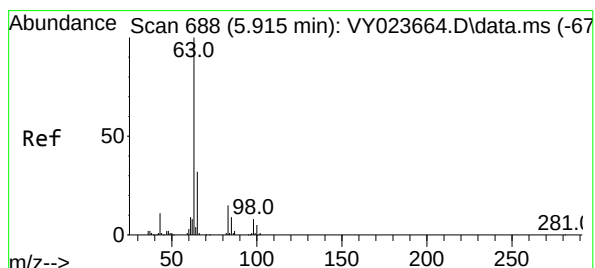
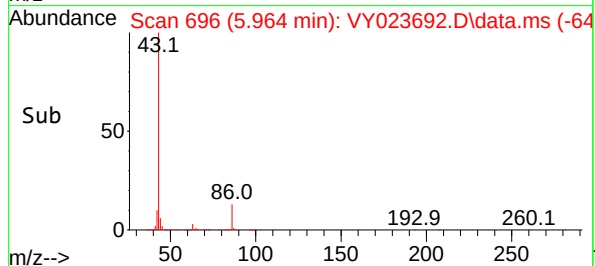
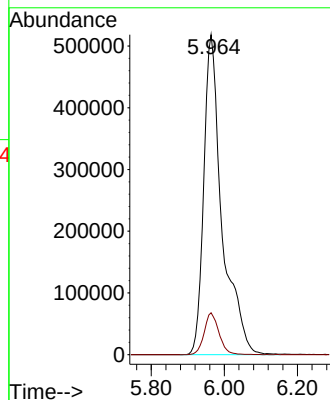
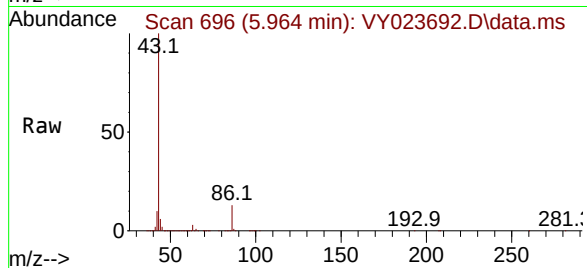
16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#24

1,1-Dichloroethane

Concen: 50.497 ug/l

RT: 5.921 min Scan# 689

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Tgt Ion: 63 Resp: 436899

Ion Ratio Lower Upper

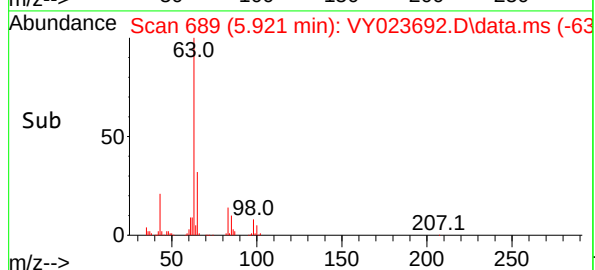
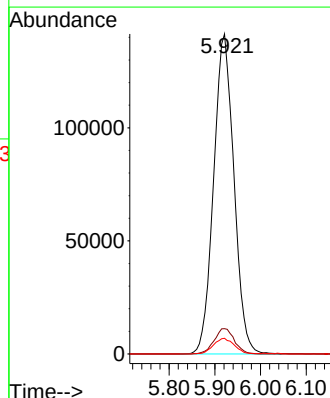
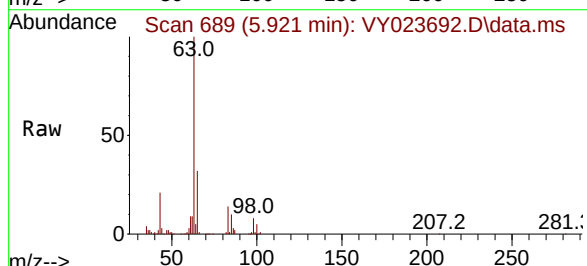
63 100

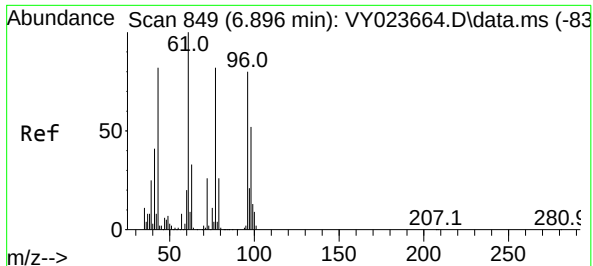
98 7.9

100 4.9

2.6

7.8





#25

2-Butanone

Concen: 244.465 ug/l

RT: 6.896 min Scan# 84

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 321194

Ion Ratio Lower Upper

43 100

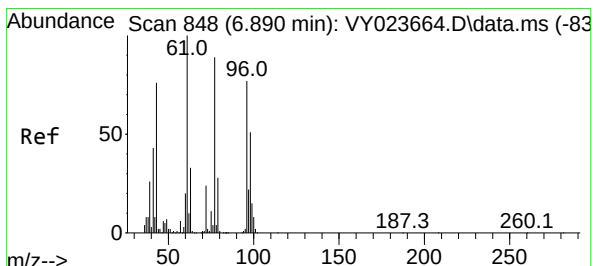
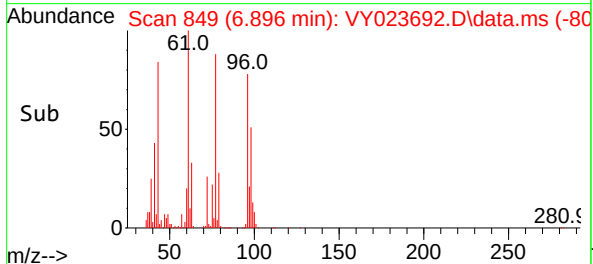
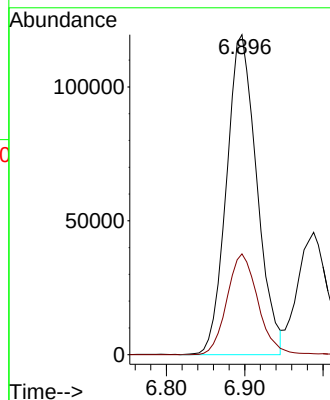
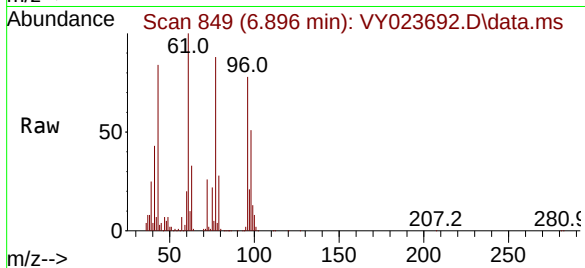
72 31.5 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#26

2,2-Dichloropropane

Concen: 51.381 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023692.D

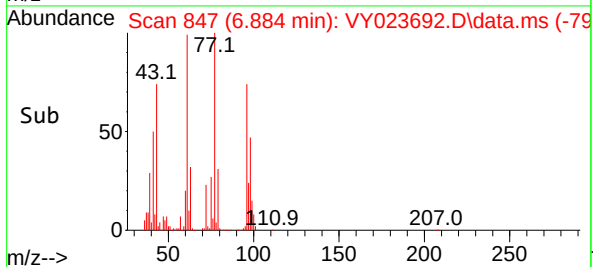
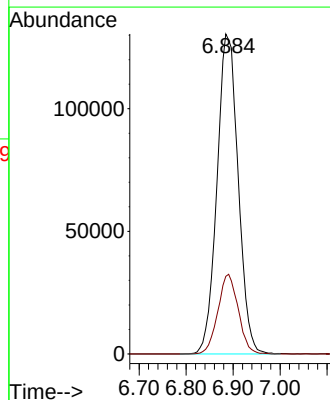
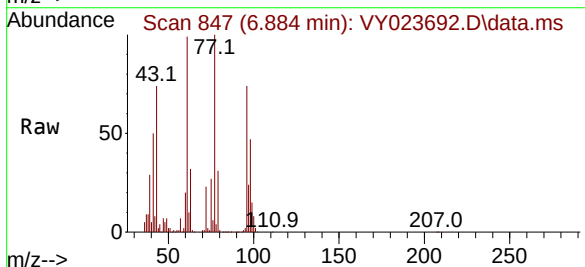
Acq: 06 Nov 2025 08:42

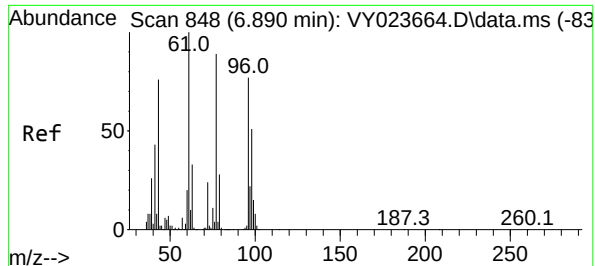
Tgt Ion: 77 Resp: 408917

Ion Ratio Lower Upper

77 100

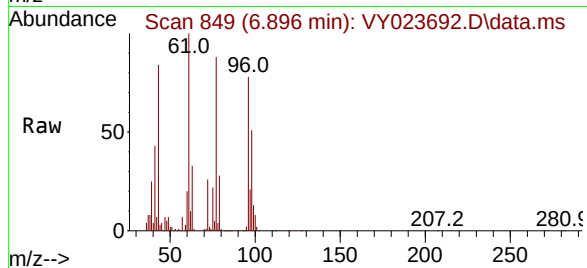
97 23.9 12.0 36.1





#27  
 cis-1,2-Dichloroethene  
 Concen: 50.307 ug/l  
 RT: 6.896 min Scan# 849  
 Delta R.T. 0.006 min  
 Lab File: VY023692.D  
 Acq: 06 Nov 2025 08:42

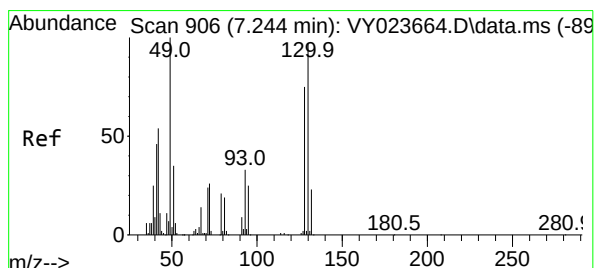
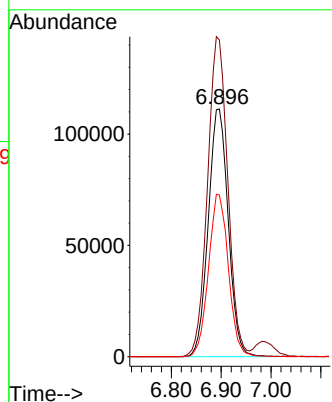
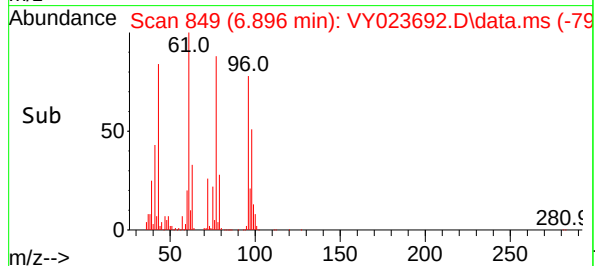
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050



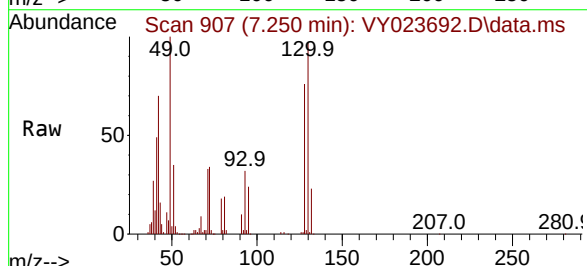
Tgt Ion: 96 Resp: 31020  
 Ion Ratio Lower Upper  
 96 100  
 61 130.5 0.0 255.0  
 98 65.3 0.0 129.8

Manual Integrations  
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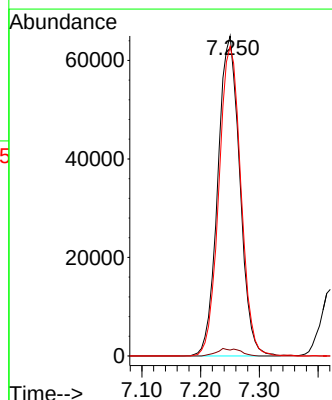
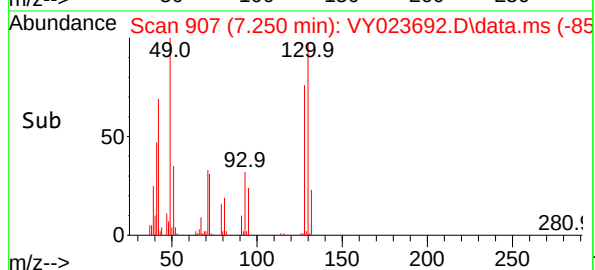
Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

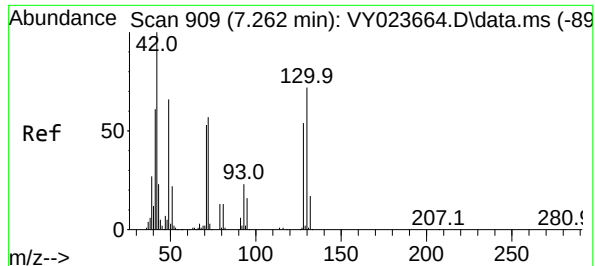


#28  
 Bromochloromethane  
 Concen: 50.995 ug/l  
 RT: 7.250 min Scan# 907  
 Delta R.T. 0.006 min  
 Lab File: VY023692.D  
 Acq: 06 Nov 2025 08:42



Tgt Ion: 49 Resp: 168937  
 Ion Ratio Lower Upper  
 49 100  
 129 2.4 0.0 5.0  
 130 96.6 80.1 120.1





#29

Tetrahydrofuran

Concen: 245.417 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 171724

Ion Ratio Lower Upper

42 100

72 51.5 43.4 65.2

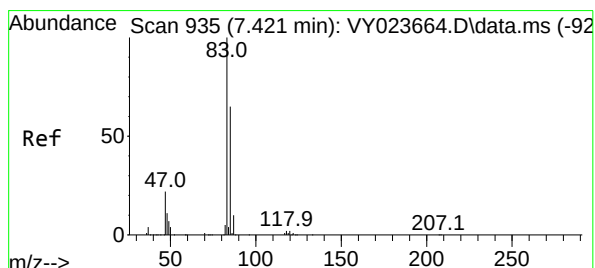
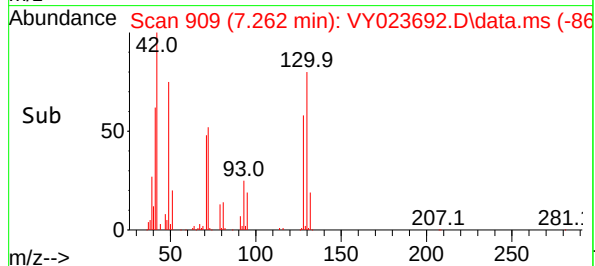
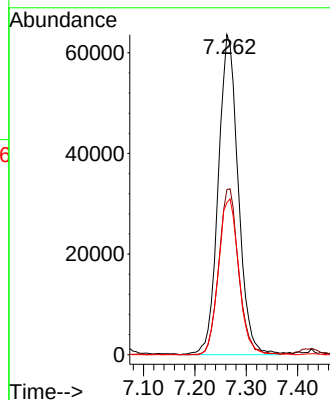
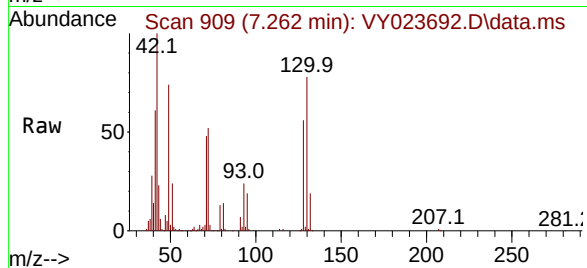
71 49.7 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#30

Chloroform

Concen: 50.771 ug/l

RT: 7.427 min Scan# 936

Delta R.T. 0.006 min

Lab File: VY023692.D

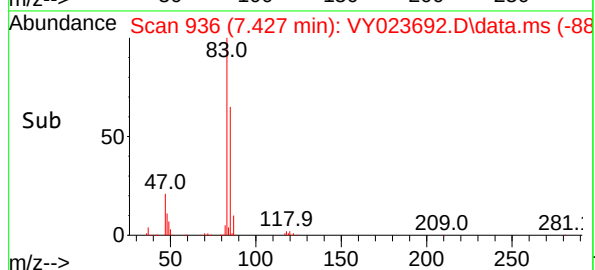
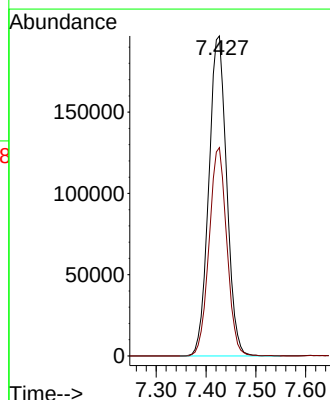
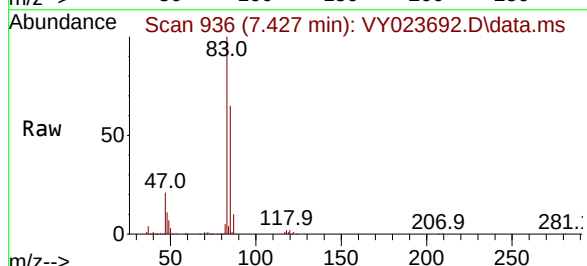
Acq: 06 Nov 2025 08:42

Tgt Ion: 83 Resp: 490108

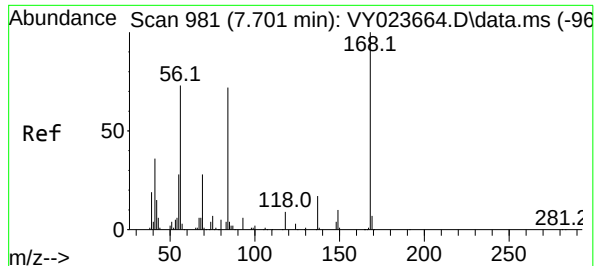
Ion Ratio Lower Upper

83 100

85 65.1 52.1 78.1







#31

Cyclohexane

Concen: 48.888 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 368358

Ion Ratio Lower Upper

56 100

69 35.4 30.5 45.7

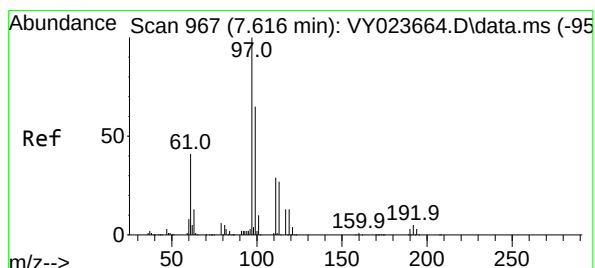
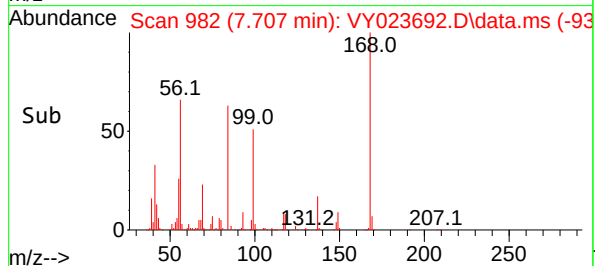
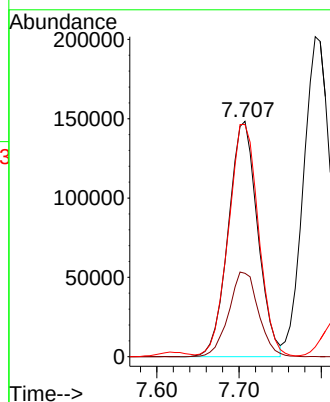
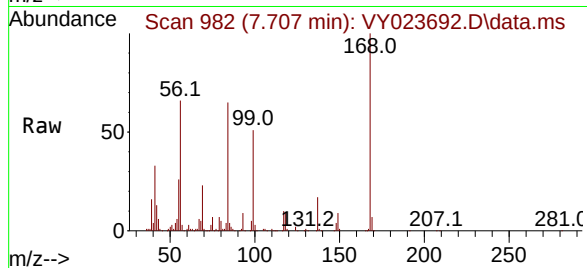
84 96.9 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#32

1,1,1-Trichloroethane

Concen: 50.080 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

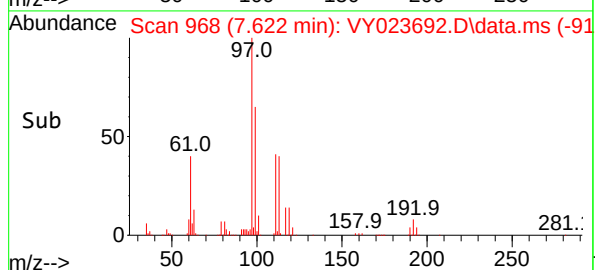
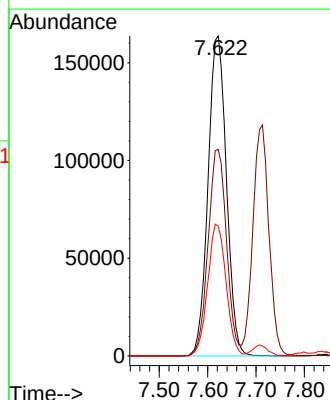
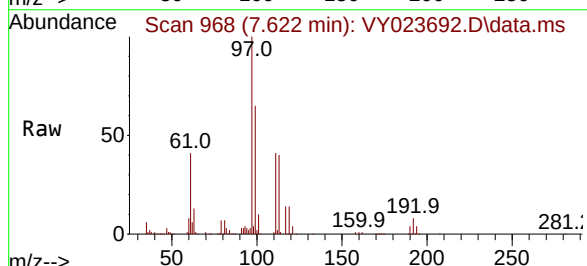
Tgt Ion: 97 Resp: 432084

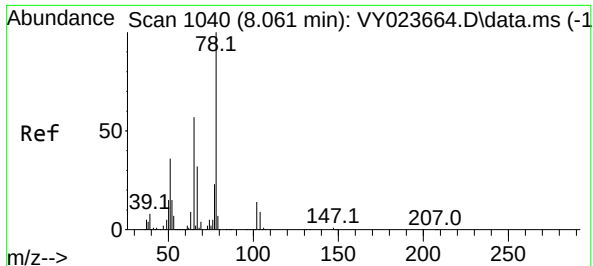
Ion Ratio Lower Upper

97 100

99 64.9 51.5 77.3

61 41.3 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 50.542 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 23106

Ion Ratio Lower Upper

65 100

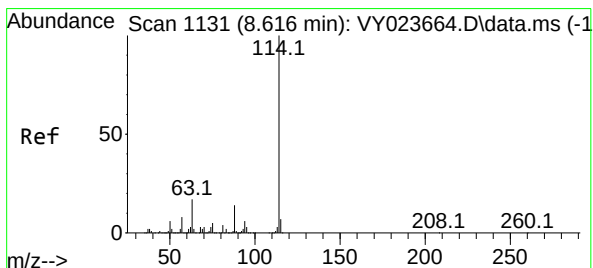
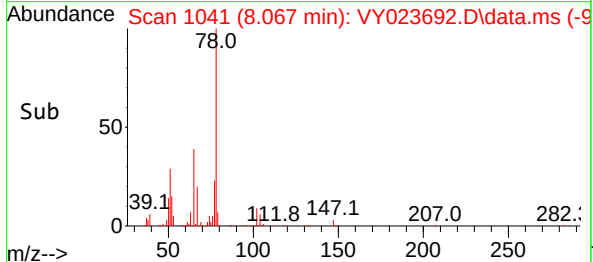
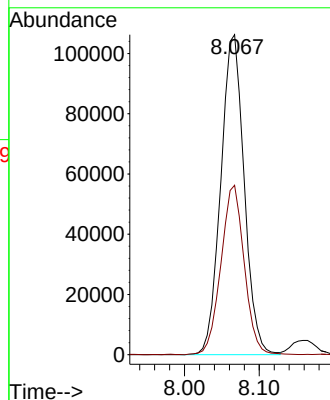
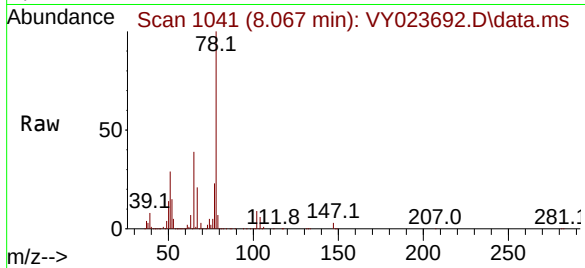
67 52.8 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

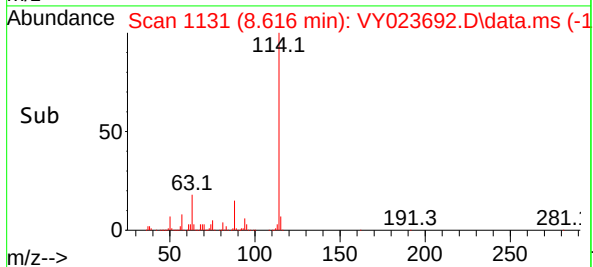
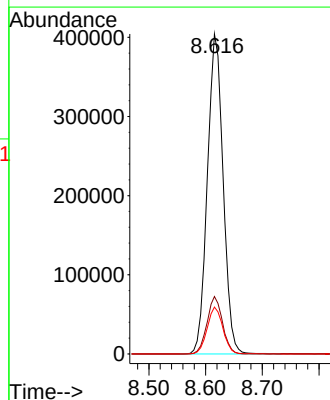
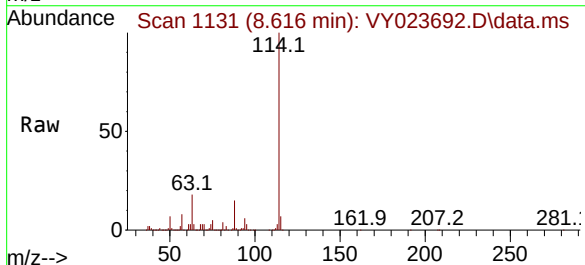
Tgt Ion:114 Resp: 779935

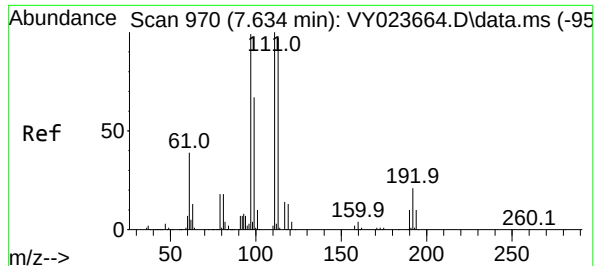
Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.8

88 14.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 52.110 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 25398

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.4

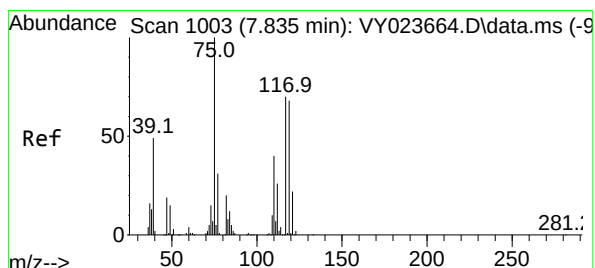
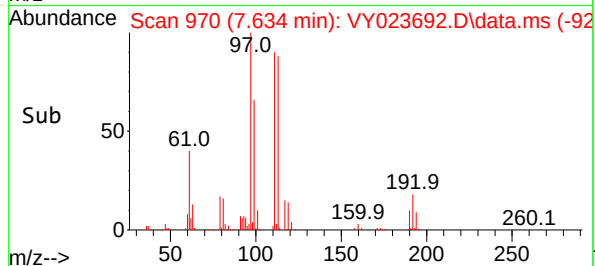
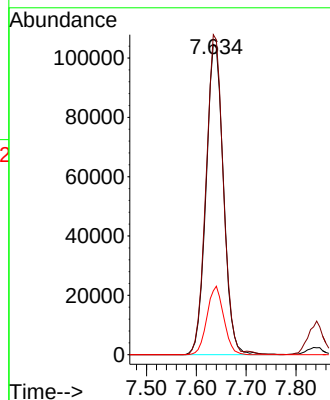
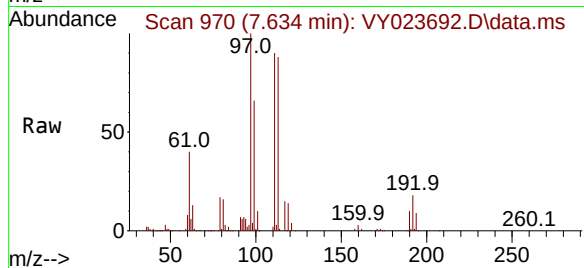
192 21.2 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#36

1,1-Dichloropropene

Concen: 52.056 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

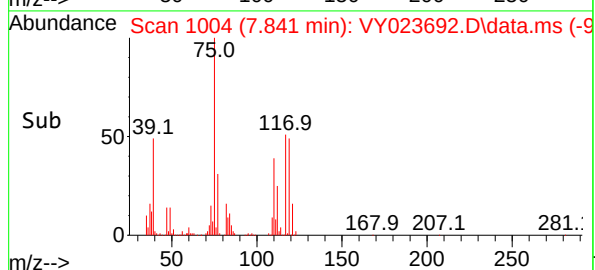
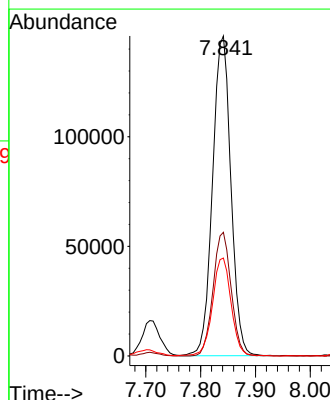
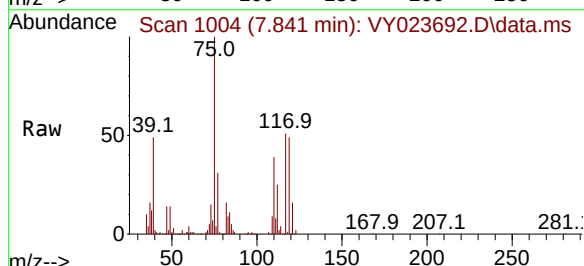
Tgt Ion: 75 Resp: 339044

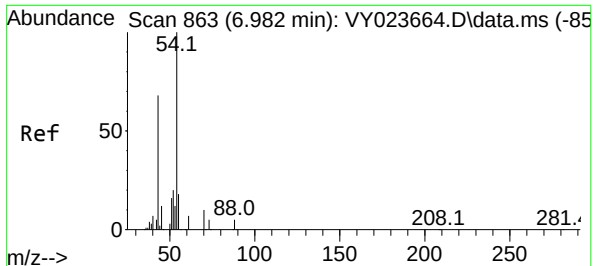
Ion Ratio Lower Upper

75 100

110 38.1 19.7 59.0

77 30.9 25.2 37.8





#37

Ethyl Acetate

Concen: 50.938 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023692.D

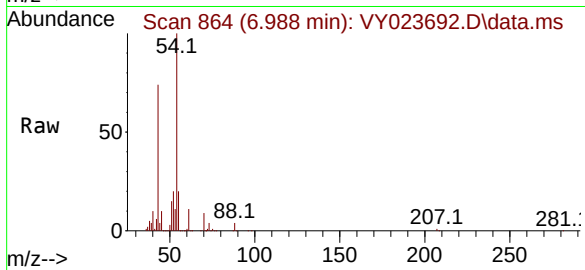
Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050



Tgt Ion: 43 Resp: 12843

Ion Ratio Lower Upper

43 100

61 14.2 12.4 18.6

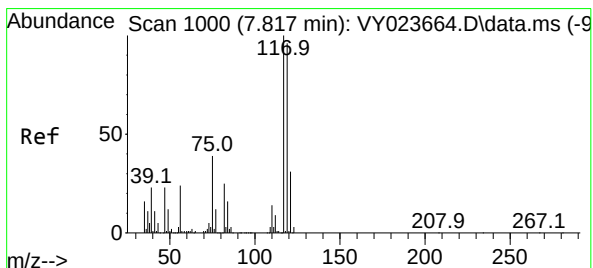
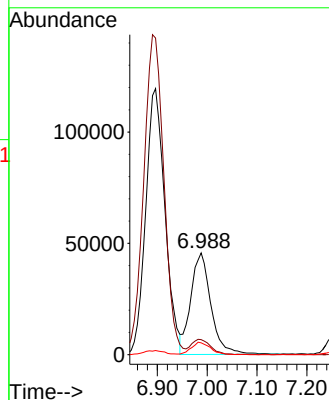
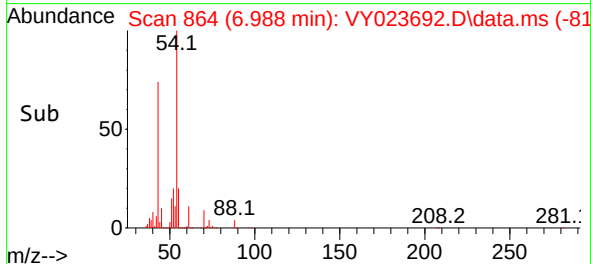
70 11.2 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#38

Carbon Tetrachloride

Concen: 51.680 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

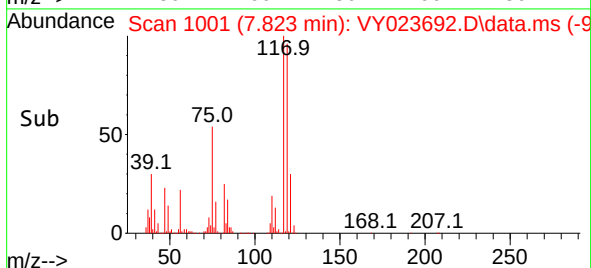
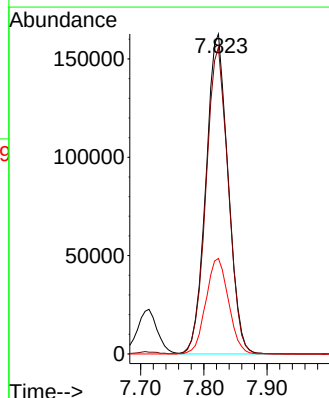
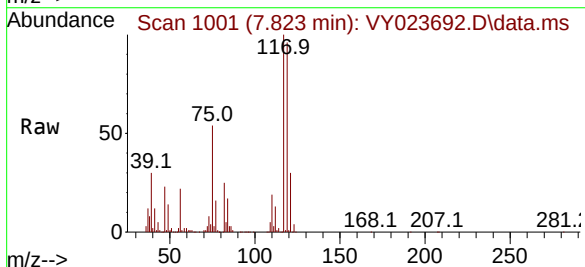
Tgt Ion:117 Resp: 396586

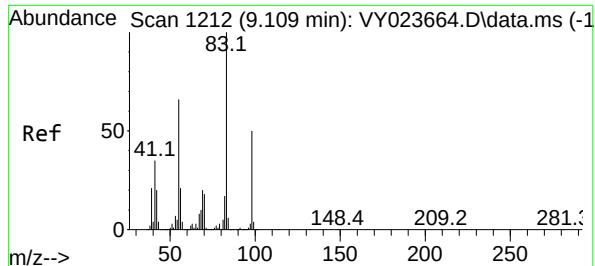
Ion Ratio Lower Upper

117 100

119 95.8 76.3 114.5

121 29.8 24.8 37.2





#39

Methylcyclohexane

Concen: 51.771 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 43083

Ion Ratio Lower Upper

83 100

55 69.3 52.6 78.8

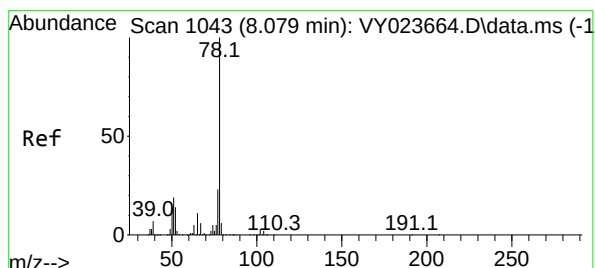
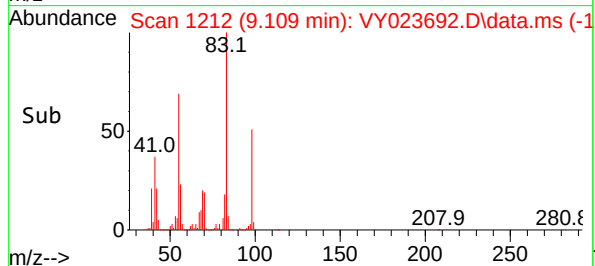
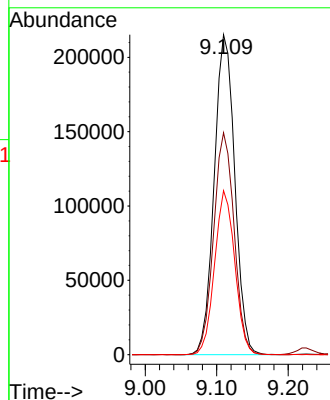
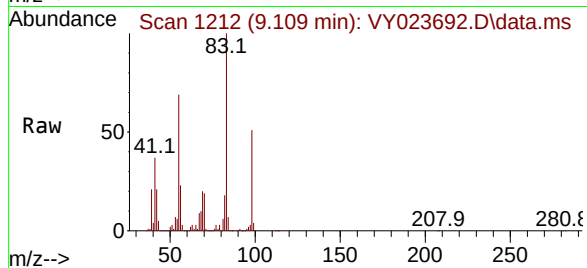
98 51.3 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#40

Benzene

Concen: 52.191 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. 0.006 min

Lab File: VY023692.D

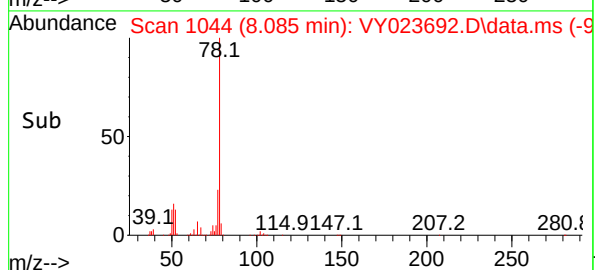
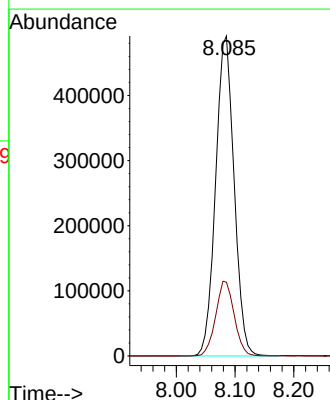
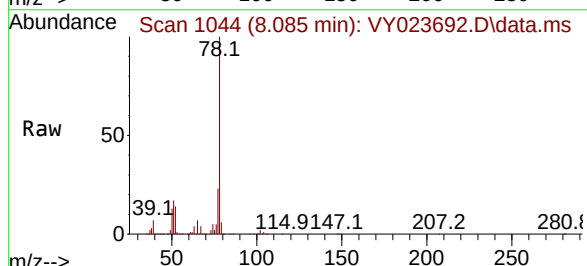
Acq: 06 Nov 2025 08:42

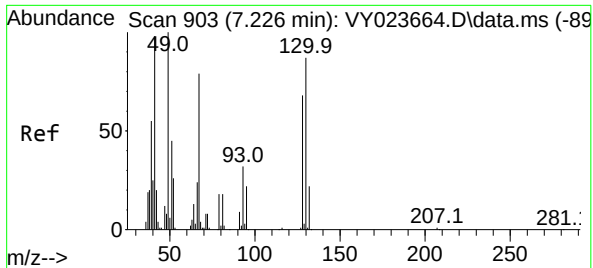
Tgt Ion: 78 Resp: 1071461

Ion Ratio Lower Upper

78 100

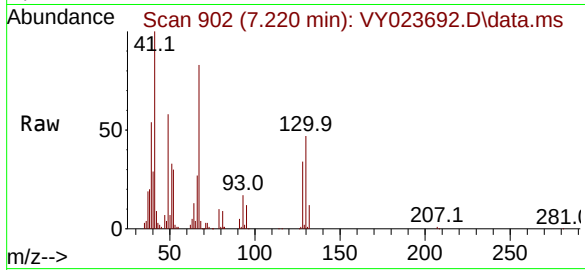
77 23.1 18.8 28.2





#41  
Methacrylonitrile  
Concen: 48.625 ug/l m  
RT: 7.220 min Scan# 903  
Delta R.T. -0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

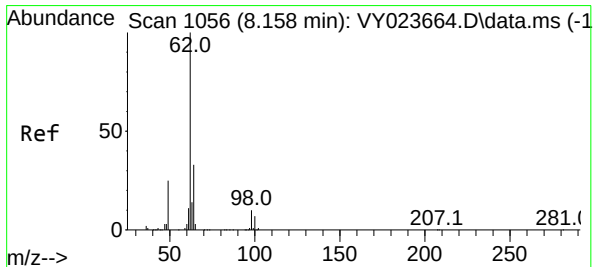
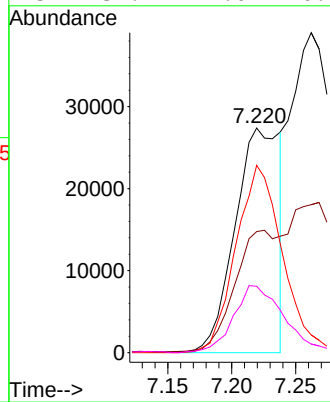
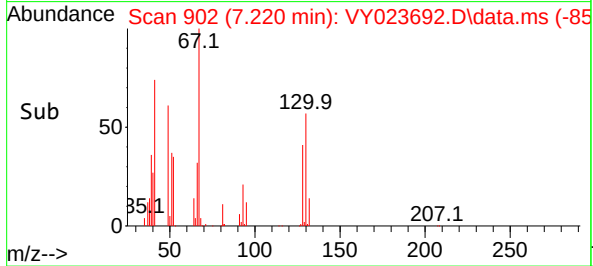
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



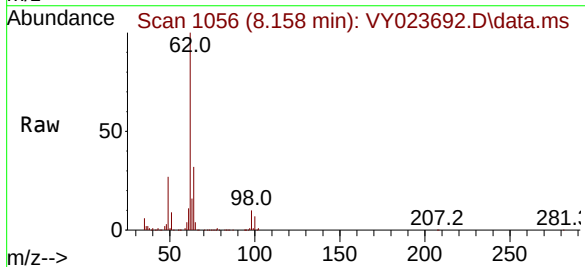
Tgt Ion: 41 Resp: 66920  
Ion Ratio Lower Upper  
41 100  
39 46.7 38.6 57.8  
67 87.9 71.3 106.9  
52 34.1 27.0 40.4

Manual Integrations  
APPROVED

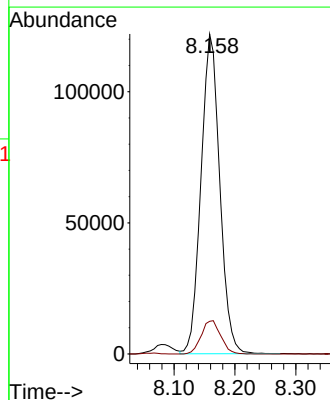
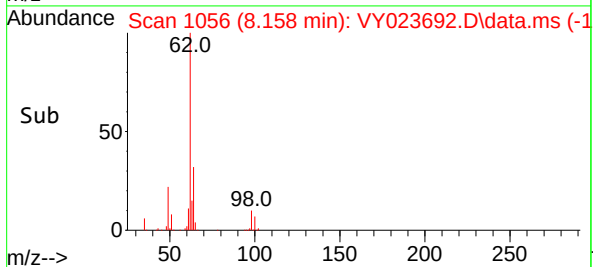
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

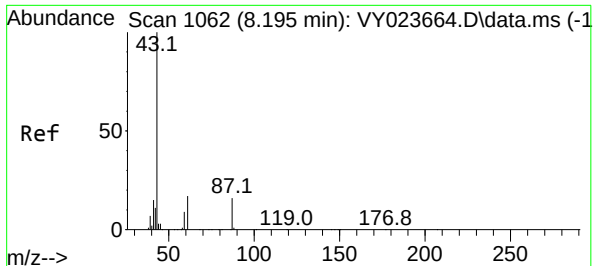


#42  
1,2-Dichloroethane  
Concen: 50.268 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



Tgt Ion: 62 Resp: 261084  
Ion Ratio Lower Upper  
62 100  
98 10.8 0.0 21.0





#43

Isopropyl Acetate

Concen: 48.431 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 229430

Ion Ratio Lower Upper

43 100

61 21.6 18.2 27.2

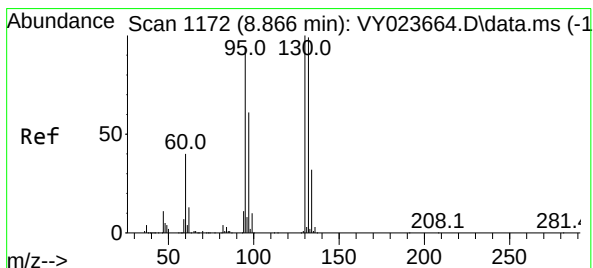
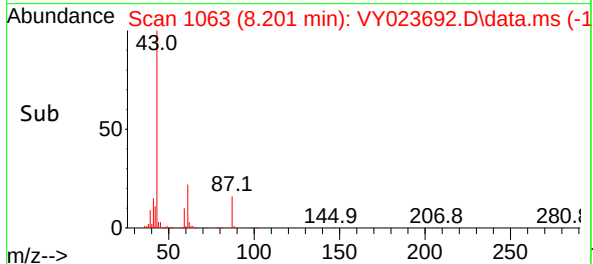
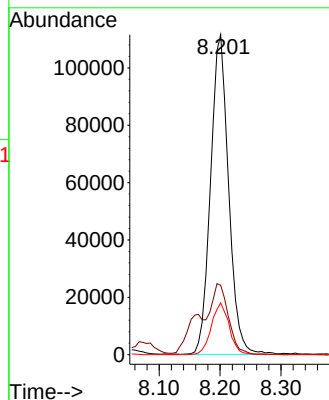
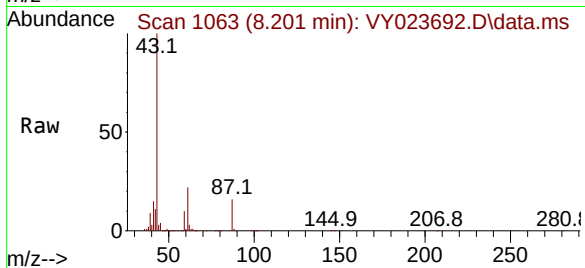
87 16.0 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#44

Trichloroethene

Concen: 50.084 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023692.D

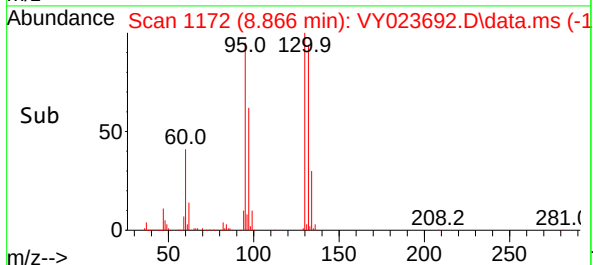
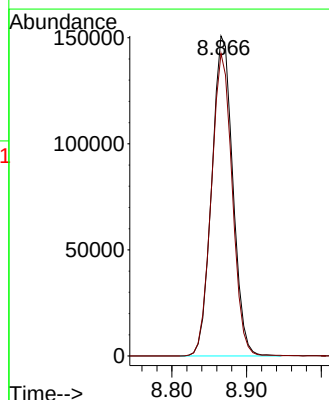
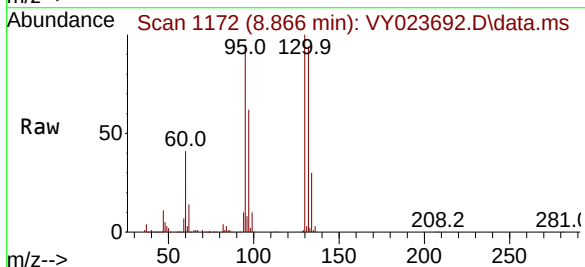
Acq: 06 Nov 2025 08:42

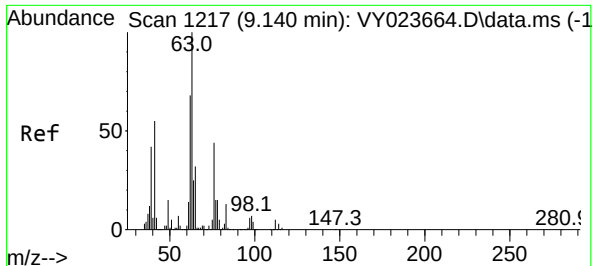
Tgt Ion:130 Resp: 295321

Ion Ratio Lower Upper

130 100

95 94.6 0.0 187.0





#45

1,2-Dichloropropane

Concen: 51.631 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 23393

Ion Ratio Lower Upper

63 100

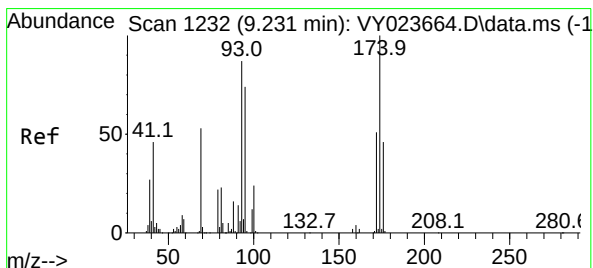
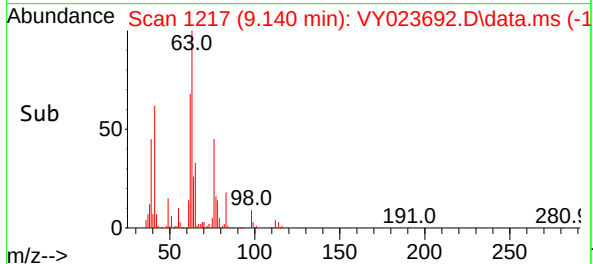
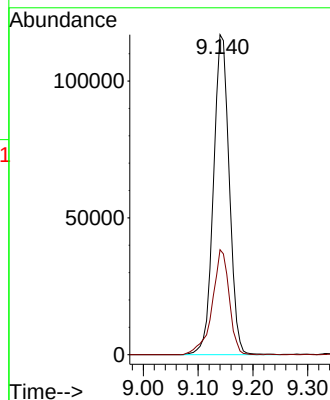
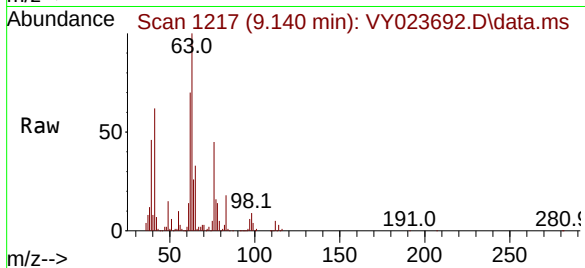
65 32.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#46

Dibromomethane

Concen: 50.465 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

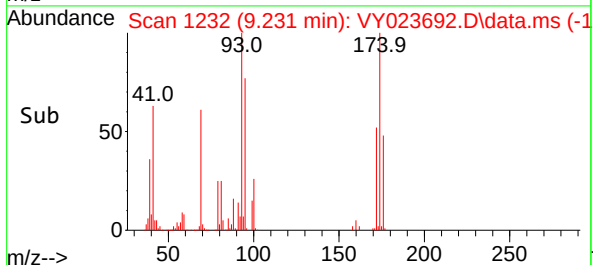
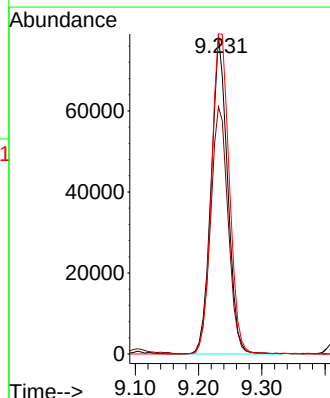
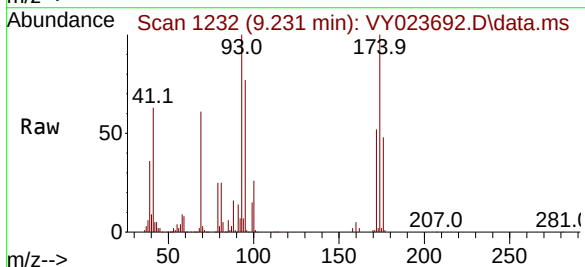
Tgt Ion: 93 Resp: 141674

Ion Ratio Lower Upper

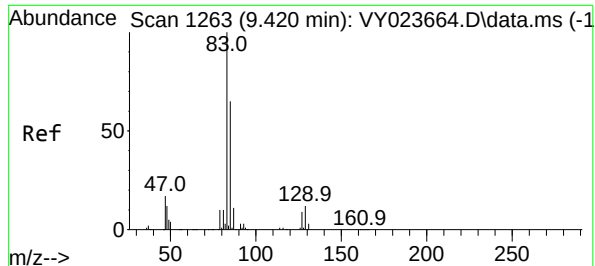
93 100

95 82.3 67.4 101.2

174 108.5 89.4 134.0







#47

Bromodichloromethane

Concen: 51.829 ug/l

RT: 9.426 min Scan# 1263

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 36684

Ion Ratio Lower Upper

83 100

85 64.2 52.1 78.1

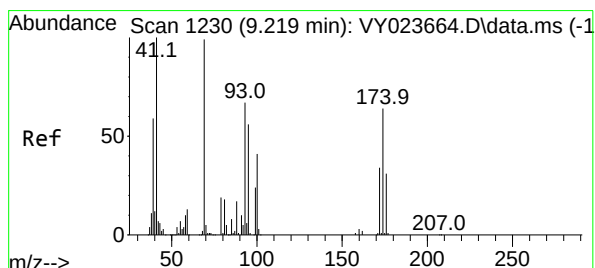
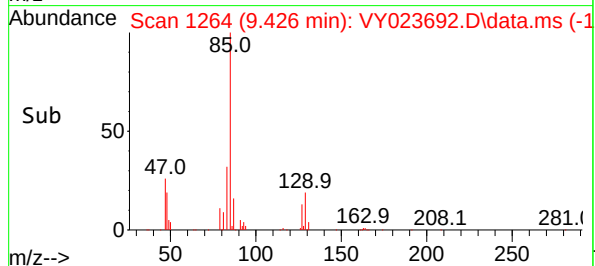
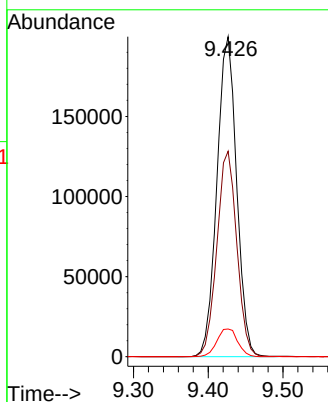
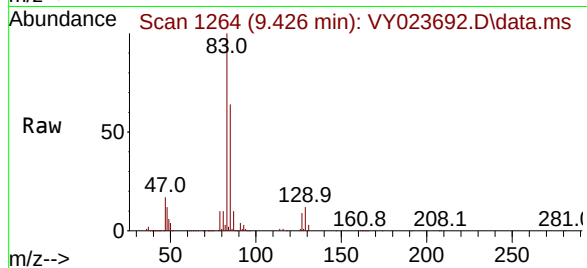
127 8.6 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#48

Methyl methacrylate

Concen: 50.398 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

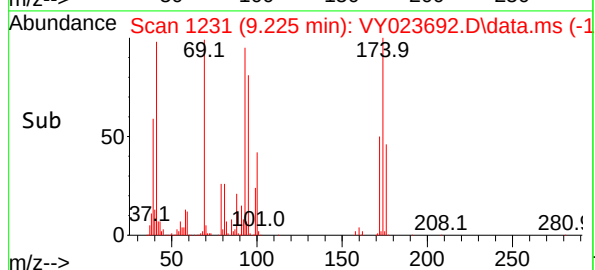
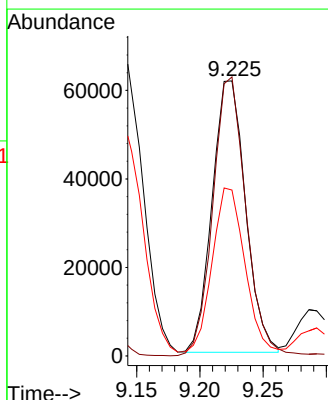
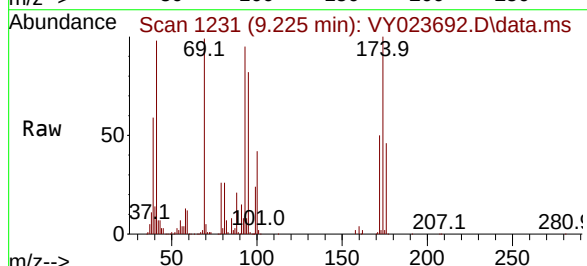
Tgt Ion: 41 Resp: 112802

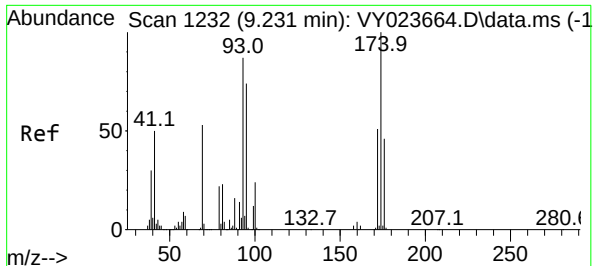
Ion Ratio Lower Upper

41 100

69 101.8 80.2 120.2

39 58.7 47.4 71.0





#49

1,4-Dioxane

Concen: 1017.395 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. -0.006 min

Lab File: VY023692.D

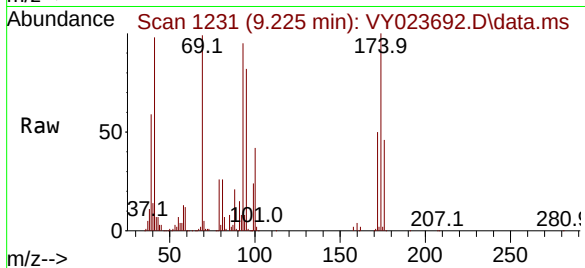
Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050



Tgt Ion: 88 Resp: 29230

Ion Ratio Lower Upper

88 100

43 28.6 22.0 33.0

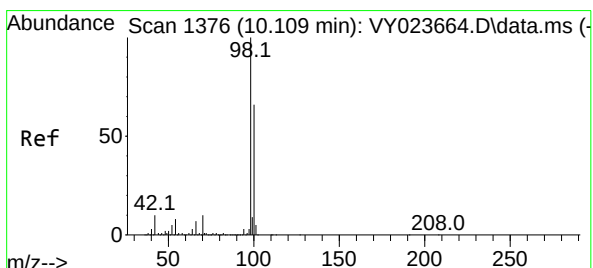
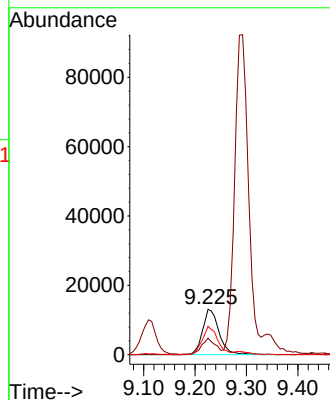
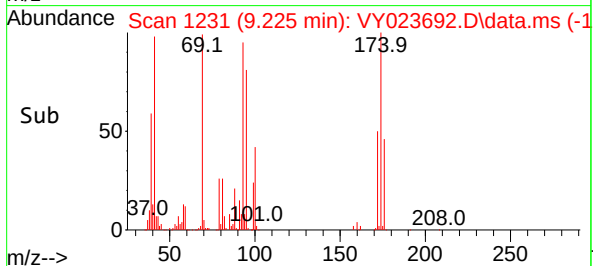
58 58.5 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#50

Toluene-d8

Concen: 53.849 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023692.D

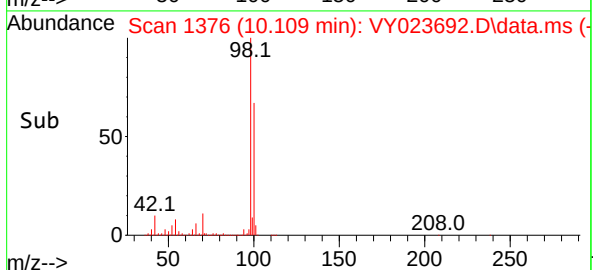
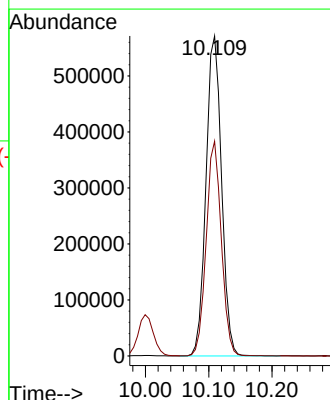
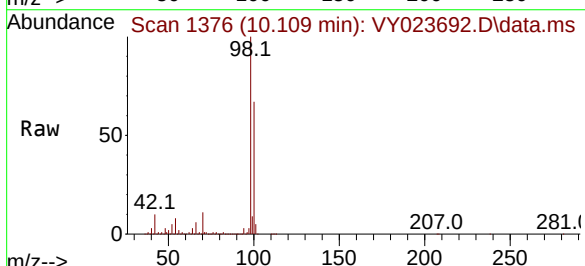
Acq: 06 Nov 2025 08:42

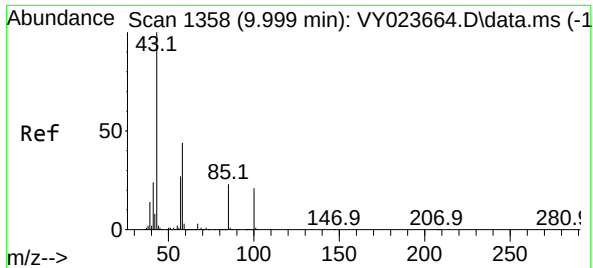
Tgt Ion: 98 Resp: 977701

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1





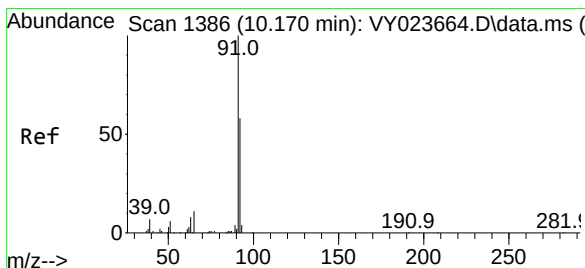
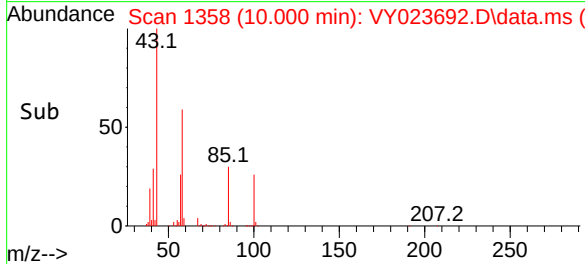
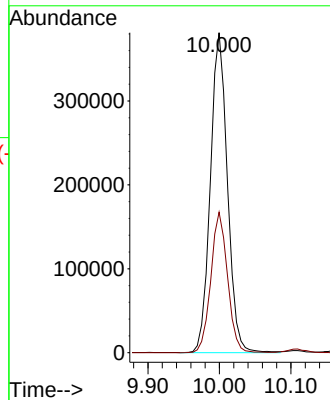
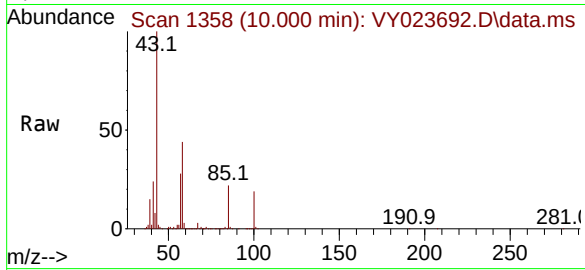
#51  
4-Methyl-2-Pentanone  
Concen: 250.399 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 43 Resp: 63084  
Ion Ratio Lower Upper  
43 100  
58 43.0 34.8 52.2

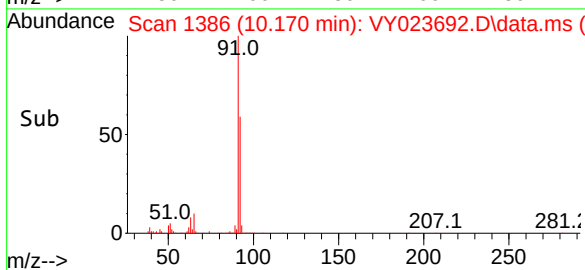
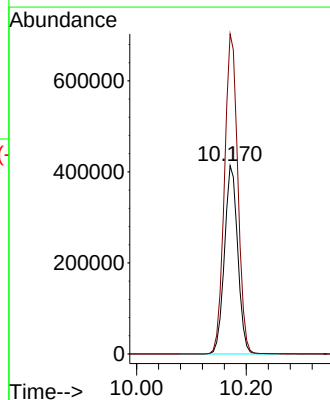
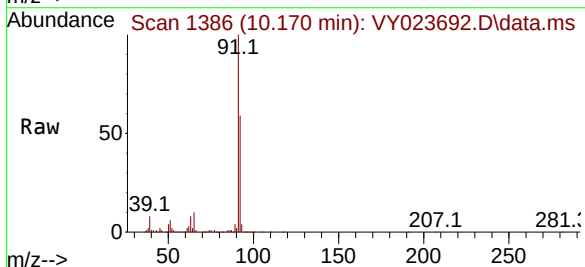
Manual Integrations  
APPROVED

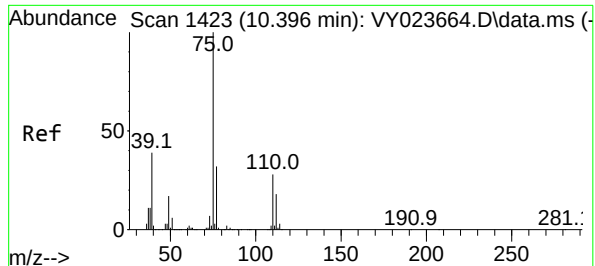
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#52  
Toluene  
Concen: 53.262 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion: 92 Resp: 698091  
Ion Ratio Lower Upper  
92 100  
91 171.1 137.8 206.8





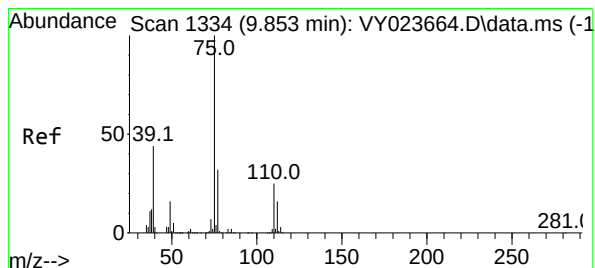
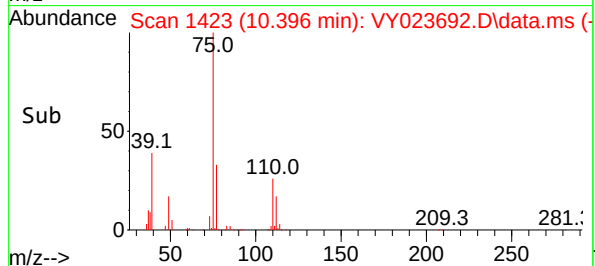
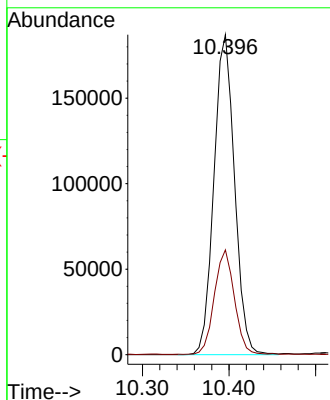
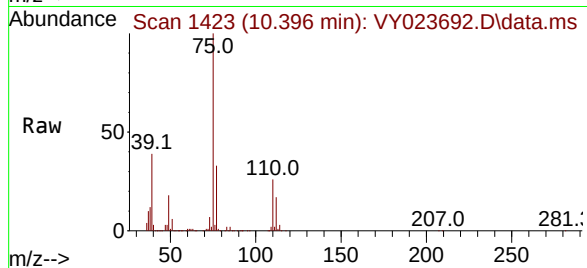
#53  
t-1,3-Dichloropropene  
Concen: 51.590 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Tgt Ion: 75 Resp: 308969  
Ion Ratio Lower Upper  
75 100  
77 32.6 25.6 38.4

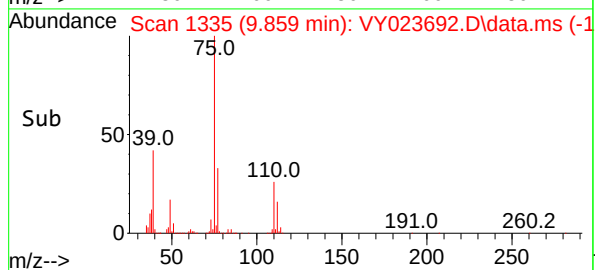
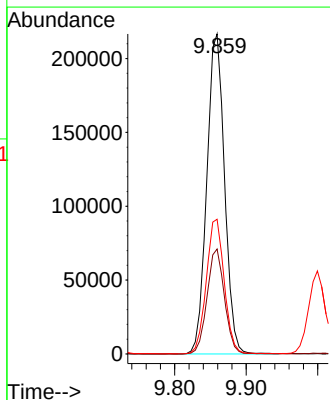
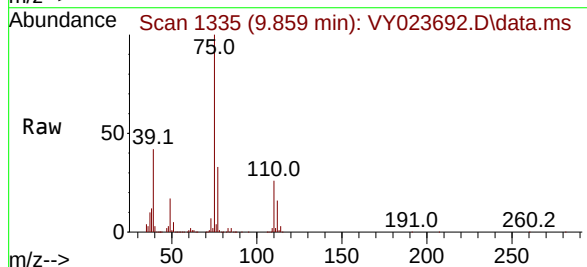
Manual Integrations  
APPROVED

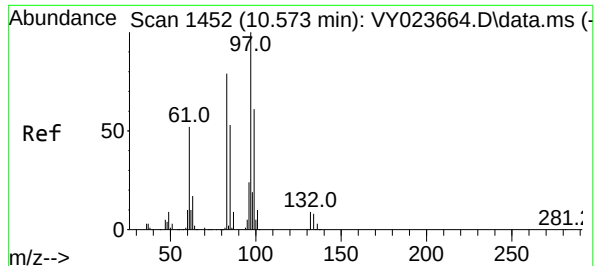
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#54  
cis-1,3-Dichloropropene  
Concen: 52.038 ug/l  
RT: 9.859 min Scan# 1335  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

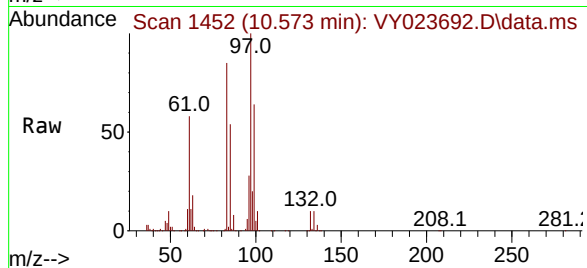
Tgt Ion: 75 Resp: 373395  
Ion Ratio Lower Upper  
75 100  
77 32.8 25.7 38.5  
39 42.1 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 50.815 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

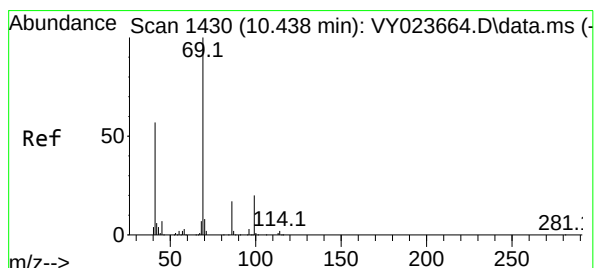
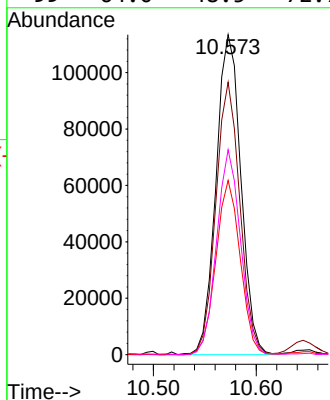
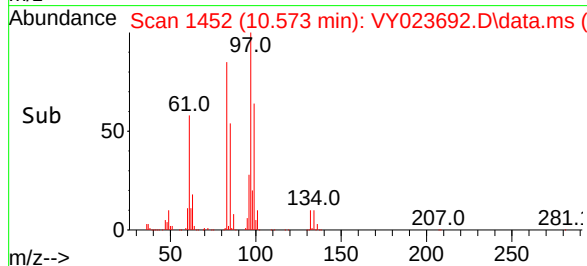
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 97 Resp: 190645  
Ion Ratio Lower Upper  
97 100  
83 85.2 63.3 94.9  
85 54.5 42.4 63.6  
99 64.0 48.5 72.7

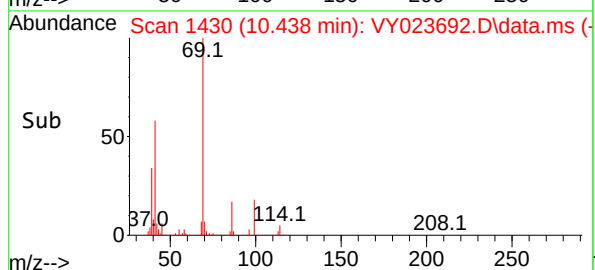
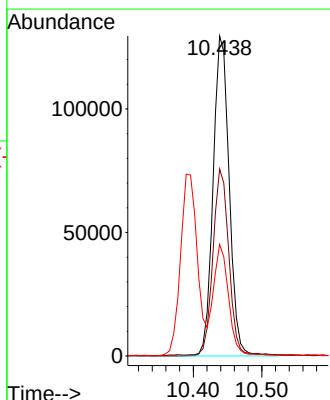
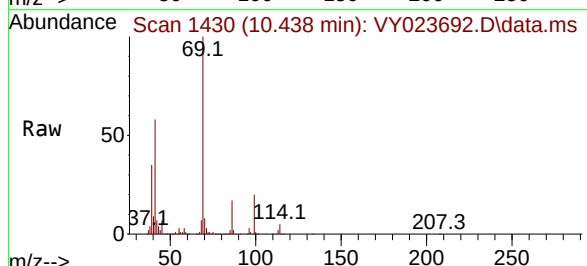
Manual Integrations  
APPROVED

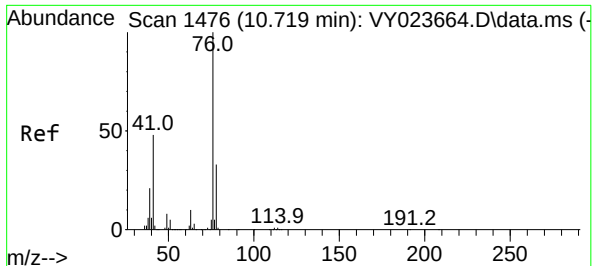
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#56  
Ethyl methacrylate  
Concen: 50.939 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion: 69 Resp: 210565  
Ion Ratio Lower Upper  
69 100  
41 56.9 45.0 67.4  
39 32.1 25.1 37.7





#57

1,3-Dichloropropane

Concen: 51.160 ug/l

RT: 10.719 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 304449

Ion Ratio Lower Upper

76 100

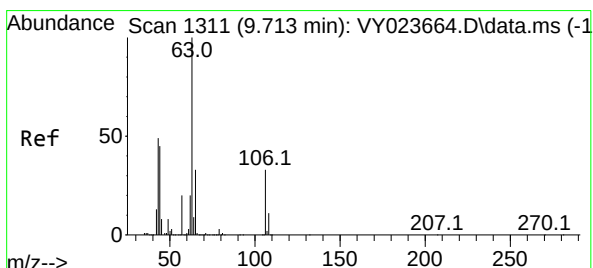
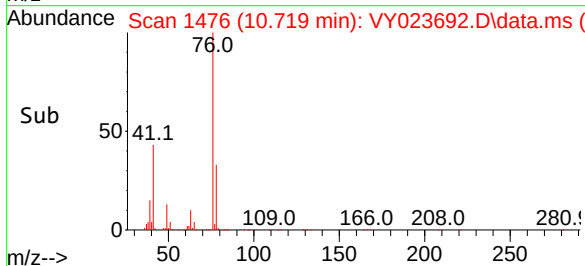
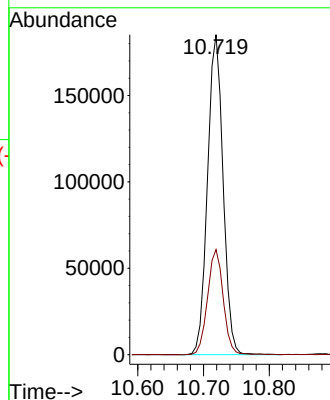
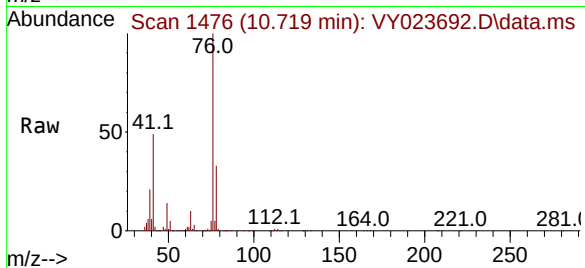
78 33.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#58

2-Chloroethyl Vinyl ether

Concen: 258.588 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VY023692.D

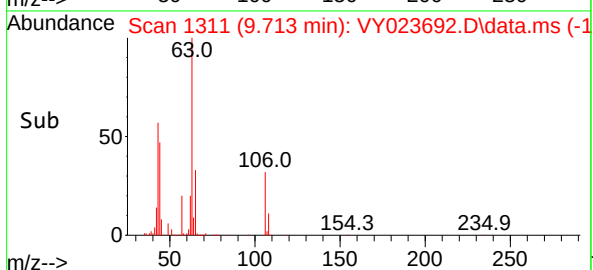
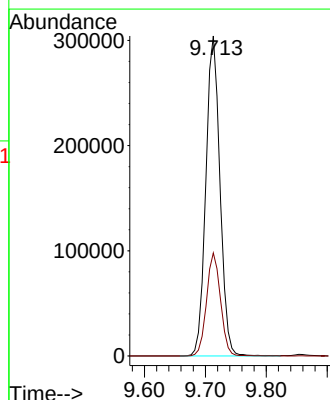
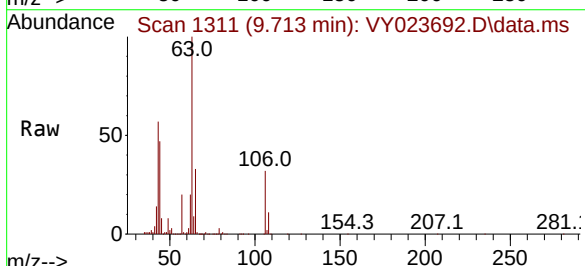
Acq: 06 Nov 2025 08:42

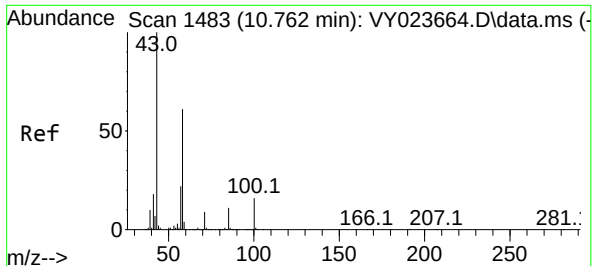
Tgt Ion: 63 Resp: 490497

Ion Ratio Lower Upper

63 100

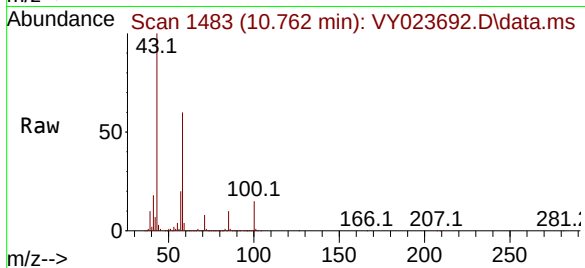
106 31.8 26.2 39.2





#59  
2-Hexanone  
Concen: 255.473 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

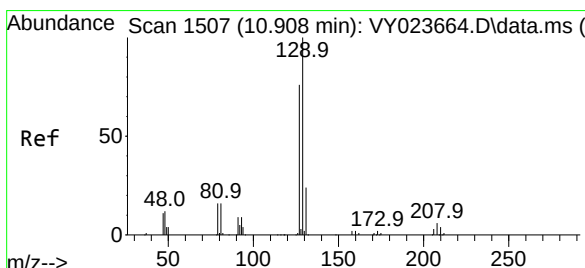
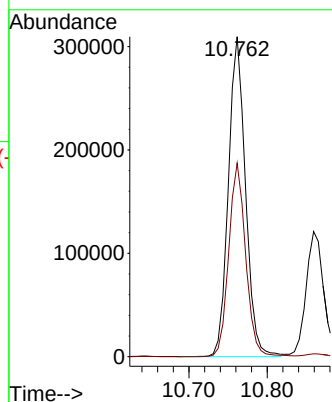
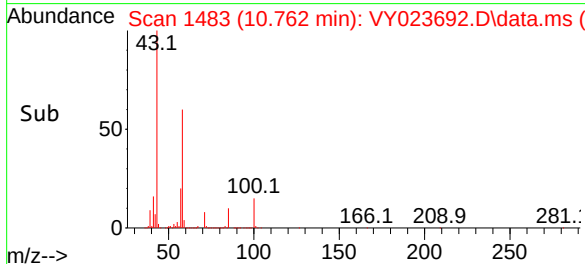
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 43 Resp: 469572  
Ion Ratio Lower Upper  
43 100  
58 60.0 30.2 90.6

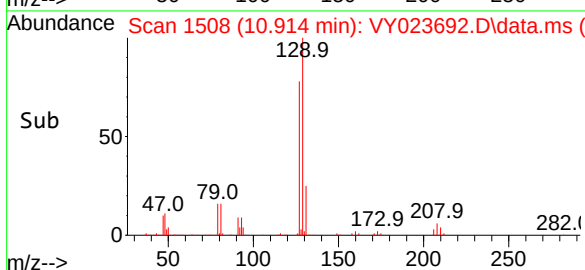
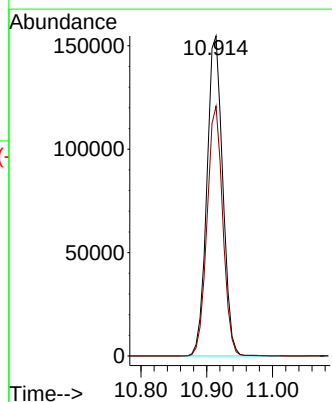
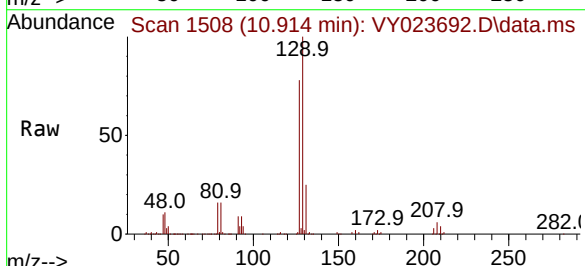
Manual Integrations  
APPROVED

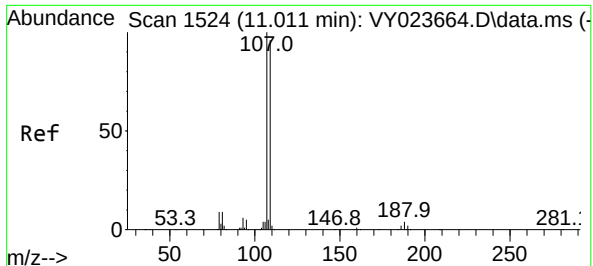
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#60  
Dibromochloromethane  
Concen: 50.236 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

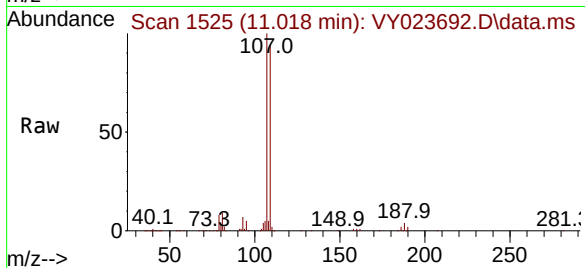
Tgt Ion:129 Resp: 258963  
Ion Ratio Lower Upper  
129 100  
127 77.4 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 50.132 ug/l  
RT: 11.018 min Scan# 1524  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

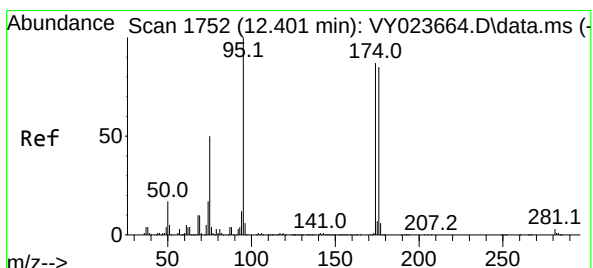
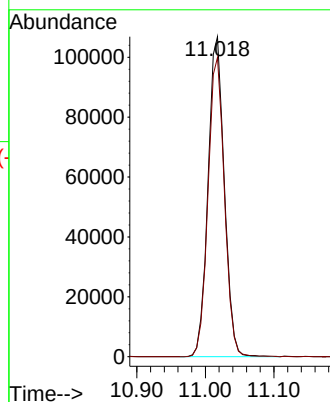
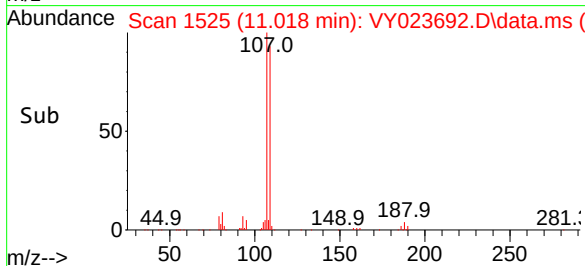
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



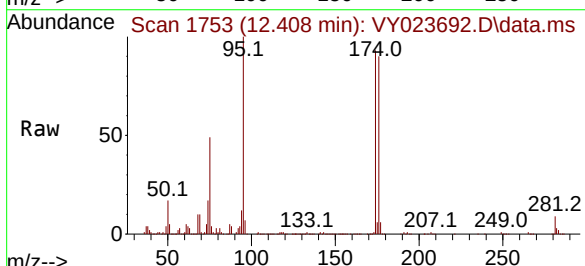
Tgt Ion:107 Resp: 176512  
Ion Ratio Lower Upper  
107 100  
109 94.2 76.2 114.4

Manual Integrations  
APPROVED

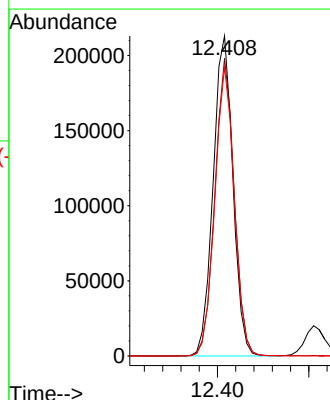
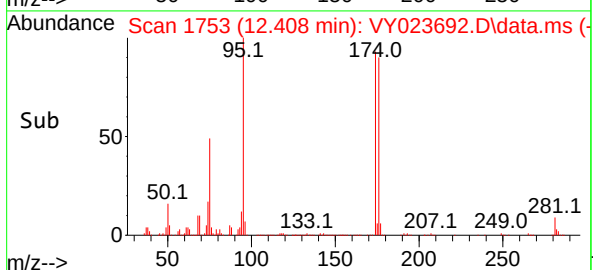
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



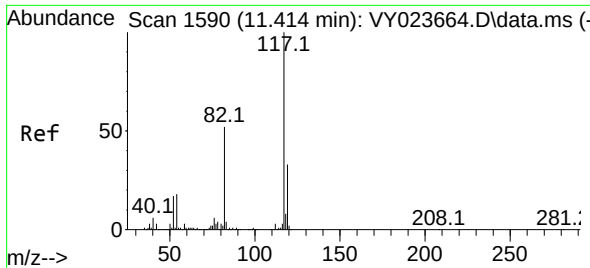
#62  
4-Bromofluorobenzene  
Concen: 54.429 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



Tgt Ion: 95 Resp: 319587  
Ion Ratio Lower Upper  
95 100  
174 91.3 0.0 184.8  
176 88.8 0.0 181.6

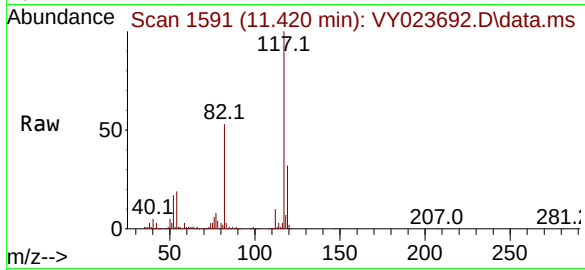






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

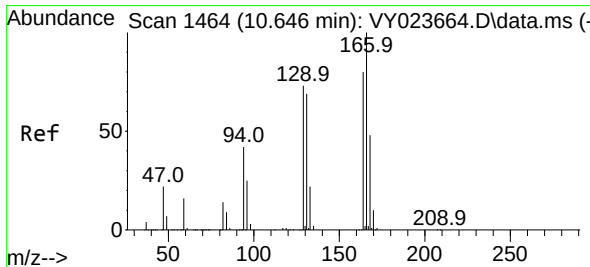
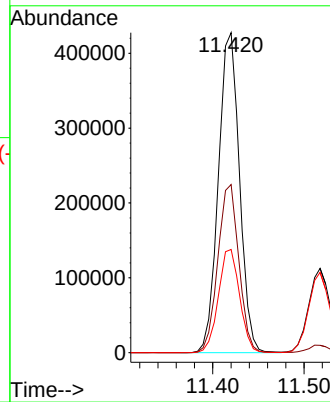
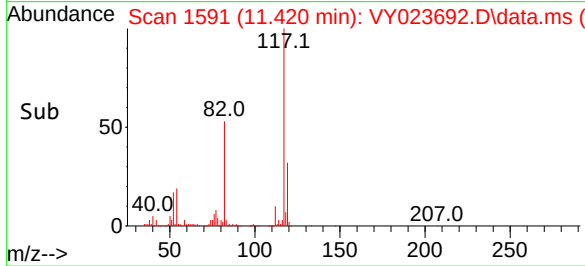
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



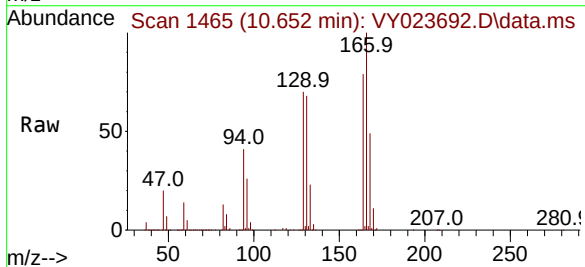
Tgt Ion:117 Resp: 686552  
Ion Ratio Lower Upper  
117 100  
82 52.5 41.2 61.8  
119 32.3 26.2 39.2

Manual Integrations  
APPROVED

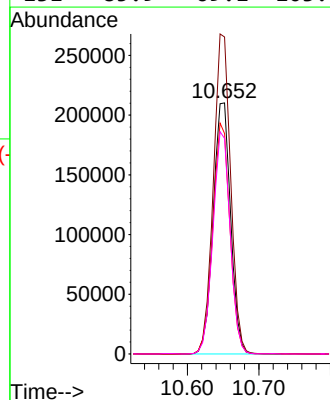
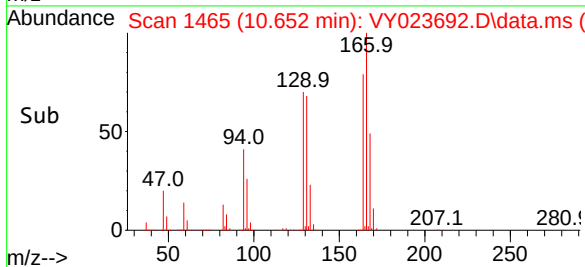
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

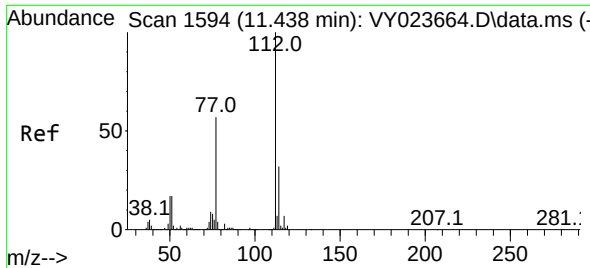


#64  
Tetrachloroethene  
Concen: 49.883 ug/l  
RT: 10.652 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



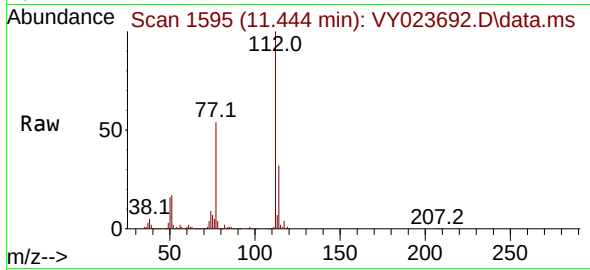
Tgt Ion:164 Resp: 356458  
Ion Ratio Lower Upper  
164 100  
166 126.3 99.5 149.3  
129 87.9 72.3 108.5  
131 85.9 69.1 103.7





#65  
Chlorobenzene  
Concen: 50.915 ug/l  
RT: 11.444 min Scan# 1595  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

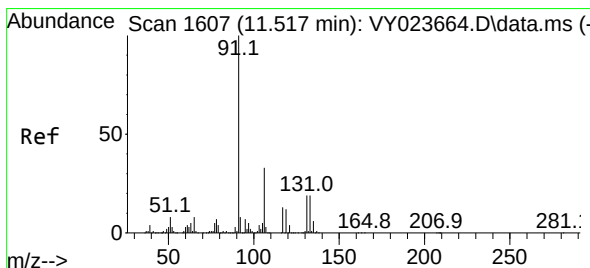
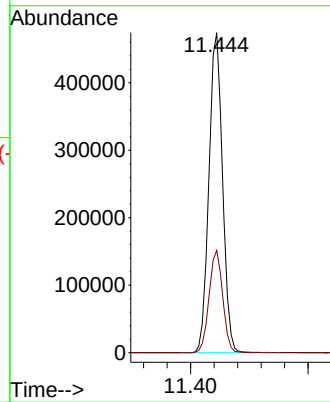
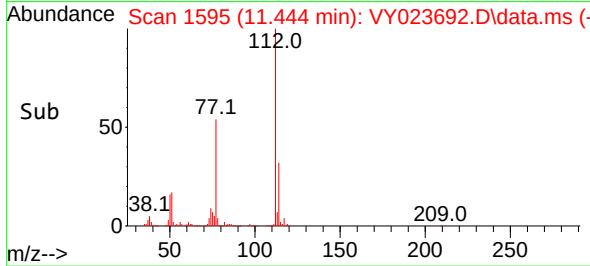
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion:112 Resp: 76098  
Ion Ratio Lower Upper  
112 100  
114 32.0 25.8 38.6

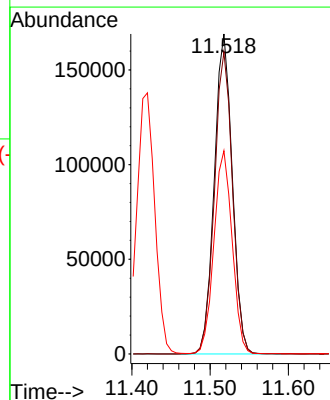
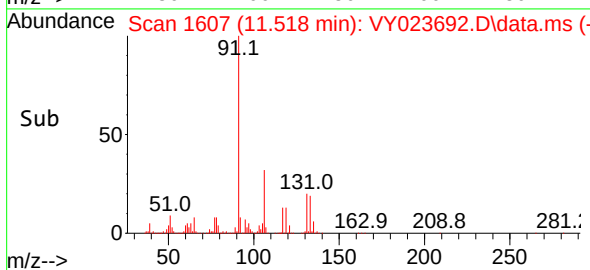
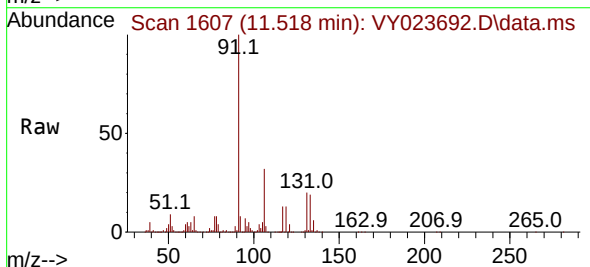
Manual Integrations  
**APPROVED**

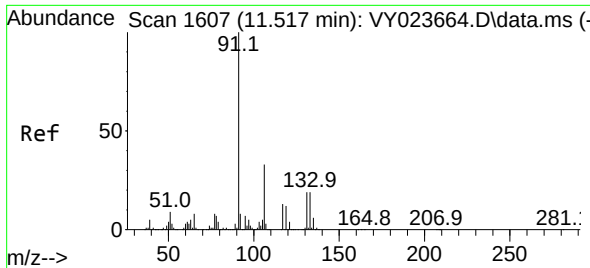
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 51.027 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

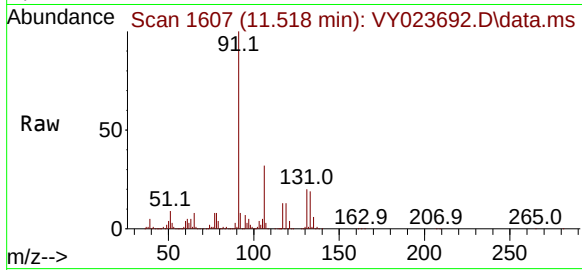
Tgt Ion:131 Resp: 269685  
Ion Ratio Lower Upper  
131 100  
133 94.8 47.3 141.8  
119 64.2 32.5 97.4





#67  
Ethyl Benzene  
Concen: 53.799 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

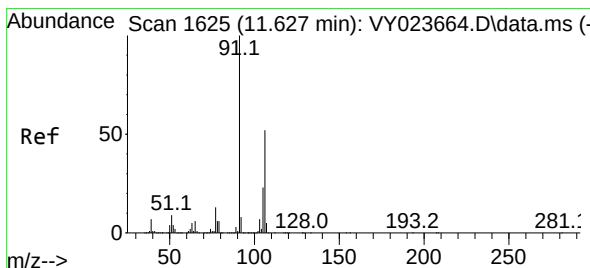
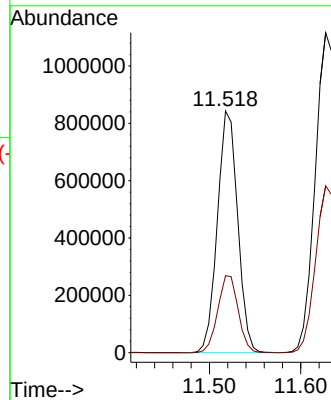
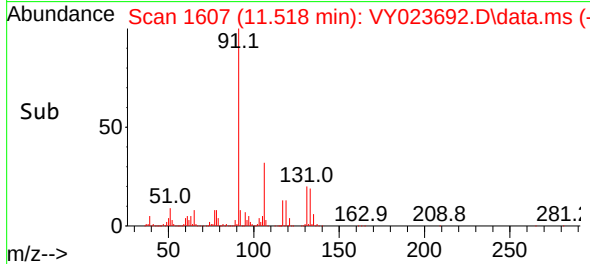
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



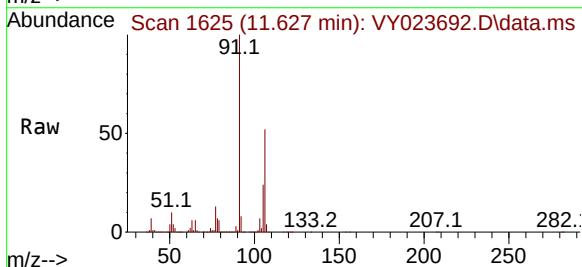
Tgt Ion: 91 Resp: 130140  
Ion Ratio Lower Upper  
91 100  
106 31.9 26.6 40.0

Manual Integrations  
APPROVED

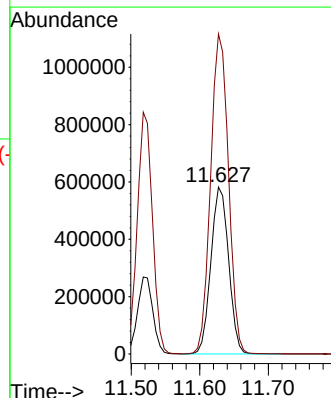
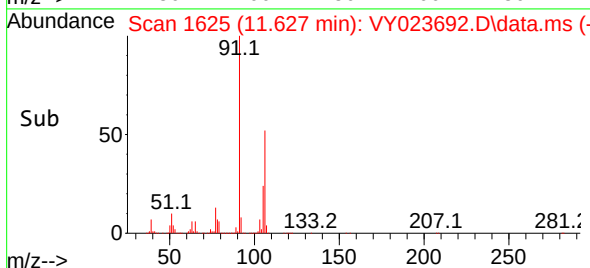
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

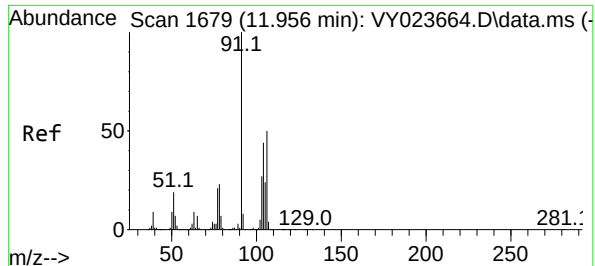


#68  
m/p-Xylenes  
Concen: 108.286 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



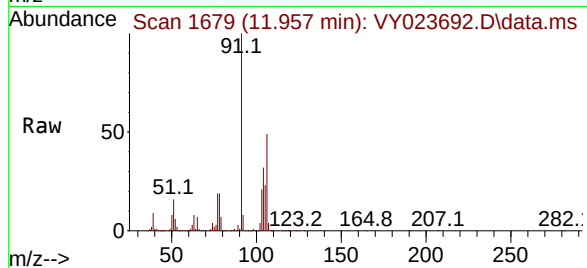
Tgt Ion:106 Resp: 1046555  
Ion Ratio Lower Upper  
106 100  
91 193.6 154.3 231.5





#69  
o-Xylene  
Concen: 53.067 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

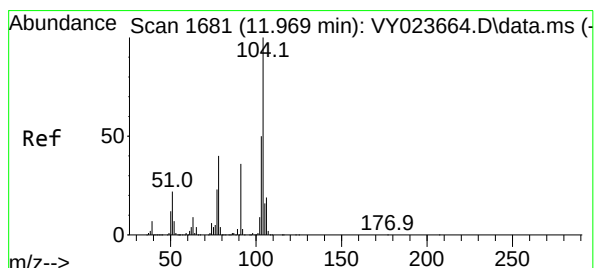
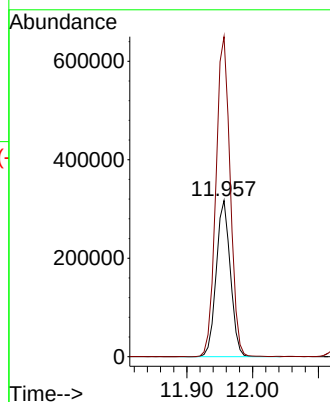
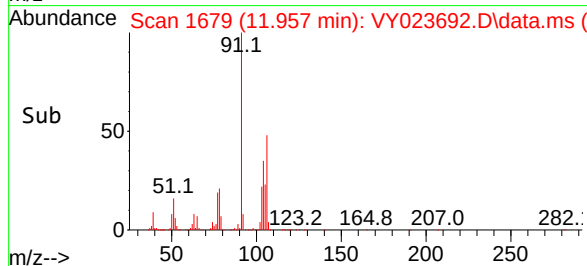
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



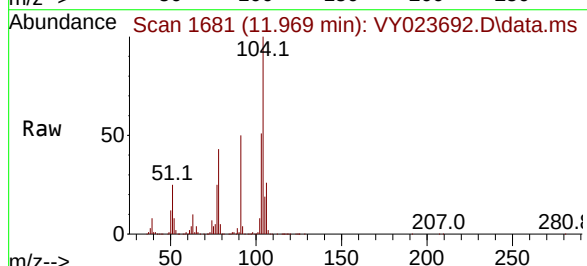
Tgt Ion:106 Resp: 474104  
Ion Ratio Lower Upper  
106 100  
91 207.0 101.6 304.6

Manual Integrations  
APPROVED

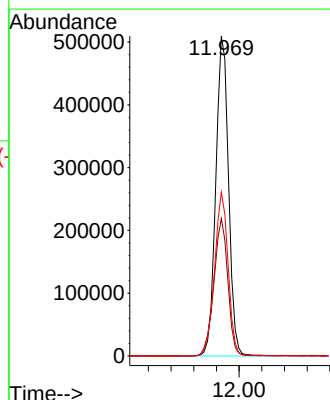
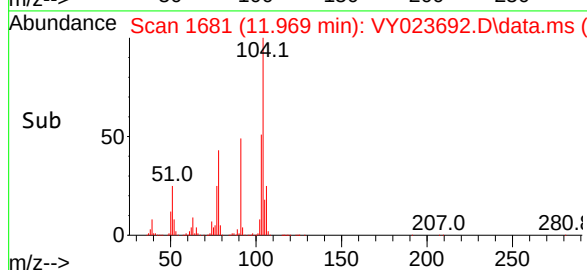
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

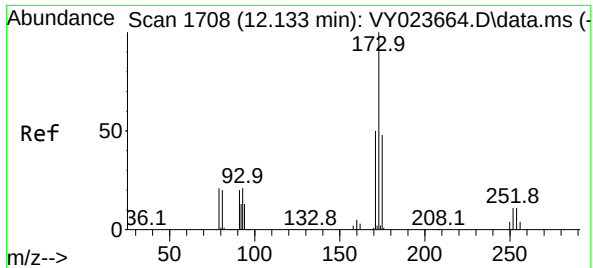


#70  
Styrene  
Concen: 54.077 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



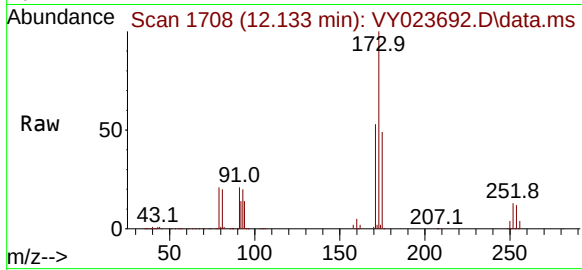
Tgt Ion:104 Resp: 797122  
Ion Ratio Lower Upper  
104 100  
78 46.6 36.5 54.7  
103 54.5 43.7 65.5





#71  
Bromoform  
Concen: 49.333 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

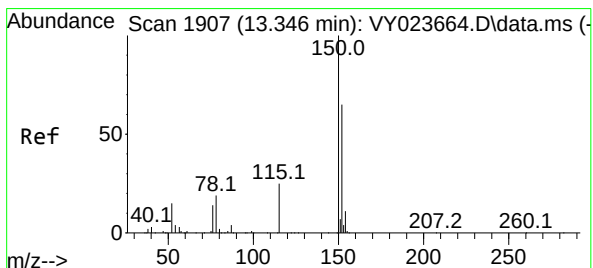
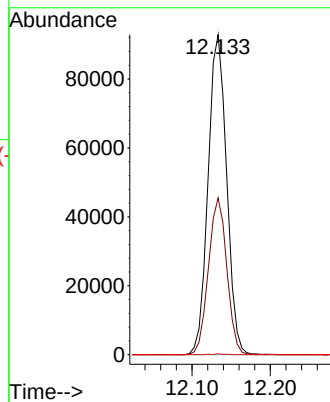
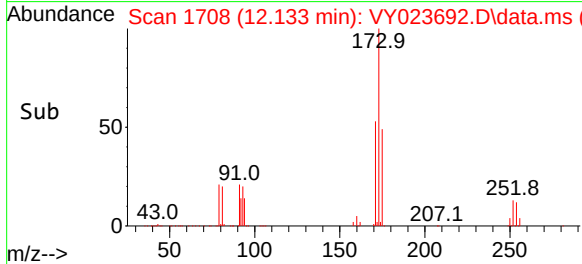
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



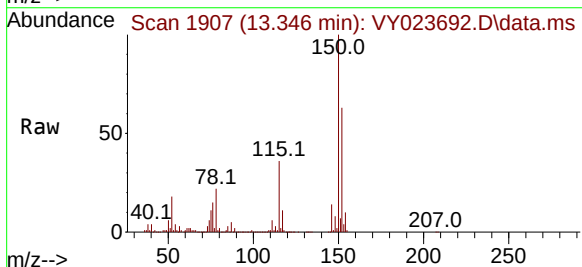
Tgt Ion:173 Resp: 152278  
Ion Ratio Lower Upper  
173 100  
175 48.5 24.2 72.6  
254 0.2 0.2 0.2

Manual Integrations  
APPROVED

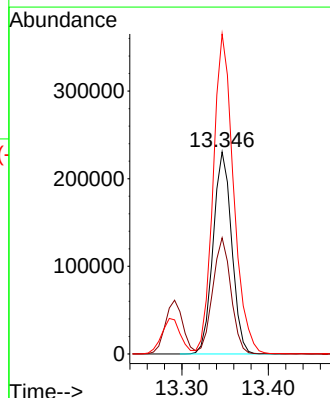
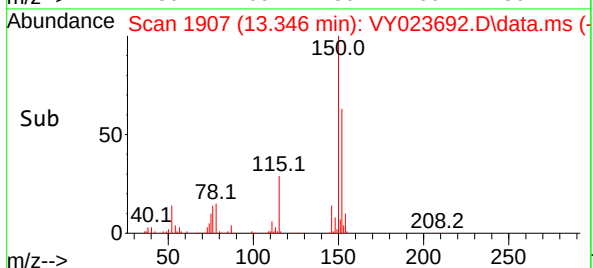
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

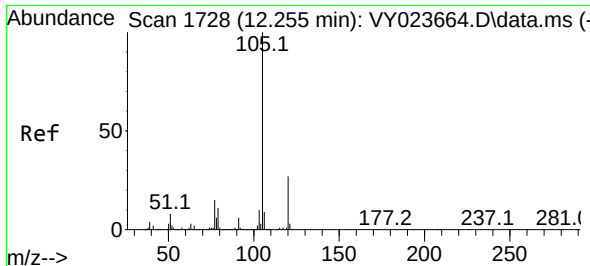


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



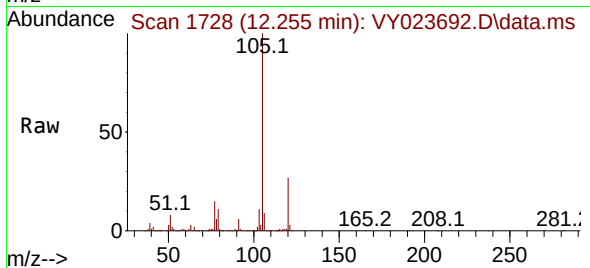
Tgt Ion:152 Resp: 343829  
Ion Ratio Lower Upper  
152 100  
115 56.2 27.5 82.5  
150 173.5 0.0 349.0





#73  
Isopropylbenzene  
Concen: 54.235 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

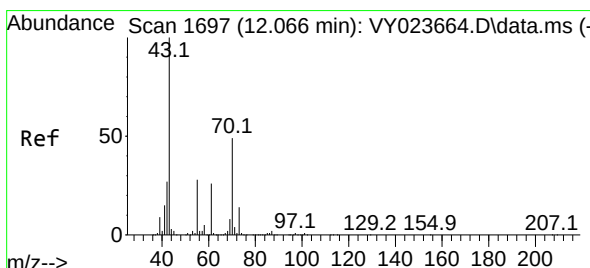
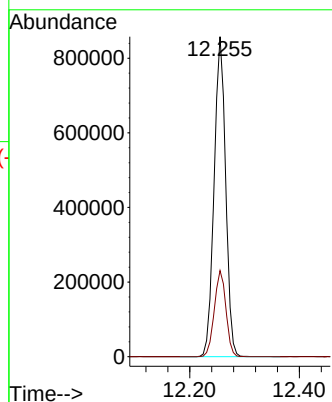
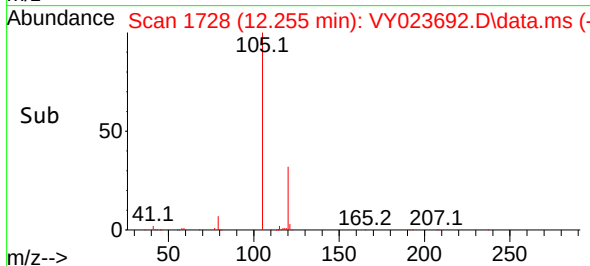
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



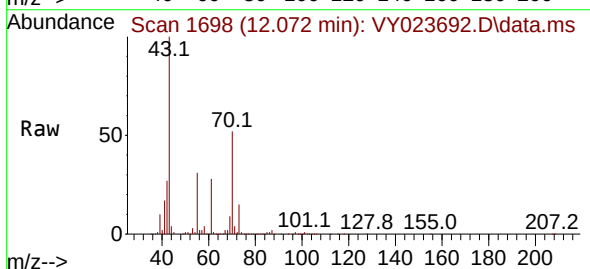
Tgt Ion:105 Resp: 1247190  
Ion Ratio Lower Upper  
105 100  
120 27.1 13.6 40.7

Manual Integrations  
APPROVED

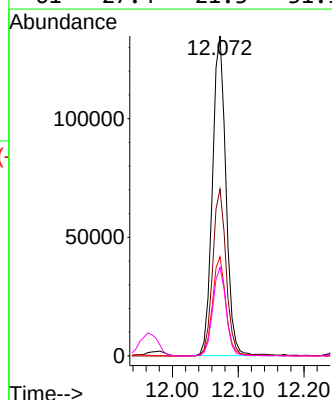
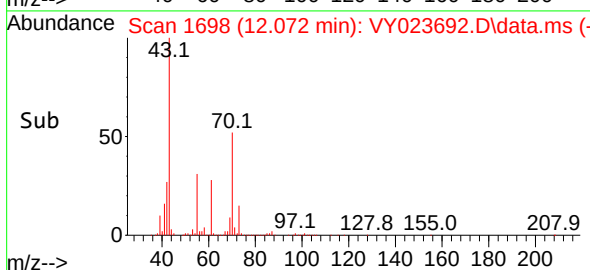
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

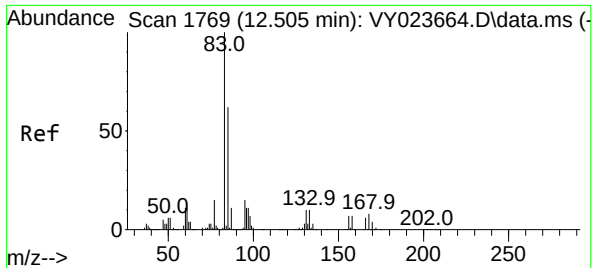


#74  
N-ethyl acetate  
Concen: 49.594 ug/l  
RT: 12.072 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



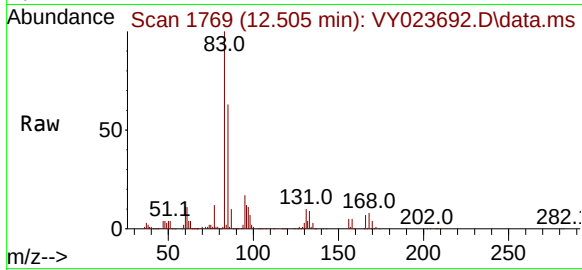
Tgt Ion: 43 Resp: 193086  
Ion Ratio Lower Upper  
43 100  
70 52.1 40.1 60.1  
55 31.2 23.0 34.6  
61 27.4 21.3 31.9





#75  
1,1,2,2-Tetrachloroethane  
Concen: 49.279 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

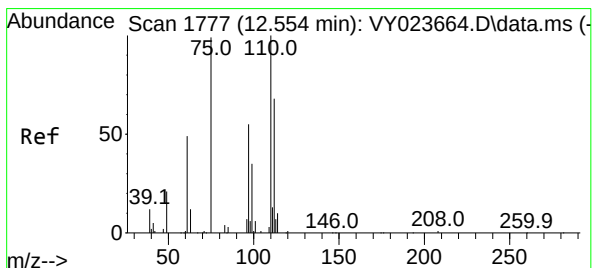
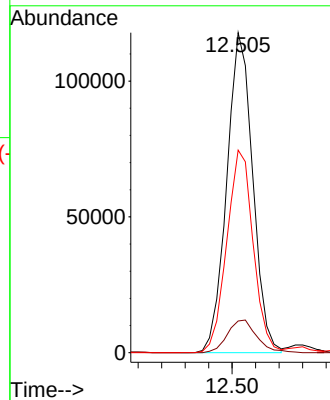
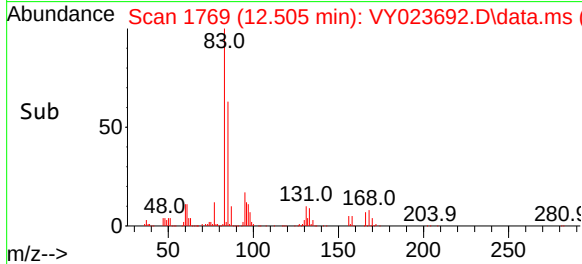
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



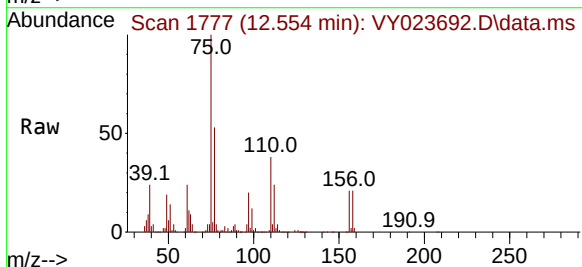
Tgt Ion: 83 Resp: 180988  
Ion Ratio Lower Upper  
83 100  
131 11.5 5.7 17.0  
85 64.3 31.9 95.7

Manual Integrations  
APPROVED

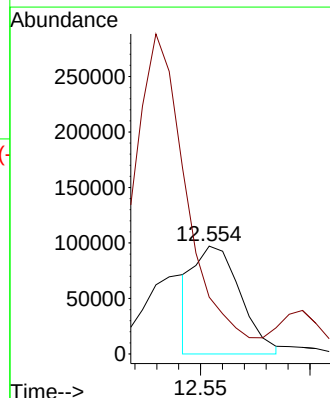
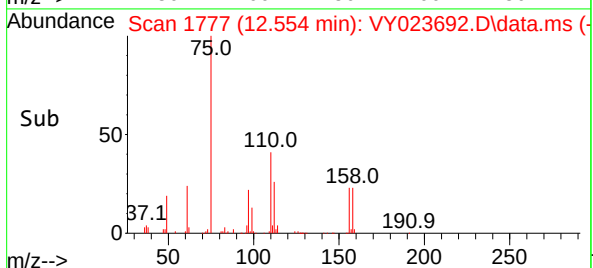
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

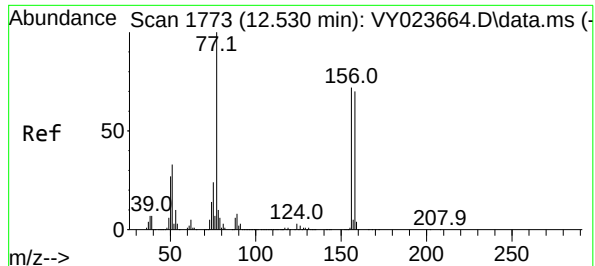


#76  
1,2,3-Trichloropropane  
Concen: 51.280 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



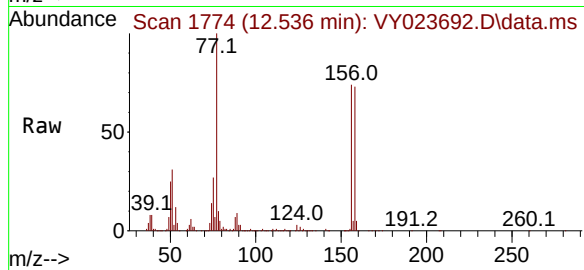
Tgt Ion: 75 Resp: 142693  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





#77  
Bromobenzene  
Concen: 51.371 ug/l  
RT: 12.536 min Scan# 1773  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

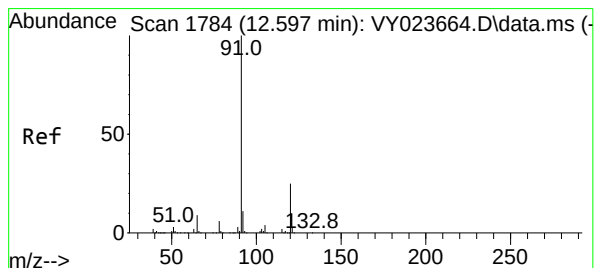
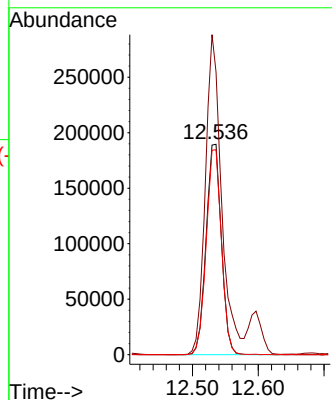
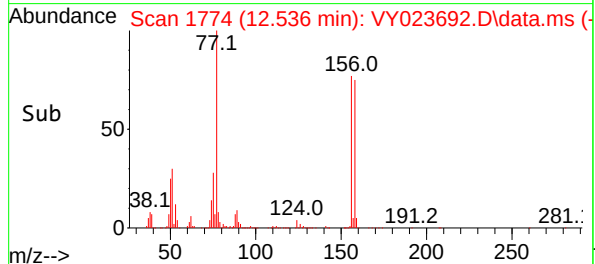
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion:156 Resp: 306420  
Ion Ratio Lower Upper  
156 100  
77 161.7 77.9 233.7  
158 97.4 48.5 145.5

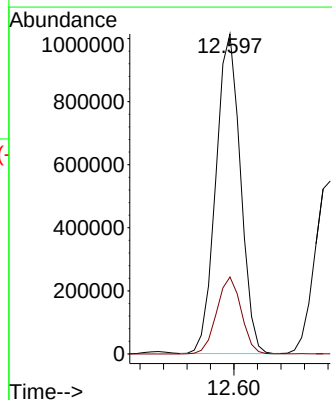
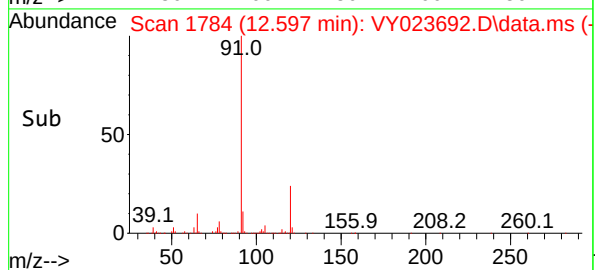
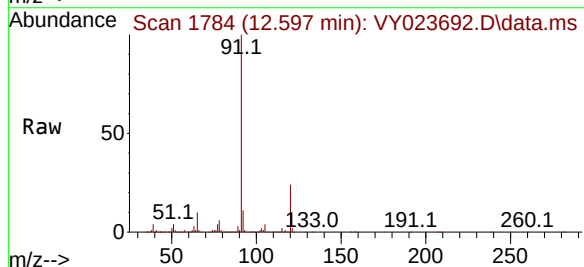
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

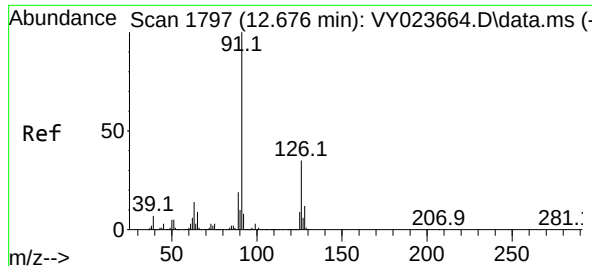


#78  
n-propylbenzene  
Concen: 54.555 ug/l  
RT: 12.597 min Scan# 1784  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion: 91 Resp: 1475672  
Ion Ratio Lower Upper  
91 100  
120 23.9 12.0 36.1







#79

2-Chlorotoluene

Concen: 53.786 ug/l

RT: 12.682 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 84423

Ion Ratio Lower Upper

91 100

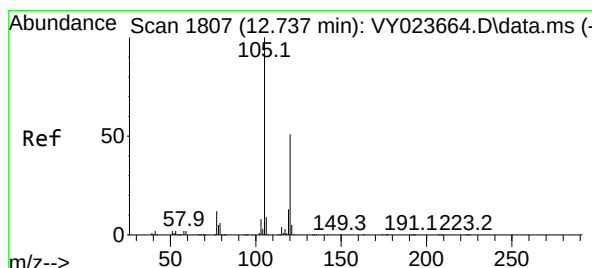
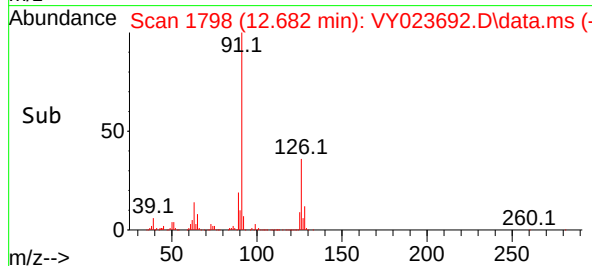
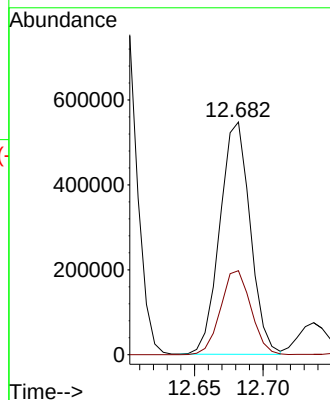
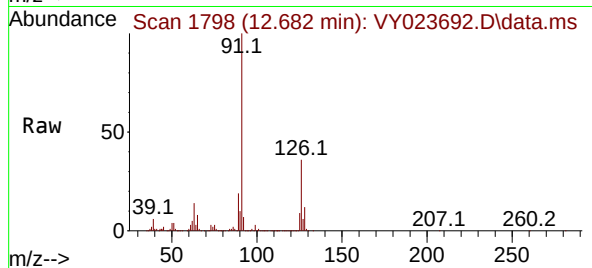
126 36.3 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#80

1,3,5-Trimethylbenzene

Concen: 55.309 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023692.D

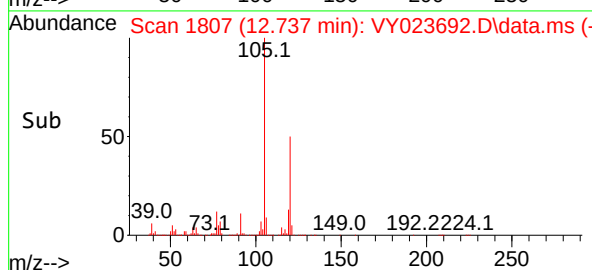
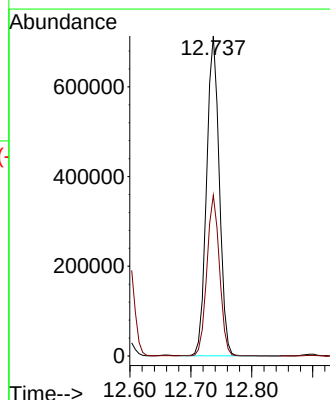
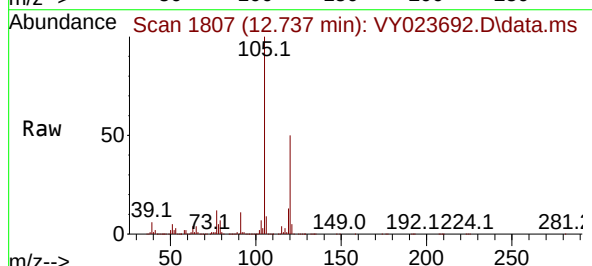
Acq: 06 Nov 2025 08:42

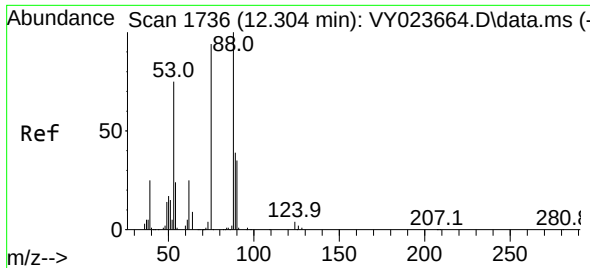
Tgt Ion:105 Resp: 1033388

Ion Ratio Lower Upper

105 100

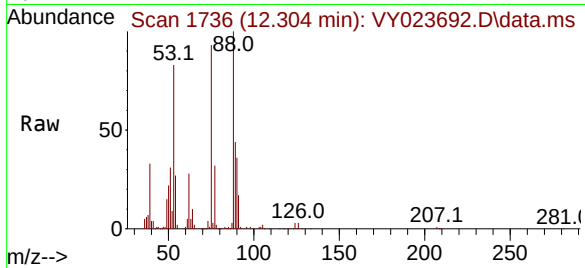
120 49.8 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 49.884 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

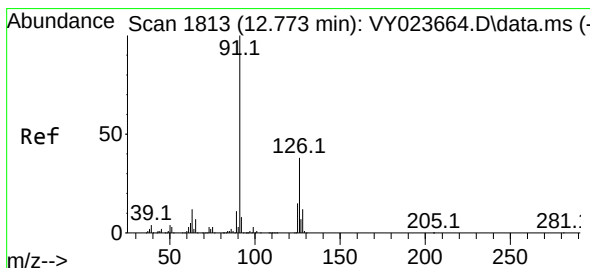
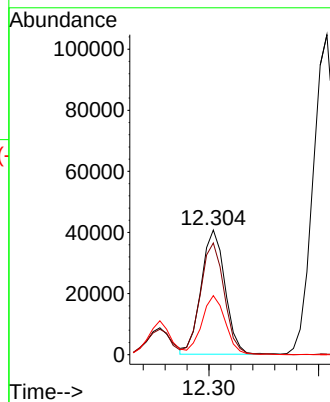
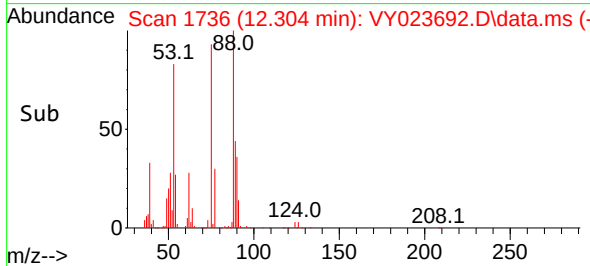
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion: 75 Resp: 6142  
Ion Ratio Lower Upper  
75 100  
53 90.4 69.6 104.4  
89 46.9 38.2 57.4

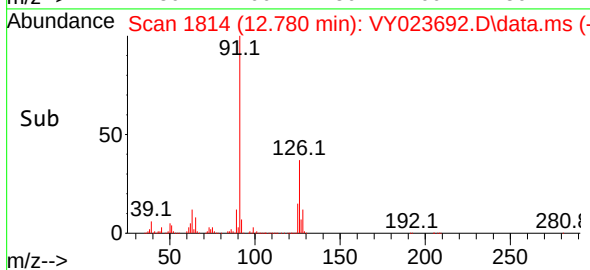
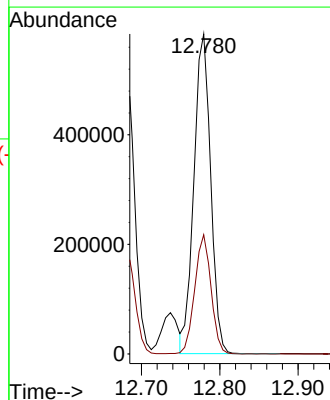
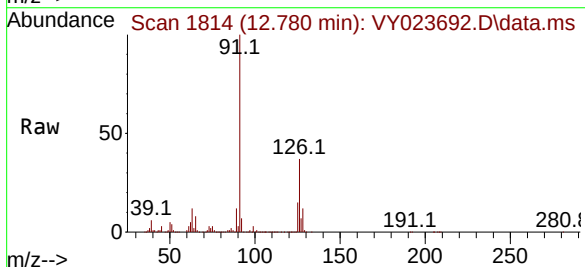
Manual Integrations  
APPROVED

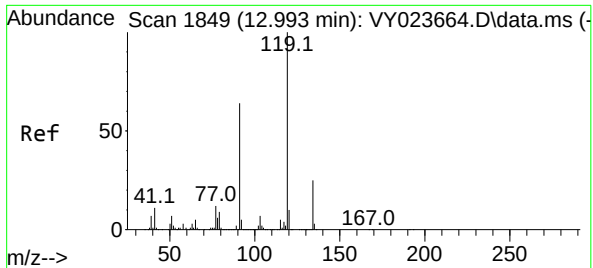
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#82  
4-Chlorotoluene  
Concen: 53.657 ug/l  
RT: 12.780 min Scan# 1814  
Delta R.T. 0.006 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion: 91 Resp: 868577  
Ion Ratio Lower Upper  
91 100  
126 36.4 18.1 54.4





#83

tert-Butylbenzene

Concen: 53.674 ug/l

RT: 12.999 min Scan# 1850

Delta R.T. 0.006 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 91336

Ion Ratio Lower Upper

119 100

91 61.1 30.7 92.1

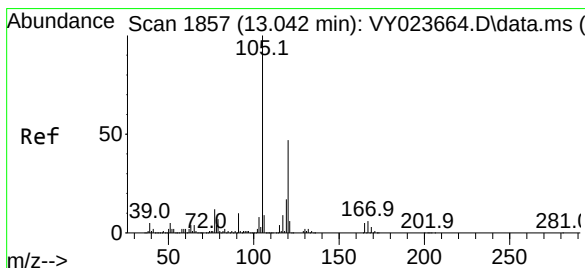
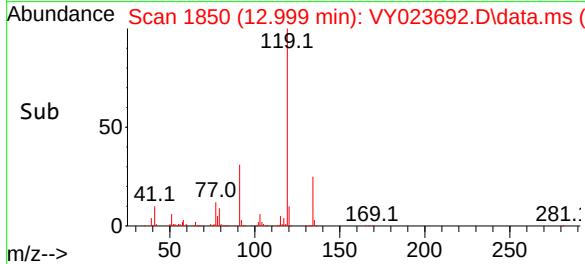
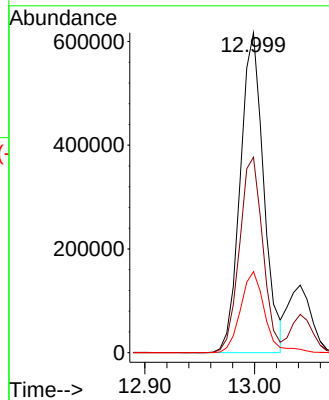
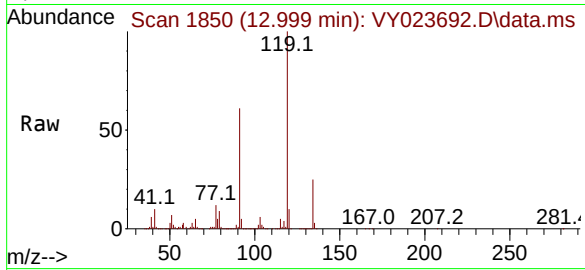
134 26.3 13.1 39.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#84

1,2,4-Trimethylbenzene

Concen: 55.213 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY023692.D

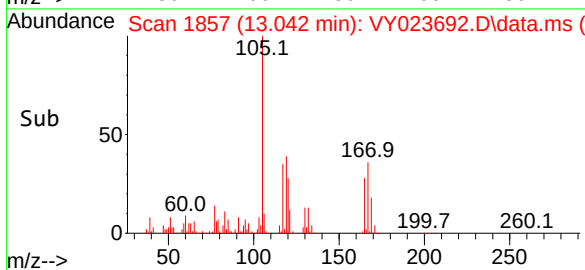
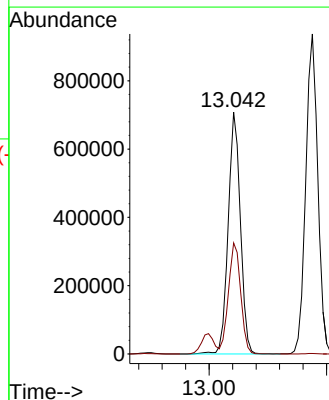
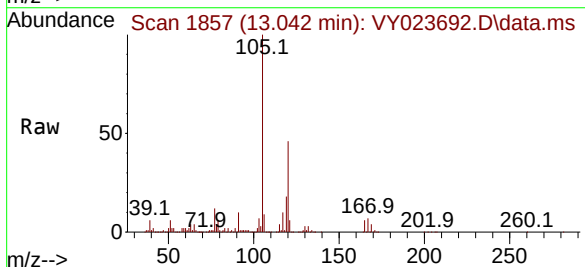
Acq: 06 Nov 2025 08:42

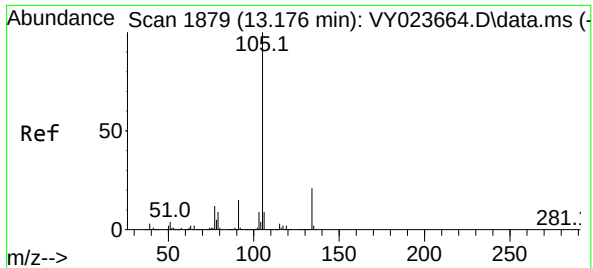
Tgt Ion:105 Resp: 1021769

Ion Ratio Lower Upper

105 100

120 46.2 23.2 69.6





#85

sec-Butylbenzene

Concen: 54.121 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 132835

Ion Ratio Lower Upper

105 100

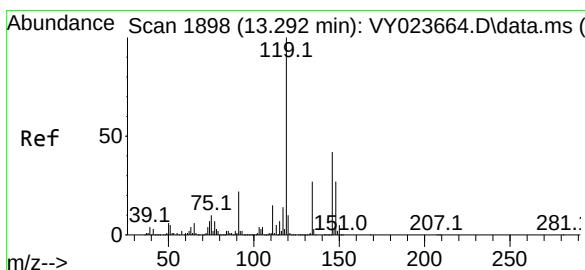
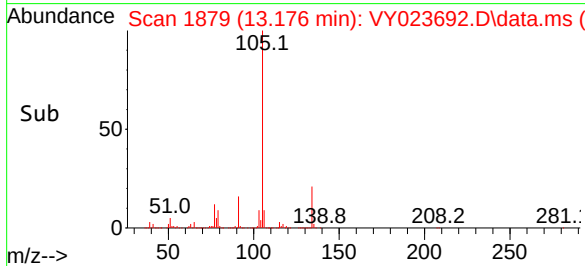
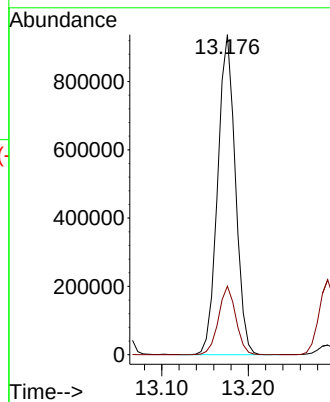
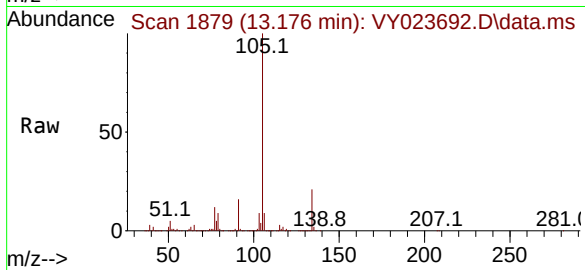
134 21.0 10.4 31.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#86

p-Isopropyltoluene

Concen: 54.561 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

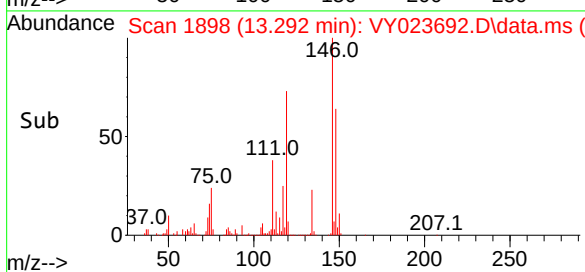
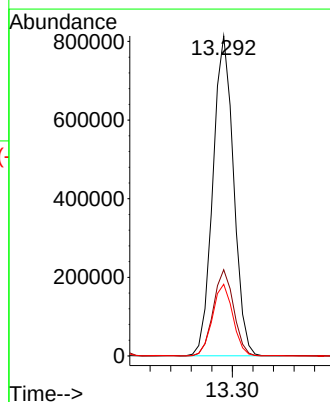
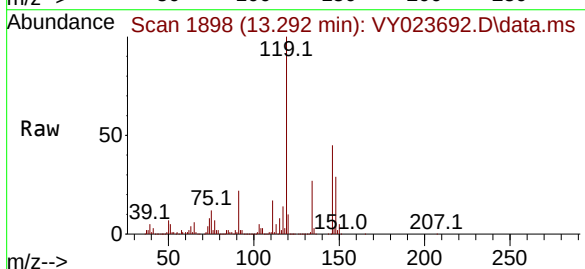
Tgt Ion:119 Resp: 1133654

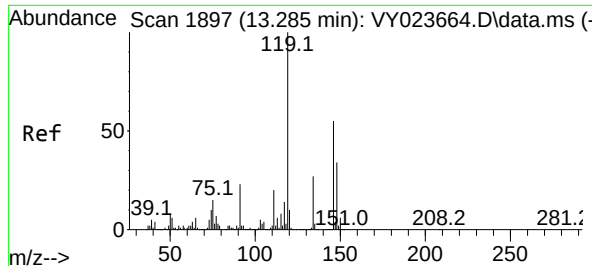
Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.2

91 22.2 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 50.991 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 59864

Ion Ratio Lower Upper

146 100

111 38.4 18.8 56.3

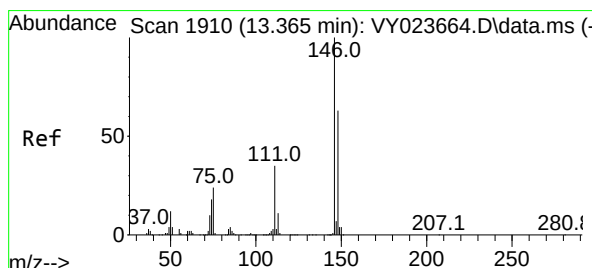
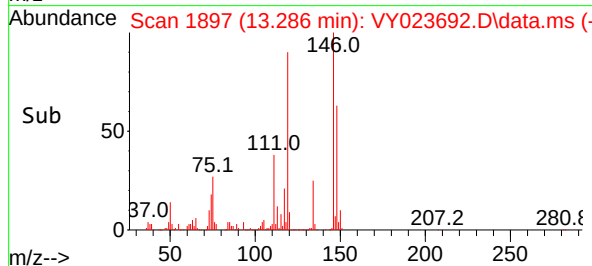
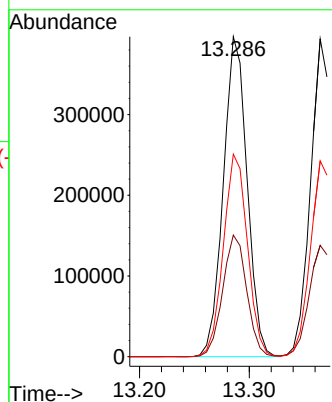
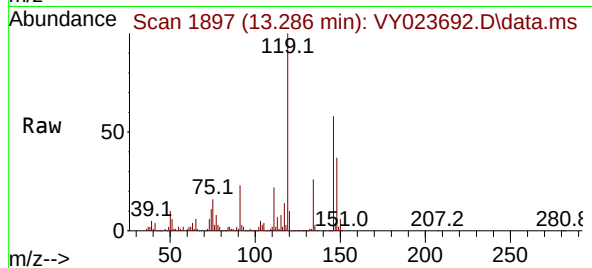
148 64.0 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#88

1,4-Dichlorobenzene

Concen: 50.514 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

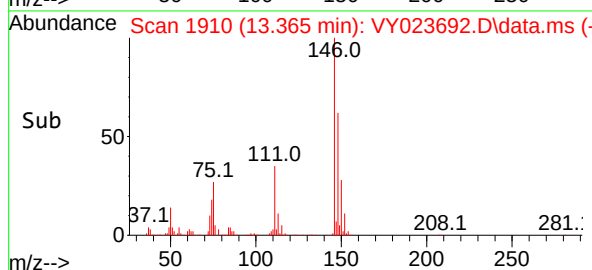
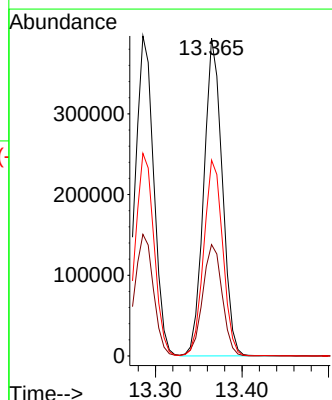
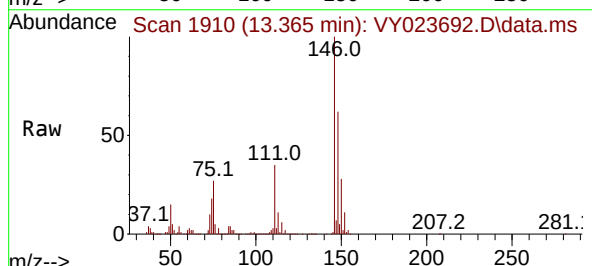
Tgt Ion:146 Resp: 582564

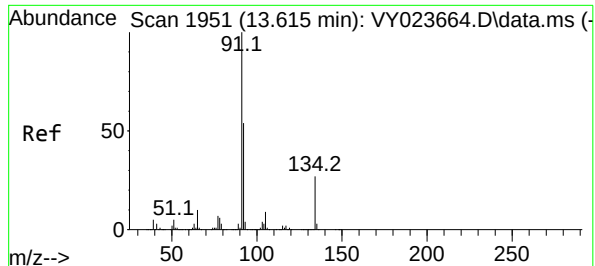
Ion Ratio Lower Upper

146 100

111 36.9 18.3 54.8

148 63.3 31.8 95.3





#89

n-Butylbenzene

Concen: 55.188 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 997124

Ion Ratio Lower Upper

91 100

92 53.3 26.5 79.4

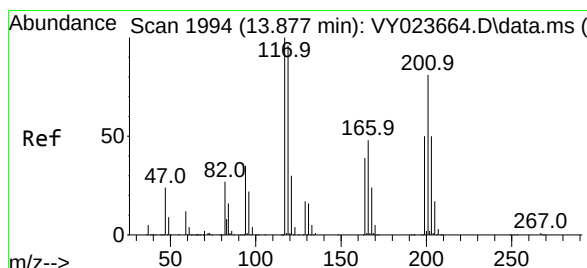
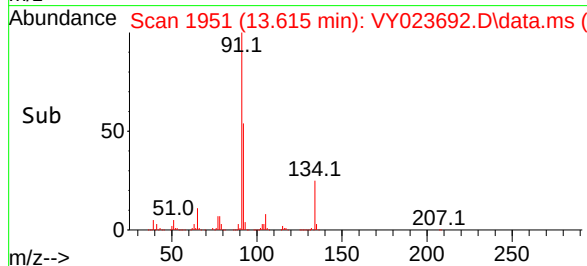
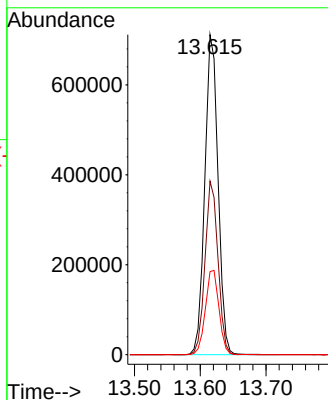
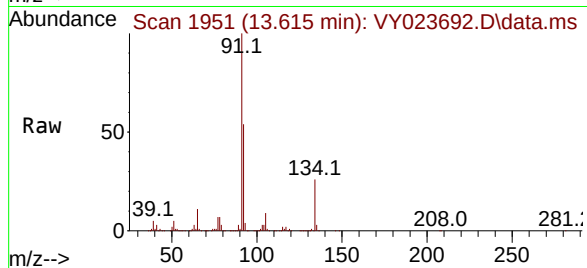
134 27.1 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#90

Hexachloroethane

Concen: 51.431 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023692.D

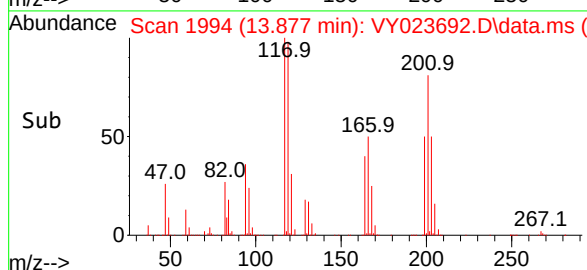
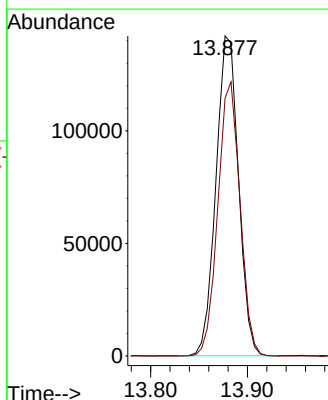
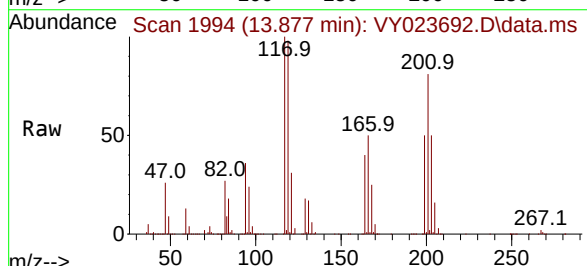
Acq: 06 Nov 2025 08:42

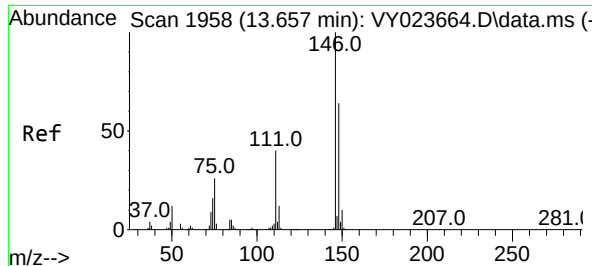
Tgt Ion:117 Resp: 229647

Ion Ratio Lower Upper

117 100

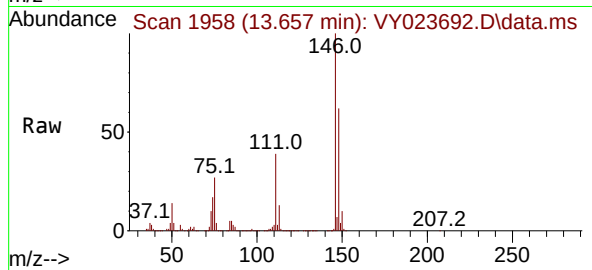
201 84.2 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 50.757 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

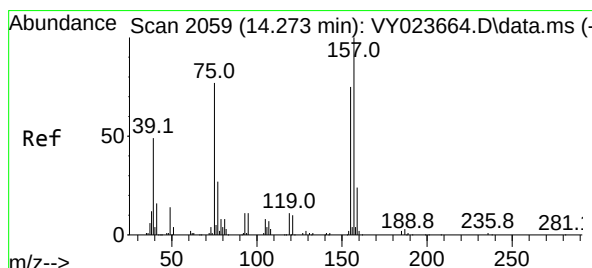
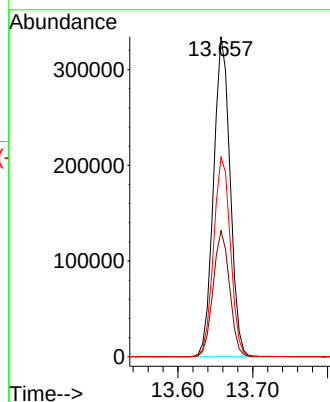
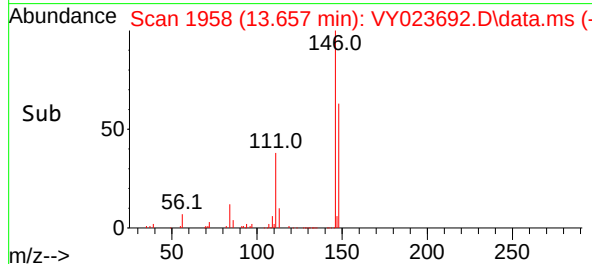
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



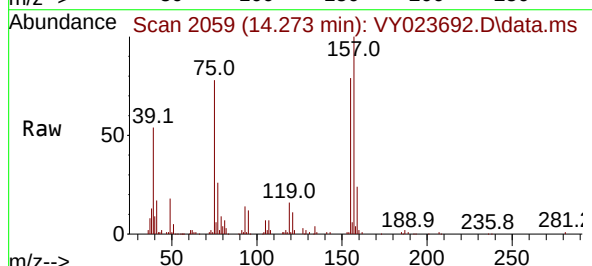
Tgt Ion:146 Resp: 513530  
Ion Ratio Lower Upper  
146 100  
111 39.1 19.5 58.5  
148 63.7 31.9 95.9

Manual Integrations  
APPROVED

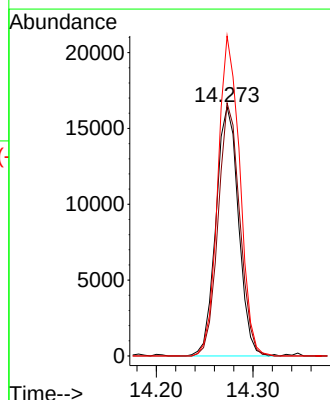
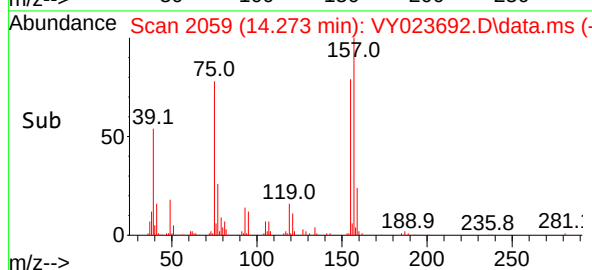
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

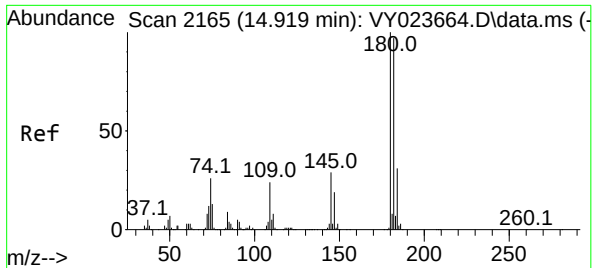


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 46.980 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42



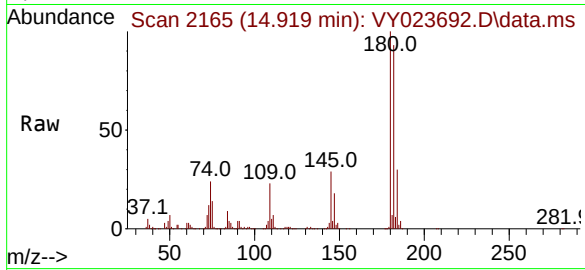
Tgt Ion: 75 Resp: 26567  
Ion Ratio Lower Upper  
75 100  
155 97.0 49.4 148.2  
157 124.1 63.2 189.8





#93  
1,2,4-Trichlorobenzene  
Concen: 50.173 ug/l  
RT: 14.919 min Scan# 2165  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

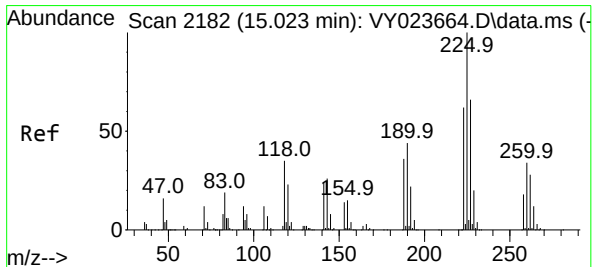
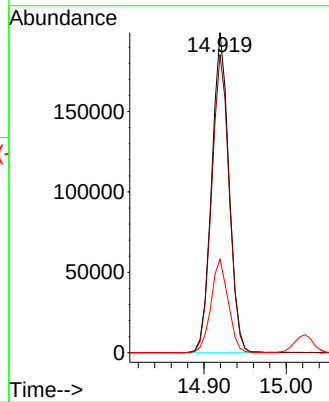
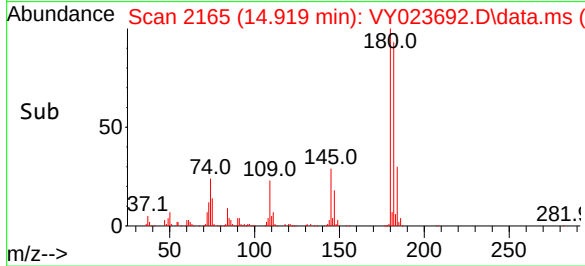
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050



Tgt Ion:180 Resp: 290360  
Ion Ratio Lower Upper  
180 100  
182 94.3 47.5 142.6  
145 29.1 14.4 43.4

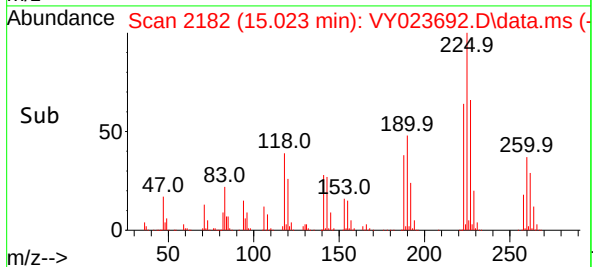
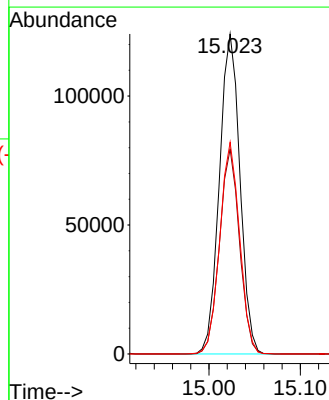
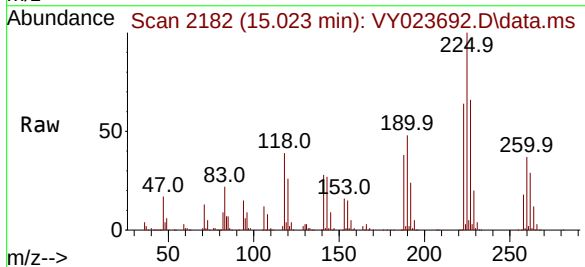
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

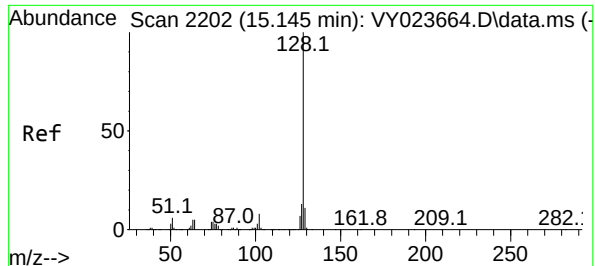


#94  
Hexachlorobutadiene  
Concen: 51.103 ug/l  
RT: 15.023 min Scan# 2182  
Delta R.T. 0.000 min  
Lab File: VY023692.D  
Acq: 06 Nov 2025 08:42

Tgt Ion:225 Resp: 193773  
Ion Ratio Lower Upper  
225 100  
223 62.3 30.8 92.3  
227 64.2 32.0 96.2







#95

Naphthalene

Concen: 42.786 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 424304

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

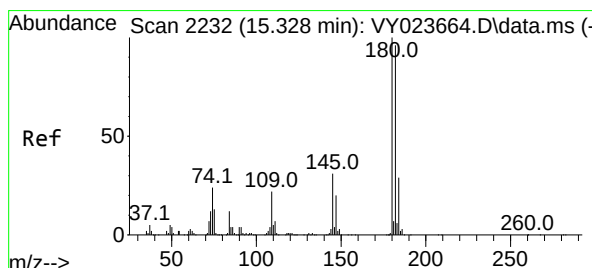
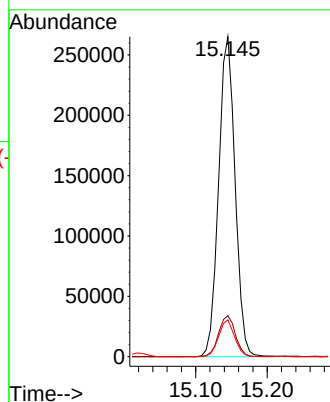
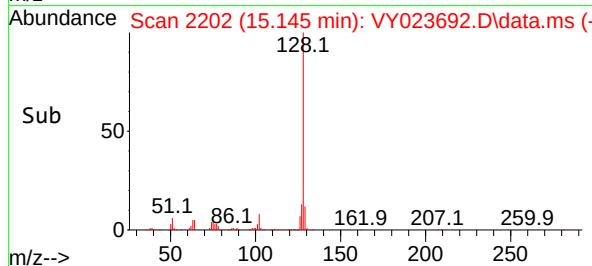
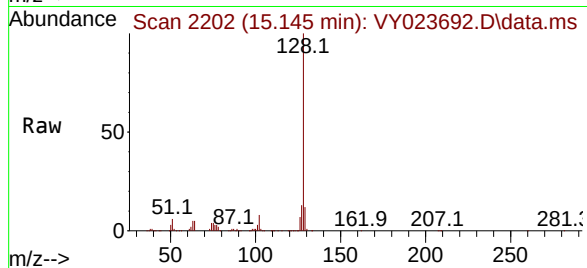
129 11.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#96

1,2,3-Trichlorobenzene

Concen: 49.428 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY023692.D

Acq: 06 Nov 2025 08:42

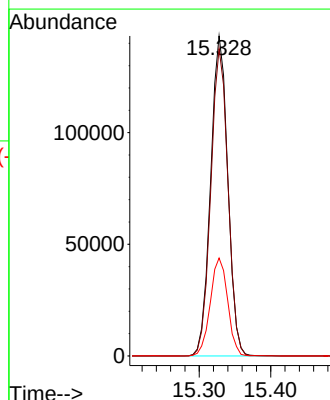
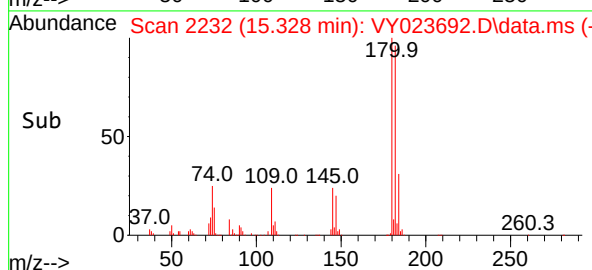
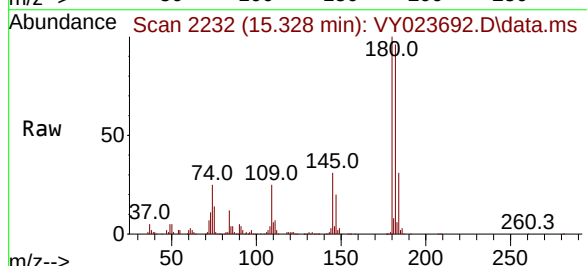
Tgt Ion:180 Resp: 238992

Ion Ratio Lower Upper

180 100

182 96.0 47.5 142.6

145 31.0 15.5 46.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.328 | 0.287 | 12.5  | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.459 | 0.441 | 3.9   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.598 | 0.567 | 5.2#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.503 | 0.450 | 10.5  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.413 | 0.403 | 2.4   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.842 | 0.801 | 4.9   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.226 | 0.208 | 8.0   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.464 | 0.452 | 2.6   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.548 | 0.569 | -3.8  | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.028 | 0.024 | 14.3  | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.447 | 0.435 | 2.7#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.035 | 0.027 | 22.9  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.544 | 0.558 | -2.6  | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 0.086 | 0.085 | 1.2   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.106 | 0.111 | -4.7  | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.371 | 1.371 | 0.0   | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 0.234 | 0.221 | 5.6   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.036 | 1.010 | 2.5   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.512 | 0.493 | 3.7   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.504 | 0.513 | -1.8  | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.212 | 1.278 | -5.4  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.647 | 0.672 | -3.9  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.807 | 0.815 | -1.0  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.123 | 0.120 | 2.4   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.742 | 0.763 | -2.8  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.575 | 0.579 | -0.7  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.309 | 0.315 | -1.9  | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.065 | 0.064 | 1.5   | 96    | 0.00     |
| 30 C  | Chloroform                  | 0.901 | 0.914 | -1.4# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.703 | 0.687 | 2.3   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.805 | 0.806 | -0.1  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.427 | 0.431 | -0.9  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.326 | -4.5  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.418 | 0.435 | -4.1  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.162 | 0.165 | -1.9  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.492 | 0.508 | -3.3  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.534 | 0.552 | -3.4  | 95    | 0.00     |
| 40 TM | Benzene                     | 1.316 | 1.374 | -4.4  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.088 | 0.086 | 2.3   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.333 | 0.335 | -0.6  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.304 | 0.294 | 3.3   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.379 | -0.3  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.290 | 0.300 | -3.4# | 98    | 0.00     |
| 46 T  | Dibromomethane              | 0.180 | 0.182 | -1.1  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.454 | 0.470 | -3.5  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.143 | 0.145 | -1.4  | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.254 | -7.7  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.162 | 0.162 | 0.0   | 94    | 0.00     |
| 52 CM | Toluene                     | 0.840 | 0.895 | -6.5# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.384 | 0.396 | -3.1  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.460 | 0.479 | -4.1  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.241 | 0.244 | -1.2  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.265 | 0.270 | -1.9  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.381 | 0.390 | -2.4  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.122 | 0.126 | -3.3  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.118 | 0.120 | -1.7  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.330 | 0.332 | -0.6  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.226 | 0.0   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.376 | 0.410 | -9.0  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.520 | 0.519 | 0.2   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.088 | 1.108 | -1.8  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.393 | -2.1  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.762 | 1.896 | -7.6# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.704 | 0.762 | -8.2  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.691 | -6.1  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.074 | 1.161 | -8.1  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.222 | 1.3   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.344 | 3.627 | -8.5  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 0.566 | 0.562 | 0.7   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.534 | 0.526 | 1.5   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.405 | 0.415 | -2.5  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.867 | 0.891 | -2.8  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 3.933 | 4.292 | -9.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.283 | 2.455 | -7.5  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.717 | 3.006 | -10.6 | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.179 | 0.179 | 0.0   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.354 | 2.526 | -7.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.475 | 2.656 | -7.3  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.691 | 2.972 | -10.4 | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.569 | 3.863 | -8.2  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.022 | 3.297 | -9.1  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.707 | 1.741 | -2.0  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.677 | 1.694 | -1.0  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.627 | 2.900 | -10.4 | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.649 | 0.668 | -2.9  | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.471 | 1.494 | -1.6  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.082 | 0.077 | 6.1   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.842 | 0.844 | -0.2  | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.551 | 0.564 | -2.4  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 1.257 | 1.234 | 1.8   | 86    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023692.D  
Acq On : 06 Nov 2025 08:42  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.703 | 0.695 | 1.1  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.694  | 12.6  | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.001  | 4.0   | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.430  | 5.1#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.720  | 10.6  | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.787  | 2.4   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.603  | 4.8   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.079  | 7.8   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.727  | 2.5   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.929  | -3.9  | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 214.909 | 14.0  | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.730  | 2.5#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 190.265 | 23.9  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.279  | -2.6  | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 246.060 | 1.6   | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.102 | -4.8  | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.257  | 5.5   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.763  | 2.5   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.161  | 3.7   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.901  | -1.8  | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.737  | -5.5  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.826 | -3.9  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.497  | -1.0  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 244.465 | 2.2   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.381  | -2.8  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.307  | -0.6  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.995  | -2.0  | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.417 | 1.8   | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.771  | -1.5# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.888  | 2.2   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.080  | -0.2  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.542  | -1.1  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.110  | -4.2  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.056  | -4.1  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.938  | -1.9  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.680  | -3.4  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.771  | -3.5  | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.191  | -4.4  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.625  | 2.8   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.268  | -0.5  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.431  | 3.1   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.084  | -0.2  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.631  | -3.3# | 98    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.465  | -0.9  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 51.829  | -3.7  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 50.398  | -0.8  | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023692.D  
 Acq On : 06 Nov 2025 08:42  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1017.395 | -1.7  | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.849   | -7.7  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.399  | -0.2  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.262   | -6.5# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.590   | -3.2  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.038   | -4.1  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.815   | -1.6  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.939   | -1.9  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.160   | -2.3  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.588  | -3.4  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 255.473  | -2.2  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.236   | -0.5  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.132   | -0.3  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.429   | -8.9  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.883   | 0.2   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.915   | -1.8  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.027   | -2.1  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.799   | -7.6# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.286  | -8.3  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.067   | -6.1  | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.077   | -8.2  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.333   | 1.3   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.235   | -8.5  | 95    | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 49.594   | 0.8   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.279   | 1.4   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.280   | -2.6  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.371   | -2.7  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.555   | -9.1  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.786   | -7.6  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.309   | -10.6 | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.884   | 0.2   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.657   | -7.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.674   | -7.3  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.213   | -10.4 | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.121   | -8.2  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.561   | -9.1  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.991   | -2.0  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.514   | -1.0  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.188   | -10.4 | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 51.431   | -2.9  | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.757   | -1.5  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 46.980   | 6.0   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 50.173   | -0.3  | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 51.103   | -2.2  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 42.786   | 14.4  | 86    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023692.D  
Acq On : 06 Nov 2025 08:42  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 07 04:11:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.428 | 1.1  | 88    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6



# QC SAMPLE DATA

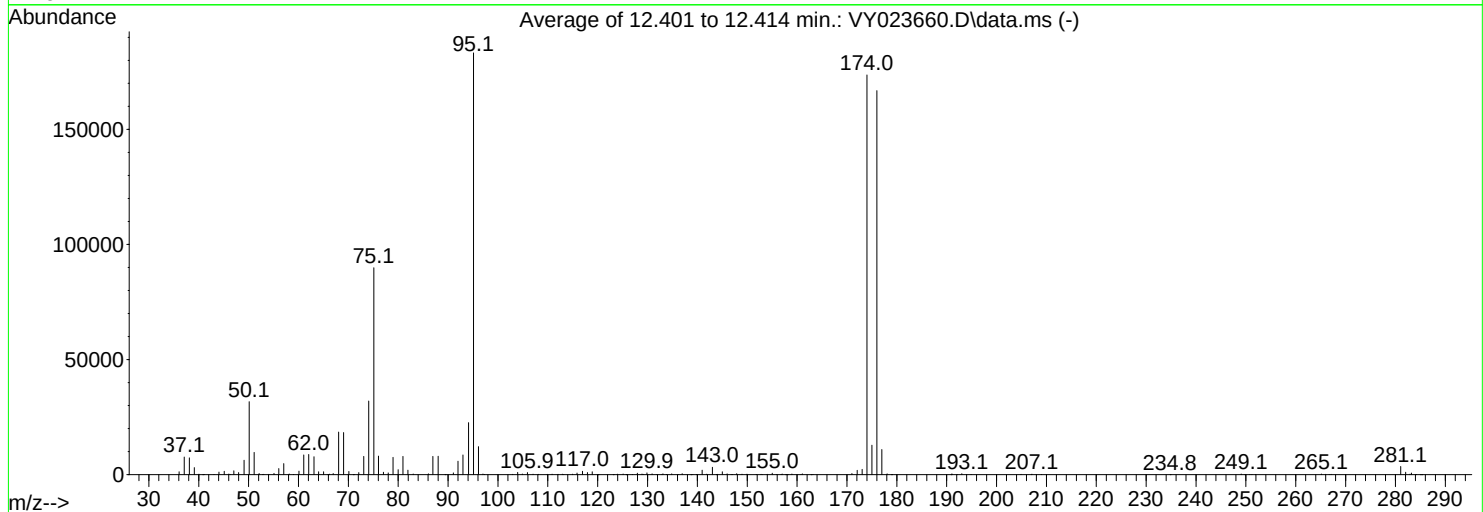
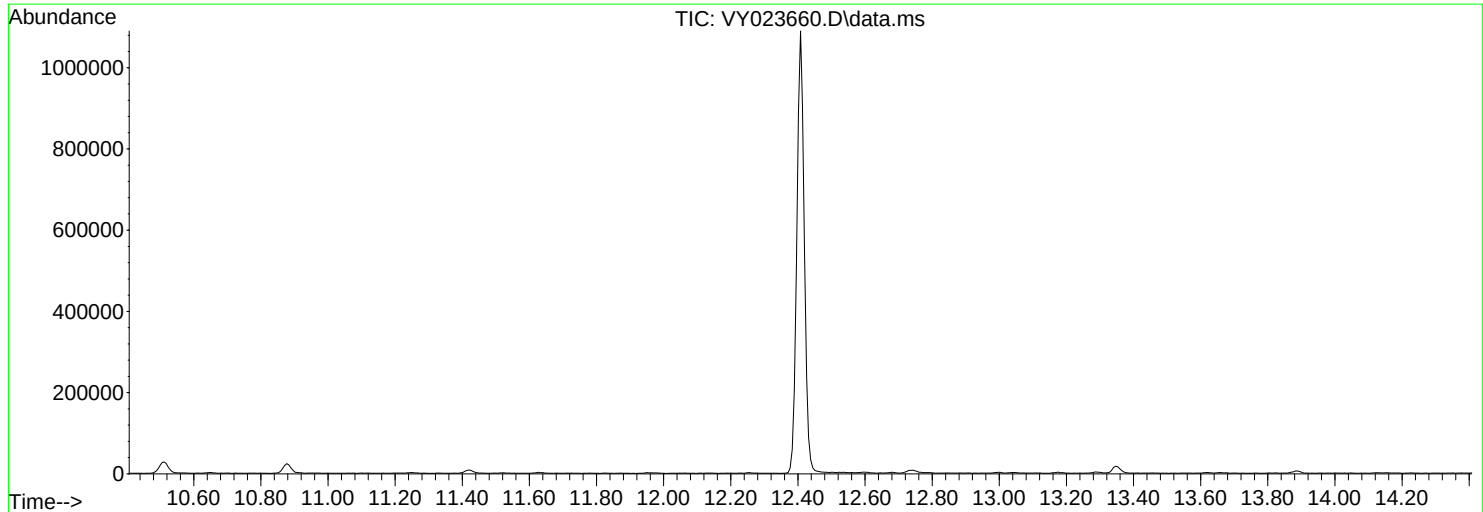


Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110425\  
Data File : VY023660.D  
Acq On : 04 Nov 2025 08:11  
Operator : SY/MD  
Sample : BFB  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Title : SW846 8260  
Last Update : Wed Nov 05 04:41:50 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

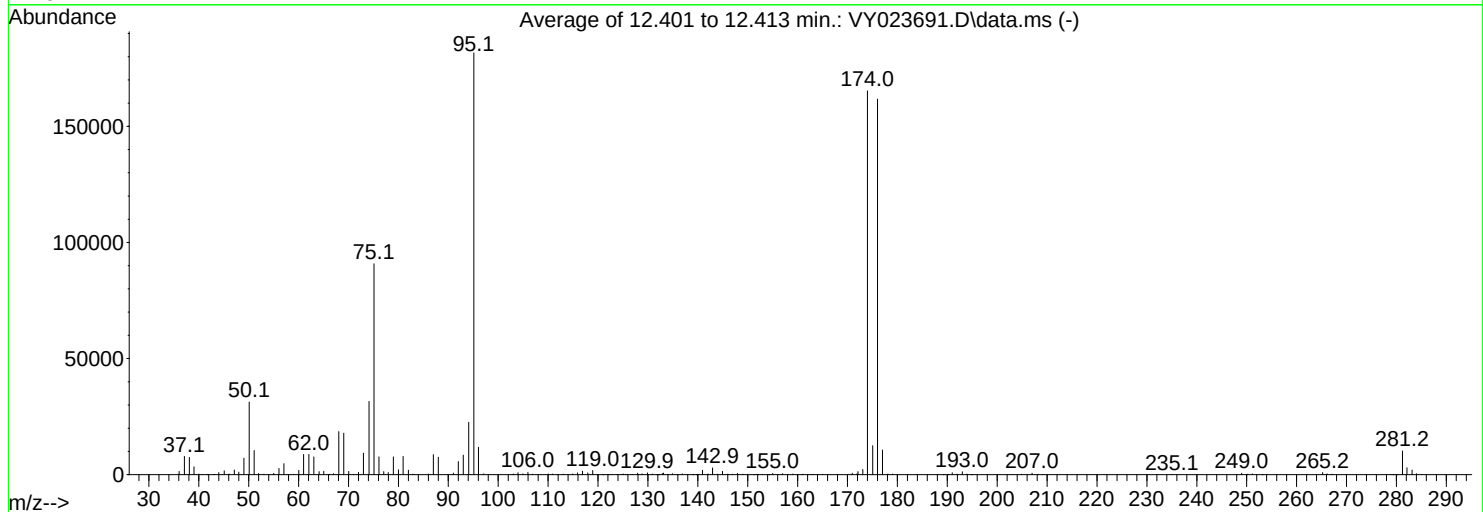
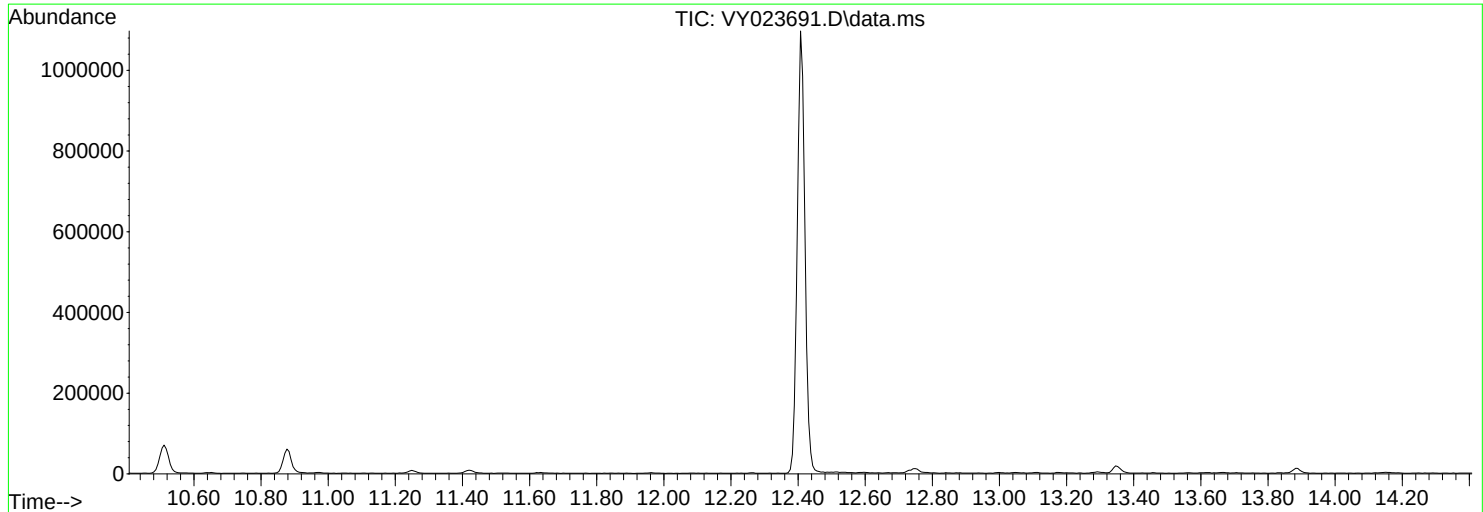
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 17.3         | 31677      | PASS                |
| 75             | 95              | 30              | 60              | 49.0         | 89880      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 183253     | PASS                |
| 96             | 95              | 5               | 9               | 6.7          | 12193      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.3          | 2292       | PASS                |
| 174            | 95              | 50              | 100             | 94.8         | 173653     | PASS                |
| 175            | 174             | 5               | 9               | 7.4          | 12790      | PASS                |
| 176            | 174             | 95              | 101             | 96.1         | 166869     | PASS                |
| 177            | 176             | 5               | 9               | 6.5          | 10925      | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023691.D  
Acq On : 06 Nov 2025 08:09  
Operator : SY/MD  
Sample : BFB  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Title : SW846 8260  
Last Update : Wed Nov 05 04:41:50 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 17.2         | 31323      | PASS                |
| 75             | 95              | 30              | 60              | 50.0         | 90808      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 181653     | PASS                |
| 96             | 95              | 5               | 9               | 6.5          | 11780      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.3          | 2185       | PASS                |
| 174            | 95              | 50              | 100             | 91.0         | 165333     | PASS                |
| 175            | 174             | 5               | 9               | 7.6          | 12503      | PASS                |
| 176            | 174             | 95              | 101             | 97.8         | 161725     | PASS                |
| 177            | 176             | 5               | 9               | 6.6          | 10598      | PASS                |

### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBL01

Lab Sample ID: VY1106SBL01

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number     | Parameter                      | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|----------------|--------------------------------|-------|------|----|------|------------|-------|----------------|----------|
| <b>TARGETS</b> |                                |       |      |    |      |            |       |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 74-87-3        | Chloromethane                  | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-01-4        | Vinyl Chloride                 | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 141-78-6       | Ethyl Acetate                  | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-21-4       | Isopropyl Acetate              | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 74-83-9        | Bromomethane                   | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-00-3        | Chloroethane                   | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 109-99-9       | Tetrahydrofuran                | 4.70  | U    | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-69-4        | Trichlorofluoromethane         | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-65-0        | Tert butyl alcohol             | 13.7  | U    | 1  | 13.7 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 60-29-7        | Diethyl Ether                  | 0.77  | U    | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-35-4        | 1,1-Dichloroethene             | 1.00  | U    | 1  | 1.00 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 107-02-8       | Acrolein                       | 8.80  | U    | 1  | 8.80 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 107-13-1       | Acrylonitrile                  | 5.00  | U    | 1  | 5.00 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 67-64-1        | Acetone                        | 4.70  | U    | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-15-0        | Carbon Disulfide               | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 1634-04-4      | Methyl tert-butyl Ether        | 0.73  | U    | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 79-20-9        | Methyl Acetate                 | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-09-2        | Methylene Chloride             | 3.50  | U    | 1  | 3.50 | 10.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 0.86  | U    | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-05-4       | Vinyl Acetate                  | 4.90  | U    | 1  | 4.90 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-34-3        | 1,1-Dichloroethane             | 0.80  | U    | 1  | 0.80 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 110-82-7       | Cyclohexane                    | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 78-93-3        | 2-Butanone                     | 6.50  | U    | 1  | 6.50 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 56-23-5        | Carbon Tetrachloride           | 0.97  | U    | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 594-20-7       | 2,2-Dichloropropane            | 1.30  | U    | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 0.75  | U    | 1  | 0.75 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 74-97-5        | Bromochloromethane             | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 67-66-3        | Chloroform                     | 0.84  | U    | 1  | 0.84 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 0.93  | U    | 1  | 0.93 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-87-2       | Methylcyclohexane              | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 563-58-6       | 1,1-Dichloropropene            | 0.87  | U    | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 71-43-2        | Benzene                        | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 107-06-2       | 1,2-Dichloroethane             | 0.79  | U    | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 79-01-6        | Trichloroethene                | 0.81  | U    | 1  | 0.81 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 78-87-5        | 1,2-Dichloropropane            | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 74-95-3        | Dibromomethane                 | 0.89  | U    | 1  | 0.89 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-27-4        | Bromodichloromethane           | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 3.60  | U    | 1  | 3.60 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 80-62-6        | Methyl methacrylate            | 0.74  | U    | 1  | 0.74 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-88-3       | Toluene                        | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 0.65  | U    | 1  | 0.65 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |

### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBL01

Lab Sample ID: VY1106SBL01

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number  | Parameter                   | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|-------------|-----------------------------|-------|------|----|------|------------|-------|----------------|----------|
| 10061-01-5  | cis-1,3-Dichloropropene     | 0.62  | U    | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 79-00-5     | 1,1,2-Trichloroethane       | 0.92  | U    | 1  | 0.92 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 142-28-9    | 1,3-Dichloropropane         | 0.68  | U    | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 110-75-8    | 2-Chloroethyl Vinyl ether   | 3.80  | U    | 1  | 3.80 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 591-78-6    | 2-Hexanone                  | 3.70  | U    | 1  | 3.70 | 25.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 124-48-1    | Dibromochloromethane        | 0.87  | U    | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 106-93-4    | 1,2-Dibromoethane           | 0.88  | U    | 1  | 0.88 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 127-18-4    | Tetrachloroethene           | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-90-7    | Chlorobenzene               | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane   | 0.77  | U    | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 67-72-1     | Hexachloroethane            | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 100-41-4    | Ethyl Benzene               | 0.67  | U    | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 179601-23-1 | m/p-Xylenes                 | 1.20  | U    | 1  | 1.20 | 10.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 1330-20-7   | Total Xylenes               | 2.02  | U    | 1  | 2.02 | 15.0       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 95-47-6     | o-Xylene                    | 0.82  | U    | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 100-42-5    | Styrene                     | 0.71  | U    | 1  | 0.71 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 75-25-2     | Bromoform                   | 0.86  | U    | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 98-82-8     | Isopropylbenzene            | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane   | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 96-18-4     | 1,2,3-Trichloropropane      | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-86-1    | Bromobenzene                | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 103-65-1    | n-propylbenzene             | 0.73  | U    | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 95-49-8     | 2-Chlorotoluene             | 0.68  | U    | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 108-67-8    | 1,3,5-Trimethylbenzene      | 0.82  | U    | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 106-43-4    | 4-Chlorotoluene             | 1.20  | U    | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 98-06-6     | tert-Butylbenzene           | 0.67  | U    | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 95-63-6     | 1,2,4-Trimethylbenzene      | 0.64  | U    | 1  | 0.64 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 135-98-8    | sec-Butylbenzene            | 0.66  | U    | 1  | 0.66 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 99-87-6     | p-Isopropyltoluene          | 0.62  | U    | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 541-73-1    | 1,3-Dichlorobenzene         | 1.70  | U    | 1  | 1.70 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 106-46-7    | 1,4-Dichlorobenzene         | 1.60  | U    | 1  | 1.60 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 104-51-8    | n-Butylbenzene              | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 95-50-1     | 1,2-Dichlorobenzene         | 1.50  | U    | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 96-12-8     | 1,2-Dibromo-3-Chloropropane | 1.80  | U    | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 120-82-1    | 1,2,4-Trichlorobenzene      | 3.00  | U    | 1  | 3.00 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 87-68-3     | Hexachlorobutadiene         | 1.90  | U    | 1  | 1.90 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 91-20-3     | Naphthalene                 | 2.60  | U    | 1  | 2.60 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 87-61-6     | 1,2,3-Trichlorobenzene      | 3.20  | U    | 1  | 3.20 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 628-63-7    | N-amyl acetate              | 0.97  | U    | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 74-88-4     | Methyl Iodide               | 0.91  | U    | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 107-05-1    | Allyl chloride              | 0.78  | U    | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 110-57-6    | trans-1,4-Dichloro-2-butene | 1.10  | U    | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |
| 126-98-7    | Methacrylonitrile           | 1.80  | U    | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 09:13 | VY110625 |



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

## Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBL01

Lab Sample ID: VY1106SBL01

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number                | Parameter              | Conc.             | Qua. | DF | MDL      | LOQ / CRQL | Units   | Date Ana.      | BatchID  |
|---------------------------|------------------------|-------------------|------|----|----------|------------|---------|----------------|----------|
| 108-20-3                  | Diisopropyl ether      | 0.55              | U    | 1  | 0.55     | 5.00       | ug/Kg   | 11/06/25 09:13 | VY110625 |
| 123-91-1                  | 1,4-Dioxane            | 48.1              | U    | 1  | 48.1     | 100        | ug/Kg   | 11/06/25 09:13 | VY110625 |
| <b>SURROGATES</b>         |                        |                   |      |    |          |            |         |                |          |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 59.7              |      |    | 63 - 155 | 119%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 51.2              |      |    | 70 - 134 | 102%       | SPK: 50 |                |          |
| 2037-26-5                 | Toluene-d8             | 48.8              |      |    | 74 - 123 | 98%        | SPK: 50 |                |          |
| 460-00-4                  | 4-Bromofluorobenzene   | 41.9              |      |    | 17 - 146 | 84%        | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 51.2              |      |    | 70 - 134 | 102%       | SPK: 50 |                |          |
| <b>INTERNAL STANDARDS</b> |                        | <b>Area Count</b> |      |    |          |            |         |                |          |
| 363-72-4                  | Pentafluorobenzene     | 740000            |      |    |          |            |         |                |          |
| 540-36-3                  | 1,4-Difluorobenzene    | 1300000           |      |    |          |            |         |                |          |
| 3114-55-4                 | Chlorobenzene-d5       | 1090000           |      |    |          |            |         |                |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 415000            |      |    |          |            |         |                |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023693.D  
 Acq On : 06 Nov 2025 09:13  
 Operator : SY/MD  
 Sample : VY1106SBL01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBL01

Quant Time: Nov 07 04:12:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 739742   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 1301529  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 1087747  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152  | 415434   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 376910   | 59.731   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 119.460% |
| 35) Dibromofluoromethane    | 7.634  | 113   | 416456   | 51.201   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 102.400% |
| 50) Toluene-d8              | 10.109 | 98    | 1479065  | 48.816   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 97.640%  |
| 62) 4-Bromofluorobenzene    | 12.408 | 95    | 410618   | 41.907   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 83.820%  |

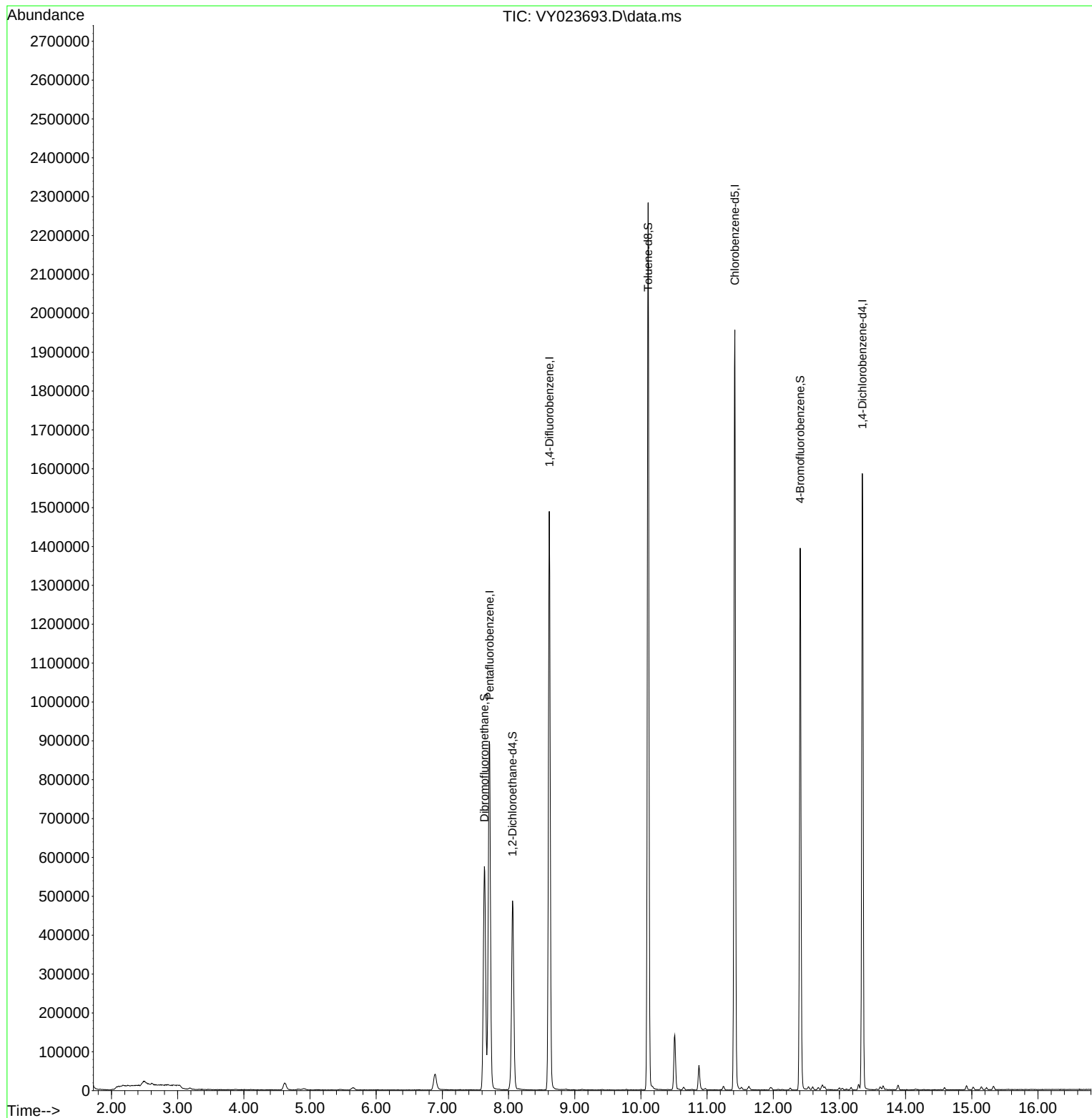
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

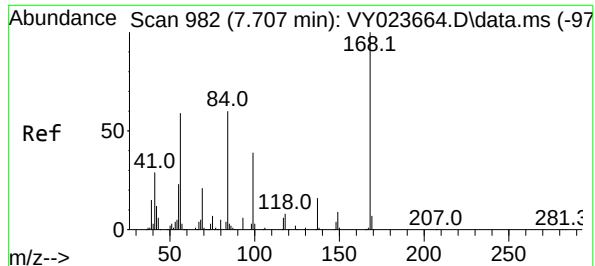
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023693.D  
Acq On : 06 Nov 2025 09:13  
Operator : SY/MD  
Sample : VY1106SBL01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBL01

Quant Time: Nov 07 04:12:17 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

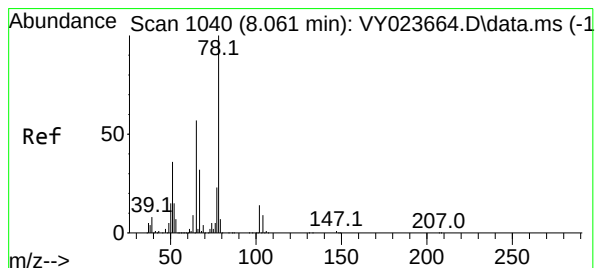
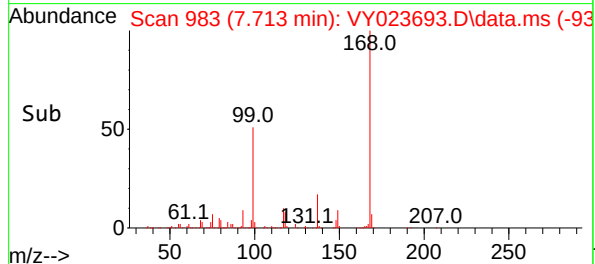
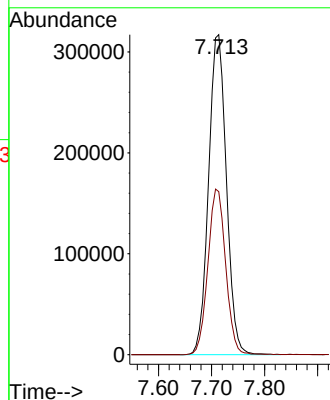
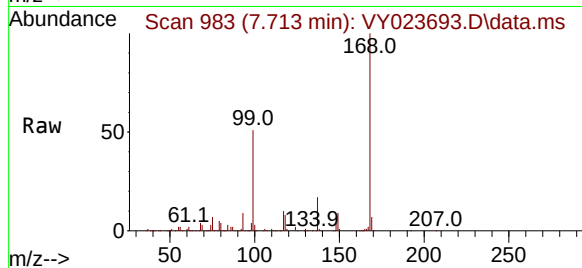




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023693.D  
Acq: 06 Nov 2025 09:13

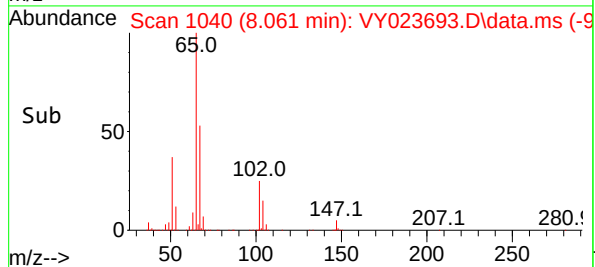
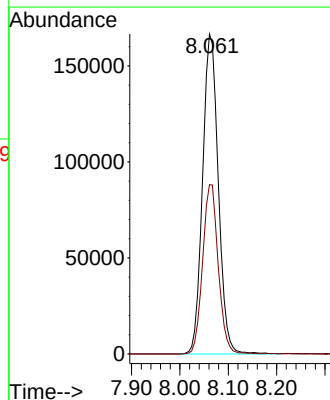
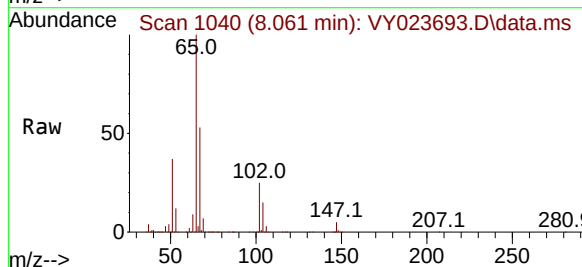
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBL01

Tgt Ion:168 Resp: 739742  
Ion Ratio Lower Upper  
168 100  
99 51.0 41.0 61.4

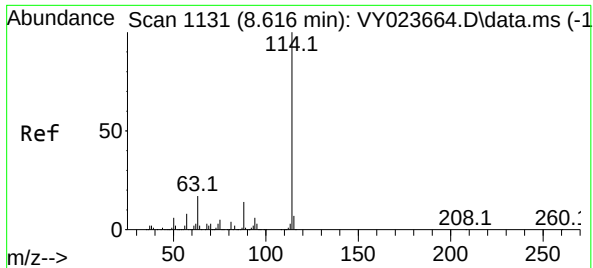


#33  
1,2-Dichloroethane-d4  
Concen: 59.731 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. 0.000 min  
Lab File: VY023693.D  
Acq: 06 Nov 2025 09:13

Tgt Ion: 65 Resp: 376910  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 107.4







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023693.D

Acq: 06 Nov 2025 09:13

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBL01

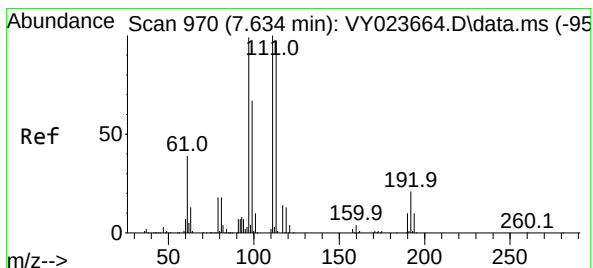
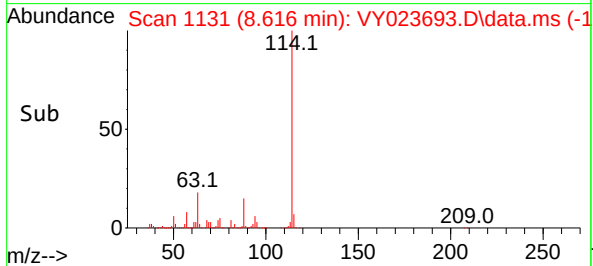
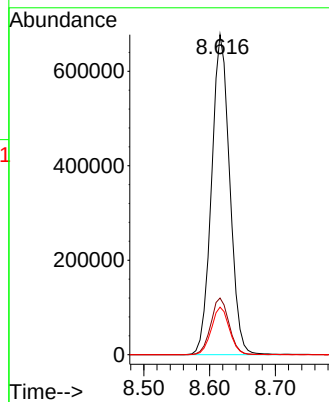
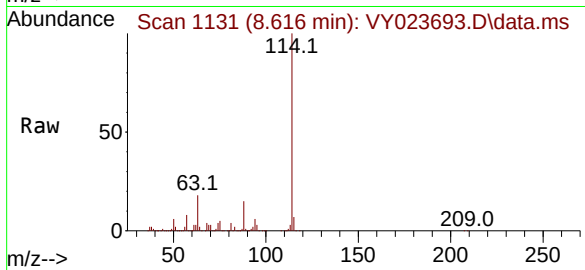
Tgt Ion:114 Resp: 1301529

Ion Ratio Lower Upper

114 100

63 17.7 0.0 33.8

88 14.8 0.0 29.0



#35

Dibromofluoromethane

Concen: 51.201 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY023693.D

Acq: 06 Nov 2025 09:13

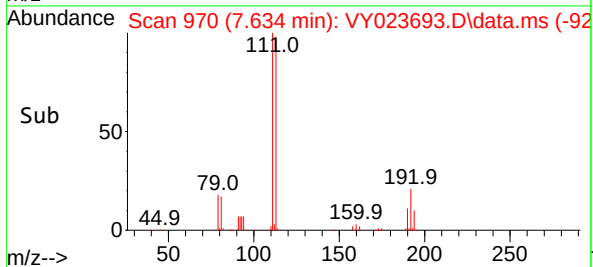
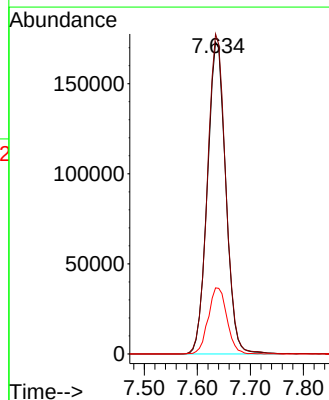
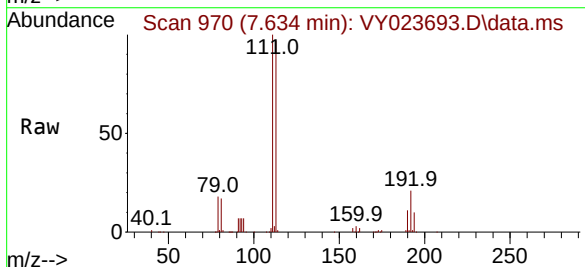
Tgt Ion:113 Resp: 416456

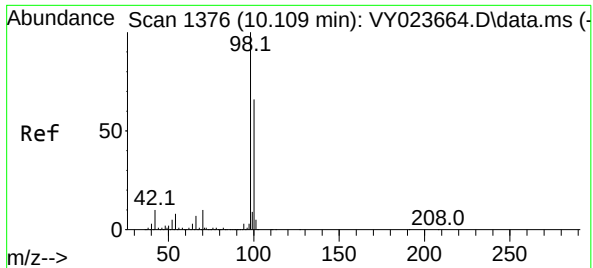
Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

192 21.6 17.3 25.9

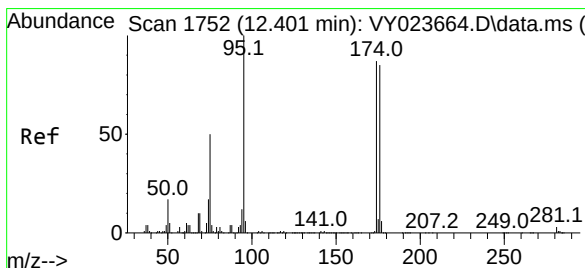
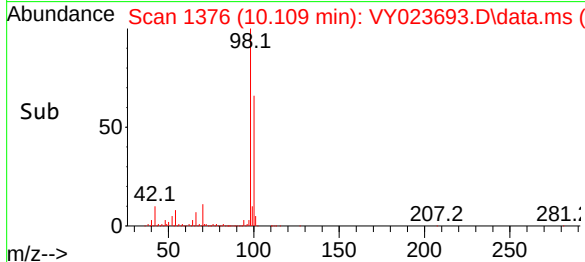
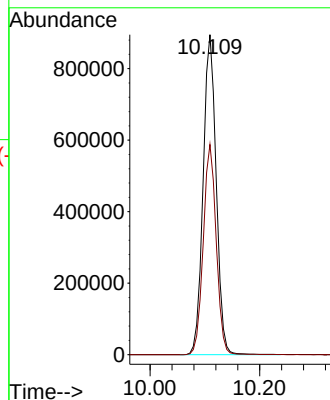
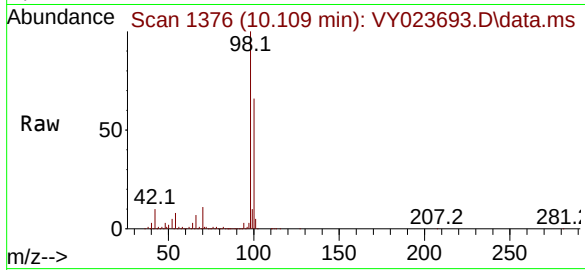




#50  
Toluene-d8  
Concen: 48.816 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY023693.D  
Acq: 06 Nov 2025 09:13

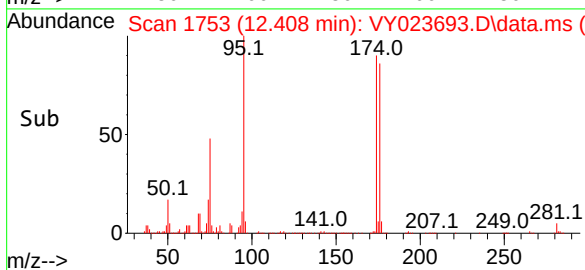
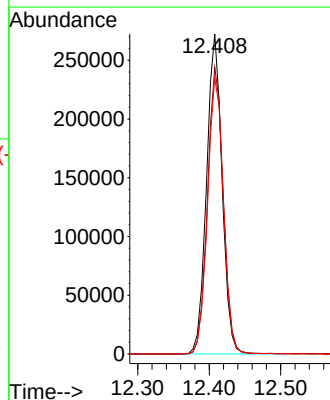
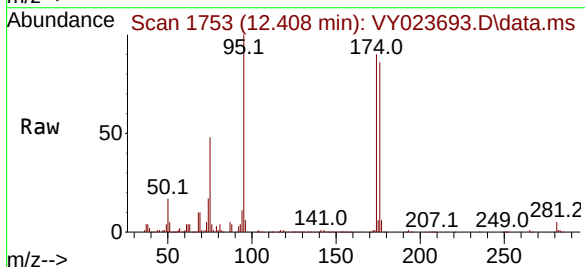
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBL01

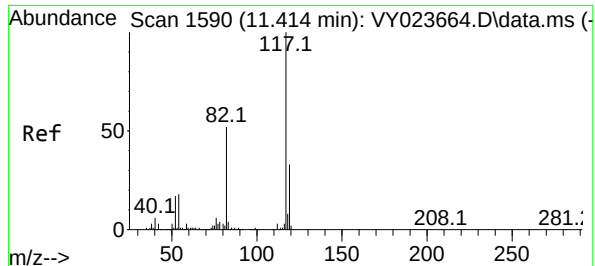
Tgt Ion: 98 Resp: 1479065  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 41.907 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023693.D  
Acq: 06 Nov 2025 09:13

Tgt Ion: 95 Resp: 410618  
Ion Ratio Lower Upper  
95 100  
174 92.0 0.0 184.8  
176 88.2 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023693.D

Acq: 06 Nov 2025 09:13

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBL01

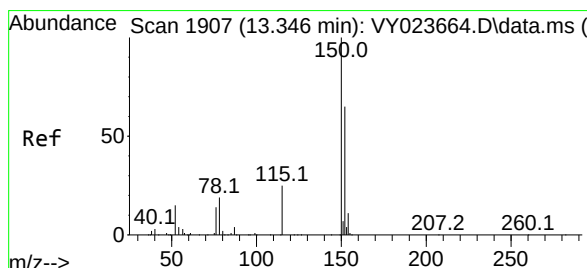
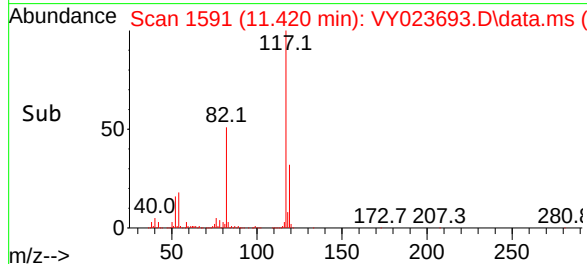
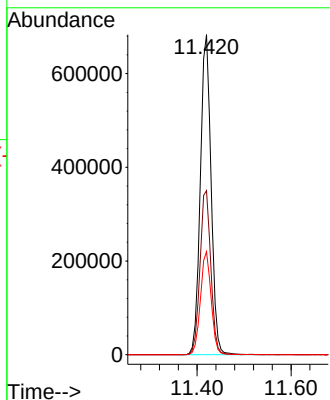
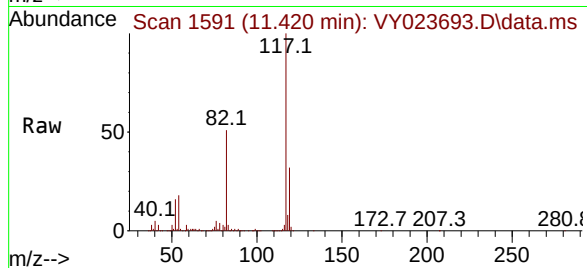
Tgt Ion:117 Resp: 1087747

Ion Ratio Lower Upper

117 100

82 51.3 41.2 61.8

119 32.2 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023693.D

Acq: 06 Nov 2025 09:13

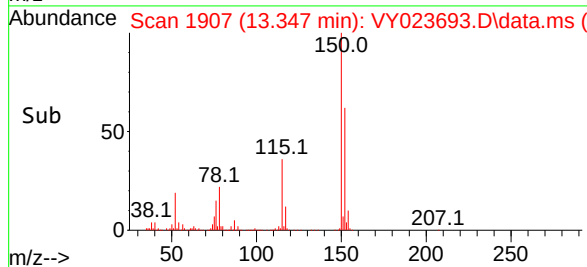
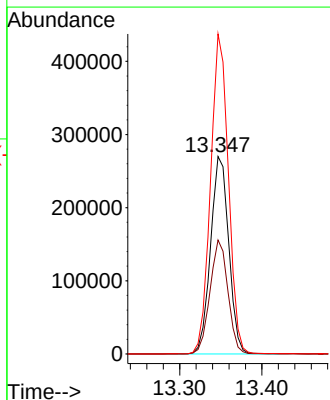
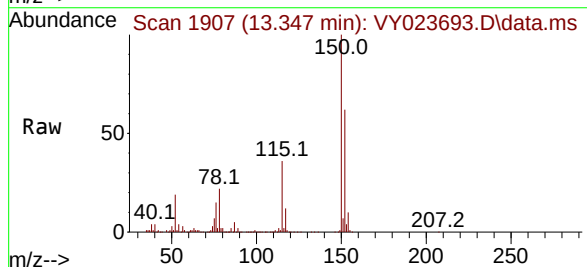
Tgt Ion:152 Resp: 415434

Ion Ratio Lower Upper

152 100

115 56.7 27.5 82.5

150 158.3 0.0 349.0



### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBS01

Lab Sample ID: VY1106SBS01

Analytical Method: 8260D

Level: LOW

Sample Wt/Vol: 5 g

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number     | Parameter                      | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|----------------|--------------------------------|-------|------|----|------|------------|-------|----------------|----------|
| <b>TARGETS</b> |                                |       |      |    |      |            |       |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 22.0  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 74-87-3        | Chloromethane                  | 21.4  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-01-4        | Vinyl Chloride                 | 20.6  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 141-78-6       | Ethyl Acetate                  | 21.2  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-21-4       | Isopropyl Acetate              | 20.6  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 74-83-9        | Bromomethane                   | 21.4  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-00-3        | Chloroethane                   | 20.3  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 109-99-9       | Tetrahydrofuran                | 110   |      | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-69-4        | Trichlorofluoromethane         | 20.6  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 20.7  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-65-0        | Tert butyl alcohol             | 130   |      | 1  | 13.7 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 60-29-7        | Diethyl Ether                  | 20.4  |      | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-35-4        | 1,1-Dichloroethene             | 20.4  |      | 1  | 1.00 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 107-02-8       | Acrolein                       | 110   |      | 1  | 8.80 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 107-13-1       | Acrylonitrile                  | 110   |      | 1  | 5.00 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 67-64-1        | Acetone                        | 120   |      | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-15-0        | Carbon Disulfide               | 21.0  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 1634-04-4      | Methyl tert-butyl Ether        | 20.4  |      | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 79-20-9        | Methyl Acetate                 | 21.3  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-09-2        | Methylene Chloride             | 22.0  |      | 1  | 3.50 | 10.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 20.9  |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-05-4       | Vinyl Acetate                  | 110   |      | 1  | 4.90 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-34-3        | 1,1-Dichloroethane             | 20.9  |      | 1  | 0.80 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 110-82-7       | Cyclohexane                    | 20.8  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 78-93-3        | 2-Butanone                     | 110   |      | 1  | 6.50 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 56-23-5        | Carbon Tetrachloride           | 20.5  |      | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 594-20-7       | 2,2-Dichloropropane            | 21.0  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 20.2  |      | 1  | 0.75 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 74-97-5        | Bromochloromethane             | 21.4  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 67-66-3        | Chloroform                     | 20.6  |      | 1  | 0.84 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 20.4  |      | 1  | 0.93 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-87-2       | Methylcyclohexane              | 19.7  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 563-58-6       | 1,1-Dichloropropene            | 20.4  |      | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 71-43-2        | Benzene                        | 20.5  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 107-06-2       | 1,2-Dichloroethane             | 20.7  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 79-01-6        | Trichloroethene                | 20.0  |      | 1  | 0.81 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 78-87-5        | 1,2-Dichloropropane            | 20.8  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 74-95-3        | Dibromomethane                 | 20.7  |      | 1  | 0.89 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-27-4        | Bromodichloromethane           | 20.7  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 110   |      | 1  | 3.60 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 80-62-6        | Methyl methacrylate            | 20.5  |      | 1  | 0.74 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-88-3       | Toluene                        | 20.7  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 20.4  |      | 1  | 0.65 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |

### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBS01

Lab Sample ID: VY1106SBS01

Analytical Method: 8260D

Level: LOW

Sample Wt/Vol: 5 g

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number  | Parameter                   | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|-------------|-----------------------------|-------|------|----|------|------------|-------|----------------|----------|
| 10061-01-5  | cis-1,3-Dichloropropene     | 20.6  |      | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 79-00-5     | 1,1,2-Trichloroethane       | 20.8  |      | 1  | 0.92 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 142-28-9    | 1,3-Dichloropropane         | 20.6  |      | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 110-75-8    | 2-Chloroethyl Vinyl ether   | 98.7  |      | 1  | 3.80 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 591-78-6    | 2-Hexanone                  | 110   |      | 1  | 3.70 | 25.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 124-48-1    | Dibromochloromethane        | 20.1  |      | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 106-93-4    | 1,2-Dibromoethane           | 20.8  |      | 1  | 0.88 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 127-18-4    | Tetrachloroethene           | 19.8  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-90-7    | Chlorobenzene               | 19.9  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane   | 19.8  |      | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 67-72-1     | Hexachloroethane            | 19.2  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 100-41-4    | Ethyl Benzene               | 19.9  |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 179601-23-1 | m/p-Xylenes                 | 40.1  |      | 1  | 1.20 | 10.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 1330-20-7   | Total Xylenes               | 59.7  |      | 1  | 2.02 | 15.0       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 95-47-6     | o-Xylene                    | 19.6  |      | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 100-42-5    | Styrene                     | 19.8  |      | 1  | 0.71 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 75-25-2     | Bromoform                   | 19.9  |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 98-82-8     | Isopropylbenzene            | 19.6  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane   | 20.5  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 96-18-4     | 1,2,3-Trichloropropane      | 20.5  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-86-1    | Bromobenzene                | 19.3  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 103-65-1    | n-propylbenzene             | 20.2  |      | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 95-49-8     | 2-Chlorotoluene             | 19.9  |      | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 108-67-8    | 1,3,5-Trimethylbenzene      | 20.2  |      | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 106-43-4    | 4-Chlorotoluene             | 20.4  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 98-06-6     | tert-Butylbenzene           | 19.5  |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 95-63-6     | 1,2,4-Trimethylbenzene      | 20.1  |      | 1  | 0.64 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 135-98-8    | sec-Butylbenzene            | 19.9  |      | 1  | 0.66 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 99-87-6     | p-Isopropyltoluene          | 19.7  |      | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 541-73-1    | 1,3-Dichlorobenzene         | 19.5  |      | 1  | 1.70 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 106-46-7    | 1,4-Dichlorobenzene         | 19.4  |      | 1  | 1.60 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 104-51-8    | n-Butylbenzene              | 19.5  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 95-50-1     | 1,2-Dichlorobenzene         | 19.7  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 96-12-8     | 1,2-Dibromo-3-Chloropropane | 20.0  |      | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 120-82-1    | 1,2,4-Trichlorobenzene      | 18.9  |      | 1  | 3.00 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 87-68-3     | Hexachlorobutadiene         | 18.9  |      | 1  | 1.90 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 91-20-3     | Naphthalene                 | 19.2  |      | 1  | 2.60 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 87-61-6     | 1,2,3-Trichlorobenzene      | 19.6  |      | 1  | 3.20 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 628-63-7    | N-amyl acetate              | 19.2  |      | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 74-88-4     | Methyl Iodide               | 18.1  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 107-05-1    | Allyl chloride              | 20.8  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 110-57-6    | trans-1,4-Dichloro-2-butene | 19.1  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |
| 126-98-7    | Methacrylonitrile           | 16.8  |      | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 09:44 | VY110625 |



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

## Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBS01

Lab Sample ID: VY1106SBS01

Analytical Method: 8260D

Sample Wt/Vol: 5 g

Level: LOW

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number                | Parameter              | Conc.             | Qua. | DF | MDL      | LOQ / CRQL | Units   | Date Ana.      | BatchID  |
|---------------------------|------------------------|-------------------|------|----|----------|------------|---------|----------------|----------|
| 108-20-3                  | Diisopropyl ether      | 21.5              |      | 1  | 0.55     | 5.00       | ug/Kg   | 11/06/25 09:44 | VY110625 |
| 123-91-1                  | 1,4-Dioxane            | 410               |      | 1  | 48.1     | 100        | ug/Kg   | 11/06/25 09:44 | VY110625 |
| <b>SURROGATES</b>         |                        |                   |      |    |          |            |         |                |          |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 52.0              |      |    | 63 - 155 | 104%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 50.5              |      |    | 70 - 134 | 101%       | SPK: 50 |                |          |
| 2037-26-5                 | Toluene-d8             | 51.5              |      |    | 74 - 123 | 103%       | SPK: 50 |                |          |
| 460-00-4                  | 4-Bromofluorobenzene   | 51.6              |      |    | 17 - 146 | 103%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 50.5              |      |    | 70 - 134 | 101%       | SPK: 50 |                |          |
| <b>INTERNAL STANDARDS</b> |                        |                   |      |    |          |            |         |                |          |
|                           |                        | <b>Area Count</b> |      |    |          |            |         |                |          |
| 363-72-4                  | Pentafluorobenzene     | 547000            |      |    |          |            |         |                |          |
| 540-36-3                  | 1,4-Difluorobenzene    | 822000            |      |    |          |            |         |                |          |
| 3114-55-4                 | Chlorobenzene-d5       | 728000            |      |    |          |            |         |                |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 371000            |      |    |          |            |         |                |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023694.D  
 Acq On : 06 Nov 2025 09:44  
 Operator : SY/MD  
 Sample : VY1106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:12:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 546965              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 822052              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 728273              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 370507              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 242468              | 51.968  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.940% |         |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 259210              | 50.457  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 100.920% |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 985886              | 51.518  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 103.040% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 319171              | 51.574  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.140% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 78967               | 21.994  | ug/l   | 99       |
| 3) Chloromethane             | 2.074          | 50   | 107661              | 21.428  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.208          | 62   | 134392              | 20.556  | ug/l   | 97       |
| 5) Bromomethane              | 2.592          | 94   | 117581              | 21.380  | ug/l   | 95       |
| 6) Chloroethane              | 2.739          | 64   | 91753               | 20.305  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 189562              | 20.587  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.452          | 74   | 50370               | 20.399  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 104966              | 20.691  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 108530              | 18.117  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.866          | 59   | 38479               | 127.903 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 99690               | 20.399  | ug/l   | 99       |
| 13) Acrolein                 | 3.653          | 56   | 41937               | 108.454 | ug/l   | 100      |
| 14) Allyl chloride           | 4.385          | 41   | 123982              | 20.843  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.061          | 53   | 101471              | 107.532 | ug/l   | 100      |
| 16) Acetone                  | 3.867          | 43   | 134180              | 115.698 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.110          | 76   | 315546              | 21.038  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.385          | 43   | 54558               | 21.328  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 231620              | 20.440  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.616          | 84   | 123256              | 22.015  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 115227              | 20.912  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.019          | 45   | 284548              | 21.468  | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.964          | 43   | 754551              | 106.680 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 184976              | 20.949  | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 153816              | 114.713 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 170334              | 20.971  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 127356              | 20.238  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.250          | 49   | 72254               | 21.371  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 75848               | 106.214 | ug/l   | 98       |
| 30) Chloroform               | 7.421          | 83   | 203045              | 20.610  | ug/l   | 100      |
| 31) Cyclohexane              | 7.707          | 56   | 160093              | 20.819  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.616          | 97   | 179418              | 20.376  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 140152              | 20.416  | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.988          | 43   | 56444               | 21.240  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.817          | 117  | 165543              | 20.467  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.109          | 83   | 172882              | 19.710  | ug/l   | 94       |
| 40) Benzene                  | 8.079          | 78   | 444410              | 20.538  | ug/l   | 100      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023694.D  
 Acq On : 06 Nov 2025 09:44  
 Operator : SY/MD  
 Sample : VY1106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:12:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 24395    | 16.817  | ug/l # | 70       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 113361   | 20.708  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 102806   | 20.589  | ug/l   | 99       |
| 44) Trichloroethene           | 8.866  | 130  | 124443   | 20.023  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 99224    | 20.778  | ug/l   | 98       |
| 46) Dibromomethane            | 9.231  | 93   | 61277    | 20.709  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.420  | 83   | 154311   | 20.684  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.219  | 41   | 48437    | 20.532  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 12521    | 413.484 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 281999   | 106.199 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 286343   | 20.728  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 128491   | 20.355  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 155449   | 20.554  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 82212    | 20.790  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 84068    | 19.296  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 129138   | 20.589  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 197363   | 98.718  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.762 | 43   | 210576   | 108.695 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 109268   | 20.111  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 77104    | 20.777  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 150279   | 19.825  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.444 | 112  | 315324   | 19.889  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 110820   | 19.767  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 510207   | 19.883  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.627 | 106  | 411539   | 40.142  | ug/l   | 99       |
| 69) o-Xylene                  | 11.957 | 106  | 185778   | 19.603  | ug/l   | 97       |
| 70) Styrene                   | 11.969 | 104  | 309544   | 19.796  | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 65110    | 19.885  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 486116   | 19.617  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 80659    | 19.225  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 80993    | 20.465  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 61459m   | 20.496  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 124256   | 19.331  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.597 | 91   | 587824   | 20.167  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 336096   | 19.871  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 406541   | 20.192  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 25406    | 19.148  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 356437   | 20.434  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 357699   | 19.507  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 400981   | 20.108  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 527410   | 19.941  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 441370   | 19.713  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 246260   | 19.465  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 241645   | 19.444  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.615 | 91   | 380306   | 19.533  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 92548    | 19.234  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 214611   | 19.684  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 12163    | 19.960  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 117937   | 18.912  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 77357    | 18.932  | ug/l   | 98       |
| 95) Naphthalene               | 15.145 | 128  | 170346   | 19.242  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 101868   | 19.551  | ug/l   | 99       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023694.D  
Acq On : 06 Nov 2025 09:44  
Operator : SY/MD  
Sample : VY1106SBS01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:12:38 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

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

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

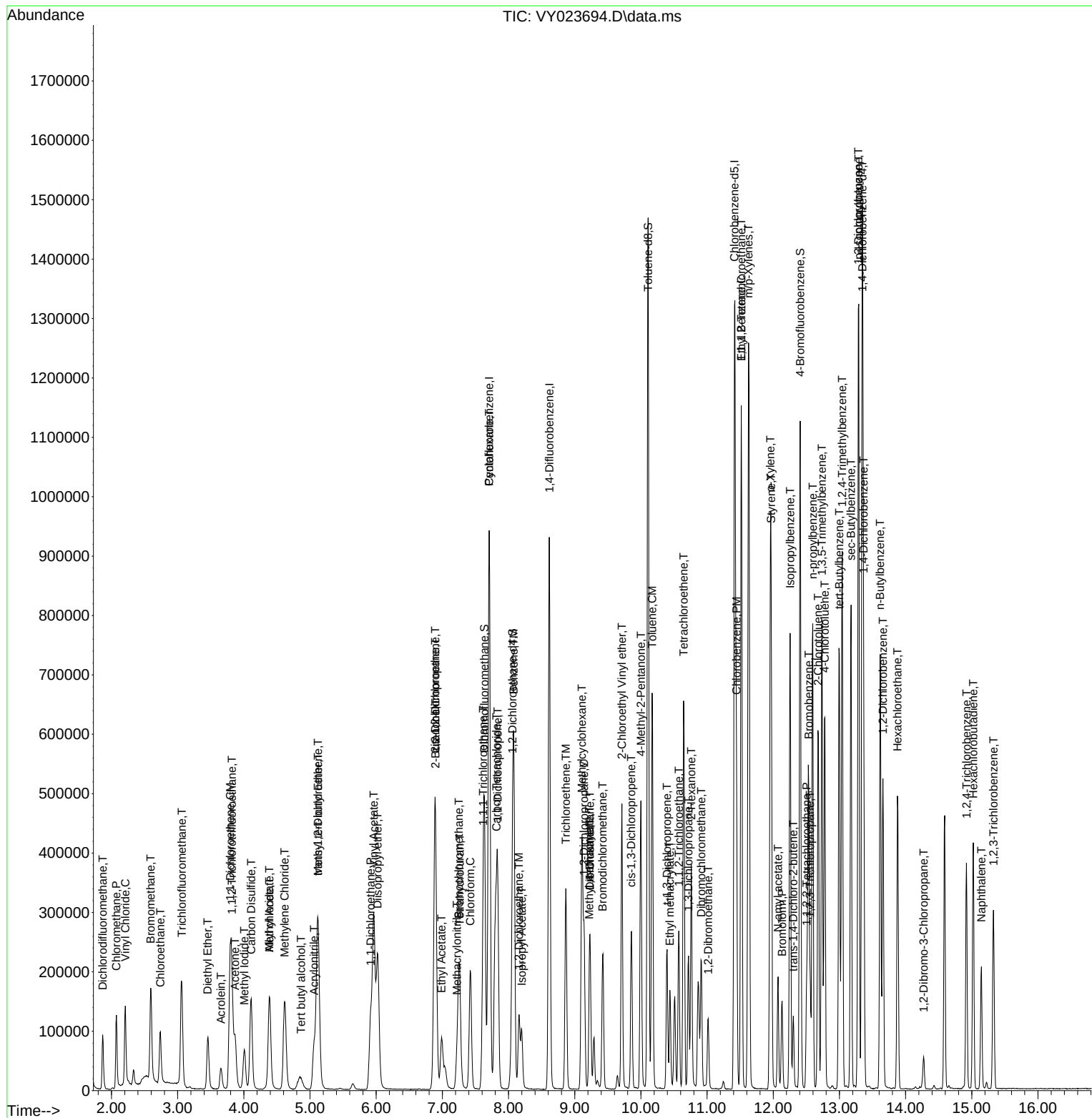
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 Data File : VY023694.D  
 Acq On : 06 Nov 2025 09:44  
 Operator : SY/MD  
 Sample : VY1106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

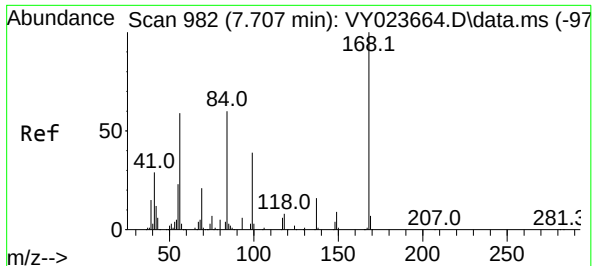
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01

### Manual Integrations APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

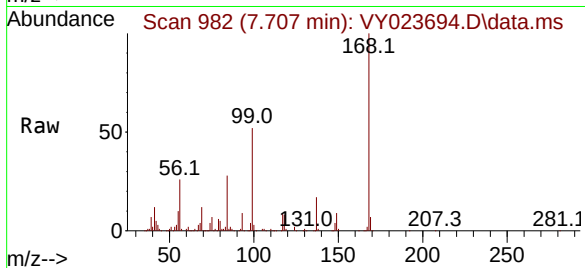
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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

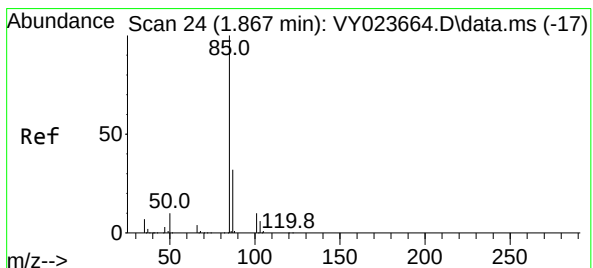
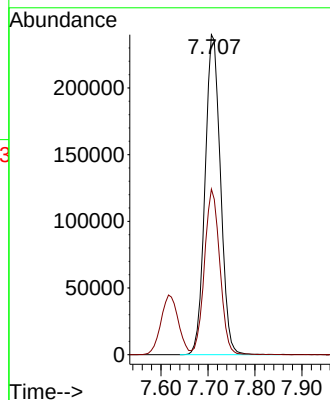
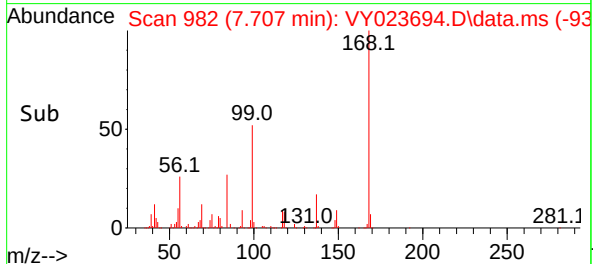
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:168 Resp: 54696  
Ion Ratio Lower Upper  
168 100  
99 51.7 41.0 61.4

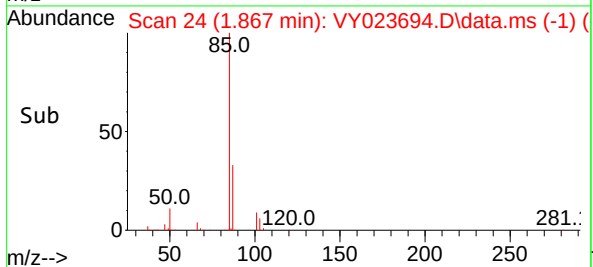
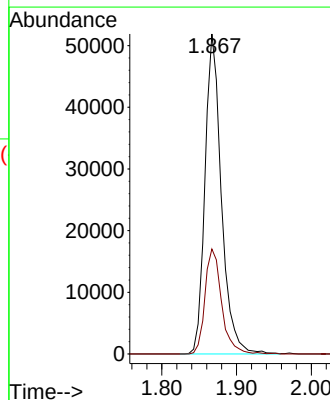
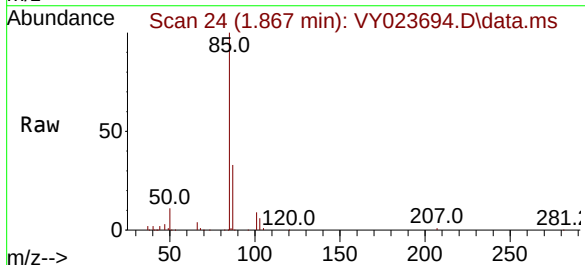
Manual Integrations  
APPROVED

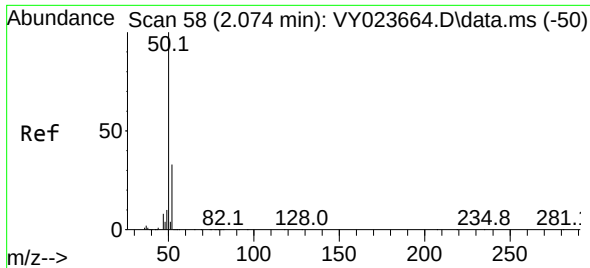
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#2  
Dichlorodifluoromethane  
Concen: 21.994 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

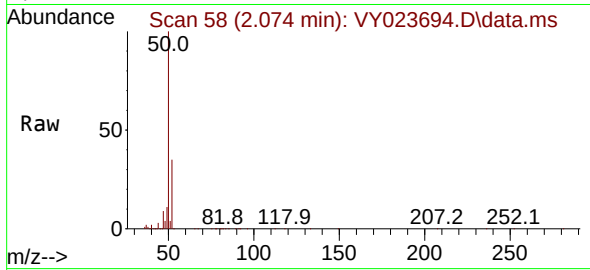
Tgt Ion: 85 Resp: 78967  
Ion Ratio Lower Upper  
85 100  
87 32.8 16.2 48.6





#3  
Chloromethane  
Concen: 21.428 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

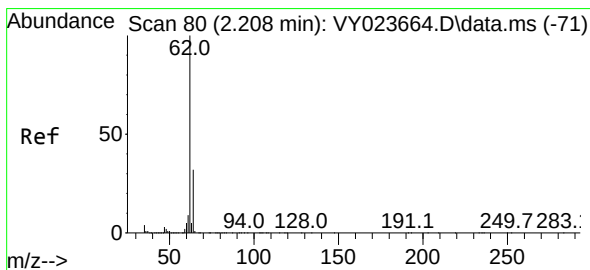
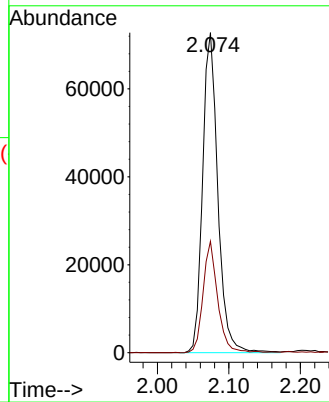
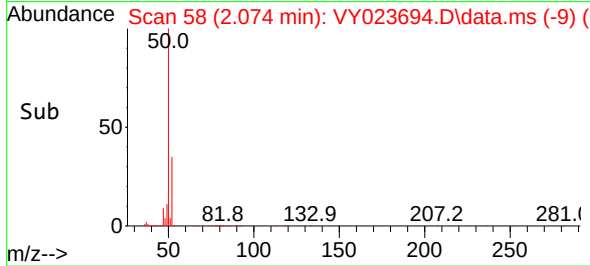
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



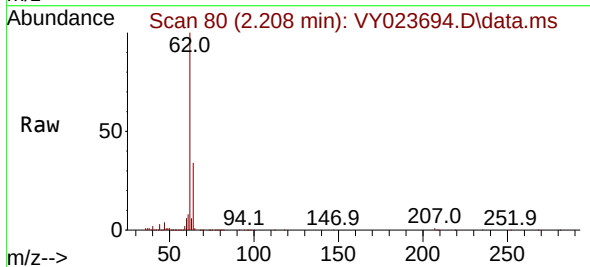
Tgt Ion: 50 Resp: 107663  
Ion Ratio Lower Upper  
50 100  
52 34.8 26.5 39.7

Manual Integrations  
APPROVED

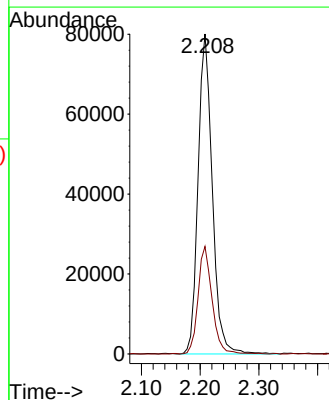
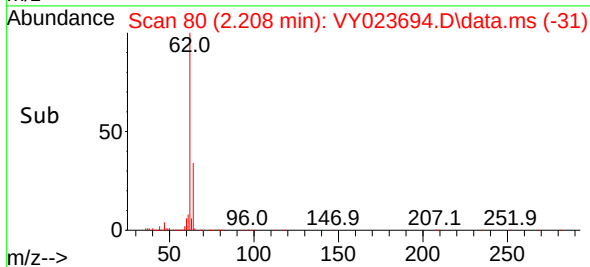
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

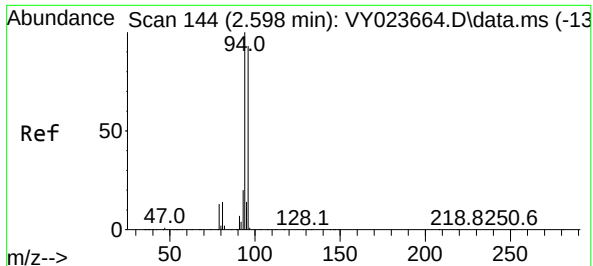


#4  
Vinyl Chloride  
Concen: 20.556 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



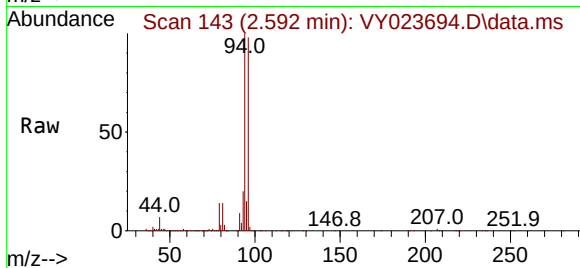
Tgt Ion: 62 Resp: 134392  
Ion Ratio Lower Upper  
62 100  
64 33.6 25.7 38.5





#5  
Bromomethane  
Concen: 21.380 ug/l  
RT: 2.592 min Scan# 144  
Delta R.T. -0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

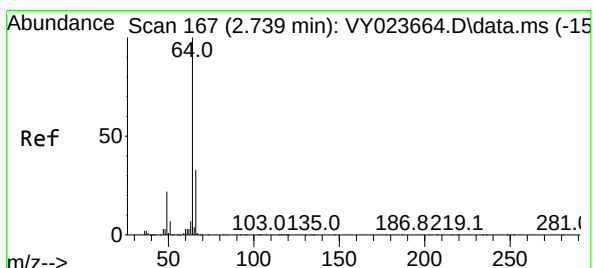
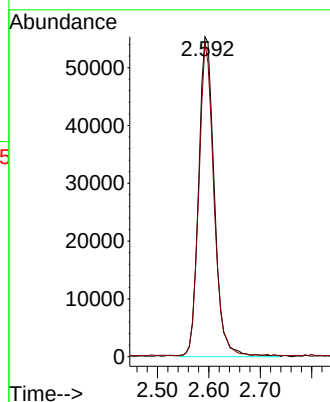
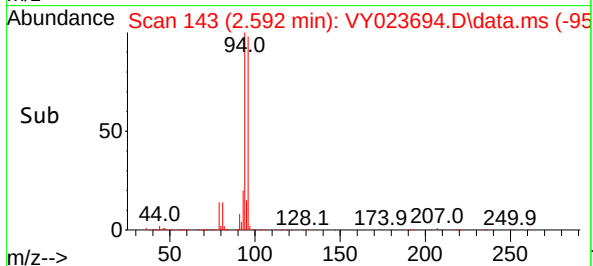
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



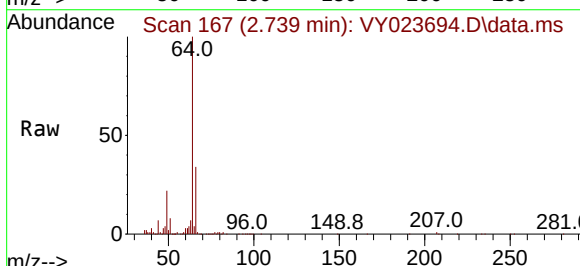
Tgt Ion: 94 Resp: 11758  
Ion Ratio Lower Upper  
94 100  
96 97.7 74.4 111.6

Manual Integrations  
APPROVED

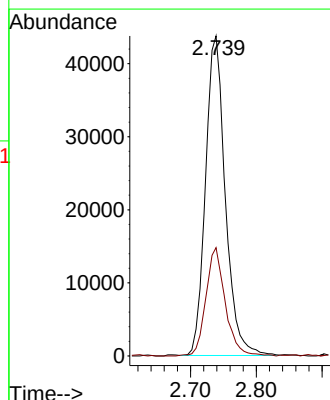
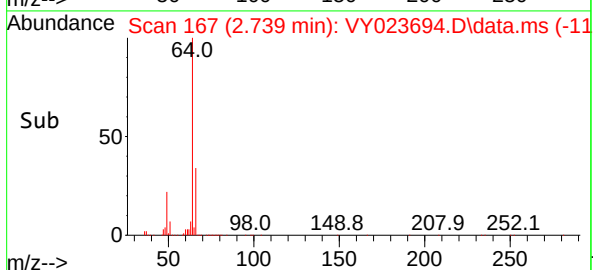
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

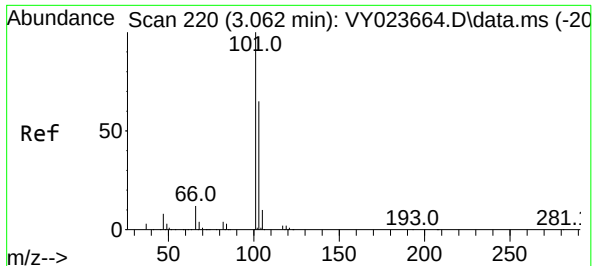


#6  
Chloroethane  
Concen: 20.305 ug/l  
RT: 2.739 min Scan# 167  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



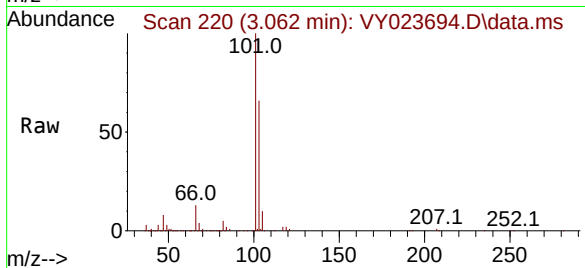
Tgt Ion: 64 Resp: 91753  
Ion Ratio Lower Upper  
64 100  
66 33.7 26.2 39.4





#7  
Trichlorofluoromethane  
Concen: 20.587 ug/l  
RT: 3.062 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

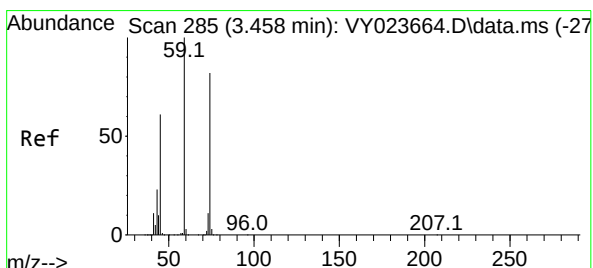
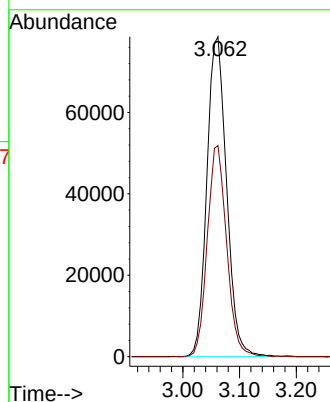
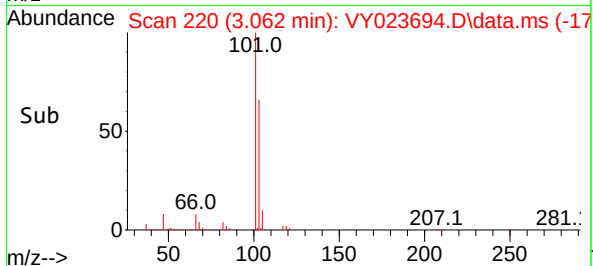
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:101 Resp: 189562  
Ion Ratio Lower Upper  
101 100  
103 65.9 52.1 78.1

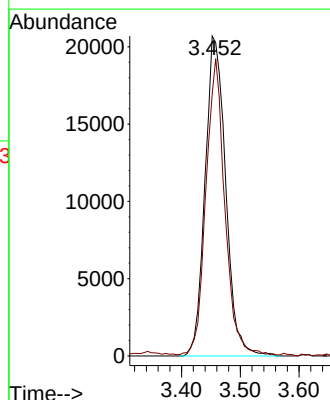
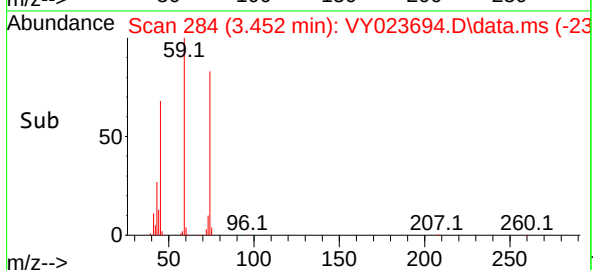
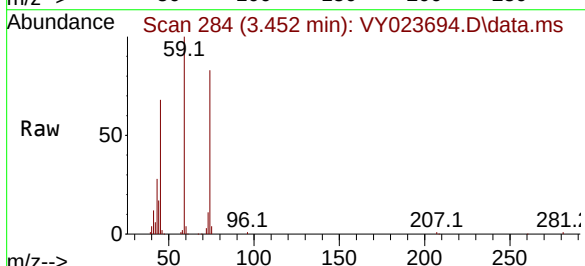
Manual Integrations  
APPROVED

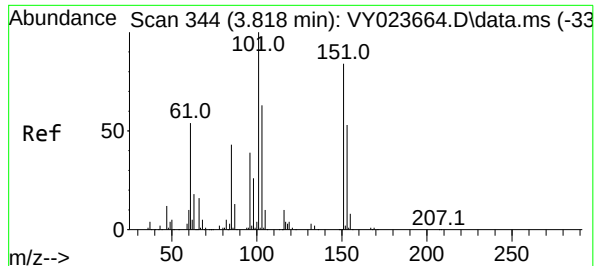
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#8  
Diethyl Ether  
Concen: 20.399 ug/l  
RT: 3.452 min Scan# 284  
Delta R.T. -0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Tgt Ion: 74 Resp: 50370  
Ion Ratio Lower Upper  
74 100  
45 84.9 40.6 121.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.691 ug/l

RT: 3.818 min Scan# 344

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:101 Resp: 104960

Ion Ratio Lower Upper

101 100

85 43.2 34.4 51.6

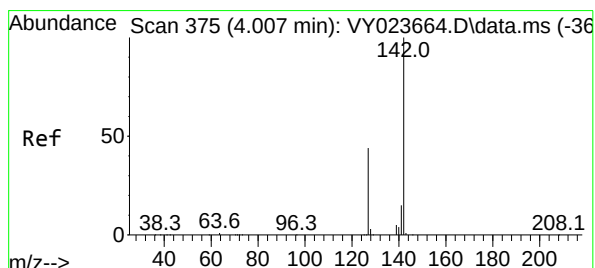
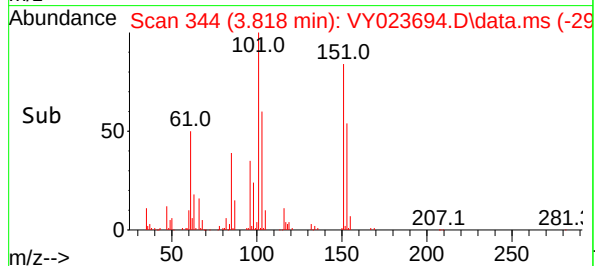
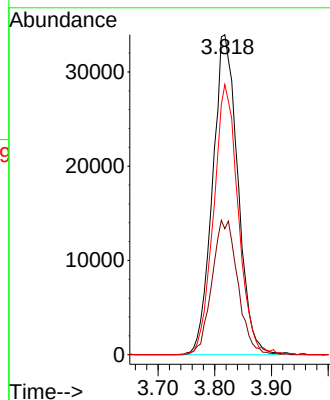
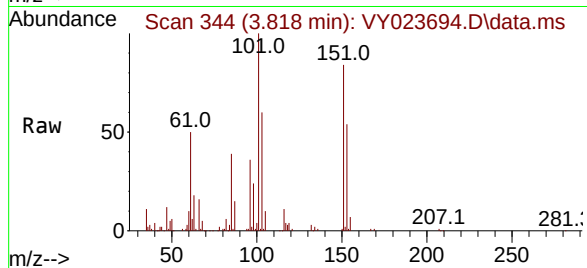
151 82.6 65.6 98.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#10

Methyl Iodide

Concen: 18.117 ug/l

RT: 4.007 min Scan# 375

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

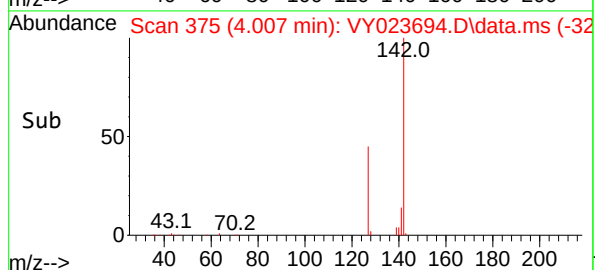
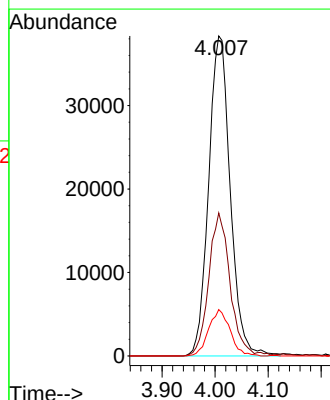
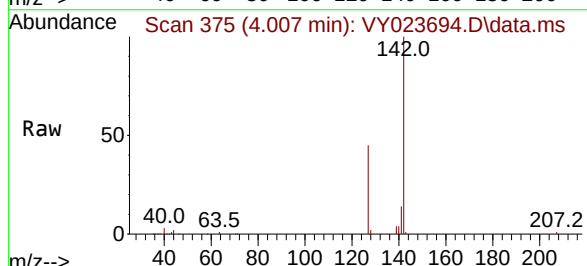
Tgt Ion:142 Resp: 108530

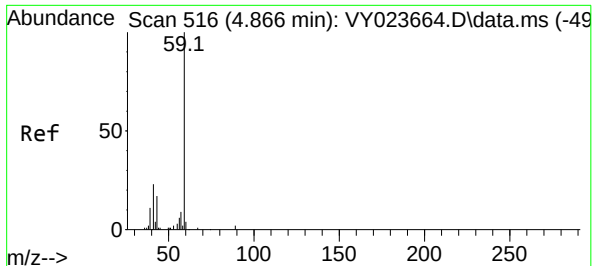
Ion Ratio Lower Upper

142 100

127 44.3 34.6 51.8

141 14.4 11.6 17.4





#11

Tert butyl alcohol

Concen: 127.903 ug/l

RT: 4.866 min Scan# 516

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 59 Resp: 38479

Ion Ratio Lower Upper

59 100

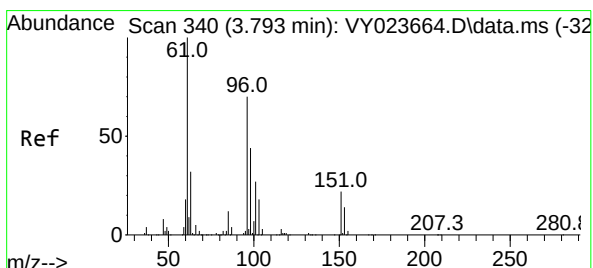
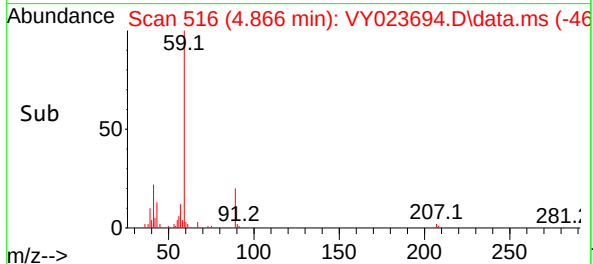
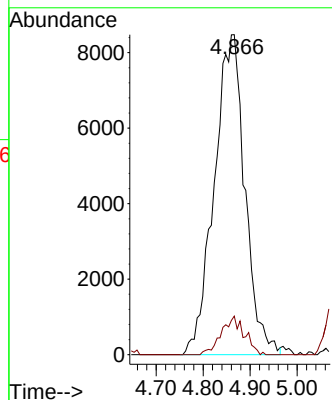
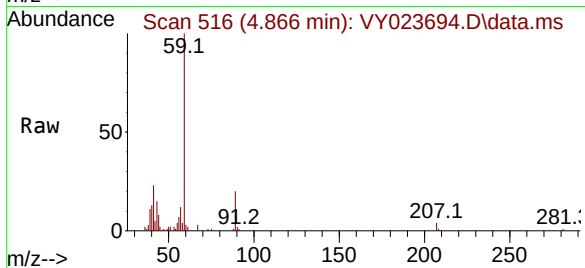
57 9.0 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#12

1,1-Dichloroethene

Concen: 20.399 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

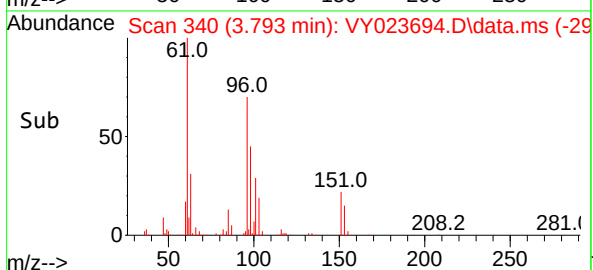
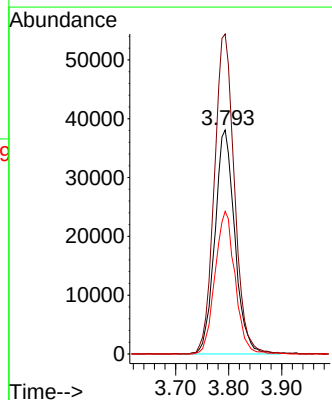
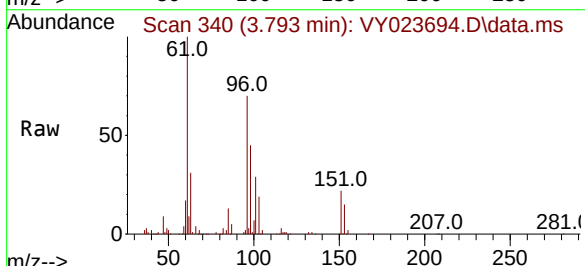
Tgt Ion: 96 Resp: 99690

Ion Ratio Lower Upper

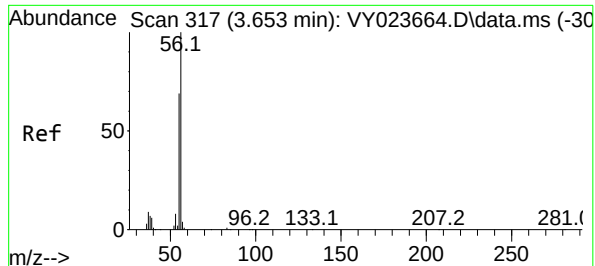
96 100

61 142.8 114.0 171.0

98 63.6 50.2 75.2







#13

Acrolein

Concen: 108.454 ug/l

RT: 3.653 min Scan# 317

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 56 Resp: 4193

Ion Ratio Lower Upper

56 100

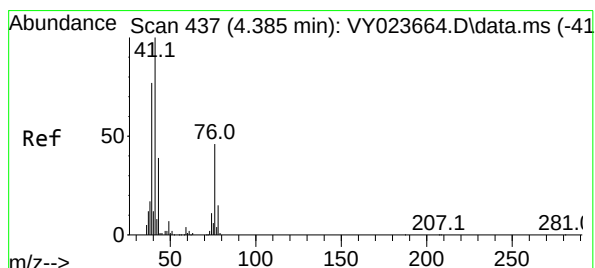
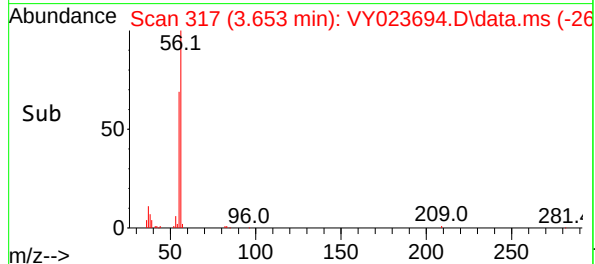
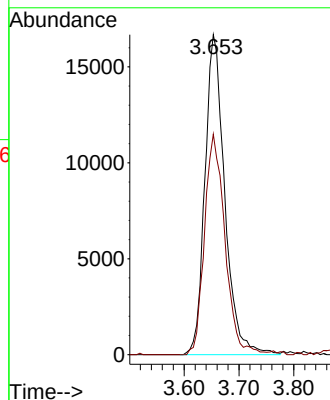
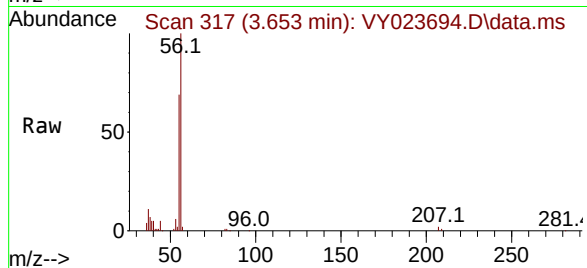
55 70.9 56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#14

Allyl chloride

Concen: 20.843 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

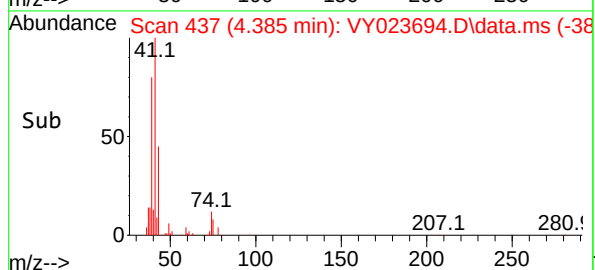
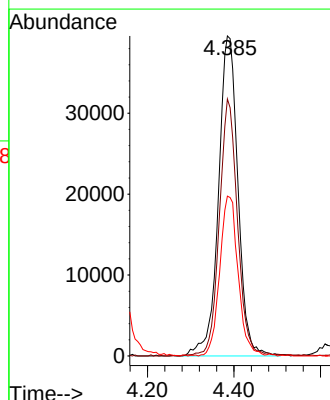
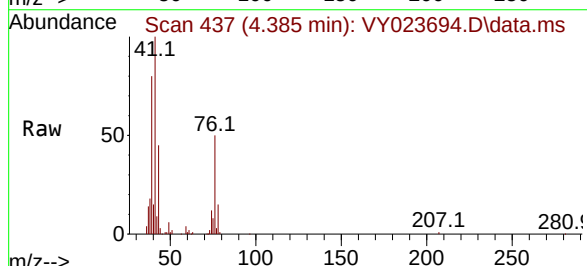
Tgt Ion: 41 Resp: 123982

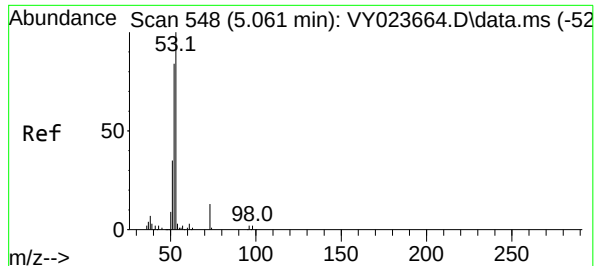
Ion Ratio Lower Upper

41 100

39 75.0 60.4 90.6

76 46.9 38.0 57.0





#15

Acrylonitrile

Concen: 107.532 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023694.D

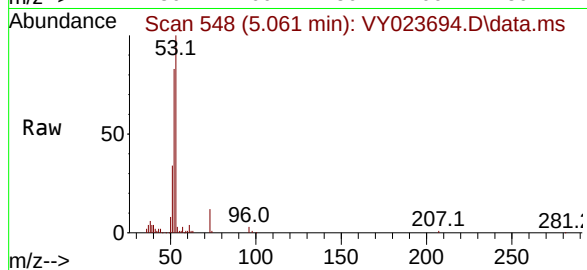
Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 53 Resp: 10147

Ion Ratio Lower Upper

53 100

52 81.0 64.9 97.3

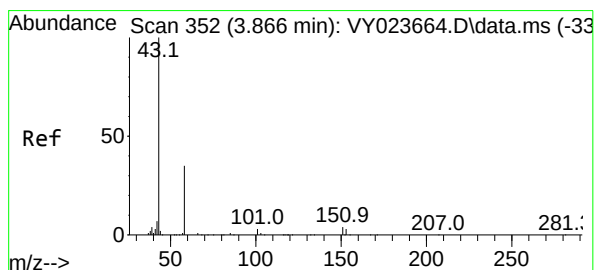
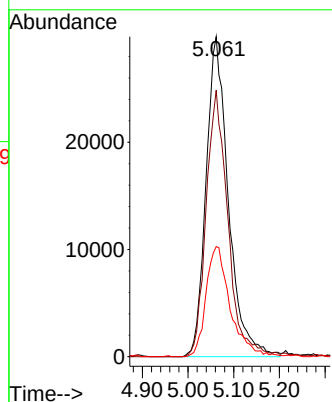
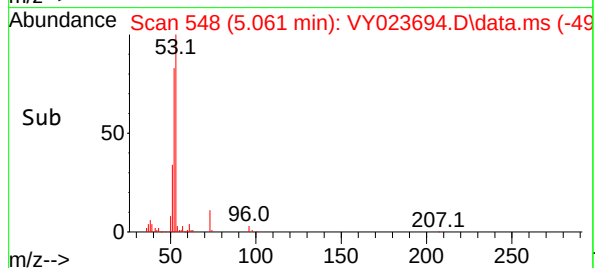
51 37.2 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#16

Acetone

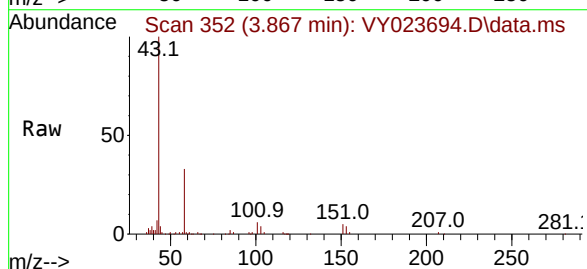
Concen: 115.698 ug/l

RT: 3.867 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

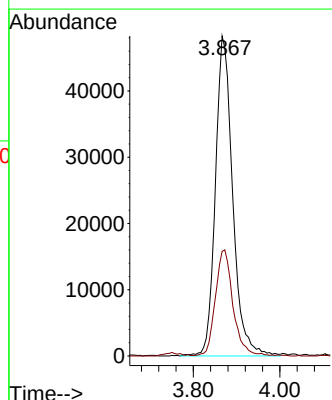
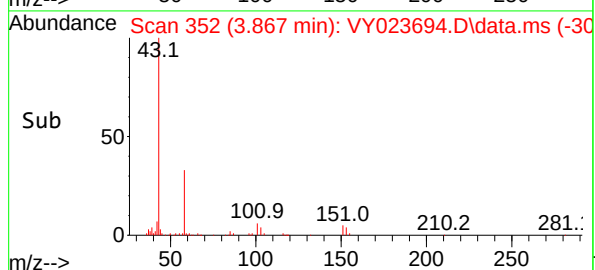


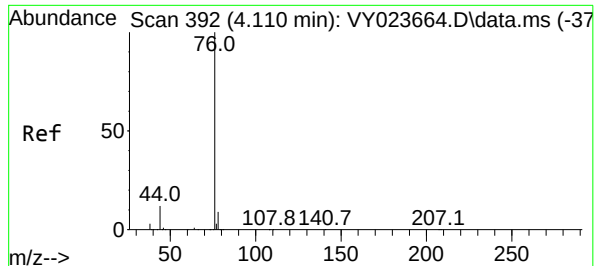
Tgt Ion: 43 Resp: 134180

Ion Ratio Lower Upper

43 100

58 32.4 28.2 42.4





#17

Carbon Disulfide

Concen: 21.038 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 76 Resp: 31554

Ion Ratio Lower Upper

76 100

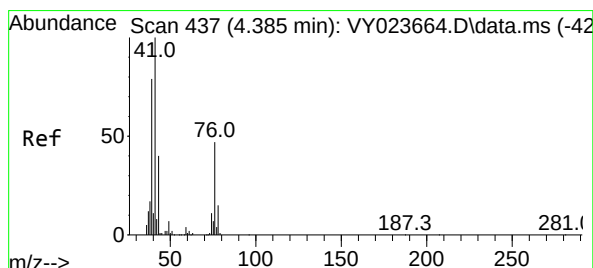
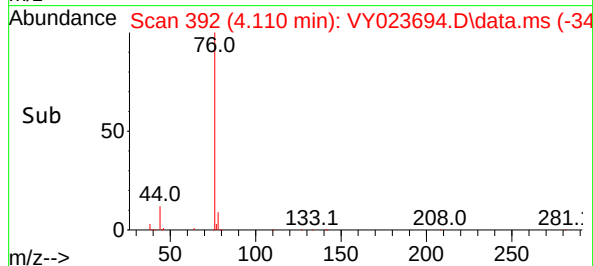
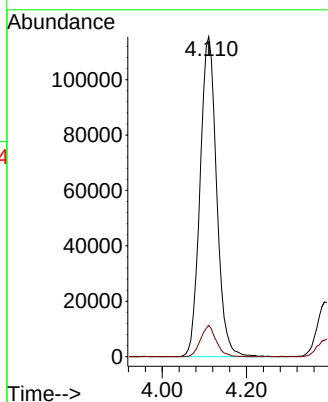
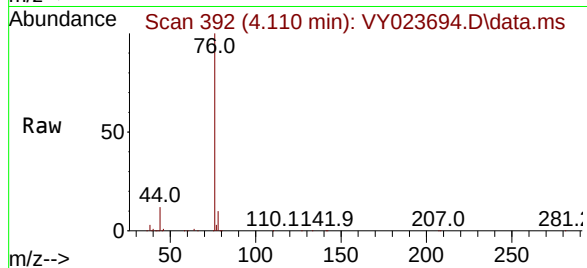
78 9.8 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#18

Methyl Acetate

Concen: 21.328 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023694.D

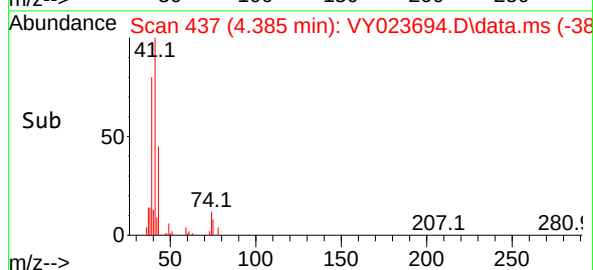
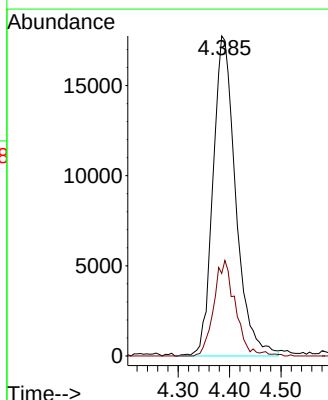
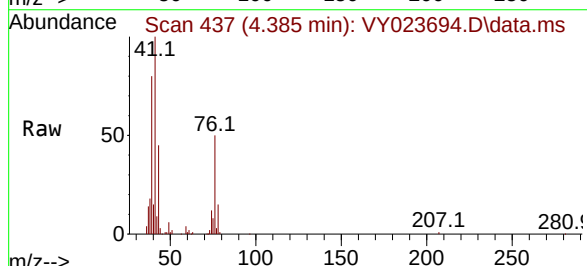
Acq: 06 Nov 2025 09:44

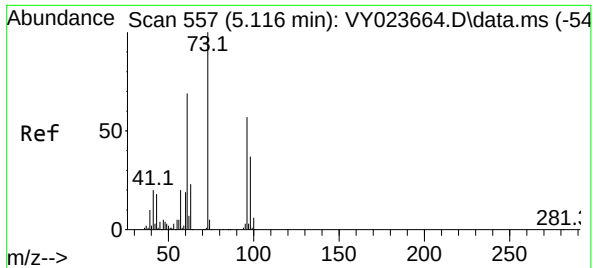
Tgt Ion: 43 Resp: 54558

Ion Ratio Lower Upper

43 100

74 27.7 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 20.440 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 73 Resp: 231620

Ion Ratio Lower Upper

73 100

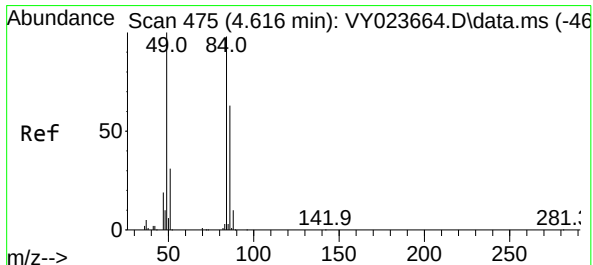
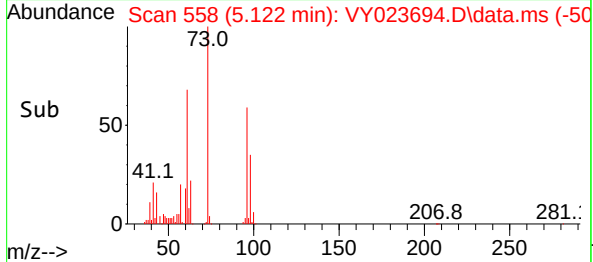
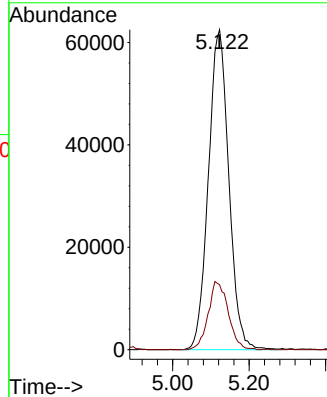
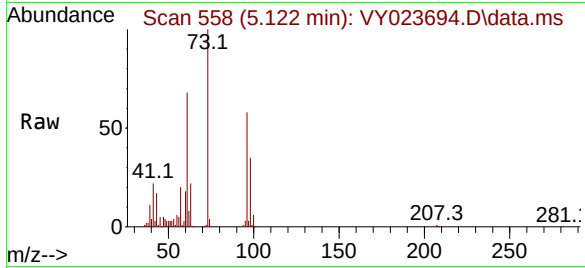
57 20.3 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#20

Methylene Chloride

Concen: 22.015 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Tgt Ion: 84 Resp: 123256

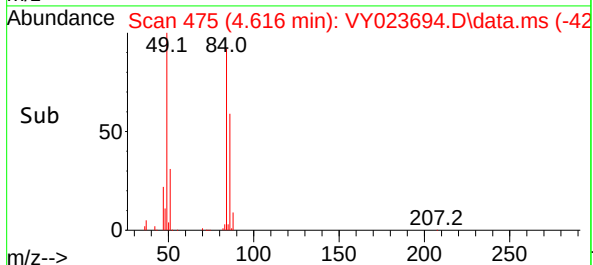
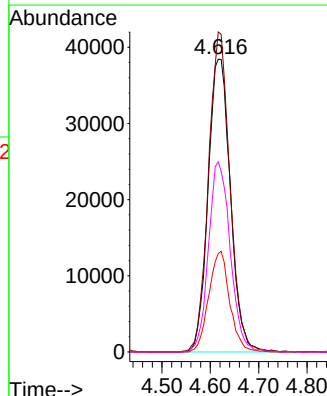
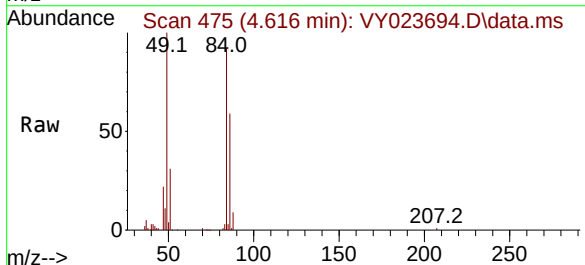
Ion Ratio Lower Upper

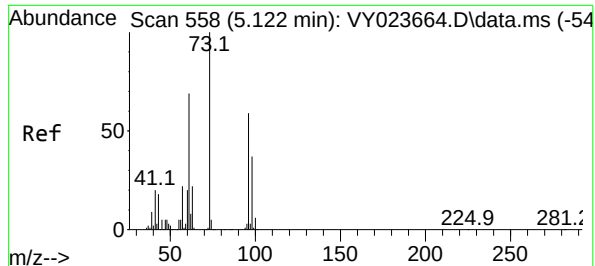
84 100

49 109.3 81.5 122.3

51 33.6 25.5 38.3

86 64.9 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 20.912 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 96 Resp: 11522

Ion Ratio Lower Upper

96 100

61 116.7 93.3 139.9

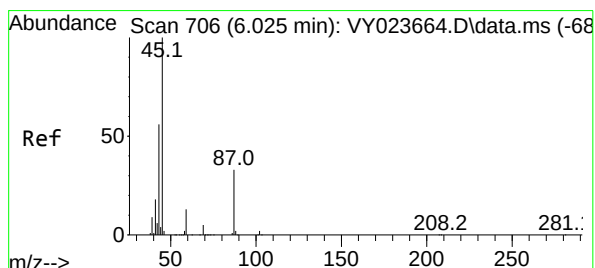
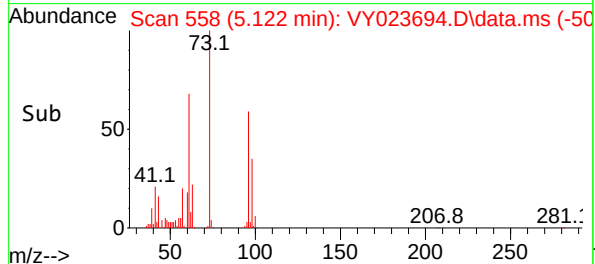
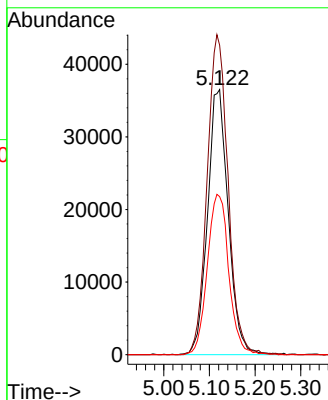
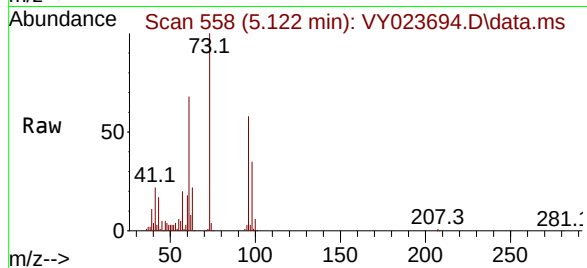
98 59.6 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#22

Diisopropyl ether

Concen: 21.468 ug/l

RT: 6.019 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Tgt Ion: 45 Resp: 284548

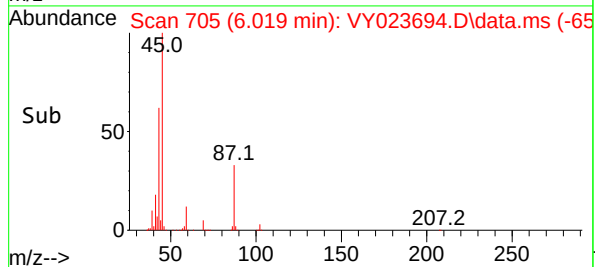
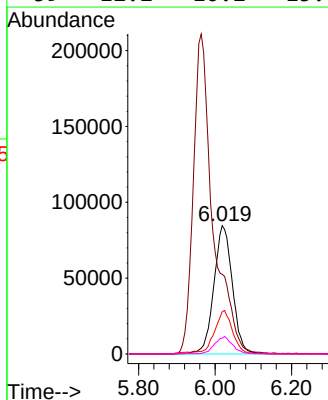
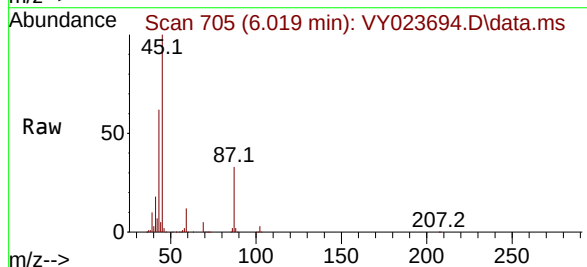
Ion Ratio Lower Upper

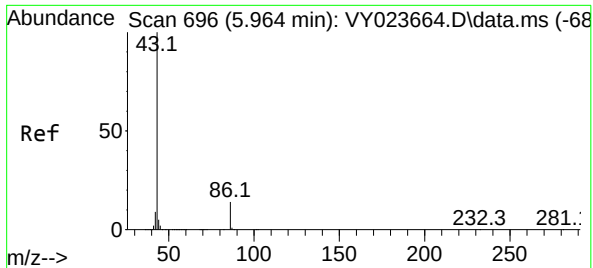
45 100

43 61.8 44.7 67.1

87 32.8 27.2 40.8

59 12.2 10.2 15.4





#23

Vinyl Acetate

Concen: 106.680 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 43 Resp: 75455

Ion Ratio Lower Upper

43 100

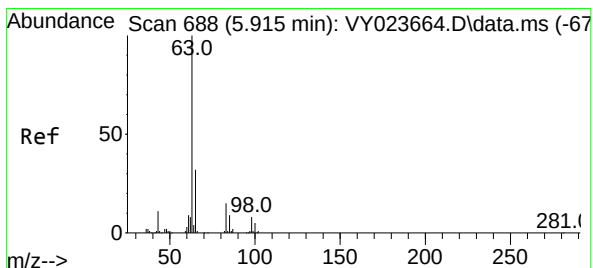
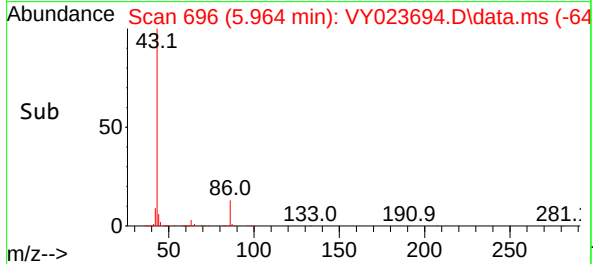
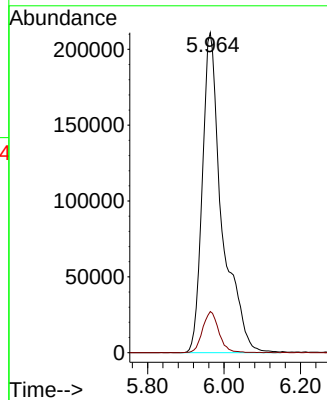
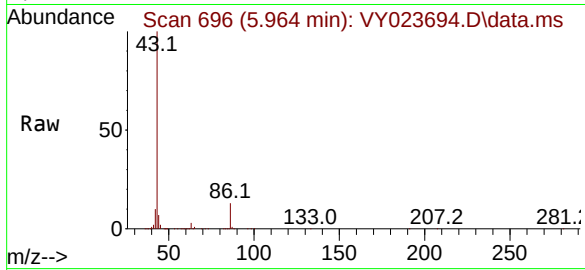
86 12.8 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#24

1,1-Dichloroethane

Concen: 20.949 ug/l

RT: 5.915 min Scan# 688

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

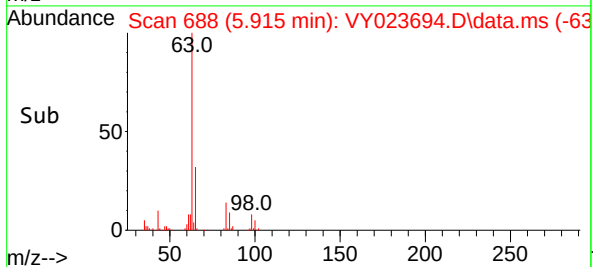
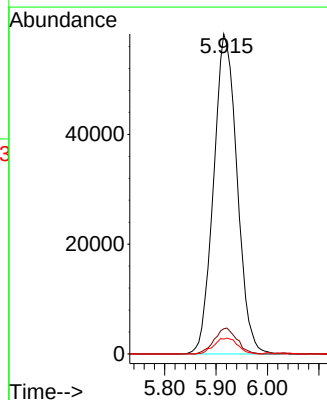
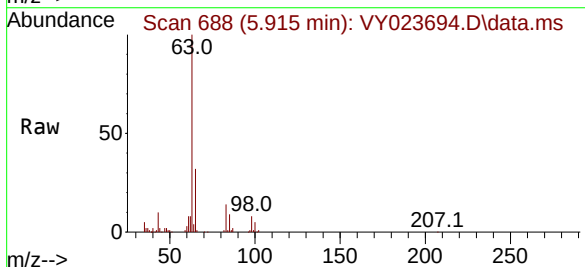
Tgt Ion: 63 Resp: 184976

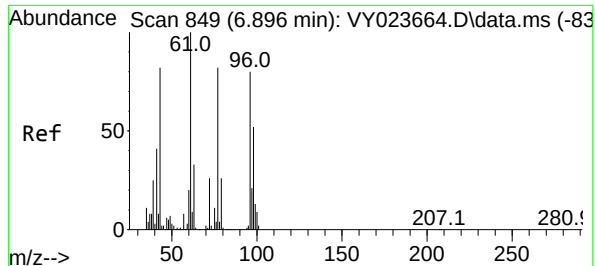
Ion Ratio Lower Upper

63 100

98 7.9 4.0 11.9

100 4.7 2.6 7.8





#25

2-Butanone

Concen: 114.713 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 43 Resp: 153810

Ion Ratio Lower Upper

43 100

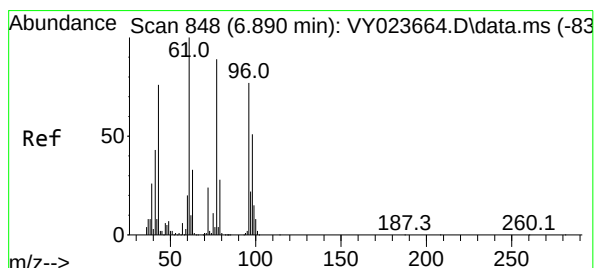
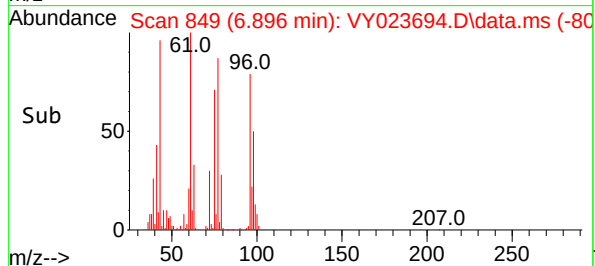
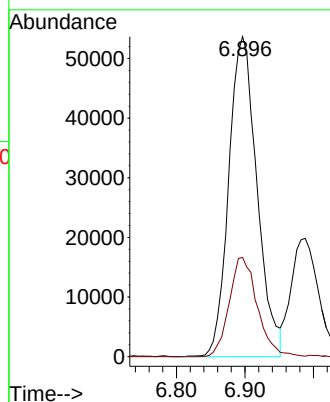
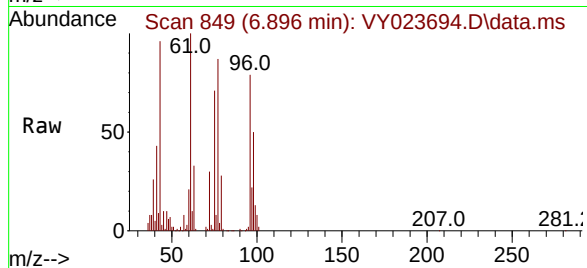
72 31.0 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#26

2,2-Dichloropropane

Concen: 20.971 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY023694.D

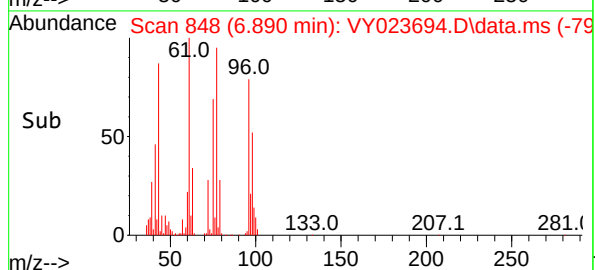
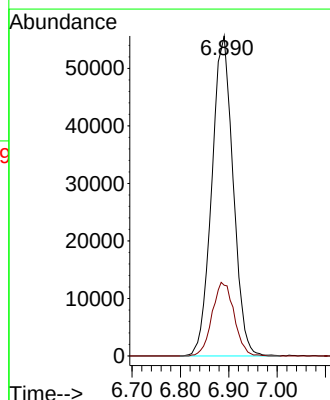
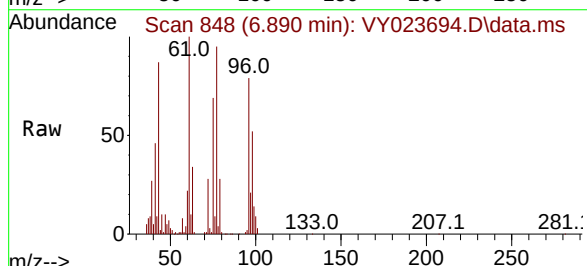
Acq: 06 Nov 2025 09:44

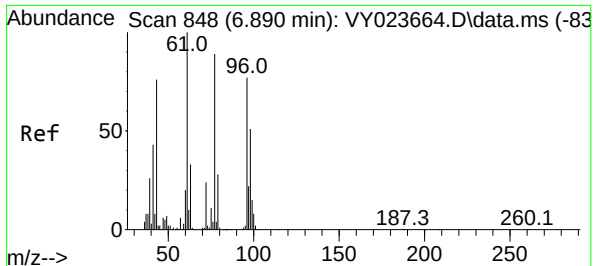
Tgt Ion: 77 Resp: 170334

Ion Ratio Lower Upper

77 100

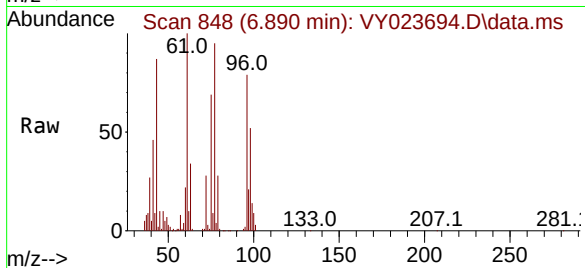
97 23.7 12.0 36.1





#27  
 cis-1,2-Dichloroethene  
 Concen: 20.238 ug/l  
 RT: 6.890 min Scan# 848  
 Delta R.T. 0.000 min  
 Lab File: VY023694.D  
 Acq: 06 Nov 2025 09:44

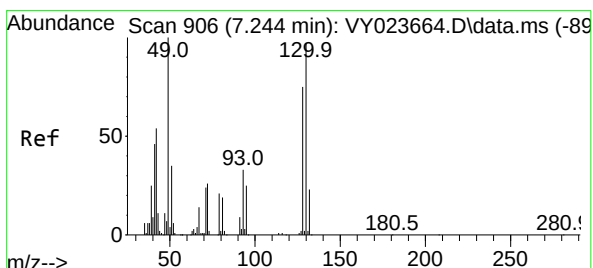
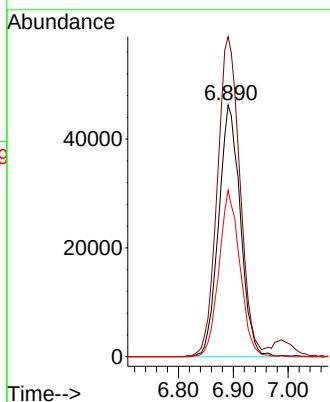
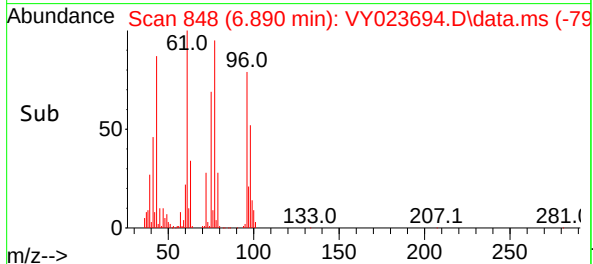
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01



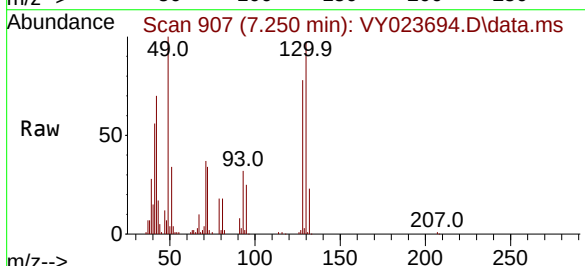
Tgt Ion: 96 Resp: 127350  
 Ion Ratio Lower Upper  
 96 100  
 61 132.3 0.0 255.0  
 98 63.9 0.0 129.8

Manual Integrations  
 APPROVED

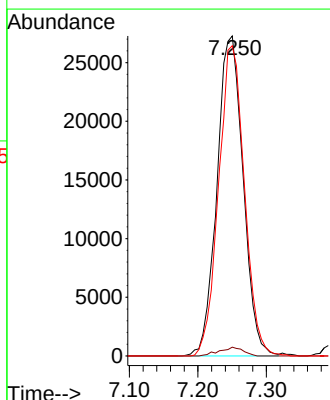
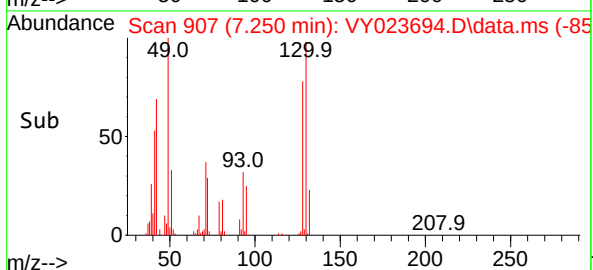
Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025



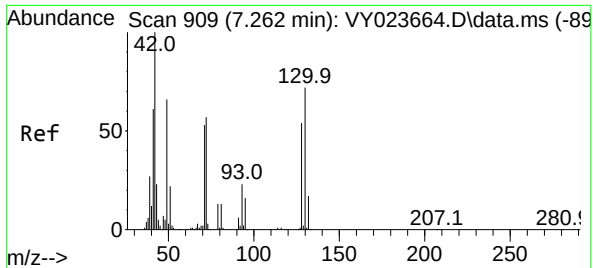
#28  
 Bromochloromethane  
 Concen: 21.371 ug/l  
 RT: 7.250 min Scan# 907  
 Delta R.T. 0.006 min  
 Lab File: VY023694.D  
 Acq: 06 Nov 2025 09:44



Tgt Ion: 49 Resp: 72254  
 Ion Ratio Lower Upper  
 49 100  
 129 2.5 0.0 5.0  
 130 95.6 80.1 120.1







#29

Tetrahydrofuran

Concen: 106.214 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 42 Resp: 7584

Ion Ratio Lower Upper

42 100

72 52.4 43.4 65.2

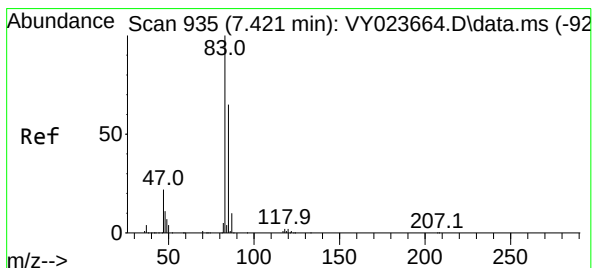
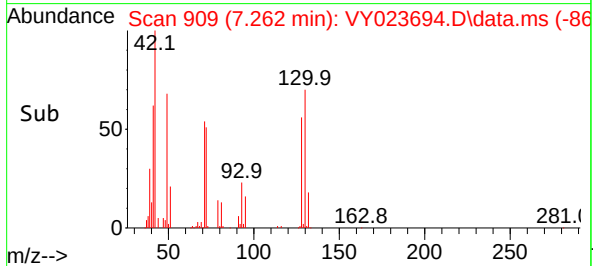
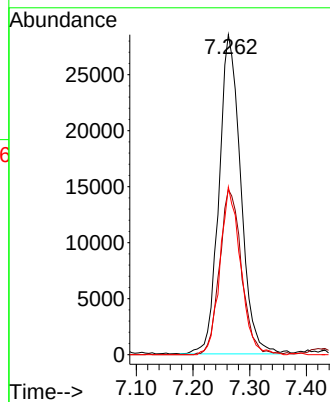
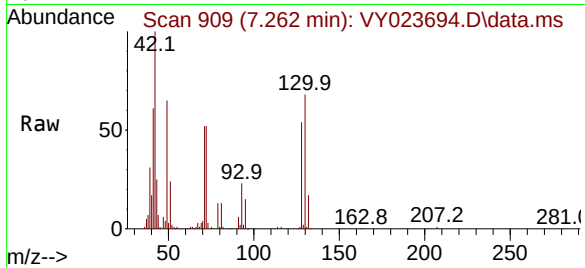
71 50.0 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#30

Chloroform

Concen: 20.610 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023694.D

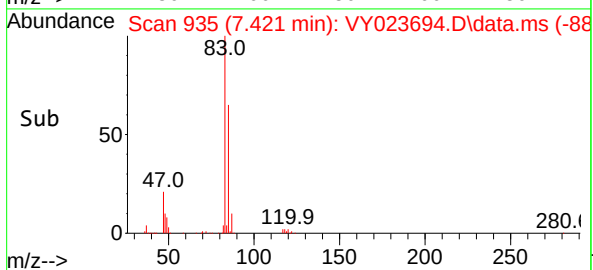
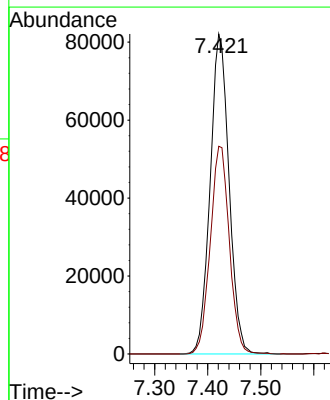
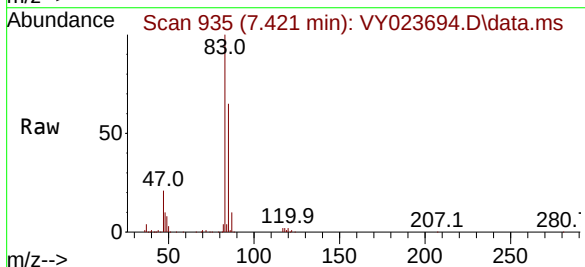
Acq: 06 Nov 2025 09:44

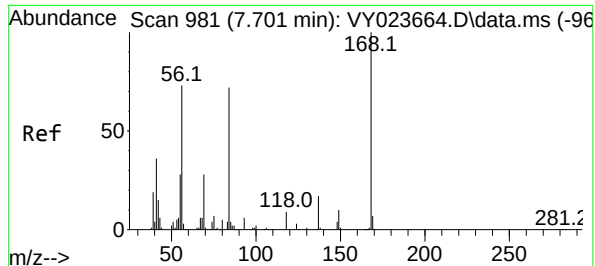
Tgt Ion: 83 Resp: 203045

Ion Ratio Lower Upper

83 100

85 64.9 52.1 78.1





#31

Cyclohexane

Concen: 20.819 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 56 Resp: 16009

Ion Ratio Lower Upper

56 100

69 43.8 30.5 45.7

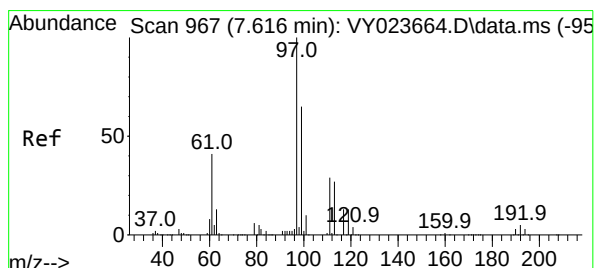
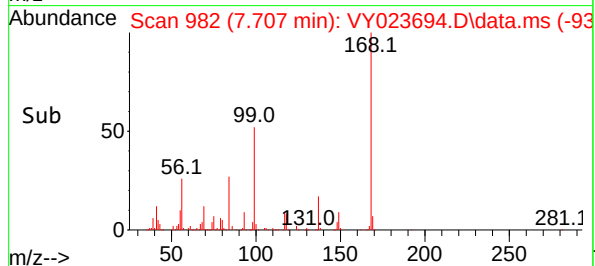
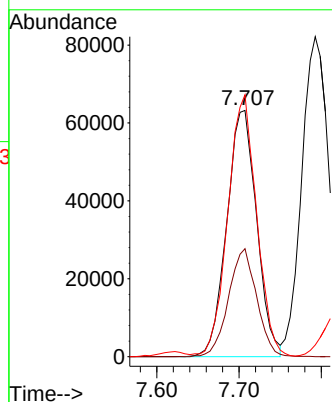
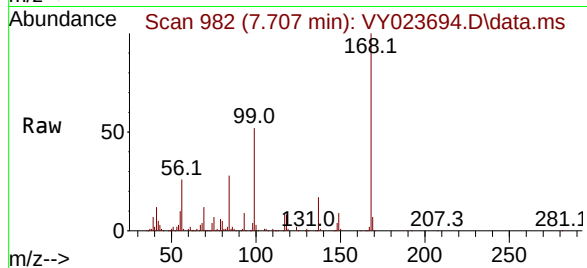
84 104.6 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#32

1,1,1-Trichloroethane

Concen: 20.376 ug/l

RT: 7.616 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

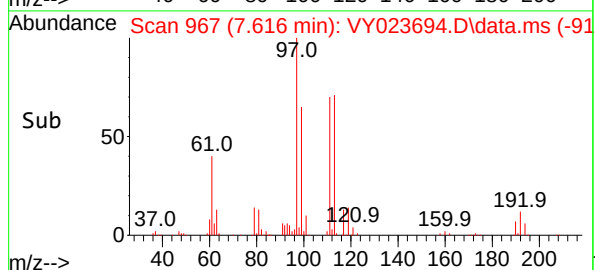
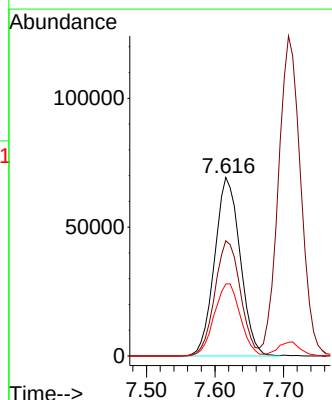
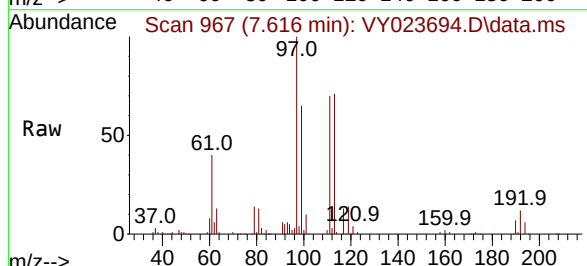
Tgt Ion: 97 Resp: 179418

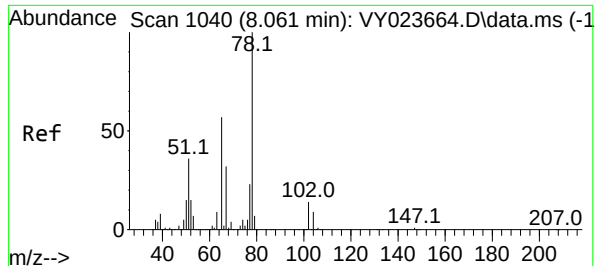
Ion Ratio Lower Upper

97 100

99 64.8 51.5 77.3

61 41.3 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 51.968 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 65 Resp: 242468

Ion Ratio Lower Upper

65 100

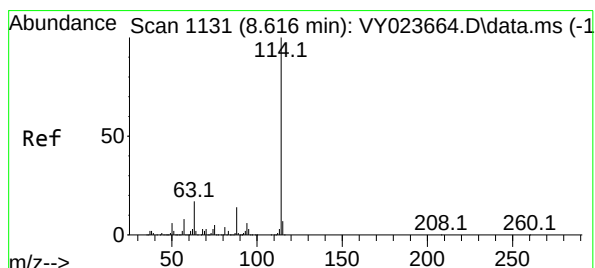
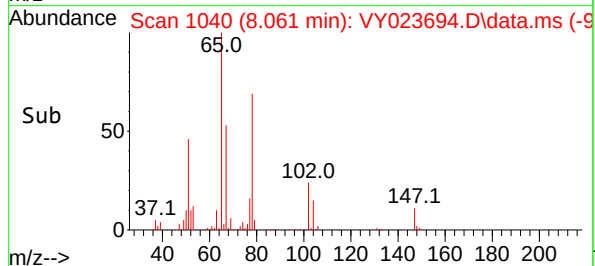
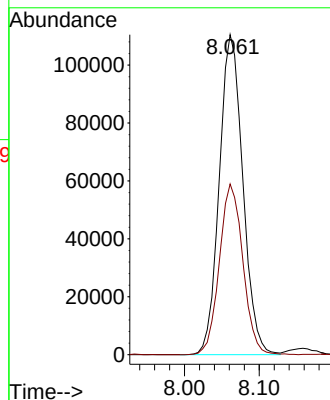
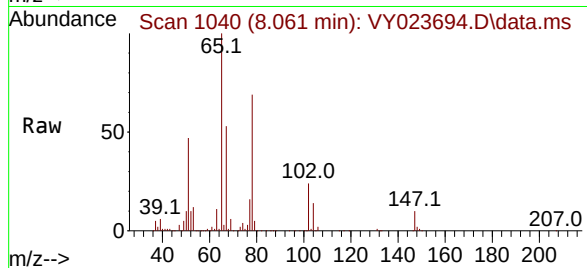
67 53.3 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

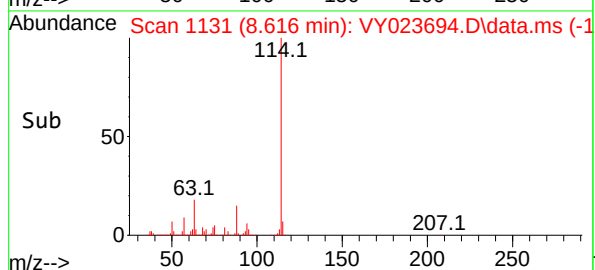
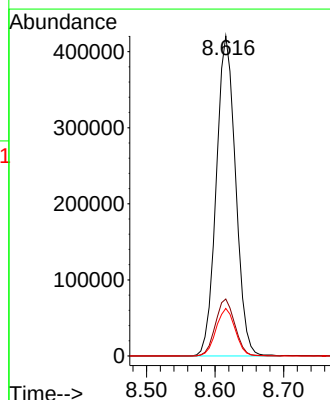
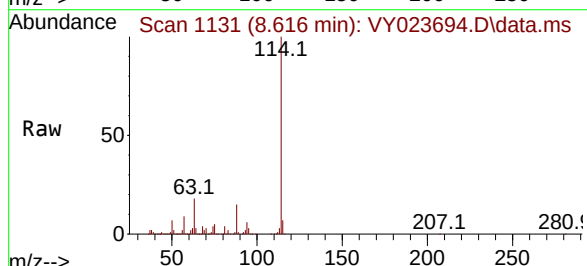
Tgt Ion:114 Resp: 822052

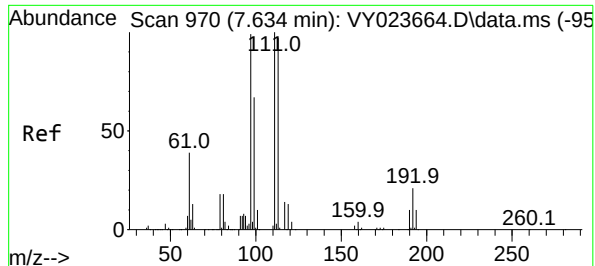
Ion Ratio Lower Upper

114 100

63 17.8 0.0 33.8

88 14.9 0.0 29.0





#35

Dibromofluoromethane

Concen: 50.457 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:113 Resp: 259210

Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

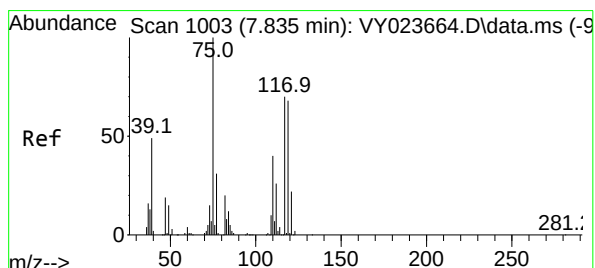
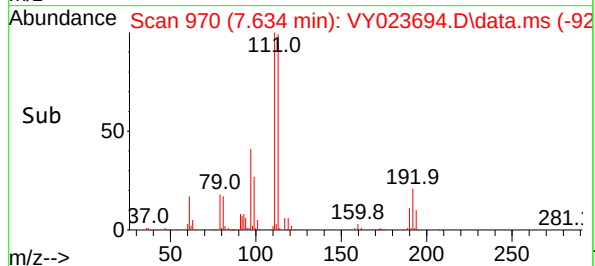
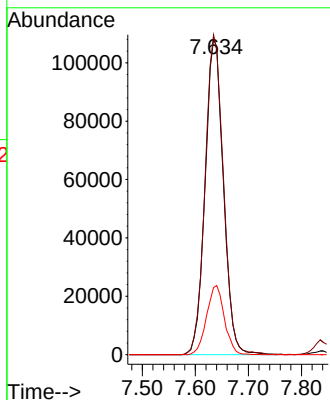
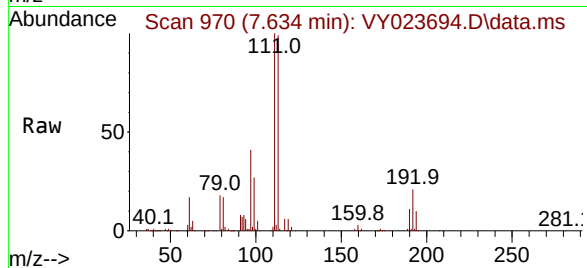
192 21.3 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#36

1,1-Dichloropropene

Concen: 20.416 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

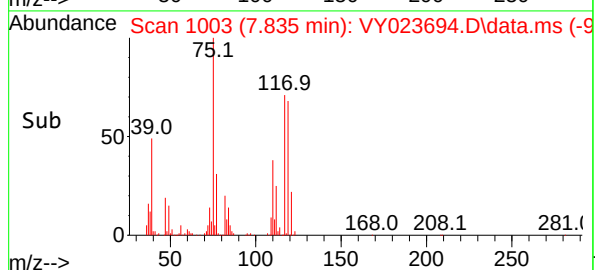
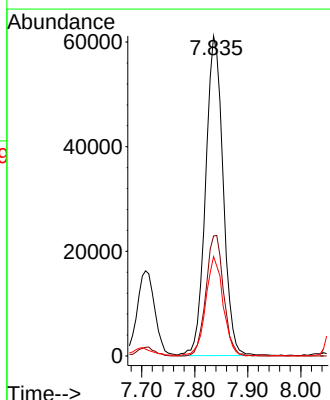
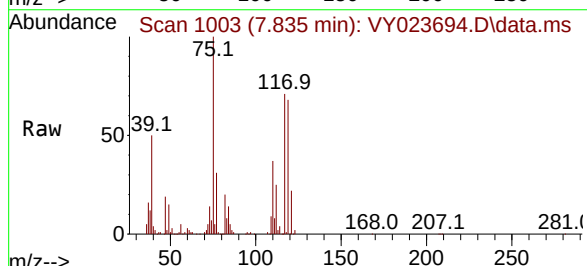
Tgt Ion: 75 Resp: 140152

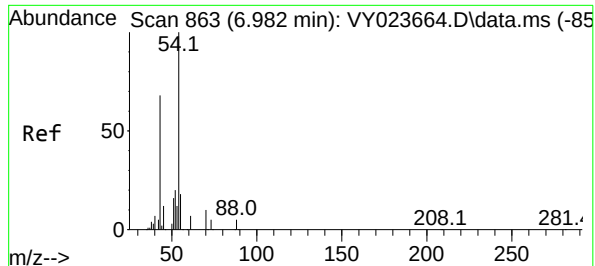
Ion Ratio Lower Upper

75 100

110 38.1 19.7 59.0

77 31.0 25.2 37.8





#37

Ethyl Acetate

Concen: 21.240 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 43 Resp: 5644

Ion Ratio Lower Upper

43 100

61 15.6 12.4 18.6

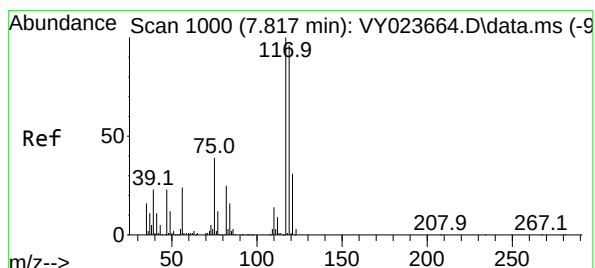
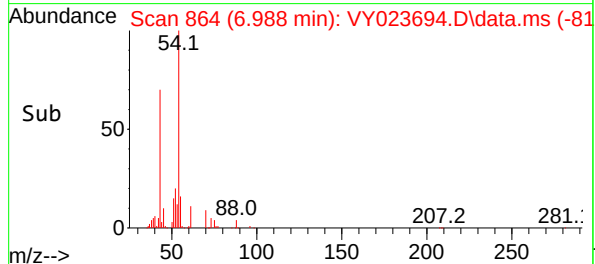
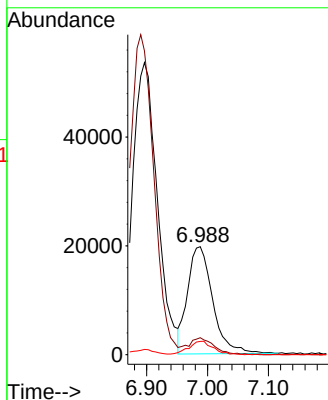
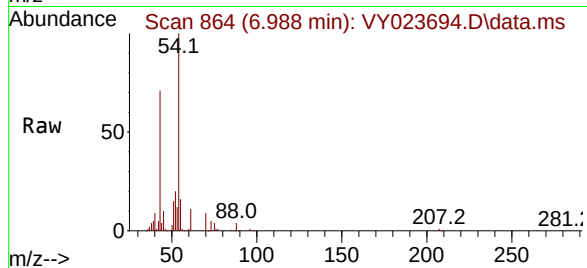
70 12.1 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#38

Carbon Tetrachloride

Concen: 20.467 ug/l

RT: 7.817 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

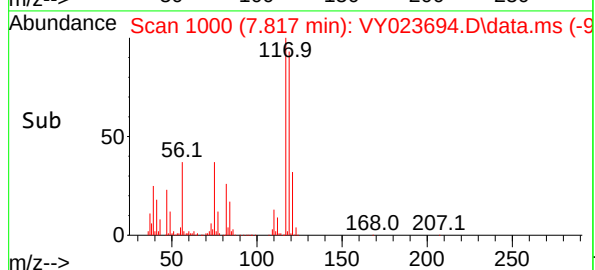
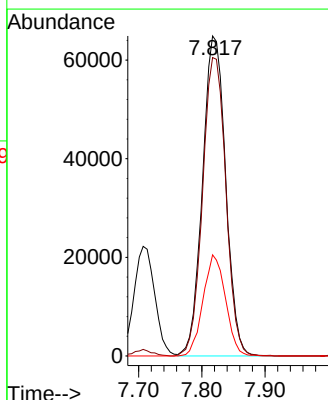
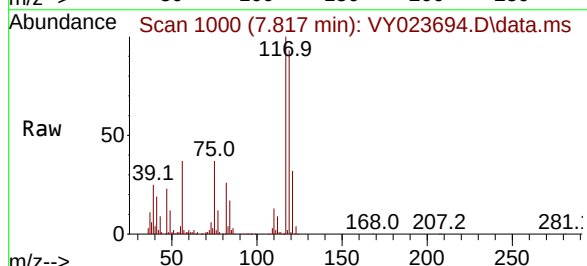
Tgt Ion:117 Resp: 165543

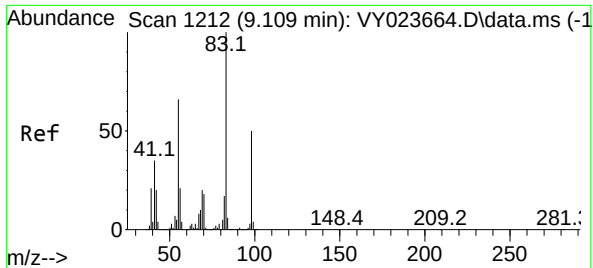
Ion Ratio Lower Upper

117 100

119 93.2 76.3 114.5

121 31.6 24.8 37.2





#39

Methylcyclohexane

Concen: 19.710 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023694.D

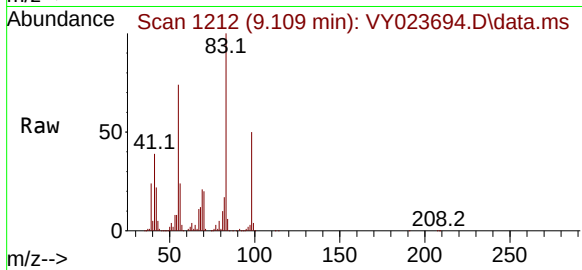
Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 83 Resp: 17288

Ion Ratio Lower Upper

83 100

55 73.9 52.6 78.8

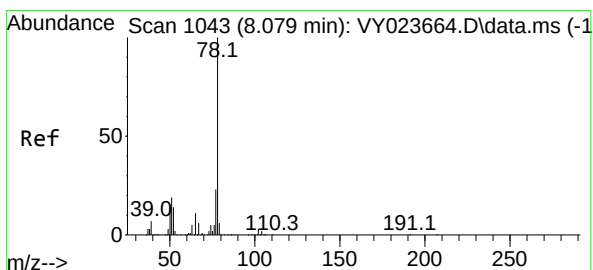
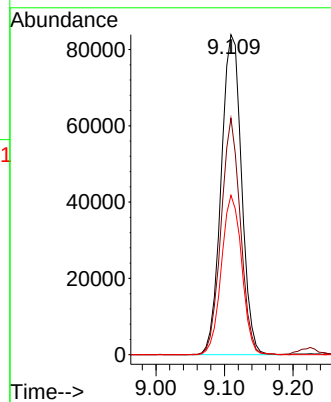
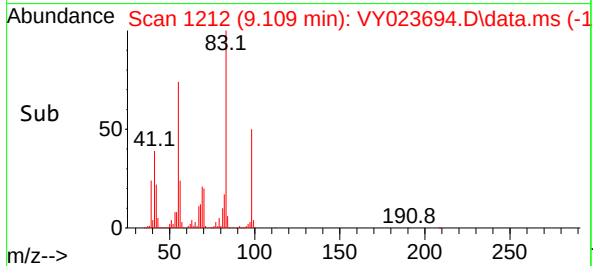
98 49.8 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#40

Benzene

Concen: 20.538 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023694.D

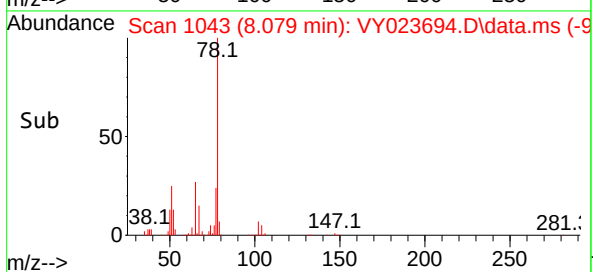
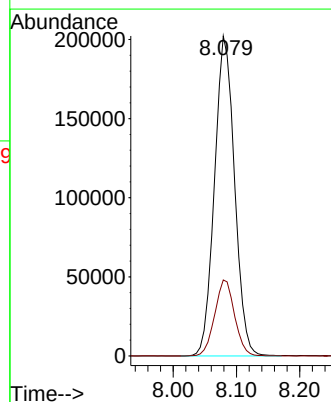
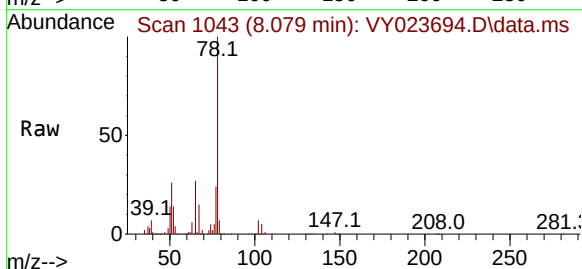
Acq: 06 Nov 2025 09:44

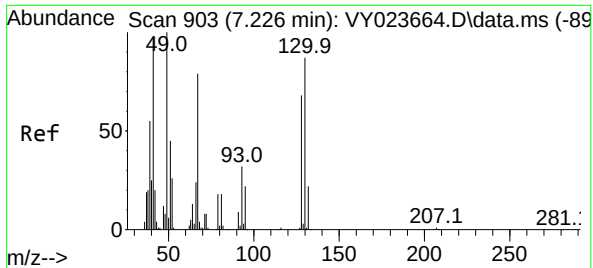
Tgt Ion: 78 Resp: 444410

Ion Ratio Lower Upper

78 100

77 23.7 18.8 28.2





#41

Methacrylonitrile

Concen: 16.817 ug/l

RT: 7.220 min Scan# 903

Delta R.T. -0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 41 Resp: 2439

Ion Ratio Lower Upper

41 100

39 0.0 38.6 57.8

67 102.0 71.3 106.9

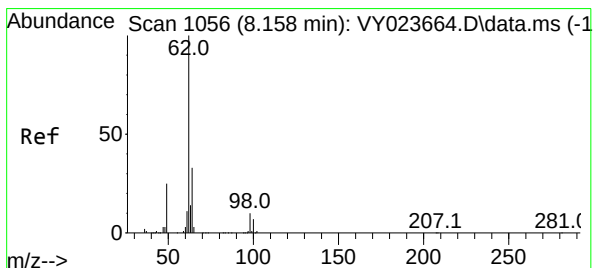
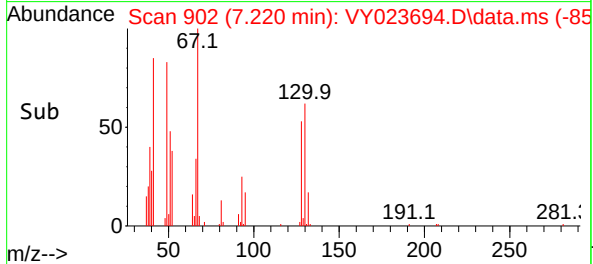
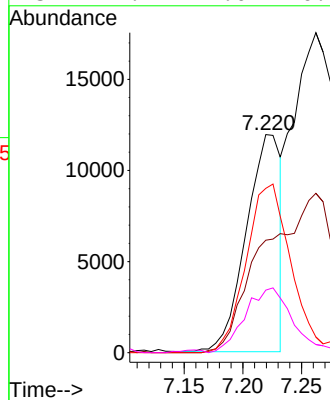
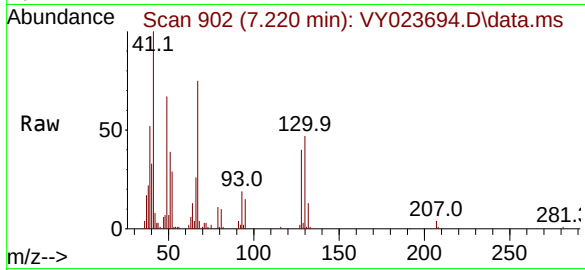
52 41.2 27.0 40.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#42

1,2-Dichloroethane

Concen: 20.708 ug/l

RT: 8.158 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VY023694.D

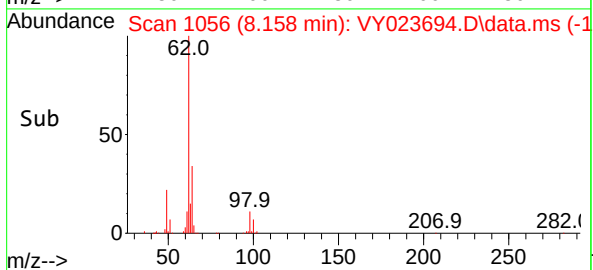
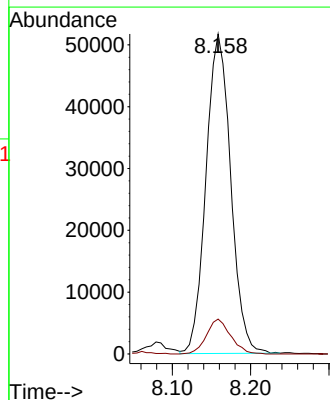
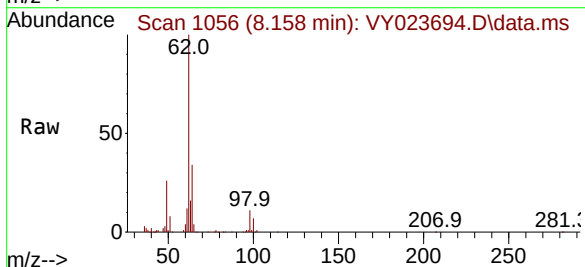
Acq: 06 Nov 2025 09:44

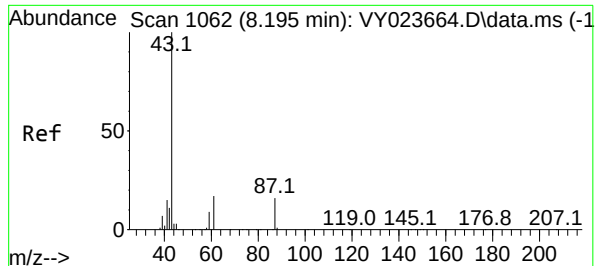
Tgt Ion: 62 Resp: 113361

Ion Ratio Lower Upper

62 100

98 10.7 0.0 21.0





#43

Isopropyl Acetate

Concen: 20.589 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 43 Resp: 102800

Ion Ratio Lower Upper

43 100

61 23.1 18.2 27.2

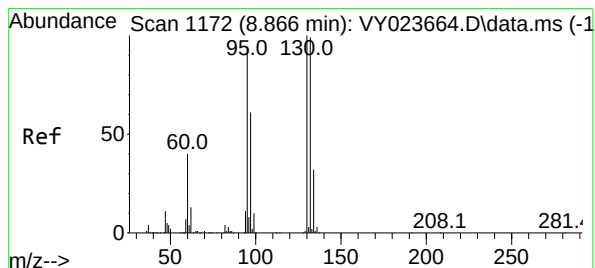
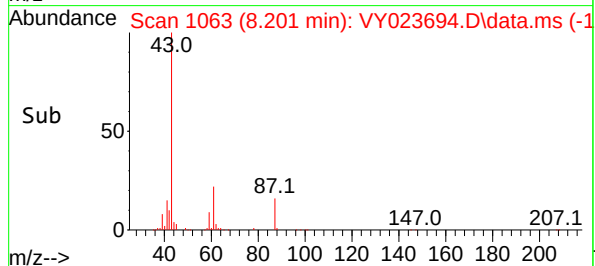
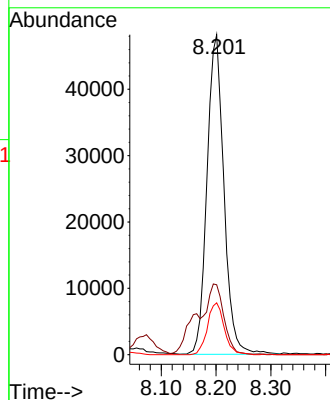
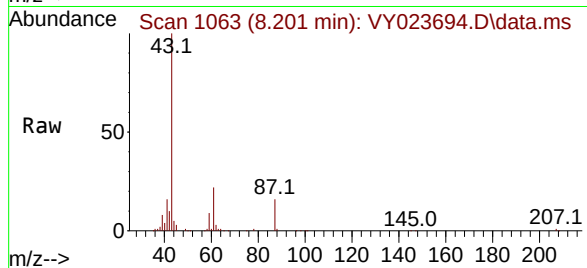
87 16.2 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#44

Trichloroethene

Concen: 20.023 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023694.D

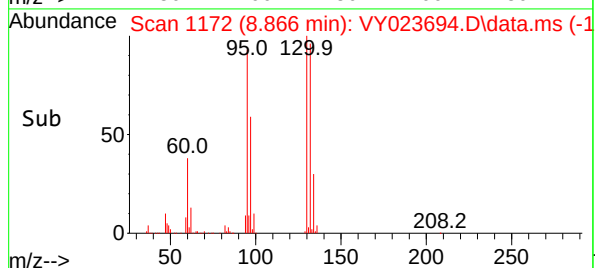
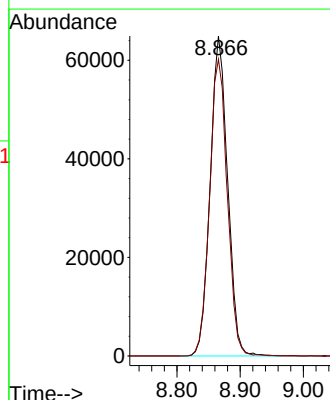
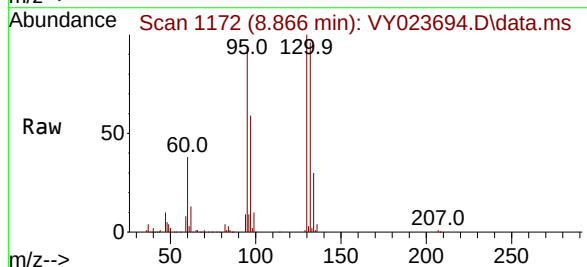
Acq: 06 Nov 2025 09:44

Tgt Ion:130 Resp: 124443

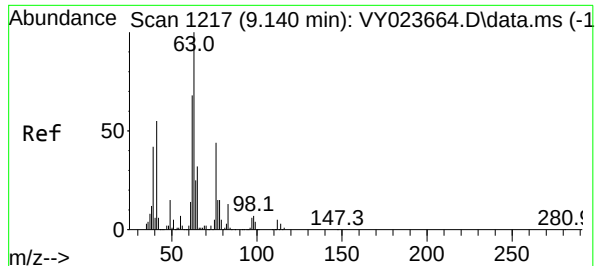
Ion Ratio Lower Upper

130 100

95 92.7 0.0 187.0







#45

1,2-Dichloropropane

Concen: 20.778 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 63 Resp: 99224

Ion Ratio Lower Upper

63 100

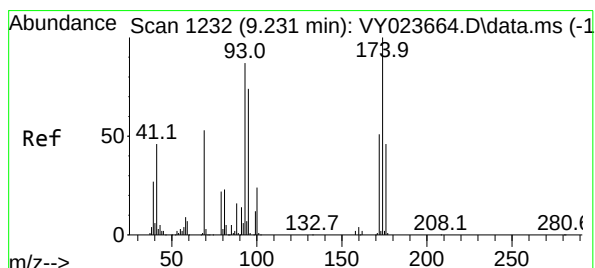
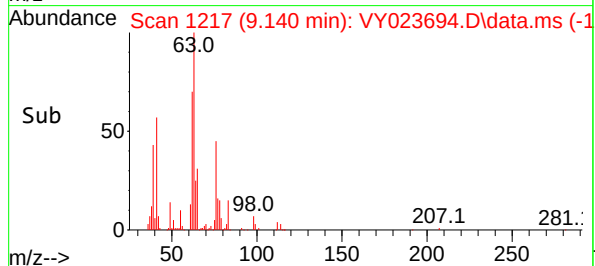
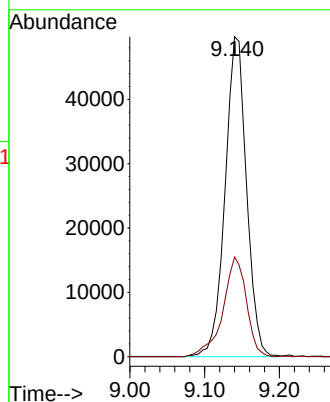
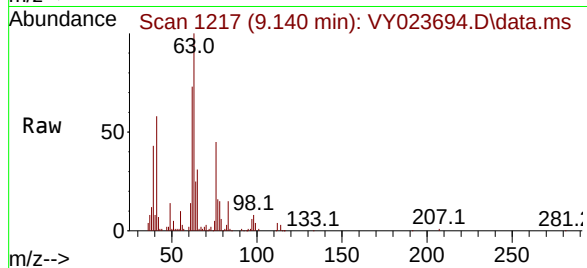
65 31.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#46

Dibromomethane

Concen: 20.709 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

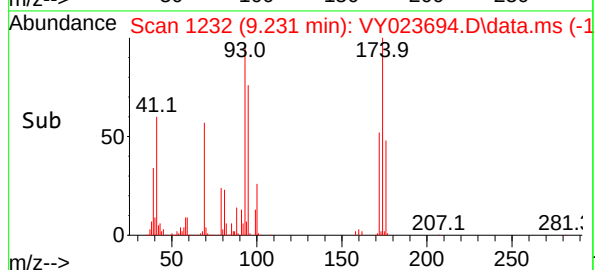
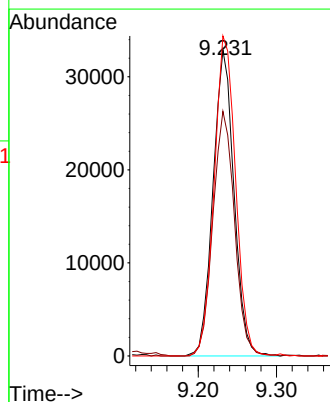
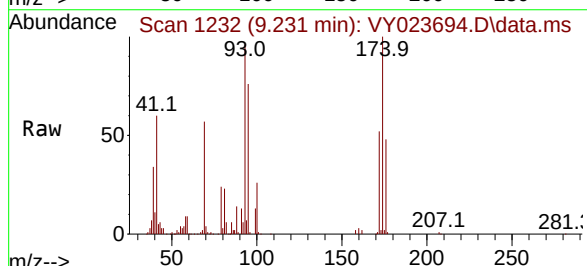
Tgt Ion: 93 Resp: 61277

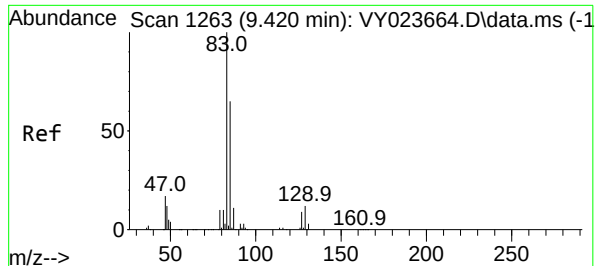
Ion Ratio Lower Upper

93 100

95 82.2 67.4 101.2

174 106.8 89.4 134.0





#47

Bromodichloromethane

Concen: 20.684 ug/l

RT: 9.420 min Scan# 1263

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 83 Resp: 15431

Ion Ratio Lower Upper

83 100

85 62.1 52.1 78.1

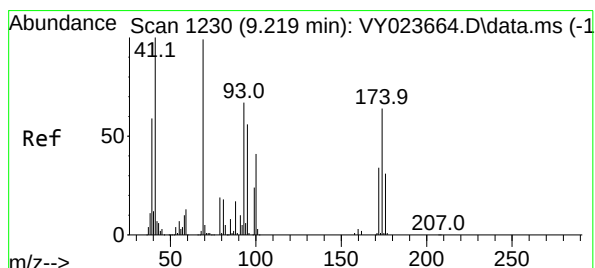
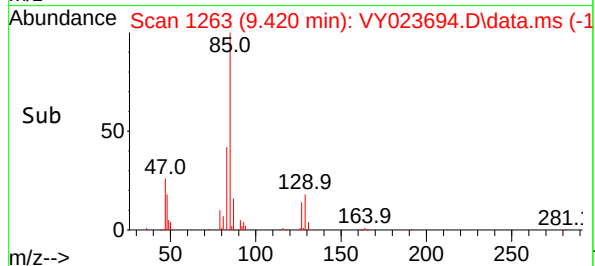
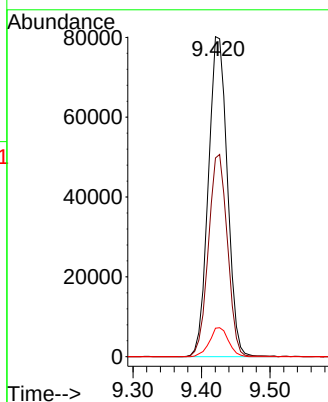
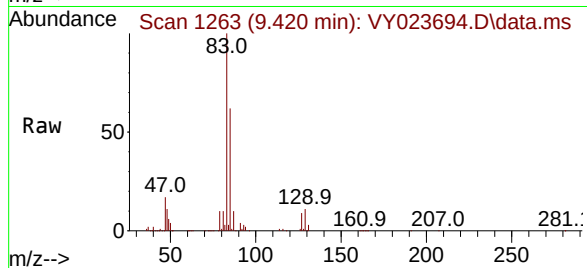
127 8.9 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#48

Methyl methacrylate

Concen: 20.532 ug/l

RT: 9.219 min Scan# 1230

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

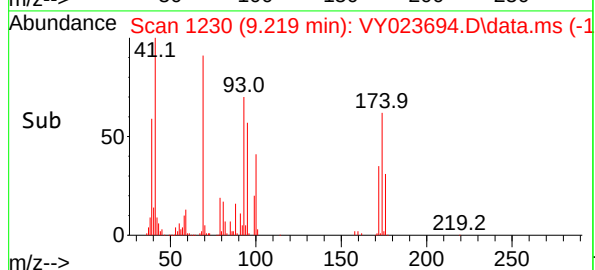
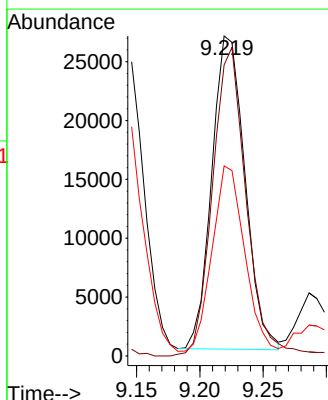
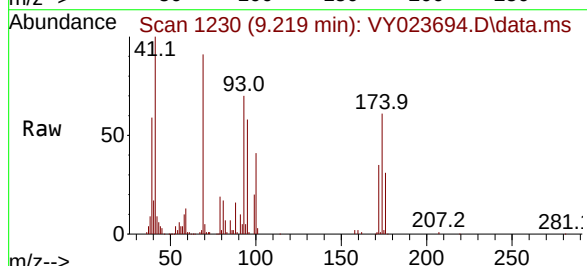
Tgt Ion: 41 Resp: 48437

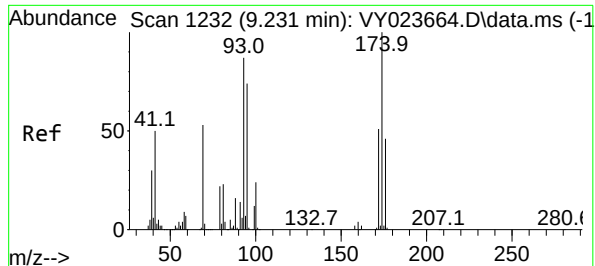
Ion Ratio Lower Upper

41 100

69 101.0 80.2 120.2

39 58.1 47.4 71.0





#49

1,4-Dioxane

Concen: 413.484 ug/l

RT: 9.225 min Scan# 1232

Delta R.T. -0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 88 Resp: 1252

Ion Ratio Lower Upper

88 100

43 33.4 22.0 33.0

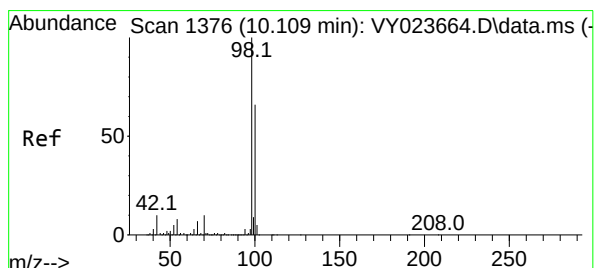
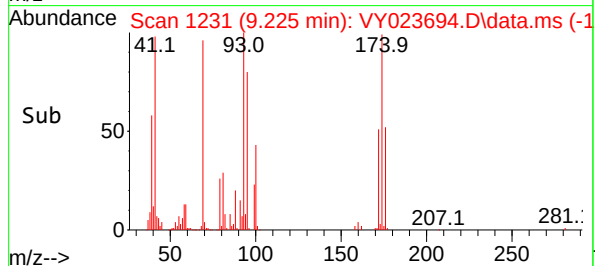
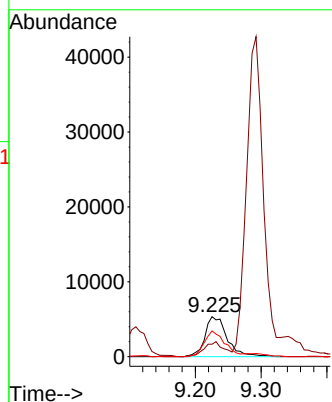
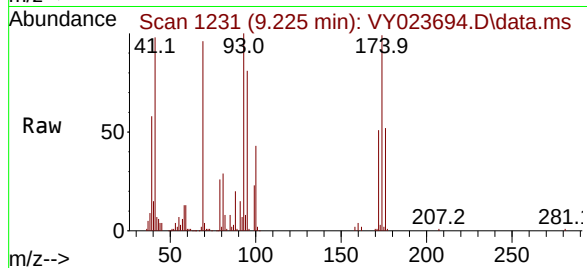
58 60.5 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#50

Toluene-d8

Concen: 51.518 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY023694.D

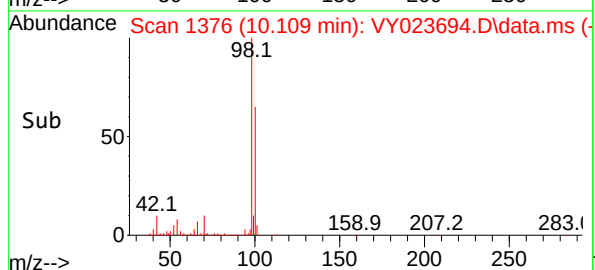
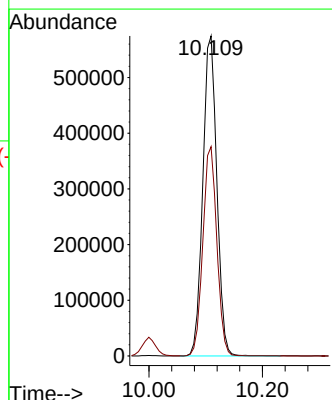
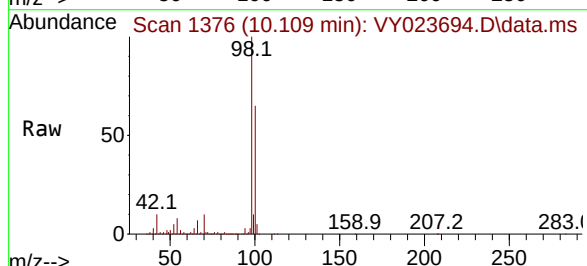
Acq: 06 Nov 2025 09:44

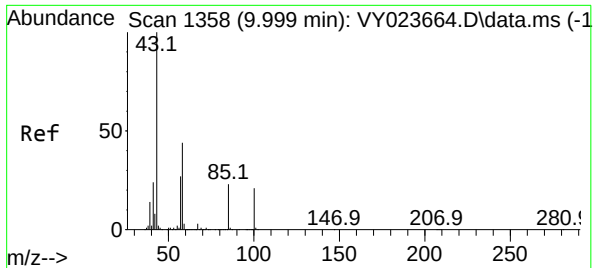
Tgt Ion: 98 Resp: 985886

Ion Ratio Lower Upper

98 100

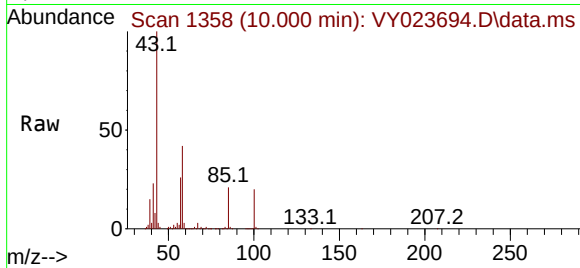
100 65.2 52.7 79.1





#51  
4-Methyl-2-Pentanone  
Concen: 106.199 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

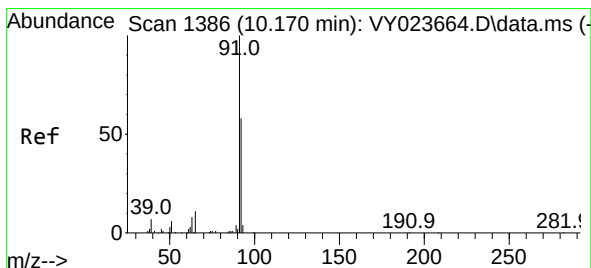
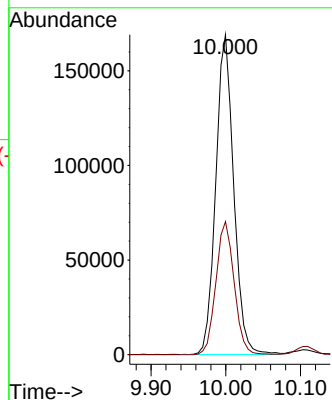
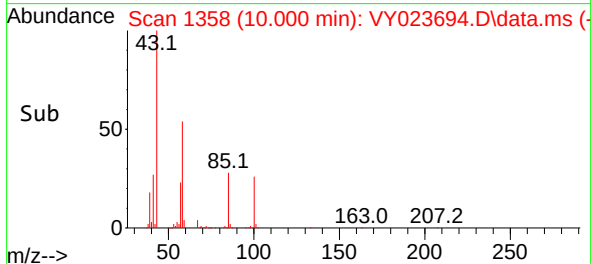
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



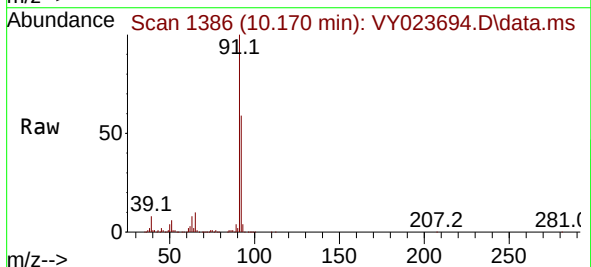
Tgt Ion: 43 Resp: 281999  
Ion Ratio Lower Upper  
43 100  
58 42.3 34.8 52.2

Manual Integrations  
APPROVED

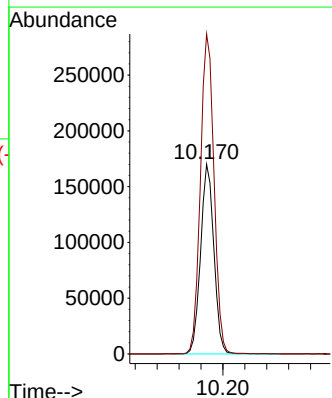
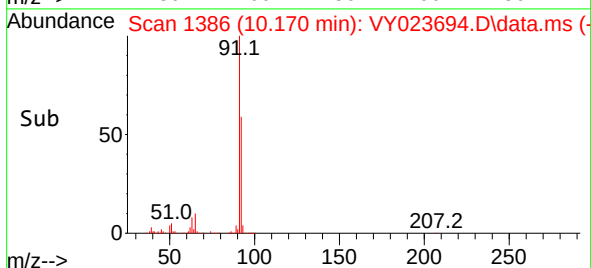
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

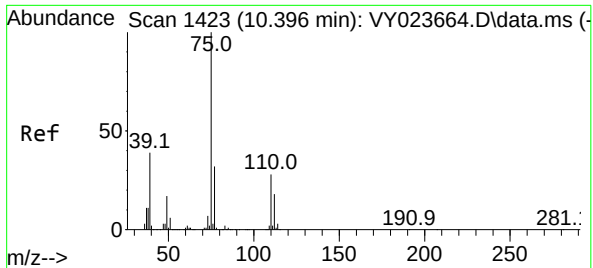


#52  
Toluene  
Concen: 20.728 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



Tgt Ion: 92 Resp: 286343  
Ion Ratio Lower Upper  
92 100  
91 172.6 137.8 206.8





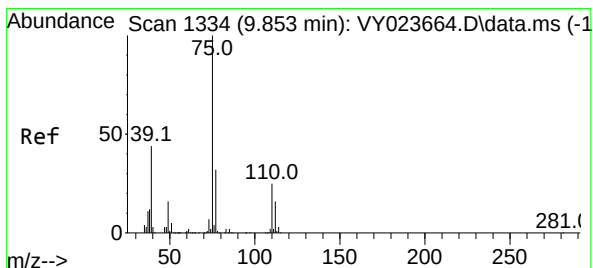
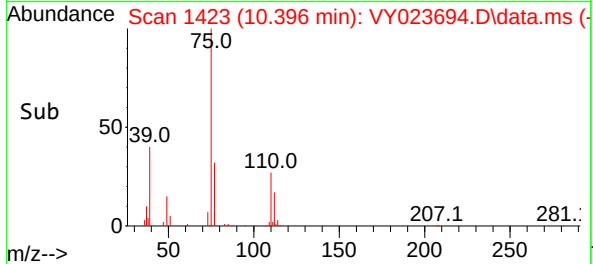
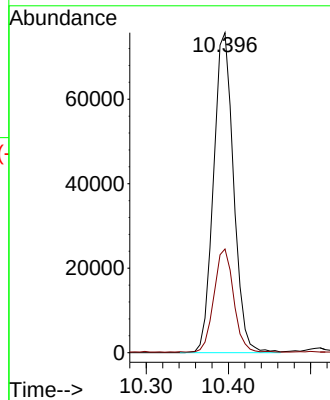
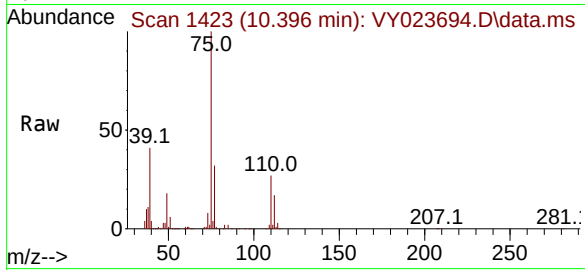
#53  
t-1,3-Dichloropropene  
Concen: 20.355 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Tgt Ion: 75 Resp: 12849  
Ion Ratio Lower Upper  
75 100  
77 32.2 25.6 38.4

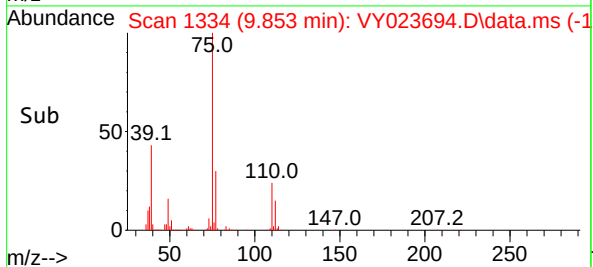
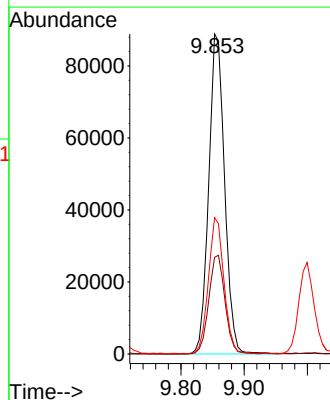
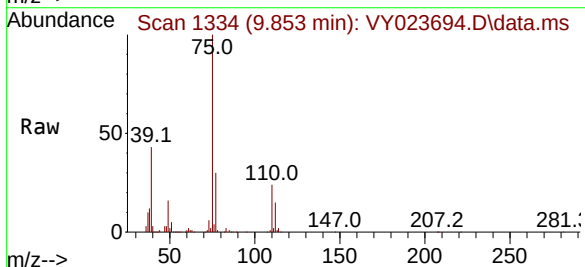
Manual Integrations  
APPROVED

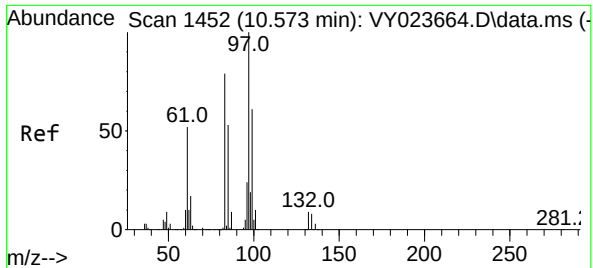
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#54  
cis-1,3-Dichloropropene  
Concen: 20.554 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

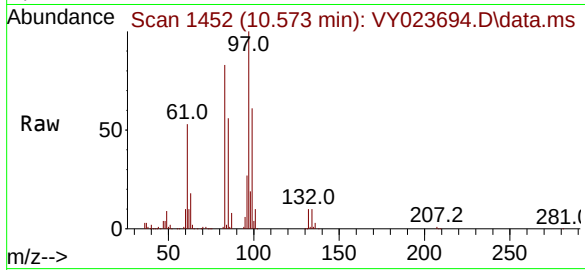
Tgt Ion: 75 Resp: 155449  
Ion Ratio Lower Upper  
75 100  
77 30.2 25.7 38.5  
39 42.5 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 20.790 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

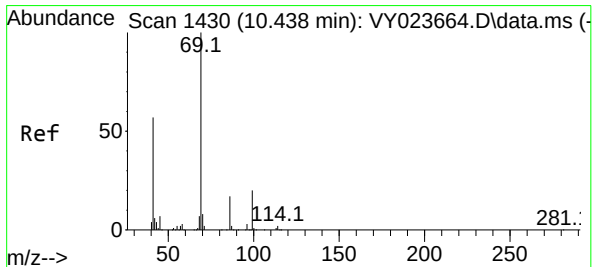
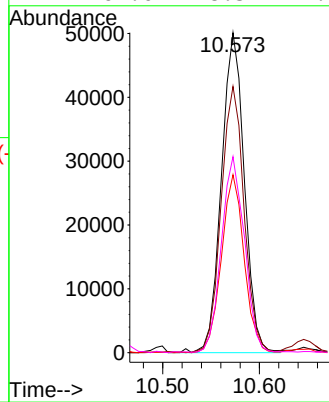
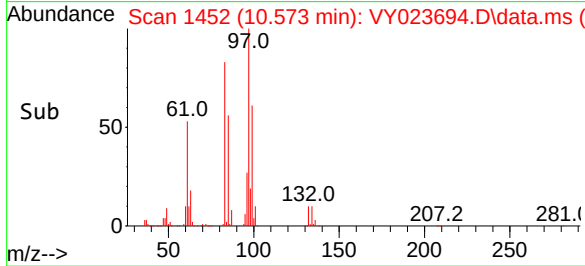
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 97 Resp: 8221  
Ion Ratio Lower Upper  
97 100  
83 83.0 63.3 94.9  
85 55.4 42.4 63.6  
99 61.0 48.5 72.7

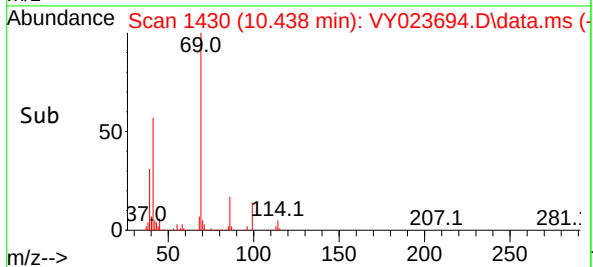
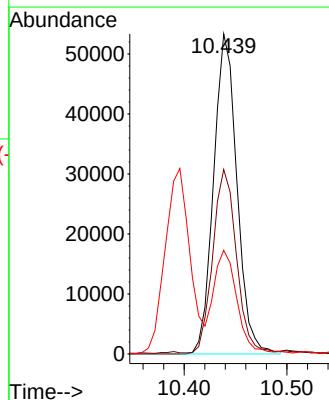
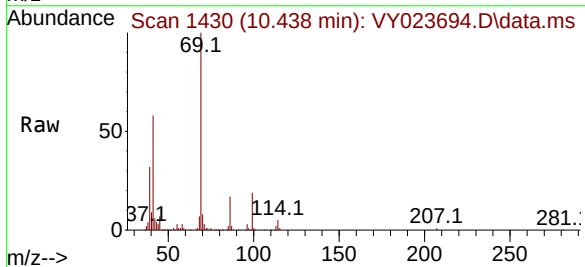
Manual Integrations  
APPROVED

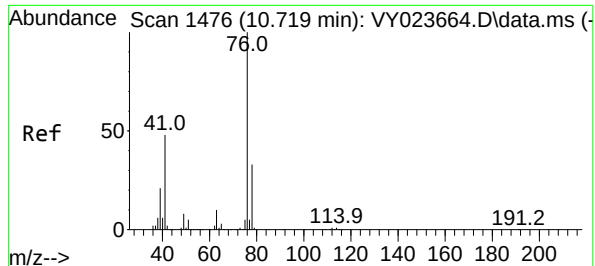
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#56  
Ethyl methacrylate  
Concen: 19.296 ug/l  
RT: 10.438 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Tgt Ion: 69 Resp: 84068  
Ion Ratio Lower Upper  
69 100  
41 57.7 45.0 67.4  
39 31.8 25.1 37.7





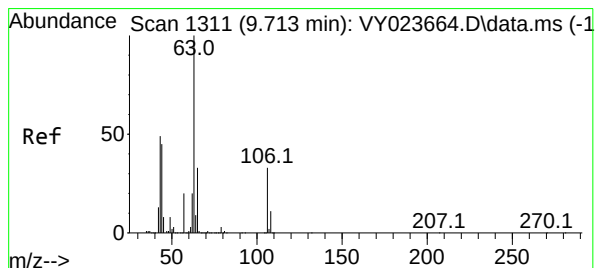
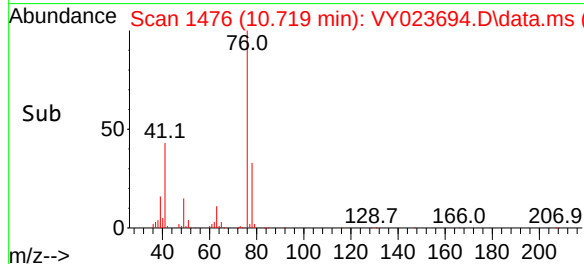
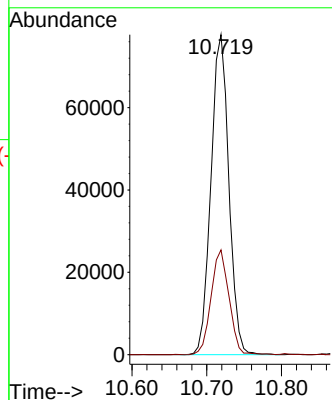
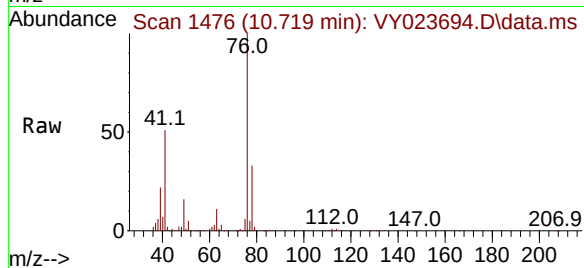
#57  
1,3-Dichloropropane  
Concen: 20.589 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Tgt Ion: 76 Resp: 129138  
Ion Ratio Lower Upper  
76 100  
78 32.8 26.0 39.0

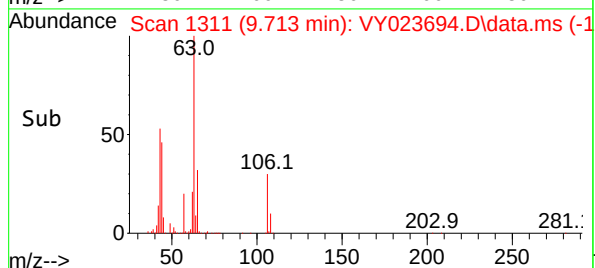
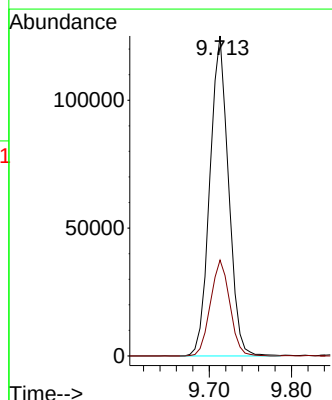
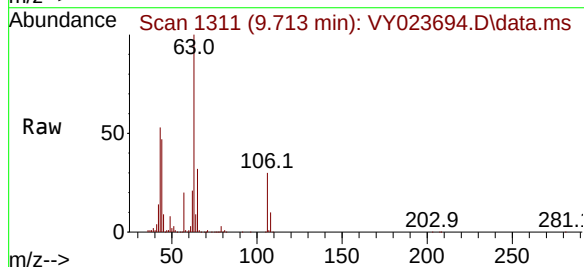
Manual Integrations  
APPROVED

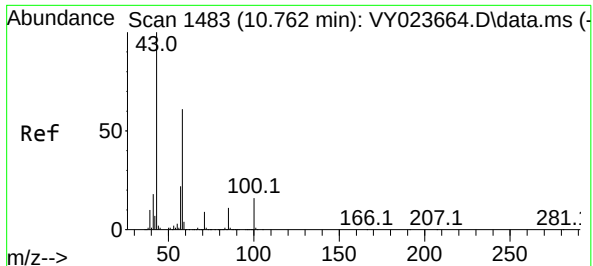
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 98.718 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

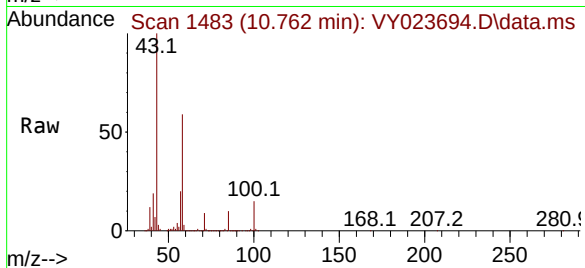
Tgt Ion: 63 Resp: 197363  
Ion Ratio Lower Upper  
63 100  
106 31.0 26.2 39.2





#59  
2-Hexanone  
Concen: 108.695 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

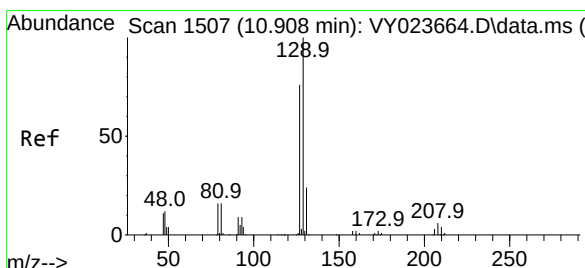
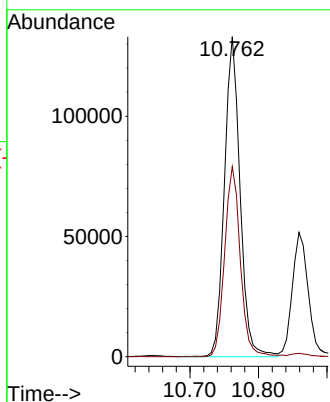
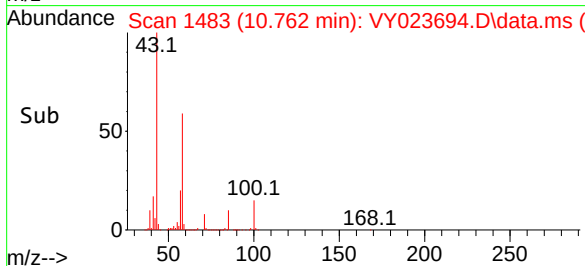
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



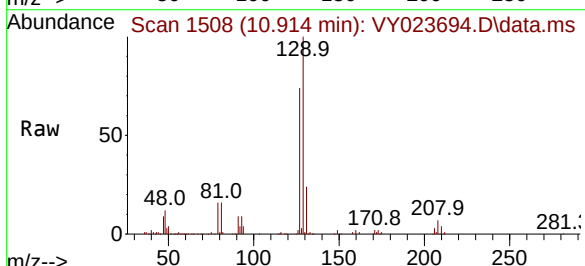
Tgt Ion: 43 Resp: 210570  
Ion Ratio Lower Upper  
43 100  
58 59.4 30.2 90.6

Manual Integrations  
APPROVED

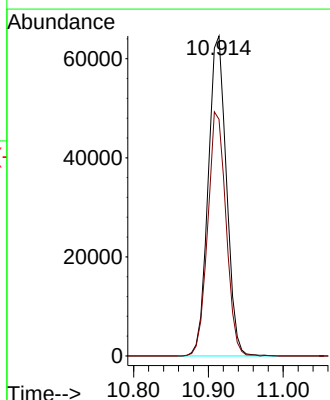
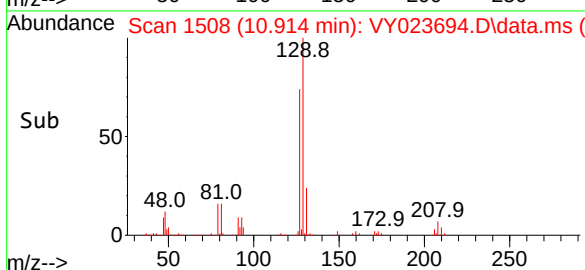
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



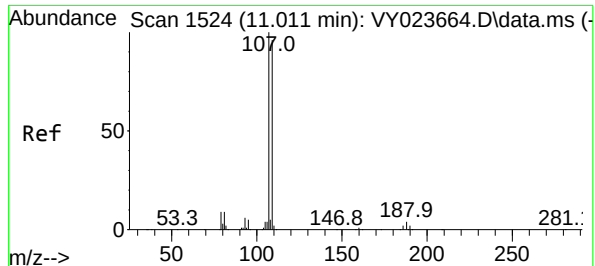
#60  
Dibromochloromethane  
Concen: 20.111 ug/l  
RT: 10.914 min Scan# 1508  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



Tgt Ion:129 Resp: 109268  
Ion Ratio Lower Upper  
129 100  
127 76.4 38.4 115.2

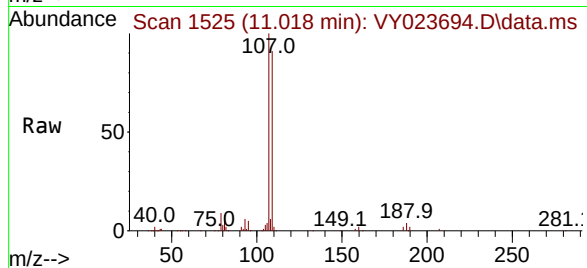






#61  
1,2-Dibromoethane  
Concen: 20.777 ug/l  
RT: 11.018 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

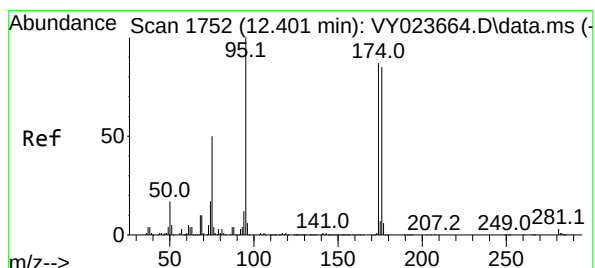
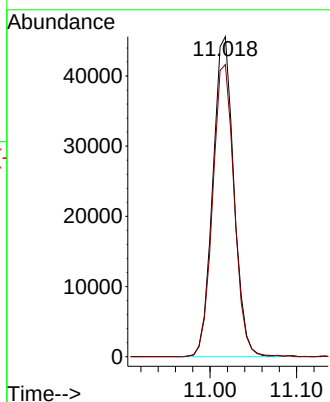
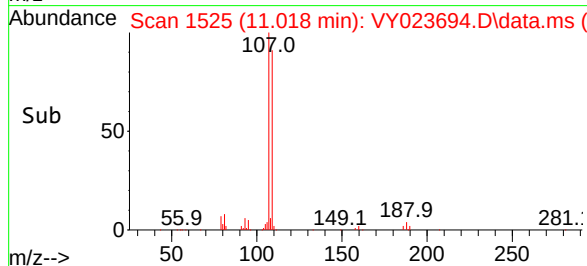
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



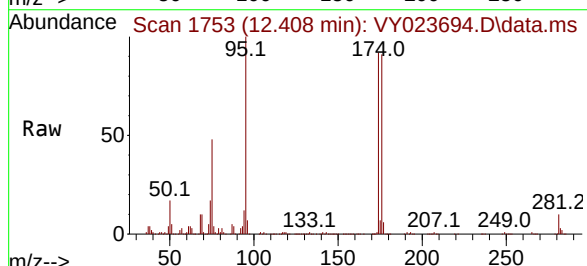
Tgt Ion:107 Resp: 77104  
Ion Ratio Lower Upper  
107 100  
109 92.9 76.2 114.4

Manual Integrations  
APPROVED

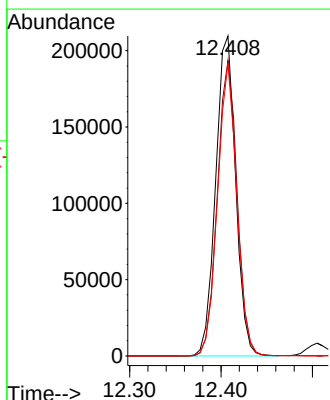
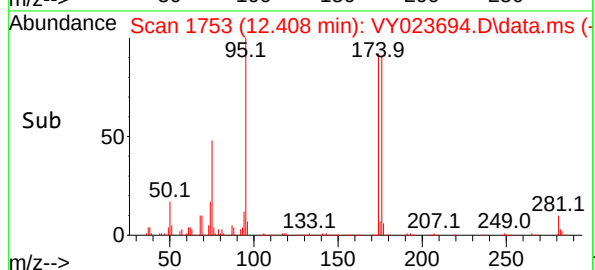
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

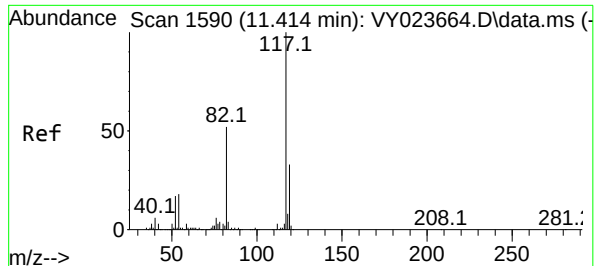


#62  
4-Bromofluorobenzene  
Concen: 51.574 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



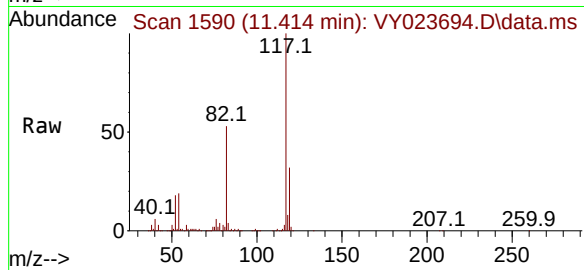
Tgt Ion: 95 Resp: 319171  
Ion Ratio Lower Upper  
95 100  
174 91.2 0.0 184.8  
176 88.0 0.0 181.6





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

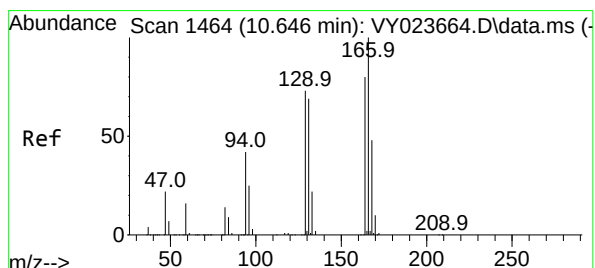
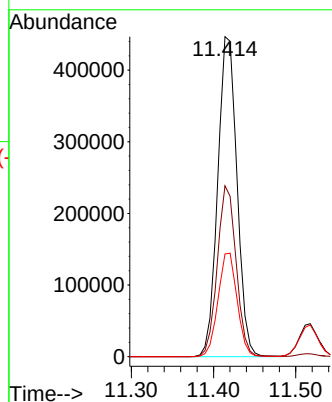
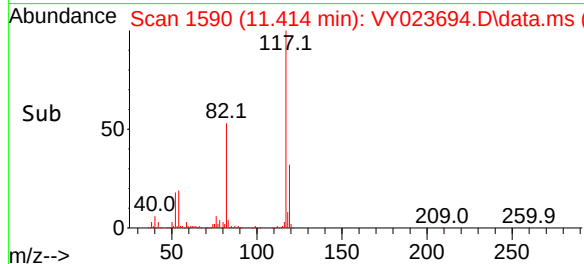
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



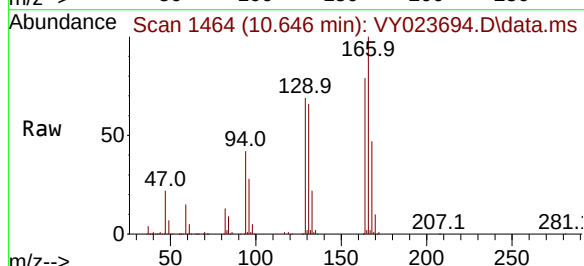
Tgt Ion:117 Resp: 72827  
Ion Ratio Lower Upper  
117 100  
82 53.4 41.2 61.8  
119 32.1 26.2 39.2

Manual Integrations  
APPROVED

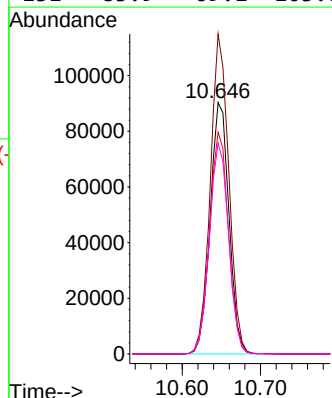
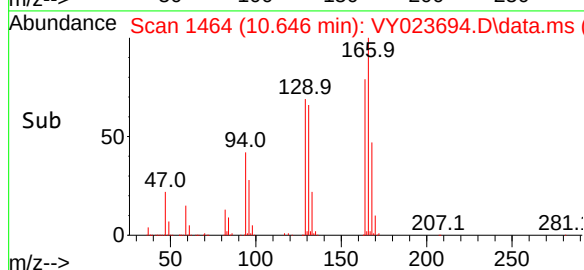
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

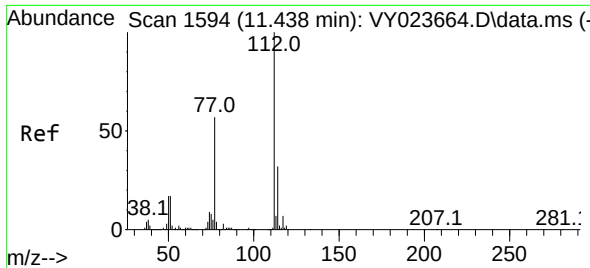


#64  
Tetrachloroethene  
Concen: 19.825 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



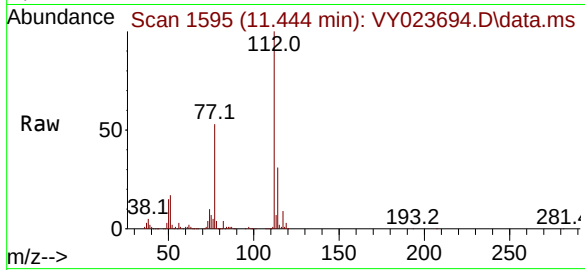
Tgt Ion:164 Resp: 150279  
Ion Ratio Lower Upper  
164 100  
166 127.3 99.5 149.3  
129 88.2 72.3 108.5  
131 83.9 69.1 103.7





#65  
Chlorobenzene  
Concen: 19.889 ug/l  
RT: 11.444 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

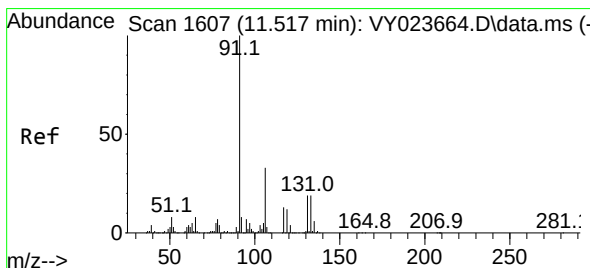
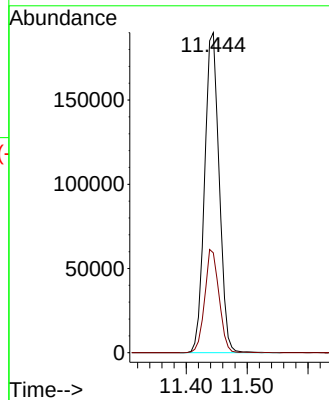
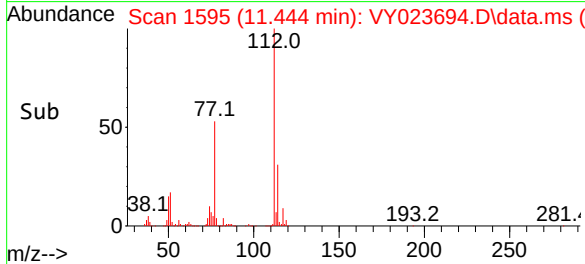
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:112 Resp: 315324  
Ion Ratio Lower Upper  
112 100  
114 31.2 25.8 38.6

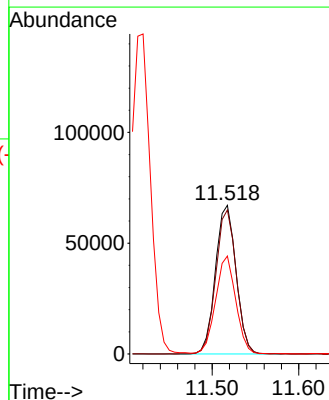
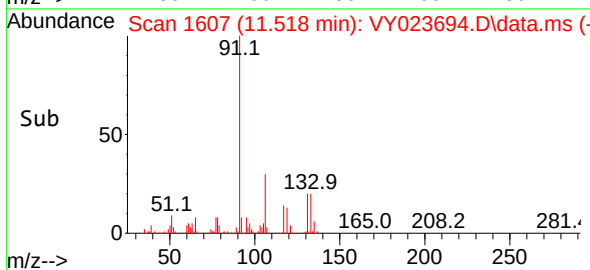
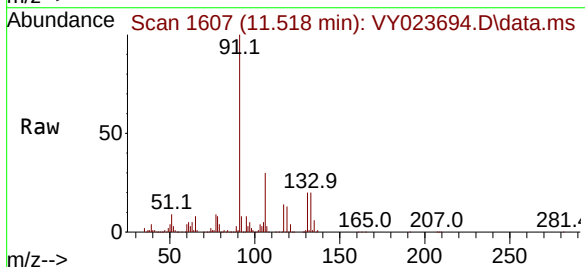
Manual Integrations  
APPROVED

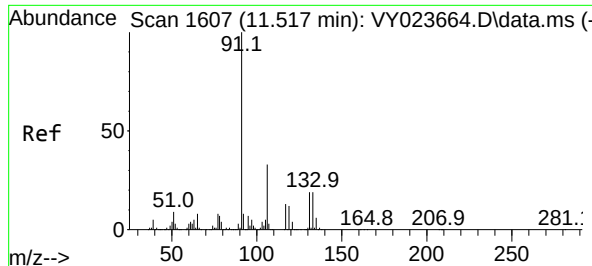
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.767 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

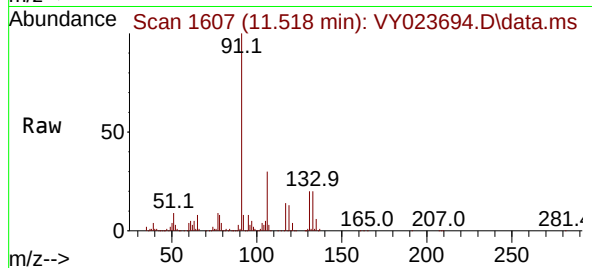
Tgt Ion:131 Resp: 110820  
Ion Ratio Lower Upper  
131 100  
133 96.3 47.3 141.8  
119 64.8 32.5 97.4





#67  
Ethyl Benzene  
Concen: 19.883 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

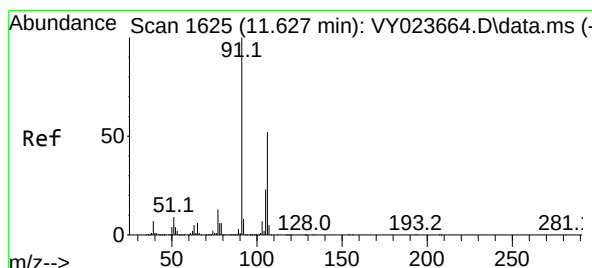
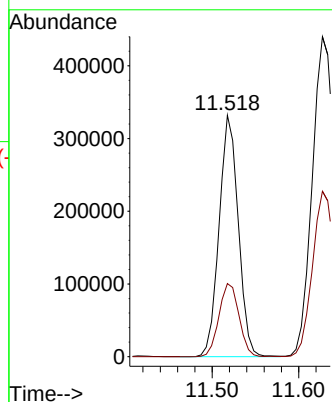
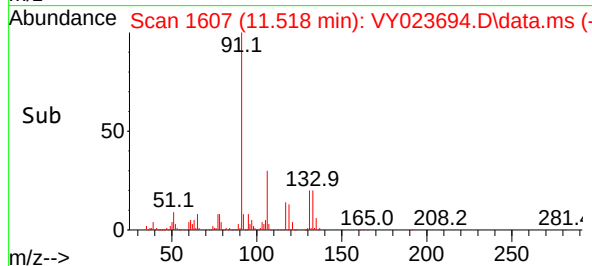
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



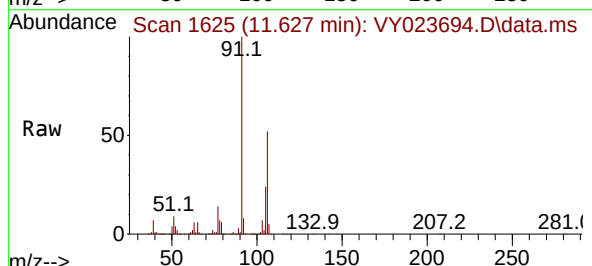
Tgt Ion: 91 Resp: 51020  
Ion Ratio Lower Upper  
91 100  
106 30.3 26.6 40.0

Manual Integrations  
APPROVED

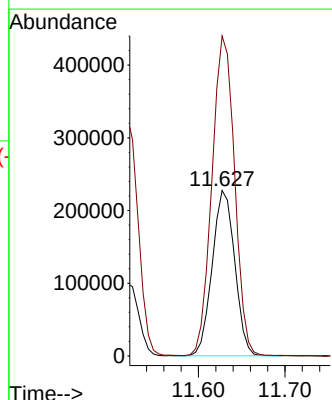
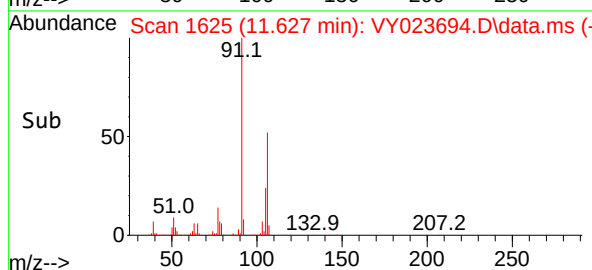
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

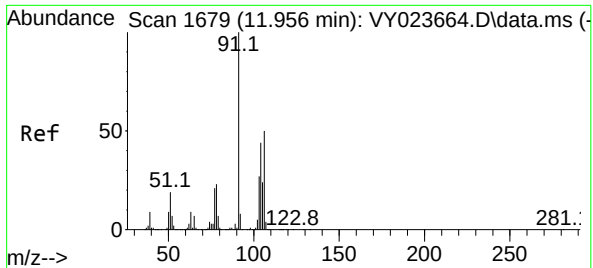


#68  
m/p-Xylenes  
Concen: 40.142 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



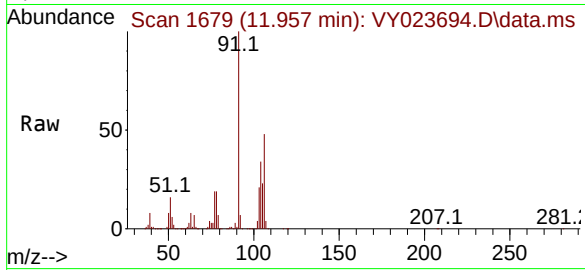
Tgt Ion:106 Resp: 411539  
Ion Ratio Lower Upper  
106 100  
91 194.5 154.3 231.5





#69  
o-Xylene  
Concen: 19.603 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

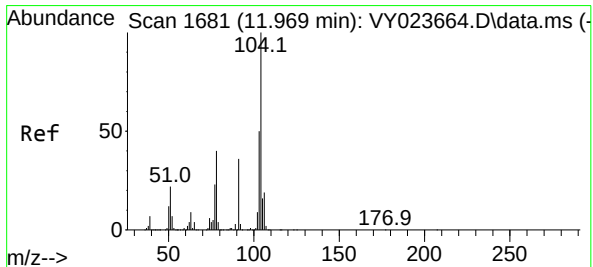
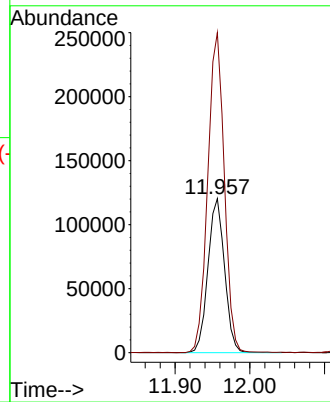
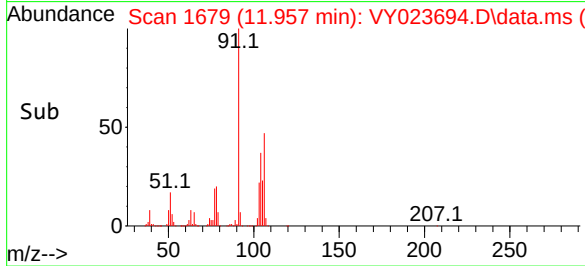
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:106 Resp: 185778  
Ion Ratio Lower Upper  
106 100  
91 207.2 101.6 304.6

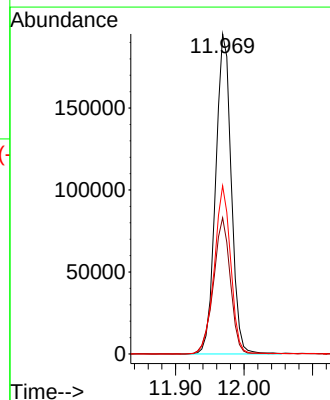
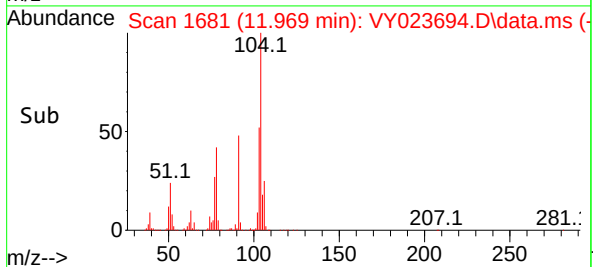
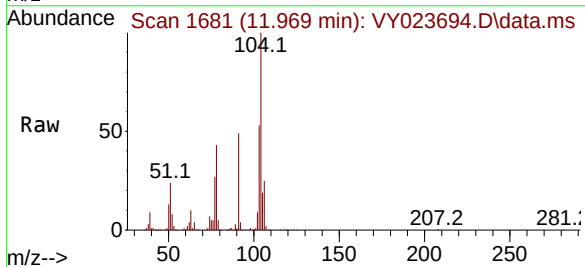
Manual Integrations  
APPROVED

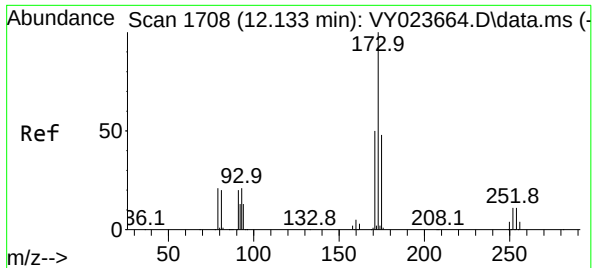
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#70  
Styrene  
Concen: 19.796 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

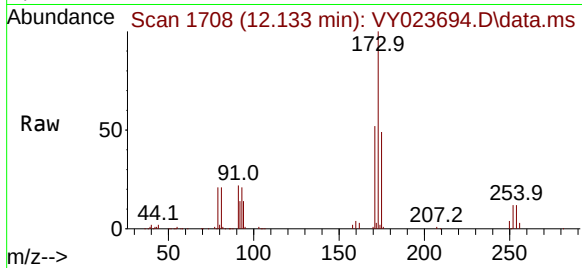
Tgt Ion:104 Resp: 309544  
Ion Ratio Lower Upper  
104 100  
78 45.9 36.5 54.7  
103 55.0 43.7 65.5





#71  
Bromoform  
Concen: 19.885 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

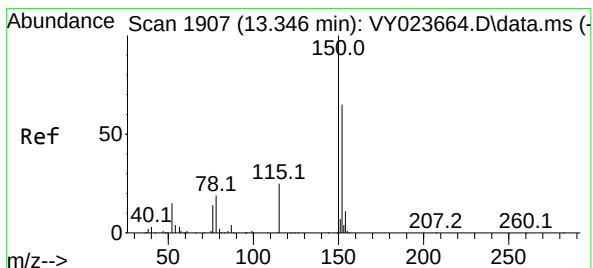
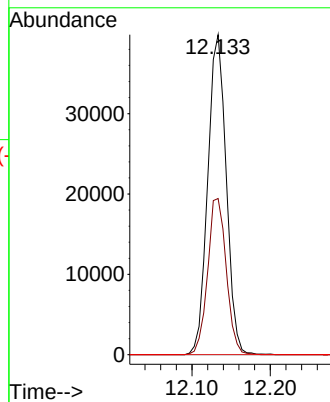
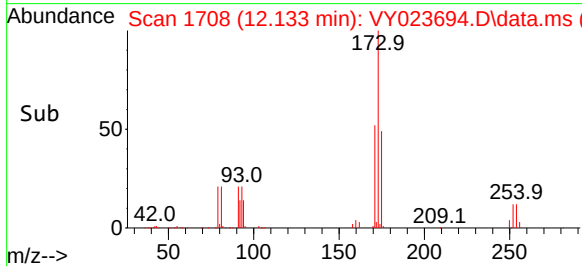
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



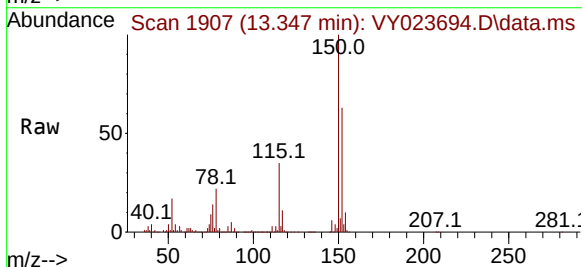
Tgt Ion:173 Resp: 65110  
Ion Ratio Lower Upper  
173 100  
175 49.3 24.2 72.6  
254 0.0 0.2 0.2

Manual Integrations  
APPROVED

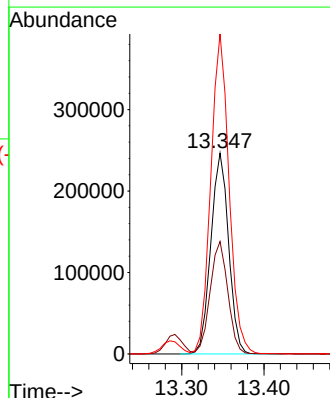
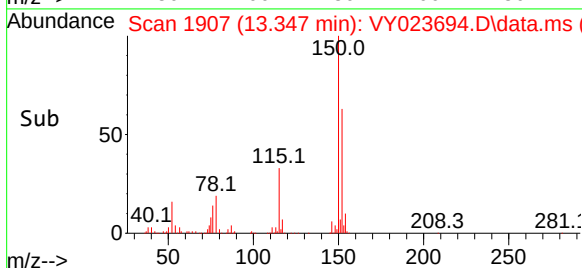
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

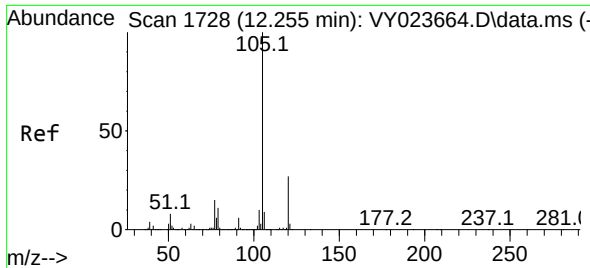


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



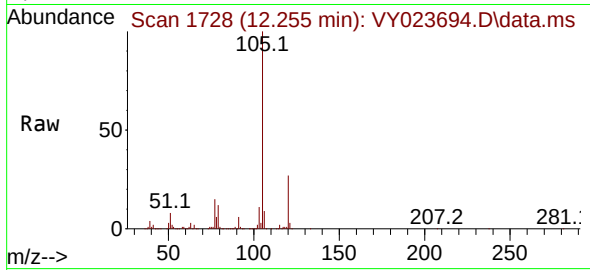
Tgt Ion:152 Resp: 370507  
Ion Ratio Lower Upper  
152 100  
115 55.5 27.5 82.5  
150 163.4 0.0 349.0





#73  
Isopropylbenzene  
Concen: 19.617 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

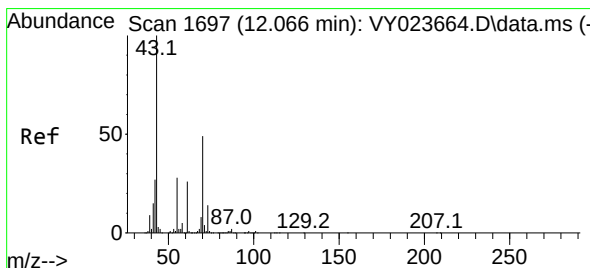
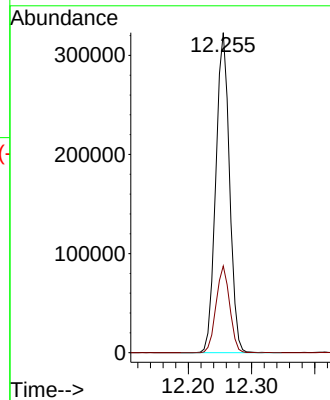
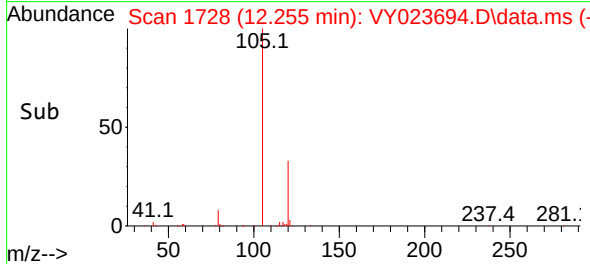
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:105 Resp: 486110  
Ion Ratio Lower Upper  
105 100  
120 26.9 13.6 40.7

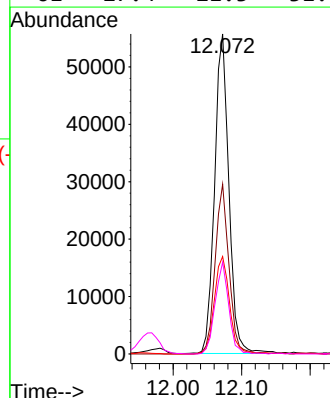
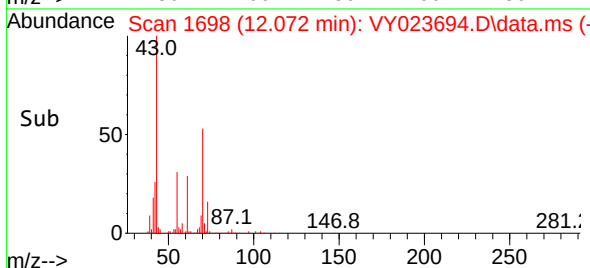
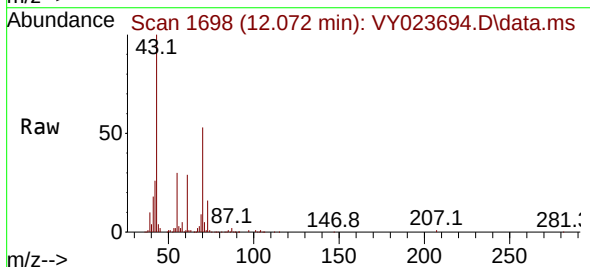
Manual Integrations  
APPROVED

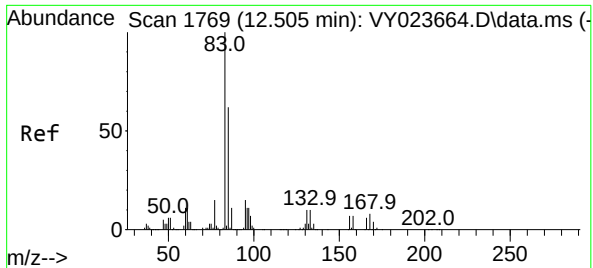
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#74  
N-ethyl acetate  
Concen: 19.225 ug/l  
RT: 12.072 min Scan# 1698  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

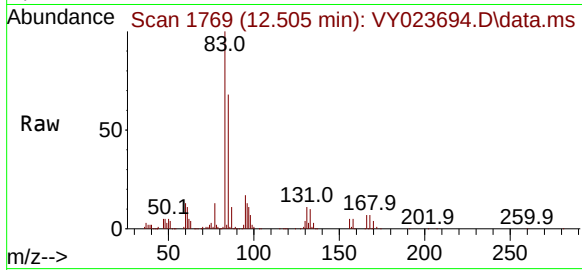
Tgt Ion: 43 Resp: 80659  
Ion Ratio Lower Upper  
43 100  
70 51.4 40.1 60.1  
55 32.6 23.0 34.6  
61 27.4 21.3 31.9





#75  
1,1,2,2-Tetrachloroethane  
Concen: 20.465 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

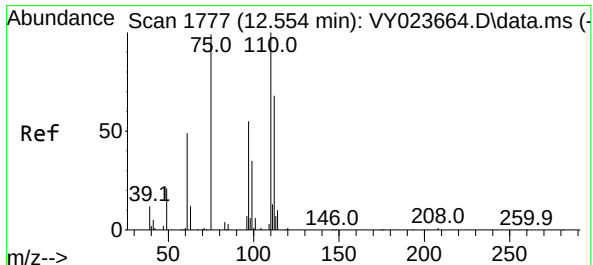
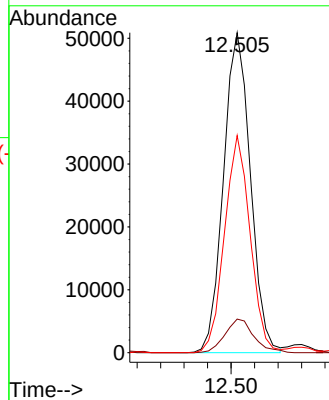
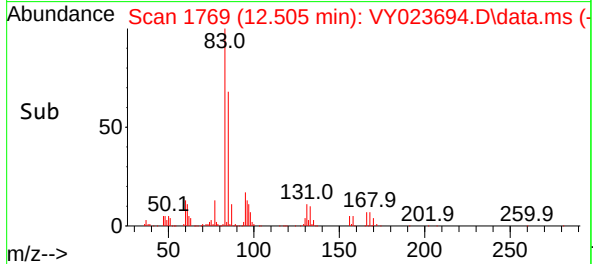
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 83 Resp: 8099  
Ion Ratio Lower Upper  
83 100  
131 11.2 5.7 17.0  
85 64.6 31.9 95.7

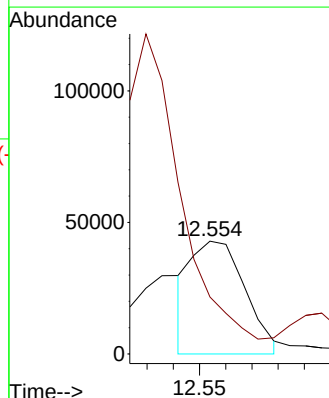
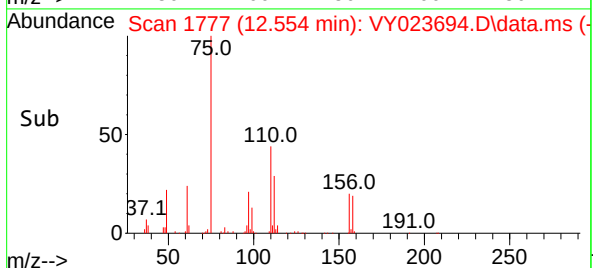
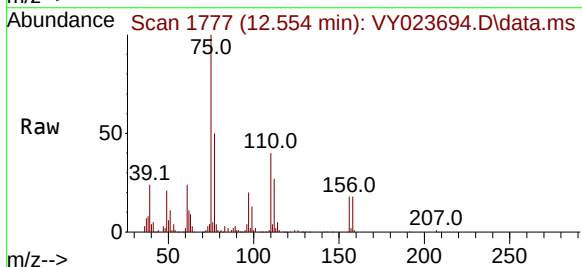
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

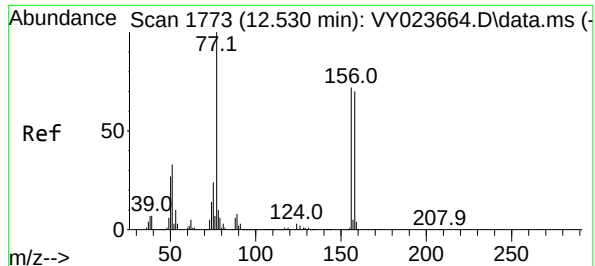


#76  
1,2,3-Trichloropropane  
Concen: 20.496 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Tgt Ion: 75 Resp: 61459  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0







#77

Bromobenzene

Concen: 19.331 ug/l

RT: 12.536 min Scan# 1773

Delta R.T. 0.006 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:156 Resp: 124250

Ion Ratio Lower Upper

156 100

77 165.1 77.9 233.7

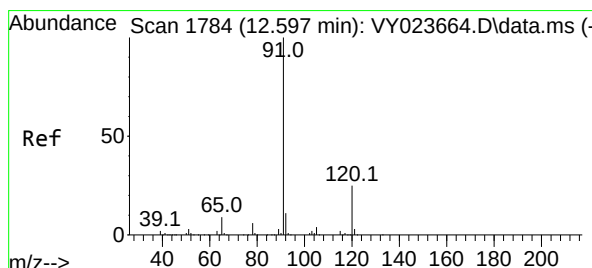
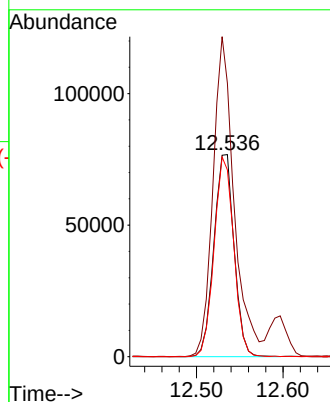
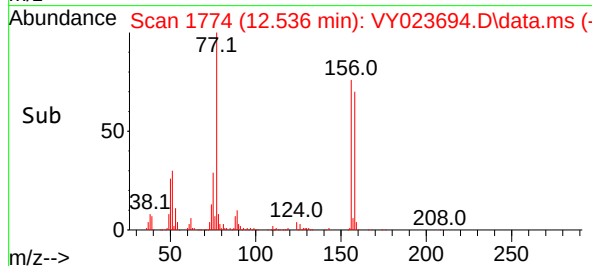
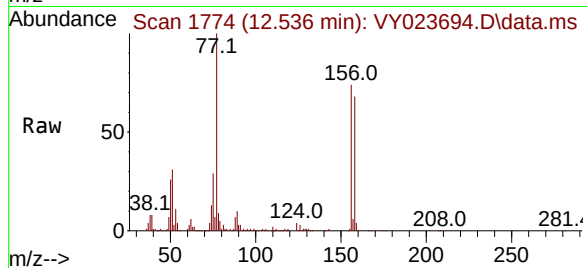
158 96.2 48.5 145.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#78

n-propylbenzene

Concen: 20.167 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VY023694.D

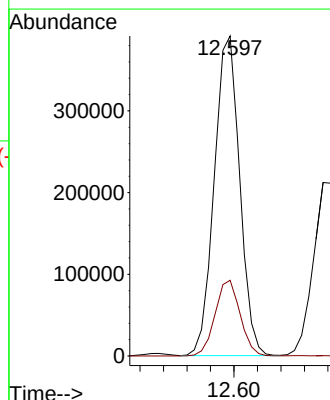
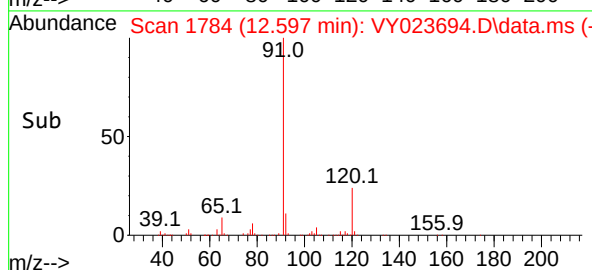
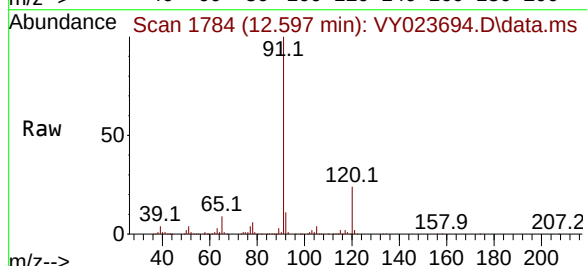
Acq: 06 Nov 2025 09:44

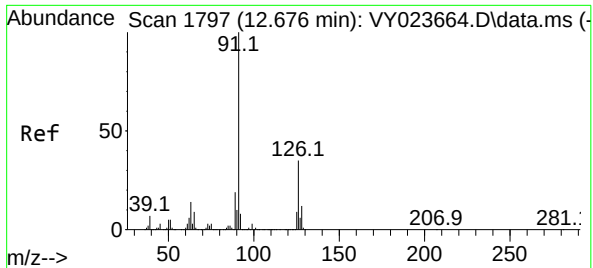
Tgt Ion: 91 Resp: 587824

Ion Ratio Lower Upper

91 100

120 23.4 12.0 36.1





#79

2-Chlorotoluene

Concen: 19.871 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 91 Resp: 336090

Ion Ratio Lower Upper

91 100

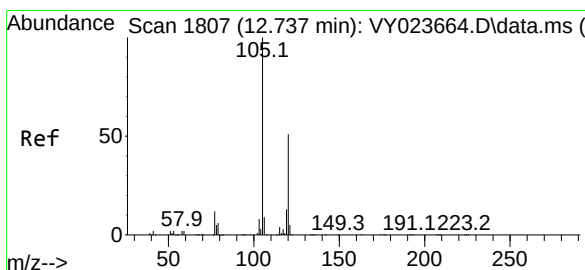
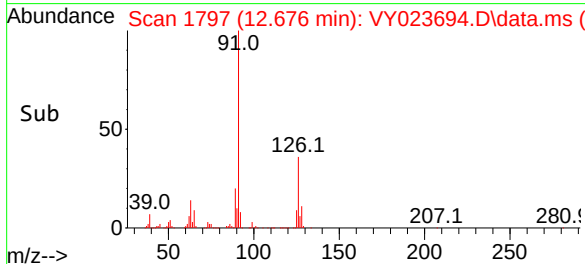
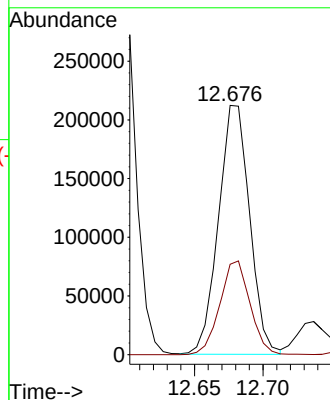
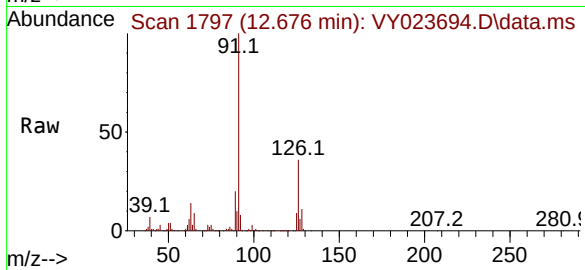
126 36.5 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.192 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023694.D

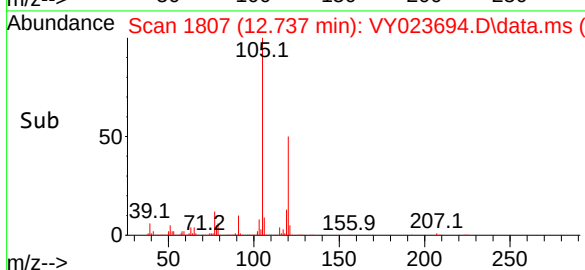
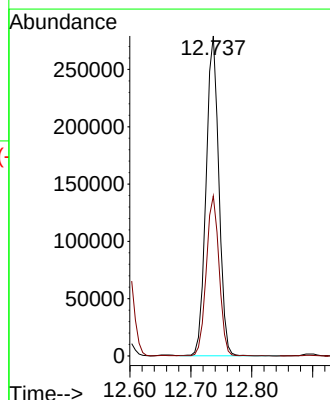
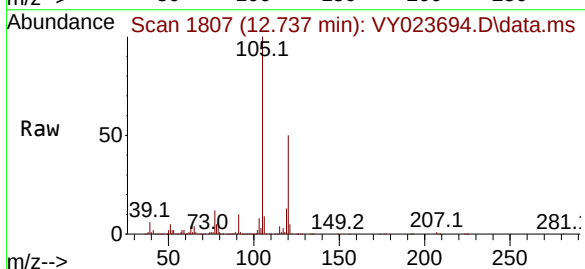
Acq: 06 Nov 2025 09:44

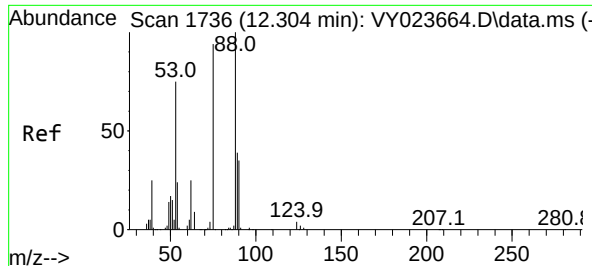
Tgt Ion:105 Resp: 406541

Ion Ratio Lower Upper

105 100

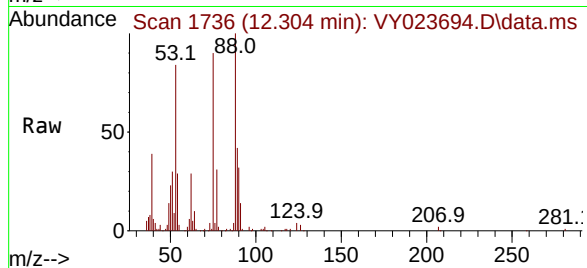
120 50.0 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 19.148 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

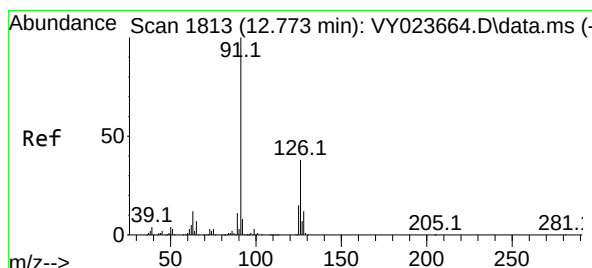
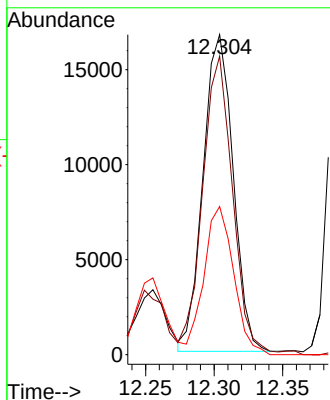
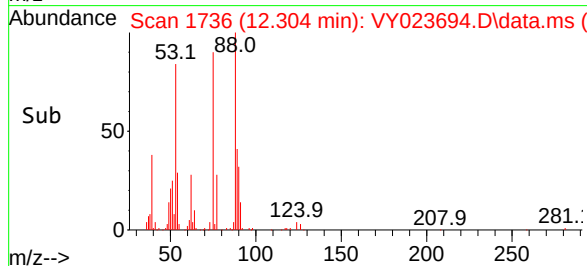
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 75 Resp: 25400  
Ion Ratio Lower Upper  
75 100  
53 94.9 69.6 104.4  
89 46.0 38.2 57.4

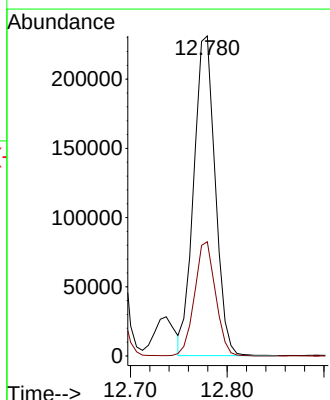
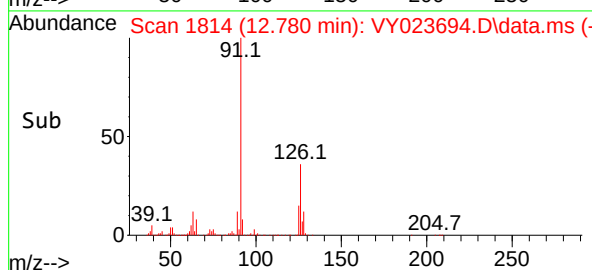
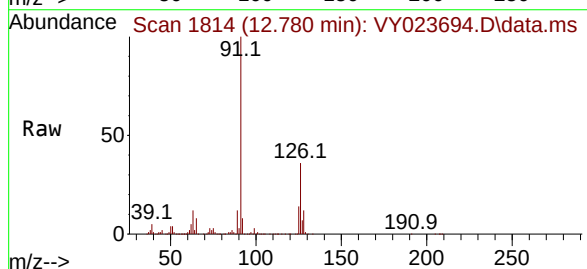
Manual Integrations  
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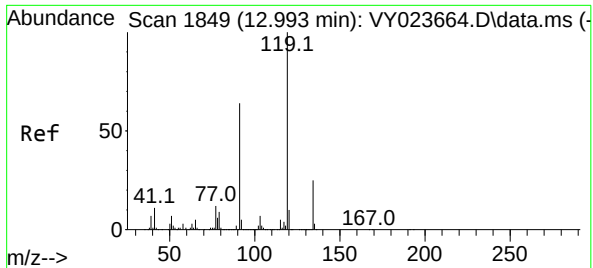
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#82  
4-Chlorotoluene  
Concen: 20.434 ug/l  
RT: 12.780 min Scan# 1814  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

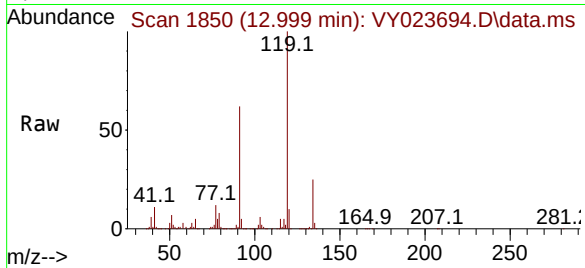
Tgt Ion: 91 Resp: 356437  
Ion Ratio Lower Upper  
91 100  
126 35.1 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 19.507 ug/l  
RT: 12.999 min Scan# 1850  
Delta R.T. 0.006 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

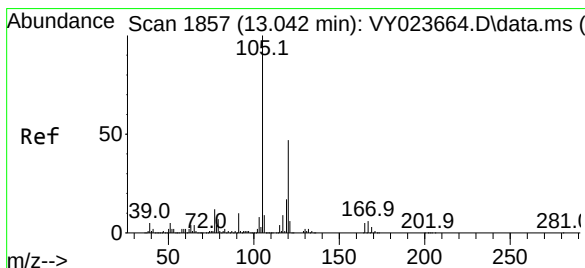
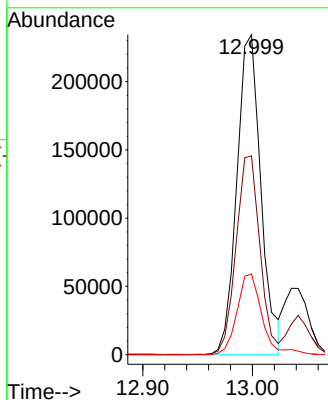
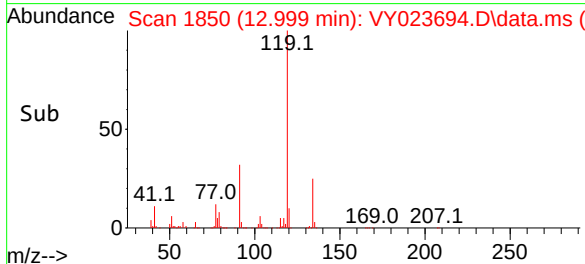
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:119 Resp: 357699  
Ion Ratio Lower Upper  
119 100  
91 61.8 30.7 92.1  
134 26.2 13.1 39.1

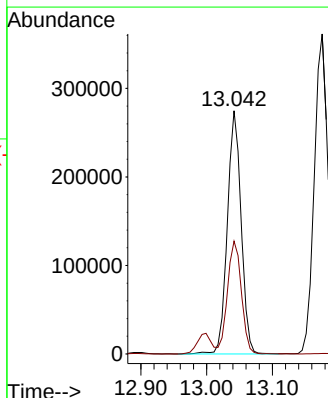
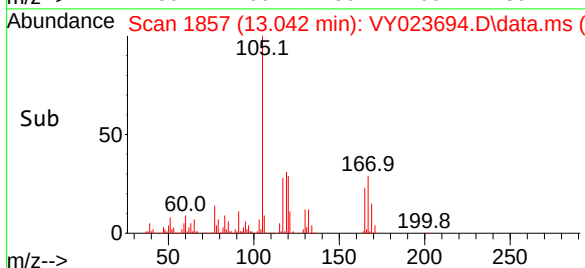
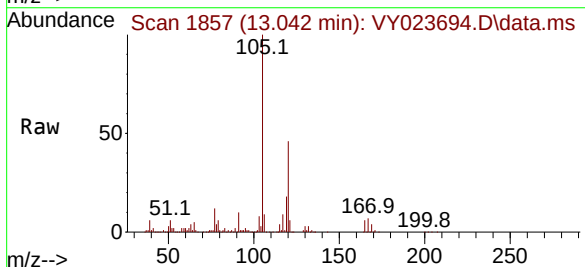
Manual Integrations  
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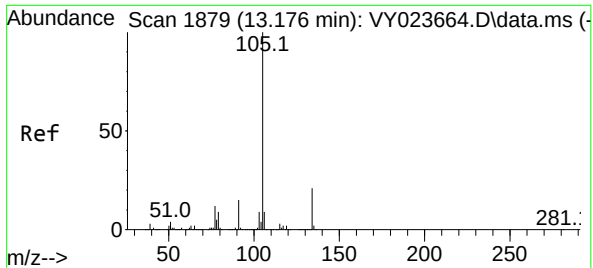
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#84  
1,2,4-Trimethylbenzene  
Concen: 20.108 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

Tgt Ion:105 Resp: 400981  
Ion Ratio Lower Upper  
105 100  
120 46.6 23.2 69.6





#85

sec-Butylbenzene

Concen: 19.941 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:105 Resp: 527410

Ion Ratio Lower Upper

105 100

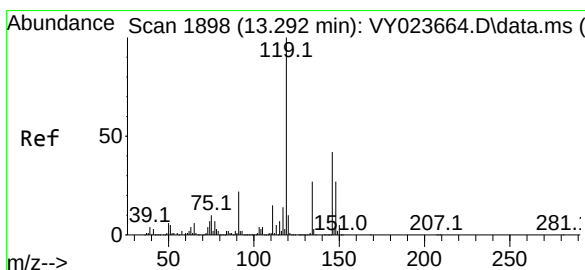
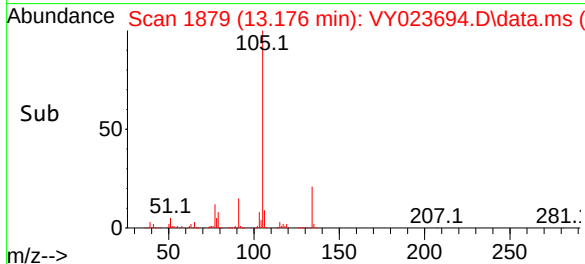
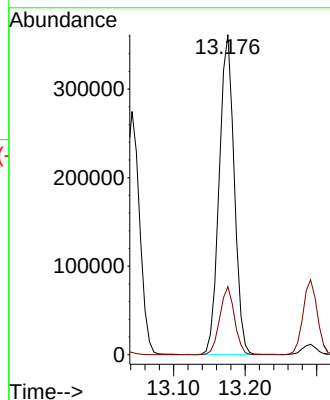
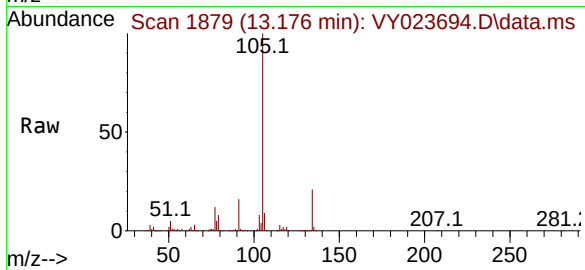
134 20.8 10.4 31.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#86

p-Isopropyltoluene

Concen: 19.713 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

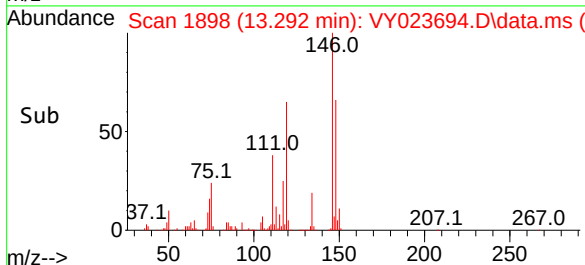
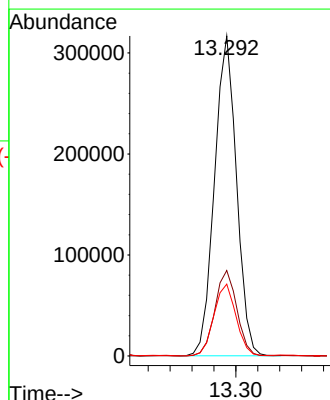
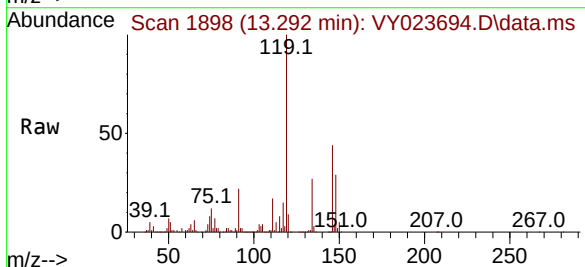
Tgt Ion:119 Resp: 441370

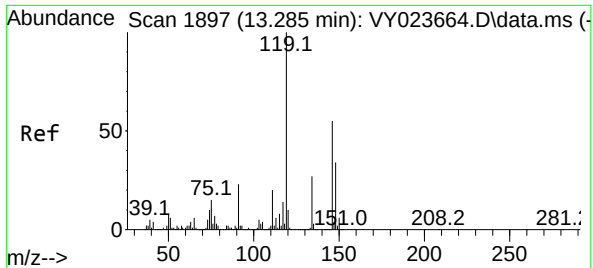
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 22.5 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 19.465 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023694.D

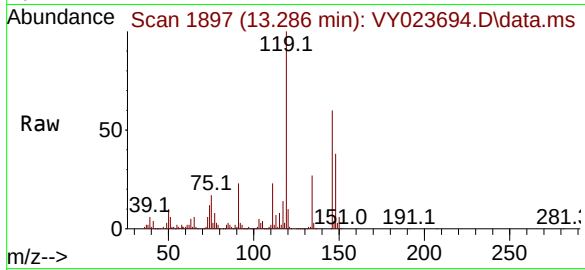
Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion:146 Resp: 246260

Ion Ratio Lower Upper

146 100

111 37.8 18.8 56.3

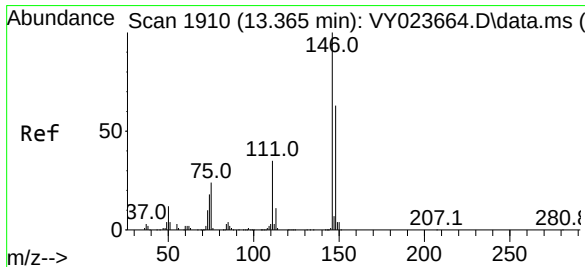
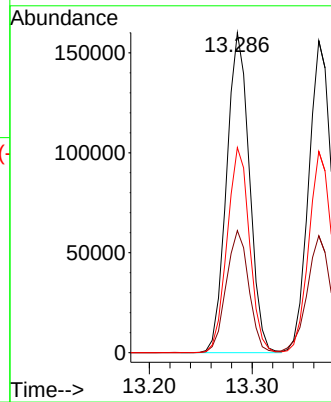
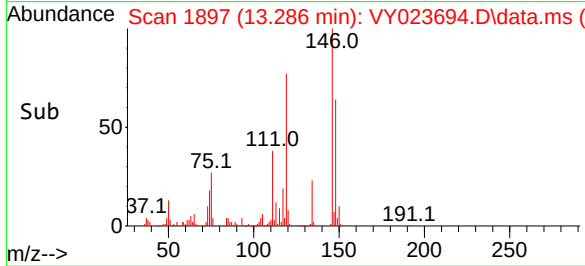
148 63.1 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#88

1,4-Dichlorobenzene

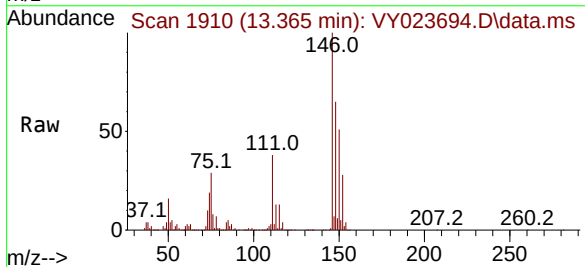
Concen: 19.444 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44



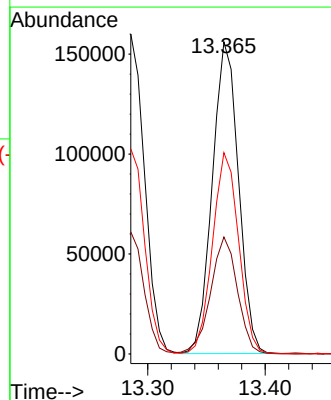
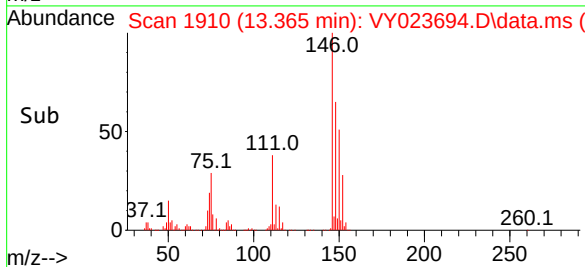
Tgt Ion:146 Resp: 241645

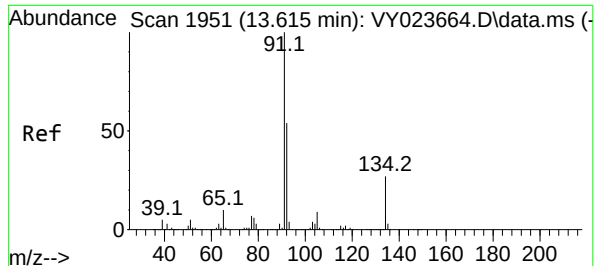
Ion Ratio Lower Upper

146 100

111 38.6 18.3 54.8

148 64.3 31.8 95.3





#89

n-Butylbenzene

Concen: 19.533 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 91 Resp: 380300

Ion Ratio Lower Upper

91 100

92 52.1 26.5 79.4

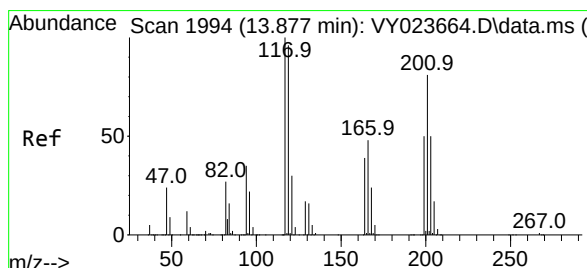
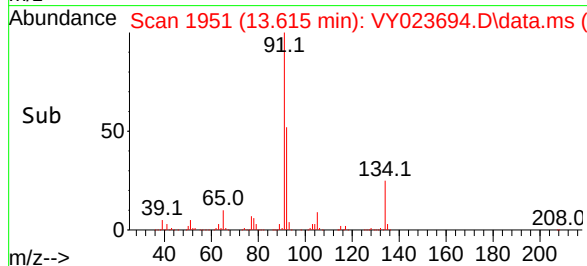
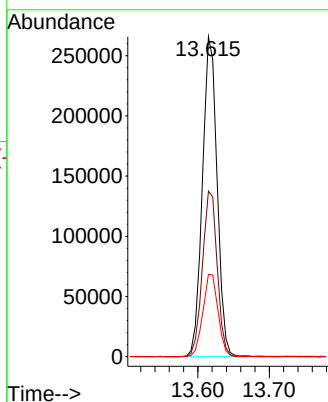
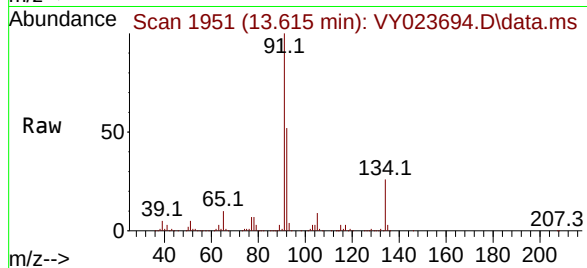
134 26.5 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#90

Hexachloroethane

Concen: 19.234 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023694.D

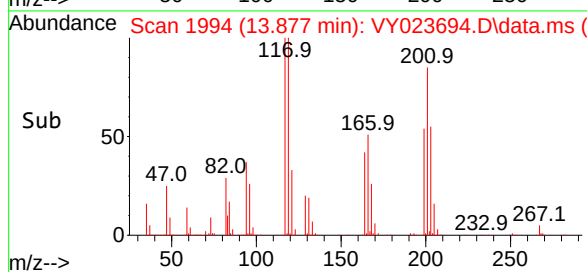
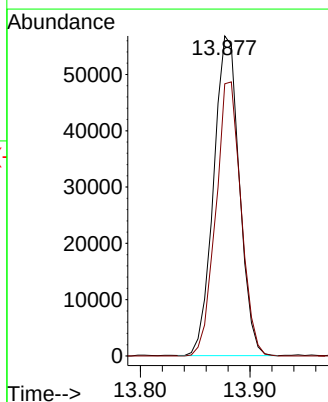
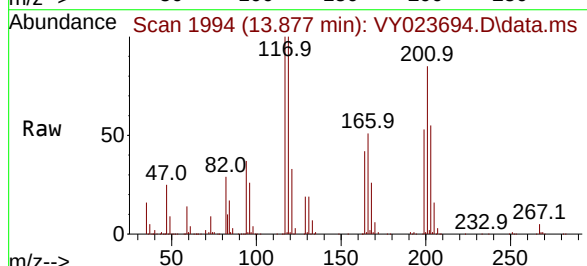
Acq: 06 Nov 2025 09:44

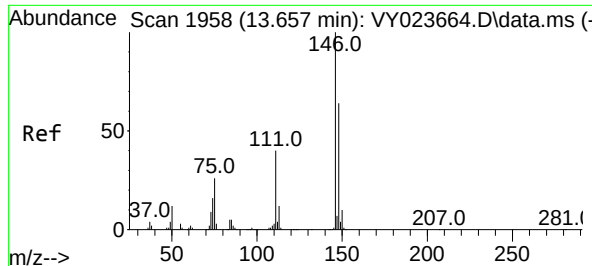
Tgt Ion:117 Resp: 92548

Ion Ratio Lower Upper

117 100

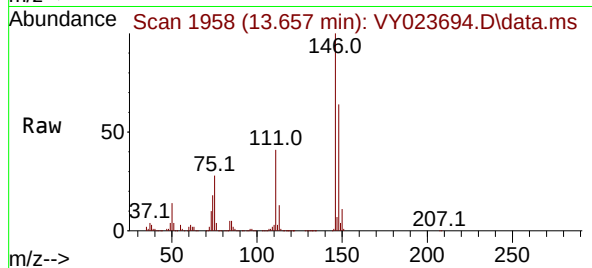
201 84.1 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 19.684 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44

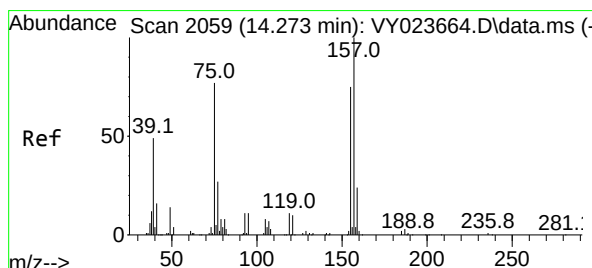
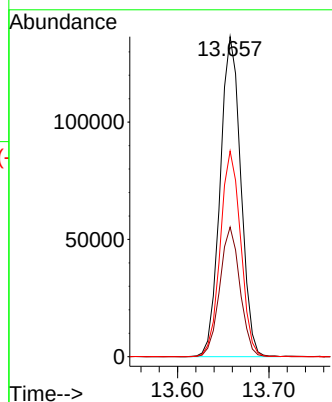
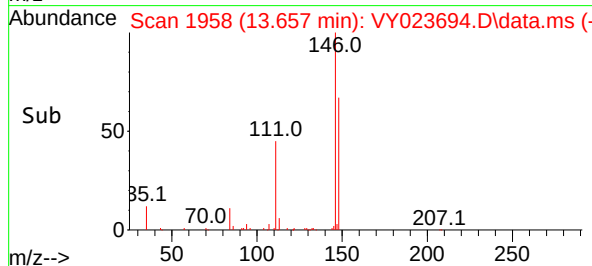
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



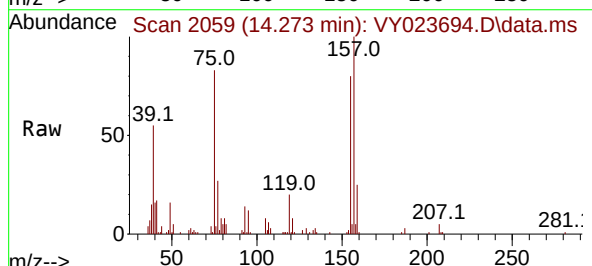
Tgt Ion:146 Resp: 21461  
Ion Ratio Lower Upper  
146 100  
111 39.7 19.5 58.5  
148 63.4 31.9 95.9

Manual Integrations  
APPROVED

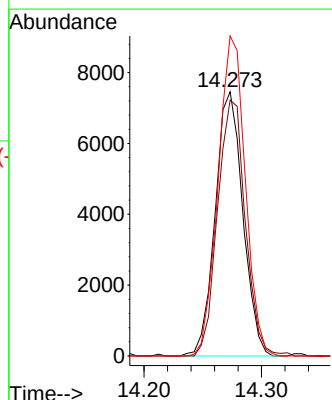
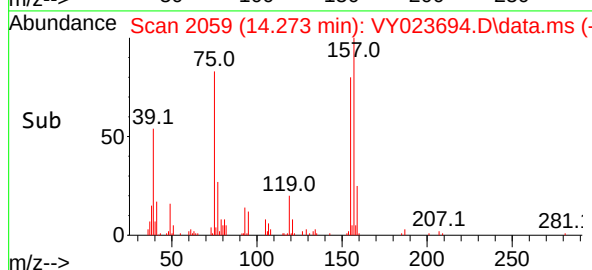
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



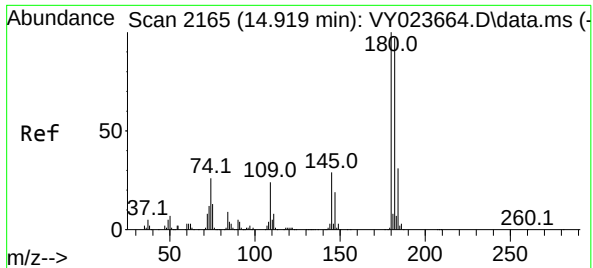
#92  
1,2-Dibromo-3-Chloropropane  
Concen: 19.960 ug/l  
RT: 14.273 min Scan# 2059  
Delta R.T. 0.000 min  
Lab File: VY023694.D  
Acq: 06 Nov 2025 09:44



Tgt Ion: 75 Resp: 12163  
Ion Ratio Lower Upper  
75 100  
155 97.4 49.4 148.2  
157 119.0 63.2 189.8







#93

1,2,4-Trichlorobenzene

Concen: 18.912 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:180 Resp: 11793

Ion Ratio Lower Upper

180 100

182 94.5 47.5 142.6

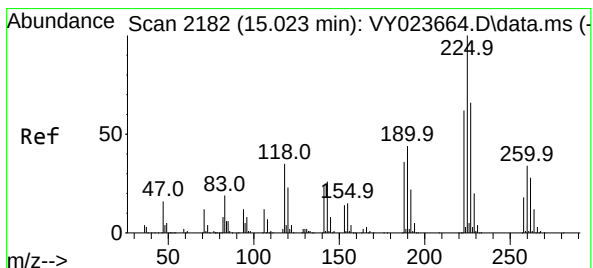
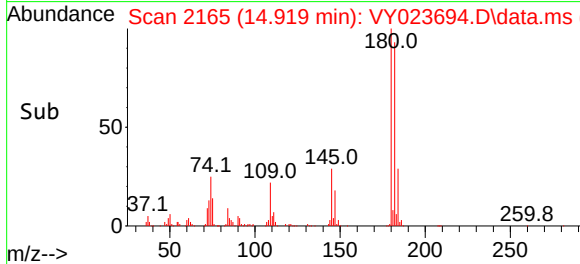
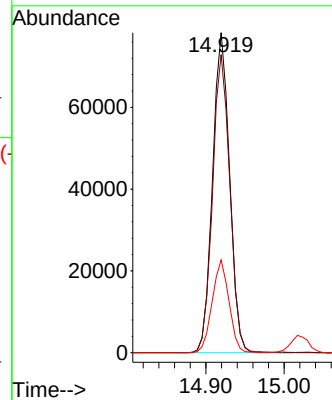
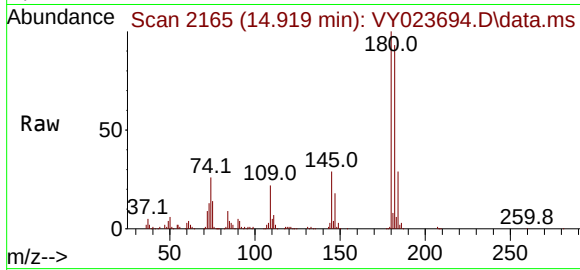
145 28.6 14.4 43.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#94

Hexachlorobutadiene

Concen: 18.932 ug/l

RT: 15.023 min Scan# 2182

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

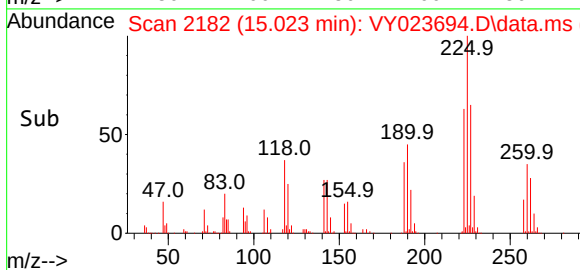
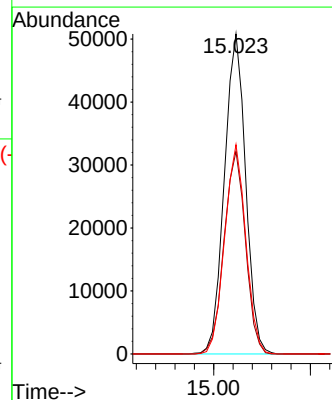
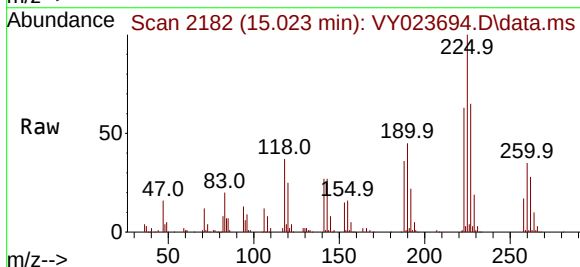
Tgt Ion:225 Resp: 77357

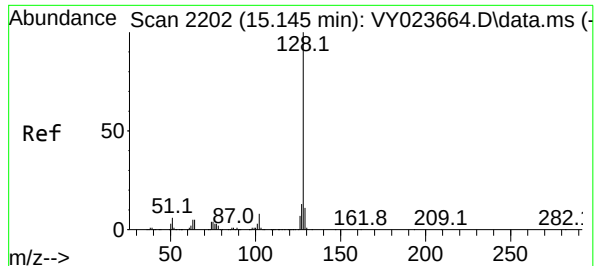
Ion Ratio Lower Upper

225 100

223 63.6 30.8 92.3

227 65.0 32.0 96.2





#95

Naphthalene

Concen: 19.242 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:128 Resp: 170340

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

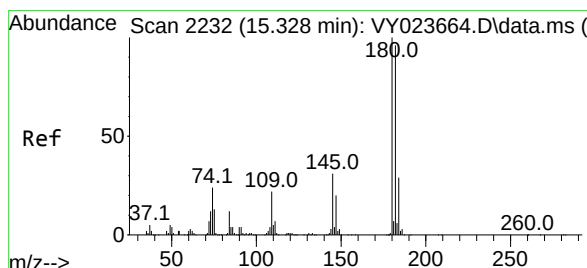
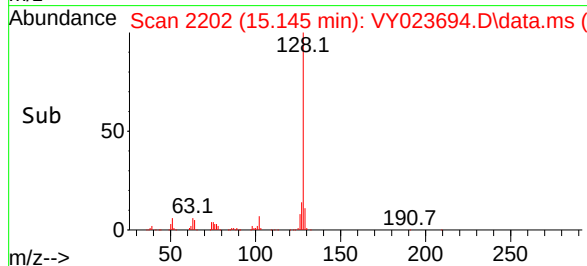
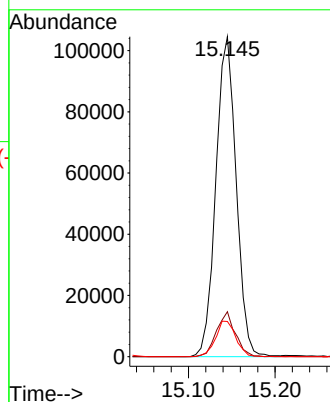
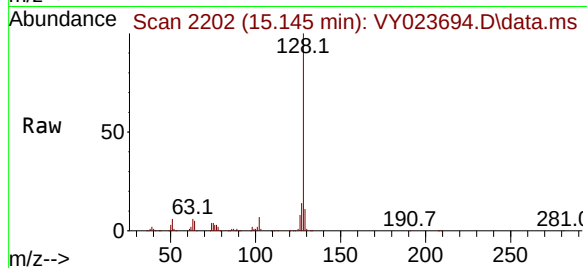
129 11.2 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.551 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY023694.D

Acq: 06 Nov 2025 09:44

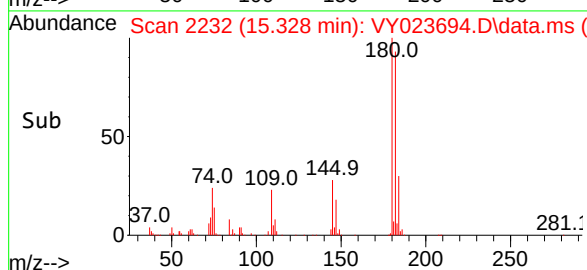
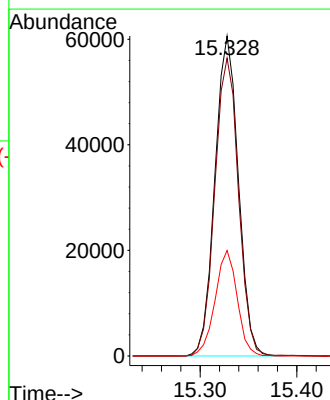
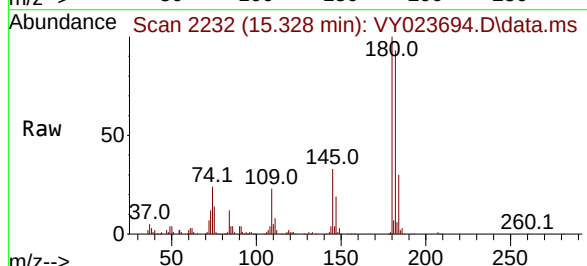
Tgt Ion:180 Resp: 101868

Ion Ratio Lower Upper

180 100

182 93.9 47.5 142.6

145 31.1 15.5 46.5



### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBSD01

Lab Sample ID: VY1106SBSD01

Analytical Method: 8260D

Level: LOW

Sample Wt/Vol: 5 g

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number     | Parameter                      | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|----------------|--------------------------------|-------|------|----|------|------------|-------|----------------|----------|
| <b>TARGETS</b> |                                |       |      |    |      |            |       |                |          |
| 75-71-8        | Dichlorodifluoromethane        | 22.5  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 74-87-3        | Chloromethane                  | 22.4  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-01-4        | Vinyl Chloride                 | 21.3  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 141-78-6       | Ethyl Acetate                  | 21.5  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-21-4       | Isopropyl Acetate              | 21.5  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 74-83-9        | Bromomethane                   | 21.1  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-00-3        | Chloroethane                   | 21.4  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 109-99-9       | Tetrahydrofuran                | 110   |      | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-69-4        | Trichlorofluoromethane         | 20.7  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 20.9  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-65-0        | Tert butyl alcohol             | 140   |      | 1  | 13.7 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 60-29-7        | Diethyl Ether                  | 21.7  |      | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-35-4        | 1,1-Dichloroethene             | 20.6  |      | 1  | 1.00 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 107-02-8       | Acrolein                       | 110   |      | 1  | 8.80 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 107-13-1       | Acrylonitrile                  | 110   |      | 1  | 5.00 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 67-64-1        | Acetone                        | 120   |      | 1  | 4.70 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-15-0        | Carbon Disulfide               | 21.5  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 1634-04-4      | Methyl tert-butyl Ether        | 21.4  |      | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 79-20-9        | Methyl Acetate                 | 21.3  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-09-2        | Methylene Chloride             | 23.3  |      | 1  | 3.50 | 10.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 156-60-5       | trans-1,2-Dichloroethene       | 20.8  |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-05-4       | Vinyl Acetate                  | 110   |      | 1  | 4.90 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-34-3        | 1,1-Dichloroethane             | 21.3  |      | 1  | 0.80 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 110-82-7       | Cyclohexane                    | 21.1  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 78-93-3        | 2-Butanone                     | 120   |      | 1  | 6.50 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 56-23-5        | Carbon Tetrachloride           | 20.2  |      | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 594-20-7       | 2,2-Dichloropropane            | 21.5  |      | 1  | 1.30 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 156-59-2       | cis-1,2-Dichloroethene         | 21.3  |      | 1  | 0.75 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 74-97-5        | Bromochloromethane             | 22.4  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 67-66-3        | Chloroform                     | 21.3  |      | 1  | 0.84 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 71-55-6        | 1,1,1-Trichloroethane          | 21.0  |      | 1  | 0.93 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-87-2       | Methylcyclohexane              | 20.1  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 563-58-6       | 1,1-Dichloropropene            | 20.6  |      | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 71-43-2        | Benzene                        | 21.2  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 107-06-2       | 1,2-Dichloroethane             | 21.4  |      | 1  | 0.79 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 79-01-6        | Trichloroethene                | 20.6  |      | 1  | 0.81 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 78-87-5        | 1,2-Dichloropropane            | 21.3  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 74-95-3        | Dibromomethane                 | 21.1  |      | 1  | 0.89 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-27-4        | Bromodichloromethane           | 21.3  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-10-1       | 4-Methyl-2-Pentanone           | 110   |      | 1  | 3.60 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 80-62-6        | Methyl methacrylate            | 20.8  |      | 1  | 0.74 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-88-3       | Toluene                        | 21.1  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 10061-02-6     | t-1,3-Dichloropropene          | 21.3  |      | 1  | 0.65 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |

### Report of Analysis

Client: Alliance Technical Group, LLC - Newark

Project: NJ Soil PT

Client Sample ID: VY1106SBSD01

Lab Sample ID: VY1106SBSD01

Analytical Method: 8260D

Level: LOW

Sample Wt/Vol: 5 g

Final Vol: 5000 uL

Date Collected:

Date Received:

SDG No.: Q3483

Matrix: SOIL

% Solid: 100

Test: VOCMS Group1

| CAS Number  | Parameter                   | Conc. | Qua. | DF | MDL  | LOQ / CRQL | Units | Date Ana.      | BatchID  |
|-------------|-----------------------------|-------|------|----|------|------------|-------|----------------|----------|
| 10061-01-5  | cis-1,3-Dichloropropene     | 21.0  |      | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 79-00-5     | 1,1,2-Trichloroethane       | 21.3  |      | 1  | 0.92 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 142-28-9    | 1,3-Dichloropropane         | 21.5  |      | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 110-75-8    | 2-Chloroethyl Vinyl ether   | 100   |      | 1  | 3.80 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 591-78-6    | 2-Hexanone                  | 110   |      | 1  | 3.70 | 25.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 124-48-1    | Dibromochloromethane        | 20.6  |      | 1  | 0.87 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 106-93-4    | 1,2-Dibromoethane           | 21.3  |      | 1  | 0.88 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 127-18-4    | Tetrachloroethene           | 20.1  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-90-7    | Chlorobenzene               | 20.4  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane   | 20.5  |      | 1  | 0.77 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 67-72-1     | Hexachloroethane            | 20.6  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 100-41-4    | Ethyl Benzene               | 20.5  |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 179601-23-1 | m/p-Xylenes                 | 41.2  |      | 1  | 1.20 | 10.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 1330-20-7   | Total Xylenes               | 61.3  |      | 1  | 2.02 | 15.0       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 95-47-6     | o-Xylene                    | 20.1  |      | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 100-42-5    | Styrene                     | 20.6  |      | 1  | 0.71 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 75-25-2     | Bromoform                   | 21.0  |      | 1  | 0.86 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 98-82-8     | Isopropylbenzene            | 20.4  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane   | 21.6  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 96-18-4     | 1,2,3-Trichloropropane      | 20.8  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-86-1    | Bromobenzene                | 20.5  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 103-65-1    | n-propylbenzene             | 20.9  |      | 1  | 0.73 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 95-49-8     | 2-Chlorotoluene             | 20.7  |      | 1  | 0.68 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 108-67-8    | 1,3,5-Trimethylbenzene      | 20.9  |      | 1  | 0.82 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 106-43-4    | 4-Chlorotoluene             | 20.9  |      | 1  | 1.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 98-06-6     | tert-Butylbenzene           | 19.9  |      | 1  | 0.67 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 95-63-6     | 1,2,4-Trimethylbenzene      | 21.1  |      | 1  | 0.64 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 135-98-8    | sec-Butylbenzene            | 20.4  |      | 1  | 0.66 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 99-87-6     | p-Isopropyltoluene          | 20.4  |      | 1  | 0.62 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 541-73-1    | 1,3-Dichlorobenzene         | 20.5  |      | 1  | 1.70 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 106-46-7    | 1,4-Dichlorobenzene         | 20.4  |      | 1  | 1.60 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 104-51-8    | n-Butylbenzene              | 20.4  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 95-50-1     | 1,2-Dichlorobenzene         | 20.5  |      | 1  | 1.50 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 96-12-8     | 1,2-Dibromo-3-Chloropropane | 20.8  |      | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 120-82-1    | 1,2,4-Trichlorobenzene      | 20.4  |      | 1  | 3.00 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 87-68-3     | Hexachlorobutadiene         | 20.0  |      | 1  | 1.90 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 91-20-3     | Naphthalene                 | 20.5  |      | 1  | 2.60 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 87-61-6     | 1,2,3-Trichlorobenzene      | 20.7  |      | 1  | 3.20 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 628-63-7    | N-amyl acetate              | 20.7  |      | 1  | 0.97 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 74-88-4     | Methyl Iodide               | 19.6  |      | 1  | 0.91 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 107-05-1    | Allyl chloride              | 22.0  |      | 1  | 0.78 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 110-57-6    | trans-1,4-Dichloro-2-butene | 20.9  |      | 1  | 1.10 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |
| 126-98-7    | Methacrylonitrile           | 17.8  |      | 1  | 1.80 | 5.00       | ug/Kg | 11/06/25 10:07 | VY110625 |



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

## Report of Analysis

|                    |                                        |                 |              |
|--------------------|----------------------------------------|-----------------|--------------|
| Client:            | Alliance Technical Group, LLC - Newark | Date Collected: |              |
| Project:           | NJ Soil PT                             | Date Received:  |              |
| Client Sample ID:  | VY1106SBSD01                           | SDG No.:        | Q3483        |
| Lab Sample ID:     | VY1106SBSD01                           | Matrix:         | SOIL         |
| Analytical Method: | 8260D                                  | % Solid:        | 100          |
| Sample Wt/Vol:     | 5 g                                    | Test:           | VOCMS Group1 |
|                    | Level: LOW                             |                 |              |
|                    | Final Vol: 5000 uL                     |                 |              |

| CAS Number                | Parameter              | Conc.             | Qua. | DF | MDL      | LOQ / CRQL | Units   | Date Ana.      | BatchID  |
|---------------------------|------------------------|-------------------|------|----|----------|------------|---------|----------------|----------|
| 108-20-3                  | Diisopropyl ether      | 22.5              |      | 1  | 0.55     | 5.00       | ug/Kg   | 11/06/25 10:07 | VY110625 |
| 123-91-1                  | 1,4-Dioxane            | 420               |      | 1  | 48.1     | 100        | ug/Kg   | 11/06/25 10:07 | VY110625 |
| <b>SURROGATES</b>         |                        |                   |      |    |          |            |         |                |          |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 51.9              |      |    | 63 - 155 | 104%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 50.4              |      |    | 70 - 134 | 101%       | SPK: 50 |                |          |
| 2037-26-5                 | Toluene-d8             | 51.5              |      |    | 74 - 123 | 103%       | SPK: 50 |                |          |
| 460-00-4                  | 4-Bromofluorobenzene   | 51.7              |      |    | 17 - 146 | 103%       | SPK: 50 |                |          |
| 1868-53-7                 | Dibromofluoromethane   | 50.4              |      |    | 70 - 134 | 101%       | SPK: 50 |                |          |
| <b>INTERNAL STANDARDS</b> |                        |                   |      |    |          |            |         |                |          |
|                           |                        | <b>Area Count</b> |      |    |          |            |         |                |          |
| 363-72-4                  | Pentafluorobenzene     | 531000            |      |    |          |            |         |                |          |
| 540-36-3                  | 1,4-Difluorobenzene    | 804000            |      |    |          |            |         |                |          |
| 3114-55-4                 | Chlorobenzene-d5       | 709000            |      |    |          |            |         |                |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 362000            |      |    |          |            |         |                |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023695.D  
 Acq On : 06 Nov 2025 10:07  
 Operator : SY/MD  
 Sample : VY1106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:13:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 530734              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 804208              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 708727              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 361529              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.061          | 65   | 234984              | 51.905  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.800% |         |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 253337              | 50.408  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 100.820% |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 964970              | 51.544  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 103.080% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 312769              | 51.661  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.320% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 78458               | 22.520  | ug/l   | 98       |
| 3) Chloromethane             | 2.074          | 50   | 109141              | 22.387  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 135422              | 21.347  | ug/l   | 100      |
| 5) Bromomethane              | 2.592          | 94   | 112682              | 21.116  | ug/l   | 97       |
| 6) Chloroethane              | 2.733          | 64   | 93765               | 21.385  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.056          | 101  | 185249              | 20.734  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.458          | 74   | 51931               | 21.675  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 102854              | 20.894  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.007          | 142  | 113826              | 19.582  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.860          | 59   | 40479               | 138.666 | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 97751               | 20.614  | ug/l   | 97       |
| 13) Acrolein                 | 3.653          | 56   | 42259               | 112.629 | ug/l   | 97       |
| 14) Allyl chloride           | 4.391          | 41   | 127122              | 22.025  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.061          | 53   | 103876              | 113.448 | ug/l   | 98       |
| 16) Acetone                  | 3.867          | 43   | 134251              | 119.299 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.110          | 76   | 312454              | 21.469  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.385          | 43   | 52814               | 21.278  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 235388              | 21.408  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.616          | 84   | 126676              | 23.318  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 110973              | 20.756  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.019          | 45   | 289564              | 22.515  | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.964          | 43   | 782248              | 113.978 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 182165              | 21.262  | ug/l   | 99       |
| 25) 2-Butanone               | 6.896          | 43   | 154418              | 118.684 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.884          | 77   | 169719              | 21.535  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.890          | 96   | 129935              | 21.279  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.244          | 49   | 73608               | 22.438  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.268          | 42   | 78433               | 113.192 | ug/l   | 97       |
| 30) Chloroform               | 7.421          | 83   | 203557              | 21.294  | ug/l   | 98       |
| 31) Cyclohexane              | 7.707          | 56   | 157653              | 21.129  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 179510              | 21.010  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 138622              | 20.641  | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.988          | 43   | 55918               | 21.509  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 159996              | 20.220  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.110          | 83   | 172371              | 20.088  | ug/l   | 96       |
| 40) Benzene                  | 8.079          | 78   | 449187              | 21.220  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023695.D  
 Acq On : 06 Nov 2025 10:07  
 Operator : SY/MD  
 Sample : VY1106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:13:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 25249    | 17.792  | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 114582   | 21.395  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 105103   | 21.516  | ug/l   | 97       |
| 44) Trichloroethene           | 8.866  | 130  | 125077   | 20.572  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 99344    | 21.264  | ug/l   | 100      |
| 46) Dibromomethane            | 9.231  | 93   | 60952    | 21.056  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.427  | 83   | 155359   | 21.287  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.225  | 41   | 47946    | 20.775  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 12557    | 423.874 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 285374   | 109.854 | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 284543   | 21.054  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 131571   | 21.306  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 155558   | 21.025  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 82465    | 21.317  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 87872    | 20.616  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 131721   | 21.467  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 199771   | 102.140 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 217163   | 114.583 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.908 | 129  | 109270   | 20.558  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 77170    | 21.256  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 147935   | 20.054  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 314254   | 20.368  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 111820   | 20.496  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 512468   | 20.522  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.627 | 106  | 411043   | 41.199  | ug/l   | 98       |
| 69) o-Xylene                  | 11.957 | 106  | 185795   | 20.146  | ug/l   | 96       |
| 70) Styrene                   | 11.969 | 104  | 313455   | 20.599  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 66762    | 20.952  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 492540   | 20.370  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.066 | 43   | 84670    | 20.683  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 83292    | 21.568  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 60991m   | 20.845  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 128267   | 20.451  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.591 | 91   | 593032   | 20.851  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 341687   | 20.703  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 411072   | 20.924  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 27099    | 20.931  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 354923   | 20.852  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.993 | 119  | 355748   | 19.882  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 409701   | 21.055  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 526700   | 20.409  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 446213   | 20.424  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 253116   | 20.504  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 247228   | 20.388  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.615 | 91   | 387010   | 20.371  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.877 | 117  | 96893    | 20.638  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 218487   | 20.537  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75   | 12395    | 20.846  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 124045   | 20.385  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 79566    | 19.956  | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 181092   | 20.493  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 105148   | 20.682  | ug/l   | 100      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
Data File : VY023695.D  
Acq On : 06 Nov 2025 10:07  
Operator : SY/MD  
Sample : VY1106SBSD01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBSD01

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 07 04:13:33 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration

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

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



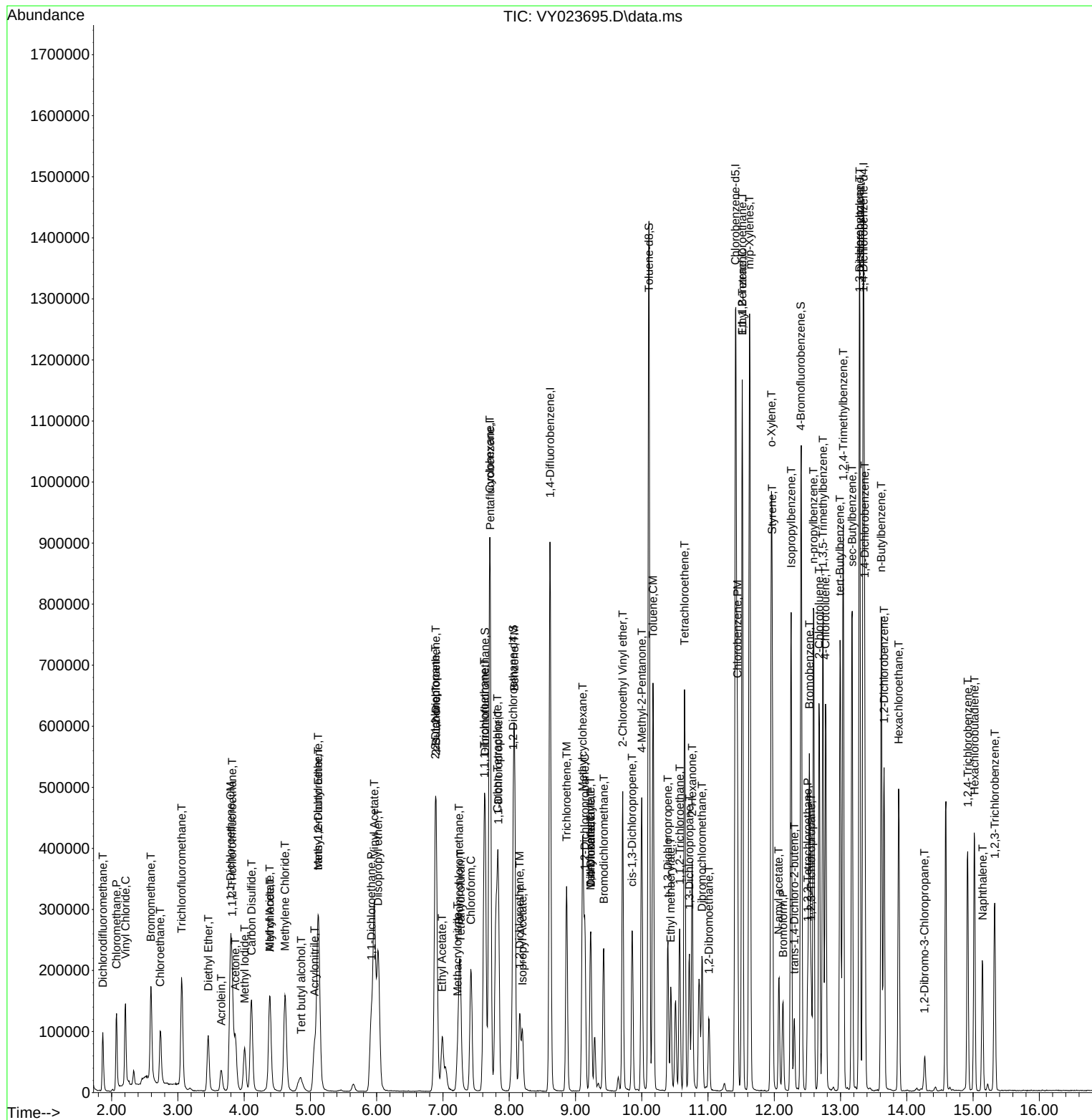
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110625\  
 Data File : VY023695.D  
 Acq On : 06 Nov 2025 10:07  
 Operator : SY/MD  
 Sample : VY1106SBSD01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

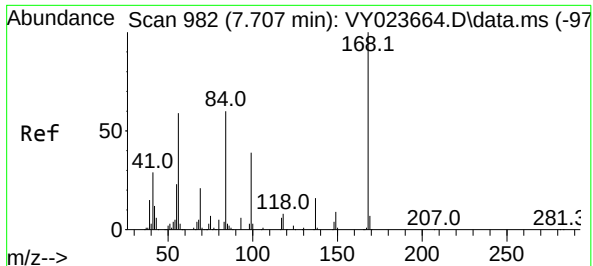
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBSD01

### Manual Integrations APPROVED

Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

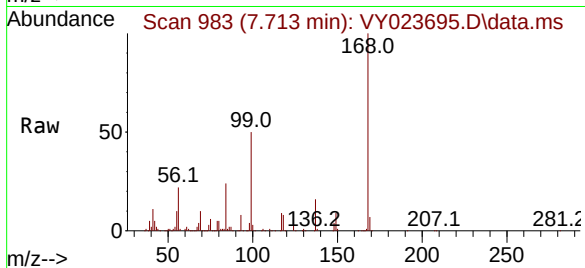
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

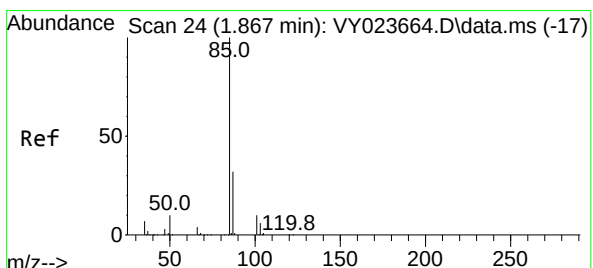
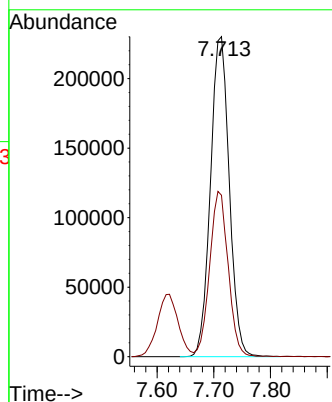
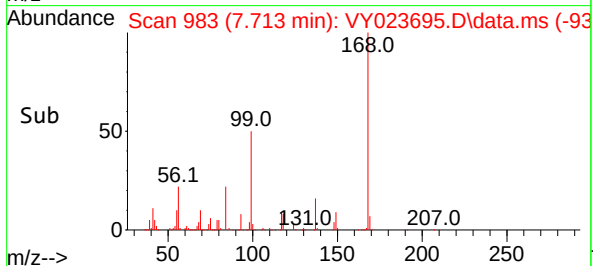
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:168 Resp: 530734  
Ion Ratio Lower Upper  
168 100  
99 50.4 41.0 61.4

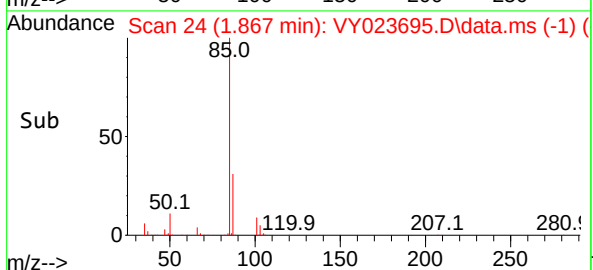
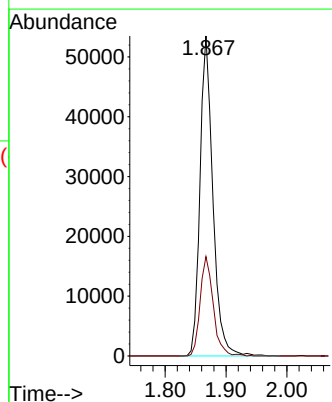
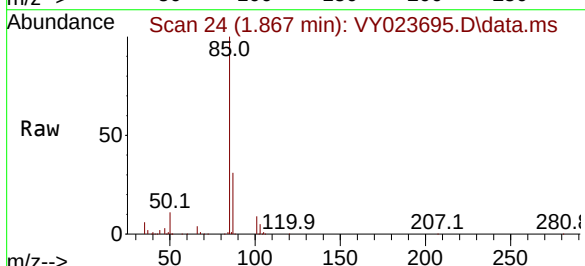
Manual Integrations  
APPROVED

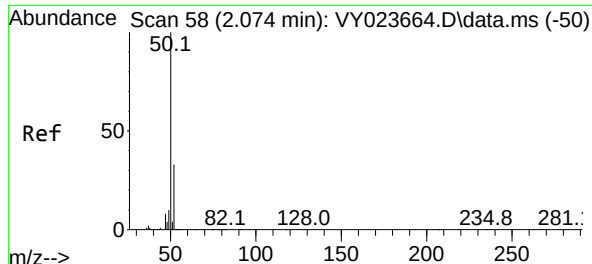
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#2  
Dichlorodifluoromethane  
Concen: 22.520 ug/l  
RT: 1.867 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

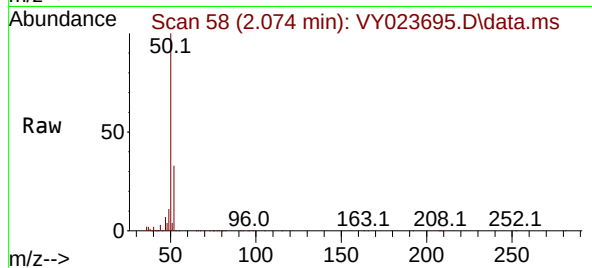
Tgt Ion: 85 Resp: 78458  
Ion Ratio Lower Upper  
85 100  
87 31.1 16.2 48.6





#3  
Chloromethane  
Concen: 22.387 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

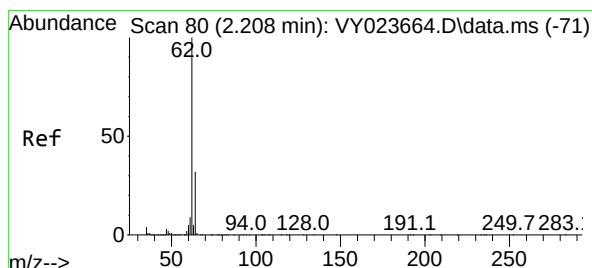
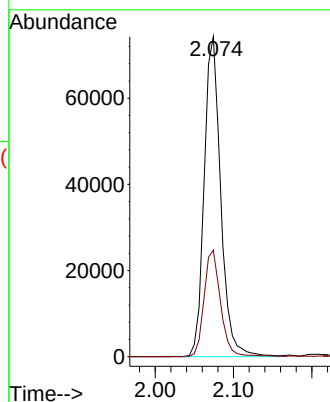
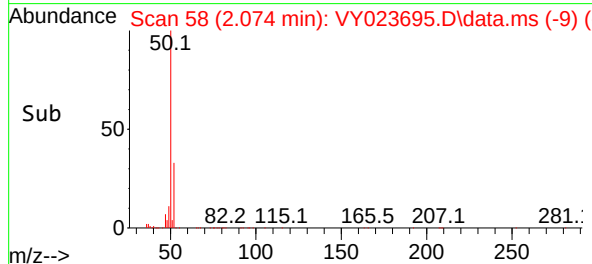
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



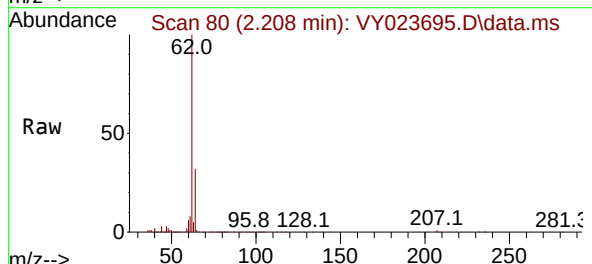
Tgt Ion: 50 Resp: 10914  
Ion Ratio Lower Upper  
50 100  
52 33.2 26.5 39.7

Manual Integrations  
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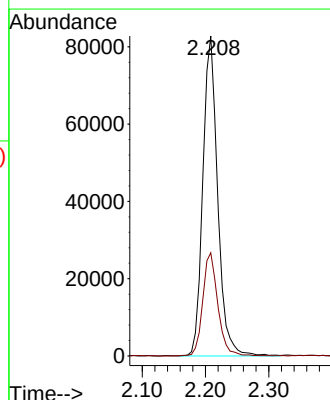
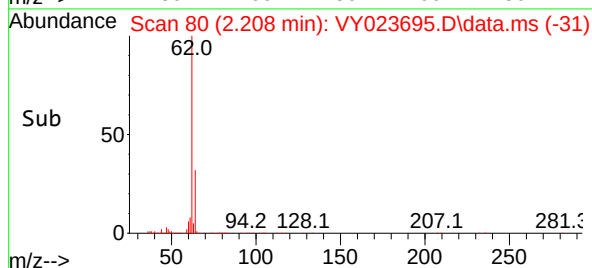
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

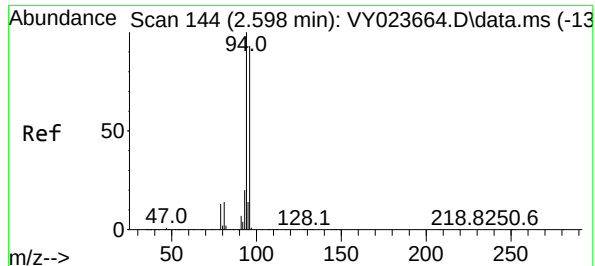


#4  
Vinyl Chloride  
Concen: 21.347 ug/l  
RT: 2.208 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



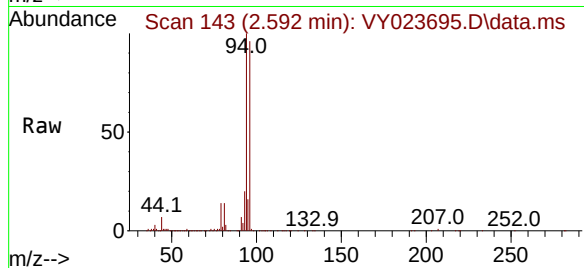
Tgt Ion: 62 Resp: 135422  
Ion Ratio Lower Upper  
62 100  
64 32.2 25.7 38.5





#5  
Bromomethane  
Concen: 21.116 ug/l  
RT: 2.592 min Scan# 144  
Delta R.T. -0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

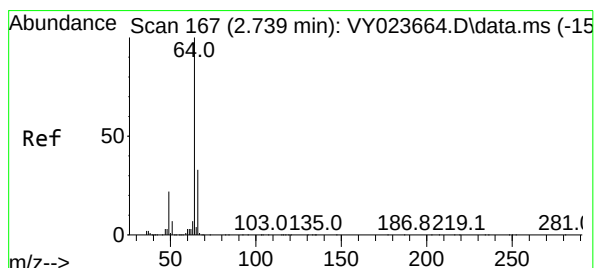
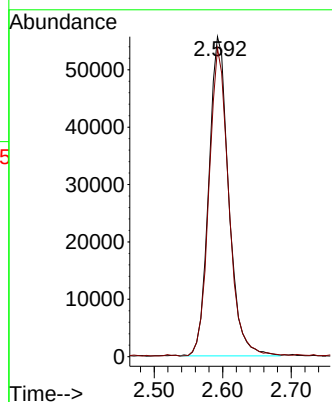
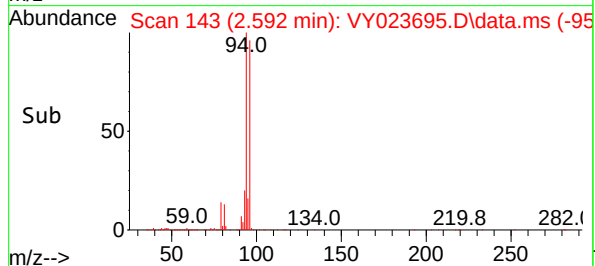
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



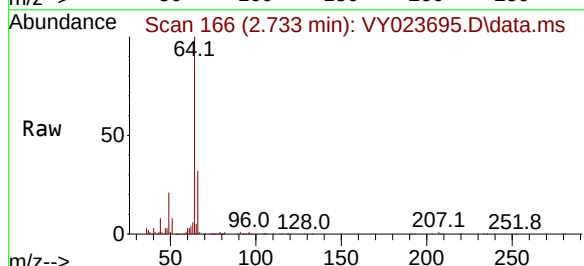
Tgt Ion: 94 Resp: 112682  
Ion Ratio Lower Upper  
94 100  
96 96.2 74.4 111.6

Manual Integrations  
APPROVED

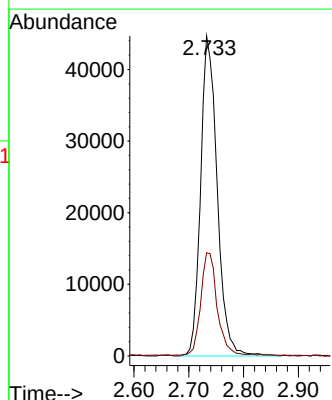
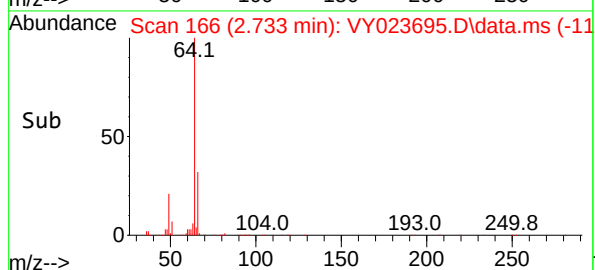
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

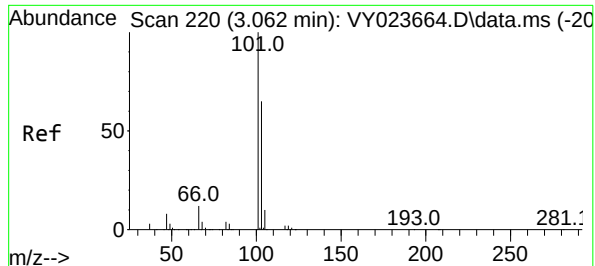


#6  
Chloroethane  
Concen: 21.385 ug/l  
RT: 2.733 min Scan# 166  
Delta R.T. -0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



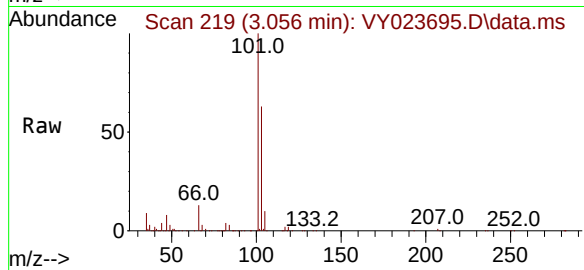
Tgt Ion: 64 Resp: 93765  
Ion Ratio Lower Upper  
64 100  
66 32.0 26.2 39.4





#7  
 Trichlorofluoromethane  
 Concen: 20.734 ug/l  
 RT: 3.056 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VY023695.D  
 Acq: 06 Nov 2025 10:07

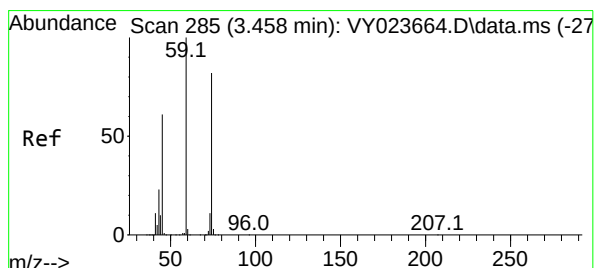
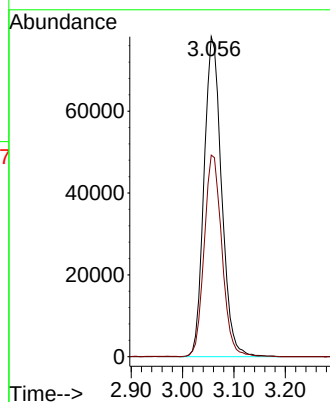
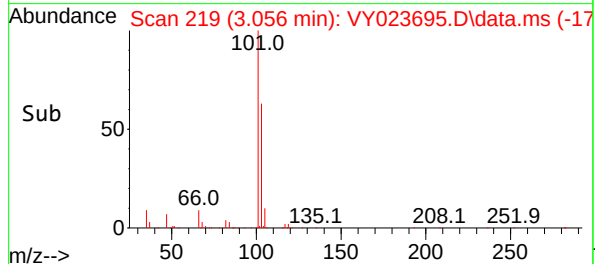
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01



Tgt Ion:101 Resp: 185249  
 Ion Ratio Lower Upper  
 101 100  
 103 63.0 52.1 78.1

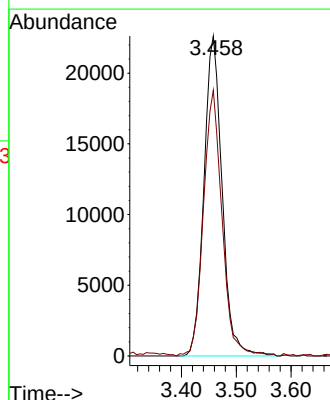
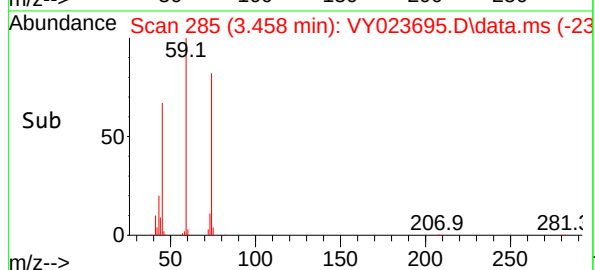
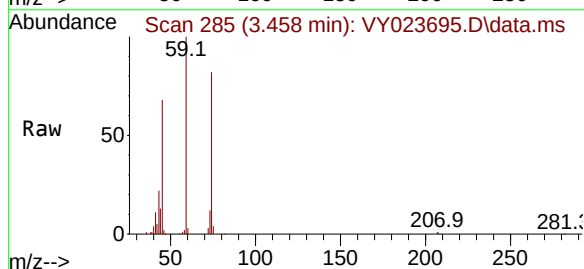
Manual Integrations  
 APPROVED

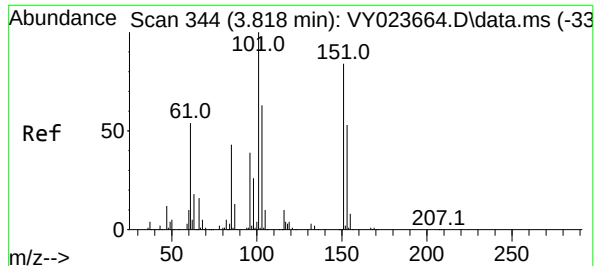
Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025



#8  
 Diethyl Ether  
 Concen: 21.675 ug/l  
 RT: 3.458 min Scan# 285  
 Delta R.T. 0.000 min  
 Lab File: VY023695.D  
 Acq: 06 Nov 2025 10:07

Tgt Ion: 74 Resp: 51931  
 Ion Ratio Lower Upper  
 74 100  
 45 85.3 40.6 121.7





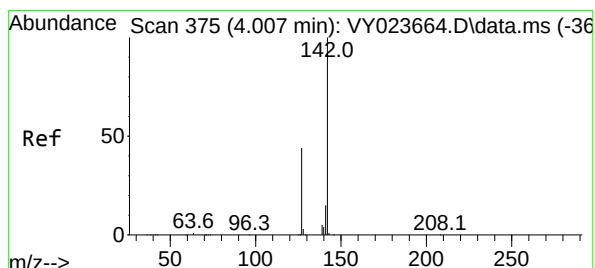
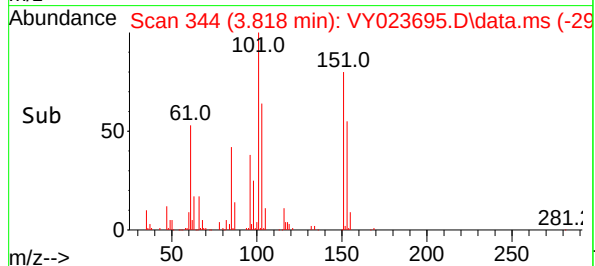
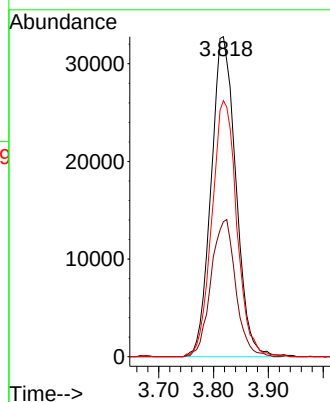
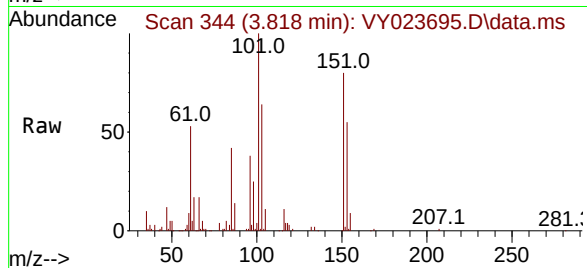
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 20.894 ug/l  
RT: 3.818 min Scan# 344  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Tgt Ion:101 Resp: 102854  
Ion Ratio Lower Upper  
101 100  
85 42.6 34.4 51.6  
151 80.5 65.6 98.4

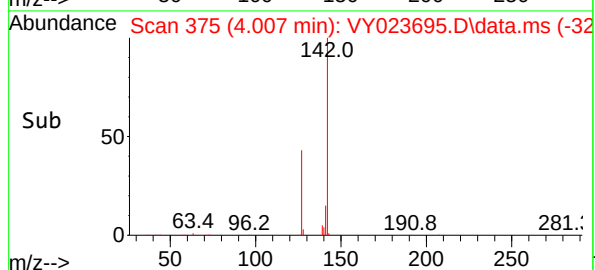
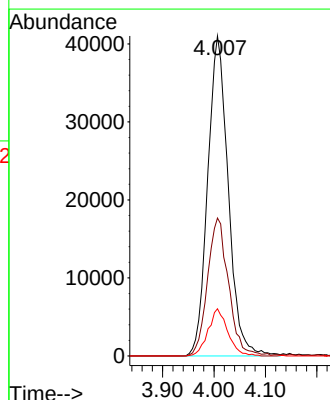
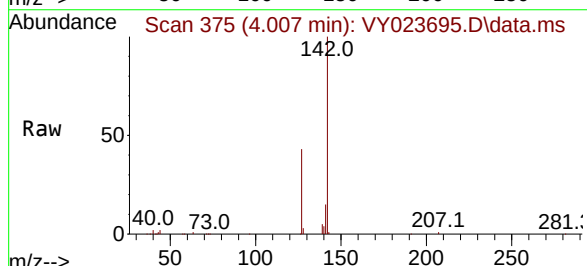
Manual Integrations  
APPROVED

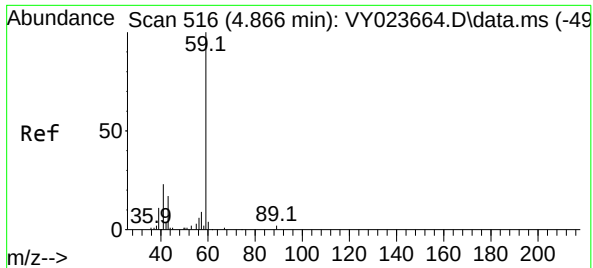
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#10  
Methyl Iodide  
Concen: 19.582 ug/l  
RT: 4.007 min Scan# 375  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion:142 Resp: 113826  
Ion Ratio Lower Upper  
142 100  
127 44.1 34.6 51.8  
141 14.1 11.6 17.4





#11

Tert butyl alcohol

Concen: 138.666 ug/l

RT: 4.860 min Scan# 516

Delta R.T. -0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 59 Resp: 40479

Ion Ratio Lower Upper

59 100

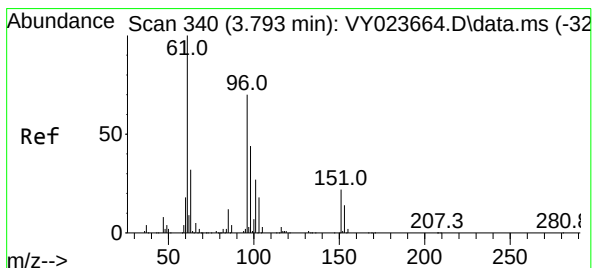
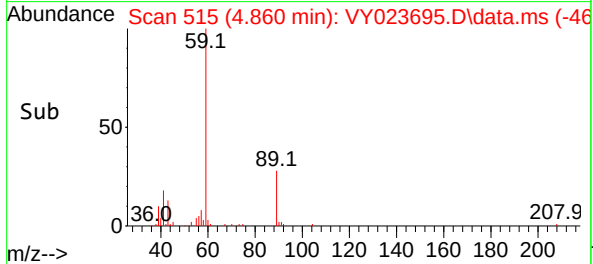
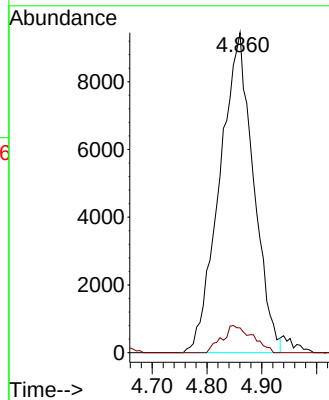
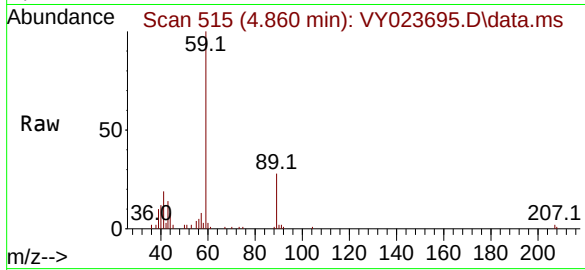
57 7.6 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#12

1,1-Dichloroethene

Concen: 20.614 ug/l

RT: 3.793 min Scan# 340

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

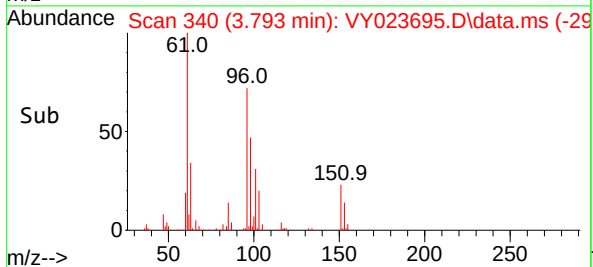
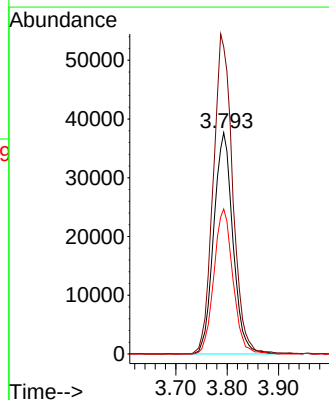
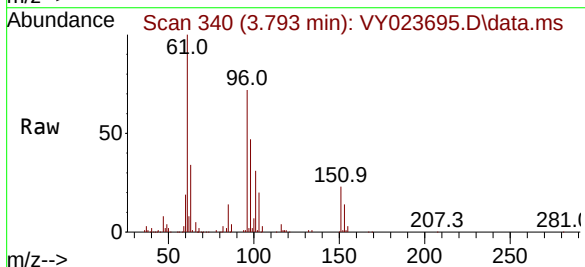
Tgt Ion: 96 Resp: 97751

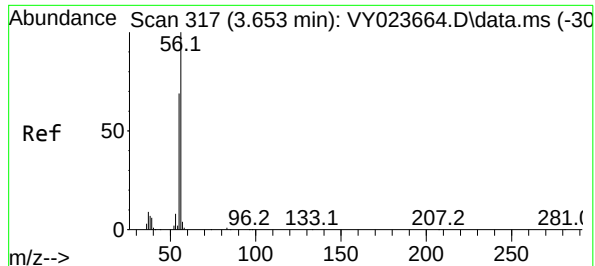
Ion Ratio Lower Upper

96 100

61 138.7 114.0 171.0

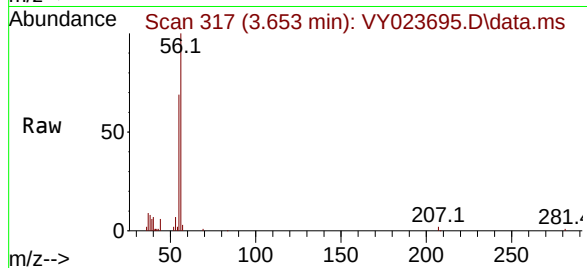
98 65.5 50.2 75.2





#13  
Acrolein  
Concen: 112.629 ug/l  
RT: 3.653 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

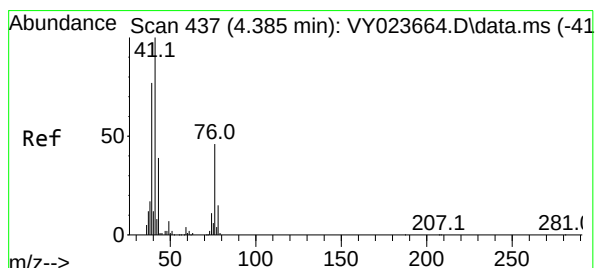
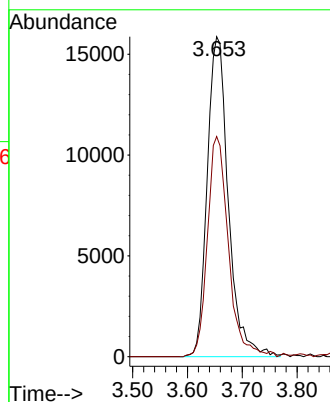
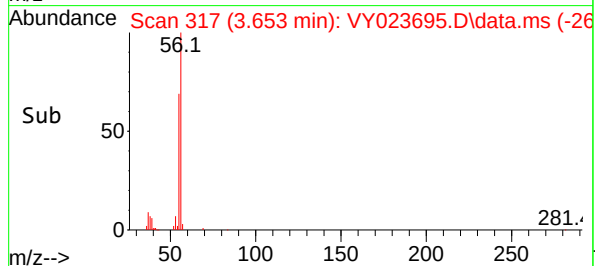
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 56 Resp: 42259  
Ion Ratio Lower Upper  
56 100  
55 68.5 56.6 84.8

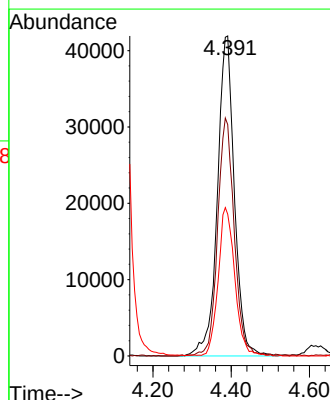
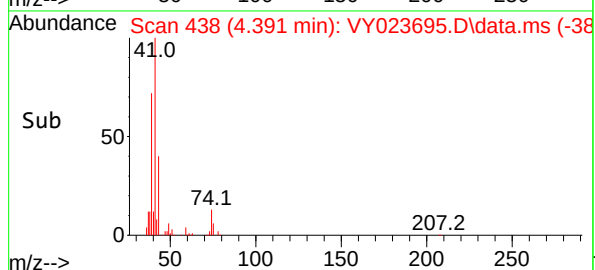
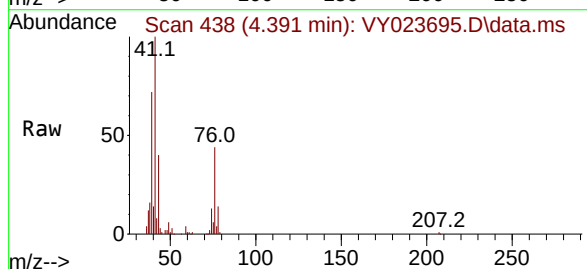
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

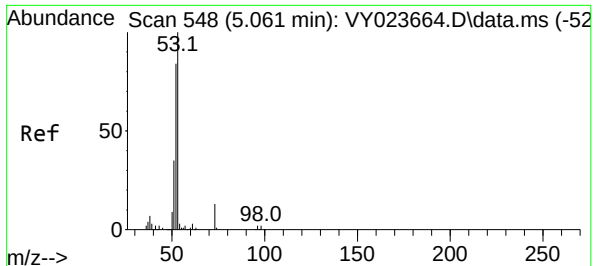


#14  
Allyl chloride  
Concen: 22.025 ug/l  
RT: 4.391 min Scan# 438  
Delta R.T. 0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion: 41 Resp: 127122  
Ion Ratio Lower Upper  
41 100  
39 72.5 60.4 90.6  
76 45.2 38.0 57.0







#15

Acrylonitrile

Concen: 113.448 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY023695.D

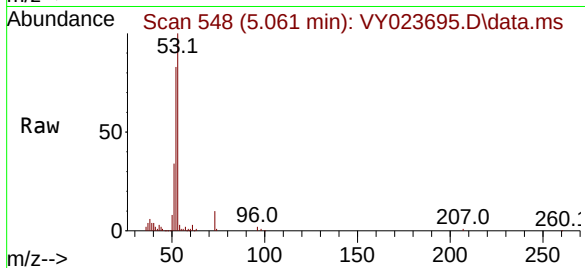
Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 53 Resp: 103870

Ion Ratio Lower Upper

53 100

52 79.8 64.9 97.3

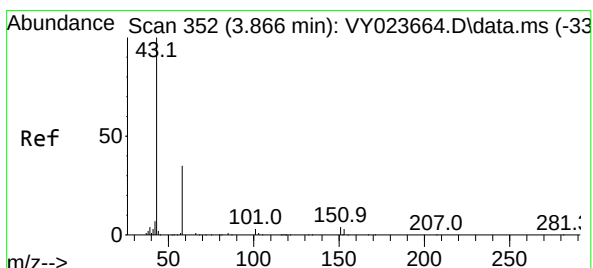
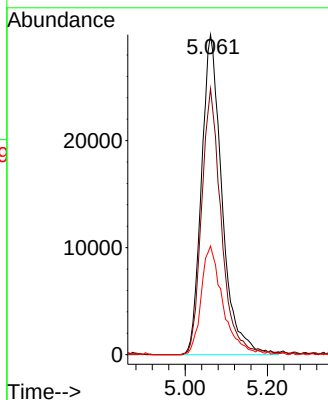
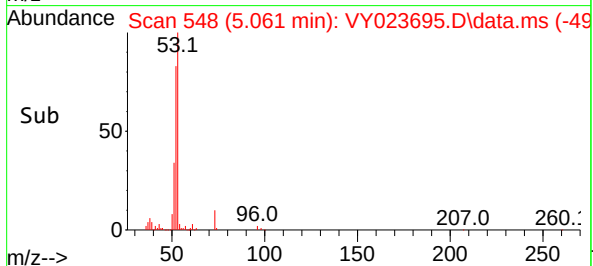
51 35.3 29.4 44.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#16

Acetone

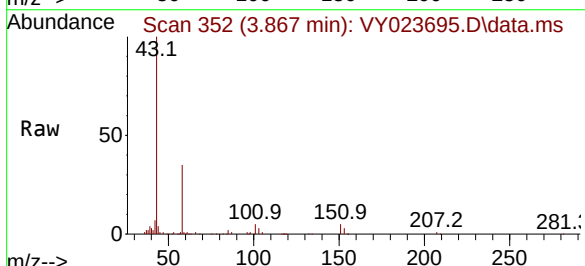
Concen: 119.299 ug/l

RT: 3.867 min Scan# 352

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

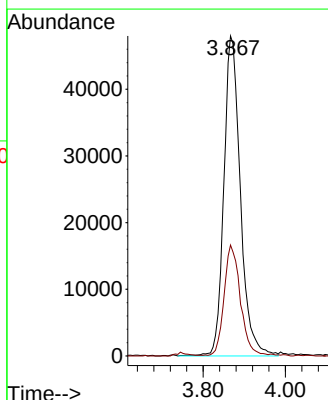
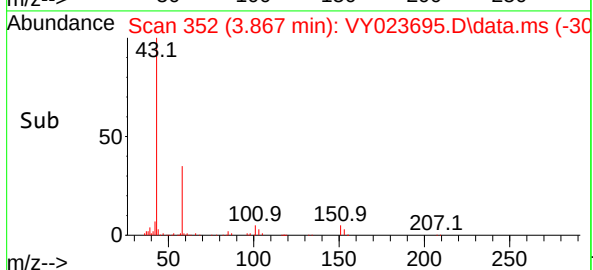


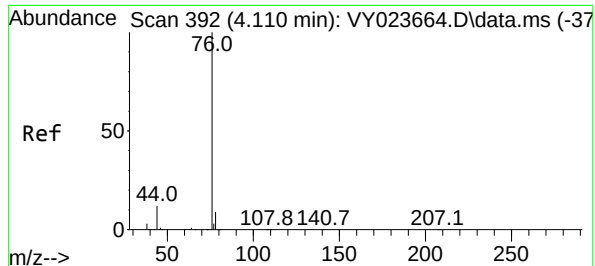
Tgt Ion: 43 Resp: 134251

Ion Ratio Lower Upper

43 100

58 34.3 28.2 42.4





#17

Carbon Disulfide

Concen: 21.469 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 76 Resp: 312454

Ion Ratio Lower Upper

76 100

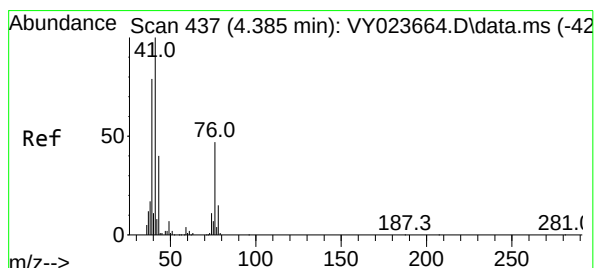
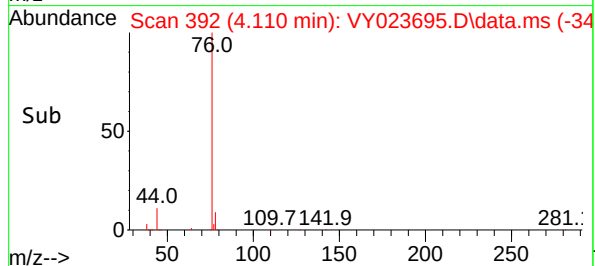
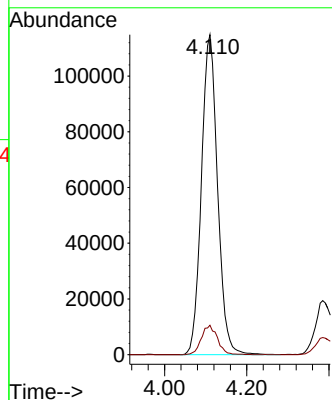
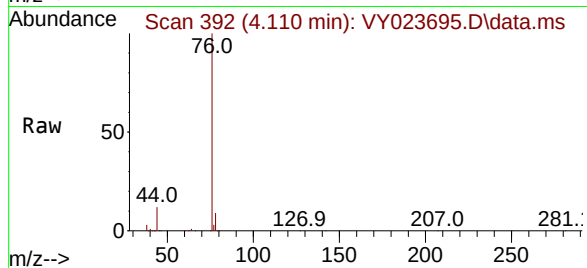
78 9.2 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#18

Methyl Acetate

Concen: 21.278 ug/l

RT: 4.385 min Scan# 437

Delta R.T. 0.000 min

Lab File: VY023695.D

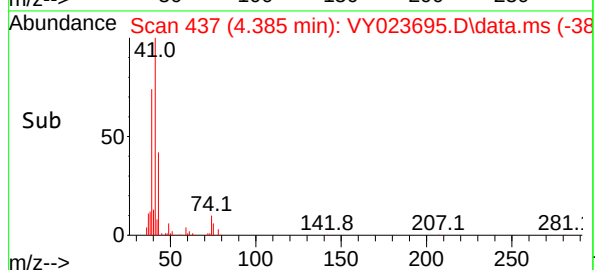
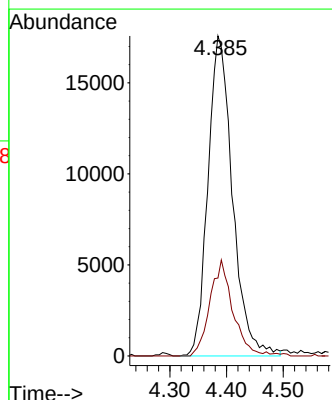
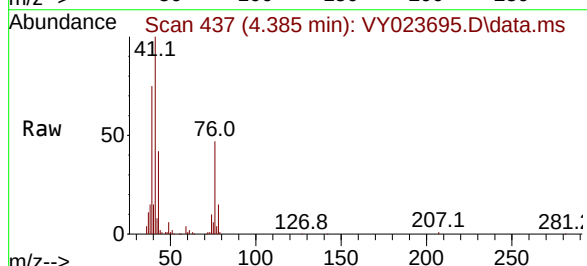
Acq: 06 Nov 2025 10:07

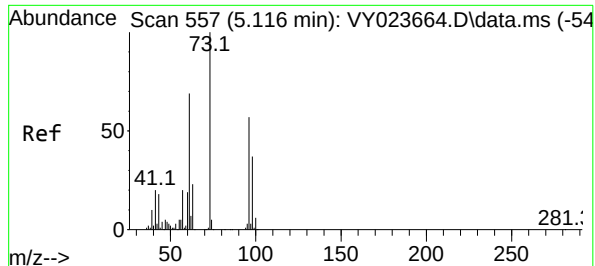
Tgt Ion: 43 Resp: 52814

Ion Ratio Lower Upper

43 100

74 27.7 22.5 33.7





#19

Methyl tert-butyl Ether

Concen: 21.408 ug/l

RT: 5.116 min Scan# 511

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 73 Resp: 23538

Ion Ratio Lower Upper

73 100

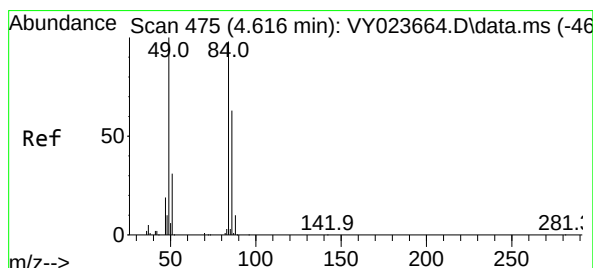
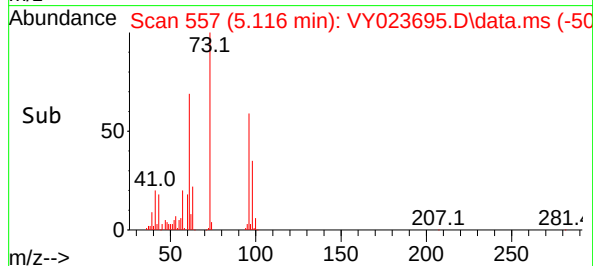
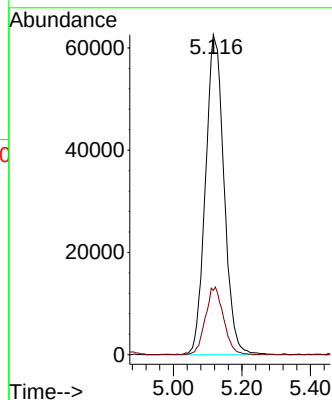
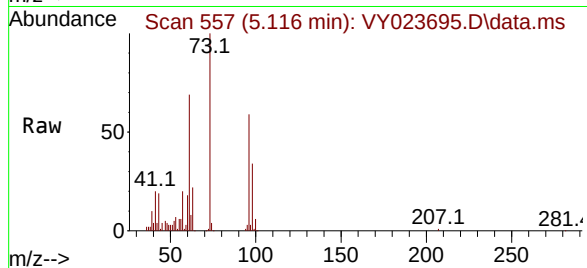
57 20.1 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#20

Methylene Chloride

Concen: 23.318 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Tgt Ion: 84 Resp: 126676

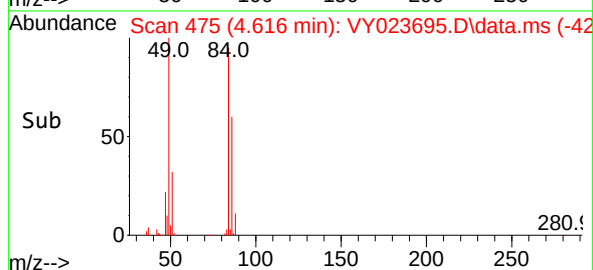
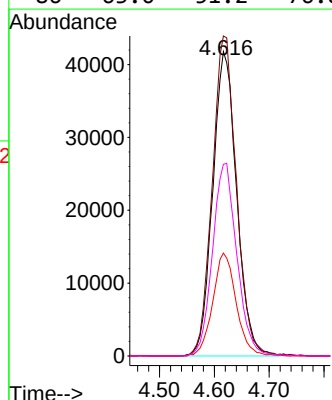
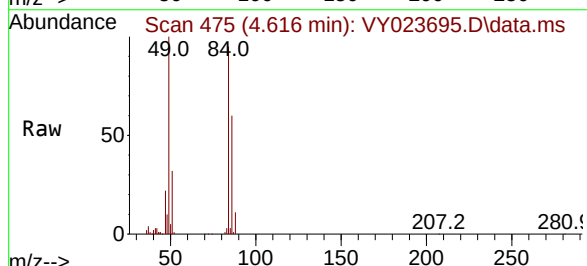
Ion Ratio Lower Upper

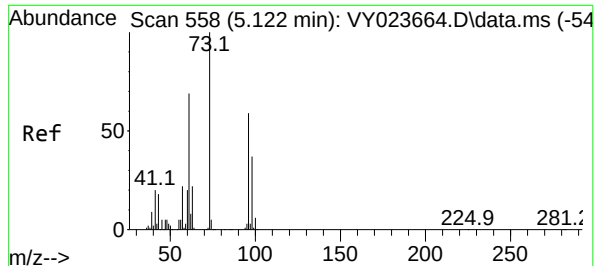
84 100

49 105.1 81.5 122.3

51 33.7 25.5 38.3

86 63.0 51.2 76.8





#21

trans-1,2-Dichloroethene

Concen: 20.756 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 96 Resp: 11097

Ion Ratio Lower Upper

96 100

61 117.2 93.3 139.9

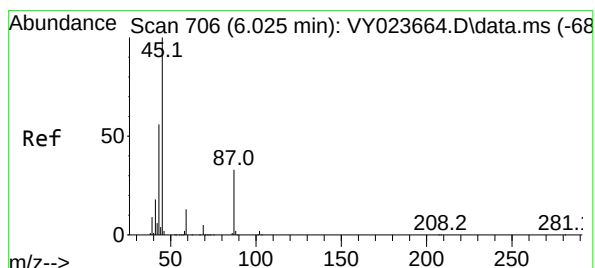
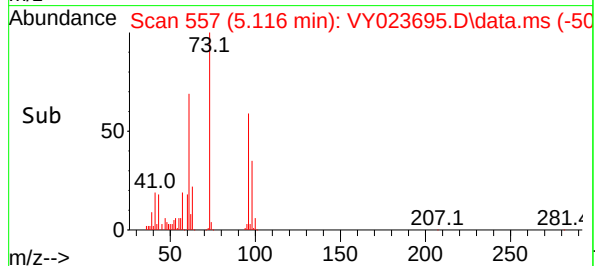
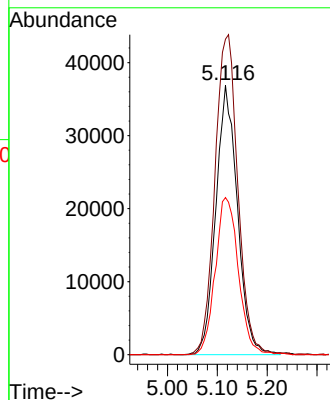
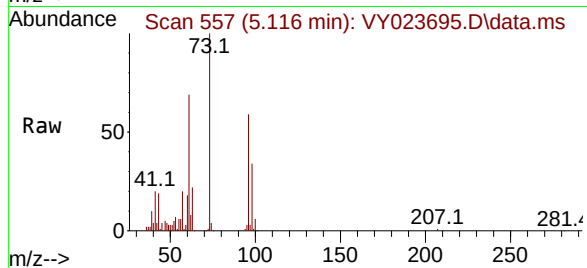
98 58.3 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#22

Diisopropyl ether

Concen: 22.515 ug/l

RT: 6.019 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Tgt Ion: 45 Resp: 289564

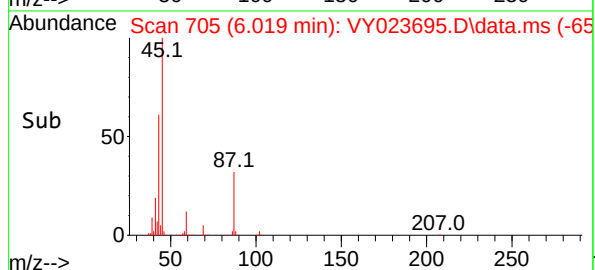
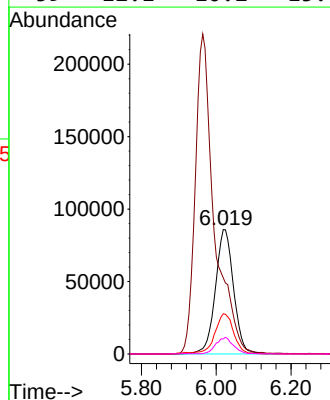
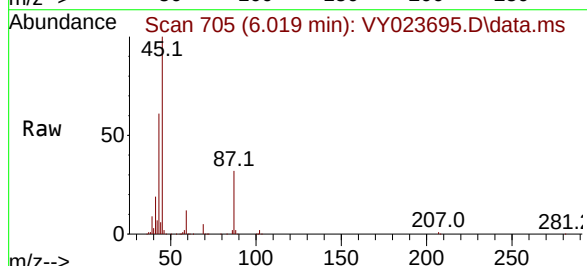
Ion Ratio Lower Upper

45 100

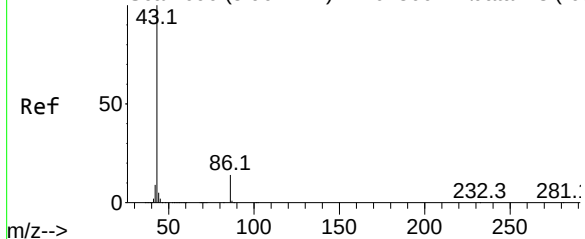
43 60.6 44.7 67.1

87 32.4 27.2 40.8

59 12.1 10.2 15.4



Abundance Scan 696 (5.964 min): VY023664.D\data.ms (-68



#23

Vinyl Acetate

Concen: 113.978 ug/l

RT: 5.964 min Scan# 696

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

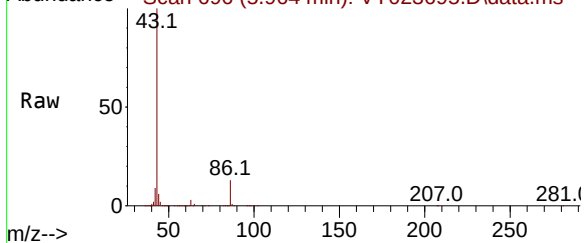
Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Abundance Scan 696 (5.964 min): VY023695.D\data.ms



Tgt Ion: 43 Resp: 782248

Ion Ratio Lower Upper

43 100

86 13.1 10.9 16.3

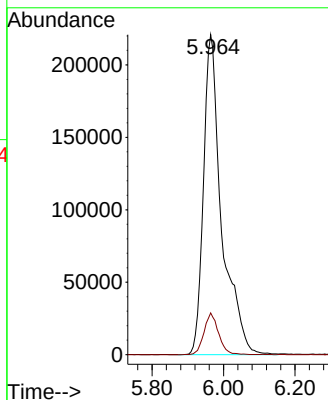
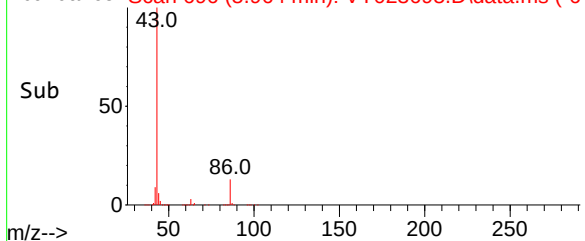
Manual Integrations

APPROVED

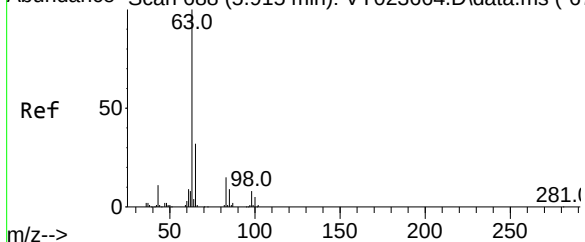
Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025

Abundance Scan 696 (5.964 min): VY023695.D\data.ms (-64



Abundance Scan 688 (5.915 min): VY023664.D\data.ms (-67



#24

1,1-Dichloroethane

Concen: 21.262 ug/l

RT: 5.921 min Scan# 689

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Tgt Ion: 63 Resp: 182165

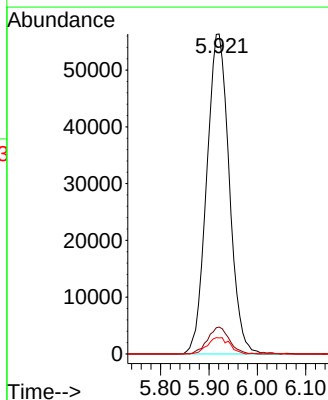
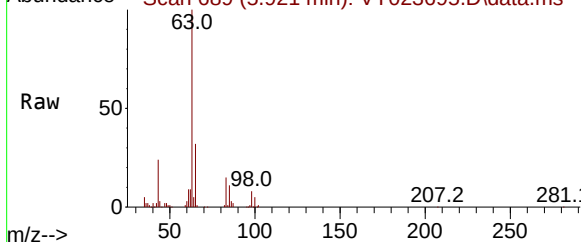
Ion Ratio Lower Upper

63 100

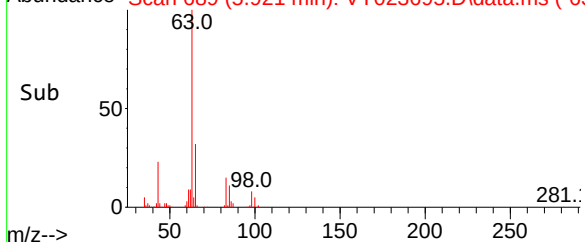
98 8.4 4.0 11.9

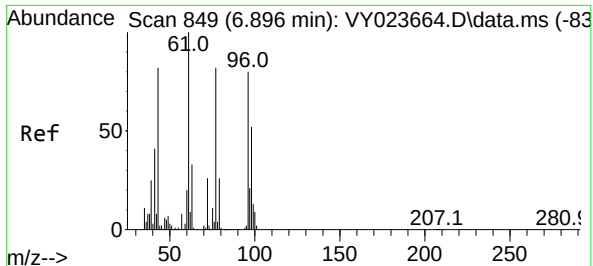
100 5.0 2.6 7.8

Abundance Scan 689 (5.921 min): VY023695.D\data.ms



Abundance Scan 689 (5.921 min): VY023695.D\data.ms (-63





#25

2-Butanone

Concen: 118.684 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY023695.D

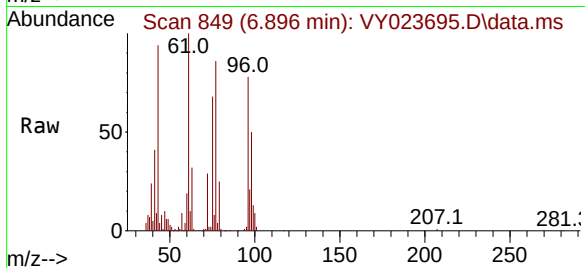
Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 43 Resp: 154418

Ion Ratio Lower Upper

43 100

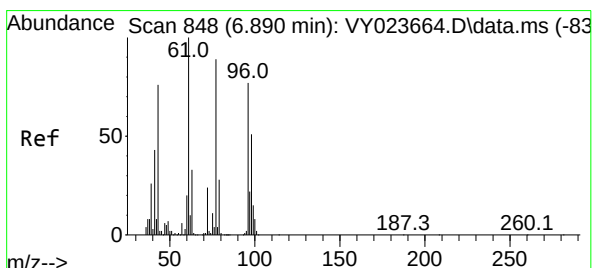
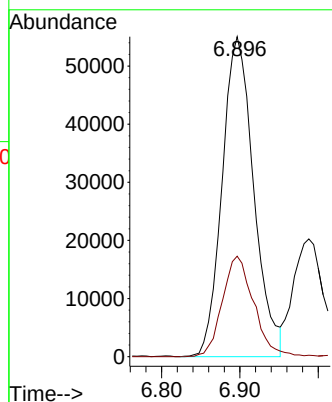
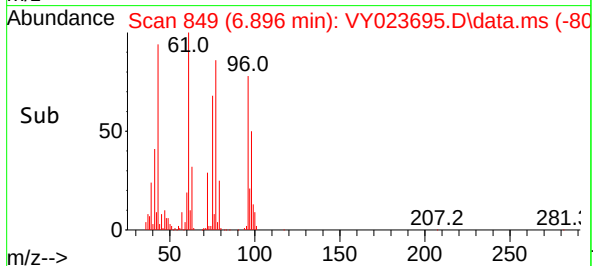
72 31.4 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#26

2,2-Dichloropropane

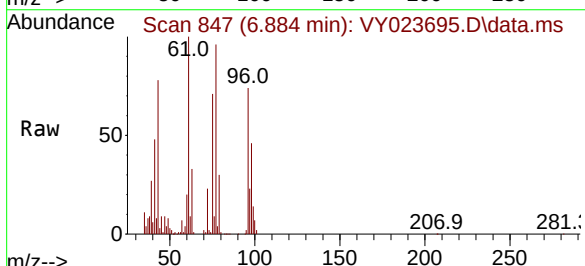
Concen: 21.535 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

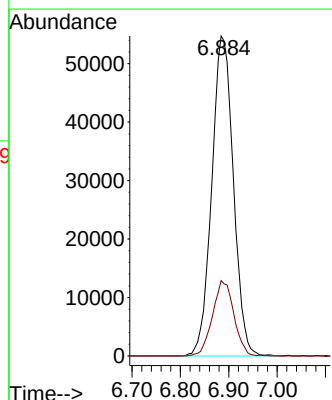
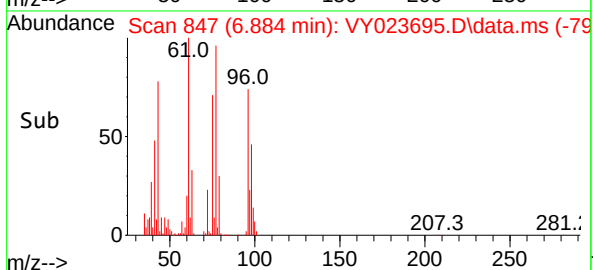


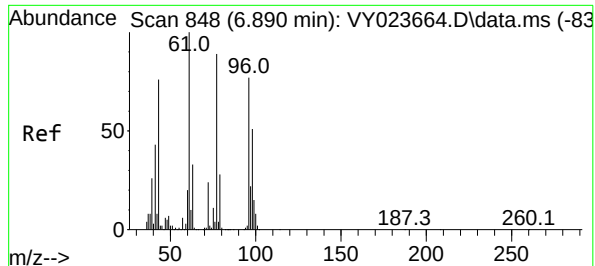
Tgt Ion: 77 Resp: 169719

Ion Ratio Lower Upper

77 100

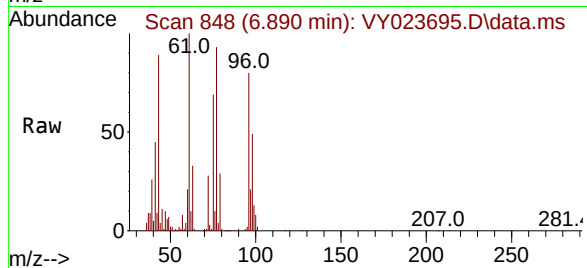
97 23.3 12.0 36.1





#27  
 cis-1,2-Dichloroethene  
 Concen: 21.279 ug/l  
 RT: 6.890 min Scan# 848  
 Delta R.T. 0.000 min  
 Lab File: VY023695.D  
 Acq: 06 Nov 2025 10:07

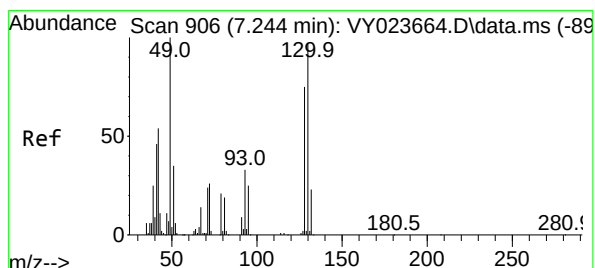
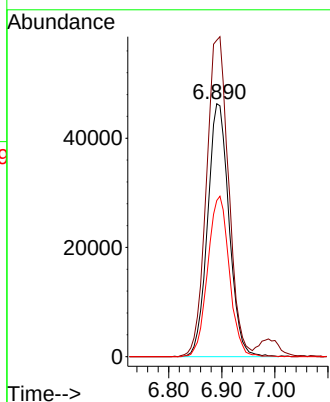
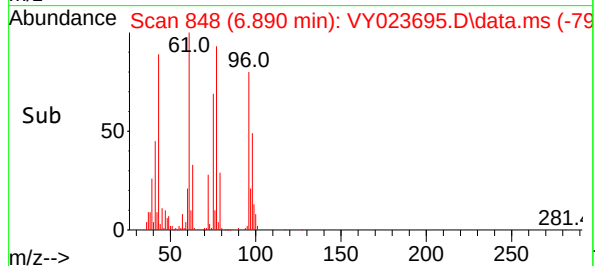
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1106SBS01



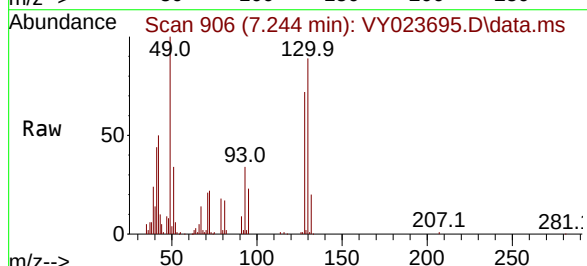
Tgt Ion: 96 Resp: 129938  
 Ion Ratio Lower Upper  
 96 100  
 61 130.9 0.0 255.0  
 98 64.0 0.0 129.8

Manual Integrations  
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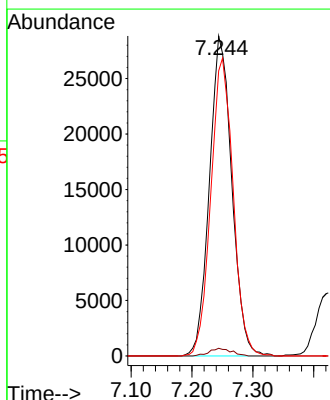
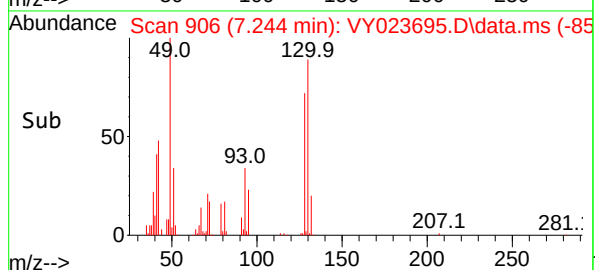
Reviewed By :Amit Patel 11/07/2025  
 Supervised By :Mahesh Dadoda 11/07/2025

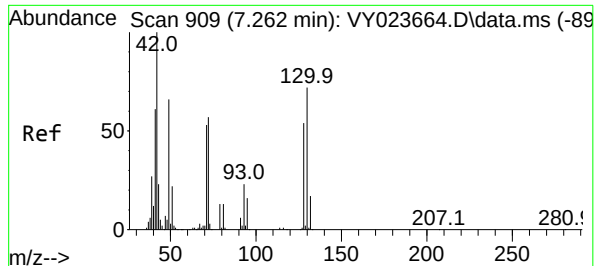


#28  
 Bromochloromethane  
 Concen: 22.438 ug/l  
 RT: 7.244 min Scan# 906  
 Delta R.T. 0.000 min  
 Lab File: VY023695.D  
 Acq: 06 Nov 2025 10:07



Tgt Ion: 49 Resp: 73608  
 Ion Ratio Lower Upper  
 49 100  
 129 2.4 0.0 5.0  
 130 92.5 80.1 120.1





#29

Tetrahydrofuran

Concen: 113.192 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 42 Resp: 7843

Ion Ratio Lower Upper

42 100

72 52.6 43.4 65.2

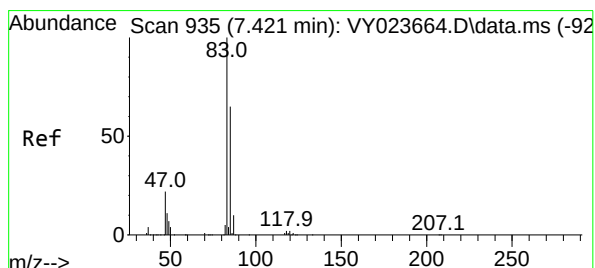
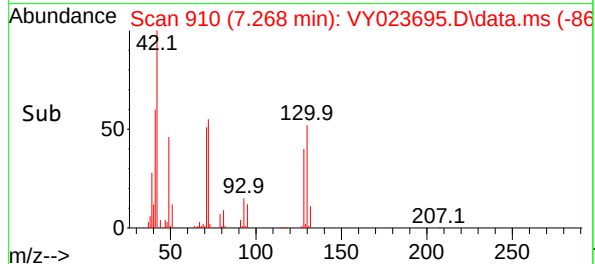
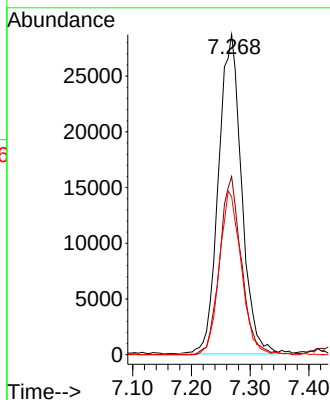
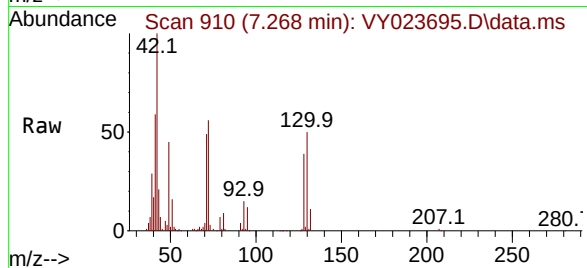
71 48.7 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#30

Chloroform

Concen: 21.294 ug/l

RT: 7.421 min Scan# 935

Delta R.T. 0.000 min

Lab File: VY023695.D

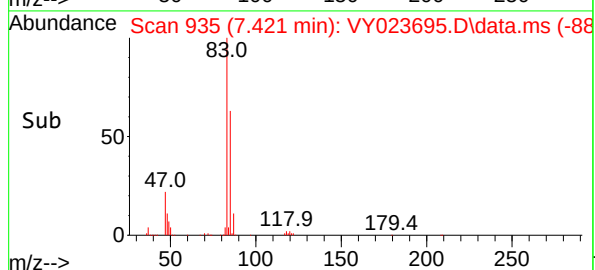
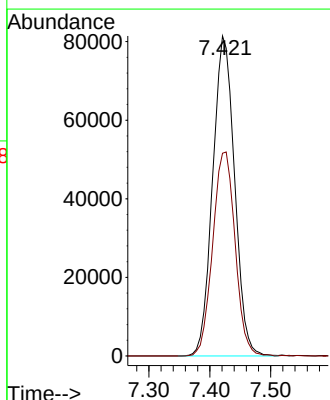
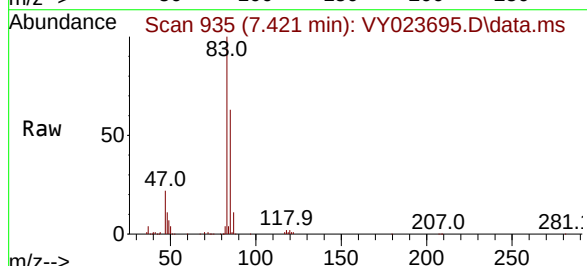
Acq: 06 Nov 2025 10:07

Tgt Ion: 83 Resp: 203557

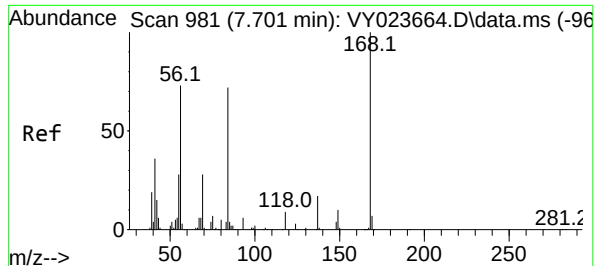
Ion Ratio Lower Upper

83 100

85 63.4 52.1 78.1







#31

Cyclohexane

Concen: 21.129 ug/l

RT: 7.707 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 56 Resp: 15765

Ion Ratio Lower Upper

56 100

69 40.7 30.5 45.7

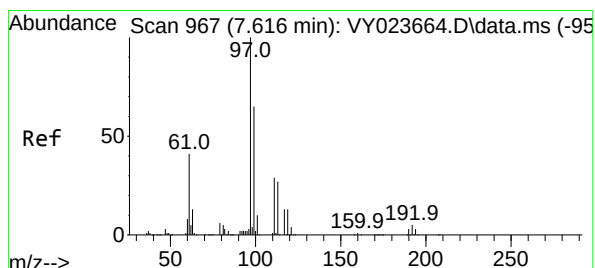
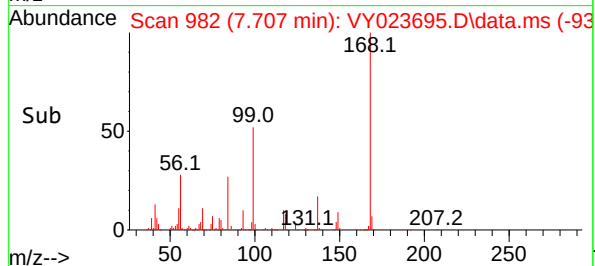
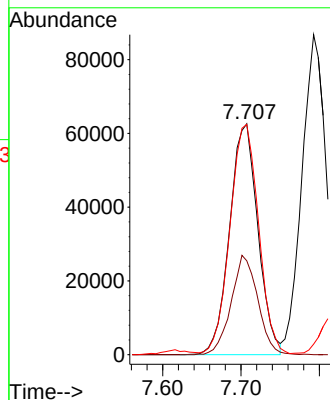
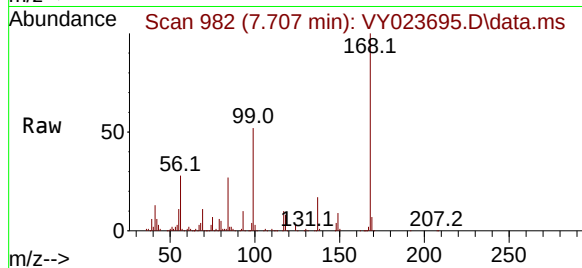
84 98.4 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#32

1,1,1-Trichloroethane

Concen: 21.010 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

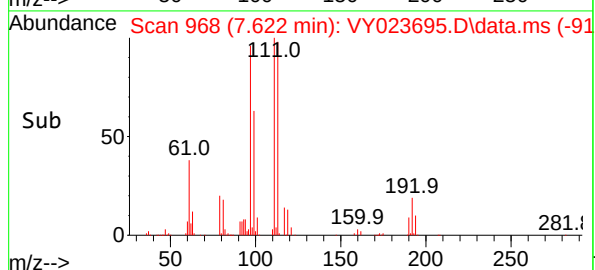
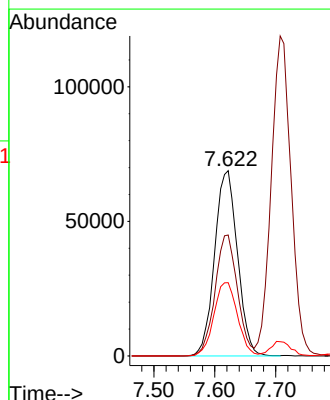
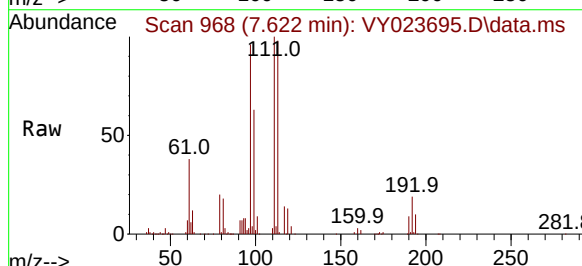
Tgt Ion: 97 Resp: 179510

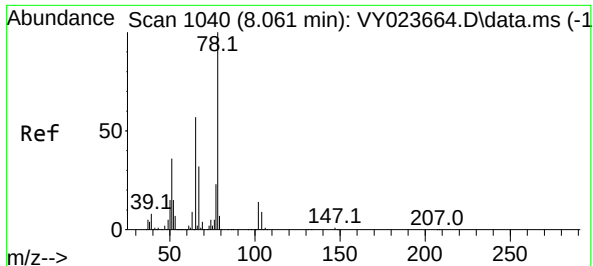
Ion Ratio Lower Upper

97 100

99 64.1 51.5 77.3

61 40.9 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 51.905 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 65 Resp: 234984

Ion Ratio Lower Upper

65 100

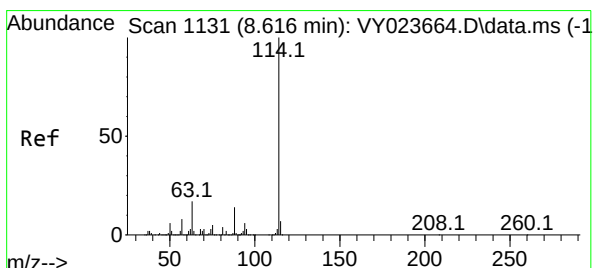
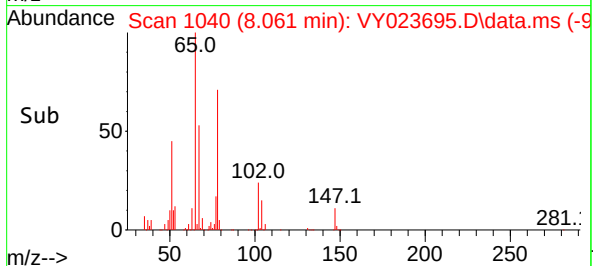
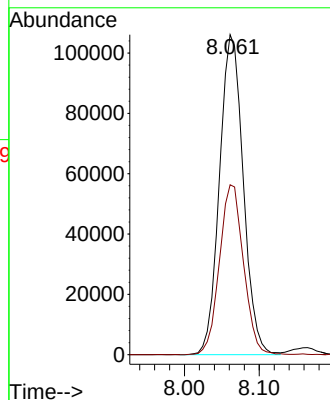
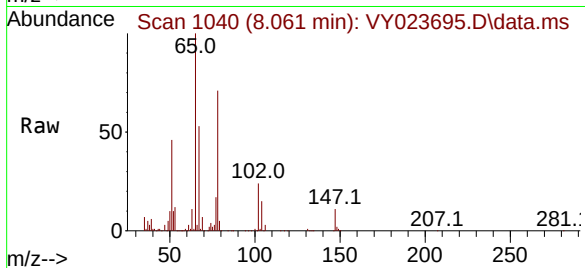
67 53.7 0.0 107.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

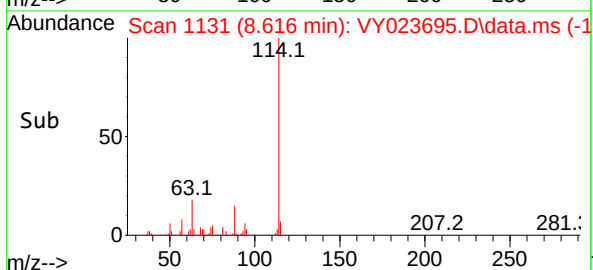
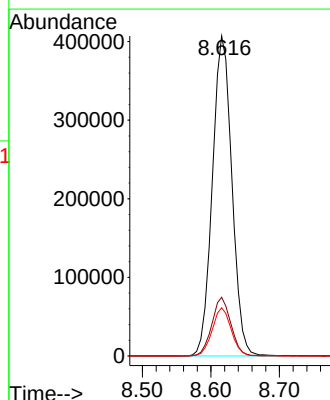
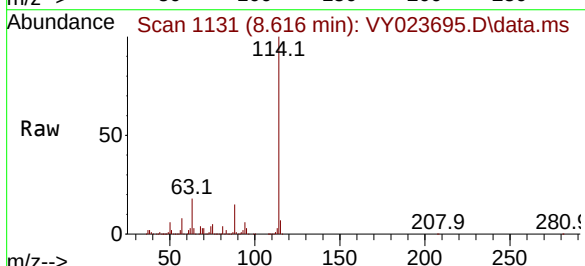
Tgt Ion:114 Resp: 804208

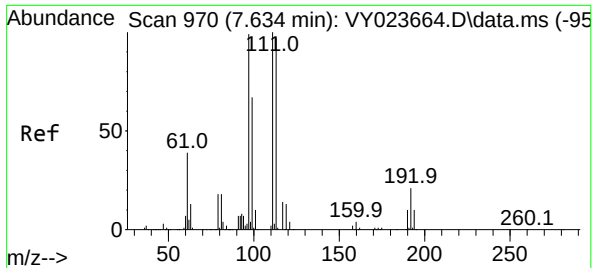
Ion Ratio Lower Upper

114 100

63 18.4 0.0 33.8

88 15.1 0.0 29.0





#35

Dibromofluoromethane

Concen: 50.408 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:113 Resp: 25333

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

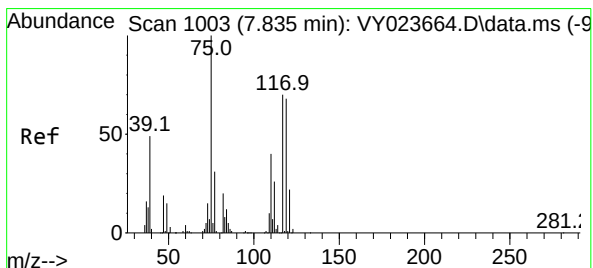
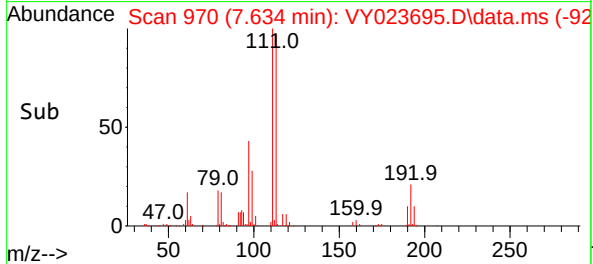
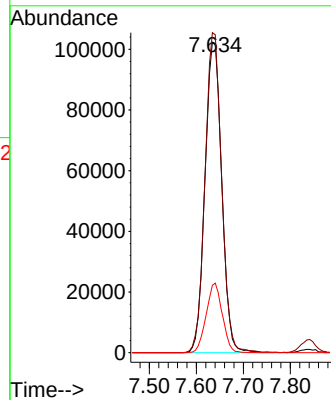
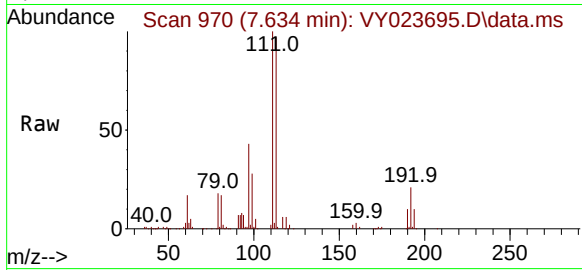
192 21.5 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#36

1,1-Dichloropropene

Concen: 20.641 ug/l

RT: 7.835 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

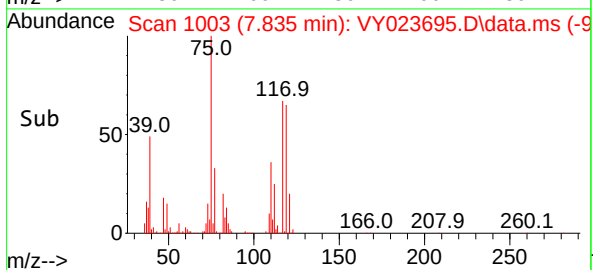
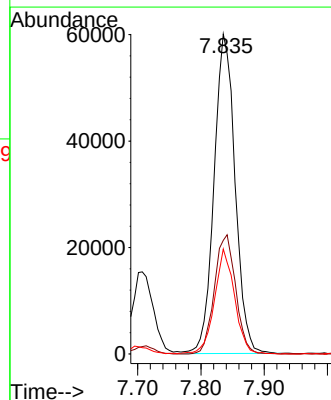
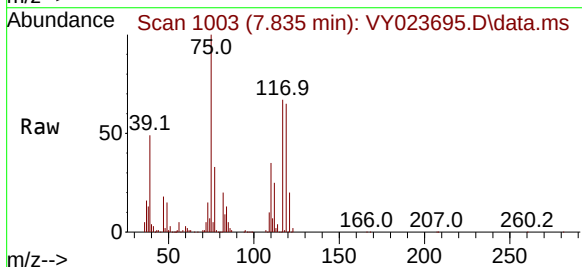
Tgt Ion: 75 Resp: 138622

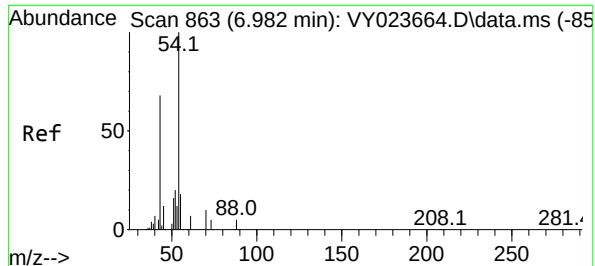
Ion Ratio Lower Upper

75 100

110 37.7 19.7 59.0

77 31.4 25.2 37.8





#37

Ethyl Acetate

Concen: 21.509 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY023695.D

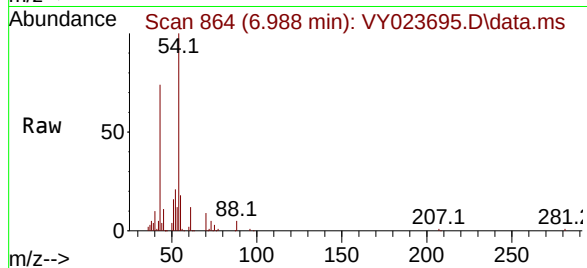
Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 43 Resp: 55918

Ion Ratio Lower Upper

43 100

61 16.0 12.4 18.6

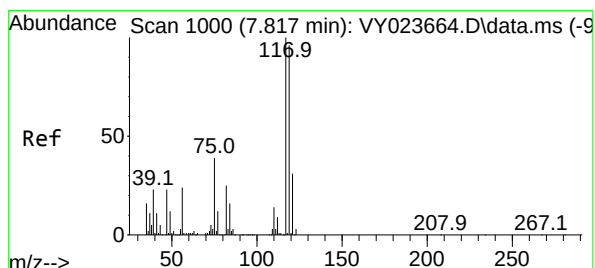
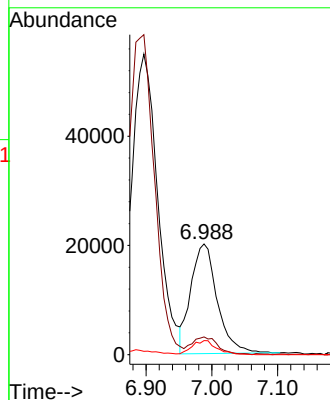
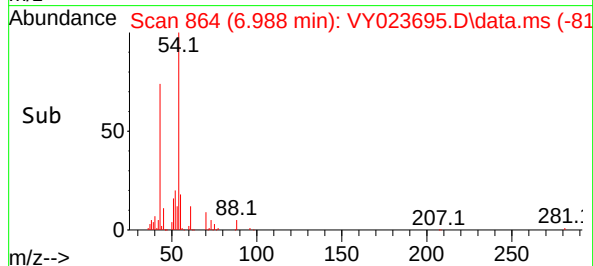
70 12.0 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#38

Carbon Tetrachloride

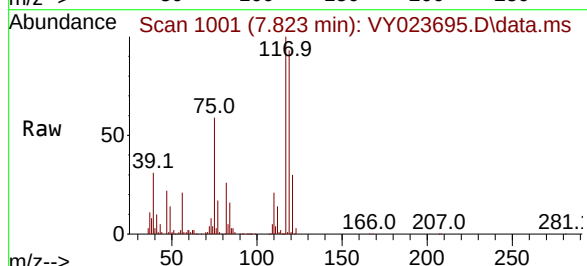
Concen: 20.220 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07



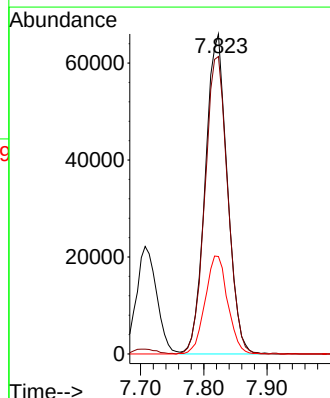
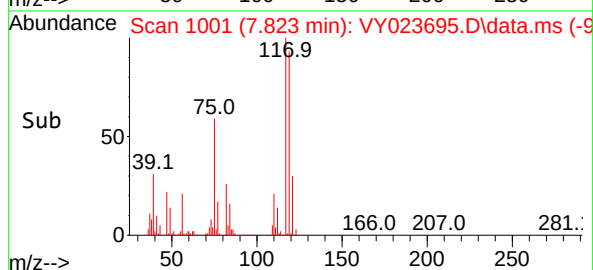
Tgt Ion:117 Resp: 159996

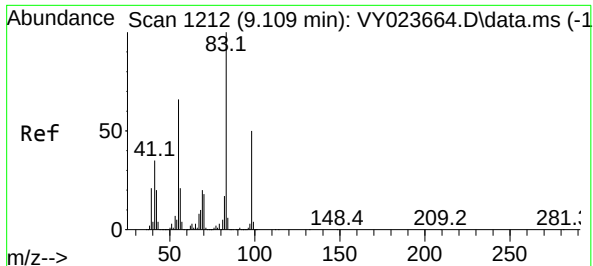
Ion Ratio Lower Upper

117 100

119 92.9 76.3 114.5

121 30.4 24.8 37.2





#39

Methylcyclohexane

Concen: 20.088 ug/l

RT: 9.110 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VY023695.D

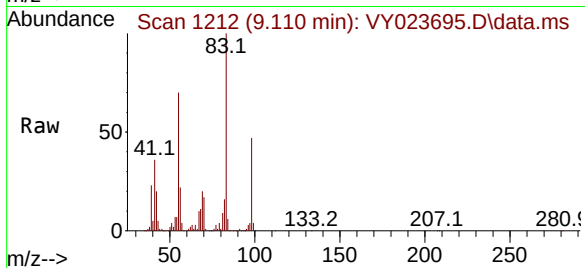
Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion: 83 Resp: 17237

Ion Ratio Lower Upper

83 100

55 69.5 52.6 78.8

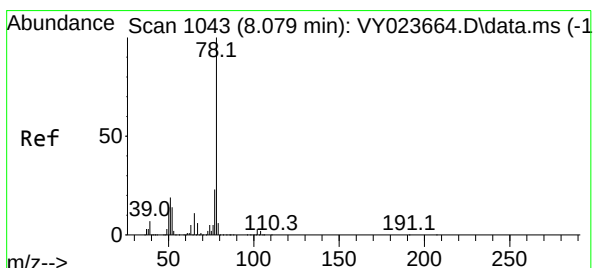
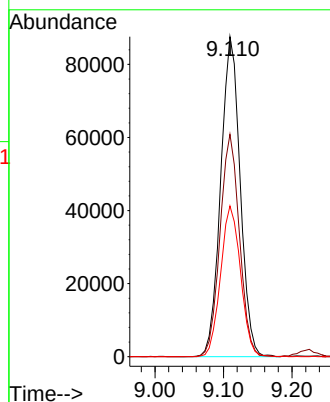
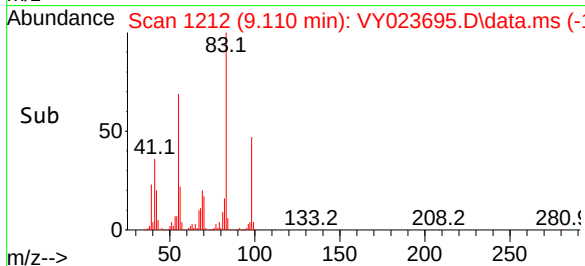
98 47.1 39.7 59.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#40

Benzene

Concen: 21.220 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VY023695.D

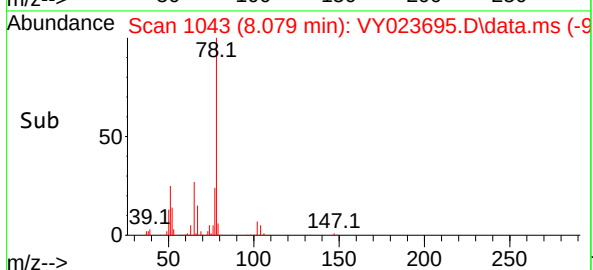
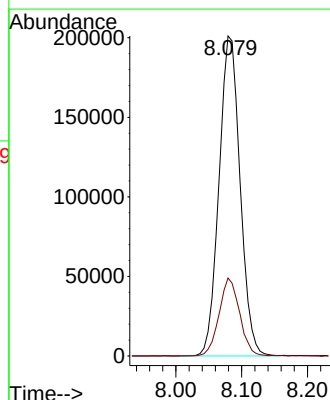
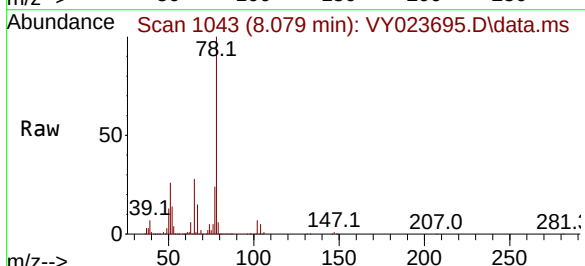
Acq: 06 Nov 2025 10:07

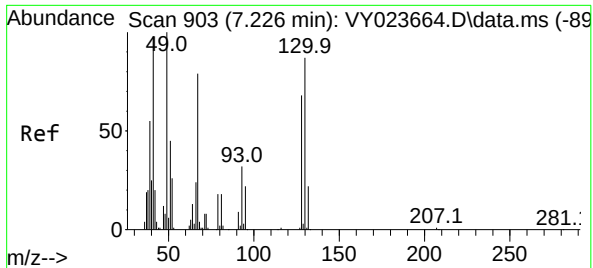
Tgt Ion: 78 Resp: 449187

Ion Ratio Lower Upper

78 100

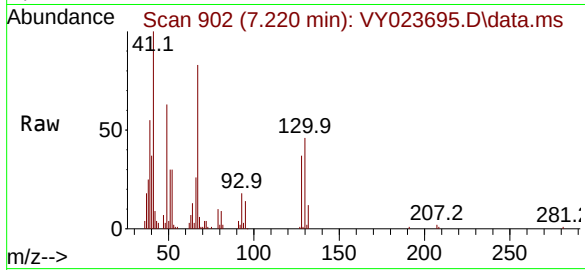
77 24.3 18.8 28.2





#41  
Methacrylonitrile  
Concen: 17.792 ug/l  
RT: 7.220 min Scan# 903  
Delta R.T. -0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

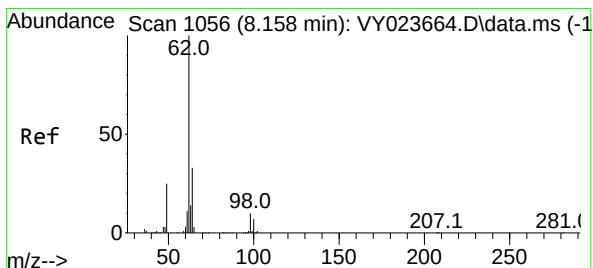
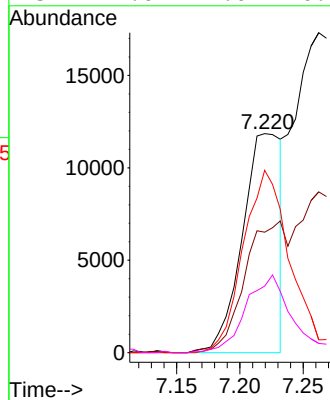
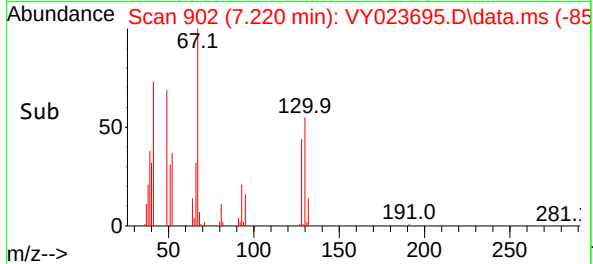
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 41 Resp: 25249  
Ion Ratio Lower Upper  
41 100  
39 66.0 38.6 57.8  
67 101.4 71.3 106.9  
52 42.6 27.0 40.4

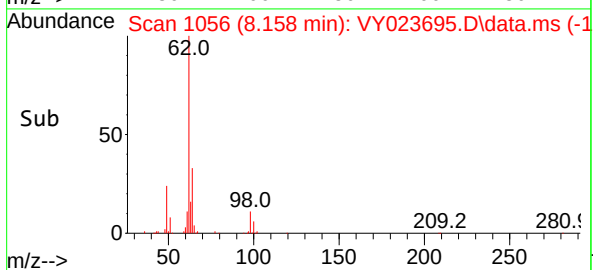
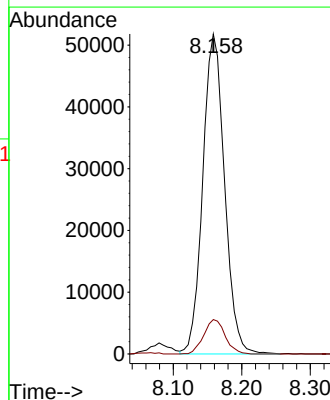
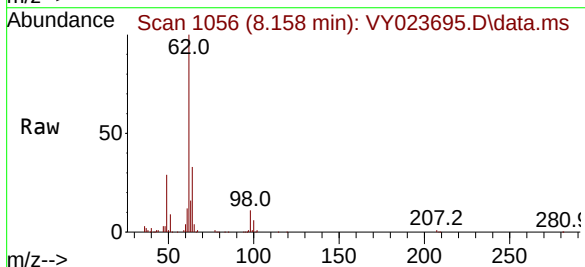
Manual Integrations  
APPROVED

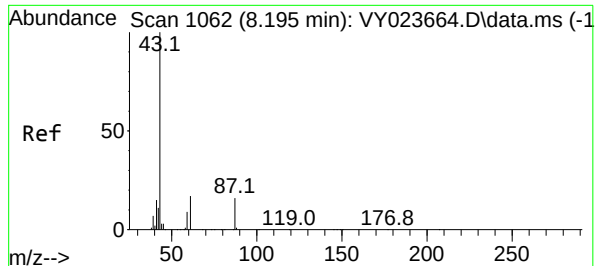
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#42  
1,2-Dichloroethane  
Concen: 21.395 ug/l  
RT: 8.158 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion: 62 Resp: 114582  
Ion Ratio Lower Upper  
62 100  
98 10.6 0.0 21.0





#43

Isopropyl Acetate

Concen: 21.516 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 43 Resp: 10510

Ion Ratio Lower Upper

43 100

61 20.5 18.2 27.2

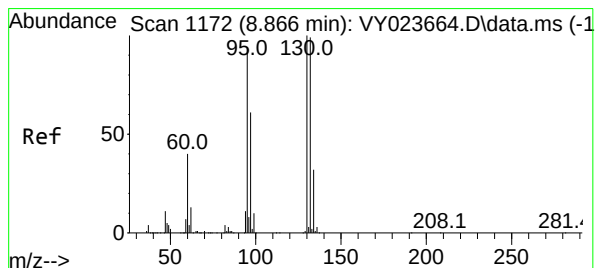
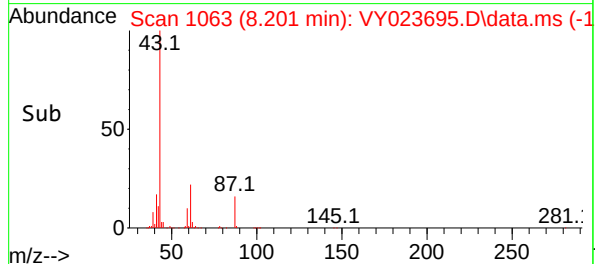
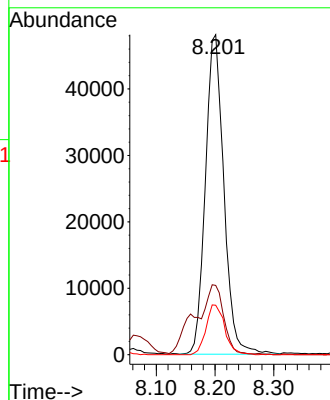
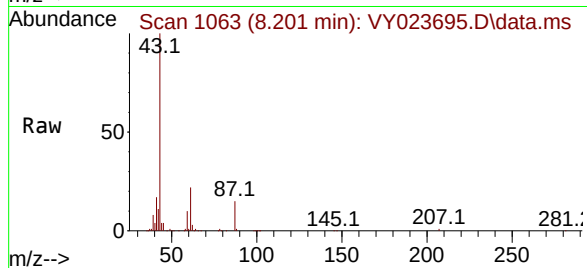
87 15.8 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#44

Trichloroethene

Concen: 20.572 ug/l

RT: 8.866 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VY023695.D

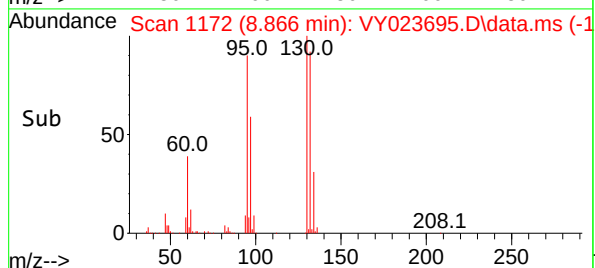
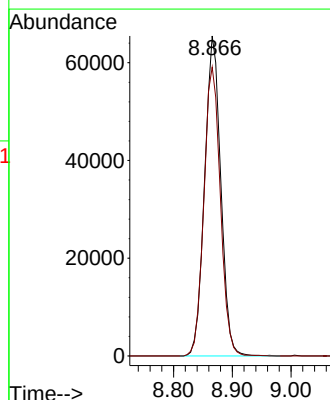
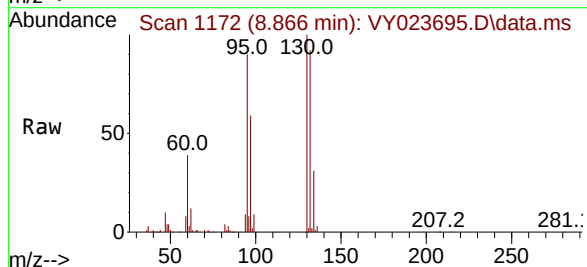
Acq: 06 Nov 2025 10:07

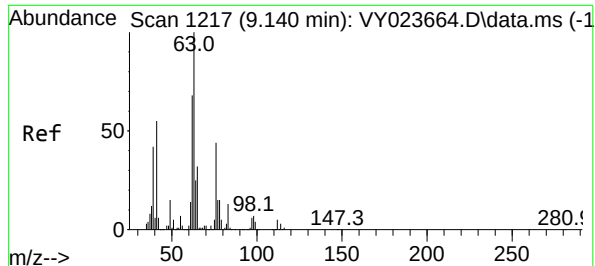
Tgt Ion:130 Resp: 125077

Ion Ratio Lower Upper

130 100

95 90.3 0.0 187.0





#45

1,2-Dichloropropane

Concen: 21.264 ug/l

RT: 9.140 min Scan# 1217

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 63 Resp: 9934

Ion Ratio Lower Upper

63 100

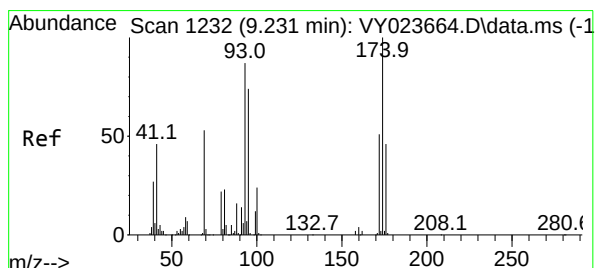
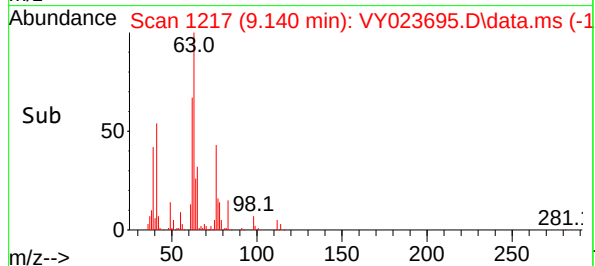
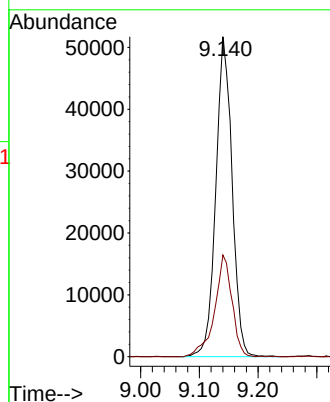
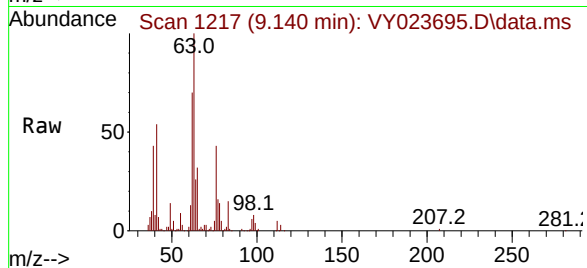
65 31.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#46

Dibromomethane

Concen: 21.056 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

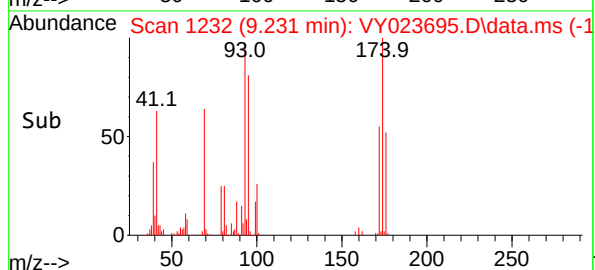
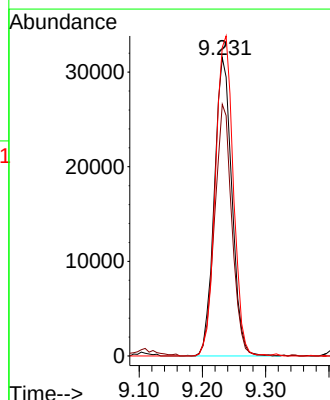
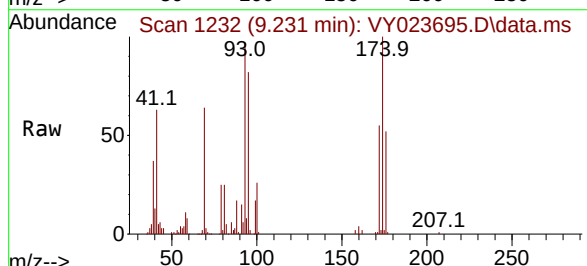
Tgt Ion: 93 Resp: 60952

Ion Ratio Lower Upper

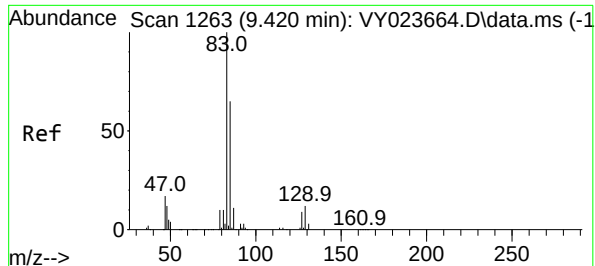
93 100

95 82.8 67.4 101.2

174 108.7 89.4 134.0







#47

Bromodichloromethane

Concen: 21.287 ug/l

RT: 9.427 min Scan# 1264

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 83 Resp: 15535

Ion Ratio Lower Upper

83 100

85 61.8 52.1 78.1

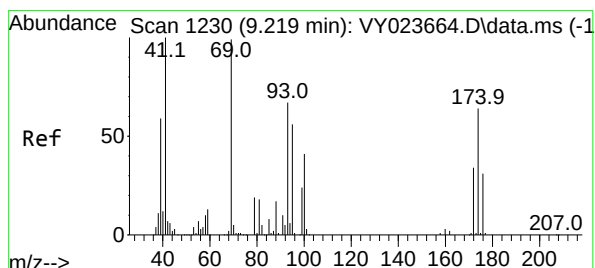
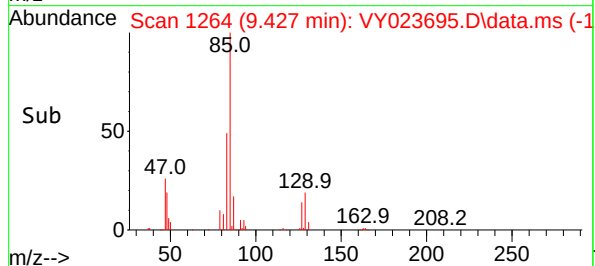
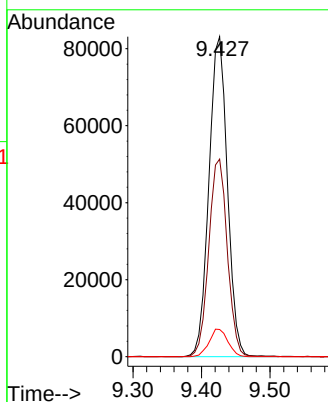
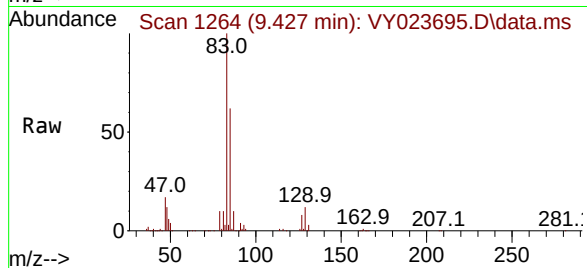
127 8.5 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#48

Methyl methacrylate

Concen: 20.775 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

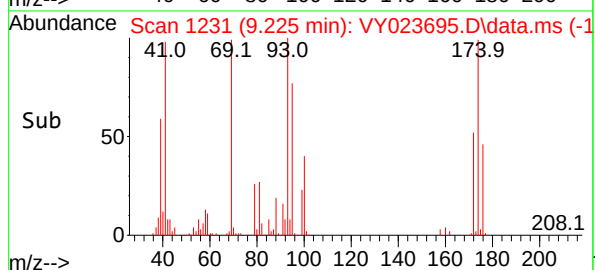
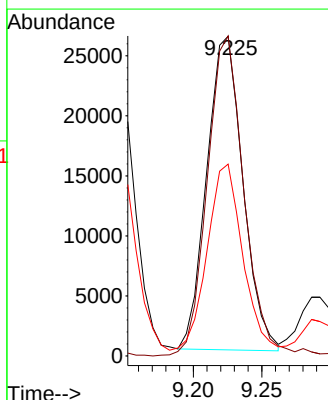
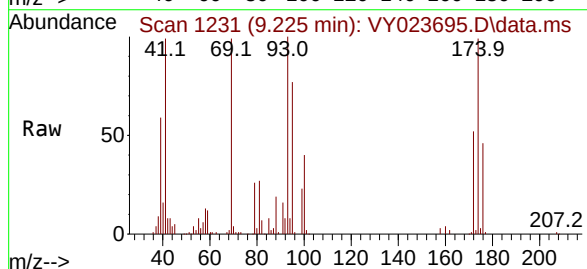
Tgt Ion: 41 Resp: 47946

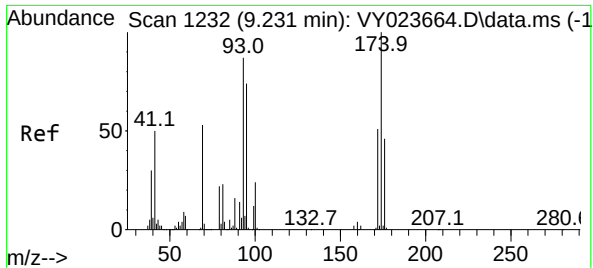
Ion Ratio Lower Upper

41 100

69 104.4 80.2 120.2

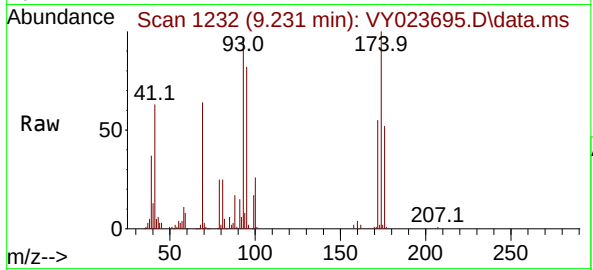
39 58.0 47.4 71.0





#49  
1,4-Dioxane  
Concen: 423.874 ug/l  
RT: 9.231 min Scan# 1232  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

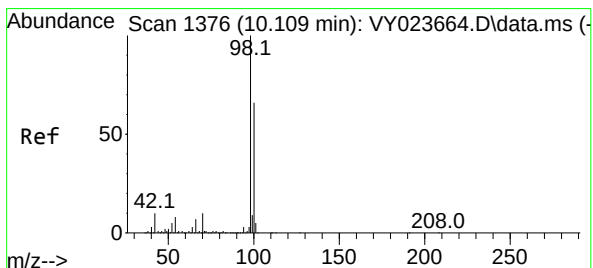
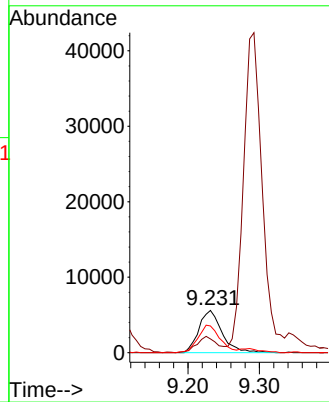
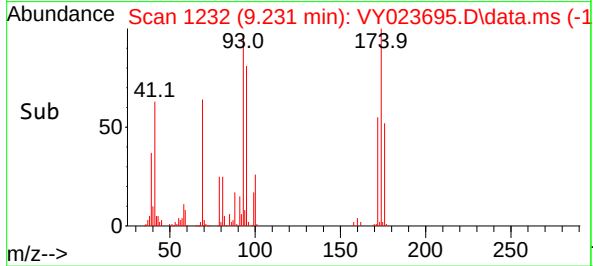
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 88 Resp: 1255  
Ion Ratio Lower Upper  
88 100  
43 35.5 22.0 33.0  
58 61.7 47.8 71.8

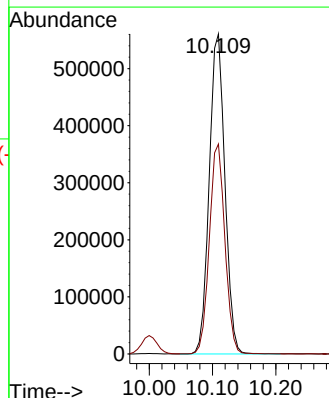
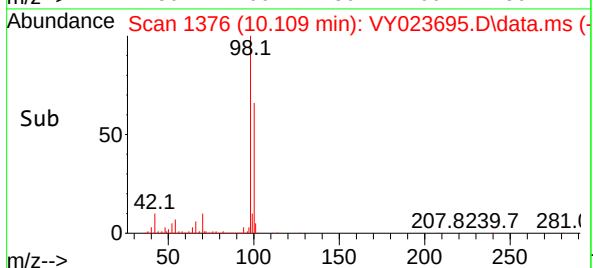
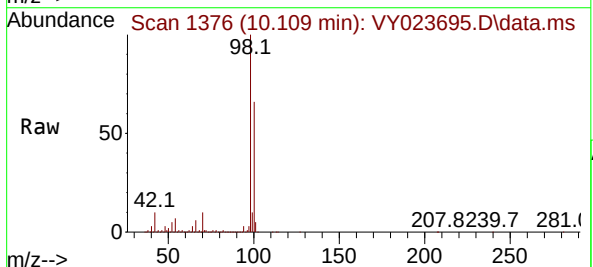
Manual Integrations  
APPROVED

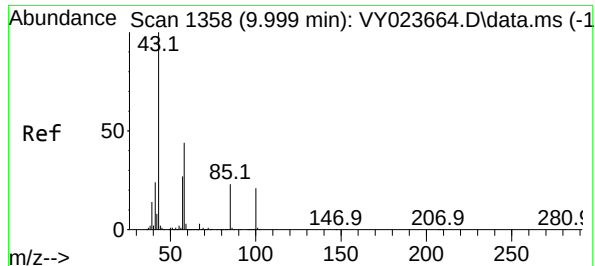
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#50  
Toluene-d8  
Concen: 51.544 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion: 98 Resp: 964970  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.7 79.1





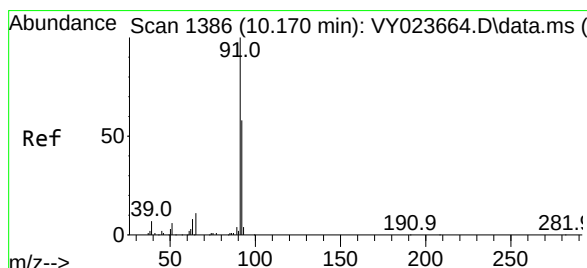
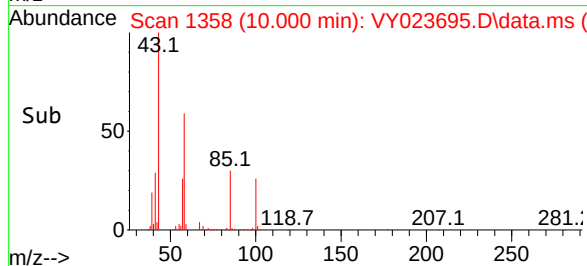
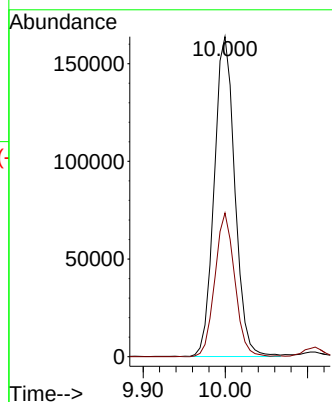
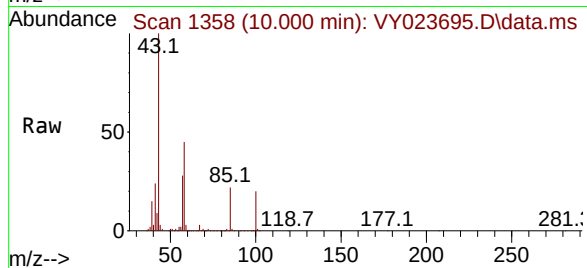
#51  
4-Methyl-2-Pentanone  
Concen: 109.854 ug/l  
RT: 10.000 min Scan# 1358  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Tgt Ion: 43 Resp: 285374  
Ion Ratio Lower Upper  
43 100  
58 43.4 34.8 52.2

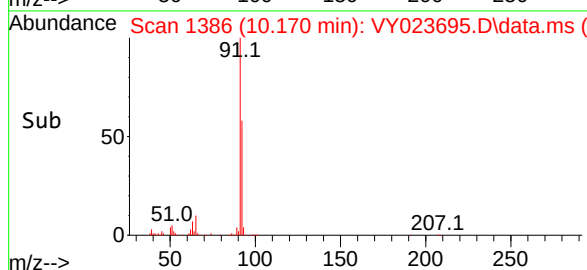
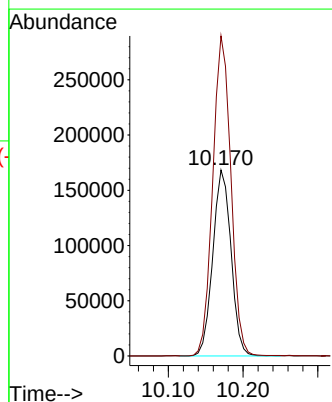
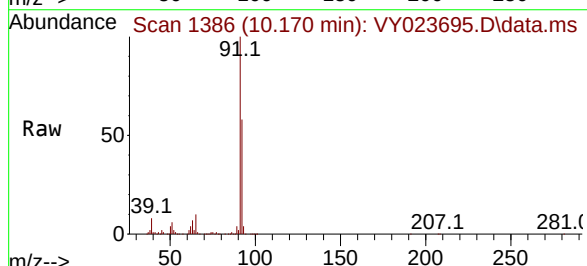
Manual Integrations  
APPROVED

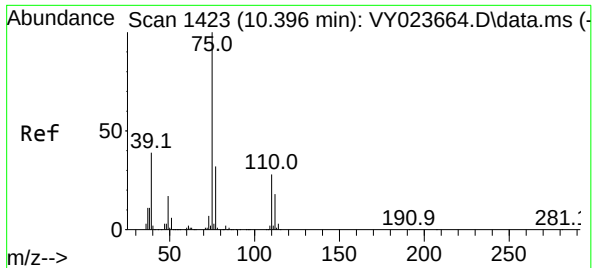
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#52  
Toluene  
Concen: 21.054 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

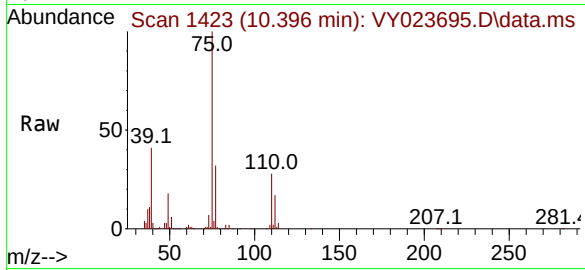
Tgt Ion: 92 Resp: 284543  
Ion Ratio Lower Upper  
92 100  
91 172.0 137.8 206.8





#53  
t-1,3-Dichloropropene  
Concen: 21.306 ug/l  
RT: 10.396 min Scan# 1423  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

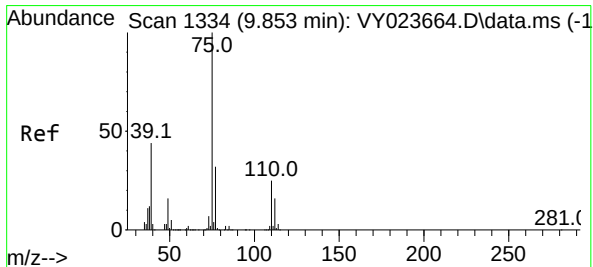
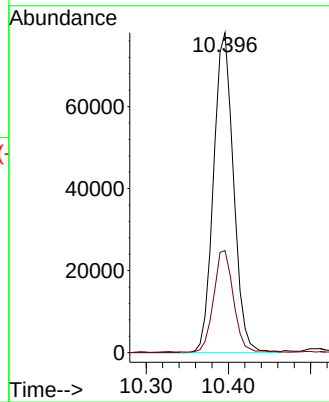
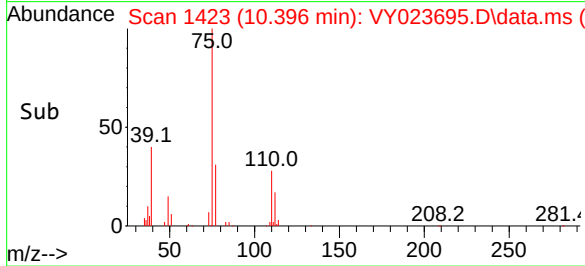
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 75 Resp: 13157  
Ion Ratio Lower Upper  
75 100  
77 31.7 25.6 38.4

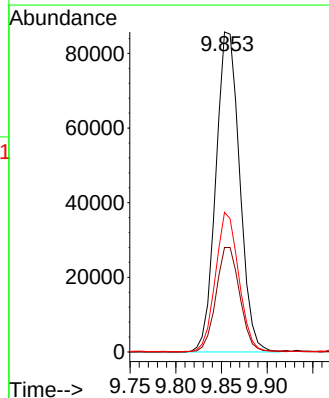
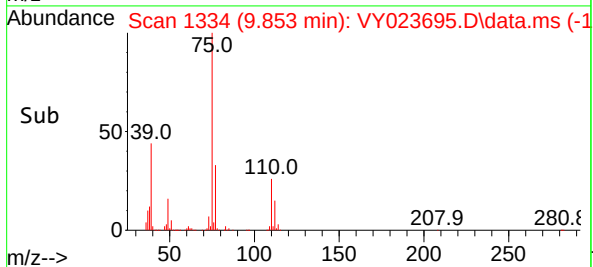
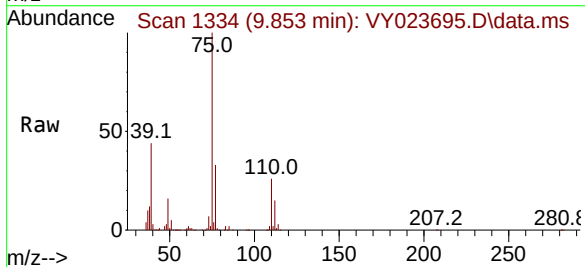
Manual Integrations  
APPROVED

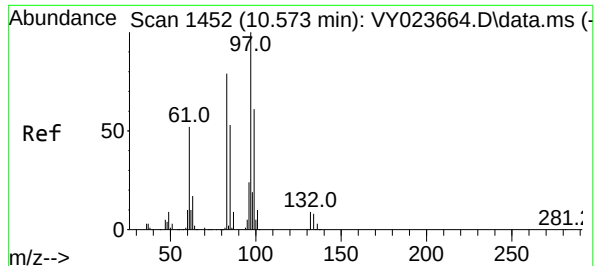
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#54  
cis-1,3-Dichloropropene  
Concen: 21.025 ug/l  
RT: 9.853 min Scan# 1334  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

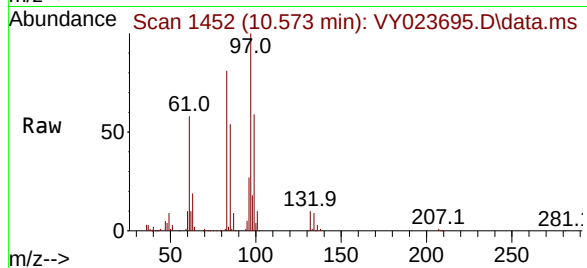
Tgt Ion: 75 Resp: 155558  
Ion Ratio Lower Upper  
75 100  
77 32.7 25.7 38.5  
39 43.6 34.9 52.3





#55  
1,1,2-Trichloroethane  
Concen: 21.317 ug/l  
RT: 10.573 min Scan# 1452  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

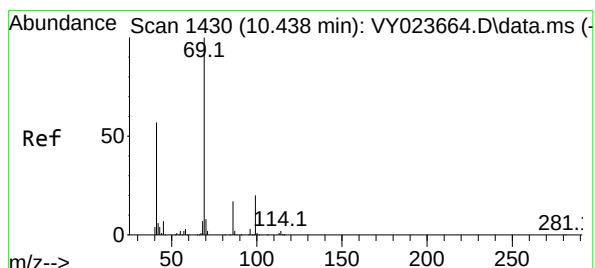
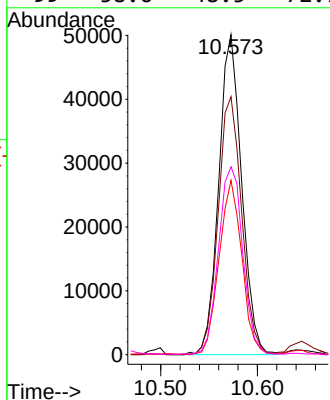
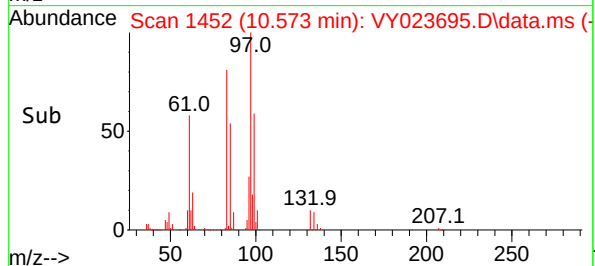
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 97 Resp: 82468  
Ion Ratio Lower Upper  
97 100  
83 80.6 63.3 94.9  
85 54.3 42.4 63.6  
99 58.6 48.5 72.7

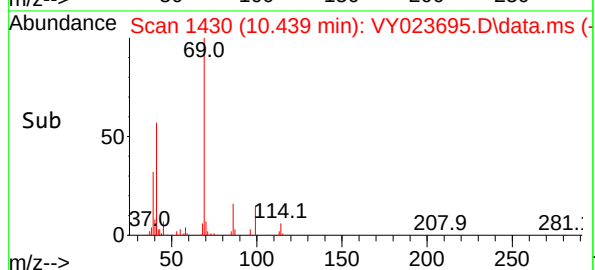
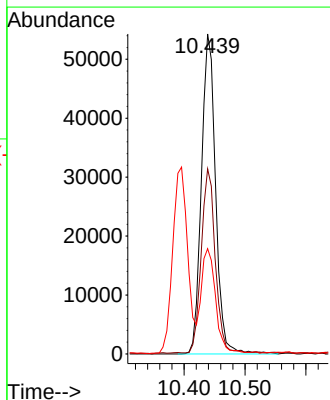
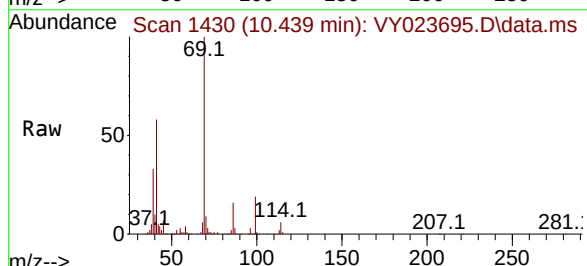
Manual Integrations  
APPROVED

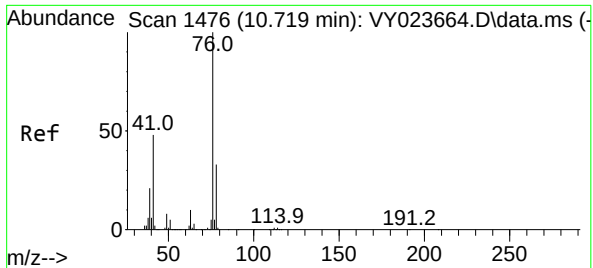
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#56  
Ethyl methacrylate  
Concen: 20.616 ug/l  
RT: 10.439 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

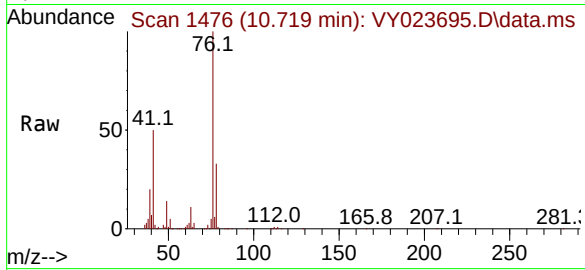
Tgt Ion: 69 Resp: 87872  
Ion Ratio Lower Upper  
69 100  
41 56.5 45.0 67.4  
39 32.0 25.1 37.7





#57  
1,3-Dichloropropane  
Concen: 21.467 ug/l  
RT: 10.719 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

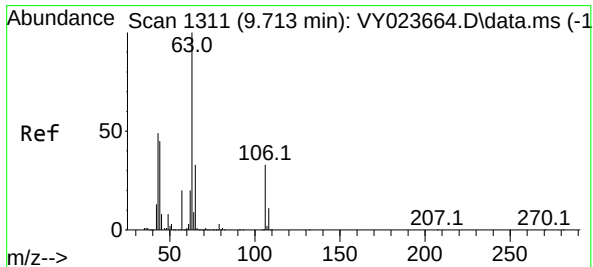
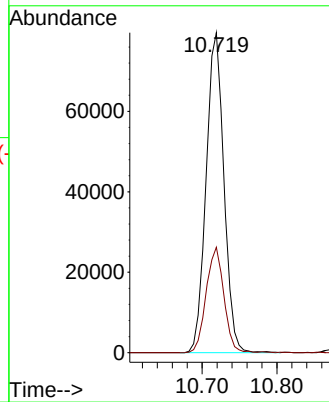
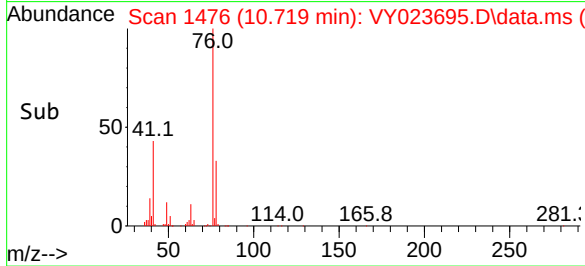
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 76 Resp: 13172  
Ion Ratio Lower Upper  
76 100  
78 32.8 26.0 39.0

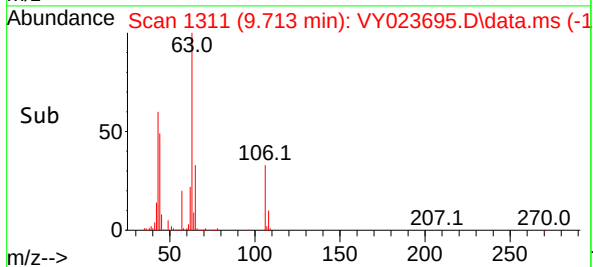
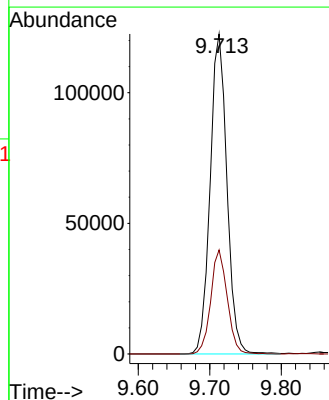
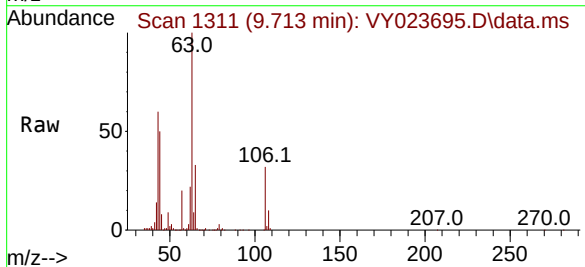
Manual Integrations  
APPROVED

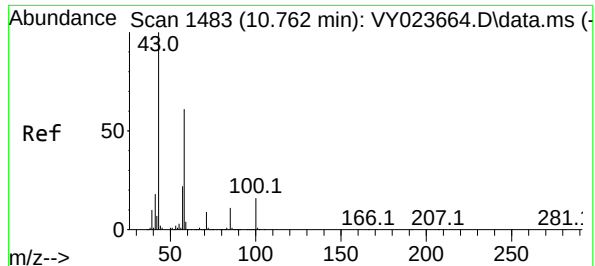
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#58  
2-Chloroethyl Vinyl ether  
Concen: 102.140 ug/l  
RT: 9.713 min Scan# 1311  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

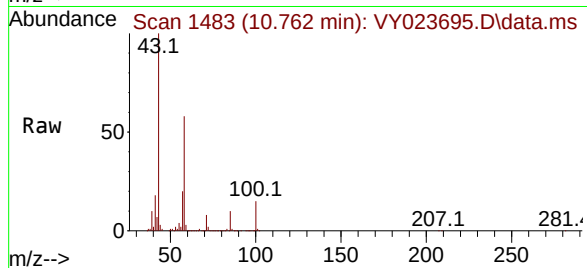
Tgt Ion: 63 Resp: 199771  
Ion Ratio Lower Upper  
63 100  
106 31.9 26.2 39.2





#59  
2-Hexanone  
Concen: 114.583 ug/l  
RT: 10.762 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

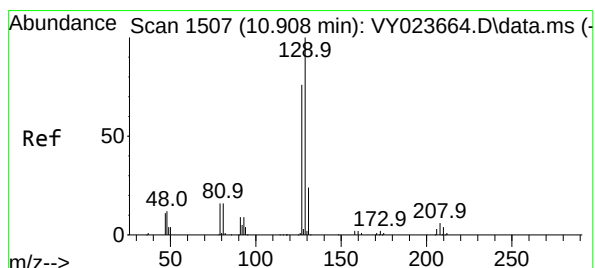
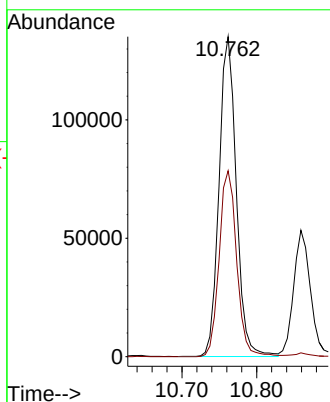
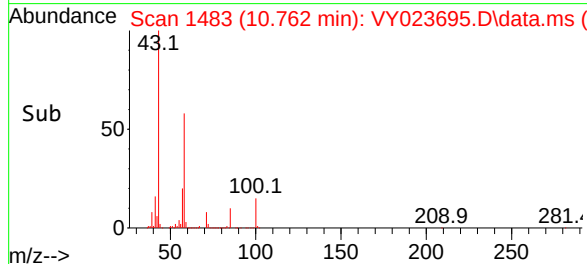
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 43 Resp: 21716  
Ion Ratio Lower Upper  
43 100  
58 59.2 30.2 90.6

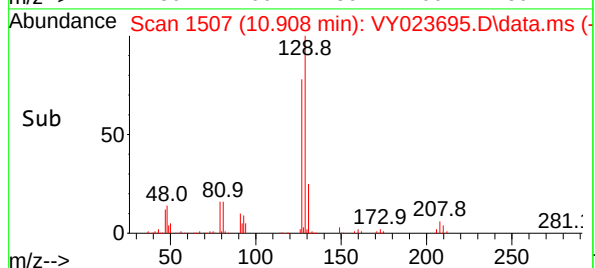
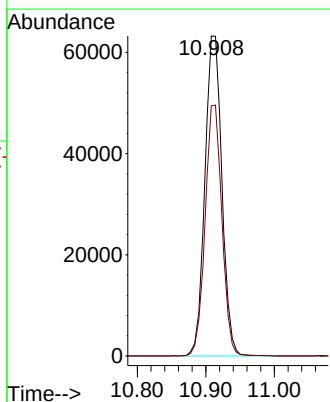
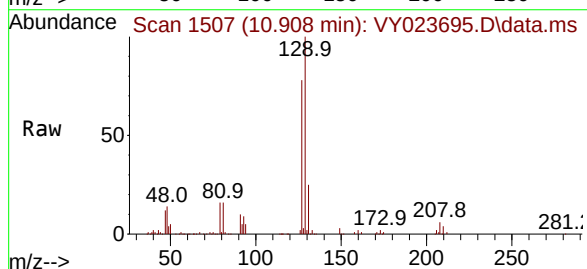
Manual Integrations  
APPROVED

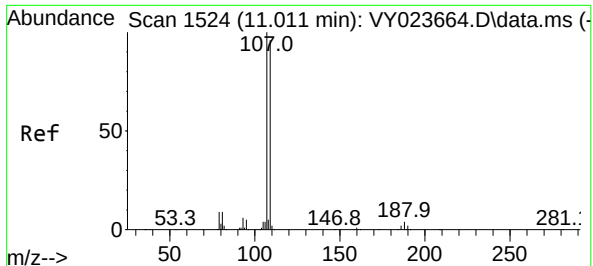
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#60  
Dibromochloromethane  
Concen: 20.558 ug/l  
RT: 10.908 min Scan# 1507  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

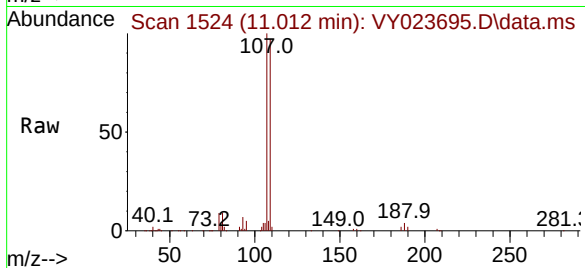
Tgt Ion:129 Resp: 109270  
Ion Ratio Lower Upper  
129 100  
127 77.4 38.4 115.2





#61  
1,2-Dibromoethane  
Concen: 21.256 ug/l  
RT: 11.012 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

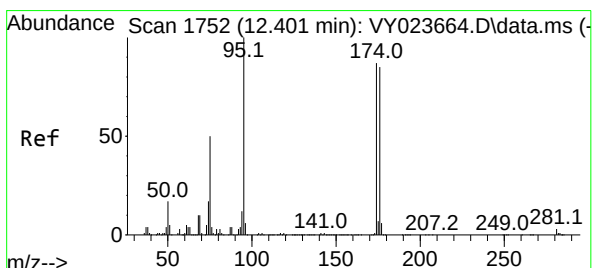
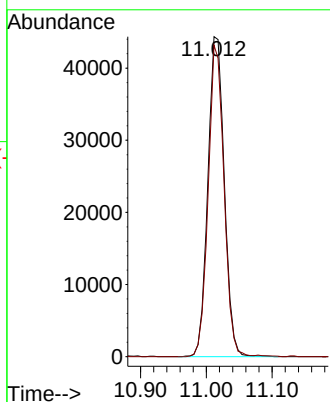
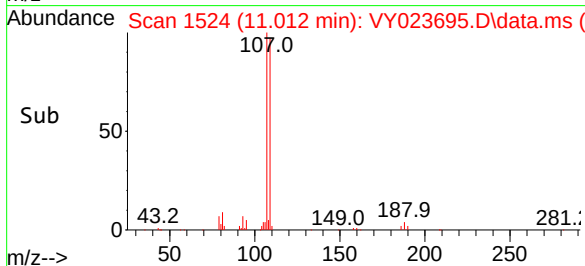
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



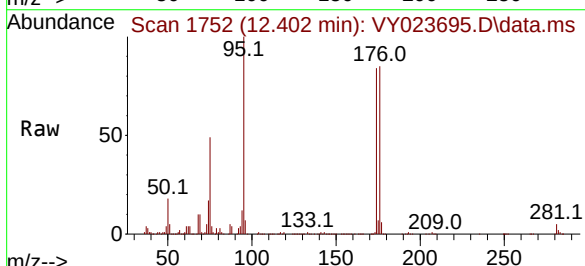
Tgt Ion:107 Resp: 77170  
Ion Ratio Lower Upper  
107 100  
109 93.4 76.2 114.4

Manual Integrations  
APPROVED

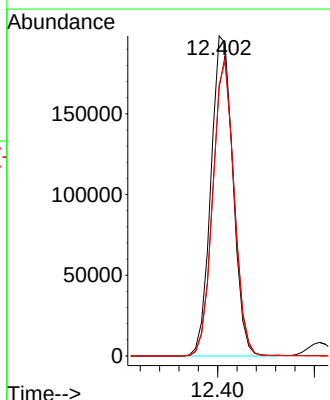
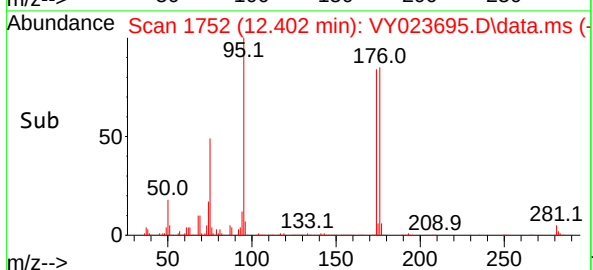
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



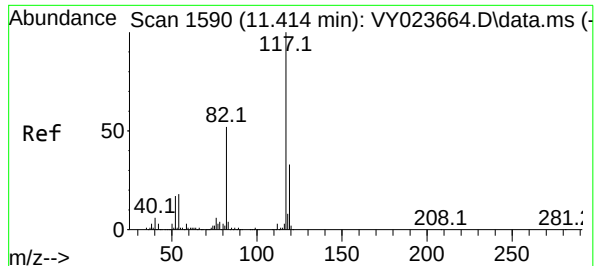
#62  
4-Bromofluorobenzene  
Concen: 51.661 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



Tgt Ion: 95 Resp: 312769  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 184.8  
176 89.0 0.0 181.6

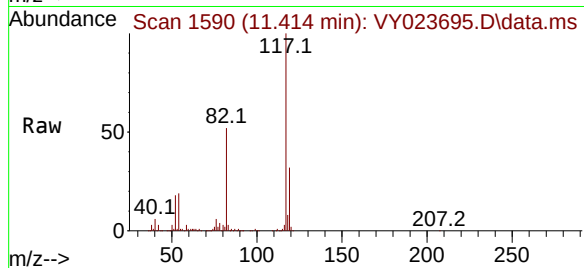






#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

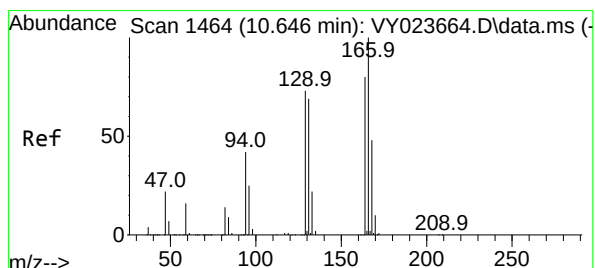
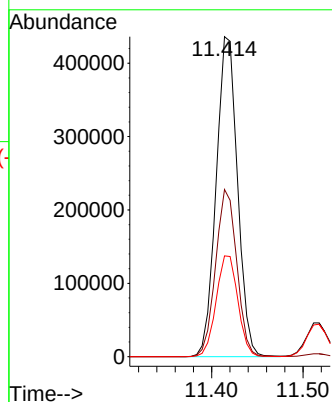
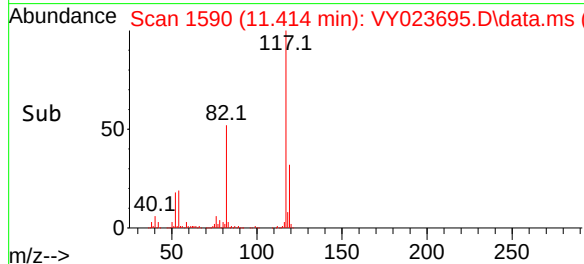
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



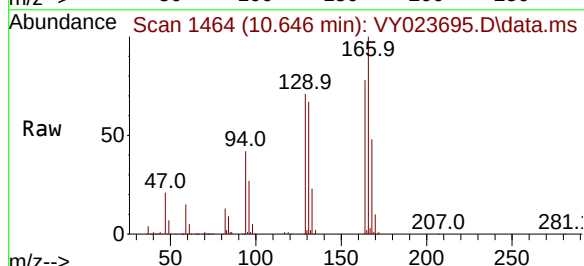
Tgt Ion:117 Resp: 70872  
Ion Ratio Lower Upper  
117 100  
82 52.2 41.2 61.8  
119 31.5 26.2 39.2

Manual Integrations  
APPROVED

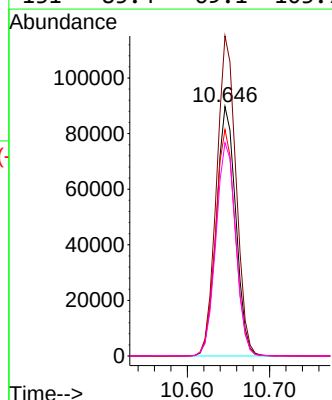
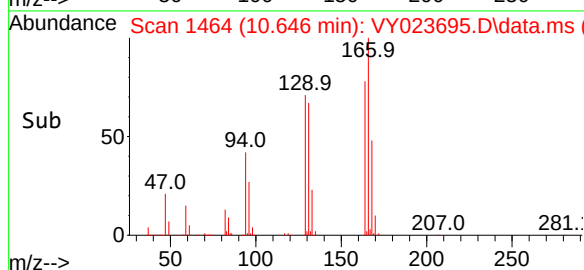
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

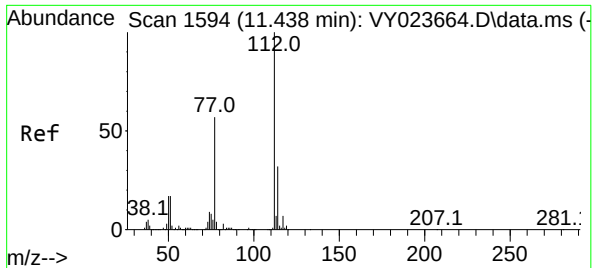


#64  
Tetrachloroethene  
Concen: 20.054 ug/l  
RT: 10.646 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



Tgt Ion:164 Resp: 147935  
Ion Ratio Lower Upper  
164 100  
166 128.2 99.5 149.3  
129 90.7 72.3 108.5  
131 85.4 69.1 103.7





#65

Chlorobenzene

Concen: 20.368 ug/l

RT: 11.444 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:112 Resp: 314254

Ion Ratio Lower Upper

112 100

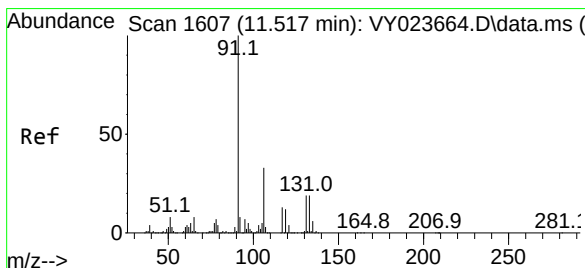
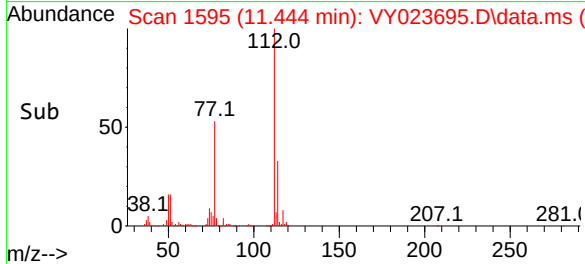
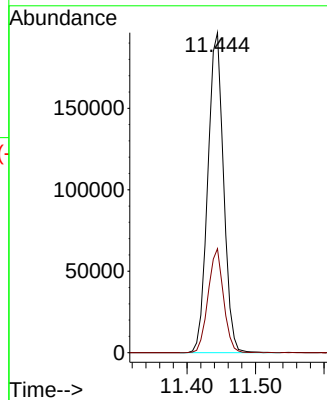
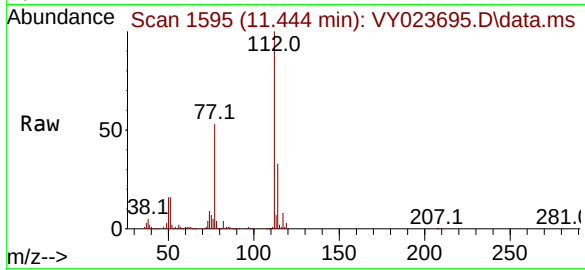
114 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.496 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

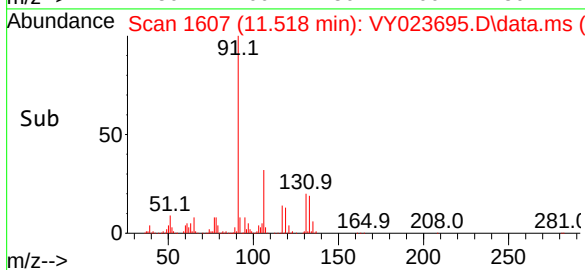
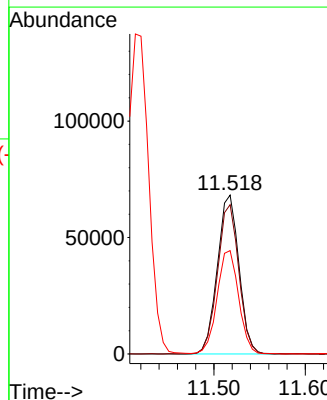
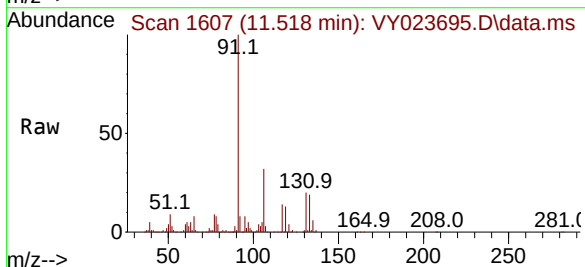
Tgt Ion:131 Resp: 111820

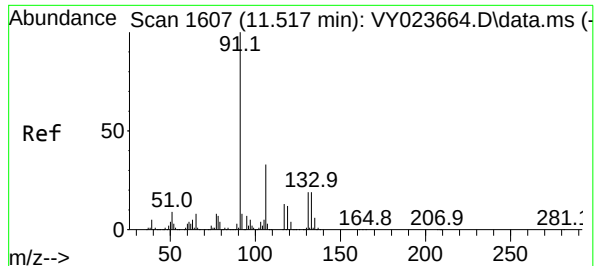
Ion Ratio Lower Upper

131 100

133 93.2 47.3 141.8

119 65.2 32.5 97.4





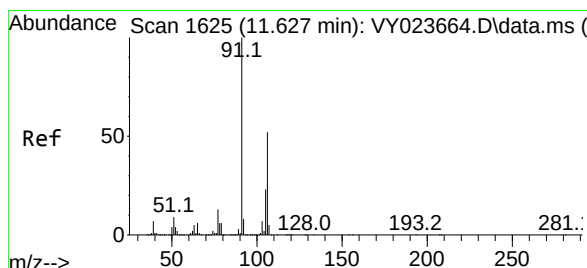
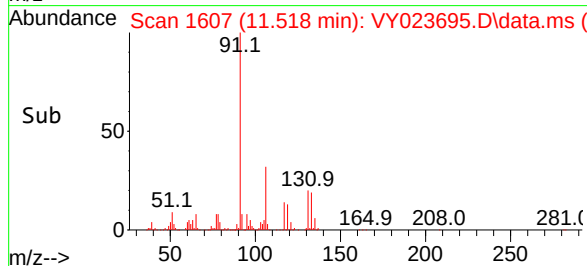
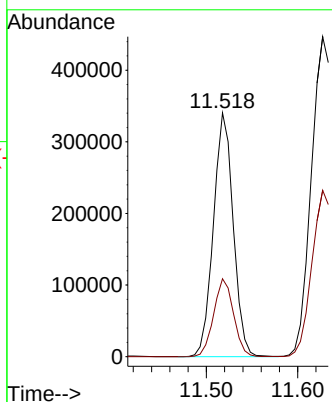
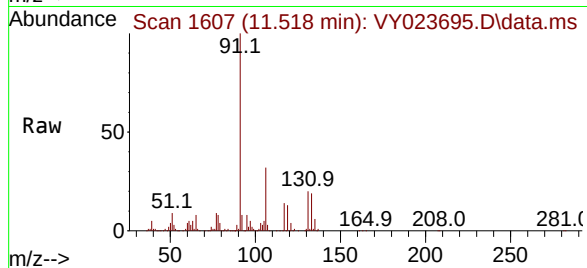
#67  
Ethyl Benzene  
Concen: 20.522 ug/l  
RT: 11.518 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBSD01

Tgt Ion: 91 Resp: 512468  
Ion Ratio Lower Upper  
91 100  
106 32.0 26.6 40.0

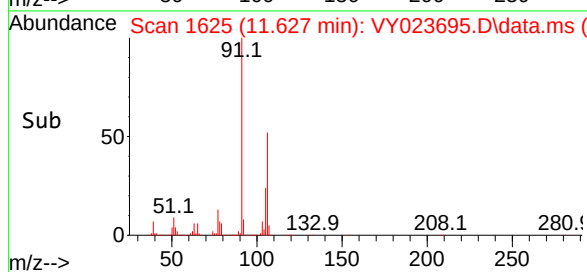
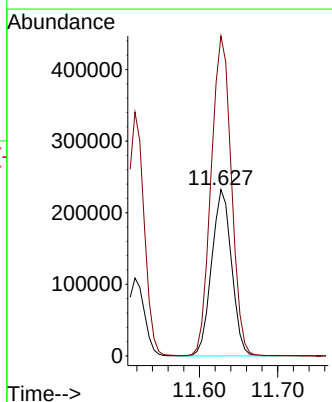
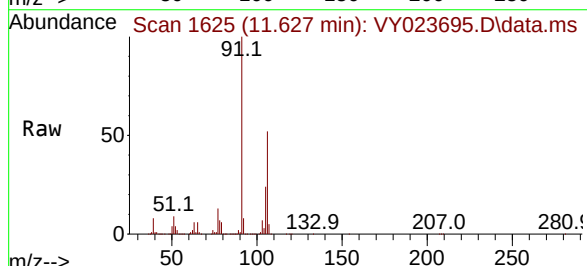
Manual Integrations  
APPROVED

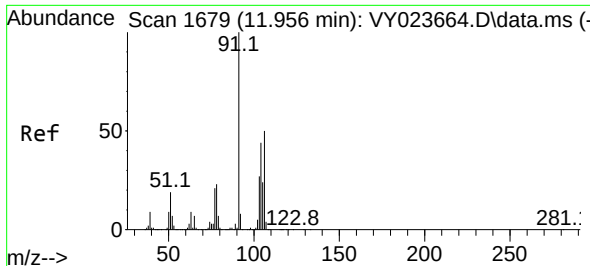
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#68  
m/p-Xylenes  
Concen: 41.199 ug/l  
RT: 11.627 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

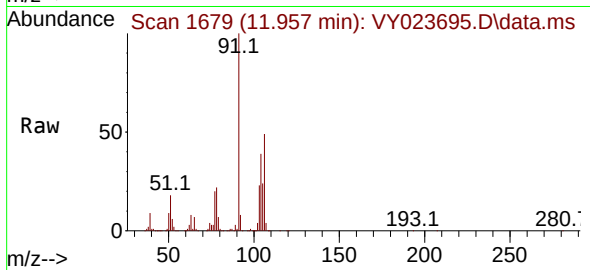
Tgt Ion:106 Resp: 411043  
Ion Ratio Lower Upper  
106 100  
91 196.0 154.3 231.5





#69  
o-Xylene  
Concen: 20.146 ug/l  
RT: 11.957 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

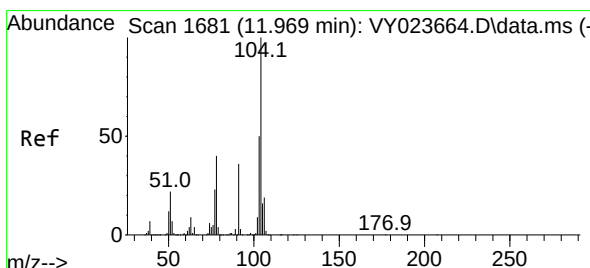
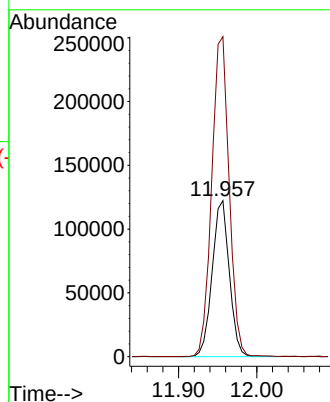
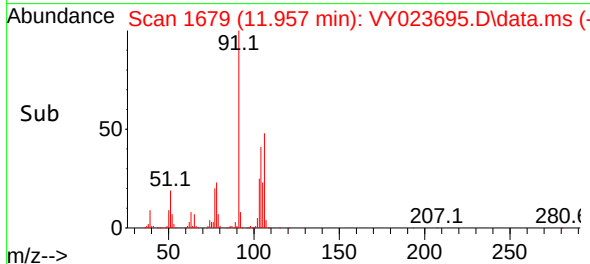
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBSD01



Tgt Ion:106 Resp: 185795  
Ion Ratio Lower Upper  
106 100  
91 208.5 101.6 304.6

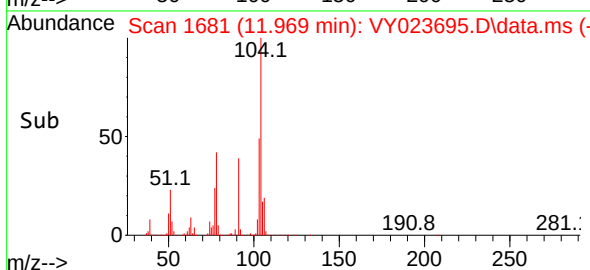
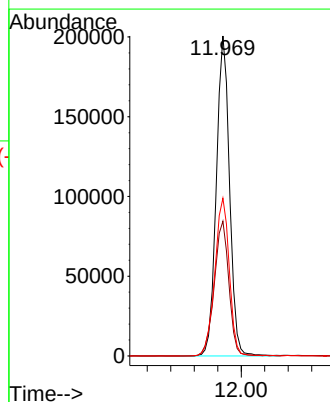
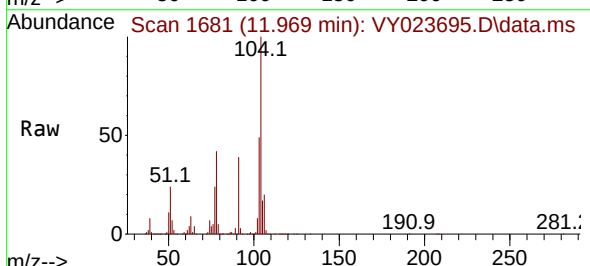
Manual Integrations  
APPROVED

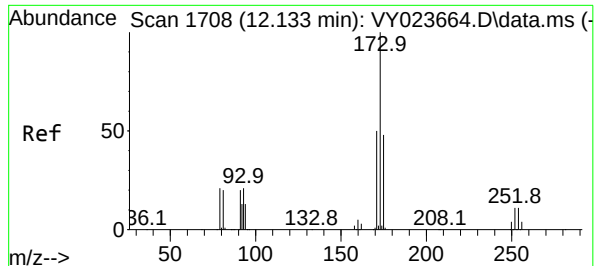
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#70  
Styrene  
Concen: 20.599 ug/l  
RT: 11.969 min Scan# 1681  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

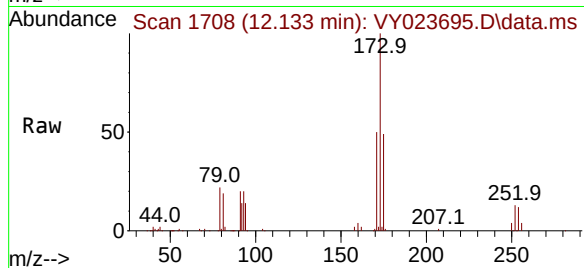
Tgt Ion:104 Resp: 313455  
Ion Ratio Lower Upper  
104 100  
78 46.5 36.5 54.7  
103 53.9 43.7 65.5





#71  
Bromoform  
Concen: 20.952 ug/l  
RT: 12.133 min Scan# 1708  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

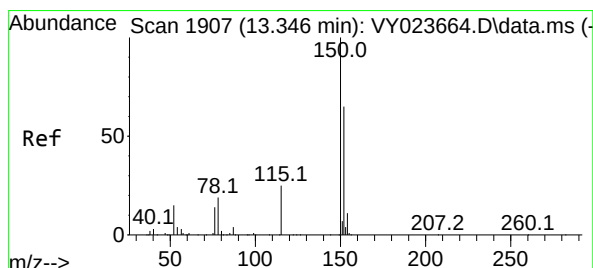
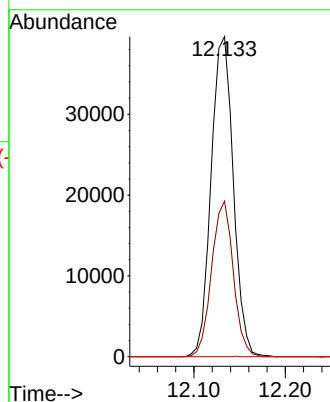
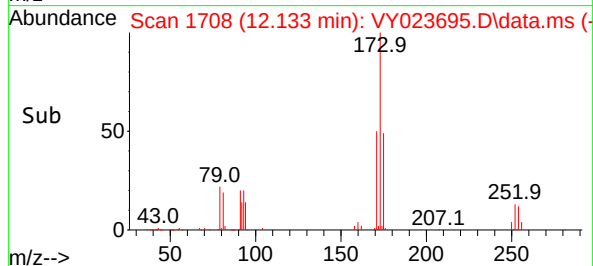
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



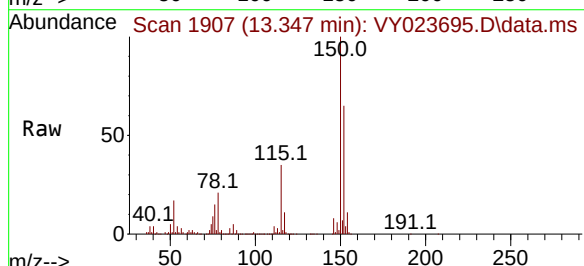
Tgt Ion:173 Resp: 66762  
Ion Ratio Lower Upper  
173 100  
175 47.5 24.2 72.6  
254 0.0 0.2 0.2

Manual Integrations  
APPROVED

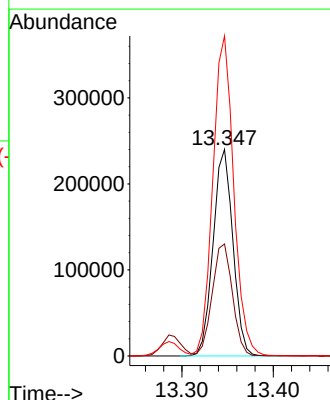
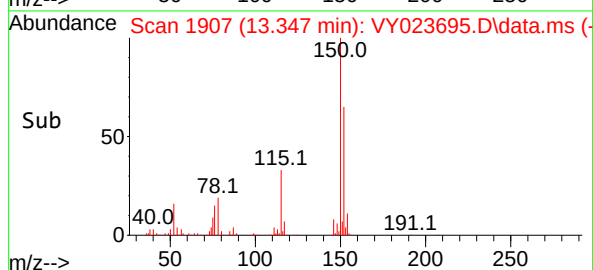
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

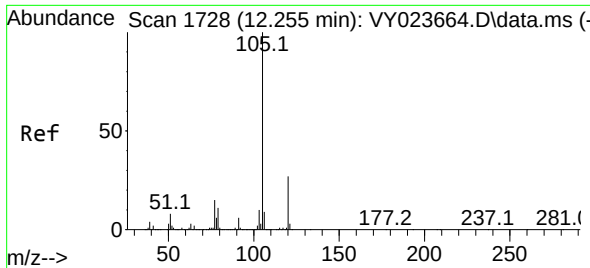


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



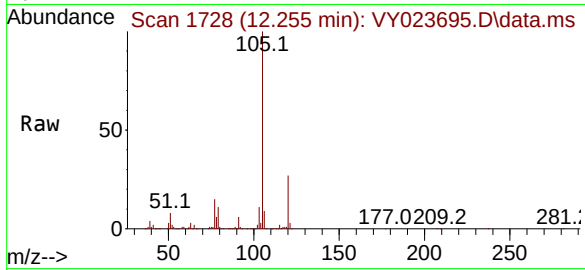
Tgt Ion:152 Resp: 361529  
Ion Ratio Lower Upper  
152 100  
115 55.6 27.5 82.5  
150 163.4 0.0 349.0





#73  
Isopropylbenzene  
Concen: 20.370 ug/l  
RT: 12.255 min Scan# 1728  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

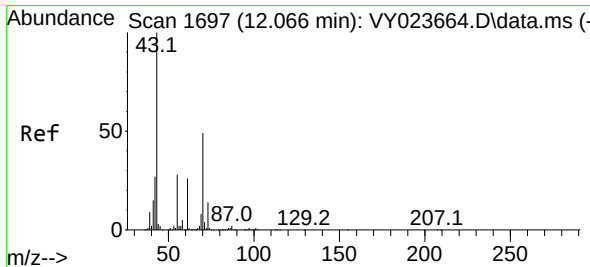
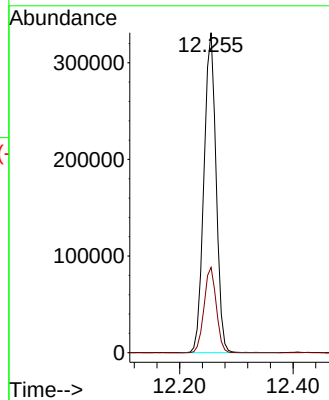
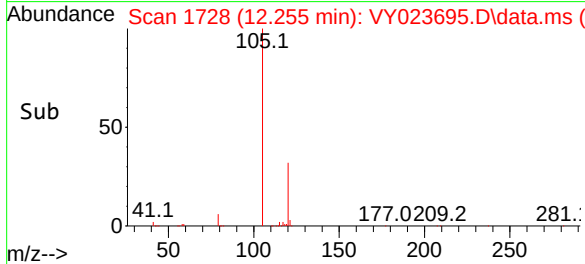
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:105 Resp: 492540  
Ion Ratio Lower Upper  
105 100  
120 26.7 13.6 40.7

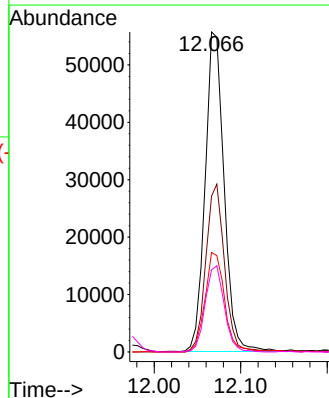
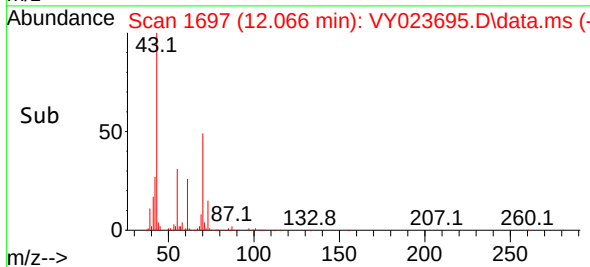
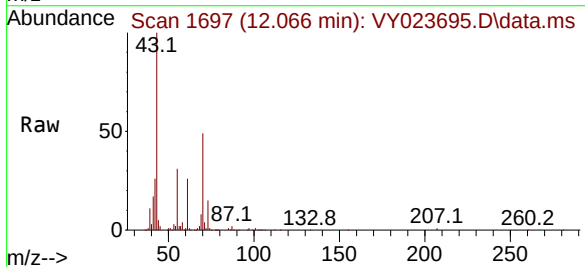
Manual Integrations  
APPROVED

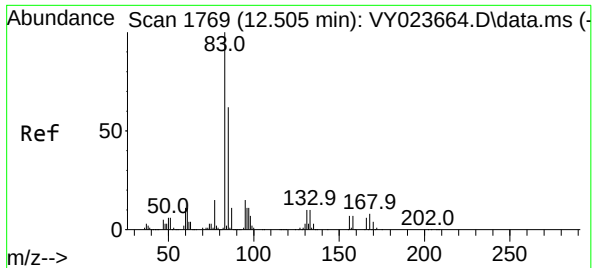
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#74  
N-ethyl acetate  
Concen: 20.683 ug/l  
RT: 12.066 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

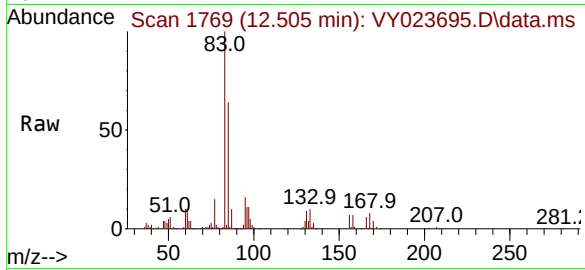
Tgt Ion: 43 Resp: 84670  
Ion Ratio Lower Upper  
43 100  
70 52.0 40.1 60.1  
55 32.1 23.0 34.6  
61 27.1 21.3 31.9





#75  
1,1,2,2-Tetrachloroethane  
Concen: 21.568 ug/l  
RT: 12.505 min Scan# 1769  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

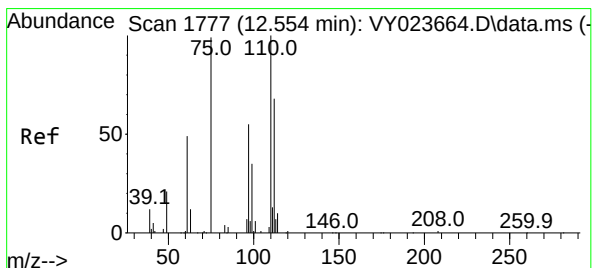
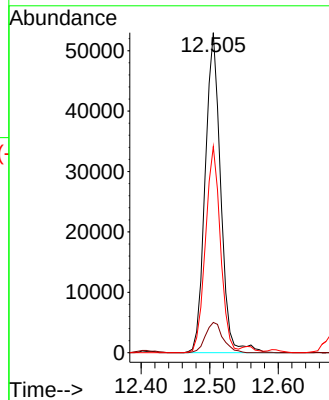
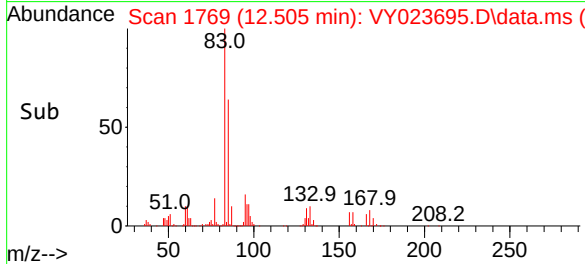
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



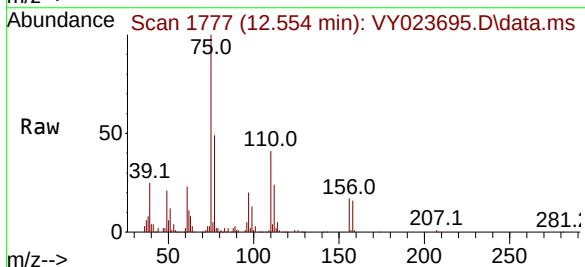
Tgt Ion: 83 Resp: 83292  
Ion Ratio Lower Upper  
83 100  
131 10.7 5.7 17.0  
85 62.4 31.9 95.7

Manual Integrations  
APPROVED

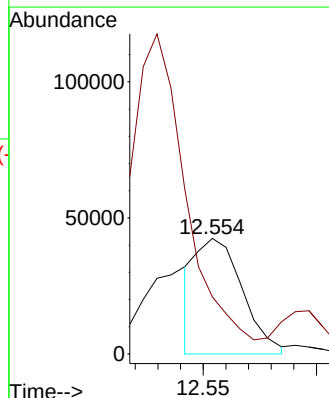
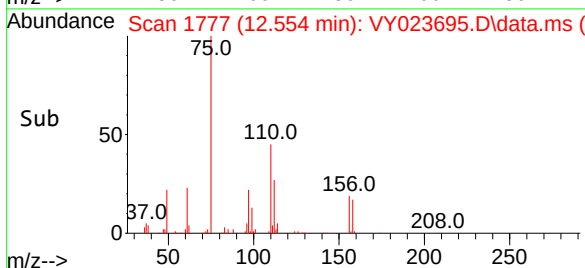
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

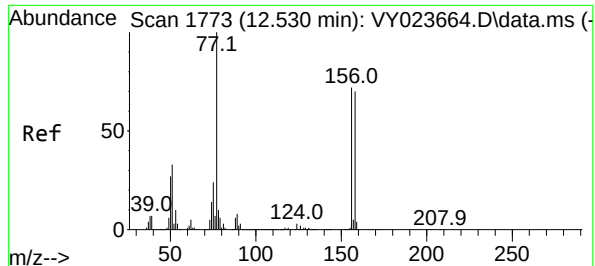


#76  
1,2,3-Trichloropropane  
Concen: 20.845 ug/l m  
RT: 12.554 min Scan# 1777  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



Tgt Ion: 75 Resp: 60991  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0





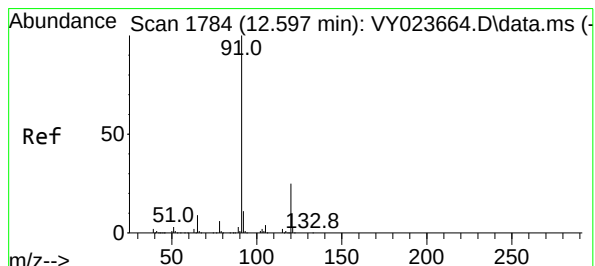
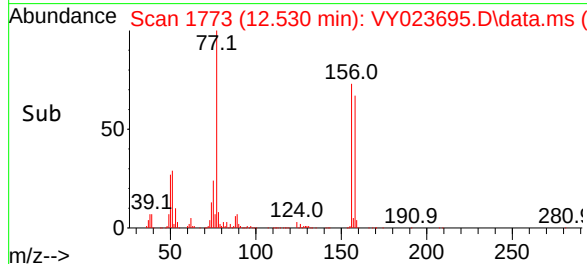
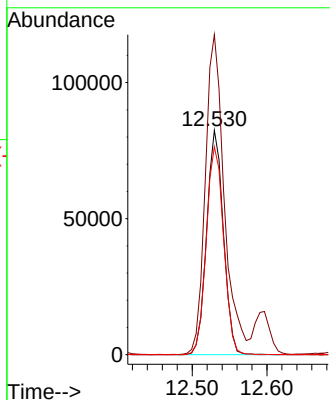
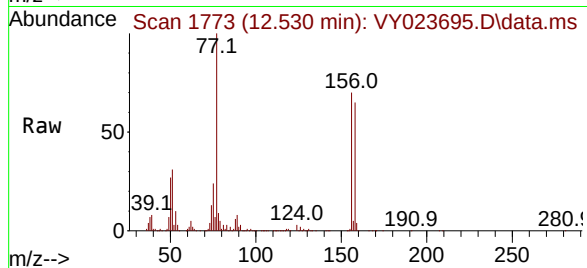
#77  
Bromobenzene  
Concen: 20.451 ug/l  
RT: 12.530 min Scan# 1773  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01

Tgt Ion:156 Resp: 12826  
Ion Ratio Lower Upper  
156 100  
77 160.7 77.9 233.7  
158 95.9 48.5 145.5

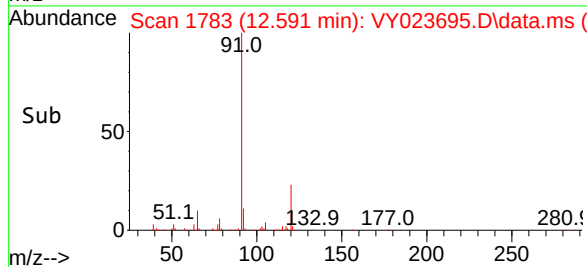
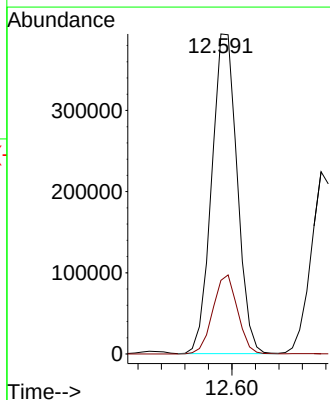
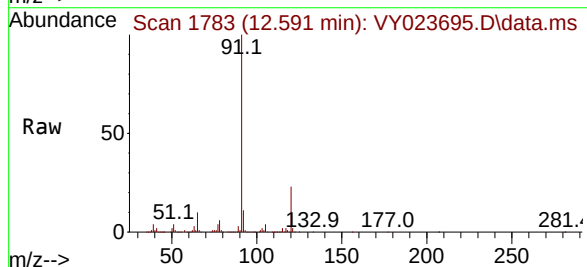
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

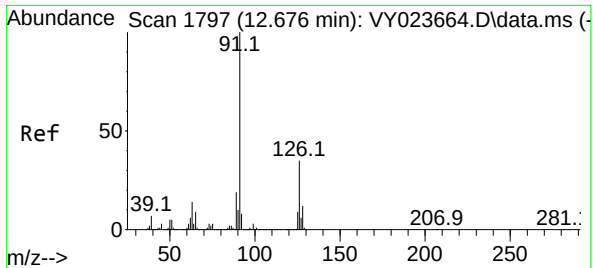


#78  
n-propylbenzene  
Concen: 20.851 ug/l  
RT: 12.591 min Scan# 1783  
Delta R.T. -0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion: 91 Resp: 593032  
Ion Ratio Lower Upper  
91 100  
120 23.9 12.0 36.1







#79

2-Chlorotoluene

Concen: 20.703 ug/l

RT: 12.676 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 91 Resp: 34168

Ion Ratio Lower Upper

91 100

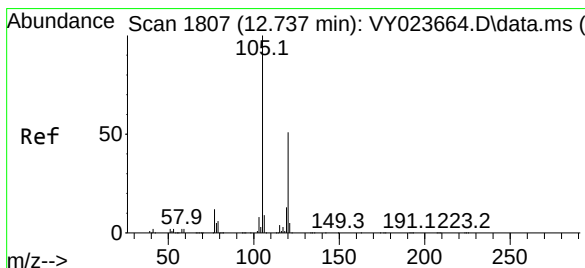
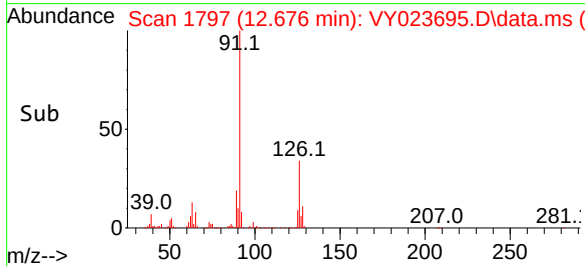
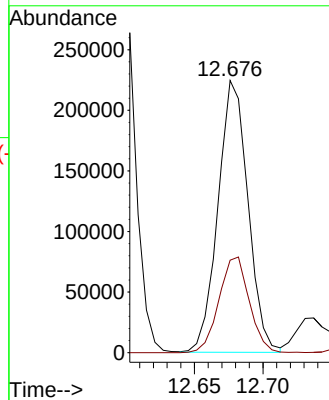
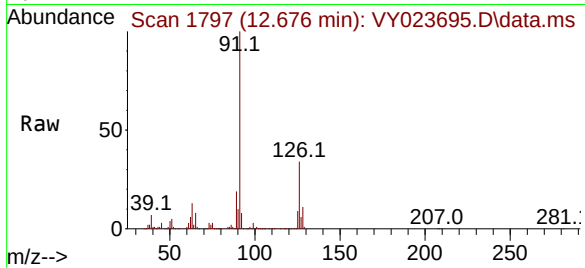
126 35.6 18.0 54.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.924 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY023695.D

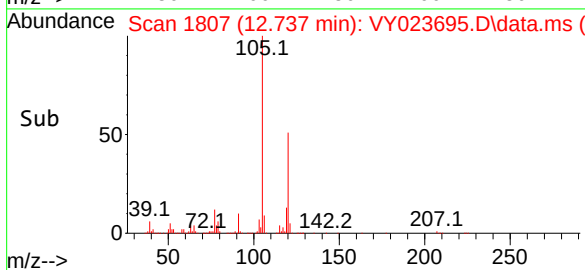
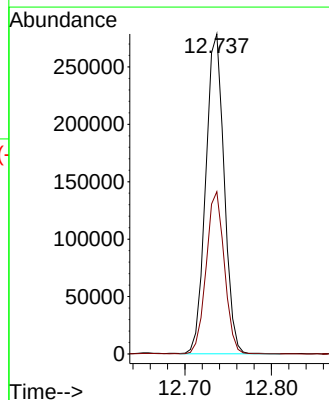
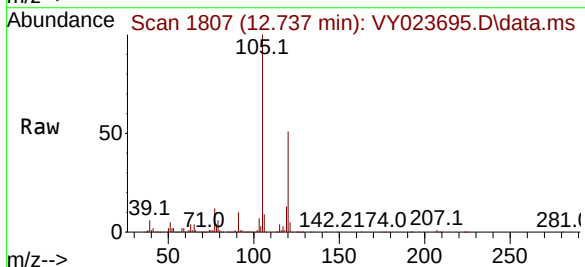
Acq: 06 Nov 2025 10:07

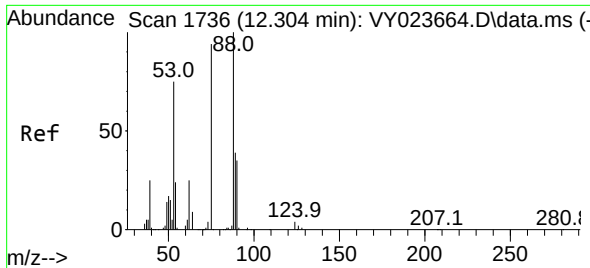
Tgt Ion:105 Resp: 411072

Ion Ratio Lower Upper

105 100

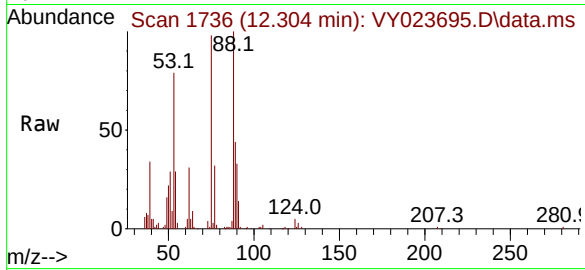
120 50.2 25.4 76.2





#81  
trans-1,4-Dichloro-2-butene  
Concen: 20.931 ug/l  
RT: 12.304 min Scan# 1736  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

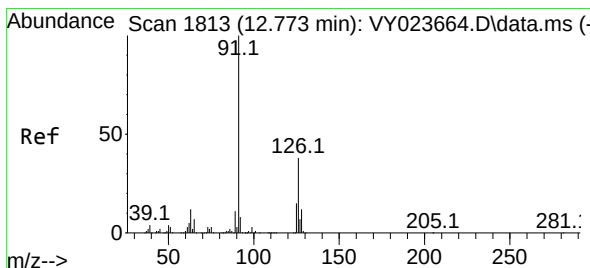
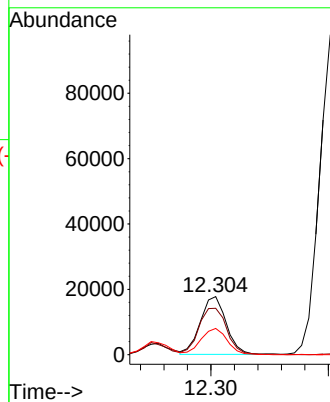
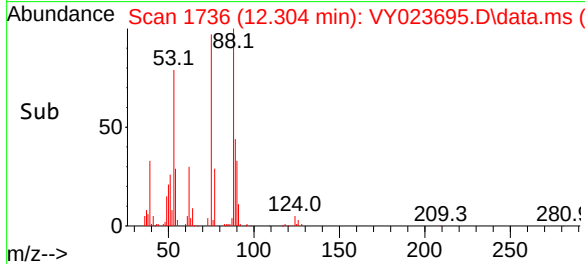
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion: 75 Resp: 27099  
Ion Ratio Lower Upper  
75 100  
53 87.5 69.6 104.4  
89 46.2 38.2 57.4

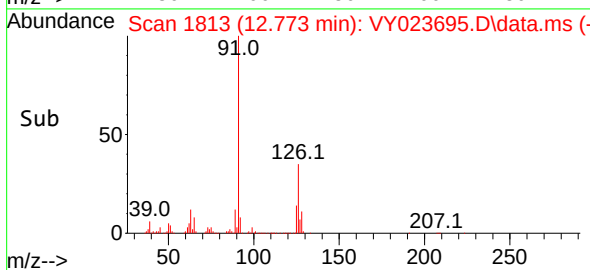
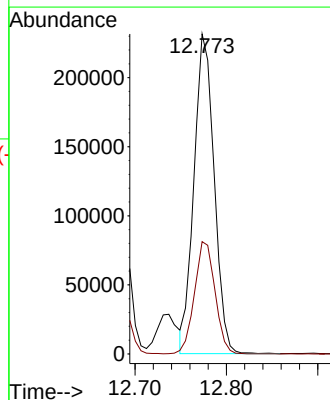
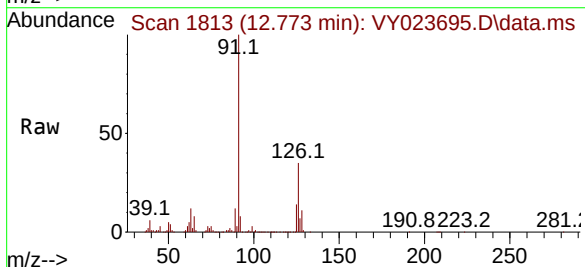
Manual Integrations  
APPROVED

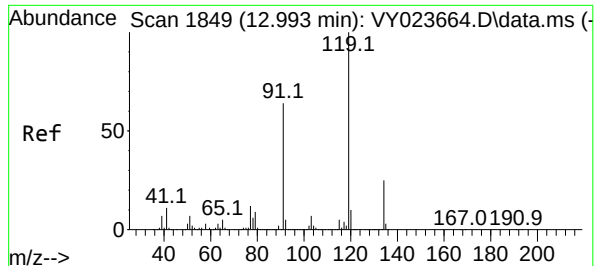
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025



#82  
4-Chlorotoluene  
Concen: 20.852 ug/l  
RT: 12.773 min Scan# 1813  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

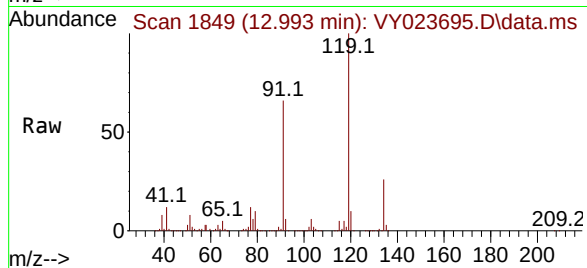
Tgt Ion: 91 Resp: 354923  
Ion Ratio Lower Upper  
91 100  
126 35.9 18.1 54.4





#83  
tert-Butylbenzene  
Concen: 19.882 ug/l  
RT: 12.993 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

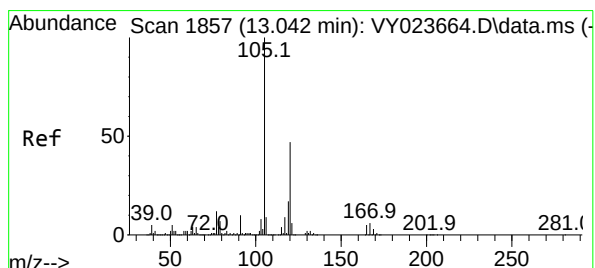
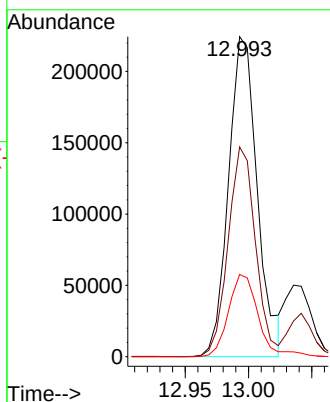
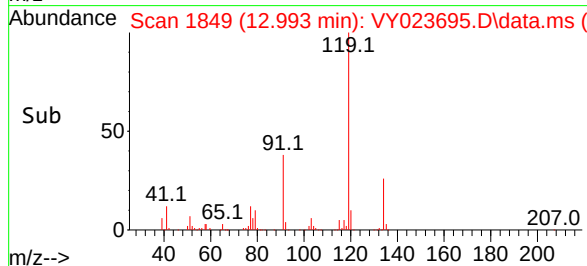
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



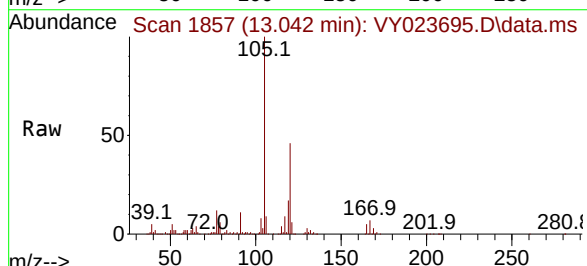
Tgt Ion:119 Resp: 355748  
Ion Ratio Lower Upper  
119 100  
91 62.3 30.7 92.1  
134 26.5 13.1 39.1

Manual Integrations  
APPROVED

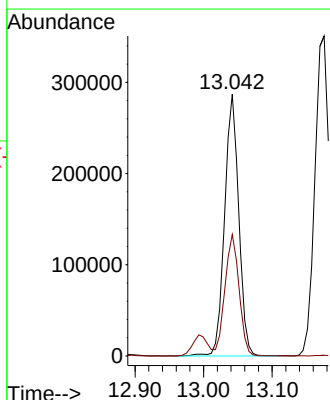
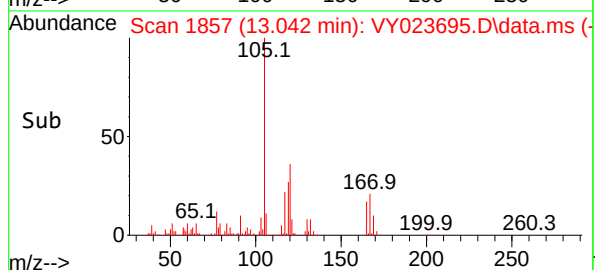
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

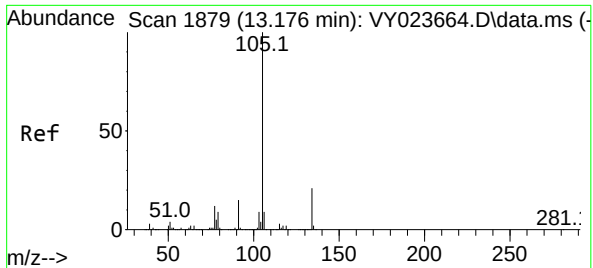


#84  
1,2,4-Trimethylbenzene  
Concen: 21.055 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



Tgt Ion:105 Resp: 409701  
Ion Ratio Lower Upper  
105 100  
120 46.6 23.2 69.6





#85

sec-Butylbenzene

Concen: 20.409 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBSD01

Tgt Ion:105 Resp: 526700

Ion Ratio Lower Upper

105 100

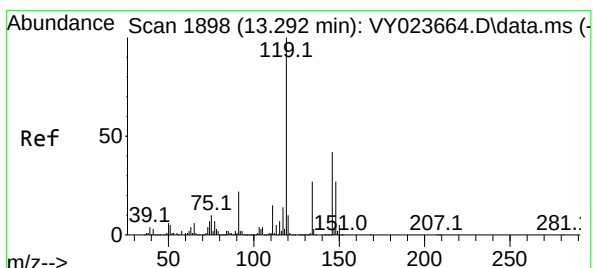
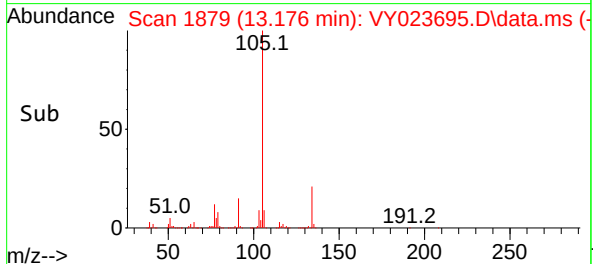
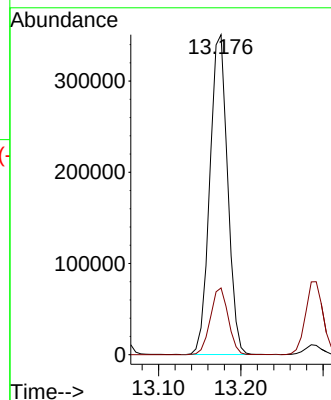
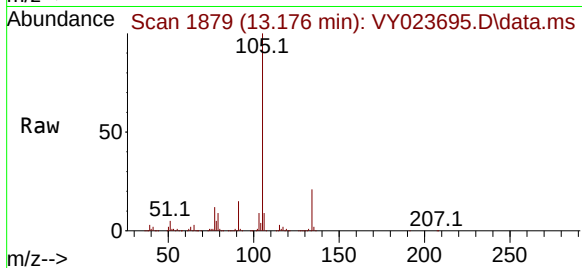
134 20.9 10.4 31.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#86

p-Isopropyltoluene

Concen: 20.424 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

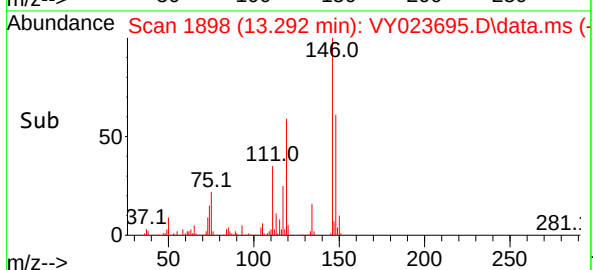
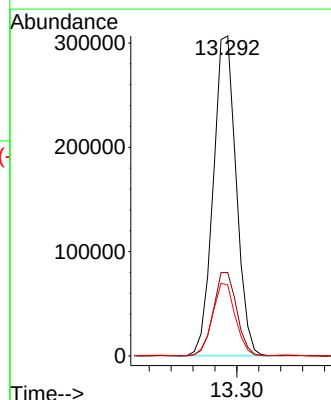
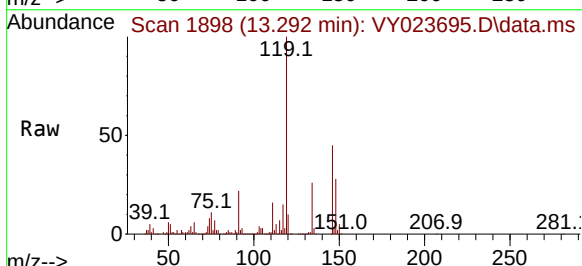
Tgt Ion:119 Resp: 446213

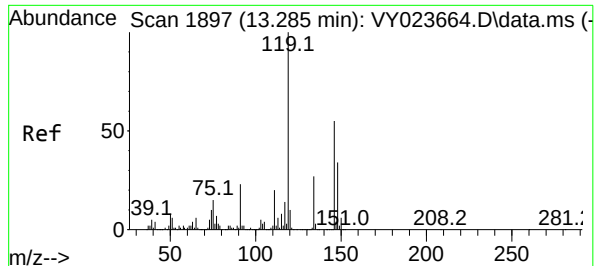
Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.2

91 22.6 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 20.504 ug/l

RT: 13.286 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023695.D

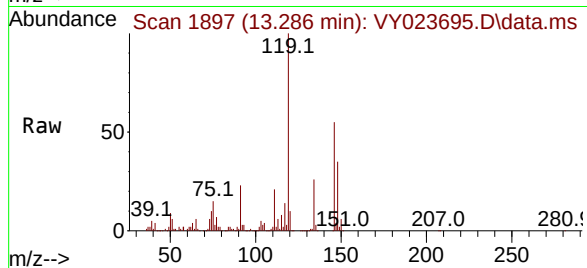
Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01



Tgt Ion:146 Resp: 253110

Ion Ratio Lower Upper

146 100

111 37.0 18.8 56.3

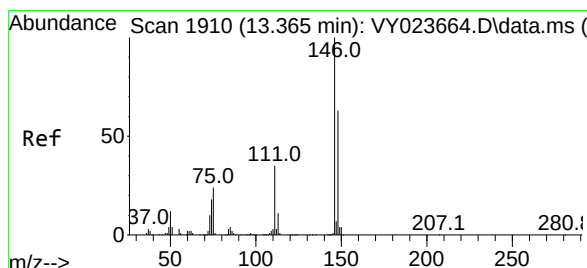
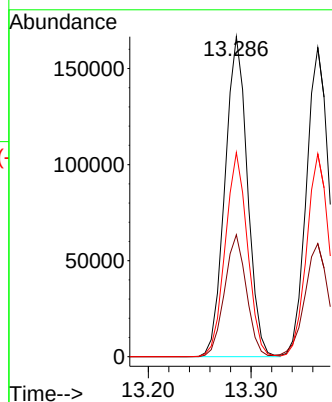
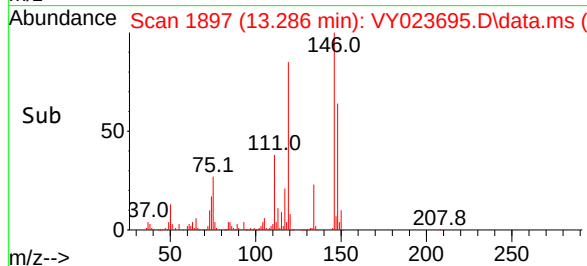
148 63.0 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#88

1,4-Dichlorobenzene

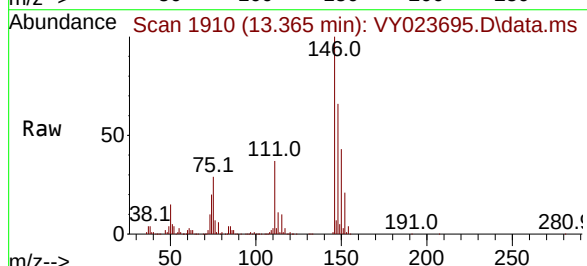
Concen: 20.388 ug/l

RT: 13.365 min Scan# 1910

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07



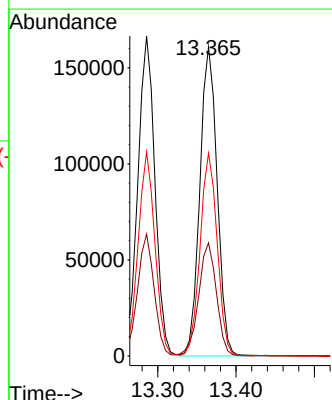
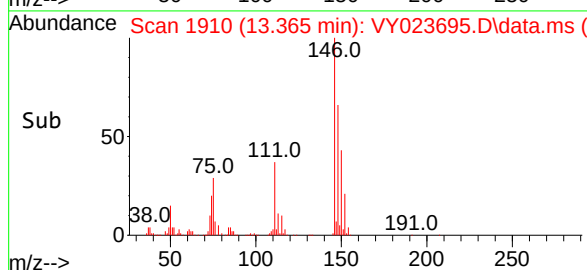
Tgt Ion:146 Resp: 247228

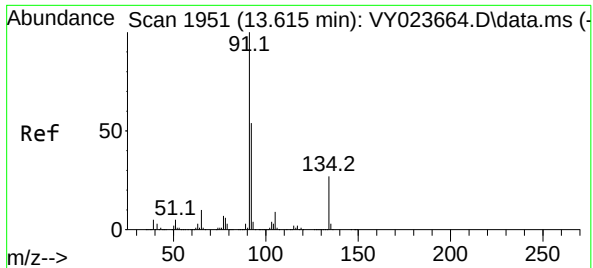
Ion Ratio Lower Upper

146 100

111 37.6 18.3 54.8

148 64.7 31.8 95.3





#89

n-Butylbenzene

Concen: 20.371 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion: 91 Resp: 387010

Ion Ratio Lower Upper

91 100

92 52.8 26.5 79.4

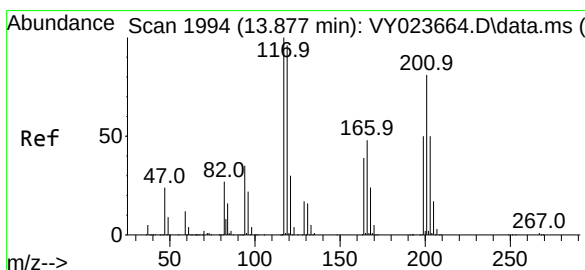
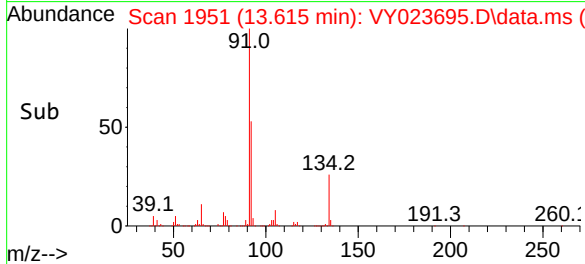
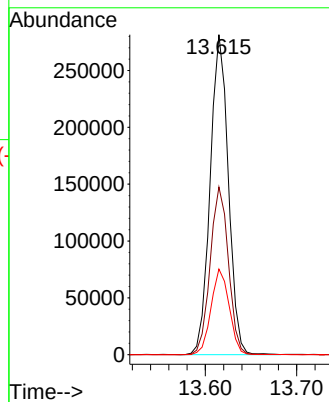
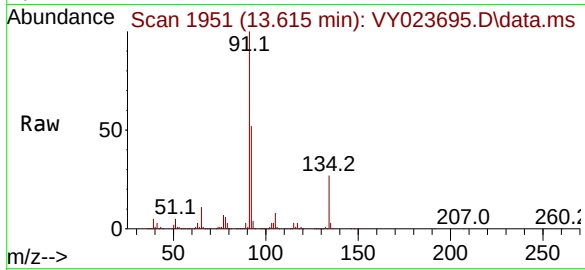
134 26.8 13.7 41.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#90

Hexachloroethane

Concen: 20.638 ug/l

RT: 13.877 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VY023695.D

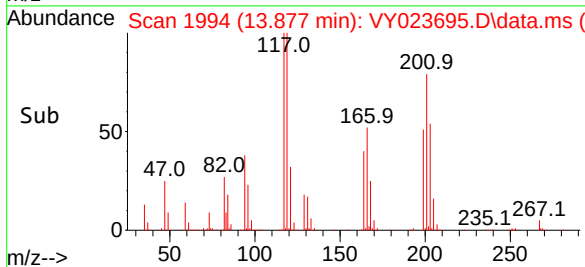
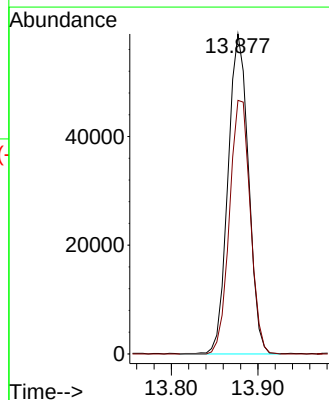
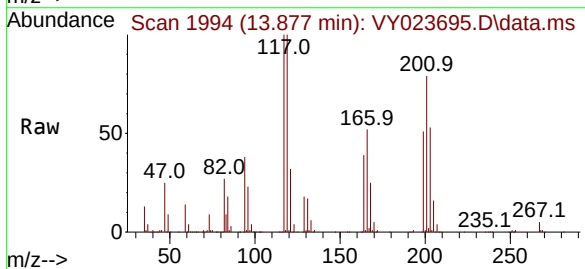
Acq: 06 Nov 2025 10:07

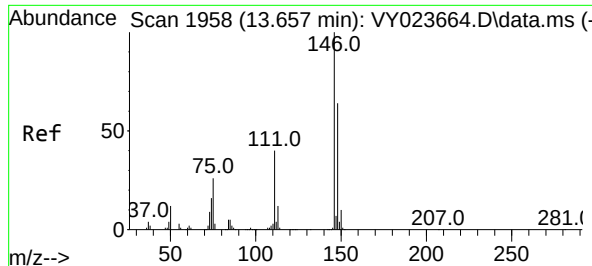
Tgt Ion:117 Resp: 96893

Ion Ratio Lower Upper

117 100

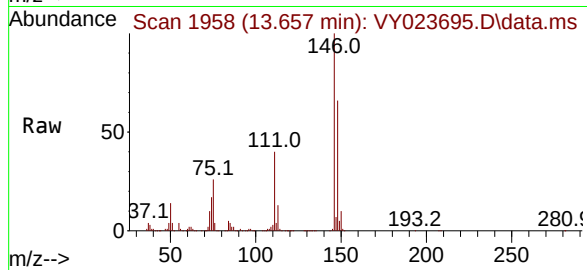
201 80.2 42.3 126.8





#91  
1,2-Dichlorobenzene  
Concen: 20.537 ug/l  
RT: 13.657 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

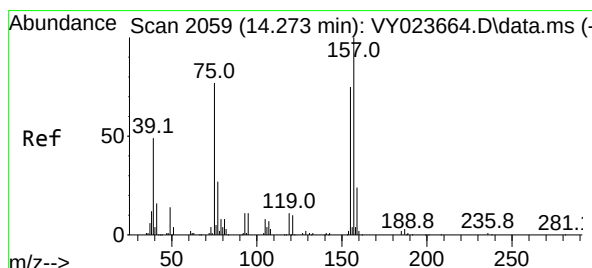
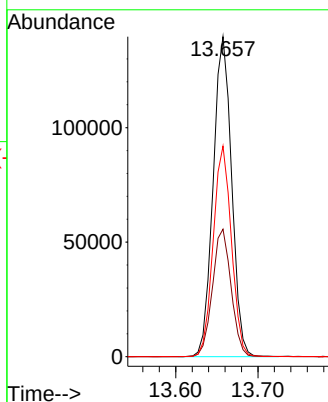
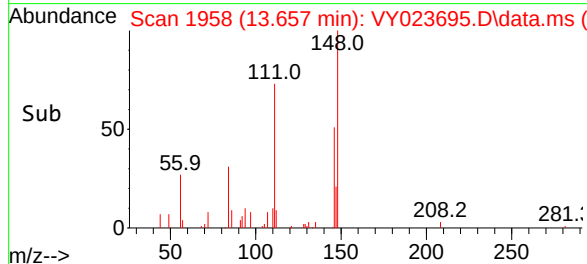
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



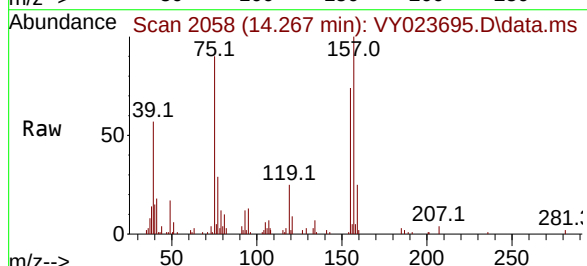
Tgt Ion:146 Resp: 21848  
Ion Ratio Lower Upper  
146 100  
111 40.3 19.5 58.5  
148 64.8 31.9 95.9

Manual Integrations  
APPROVED

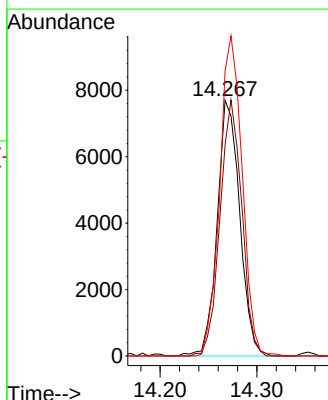
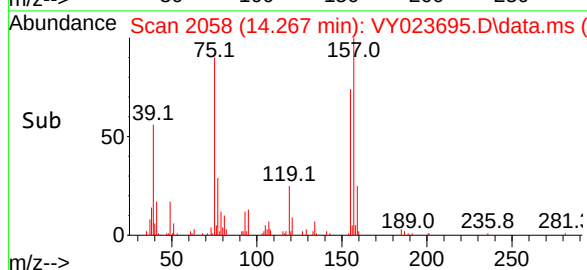
Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

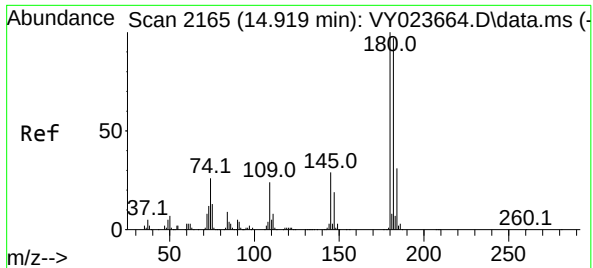


#92  
1,2-Dibromo-3-Chloropropane  
Concen: 20.846 ug/l  
RT: 14.267 min Scan# 2058  
Delta R.T. -0.006 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07



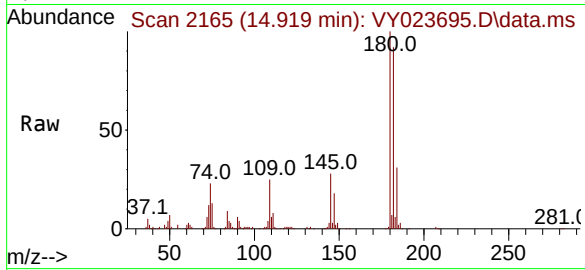
Tgt Ion: 75 Resp: 12395  
Ion Ratio Lower Upper  
75 100  
155 96.7 49.4 148.2  
157 125.0 63.2 189.8





#93  
1,2,4-Trichlorobenzene  
Concen: 20.385 ug/l  
RT: 14.919 min Scan# 2165  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

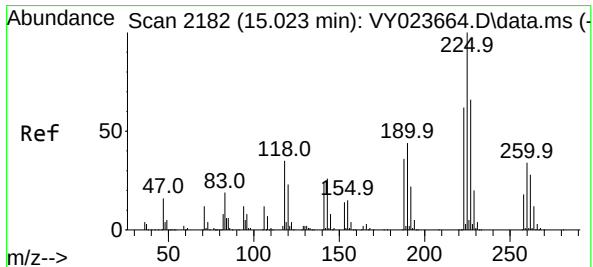
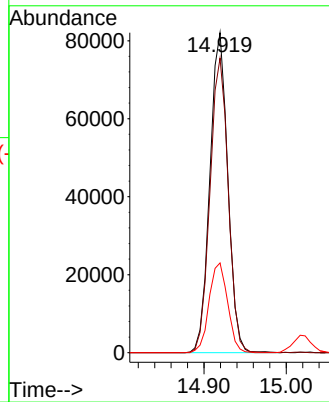
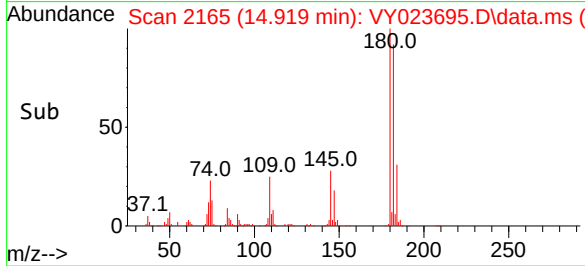
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY1106SBS01



Tgt Ion:180 Resp: 124045  
Ion Ratio Lower Upper  
180 100  
182 93.7 47.5 142.6  
145 29.0 14.4 43.4

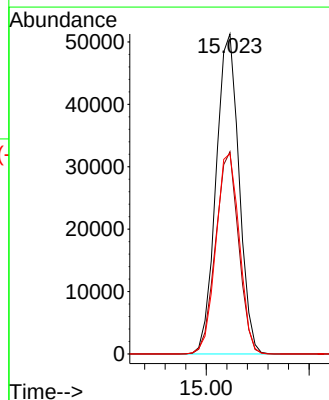
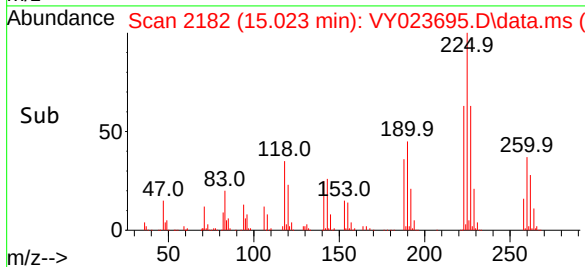
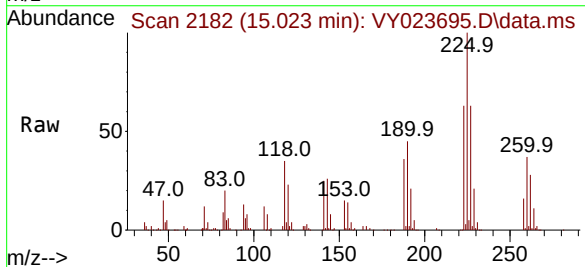
Manual Integrations  
APPROVED

Reviewed By :Amit Patel 11/07/2025  
Supervised By :Mahesh Dadoda 11/07/2025

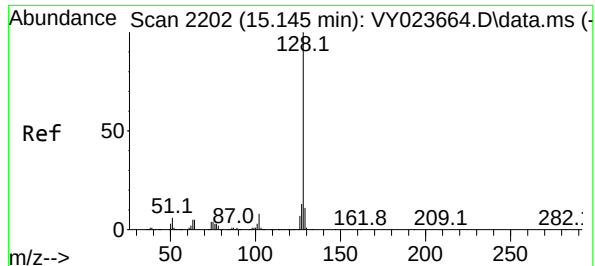


#94  
Hexachlorobutadiene  
Concen: 19.956 ug/l  
RT: 15.023 min Scan# 2182  
Delta R.T. 0.000 min  
Lab File: VY023695.D  
Acq: 06 Nov 2025 10:07

Tgt Ion:225 Resp: 79566  
Ion Ratio Lower Upper  
225 100  
223 63.1 30.8 92.3  
227 63.9 32.0 96.2







#95

Naphthalene

Concen: 20.493 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

Instrument :

MSVOA\_Y

ClientSampleId :

VY1106SBS01

Tgt Ion:128 Resp: 181092

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

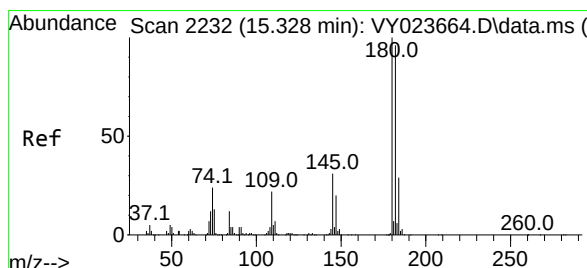
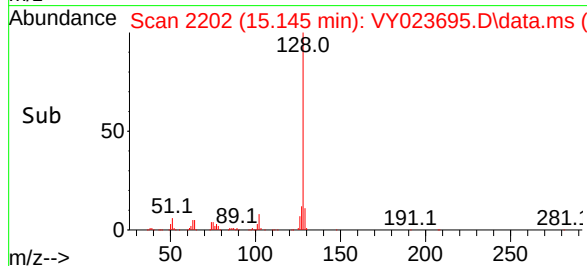
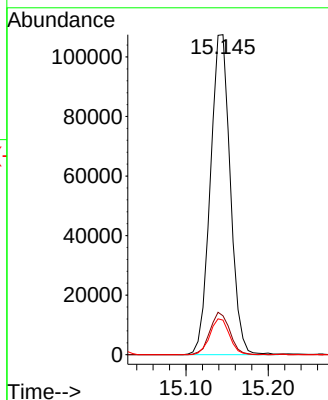
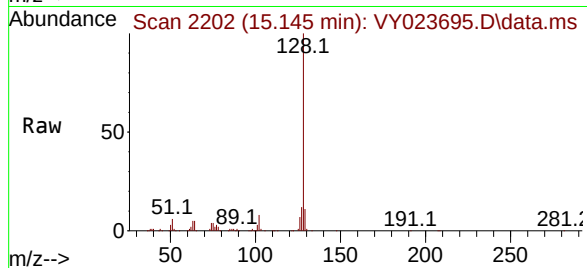
129 11.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/07/2025

Supervised By :Mahesh Dadoda 11/07/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.682 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY023695.D

Acq: 06 Nov 2025 10:07

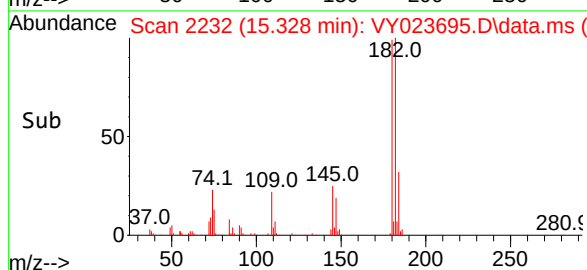
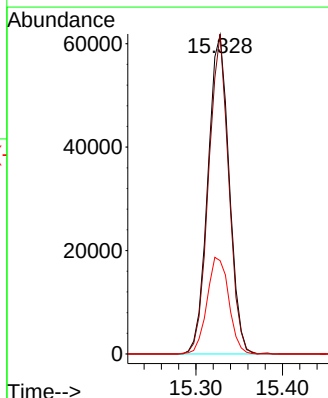
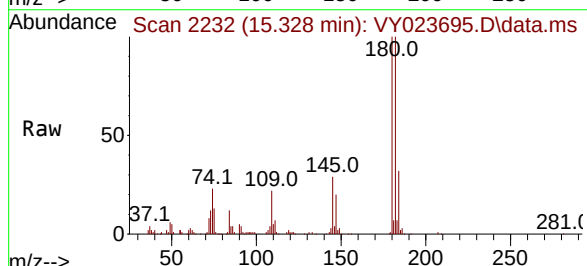
Tgt Ion:180 Resp: 105148

Ion Ratio Lower Upper

180 100

182 94.8 47.5 142.6

145 31.1 15.5 46.5



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VY110425 | Instrument | MSVOA_y |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICC005  | VY023661.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:39:41 PM | MMDadoda      | 11/5/2025 2:42:20 PM | Peak Integrated by Software |
| VSTDICC010  | VY023662.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:39:45 PM | MMDadoda      | 11/5/2025 2:42:23 PM | Peak Integrated by Software |
| VSTDICC010  | VY023662.D | Methacrylonitrile      | Amit      | 11/5/2025 2:39:45 PM | MMDadoda      | 11/5/2025 2:42:23 PM | Peak Integrated by Software |
| VSTDICC020  | VY023663.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:39:50 PM | MMDadoda      | 11/5/2025 2:42:26 PM | Peak Integrated by Software |
| VSTDICC020  | VY023663.D | Methacrylonitrile      | Amit      | 11/5/2025 2:39:50 PM | MMDadoda      | 11/5/2025 2:42:26 PM | Peak Integrated by Software |
| VSTDICCC050 | VY023664.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:39:54 PM | MMDadoda      | 11/5/2025 2:42:29 PM | Peak Integrated by Software |
| VSTDICC100  | VY023665.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:41:22 PM | MMDadoda      | 11/5/2025 2:42:32 PM | Peak Integrated by Software |
| VSTDICC150  | VY023666.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:39:59 PM | MMDadoda      | 11/5/2025 2:42:36 PM | Peak Integrated by Software |
| VSTDICV050  | VY023668.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:40:02 PM | MMDadoda      | 11/5/2025 2:42:40 PM | Peak Integrated by Software |
| VSTDCCC050  | VY023677.D | 1,2,3-Trichloropropane | Amit      | 11/5/2025 2:41:12 PM | MMDadoda      | 11/5/2025 2:42:58 PM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

VY110625

Instrument

MSVOA\_y

| Sample ID        | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC050       | VY023692.D | 1,2,3-Trichloropropane | Amit      | 11/7/2025 8:49:01 AM | MMDadoda      | 11/7/2025 1:48:15 PM | Peak Integrated by Software |
| VSTDCCC050       | VY023692.D | Methacrylonitrile      | Amit      | 11/7/2025 8:49:01 AM | MMDadoda      | 11/7/2025 1:48:15 PM | Peak Integrated by Software |
| VY1106SBS01      | VY023694.D | 1,2,3-Trichloropropane | Amit      | 11/7/2025 8:49:05 AM | MMDadoda      | 11/7/2025 1:48:22 PM | Peak Integrated by Software |
| VY1106SBSD0<br>1 | VY023695.D | 1,2,3-Trichloropropane | Amit      | 11/7/2025 8:49:09 AM | MMDadoda      | 11/7/2025 1:48:30 PM | Peak Integrated by Software |
| VSTDCCC050       | VY023702.D | 1,2,3-Trichloropropane | Amit      | 11/7/2025 8:49:16 AM | MMDadoda      | 11/7/2025 1:48:36 PM | Peak Integrated by Software |

Instrument ID: **MSVOA\_Y**

**Daily Analysis Runlog For Sequence/QC Batch ID # VY110425**

|                          |               |                                                       |                      |                      |              |
|--------------------------|---------------|-------------------------------------------------------|----------------------|----------------------|--------------|
| Review By                | Amit Patel    | Review On                                             | 11/5/2025 2:42:53 PM |                      |              |
| Supervise By             | Maresh Dadoda | Supervise On                                          | 11/6/2025 8:39:21 AM |                      |              |
| SubDirectory             | VY110425      | HP Acquire Method                                     | MSVOA_Y              | HP Processing Method | 82y110425s.m |
| STD. NAME                |               | STD REF.#                                             |                      |                      |              |
| Tune/Reschk              |               | VP136031                                              |                      |                      |              |
| Initial Calibration Stds |               | VP136032,VP136033,VP136034,VP136035,VP136036,VP136037 |                      |                      |              |
| CCC                      |               | VP136050,LOD VP136051,VP136052,LOQ VP136053           |                      |                      |              |
| Internal Standard/PEM    |               | VP133934                                              |                      |                      |              |
| ICV/I.BLK                |               | VP136038                                              |                      |                      |              |
| Surrogate Standard       |               |                                                       |                      |                      |              |
| MS/MSD Standard          |               |                                                       |                      |                      |              |
| LCS Standard             |               |                                                       |                      |                      |              |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VY023660.D     | 04 Nov 2025 08:11 | SY/MD    | Ok     |
| 2   | VSTDIC005    | VY023661.D     | 04 Nov 2025 09:19 | SY/MD    | Ok,M   |
| 3   | VSTDIC010    | VY023662.D     | 04 Nov 2025 09:42 | SY/MD    | Ok,M   |
| 4   | VSTDIC020    | VY023663.D     | 04 Nov 2025 10:19 | SY/MD    | Ok,M   |
| 5   | VSTDIC050    | VY023664.D     | 04 Nov 2025 10:42 | SY/MD    | Ok,M   |
| 6   | VSTDIC100    | VY023665.D     | 04 Nov 2025 11:05 | SY/MD    | Ok,M   |
| 7   | VSTDIC150    | VY023666.D     | 04 Nov 2025 11:27 | SY/MD    | Ok,M   |
| 8   | VIBLK        | VY023667.D     | 04 Nov 2025 11:51 | SY/MD    | Ok     |
| 9   | VSTDICV050   | VY023668.D     | 04 Nov 2025 12:14 | SY/MD    | Ok,M   |
| 10  | VY1104SBL01  | VY023669.D     | 04 Nov 2025 12:37 | SY/MD    | Ok     |
| 11  | VY1104SBS01  | VY023670.D     | 04 Nov 2025 13:14 | SY/MD    | Ok,M   |
| 12  | VY1104SBSD01 | VY023671.D     | 04 Nov 2025 13:37 | SY/MD    | Ok,M   |
| 13  | Q3530-01     | VY023672.D     | 04 Nov 2025 14:08 | SY/MD    | Ok,M   |
| 14  | Q3530-01     | VY023673.D     | 04 Nov 2025 14:31 | SY/MD    | Ok,M   |
| 15  | Q3530-02     | VY023674.D     | 04 Nov 2025 14:53 | SY/MD    | Ok,M   |
| 16  | Q3532-03     | VY023675.D     | 04 Nov 2025 15:16 | SY/MD    | Ok     |
| 17  | Q3532-07     | VY023676.D     | 04 Nov 2025 15:40 | SY/MD    | Ok     |
| 18  | VSTDCCC050   | VY023677.D     | 04 Nov 2025 16:26 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_Y**

**Daily Analysis Runlog For Sequence/QC Batch ID # VY110625**

|                                         |               |                   |                      |                      |              |
|-----------------------------------------|---------------|-------------------|----------------------|----------------------|--------------|
| Review By                               | Amit Patel    | Review On         | 11/7/2025 8:49:45 AM |                      |              |
| Supervise By                            | Mahesh Dadoda | Supervise On      | 11/7/2025 1:48:59 PM |                      |              |
| SubDirectory                            | VY110625      | HP Acquire Method | MSVOA_Y              | HP Processing Method | 82y110425s.m |
| STD. NAME                               |               | STD REF.#         |                      |                      |              |
| Tune/Reschk<br>Initial Calibration Stds |               | VP136068          |                      |                      |              |
| CCC                                     |               | VP136069,VP136070 |                      |                      |              |
| Internal Standard/PEM                   |               | VP133934          |                      |                      |              |
| ICV/I.BLK                               |               |                   |                      |                      |              |
| Surrogate Standard                      |               |                   |                      |                      |              |
| MS/MSD Standard                         |               |                   |                      |                      |              |
| LCS Standard                            |               |                   |                      |                      |              |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VY023691.D     | 06 Nov 2025 08:09 | SY/MD    | Ok       |
| 2   | VSTDCCC050   | VY023692.D     | 06 Nov 2025 08:42 | SY/MD    | Ok,M     |
| 3   | VY1106SBL01  | VY023693.D     | 06 Nov 2025 09:13 | SY/MD    | Ok       |
| 4   | VY1106SBS01  | VY023694.D     | 06 Nov 2025 09:44 | SY/MD    | Ok,M     |
| 5   | VY1106SBSD01 | VY023695.D     | 06 Nov 2025 10:07 | SY/MD    | Ok,M     |
| 6   | Q3483-23     | VY023696.D     | 06 Nov 2025 10:44 | SY/MD    | Dilution |
| 7   | VIBLK        | VY023697.D     | 06 Nov 2025 11:08 | SY/MD    | Ok       |
| 8   | Q3483-23DL   | VY023698.D     | 06 Nov 2025 11:40 | SY/MD    | Ok       |
| 9   | Q3562-01     | VY023699.D     | 06 Nov 2025 14:05 | SY/MD    | Ok       |
| 10  | Q3564-01     | VY023700.D     | 06 Nov 2025 14:54 | SY/MD    | Ok       |
| 11  | VIBLK        | VY023701.D     | 06 Nov 2025 15:17 | SY/MD    | Ok       |
| 12  | VSTDCCC050   | VY023702.D     | 06 Nov 2025 15:40 | SY/MD    | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_Y

**Daily Analysis Runlog For Sequence/QC Batch ID # VY110425**

|              |               |                   |                                           |
|--------------|---------------|-------------------|-------------------------------------------|
| Review By    | Amit Patel    | Review On         | 11/5/2025 2:42:53 PM                      |
| Supervise By | Mahesh Dadoda | Supervise On      | 11/6/2025 8:39:21 AM                      |
| SubDirectory | VY110425      | HP Acquire Method | MSVOA_Y HP Processing Method 82y110425s.m |

| STD. NAME                | STD REF.#                                             |
|--------------------------|-------------------------------------------------------|
| Tune/Reschk              | VP136031                                              |
| Initial Calibration Stds | VP136032,VP136033,VP136034,VP136035,VP136036,VP136037 |
| CCC                      | VP136050,LOD VP136051,VP136052,LOQ VP136053           |
| Internal Standard/PEM    | VP133934                                              |
| ICV/I.BLK                | VP136038                                              |
| Surrogate Standard       |                                                       |
| MS/MSD Standard          |                                                       |
| LCS Standard             |                                                       |

| Sr# | SampleID     | ClientID            | Data File Name | Date-Time         | Comment                        | Operator | Status |
|-----|--------------|---------------------|----------------|-------------------|--------------------------------|----------|--------|
| 1   | BFB          | BFB                 | VY023660.D     | 04 Nov 2025 08:11 |                                | SY/MD    | Ok     |
| 2   | VSTDIC005    | VSTDIC005           | VY023661.D     | 04 Nov 2025 09:19 |                                | SY/MD    | Ok,M   |
| 3   | VSTDIC010    | VSTDIC010           | VY023662.D     | 04 Nov 2025 09:42 |                                | SY/MD    | Ok,M   |
| 4   | VSTDIC020    | VSTDIC020           | VY023663.D     | 04 Nov 2025 10:19 |                                | SY/MD    | Ok,M   |
| 5   | VSTDIC050    | VSTDIC050           | VY023664.D     | 04 Nov 2025 10:42 | Comp. #95 on Linear Regression | SY/MD    | Ok,M   |
| 6   | VSTDIC100    | VSTDIC100           | VY023665.D     | 04 Nov 2025 11:05 |                                | SY/MD    | Ok,M   |
| 7   | VSTDIC150    | VSTDIC150           | VY023666.D     | 04 Nov 2025 11:27 |                                | SY/MD    | Ok,M   |
| 8   | VIBLK        | VIBLK               | VY023667.D     | 04 Nov 2025 11:51 |                                | SY/MD    | Ok     |
| 9   | VSTDICV050   | ICVVY110425         | VY023668.D     | 04 Nov 2025 12:14 |                                | SY/MD    | Ok,M   |
| 10  | VY1104SBL01  | VY1104SBL01         | VY023669.D     | 04 Nov 2025 12:37 |                                | SY/MD    | Ok     |
| 11  | VY1104SBS01  | VY1104SBS01         | VY023670.D     | 04 Nov 2025 13:14 |                                | SY/MD    | Ok,M   |
| 12  | VY1104SBSD01 | VY1104SBSD01        | VY023671.D     | 04 Nov 2025 13:37 |                                | SY/MD    | Ok,M   |
| 13  | Q3530-01     | LOD-MDL-SOIL-01-QT  | VY023672.D     | 04 Nov 2025 14:08 |                                | SY/MD    | Ok,M   |
| 14  | Q3530-01     | LOD-MDL-SOIL-01-QT  | VY023673.D     | 04 Nov 2025 14:31 |                                | SY/MD    | Ok,M   |
| 15  | Q3530-02     | LOQ-SOIL-02-QT4-202 | VY023674.D     | 04 Nov 2025 14:53 |                                | SY/MD    | Ok,M   |
| 16  | Q3532-03     | TP-1-VOC            | VY023675.D     | 04 Nov 2025 15:16 | vial-A                         | SY/MD    | Ok     |
| 17  | Q3532-07     | TP-2-VOC            | VY023676.D     | 04 Nov 2025 15:40 | vial-A                         | SY/MD    | Ok     |
| 18  | VSTDCCC050   | VSTDCCC050EC        | VY023677.D     | 04 Nov 2025 16:26 |                                | SY/MD    | Ok,M   |

Instrument ID: MSVOA\_Y

**Daily Analysis Runlog For Sequence/QC Batch ID # VY110425**

| Review By                | Amit Patel                                            | Review On         | 11/5/2025 2:42:53 PM |                      |              |
|--------------------------|-------------------------------------------------------|-------------------|----------------------|----------------------|--------------|
| Supervise By             | Mahesh Dadoda                                         | Supervise On      | 11/6/2025 8:39:21 AM |                      |              |
| SubDirectory             | VY110425                                              | HP Acquire Method | MSVOA_Y              | HP Processing Method | 82y110425s.m |
| STD. NAME                | STD REF.#                                             |                   |                      |                      |              |
| Tune/Reschk              | VP136031                                              |                   |                      |                      |              |
| Initial Calibration Stds | VP136032,VP136033,VP136034,VP136035,VP136036,VP136037 |                   |                      |                      |              |
| CCC                      | VP136050,LOD VP136051,VP136052,LOQ VP136053           |                   |                      |                      |              |
| Internal Standard/PEM    | VP133934                                              |                   |                      |                      |              |
| ICV/I.BLK                | VP136038                                              |                   |                      |                      |              |
| Surrogate Standard       |                                                       |                   |                      |                      |              |
| MS/MSD Standard          |                                                       |                   |                      |                      |              |
| LCS Standard             |                                                       |                   |                      |                      |              |

M : Manual Integration

Instrument ID: MSVOA\_Y

**Daily Analysis Runlog For Sequence/QC Batch ID # VY110625**

|              |               |                   |                                           |
|--------------|---------------|-------------------|-------------------------------------------|
| Review By    | Amit Patel    | Review On         | 11/7/2025 8:49:45 AM                      |
| Supervise By | Maresh Dadoda | Supervise On      | 11/7/2025 1:48:59 PM                      |
| SubDirectory | VY110625      | HP Acquire Method | MSVOA_Y HP Processing Method 82y110425s.m |

| STD. NAME                                                                                          | STD REF.#                     |
|----------------------------------------------------------------------------------------------------|-------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP136068                      |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP136069,VP136070<br>VP133934 |

| Sr# | SampleID     | ClientID           | Data File Name | Date-Time         | Comment             | Operator | Status   |
|-----|--------------|--------------------|----------------|-------------------|---------------------|----------|----------|
| 1   | BFB          | BFB                | VY023691.D     | 06 Nov 2025 08:09 |                     | SY/MD    | Ok       |
| 2   | VSTDCCC050   | VSTDCCC050         | VY023692.D     | 06 Nov 2025 08:42 |                     | SY/MD    | Ok,M     |
| 3   | VY1106SBL01  | VY1106SBL01        | VY023693.D     | 06 Nov 2025 09:13 |                     | SY/MD    | Ok       |
| 4   | VY1106SBS01  | VY1106SBS01        | VY023694.D     | 06 Nov 2025 09:44 |                     | SY/MD    | Ok,M     |
| 5   | VY1106SBSD01 | VY1106SBSD01       | VY023695.D     | 06 Nov 2025 10:07 |                     | SY/MD    | Ok,M     |
| 6   | Q3483-23     | HW1025-PT-VOA-SOIL | VY023696.D     | 06 Nov 2025 10:44 | NJ Soil PT ,Need 4X | SY/MD    | Dilution |
| 7   | VIBLK        | VIBLK              | VY023697.D     | 06 Nov 2025 11:08 |                     | SY/MD    | Ok       |
| 8   | Q3483-23DL   | HW1025-PT-VOA-SOIL | VY023698.D     | 06 Nov 2025 11:40 |                     | SY/MD    | Ok       |
| 9   | Q3562-01     | EO-03-110625       | VY023699.D     | 06 Nov 2025 14:05 |                     | SY/MD    | Ok       |
| 10  | Q3564-01     | OR-03-11062025     | VY023700.D     | 06 Nov 2025 14:54 |                     | SY/MD    | Ok       |
| 11  | VIBLK        | VIBLK              | VY023701.D     | 06 Nov 2025 15:17 |                     | SY/MD    | Ok       |
| 12  | VSTDCCC050   | VSTDCCC050EC       | VY023702.D     | 06 Nov 2025 15:40 |                     | SY/MD    | Ok,M     |

M : Manual Integration



# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:15  
In Date: 10/29/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:20  
Out Date: 10/30/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137700

| Lab ID   | Client SampleID         | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments        |
|----------|-------------------------|--------|----------------|--------------|-------------------------|---------------------------|---------|-----------------|
| Q3368-13 | OUTSIDE-DUMPSTER        | 1      | 1.12           | 10.63        | 11.75                   | 8.28                      | 67.4    |                 |
| Q3368-14 | PRESS-SLUDGE            | 2      | 1.18           | 10.30        | 11.48                   | 7.89                      | 65.1    |                 |
| Q3482-01 | WC-1                    | 37     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-02 | WC-2                    | 38     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-03 | WC-3                    | 39     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-04 | WC-4                    | 40     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-05 | WC-5                    | 41     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-06 | WC-6                    | 42     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3482-07 | WC-7                    | 43     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3483-01 | HW1025-PT-AN-SOIL       | 3      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-02 | HW1025-PT-CORR-SOIL     | 4      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-03 | HW1025-PT-CN-SOIL       | 5      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-04 | HW1025-PT-CN-SOIL       | 6      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-05 | HW1025-PT-FP-SOIL       | 7      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-06 | HW1025-PT-CR6-SOIL      | 8      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-07 | HW1025-PT-NUT-SOIL      | 9      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-08 | HW1025-PT-NUT-SOIL      | 10     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-09 | HW1025-PT-OGF-SOIL      | 11     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-10 | HW1025-PT-MET-SOIL      | 12     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-11 | HW1025-PT-BNA-SOIL      | 13     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-12 | HW1025-PT-TRIAZINE-SOIL | 14     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-13 | HW1025-PT-PAH-SOIL      | 15     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-14 | HW1025-PT-DIES-SOIL     | 16     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-15 | HW1025-PT-GAS-SOIL      | 17     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-16 | HW1025-PT-NJEPH-SOIL    | 18     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-17 | HW1025-PT-HERB-SOIL     | 19     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-18 | HW1025-PT-PCB-SOIL      | 20     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |
| Q3483-19 | HW1025-PT-PCBO-SOIL     | 21     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   |                 |



PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:15  
In Date: 10/29/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:20  
Out Date: 10/30/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137700

| Lab ID   | Client SampleID      | Dish # | Dish Wt (g) (A) | Sample Wt (g) | Dish + Sample Wt (g) (B) | Dish+Dry Sample Wt (g) (C) | % Solid | Comments |
|----------|----------------------|--------|-----------------|---------------|--------------------------|----------------------------|---------|----------|
| Q3483-20 | HW1025-PT-PEST-SOIL  | 22     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |          |
| Q3483-21 | HW1025-PT-CHLOR-SOIL | 23     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |          |
| Q3483-22 | HW1025-PT-TXP-SOIL   | 24     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |          |
| Q3483-23 | HW1025-PT-VOA-SOIL   | 25     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |          |
| Q3483-25 | HW1025-PT-NO2-SOIL   | 26     | 1.00            | 1.00          | 2.00                     | 2.00                       | 100.0   |          |
| Q3485-01 | TR-04-102924         | 27     | 1.15            | 10.30         | 11.45                    | 10.84                      | 94.1    |          |
| Q3485-02 | TR-04-102924-E2      | 28     | 1.19            | 10.30         | 11.49                    | 10.77                      | 93.0    |          |
| Q3486-01 | TP3                  | 29     | 1.17            | 10.45         | 11.62                    | 11.07                      | 94.7    |          |
| Q3486-02 | TP3-E2               | 30     | 1.18            | 10.40         | 11.58                    | 11.11                      | 95.5    |          |
| Q3486-03 | TP4                  | 31     | 1.19            | 10.23         | 11.42                    | 9.93                       | 85.4    |          |
| Q3486-04 | TP4-E2               | 32     | 1.17            | 10.52         | 11.69                    | 10.09                      | 84.8    |          |
| Q3486-05 | TP5                  | 33     | 1.17            | 10.65         | 11.82                    | 10.02                      | 83.1    |          |
| Q3486-06 | TP5-E2               | 34     | 1.17            | 10.15         | 11.32                    | 9.39                       | 81.0    |          |
| Q3486-07 | TP6                  | 35     | 1.13            | 10.25         | 11.38                    | 10.16                      | 88.1    |          |
| Q3486-08 | TP6-E2               | 36     | 1.16            | 10.48         | 11.64                    | 10.32                      | 87.4    |          |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

137100

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

| Sample   | Customer Sample         | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-------------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3368-13 | OUTSIDE-DUMPSTER        | Solid  | Percent Solids | Cool 4 deg C | ARAM01   | D41                         | 10/16/2025   | Chemtech -SO |
| Q3368-14 | PRESS-SLUDGE            | Solid  | Percent Solids | Cool 4 deg C | ARAM01   | D41                         | 10/16/2025   | Chemtech -SO |
| Q3482-01 | WC-1                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-02 | WC-2                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-03 | WC-3                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-04 | WC-4                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-05 | WC-5                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-06 | WC-6                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3482-07 | WC-7                    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/24/2025   | Chemtech -SO |
| Q3483-01 | HW1025-PT-AN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-02 | HW1025-PT-CORR-SOIL     | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-03 | HW1025-PT-CN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-04 | HW1025-PT-CN-SOIL       | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-05 | HW1025-PT-FP-SOIL       | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-06 | HW1025-PT-CR6-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-07 | HW1025-PT-NUT-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-08 | HW1025-PT-NUT-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-09 | HW1025-PT-OGR-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-10 | HW1025-PT-MET-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-11 | HW1025-PT-BNA-SOIL      | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-12 | HW1025-PT-TRIAZINE-SOIL | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |

Date/Time 10/29/25 15:00

Raw Sample Received by: JWC

Raw Sample Relinquished by: ACSM

Date/Time 10/29/25 17:30

Raw Sample Received by: ACSM

Raw Sample Relinquished by: JWC

# WORKLIST(Hardcopy Internal Chain)

W137700

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

| Sample   | Customer Sample      | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|----------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3483-13 | HW1025-PT-PAH-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-14 | HW1025-PT-DIES-SOIL  | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-15 | HW1025-PT-GAS-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-16 | HW1025-PT-NJEPH-SOIL | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-17 | HW1025-PT-HERB-SOIL  | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-18 | HW1025-PT-PCB-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-19 | HW1025-PT-PCBO-SOIL  | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-20 | HW1025-PT-PEST-SOIL  | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-21 | HW1025-PT-CHLOR-SOIL | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-22 | HW1025-PT-TXP-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-23 | HW1025-PT-VOA-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3483-25 | HW1025-PT-NO2-SOIL   | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3485-01 | TR-04-102924         | Solid  | Percent Solids | Cool 4 deg C | PSEG05   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3485-02 | TR-04-102924-E2      | Solid  | Percent Solids | Cool 4 deg C | PSEG05   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-01 | TP3                  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-02 | TP3-E2               | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-03 | TP4                  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-04 | TP4-E2               | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-05 | TP5                  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-06 | TP5-E2               | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3486-07 | TP6                  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |

Date/Time 10/29/25 15:00  
Raw Sample Received by: SB W/C  
Raw Sample Relinquished by: U(SM)

Date/Time 10/29/25 17:30  
Raw Sample Received by: U(SM)  
Raw Sample Relinquished by: SB W/C

# WORKLIST(Hardcopy Internal Chain)

UP 137700

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample<br>Storage<br>Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------------|--------------|--------------|
| Q3486-08 | TP6-E2          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                               | 10/29/2025   | Chemtech -SO |

Date/Time

10/29/25 151.00

Raw Sample Received by:

EB WWC

Raw Sample Relinquished by:

CP (SM)

Date/Time

10/29/25 171.30

Raw Sample Received by:

CP (SM)

Raw Sample Relinquished by:

EB aalc

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:15  
In Date: 10/30/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:20  
Out Date: 10/31/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137714

| Lab ID   | Client SampleID    | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments        |
|----------|--------------------|--------|----------------|--------------|-------------------------|---------------------------|---------|-----------------|
| Q3483-24 | HW1025-PT-SOL-SOIL | 1      | 1.16           | 10.70        | 11.86                   | 9.24                      | 75.5    |                 |
| Q3487-01 | KZZ294Z-A          | 2      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-02 | KZZ294Z-B          | 3      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-03 | KZZ256R-A          | 4      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-04 | KZZ256R-B          | 5      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-05 | JEH623H-A          | 6      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-06 | JEH623H-B          | 7      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-07 | M3-A               | 8      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3487-08 | M3-B               | 9      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3488-01 | MOO-25-0294-0298   | 10     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | Concrete sample |
| Q3488-02 | MOO-25-0299        | 11     | 1.15           | 10.33        | 11.48                   | 10.88                     | 94.2    |                 |
| Q3488-04 | MOO-25-0302-0310   | 12     | 1.18           | 10.45        | 11.63                   | 10.08                     | 85.2    |                 |
| Q3488-05 | MOO-25-0302-0310   | 13     | 1.15           | 10.46        | 11.61                   | 10.7                      | 91.3    |                 |
| Q3488-06 | MOO-25-0311-0313   | 46     | 1.15           | 10.37        | 11.52                   | 10.64                     | 91.5    |                 |
| Q3489-01 | 245F72-A           | 14     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-02 | 245F72-B           | 15     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-03 | L54-A              | 16     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-04 | L54-B              | 17     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-05 | L55-A              | 18     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-06 | L55-A              | 19     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-07 | L56-A              | 20     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-08 | L56-B              | 21     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-09 | L57-A              | 22     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-10 | L57-B              | 23     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-11 | L58-A              | 24     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-12 | L58-2              | 25     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-13 | L59-A              | 26     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |
| Q3489-14 | L59-B              | 27     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC            |

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:15  
In Date: 10/30/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104  
Time OUT: 08:20  
Out Date: 10/31/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID-OVEN

QC:LB137714

| Lab ID   | Client SampleID    | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments    |
|----------|--------------------|--------|----------------|--------------|-------------------------|---------------------------|---------|-------------|
| Q3489-15 | L60-A              | 28     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-16 | L60-B              | 29     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-17 | L61-A              | 30     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-18 | L61-B              | 31     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-19 | L62-A              | 32     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-20 | L62-B              | 33     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-21 | L63-A              | 34     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-22 | L63-B              | 35     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-23 | L64-A              | 36     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-24 | L64-B              | 37     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-25 | L65-A              | 38     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-26 | L65-B              | 39     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-27 | STC21-A            | 40     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-28 | STC21-B            | 41     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-29 | STF24-A            | 42     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3489-30 | STF24-B            | 43     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | PILC        |
| Q3490-01 | LAW-25-0151        | 44     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | oily-debris |
| Q3491-01 | SOIL-CUTTINGS-COMP | 45     | 1.18           | 10.80        | 11.98                   | 9.13                      | 73.6    |             |
| Q3495-01 | SB-1025-1          | 47     | 1.19           | 10.24        | 11.43                   | 8.99                      | 76.2    |             |
| Q3495-02 | SB-1025-2          | 48     | 1.14           | 10.43        | 11.57                   | 8.97                      | 75.1    |             |
| Q3496-01 | DRILL-CUTTINGS     | 49     | 1.19           | 10.61        | 11.8                    | 10.33                     | 86.1    |             |
| Q3496-02 | DRILL-CUTTINGS-E2  | 50     | 1.13           | 10.49        | 11.62                   | 10.11                     | 85.6    |             |
| Q3497-01 | OK-01-103025       | 51     | 1.13           | 10.93        | 12.06                   | 10.37                     | 84.5    |             |
| Q3497-02 | OK-01-103025-E2    | 52     | 1.19           | 10.59        | 11.78                   | 10.25                     | 85.6    |             |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

UB 138714

WorkList Name : %1-103025

WorkList ID : 192793

Department : Wet-Chemistry

Date : 10-30-2025 10:50:32

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3483-24 | HW1025-PT-SOL-SOIL | Solid  | Percent Solids | Cool 4 deg C | ALLI03   | QA Of                       | 10/27/2025   | Chemtech -SO |
| Q3487-01 | KZZ294Z-A          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-02 | KZZ294Z-B          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-03 | KZZ256R-A          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-04 | KZZ256R-B          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-05 | JEH623H-A          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-06 | JEH623H-B          | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-07 | M3-A               | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3487-08 | M3-B               | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D31                         | 10/29/2025   | Chemtech -SO |
| Q3488-01 | MOO-25-0294-0298   | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3488-02 | MOO-25-0299        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3488-04 | MOO-25-0302-0310   | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3488-05 | MOO-25-0302-0310   | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3488-06 | MOO-25-0311-0313   | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-01 | 245F72-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-02 | 245F72-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-03 | L54-A              | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-04 | L54-B              | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-05 | L55-A              | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-06 | L55-A              | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-07 | L56-A              | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |

Date/Time 10/30/25 15:00  
 Raw Sample Received by: JO (WC)  
 Raw Sample Relinquished by: RJ (L54-L56)

Date/Time 10/30/25 17:30  
 Raw Sample Received by: RJ (L54-L56)  
 Raw Sample Relinquished by: JO (WC)



# WORKLIST(Hardcopy Internal Chain)

WB 137714

WorkList Name : %1-103025

WorkList ID : 192793

Department : Wet-Chemistry

Date : 10-30-2025 10:50:32

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3489-08 | L56-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-09 | L57-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-10 | L57-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-11 | L58-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-12 | L58-2           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-13 | L59-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-14 | L59-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-15 | L60-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-16 | L60-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-17 | L61-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-18 | L61-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-19 | L62-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-20 | L62-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-21 | L63-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-22 | L63-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-23 | L64-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-24 | L64-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-25 | L65-A           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-26 | L65-B           | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-27 | STC21-A         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-28 | STC21-B         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |

Date/Time 10/30/25 15:00  
 Raw Sample Received by: JO WCI  
 Raw Sample Relinquished by: RJ C (EIT-1466)

Date/Time 10/30/25 17:30  
 Raw Sample Received by: RJ C (EIT-1466)  
 Raw Sample Relinquished by: JO WCI

# WORKLIST(Hardcopy Internal Chain)

UB 13FF14

WorkList Name : %1-103025

WorkList ID : 192793

Department : Wet-Chemistry

Date : 10-30-2025 10:50:32

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q3489-29 | STF24-A            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3489-30 | STF24-B            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3490-01 | LAW-25-0151        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3491-01 | SOIL-CUTTINGS-COMP | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/29/2025   | Chemtech -SO |
| Q3495-01 | SB-1025-1          | Solid  | Percent Solids | Cool 4 deg C | REMI02   | D51                         | 10/27/2025   | Chemtech -SO |
| Q3495-02 | SB-1025-2          | Solid  | Percent Solids | Cool 4 deg C | REMI02   | D51                         | 10/27/2025   | Chemtech -SO |
| Q3496-01 | DRILL-CUTTINGS     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/30/2025   | Chemtech -SO |
| Q3496-02 | DRILL-CUTTINGS-E2  | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | D41                         | 10/30/2025   | Chemtech -SO |
| Q3497-01 | OK-01-103025       | Solid  | Percent Solids | Cool 4 deg C | PSEG05   | D41                         | 10/30/2025   | Chemtech -SO |
| Q3497-02 | OK-01-103025-E2    | Solid  | Percent Solids | Cool 4 deg C | PSEG05   | D41                         | 10/30/2025   | Chemtech -SO |

Date/Time 10/30/25 15:00  
 Raw Sample Received by: SB WLC  
 Raw Sample Relinquished by: RJ (EIT-106)

Date/Time 10/30/25 17:30  
 Raw Sample Received by: RJ (EIT-106)  
 Raw Sample Relinquished by: SB WLC

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3483

**Test :** VOCMS Group1

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VY110625,

**Standard ID :**

VP133934,VP134147,VP134149,VP134150,VP134934,VP134957,VP135834,VP135835,VP136027,VP136028,VP136068,VP136069,VP136070,

**Chemical ID :**

V13391,V14290,V14511,V14512,V14533,V14534,V14625,V14636,V14637,V14638,V14639,V14673,V14697,V14698,V14701,V14735,V14738,V14813,V14816,V14844,V14906,V14921,V14928,V14929,V14931,V14955,V14956,V15073,V15074,V15075,W3112,

## VOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                   | <u>NO.</u>               | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 1917             | 8260 Internal standard 50 ppm | <a href="#">VP133934</a> | 05/16/2025       | 11/12/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                               |                          |                  |                        |                     |                |                  | 05/21/2025           |

**FROM** 0.10000ml of V14290 + 49.90000ml of V14921 = 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> |
|------------------|---------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 252              | 8260 Working STD (BCM)-First source, 100PPM | <a href="#">VP134147</a> | 06/06/2025       | 12/06/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                             |                          |                  |                        |                     |                |                  | 06/10/2025           |

**FROM** 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 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>            |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 1810               | 8260 Working<br>Std(2-CVE)-800ppm                                                                                                           | <a href="#">VP134149</a> | 06/06/2025       | 12/06/2025             | Semsettin<br>Yesilyurt | None           | None             | Mahesh Dadoda<br><br>06/10/2025 |
| <b><u>FROM</u></b> | 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final<br>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>            |
|---------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 1811                                                                                        | 8260 Working<br>Std(2-CVE)-500ppm | <a href="#">VP134150</a> | 06/06/2025       | 12/06/2025             | Semsettin<br>Yesilyurt | None           | None             | Mahesh Dadoda<br><br>06/10/2025 |
| <b><u>FROM</u></b> 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 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> |
|------------------|------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 249              | 8260 Surrogate, 100PPM | <a href="#">VP134934</a> | 07/29/2025       | 01/29/2026             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                        |                          |                  |                        |                     |                |                  | 08/06/2025           |

**FROM** 0.10000ml of V14906 + 24.90000ml 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> |
|------------------|-------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 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

## 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="#">VP135834</a> | 10/17/2025       | 11/16/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                   |                          |                  |                        |                     |                |                  | 10/17/2025           |

**FROM** 1.00000ml of V15073 + 1.50000ml of V15074 + 1.50000ml of V15075 + 21.00000ml of V14928 = 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> |
|------------------|---------------------------------------------------|--------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 56               | 8260 Working STD (Acrolein) -first source, 500PPM | <a href="#">VP135835</a> | 10/17/2025       | 11/16/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
|                  |                                                   |                          |                  |                        |                     |                |                  | 10/17/2025           |

**FROM** 7.50000ml of V14928 + 12.50000ml of VP135834 = Final Quantity: 20.000 ml

[illegible]

| <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>            |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|------------------|------------------------|------------------------|----------------|------------------|---------------------------------|
| 244                                                                                        | 8260 Calibration Working STD<br>Mix-First source, 100PPM | <a href="#">VP136028</a> | 11/04/2025       | 12/15/2025             | Semsettin<br>Yesilyurt | None           | None             | Mahesh Dadoda<br><br>11/04/2025 |
| <b><u>FROM</u></b> 5.62500ml of V14931 + 9.37500ml of VP136027 = Final Quantity: 15.000 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> |
|------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 732              | BFB TUNE CHECK - SOIL | <a href="#">VP136068</a> | 11/06/2025       | 11/07/2025             | Amit Patel         | None           | None             | Maresh Dadoda        |
|                  |                       |                          |                  |                        |                    |                |                  | 11/07/2025           |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 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> |
|------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 773              | 50 PPB CCC, 8260-SOIL | <a href="#">VP136069</a> | 11/06/2025       | 11/07/2025             | Amit Patel         | None           | None             | Maresh Dadoda        |
|                  |                       |                          |                  |                        |                    |                |                  | 11/07/2025           |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135835  
+ 0.00250ml of VP136028 + 0.00500ml of VP133934 = Final Quantity: 5.000 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>            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 773                                                                                                                                                                                                                 | 50 PPB CCC, 8260-SOIL | <a href="#">VP136070</a> | 11/06/2025       | 11/07/2025             | Amit Patel         | None           | None             | Mahesh Dadoda<br><br>11/07/2025 |
| <b><u>FROM</u></b> 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135835<br>+ 0.00250ml of VP136028 + 0.00500ml of VP133934 = Final Quantity: 5.000 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   | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 12/12/2025      | 12/12/2024 / SAM        | 04/15/2024 / SAM            | V14290         |

| Supplier                 | ItemCode / ItemName                            | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 04/30/2026      | 10/31/2025 / sam        | 09/17/2024 / SAM            | V14511         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 09/17/2024 / SAM            | V14512         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 09/18/2024 / SAM            | V14533         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 09/18/2024 / SAM            | V14534         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/29/2026      | 07/29/2025 / SAM        | 11/26/2024 / SAM            | V14625         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14636         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14637         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14638         |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025      | 06/06/2025 / SAM        | 12/06/2024 / SAM            | V14639         |

| Supplier | ItemCode / ItemName                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025      | 06/06/2025 / SAM        | 12/09/2024 / SAM            | V14673         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                        | Lot #     | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 04/30/2026      | 10/31/2025 / sam        | 12/17/2024 / SAM            | V14697         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 12/17/2024 / SAM            | V14698         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 12/17/2024 / SAM            | V14701         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 12/17/2024 / SAM            | V14735         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 12/17/2024 / SAM            | V14738         |

| 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 | 04/30/2026      | 10/31/2025 / sam        | 01/08/2025 / SAM            | V14813         |

LOTS

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                               | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE | A0220471 | 04/30/2026      | 10/31/2025 / sam        | 01/08/2025 / SAM            | V14816         |

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 | 03/22/2026      | 09/22/2025 / sam        | 01/21/2025 / SAM            | V14844         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0223904 | 07/29/2026      | 07/29/2025 / SAM        | 03/24/2025 / SAM            | V14906         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 11/12/2025      | 05/12/2025 / SAM        | 05/09/2025 / SAM            | V14921         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 03/22/2026      | 09/22/2025 / sam        | 05/09/2025 / SAM            | V14928         |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 12/06/2025      | 06/06/2025 / SAM        | 05/09/2025 / SAM            | V14929         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 04/27/2026      | 10/27/2025 / sam        | 05/09/2025 / SAM            | V14931         |

| Supplier | ItemCode / ItemName                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0222076 | 04/30/2026      | 10/31/2025 / sam        | 05/19/2025 / SAM            | V14955         |

| Supplier | ItemCode / ItemName                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0222076 | 04/30/2026      | 10/31/2025 / sam        | 05/19/2025 / SAM            | V14956         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 101625 | 11/16/2025      | 10/17/2025 / sam        | 10/17/2025 / sam            | V15073         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 101625 | 11/16/2025      | 10/17/2025 / sam        | 10/17/2025 / sam            | V15074         |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 101625 | 11/16/2025      | 10/17/2025 / sam        | 10/17/2025 / sam            | V15075         |

### **CHEMICAL RECEIPT LOG BOOK**

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
|------------------|---------------------|---------------------|-----------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 /<br>lwona      | 07/03/2024 /<br>lwona          | W3112             |



Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis



Material No.: 9077-02  
Batch No.: 23I0762004  
Manufactured Date: 2023-08-11  
Expiration Date: 2026-08-10  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.5 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.2      |
| Titration Base (μeq/g)                                  | ≤ 0.10        | 0.01     |
| Water (by KF, coulometric)                              | ≤ 0.08 %      | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL  | Conforms      | Conforms |

For Laboratory, Research, or Manufacturing Use  
Performance Tested for Use in EPA Methods  
500 Series for Drinking Water  
600 Series for Wastewater  
846 for Solid Waste

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein  
Sr. Manager, Quality Assurance



Ree 03117/24

## CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |

| Compound                            | (KMe)<br>Part Number | Lot<br>Number | Dir.<br>Factor | Initial<br>Vol. (mL) | Initial<br>Conc. (µg/mL) | Nominal<br>Conc. (µg/mL) | Purity<br>(%) | Purity<br>Uncertainty | Uncertainty<br>Pipette (mL) | 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. 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)               | 06126PX       | 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               | (0472)               | 00427ET       | NA             | NA                   | NA                       | 2000                     | 99            | 0.2                   | NA                          | 0.20207             | 0.20221             | 2001.4                 | 8.2                                      | 128-98-7                                                  | 1 ppm (3mg/m3/8H) (skin)     | or-rat 120mg/kg   |
| 11. Methyl acrylate                 | (1075)               | SHBK0679      | NA             | NA                   | NA                       | 2000                     | 99.9          | 0.2                   | NA                          | 0.20025             | 0.20040             | 2001.5                 | 8.1                                      | 96-33-3                                                   | 10 ppm (35mg/m3/8H) (skin)   | or-rat 277mg/kg   |
| 12. Methyl methacrylate             | (0404)               | MKGW6137V     | NA             | NA                   | NA                       | 2000                     | 99.9          | 0.2                   | NA                          | 0.20025             | 0.20041             | 2001.6                 | 8.1                                      | 80-62-6                                                   | 100 ppm (410mg/m3/8H)        | or-rat 7872mg/kg  |
| 13. Nitrobenzene                    | (0228)               | 01213TV       | NA             | NA                   | NA                       | 2000                     | 99            | 0.2                   | NA                          | 0.20207             | 0.20220             | 2001.3                 | 8.2                                      | 98-95-3                                                   | 1 ppm (5mg/m3/8H) (skin)     | or-rat 780mg/kg   |
| 14. 2-Nitropropane                  | (0461)               | HG02JX        | 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 435g/kg    |
| 17. Bromodichloromethane            | 35171                | 101623        | 0.05           | 5.00                 | 40001.7                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 1999.6                 | 22.9                                     | 75-27-4                                                   | NA                           | or-rat 915mg/kg   |
| 18. Dibromochloromethane            | 35171                | 101623        | 0.05           | 5.00                 | 40002.1                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 1999.6                 | 23.0                                     | 124-48-1                                                  | 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                          | N/A               |
| 20. trans-1,2-Dichloroethene        | 35171                | 101623        | 0.05           | 5.00                 | 40003.1                  | 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              | 32251                | 102023        | 0.10           | 10.00                | 20001.6                  | 2000                     | NA            | NA                    | 0.042                       | NA                  | NA                  | 1999.7                 | 20.4                                     | 75-35-4                                                   | 1 ppm (4mg/m3/8H)            | or-rat 200mg/kg   |
| 23. Bromoform                       | 95321                | 020724        | 0.10           | 10.00                | 20003.2                  | 2000                     | NA            | NA                    | 0.042                       | NA                  | NA                  | 1999.8                 | 20.5                                     | 75-25-2                                                   | 0.5 ppm (5mg/m3) (skin)      | or-rat 930mg/kg   |
| 24. Carbon tetrachloride            | 95321                | 020724        | 0.10           | 10.00                | 20003.4                  | 2000                     | NA            | NA                    | 0.042                       | NA                  | NA                  | 1999.8                 | 20.4                                     | 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                          | N/A               |
| 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                 | 40016.5                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2000.3                 | 22.9                                     | 96-12-8                                                   | 0.001 ppm                    | or-rat 170mg/kg   |
| 32. 1,2-Dibromoethane               | 35161                | 112322        | 0.05           | 5.00                 | 40024.8                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2000.7                 | 22.9                                     | 108-93-4                                                  | 20 ppm (8H)                  | or-rat 108mg/kg   |
| 33. 1,2-Dichloroethane              | 35161                | 112322        | 0.05           | 5.00                 | 40018.0                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2000.4                 | 22.9                                     | 107-06-2                                                  | 50 ppm (8H)                  | or-rat 670mg/kg   |
| 34. 1,2-Dichloropropane             | 35161                | 112322        | 0.05           | 5.00                 | 40051.0                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2002.0                 | 22.9                                     | 78-87-5                                                   | 75 ppm (350mg/m3/8H)         | or-rat 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                                     | 10061-01-5                                                | N/A                          | N/A               |
| 38. trans-1,3-Dichloropropene       | 35161                | 112322        | 0.05           | 5.00                 | 40017.6                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2000.4                 | 23.0                                     | 10061-02-6                                                | N/A                          | N/A               |
| 39. Hexachloro-1,3-butadiene        | 35161                | 112322        | 0.05           | 5.00                 | 40021.9                  | 2000                     | NA            | NA                    | 0.017                       | NA                  | NA                  | 2000.6                 | 29.7                                     | 87-68-3                                                   | 0.02 ppm (0.24mg/m3/8H)      | 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                                     | 96-18-4                                                   | 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                  | 1999.8                 | 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                 | 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                                     | 108-98-3                                                  | 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                                     | 108-38-3                                                  | 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-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                                     | 108-46-7                                                  | 75 ppm (450mg/m3/8H)         | or-rat 500mg/kg   |

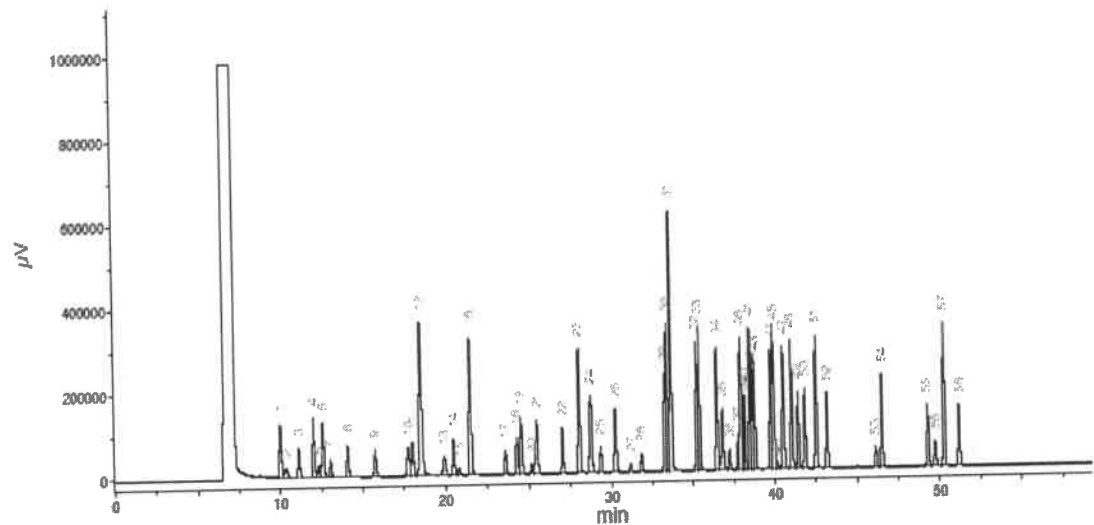


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.  
Created: Sat, Feb 17, 2024 at 8:56:46 AM.  
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".  
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren  
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness  
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,  
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.  
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),  
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.  
FID Signal = Edaq Channel 1  
Standard injection = 0.5µL, Range=3



| Peak # | Name                                           | FID RT (min.) |
|--------|------------------------------------------------|---------------|
| 1      | Ether                                          | 9.97          |
| 2      | 1,1,2-Trichloro-1,2,2-trifluoroethane          | 10.53         |
| 3      | 1,1-Dichloroethane                             | 11.10         |
| 4      | Acetonitrile                                   | 12.60         |
| 5      | Iodomethane                                    | 12.91         |
| 6      | Allyl chloride                                 | 12.96         |
| 7      | Carbon disulfide/Methylene chloride            | 13.04         |
| 8      | trans-1,2-Dichloroethene                       | 14.07         |
| 9      | 1,1-Dichloroethane                             | 15.74         |
| 10     | 2,2-Dichloropropane                            | 17.74         |
| 11     | cis-1,2-Dichloroethene                         | 18.00         |
| 12     | Methoxyvinylbenzene/Methyl acrylate/Chloroform | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane                | 18.91         |
| 14     | 1,1-Dichloropropane                            | 20.46         |
| 15     | Carbon tetrachloride                           | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                     | 21.48         |
| 17     | Trichloroethene                                | 23.88         |
| 18     | 1,2-Dichloropropane                            | 24.52         |
| 19     | Methyl methacrylate                            | 25.13         |
| 20     | Bromochloropropane                             | 25.46         |
| 21     | Dibromomethane/2-Pentene                       | 27.07         |
| 22     | cis-1,2-Dichloroethene                         | 28.03         |
| 23     | Toluene                                        | 28.73         |
| 24     | Ethyl methacrylate/Trans-1,2-Dichloroethene    | 29.34         |
| 25     | 1,1,2-Trichloroethane                          | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane          | 31.16         |
| 27     | Dibromochloromethane                           | 32.84         |
| 28     | 1,2-Dibromomethane                             | 33.26         |
| 29     | Chlorobenzene                                  | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane         | 33.85         |
| 31     | m-Xylene/p-Xylene                              | 35.33         |
| 32     | o-Xylene                                       | 35.70         |
| 33     | Styrene                                        | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                     | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                      | 36.80         |
| 36     | 1,1,2-Trichloropropane                         | 37.23         |
| 37     | n-Propylbenzene                                | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                    | 37.92         |
| 39     | Bromobenzene                                   | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                         | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                         | 38.50         |
| 42     | Chlorobenzene                                  | 38.63         |
| 43     | 4-Chlorobenzene                                | 38.77         |
| 44     | tert-Butylbenzene                              | 39.76         |
| 45     | 1,2,4-Trimethylbenzene                         | 39.91         |
| 46     | Pentachloroethane                              | 40.17         |
| 47     | sec-Butylbenzene                               | 40.52         |
| 48     | p-Isopropylbenzene                             | 41.02         |
| 49     | 1,3-Trichlorobenzene                           | 41.42         |
| 50     | 1,4-Dichlorobenzene                            | 41.83         |
| 51     | n-Butylbenzene                                 | 42.52         |
| 52     | 1,2-Dichlorobenzene                            | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                    | 46.12         |
| 54     | Nitrobenzene                                   | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                         | 49.28         |
| 56     | Hexachlorocyclopentadiene                      | 49.72         |
| 57     | Naphthalene                                    | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                         | 51.16         |

## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                                     |                                   |                       |
|---------------------|-------------------------------------|-----------------------------------|-----------------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC              | Emergency Telephone USA & CANADA  | <b>1-800-535-5053</b> |
| Address             | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International | <b>1-352-323-3500</b> |
|                     |                                     | Date Prepared/Revised             | January 1, 2024       |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                  |                                                                                                                               |                                                |                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H225<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>If in eyes, remove contacts, rinse with water |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Signal Word: DANGER

## Section III - Composition

|                                                         |         |              |
|---------------------------------------------------------|---------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | CAS#:   | % (optional) |
| Methanol<br>METHYL ALCOHOL                              | 67-56-1 | > 97         |

See Certified Weight Report For Other Analytes Present At Trace Quantities.

## INTENDED USE: REFERENCE MATERIAL

## Section IV. FIRST AID MEASURES

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| If inhaled              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician.                                                              |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| If swallowed            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

## Section VI. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.                                                                                              |
| Clean up                  | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).                                                             |

## Section VII. HANDLING AND STORAGE

|                               |                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.                                                                                                                                                                                                        |
| Storage Conditions            | Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                                                                               |                                                                                                   |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Methanol                                                                                      | 67-56-1 TWA 200 ppm                                                                               |
| Skin notation                                                                                 | TWA 200 ppm                                                                                       |
| Potential for skin absorption, ingestion and inhalation.                                      |                                                                                                   |
| Personal protective equipment                                                                 | Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. |                                                                                                   |

## Section IX - Physical/Chemical Characteristics

|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(Butyl Acetate = 1) | 4.6   |
| Solubility in Water     | COMPLETE                                                  |                                         |       |
| Appearance and Odor     | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. |                                         |       |

**Section X. STABILITY AND REACTIVITY**

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Chemical stability                                             | Stable under recommended storage conditions.                                             |
| Possibility of hazardous reactions                             | Vapours may form explosive mixture with air.                                             |
| Conditions to avoid                                            | Heat, flames, sparks, extreme temperature and sunlight.                                  |
| Materials to avoid                                             | Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids |
| Hazardous decomposition products formed under fire conditions. | - Carbon oxides                                                                          |

**Section XI. TOXICOLOGICAL INFORMATION**

LD50 Oral - rat - 5,628 mg/kg  
LC50 Inhalation - rat - 4 h - 64000 ppm  
LD50 Dermal - rabbit - 15,800 mg/kg  
Toxic if absorbed through skin. Causes skin irritation.  
Eye damage/eye irritation  
Toxic if inhaled. Causes respiratory tract irritation.  
Toxic if swallowed.

**Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.**

LC50 15,400 mg/l - 96 h  
EC50 24,500.00 mg/l - 48 h  
EC100 10,000.00 mg/l - 24 h

**Section XIII. DISPOSAL CONSIDERATIONS**

Dispose with normal Laboratory Solvent Waste.

**Section XIV. TRANSPORT INFORMATION**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| DOT (US)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | Proper shipping name: Methanol             |

**Section XV. REGULATORY INFORMATION**

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant  
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section XVI. Misc. INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

## CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#  
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty  
Flask Uncertainty

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Prashant Chauhan  | 021624 |
| Reviewed By:   | Pedro L. Renteria | 021624 |
| DATE           |                   |        |

| Compound                            | (KMe)       | Lot         | Dir.   | Initial   | Initial      | Nominal      | Purity | Purity      | Uncertainty  | Target    | Actual    | Actual       | Expanded    | SDS Information |                             |                   |      |
|-------------------------------------|-------------|-------------|--------|-----------|--------------|--------------|--------|-------------|--------------|-----------|-----------|--------------|-------------|-----------------|-----------------------------|-------------------|------|
|                                     | Part Number | Number      | Factor | Vol. (mL) | Conc.(µg/mL) | Conc (µg/mL) | (%)    | Uncertainty | Pipette (mL) | Weight(g) | Weight(g) | Conc (µg/mL) | Uncertainty | (+/-) (µg/mL)   | CASE                        | OSHA PEL (TWA)    | LD50 |
| 1. Acetonitrile                     | (0324)      | 021644      | NA     | NA        | NA           | 2000         | 99.99  | 0.2         | NA           | 0.20007   | 0.20020   | 2001.3       | 8.1         | 75-05-8         | 40 ppm (70mg/m3/8H)         | or-rat 2450mg/kg  |      |
| 2. Allyl chloride (3-Chloropropene) | (0325)      | 102396      | NA     | NA        | NA           | 2000         | 99     | 0.2         | NA           | 0.20207   | 0.20221   | 2001.4       | 8.2         | 107-05-1        | 1 ppm (3mg/m3/8H)           | or-rat 700mg/kg   |      |
| 3. Carbon disulfide                 | (0060)      | MKCR8561    | NA     | NA        | NA           | 2000         | 99.99  | 0.2         | NA           | 0.20007   | 0.20023   | 2001.6       | 8.1         | 75-15-0         | 4 ppm (12mg/m3) (skin)      | or-rat 1200mg/kg  |      |
| 4. cis-1,4-Dichloro-2-butene        | (1196)      | 14718EF     | NA     | NA        | NA           | 2000         | 95     | 0.2         | NA           | 0.21056   | 0.21069   | 2001.1       | 8.5         | 1478-11-5       | 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 7872mg/kg  |      |
| 13. Nitrobenzene                    | (0228)      | 01213TV     | NA     | NA        | NA           | 2000         | 99     | 0.2         | NA           | 0.20207   | 0.20220   | 2001.3       | 8.2         | 98-95-3         | 1 ppm (5mg/m3/8H)(skin)     | or-rat 780mg/kg   |      |
| 14. 2-Nitropropane                  | (0461)      | 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                         | N/A               |      |
| 20. trans-1,2-Dichloroethene        | 35171       | 101623      | 0.05   | 5.00      | 40003.4      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 23.0        | 158-60-5        | N/A                         | N/A               |      |
| 21. Methylene chloride              | 35171       | 101623      | 0.05   | 5.00      | 40002.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.6       | 22.9        | 75-09-2         | 500 ppm                     | or-rat 1235mg/kg  |      |
| 22. 1,1-Dichloroethane              | 32251       | 102023      | 0.10   | 10.00     | 20001.6      | 2000         | NA     | NA          | 0.042        | NA        | NA        | 1999.7       | 20.4        | 75-35-4         | 1 ppm (4mg/m3/8H)           | 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        | 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                         | N/A               |      |
| 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 2402mg/kg  |      |
| 44. 1,2,3-Trichloropropane          | 35161       | 112322      | 0.05   | 5.00      | 40007.5      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.9       | 22.9        | 98-18-4         | 10 ppm (60mg/m3/8H)         | or-rat 149.8mg/kg |      |
| 45. Benzene                         | 35162       | 050823      | 0.05   | 5.00      | 40006.0      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.7       | 22.9        | 71-43-2         | 1 ppm                       | or-rat 4894mg/kg  |      |
| 46. Bromobenzene                    | 35162       | 050823      | 0.05   | 5.00      | 40003.8      | 2000         | NA     | NA          | 0.017        | NA        | NA        | 1999.8       | 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        | 1999.6       | 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        | 108-38-3        | 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        | 1999.8       | 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                         |                   |      |

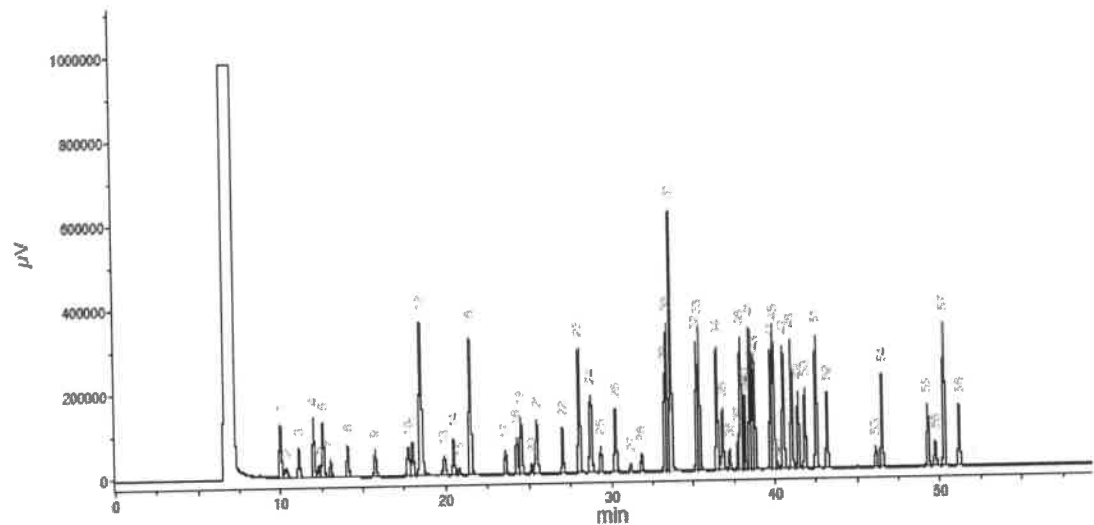


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.  
Created: Sat, Feb 17, 2024 at 8:56:46 AM.  
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".  
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren  
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness  
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,  
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.  
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),  
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.  
FID Signal = Edaq Channel 1  
Standard injection = 0.5µL, Range=3



| Peak # | Name                                           | FID RT (min.) |
|--------|------------------------------------------------|---------------|
| 1      | Ether                                          | 9.97          |
| 2      | 1,1,2-Trichloro-1,2,2-trifluoroethane          | 10.53         |
| 3      | 1,1-Dichloroethane                             | 11.10         |
| 4      | Acetonitrile                                   | 12.60         |
| 5      | Iodomethane                                    | 12.91         |
| 6      | Allyl chloride                                 | 12.96         |
| 7      | Carbon disulfide/Methylene chloride            | 13.04         |
| 8      | trans-1,2-Dichloroethene                       | 14.07         |
| 9      | 1,1-Dichloroethane                             | 15.74         |
| 10     | 2,2-Dichloropropane                            | 17.74         |
| 11     | cis-1,2-Dichloroethene                         | 18.00         |
| 12     | Methoxyvinylbenzene/Methyl acrylate/Chloroform | 18.49         |
| 13     | Isobutene/1,1,1-Trichloroethane                | 18.91         |
| 14     | 1,1-Dichloropropane                            | 20.46         |
| 15     | Carbon tetrachloride                           | 20.79         |
| 16     | Benzene/1,2-Dichloroethane                     | 21.48         |
| 17     | Trichloroethene                                | 23.88         |
| 18     | 1,2-Dichloropropane                            | 24.52         |
| 19     | Methyl methacrylate                            | 25.13         |
| 20     | Bromochloropropane                             | 25.46         |
| 21     | Dibromomethane/2-Bromopropane                  | 27.07         |
| 22     | cis-1,2-Dichloroethene                         | 28.03         |
| 23     | Toluene                                        | 28.73         |
| 24     | Ethyl methacrylate/trans-1,2-Dichloroethene    | 29.34         |
| 25     | 1,1,2-Trichloroethane                          | 30.34         |
| 26     | Tetrachloroethane/1,2-Dichloropropane          | 31.16         |
| 27     | Dibromochloromethane                           | 32.84         |
| 28     | 1,2-Dibromomethane                             | 33.26         |
| 29     | Chlorobenzene                                  | 33.40         |
| 30     | Ethylbenzene/1,1,1,2-Tetrachloroethane         | 33.85         |
| 31     | m-Xylene/p-Xylene                              | 35.33         |
| 32     | o-Xylene                                       | 35.70         |
| 33     | Styrene                                        | 35.70         |
| 34     | Isopropylbenzene/Bromofarm                     | 36.48         |
| 35     | cis-1,4-Dichloro-3-butene                      | 36.80         |
| 36     | 1,1,2-Trichloropropane                         | 37.23         |
| 37     | n-Propylbenzene                                | 37.77         |
| 38     | trans-1,4-Dichloro-3-butene                    | 37.92         |
| 39     | Bromobenzene                                   | 38.05         |
| 40     | 1,3,5-Trimethylbenzene                         | 38.14         |
| 41     | 1,3,5-Trimethylbenzene                         | 38.50         |
| 42     | Chlorobenzene                                  | 38.63         |
| 43     | 4-Chlorobenzene                                | 38.77         |
| 44     | tert-Butylbenzene                              | 39.76         |
| 45     | 1,2,4-Trimethylbenzene                         | 39.91         |
| 46     | Pentachloroethane                              | 40.17         |
| 47     | sec-Butylbenzene                               | 40.52         |
| 48     | p-Isopropylbenzene                             | 41.02         |
| 49     | 1,3-Trichlorobenzene                           | 41.42         |
| 50     | 1,4-Dichlorobenzene                            | 41.83         |
| 51     | n-Butylbenzene                                 | 42.52         |
| 52     | 1,2-Dichlorobenzene                            | 42.18         |
| 53     | 1,2-Dibromo-3-chloropropane                    | 46.12         |
| 54     | Nitrobenzene                                   | 46.40         |
| 55     | 1,2,4-Trifluorobenzene                         | 49.28         |
| 56     | Hexachlorocyclopentadiene                      | 49.72         |
| 57     | Naphthalene                                    | 50.56         |
| 58     | 1,2,3-Trichlorobenzene                         | 51.16         |



## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                                     |                                   |                 |
|---------------------|-------------------------------------|-----------------------------------|-----------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC              | Emergency Telephone USA & CANADA  | 1-800-535-5053  |
| Address             | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International | 1-352-323-3500  |
|                     |                                     | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                  |                                                                                                                               |                                                |                                                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H225<br>H370<br>P271<br>P302,332 | Highly Flammable Liquid and Vapor<br>Cause damage to organs<br>Use in ventilated area<br>If on skin, wash with soap and water | H301, 311, 331<br>H351<br>P280<br>P305,351,338 | Toxic if swallowed, skin contact, inhaled<br>Suspected of causing cancer<br>Use gloves, eye protection/face shield<br>If in eyes, remove contacts, rinse with water |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Signal Word: DANGER

## Section III - Composition

|                                                         |         |              |
|---------------------------------------------------------|---------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) | CAS#    | % (optional) |
| Methanol<br>METHYL ALCOHOL                              | 67-56-1 | > 97         |

See Certified Weight Report For Other Analytes Present At Trace Quantities.

## INTENDED USE: REFERENCE MATERIAL

## Section IV. FIRST AID MEASURES

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| If inhaled              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician.                                                              |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| If swallowed            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

## Section VI. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.                                                                                              |
| Clean up                  | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).                                                             |

## Section VII. HANDLING AND STORAGE

|                               |                                                                                                                                                                                                                                                                              |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.                                                                                                                                                                                                        |
| Storage Conditions            | Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                             |                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|
| Methanol                                    | 67-56-1 TWA 200 ppm                                                                               |
| Skin notation                               | TWA 200 ppm                                                                                       |
| Potential for skin absorption               | ingestion and inhalation.                                                                         |
| Personal protective equipment               | Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. | Wash hands thoroughly after handling the product.                                                 |

## Section IX - Physical/Chemical Characteristics



|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(Butyl Acetate = 1) | 4.6   |
| Solubility in Water     | COMPLETE                                                  |                                         |       |
| Appearance and Odor     | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. |                                         |       |

**Section X. STABILITY AND REACTIVITY**

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Chemical stability                                             | Stable under recommended storage conditions.                                             |
| Possibility of hazardous reactions                             | Vapours may form explosive mixture with air.                                             |
| Conditions to avoid                                            | Heat, flames, sparks, extreme temperature and sunlight.                                  |
| Materials to avoid                                             | Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids |
| Hazardous decomposition products formed under fire conditions. | - Carbon oxides                                                                          |

**Section XI. TOXICOLOGICAL INFORMATION**

LD50 Oral - rat - 5,628 mg/kg  
LC50 Inhalation - rat - 4 h - 64000 ppm  
LD50 Dermal - rabbit - 15,800 mg/kg  
Toxic if absorbed through skin. Causes skin irritation.  
Eye damage/eye irritation  
Toxic if inhaled. Causes respiratory tract irritation.  
Toxic if swallowed.

**Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.**

LC50 15,400 mg/l - 96 h  
EC50 24,500.00 mg/l - 48 h  
EC100 10,000.00 mg/l - 24 h

**Section XIII. DISPOSAL CONSIDERATIONS**

Dispose with normal Laboratory Solvent Waste.

**Section XIV. TRANSPORT INFORMATION**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| DOT (US)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | Proper shipping name: Methanol             |

**Section XV. REGULATORY INFORMATION**

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant  
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section XVI. Misc. INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



## 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#  
072324Q

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

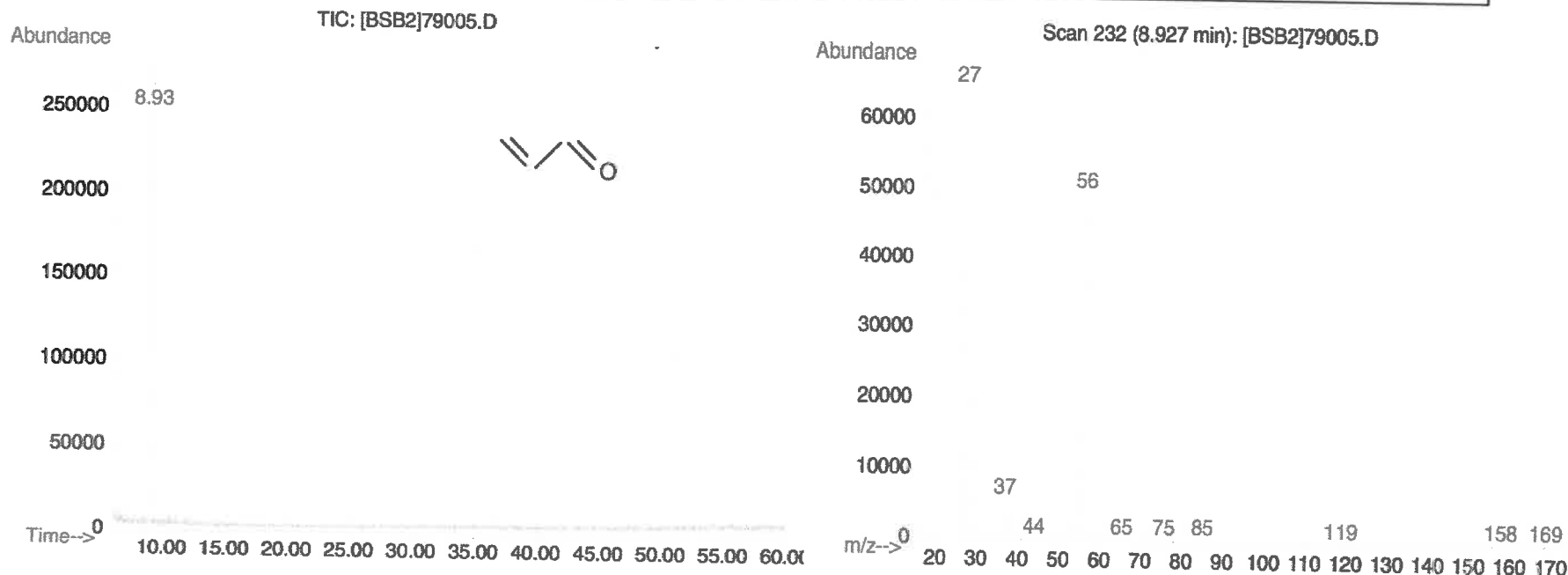
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- 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 vials

ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

Part Number: **91980**  
Lot Number: **091424**  
Description: **Acrolein**Solvent(s):  
Water Lot#  
072324Q

|                        |                 |        |
|------------------------|-----------------|--------|
| <i>Justin Dippold</i>  |                 | 091424 |
| Formulated By:         | Justin Dippold  | DATE   |
| <i>Pedro L. Rentas</i> |                 | 091424 |
| Reviewed By:           | Pedro L. Rentas | DATE   |

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05175          | 5008.9              | 52.5                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--&gt; 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z--&gt; 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

See 1216124  
20 vial  
V14630 to  
V14649

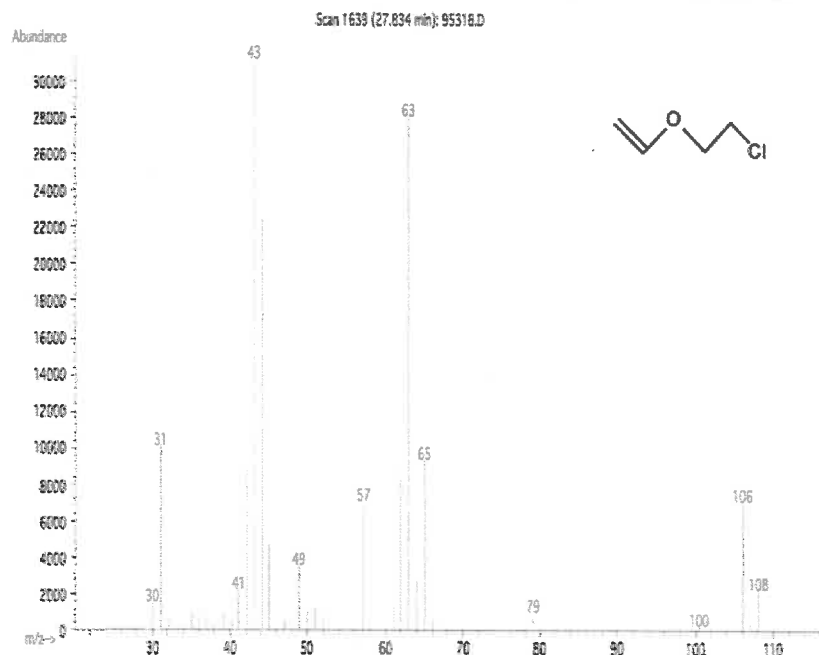
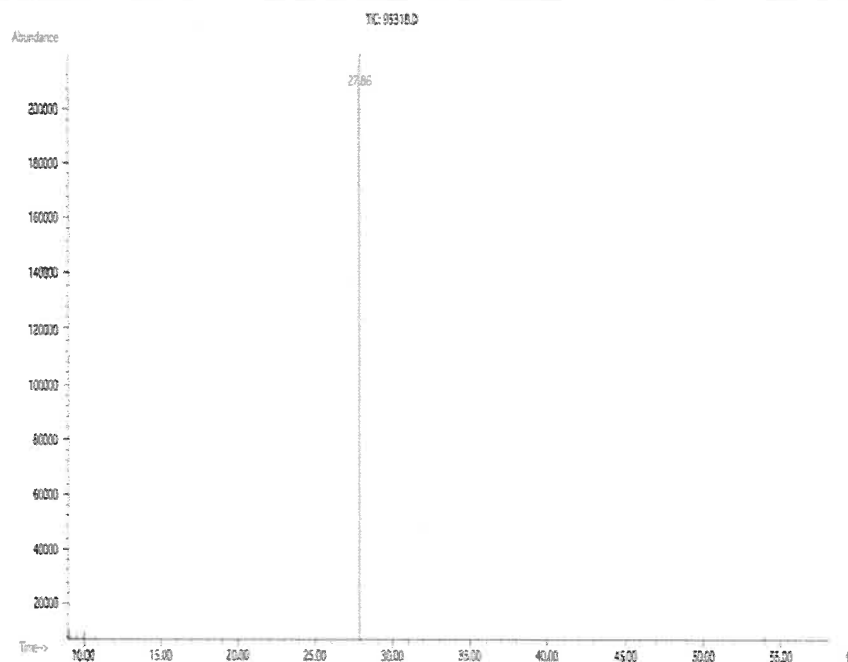
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 120524 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 120524 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

| Compound                     | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                  |
|------------------------------|-----|------------|----------------------|------------|--------------------|-------------------|-------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|------------------|
|                              |     |            |                      |            |                    |                   |                   |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50             |
| 1. 2-Chloroethyl vinyl ether | 74  | MKCD0033   | 10000                | 99         | 0.2                | 0.50536           | 0.50550           | 10002.9             | 40.5                               | 110-75-8                                               | N/A            | ori-rat 250mg/kg |

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                        |                                   |                 |
|---------------------|------------------------|-----------------------------------|-----------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA  | 1-800-535-5053  |
| Address             | 44 Rossotto Dr.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| H225     | Highly Flammable Liquid and Vapor    | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled     |
| H370     | Cause damage to organs               | H351           | Suspected of causing cancer                   |
| P271     | Use in ventilated area               | P280           | Use gloves, eye protection/face shield        |
| P302,332 | If on skin, wash with soap and water | P305,351,338   | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

## Section III - Composition

|                                                         |                |              |
|---------------------------------------------------------|----------------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) |                | % (optional) |
| Methanol                                                | METHYL ALCOHOL | > 97         |

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

## Section IV. FIRST AID MEASURES

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| If inhaled              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician.                                                              |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| If swallowed            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

## Section VI. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.                                                                                              |
| Clean up                  | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).                                                             |

## Section VII. HANDLING AND STORAGE

|                               |                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions            | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.                           |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                                                                               |                        |                                                                            |
|-----------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------|
| Methanol                                                                                      | 67-56-1                | TWA 200 ppm                                                                |
| Skin notation                                                                                 |                        | TWA 200 ppm                                                                |
| Potential for skin absorption, ingestion and inhalation.                                      |                        |                                                                            |
| Personal protective equipment                                                                 | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. |                        |                                                                            |

## Section IX - Physical/Chemical Characteristics

|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(Butyl Acetate = 1) | 4.6   |
| Solubility in Water     | COMPLETE                                                  |                                         |       |
| Appearance and Odor     | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. |                                         |       |

**Section X. STABILITY AND REACTIVITY**

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Chemical stability                                             | Stable under recommended storage conditions.                                             |
| Possibility of hazardous reactions                             | Vapours may form explosive mixture with air.                                             |
| Conditions to avoid                                            | Heat, flames, sparks, extreme temperature and sunlight.                                  |
| Materials to avoid                                             | Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids |
| Hazardous decomposition products formed under fire conditions. | - Carbon oxides                                                                          |

**Section XI. TOXICOLOGICAL INFORMATION**

LD50 Oral - rat - 5,628 mg/kg  
LC50 Inhalation - rat - 4 h - 64000 ppm  
LD50 Dermal - rabbit - 15,800 mg/kg  
Toxic if absorbed through skin. Causes skin irritation.  
Eye damage/eye irritation  
Toxic if inhaled. Causes respiratory tract irritation.  
Toxic if swallowed.

**Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.**

LC50 15,400 mg/l - 96 h  
EC50 24,500.00 mg/l - 48 h  
EC100 10,000.00 mg/l - 24 h

**Section XIII. DISPOSAL CONSIDERATIONS**

Dispose with normal Laboratory Solvent Waste.

**Section XIV. TRANSPORT INFORMATION**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| DOT (US)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | Proper shipping name: Methanol             |

**Section XV. REGULATORY INFORMATION**

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant  
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section XVI. Misc. INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

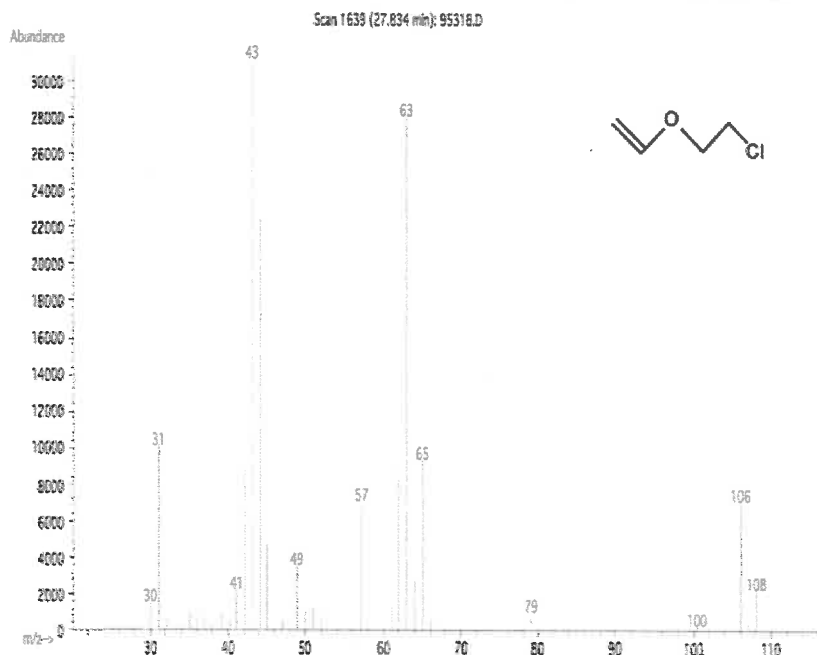
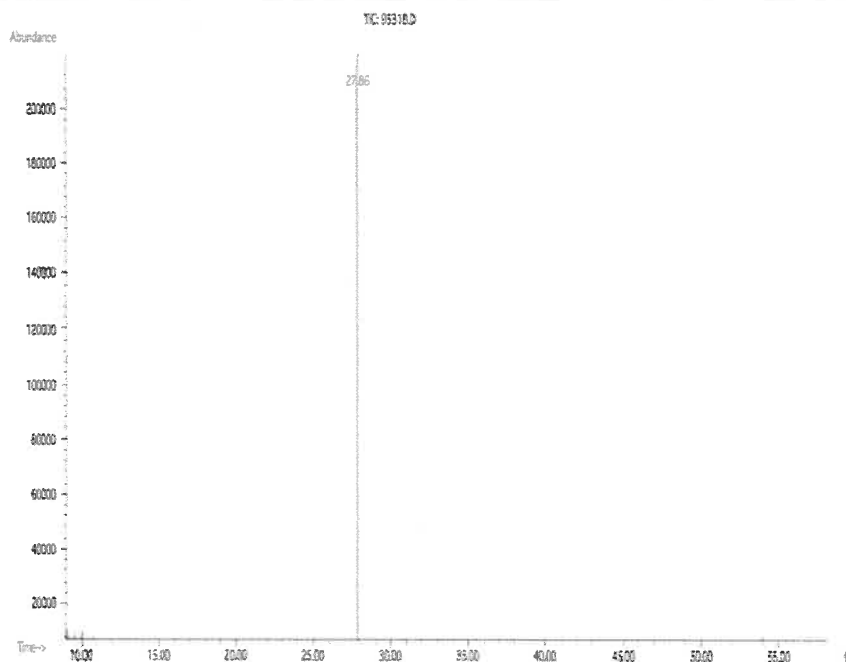
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 120524 |
| Reviewed By:            | Pedro L. Rentas  | DATE   |

| Compound                     | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                  |
|------------------------------|-----|------------|----------------------|------------|--------------------|-------------------|-------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|------------------|
|                              |     |            |                      |            |                    |                   |                   |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50             |
| 1. 2-Chloroethyl vinyl ether | 74  | MKCD0033   | 10000                | 99         | 0.2                | 0.50536           | 0.50550           | 10002.9             | 40.5                               | 110-75-8                                               | N/A            | ori-rat 250mg/kg |

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                        |                                   |                 |
|---------------------|------------------------|-----------------------------------|-----------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA  | 1-800-535-5053  |
| Address             | 44 Rossotto Dr.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| H225     | Highly Flammable Liquid and Vapor    | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled     |
| H370     | Cause damage to organs               | H351           | Suspected of causing cancer                   |
| P271     | Use in ventilated area               | P280           | Use gloves, eye protection/face shield        |
| P302,332 | If on skin, wash with soap and water | P305,351,338   | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

## Section III - Composition

|                                                         |                |              |
|---------------------------------------------------------|----------------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) |                | % (optional) |
| Methanol                                                | METHYL ALCOHOL | > 97         |

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

## Section IV. FIRST AID MEASURES

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| If inhaled              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician.                                                              |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| If swallowed            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

## Section VI. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.                                                                                              |
| Clean up                  | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).                                                             |

## Section VII. HANDLING AND STORAGE

|                               |                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions            | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.                           |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                                                                               |                        |                                                                            |
|-----------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------|
| Methanol                                                                                      | 67-56-1                | TWA 200 ppm                                                                |
| Skin notation                                                                                 |                        | TWA 200 ppm                                                                |
| Potential for skin absorption, ingestion and inhalation.                                      |                        |                                                                            |
| Personal protective equipment                                                                 | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. |                        |                                                                            |

## Section IX - Physical/Chemical Characteristics



|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(Butyl Acetate = 1) | 4.6   |
| Solubility in Water     | COMPLETE                                                  |                                         |       |
| Appearance and Odor     | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. |                                         |       |

**Section X. STABILITY AND REACTIVITY**

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Chemical stability                                             | Stable under recommended storage conditions.                                             |
| Possibility of hazardous reactions                             | Vapours may form explosive mixture with air.                                             |
| Conditions to avoid                                            | Heat, flames, sparks, extreme temperature and sunlight.                                  |
| Materials to avoid                                             | Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids |
| Hazardous decomposition products formed under fire conditions. | - Carbon oxides                                                                          |

**Section XI. TOXICOLOGICAL INFORMATION**

LD50 Oral - rat - 5,628 mg/kg  
LC50 Inhalation - rat - 4 h - 64000 ppm  
LD50 Dermal - rabbit - 15,800 mg/kg  
Toxic if absorbed through skin. Causes skin irritation.  
Eye damage/eye irritation  
Toxic if inhaled. Causes respiratory tract irritation.  
Toxic if swallowed.

**Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.**

LC50 15,400 mg/l - 96 h  
EC50 24,500.00 mg/l - 48 h  
EC100 10,000.00 mg/l - 24 h

**Section XIII. DISPOSAL CONSIDERATIONS**

Dispose with normal Laboratory Solvent Waste.

**Section XIV. TRANSPORT INFORMATION**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| DOT (US)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | Proper shipping name: Methanol             |

**Section XV. REGULATORY INFORMATION**

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant  
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section XVI. Misc. INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



## Certified Reference Material CRM



## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

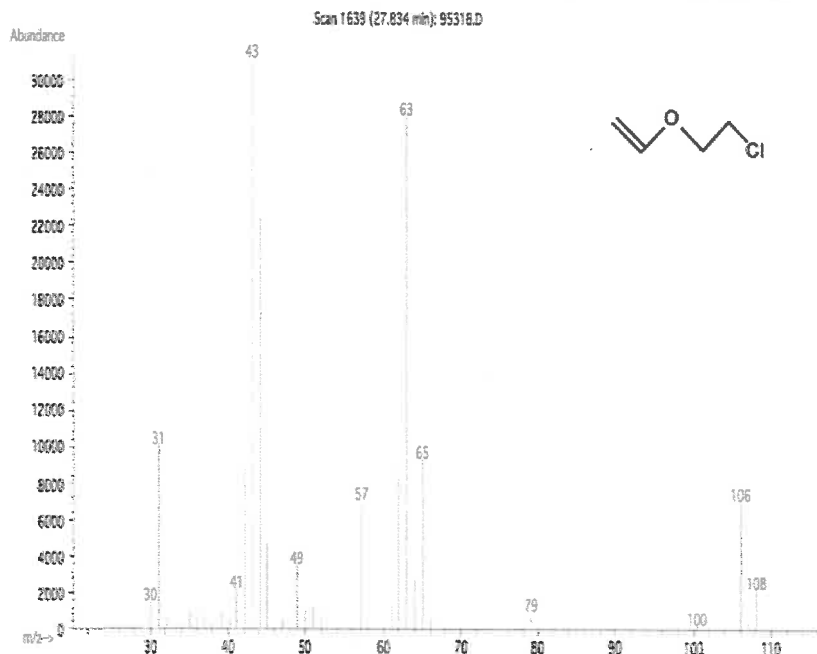
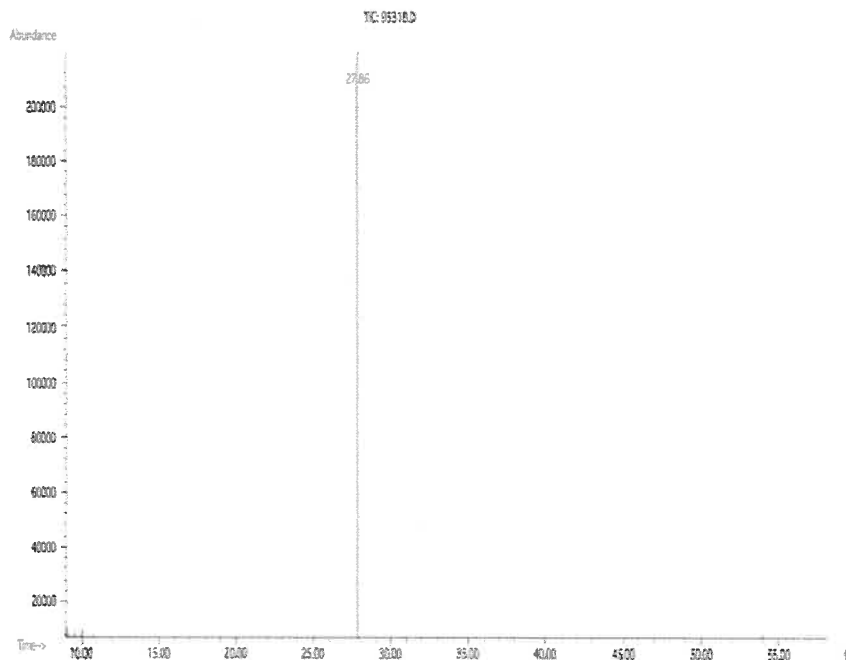
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 120524 |
| Reviewed By:            | Pedro L. Rentas  | DATE   |

| Compound                     | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                  |
|------------------------------|-----|------------|----------------------|------------|--------------------|-------------------|-------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|------------------|
|                              |     |            |                      |            |                    |                   |                   |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50             |
| 1. 2-Chloroethyl vinyl ether | 74  | MKCD0033   | 10000                | 99         | 0.2                | 0.50536           | 0.50550           | 10002.9             | 40.5                               | 110-75-8                                               | N/A            | ori-rat 250mg/kg |

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                        |                                   |                 |
|---------------------|------------------------|-----------------------------------|-----------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA  | 1-800-535-5053  |
| Address             | 44 Rossotto Dr.        | Emergency Telephone International | 1-352-323-3500  |
|                     | Hamden CT, 06514       | Date Prepared/Revised             | January 1, 2024 |

## Section II - Hazards Identification

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|          |                                      |                |                                               |
|----------|--------------------------------------|----------------|-----------------------------------------------|
| H225     | Highly Flammable Liquid and Vapor    | H301, 311, 331 | Toxic if swallowed, skin contact, inhaled     |
| H370     | Cause damage to organs               | H351           | Suspected of causing cancer                   |
| P271     | Use in ventilated area               | P280           | Use gloves, eye protection/face shield        |
| P302,332 | If on skin, wash with soap and water | P305,351,338   | If in eyes, remove contacts, rinse with water |



Signal Word: DANGER

## Section III - Composition

|                                                         |                |              |
|---------------------------------------------------------|----------------|--------------|
| Components (Specific Chemical Identity; Common Name(s)) |                | % (optional) |
| Methanol                                                | METHYL ALCOHOL | > 97         |

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

## Section IV. FIRST AID MEASURES

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.            |
| If inhaled              | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash with soap and water. Consult a physician.                                                              |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                      |
| If swallowed            | Do NOT induce vomiting. Rinse mouth with water. Consult a physician.                                        |

## Section V. FIREFIGHTING MEASURES

|                               |                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                  | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| Suitable extinguishing media  | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                                                                                        |
| Protective equipment for fire | Wear self contained breathing apparatus for fire fighting if necessary.                                                                                         |

## Section VI. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions      | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains.                                                                                              |
| Clean up                  | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).                                                             |

## Section VII. HANDLING AND STORAGE

|                               |                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions            | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.                           |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                                                                               |                        |                                                            |                 |
|-----------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|-----------------|
| Methanol                                                                                      | 67-56-1                | 67-56-1                                                    | TWA 200 ppm     |
| Skin notation                                                                                 |                        |                                                            | TWA 200 ppm     |
| Potential for skin absorption, ingestion and inhalation.                                      |                        |                                                            |                 |
| Personal protective equipment                                                                 | Respiratory protection | Handle with gloves. Gloves must be inspected prior to use. | Eye protection. |
| Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product. |                        |                                                            |                 |

## Section IX - Physical/Chemical Characteristics

|                         |                                                           |                                         |       |
|-------------------------|-----------------------------------------------------------|-----------------------------------------|-------|
| Boiling Point           | 65°C                                                      | Specific Gravity (H <sub>2</sub> O = 1) | 0.79  |
| Vapor Pressure (mm Hg)  | 96                                                        | Melting Point                           | -98°C |
| Vapor Density (AIR = 1) | 1.11                                                      | Evaporation rate<br>(Butyl Acetate = 1) | 4.6   |
| Solubility in Water     | COMPLETE                                                  |                                         |       |
| Appearance and Odor     | CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR. |                                         |       |

**Section X. STABILITY AND REACTIVITY**

|                                                                |                                                                                          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Chemical stability                                             | Stable under recommended storage conditions.                                             |
| Possibility of hazardous reactions                             | Vapours may form explosive mixture with air.                                             |
| Conditions to avoid                                            | Heat, flames, sparks, extreme temperature and sunlight.                                  |
| Materials to avoid                                             | Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids |
| Hazardous decomposition products formed under fire conditions. | - Carbon oxides                                                                          |

**Section XI. TOXICOLOGICAL INFORMATION**

LD50 Oral - rat - 5,628 mg/kg  
LC50 Inhalation - rat - 4 h - 64000 ppm  
LD50 Dermal - rabbit - 15,800 mg/kg  
Toxic if absorbed through skin. Causes skin irritation.  
Eye damage/eye irritation  
Toxic if inhaled. Causes respiratory tract irritation.  
Toxic if swallowed.

**Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.**

LC50 15,400 mg/l - 96 h  
EC50 24,500.00 mg/l - 48 h  
EC100 10,000.00 mg/l - 24 h

**Section XIII. DISPOSAL CONSIDERATIONS**

Dispose with normal Laboratory Solvent Waste.

**Section XIV. TRANSPORT INFORMATION**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| DOT (US)                                   | IATA                                       |
| UN number: 1230 Class: 3 Packing group: II | UN number: 1230 Class: 3 Packing group: II |
| Proper shipping name: Methanol             | Proper shipping name: Methanol             |

**Section XV. REGULATORY INFORMATION**

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant  
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section XVI. Misc. INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



## Certified Reference Material CRM



ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
<https://absolutestandards.com>

## CERTIFIED WEIGHT REPORT

Part Number: **95318**  
Lot Number: **120524**  
Description: **2-Chloroethyl vinyl ether**

Solvent(s):  
Methanol

Lot#  
EJ143-US

Expiration Date: **120527**  
Recommended Storage: **Refrigerate (4 °C)**  
Nominal Concentration (µg/mL): **10000**  
NIST Test ID#: **6UTB**

*See 1216124*  
*20 vial*  
*✓ 14630 to*  
*✓ 14649*

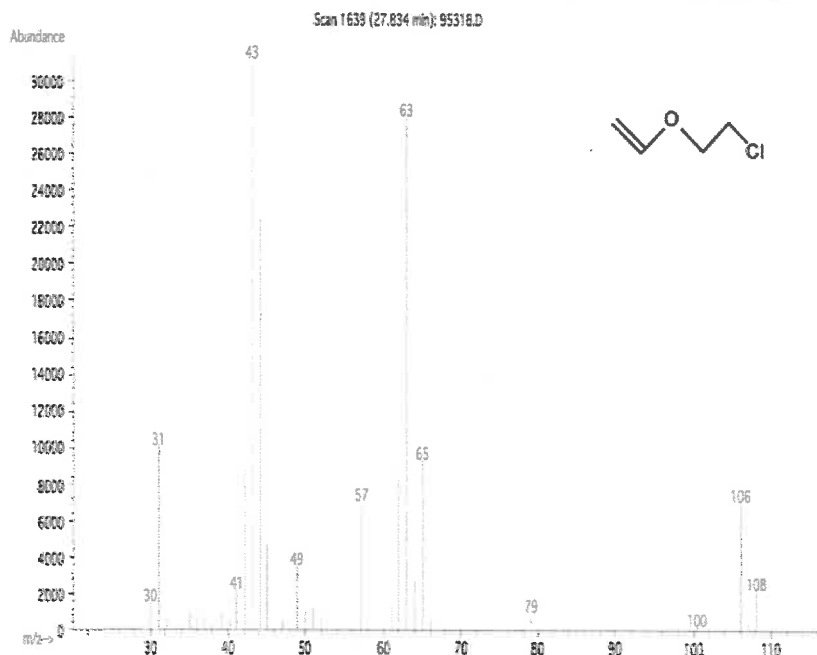
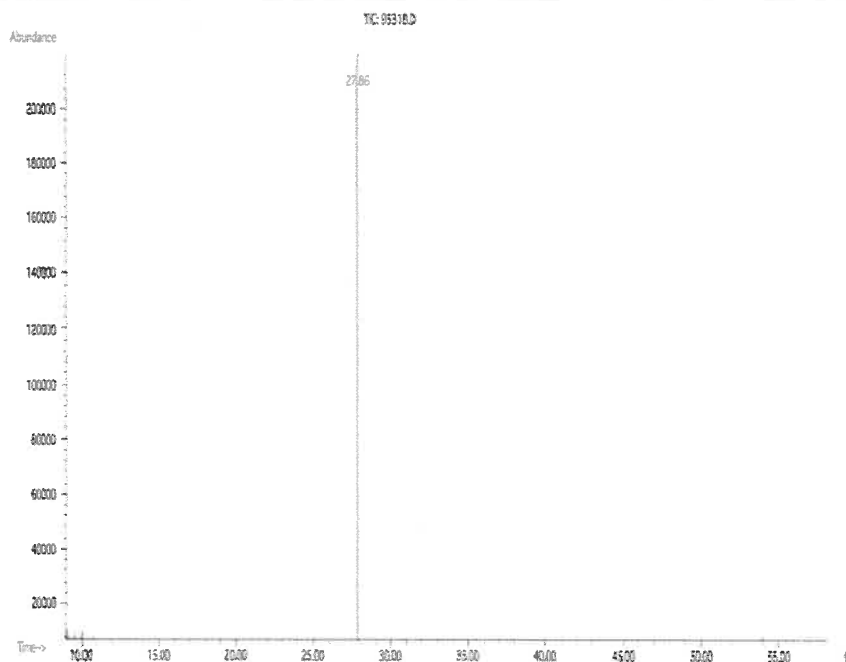
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                         |                  |        |
|-------------------------|------------------|--------|
| <i>Prashant Chauhan</i> |                  | 120524 |
| Formulated By:          | Prashant Chauhan | DATE   |
| <i>Pedro L. Rentas</i>  |                  | 120524 |
| Reviewed By:            | Pedro L. Rentas  | DATE   |

| Compound                     | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                  |
|------------------------------|-----|------------|----------------------|------------|--------------------|-------------------|-------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|------------------|
|                              |     |            |                      |            |                    |                   |                   |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50             |
| 1. 2-Chloroethyl vinyl ether | 74  | MKCD0033   | 10000                | 99         | 0.2                | 0.50536           | 0.50550           | 10002.9             | 40.5                               | 110-75-8                                               | N/A            | ori-rat 250mg/kg |

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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## Safety Data Sheet (SDS)

GHS/OSHA Compliant

## Section I Product and Company Identification

## IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

|                     |                        |                                   |                 |
|---------------------|------------------------|-----------------------------------|-----------------|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA  | 1-800-535-5053  |
| Address             | 44 Rossotto Dr.        | 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:**

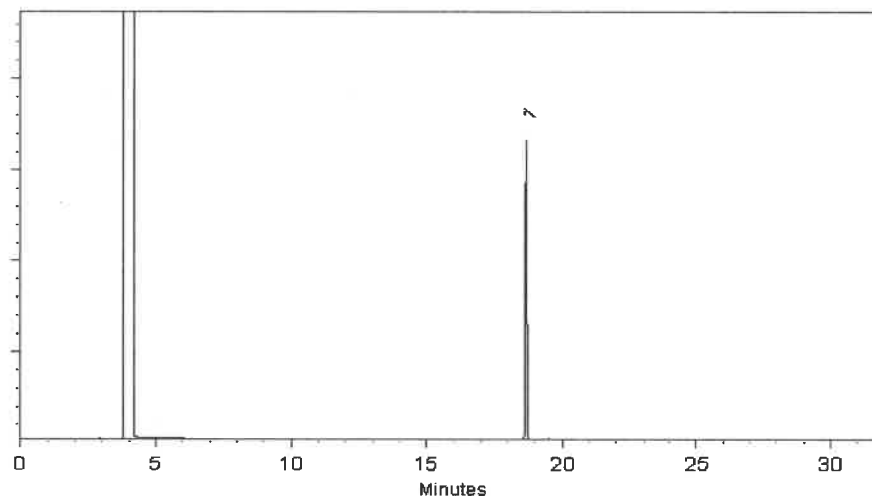
FID

**Split Vent:**

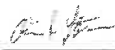
40 ml/min

**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

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. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

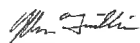
**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1           | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99%    | 25,212.0 µg/mL              | +/- 1,427.8857                         |
| 2           | 1,4-Difluorobenzene    | 540-36-3  | MKCS8657 | 99%    | 25,220.0 µg/mL              | +/- 1,428.3388                         |
| 3           | Chlorobenzene-d5       | 3114-55-4 | PR-31132 | 99%    | 25,116.0 µg/mL              | +/- 1,422.4487                         |
| 4           | Pentafluorobenzene     | 363-72-4  | MKCR9383 | 99%    | 25,180.0 µg/mL              | +/- 1,426.0734                         |

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

  
John Friedline - Operations Technician I

**Date Mixed:** 11-Apr-2024

**Balance:** 1127510105

REVISED  
By Restek Review of SDS per April 18, 2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# Certificate of Analysis

chromatographic plus

✓ 14697-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:**

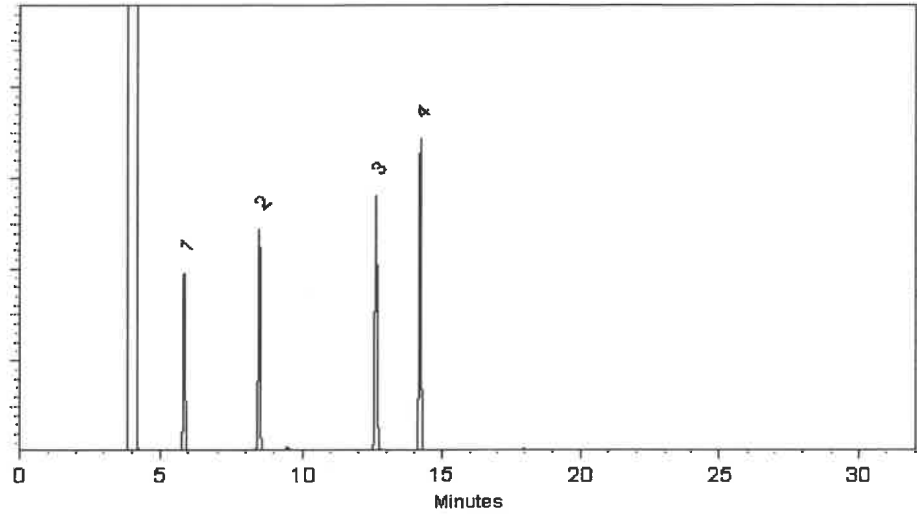
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

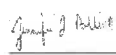


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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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**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:**

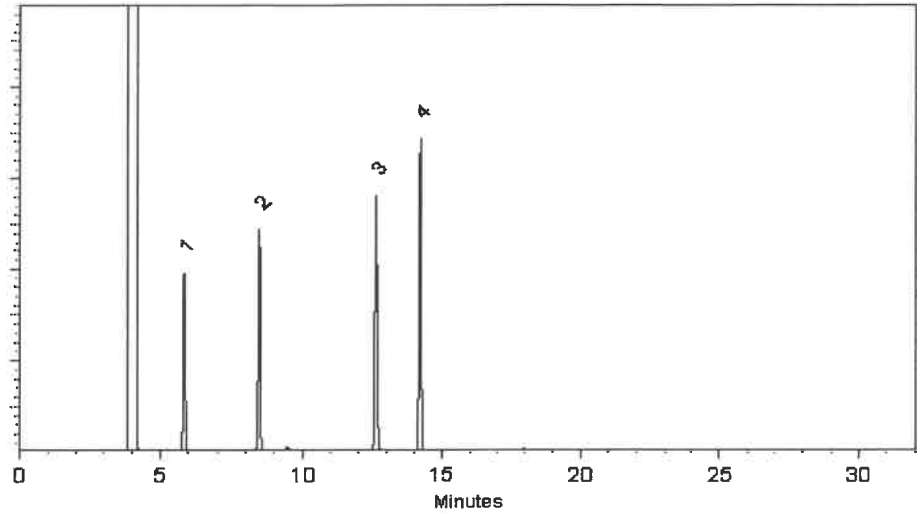
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

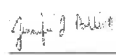


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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:

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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:

- 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

✓ 14697-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:**

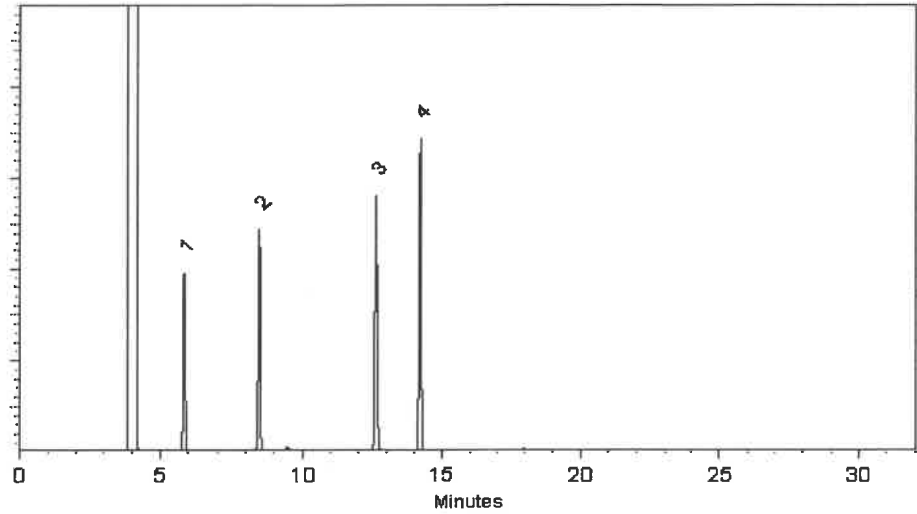
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

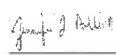


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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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10 vial.  
Dec: 12/09/24  
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## Certificate of Analysis

chromatographic plus  
V14667-5  
V14676



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960  
**Description :** Bromochloromethane Standard  
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder  
**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #   | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | Bromochloromethane | 74-97-5 | SYN240416CTH | 99%    | 2,012.0 µg/mL               | +/- 113.0519                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

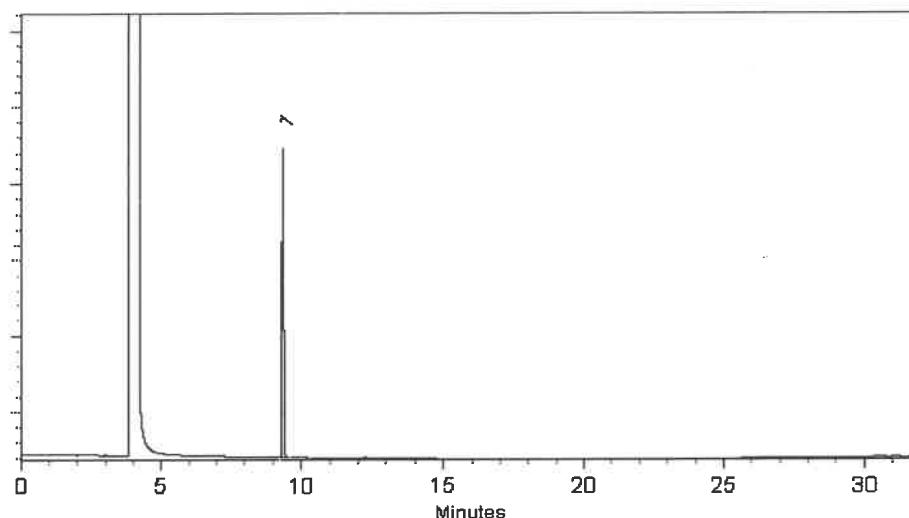
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24  
30 ml  
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**Certificate of Analysis**  
*chromatographic plus*

V14727 to  
V14756



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1  
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                         | CAS #   | Lot #           | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|-----------------------------|----------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922        | 99%    | 2,000.9 µg/mL               | +/- 112.4144                           |
| 2             | Chloromethane (methyl chloride)  | 74-87-3 | 00022694        | 99%    | 2,000.7 µg/mL               | +/- 112.3998                           |
| 3             | Vinyl chloride                   | 75-01-4 | 00015559        | 99%    | 2,000.3 µg/mL               | +/- 112.3779                           |
| 4             | Bromomethane (methyl bromide)    | 74-83-9 | 00017022        | 99%    | 2,001.8 µg/mL               | +/- 112.4650                           |
| 5             | Chloroethane (ethyl chloride)    | 75-00-3 | 107-401039114-1 | 99%    | 2,000.1 µg/mL               | +/- 112.3700                           |
| 6             | Trichlorofluoromethane (CFC-11)  | 75-69-4 | MKCJ8658        | 99%    | 2,000.7 µg/mL               | +/- 112.3992                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

helium-constant flow 2.0 mL/min.

**Temp. Program:**

40°C (hold 6 min.) to 100°C  
@ 6°C/min.

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

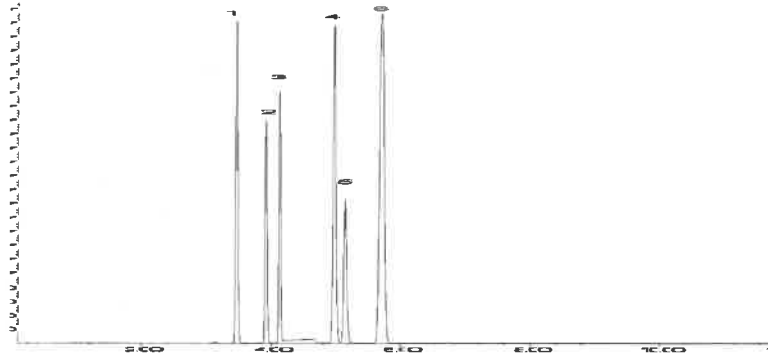
MSD

**Split Vent:**

Split ratio 10:1

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24  
30 ml  
CERTIFIED REFERENCE MATERIAL

**Certificate of Analysis**  
*chromatographic plus*

V14727 to  
V14756



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1  
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound                         | CAS #   | Lot #           | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------------------|---------|-----------------|--------|-----------------------------|----------------------------------------|
| 1             | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922        | 99%    | 2,000.9 µg/mL               | +/- 112.4144                           |
| 2             | Chloromethane (methyl chloride)  | 74-87-3 | 00022694        | 99%    | 2,000.7 µg/mL               | +/- 112.3998                           |
| 3             | Vinyl chloride                   | 75-01-4 | 00015559        | 99%    | 2,000.3 µg/mL               | +/- 112.3779                           |
| 4             | Bromomethane (methyl bromide)    | 74-83-9 | 00017022        | 99%    | 2,001.8 µg/mL               | +/- 112.4650                           |
| 5             | Chloroethane (ethyl chloride)    | 75-00-3 | 107-401039114-1 | 99%    | 2,000.1 µg/mL               | +/- 112.3700                           |
| 6             | Trichlorofluoromethane (CFC-11)  | 75-69-4 | MKCJ8658        | 99%    | 2,000.7 µg/mL               | +/- 112.3992                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

**Carrier Gas:**

helium-constant flow 2.0 mL/min.

**Temp. Program:**

40°C (hold 6 min.) to 100°C  
@ 6°C/min.

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

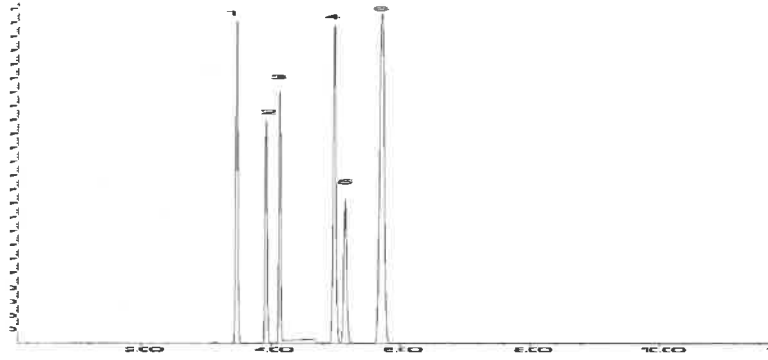
MSD

**Split Vent:**

Split ratio 10:1

**Inj. Vol**

1µl



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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:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0217535  
**Description :** tert-Butanol Standard  
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder  
**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #   | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|---------|------------|--------|-----------------------------|----------------------------------------|
| 1             | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99%    | 50,007.5 µg/mL              | +/- 717.6137                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

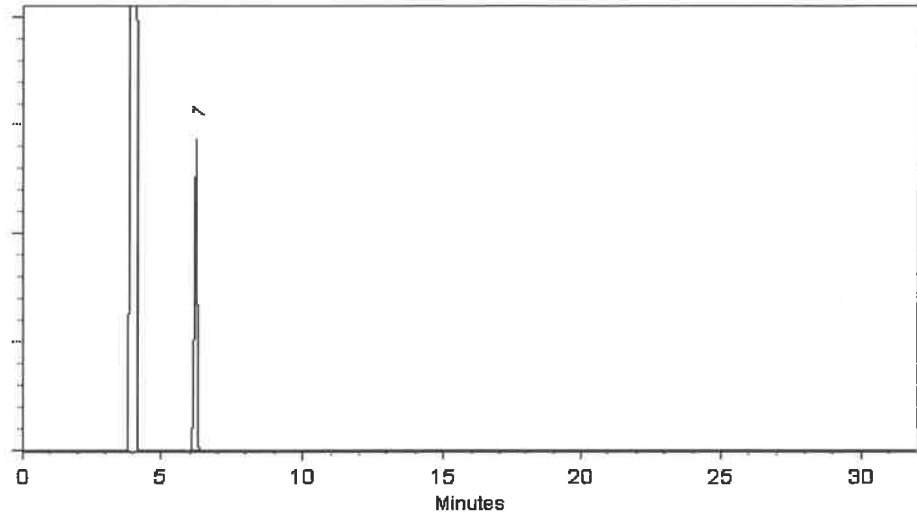
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A. O. E.*  
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

*Brittany Federinko*  
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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### Handling Notes:

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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic

V14803 - V14822



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471  
**Description :** Custom Vinyl Acetate Standard  
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder  
**Handling:** This product is photosensitive. **Ship:** On Ice

### CERTIFIED VALUES

| Elution Order | Compound      | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Vinyl acetate | 108-05-4 | RD240423RSR | 99%    | 8,066.0 µg/mL               | +/- 278.7979                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

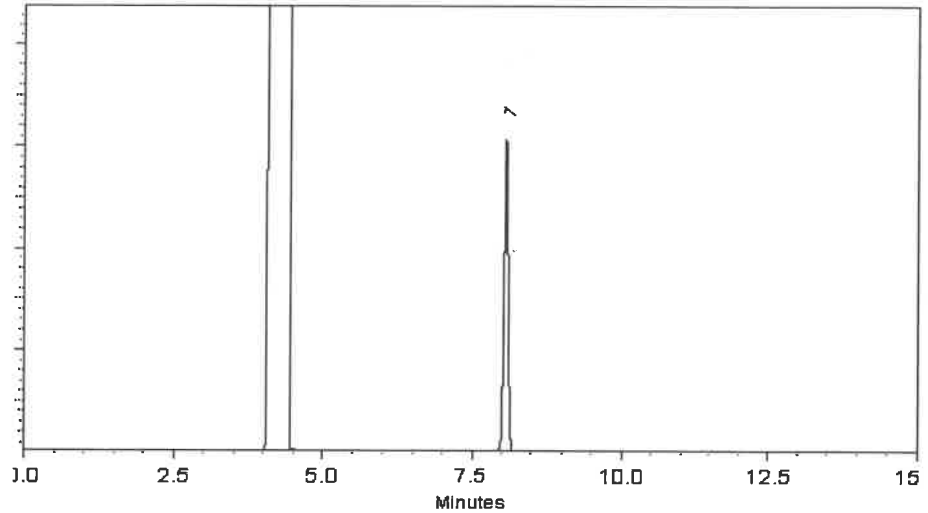
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl

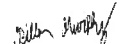


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

  
Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED  
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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2014 Dec 01/08/21  
CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

chromatographic

V14803 - V14822



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471  
**Description :** Custom Vinyl Acetate Standard  
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder  
**Handling:** This product is photosensitive. **Ship:** On Ice

### CERTIFIED VALUES

| Elution Order | Compound      | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|---------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Vinyl acetate | 108-05-4 | RD240423RSR | 99%    | 8,066.0 µg/mL               | +/- 278.7979                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

200°C

**Det. Temp:**

250°C

**Det. Type:**

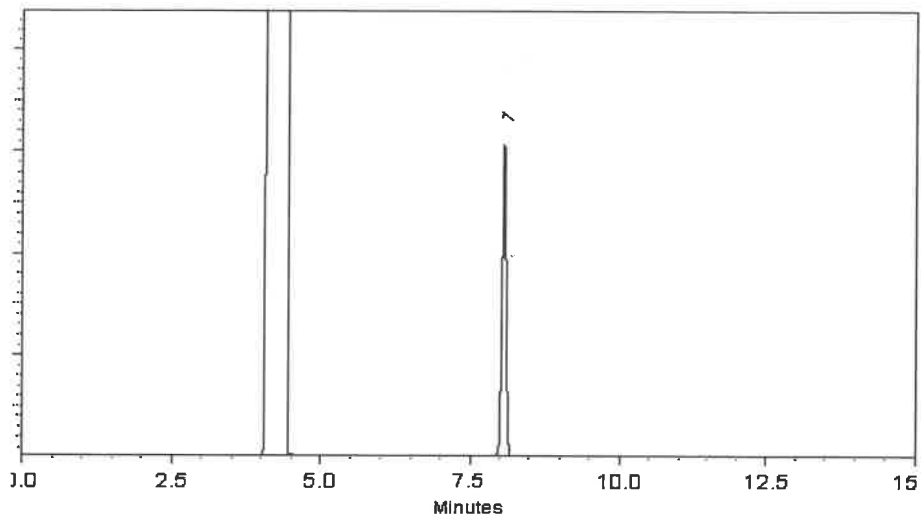
FID

**Split Vent:**

40 ml/min

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED  
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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10 vial  
Dec 03/31/25  
**CERTIFIED REFERENCE MATERIAL**

**Certificate of Analysis**  
gravimetric

V14904 to V14913



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0223904

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Component # | Compound                      | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2-Dichloroethane-d4         | 17060-07-0 | PR-33313   | 99%    | 25,108.0 µg/mL              | +/- 1,421.9957                         |
| 2           | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4   | 0000268853 | 99%    | 25,108.0 µg/mL              | +/- 1,421.9957                         |
| 3           | Dibromofluoromethane          | 1868-53-7  | VENKAT02   | 99%    | 25,232.0 µg/mL              | +/- 1,429.0184                         |
| 4           | Toluene-d8                    | 2037-26-5  | PR-34141   | 99%    | 25,156.0 µg/mL              | +/- 1,424.7141                         |

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

  
Brittany Federlino - Operations Tech I

**Date Mixed:** 27-Mar-2025

**Balance:** B251644995



Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis

Rev 05/09/25  
**Avantor™**



V 14921 to  
V 14938

Material No.: 9077-02  
Batch No.: 24G0262002  
Manufactured Date: 2024-05-14  
Expiration Date: 2027-05-14  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
| Residue after Evaporation                               | ≤ 1.0 ppm     | 0.3 ppm  |
| Titration Acid (μeq/g)                                  | ≤ 0.3         | 0.3      |
| Titration Base (μeq/g)                                  | ≤ 0.10        | 0.03     |
| Water (by KF, coulometric)                              | ≤ 0.08 %      | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL  | Conforms      | Conforms |

For Laboratory, Research, or Manufacturing Use  
Performance Tested for Use in EPA Methods  
500 Series for Drinking Water  
600 Series for Wastewater  
846 for Solid Waste

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis

Rev 05/09/25  
**Avantor**<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   |
|---------------------------------------------------------|---------------|----------|
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For Laboratory, Research, or Manufacturing Use  
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Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis

Rev 05/09/25  
**Avantor™**



V 14921 to  
V 14938

Material No.: 9077-02  
Batch No.: 24G0262002  
Manufactured Date: 2024-05-14  
Expiration Date: 2027-05-14  
Revision No.: 0

## Certificate of Analysis

| Test                                                    | Specification | Result   |
|---------------------------------------------------------|---------------|----------|
| Assay (CH <sub>3</sub> OH) (by GC, corrected for water) | ≥ 99.9 %      | 100.0 %  |
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| Titration Base (μeq/g)                                  | ≤ 0.10        | 0.03     |
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| Volatile Organic Trace Analysis – Below EPA 8260B CRQL  | Conforms      | Conforms |

For Laboratory, Research, or Manufacturing Use  
Performance Tested for Use in EPA Methods  
500 Series for Drinking Water  
600 Series for Wastewater  
846 for Solid Waste

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production

Methanol  
ULTRA RESI-ANALYZED  
For Purge and Trap Analysis

Rev 05/09/25  
**Avantor**<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  
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846 for Solid Waste

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production



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2ee 05/19/25  
CERTIFIED REFERENCE MATERIAL  
20 vial

## Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0222076

**Description :** 8260B Acetates Mix  
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

### CERTIFIED VALUES

| Elution Order | Compound          | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Methyl acetate    | 79-20-9  | SHBR1889    | 99%    | 2,004.0 µg/mL               | +/- 69.2674                            |
| 2             | Vinyl acetate     | 108-05-4 | RD240423RSR | 99%    | 2,010.0 µg/mL               | +/- 69.4748                            |
| 3             | Ethyl acetate     | 141-78-6 | SHBS3323    | 99%    | 2,019.3 µg/mL               | +/- 69.7974                            |
| 4             | Isopropyl acetate | 108-21-4 | BCCG7069    | 99%    | 2,008.0 µg/mL               | +/- 69.4057                            |
| 5             | Propyl acetate    | 109-60-4 | P8XLN       | 99%    | 2,008.0 µg/mL               | +/- 69.4057                            |
| 6             | Butyl acetate     | 123-86-4 | SHBR2024    | 99%    | 2,008.0 µg/mL               | +/- 69.4057                            |
| 7             | Amyl acetate      | 628-63-7 | BCBT7442    | 99%    | 2,006.7 µg/mL               | +/- 69.3596                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



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Bellefonte, PA 16823-8812  
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www.restek.com

2ee 05/19/25  
CERTIFIED REFERENCE MATERIAL  
20 vial

## Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0222076

**Description :** 8260B Acetates Mix  
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

### CERTIFIED VALUES

| Elution Order | Compound          | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Methyl acetate    | 79-20-9  | SHBR1889    | 99%    | 2,004.0 µg/mL               | +/- 69.2674                            |
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\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



Rec 10/16/25 5:14p



## CERTIFIED WEIGHT REPORT

Part Number: 91980  
 Lot Number: 101625  
 Description: Acrolein

Solvent(s):  
 Water Lot# 041725Q

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101625 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101625 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 111625

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

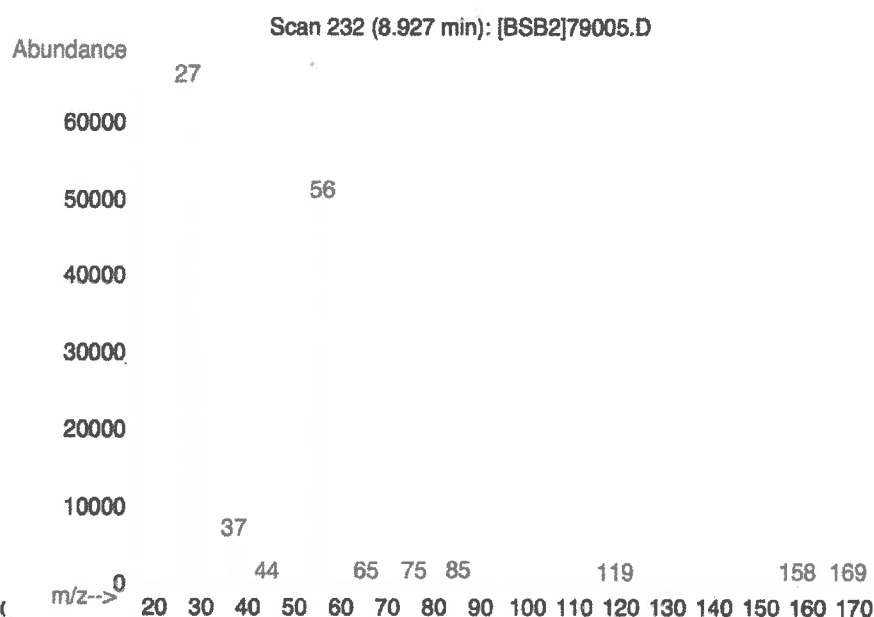
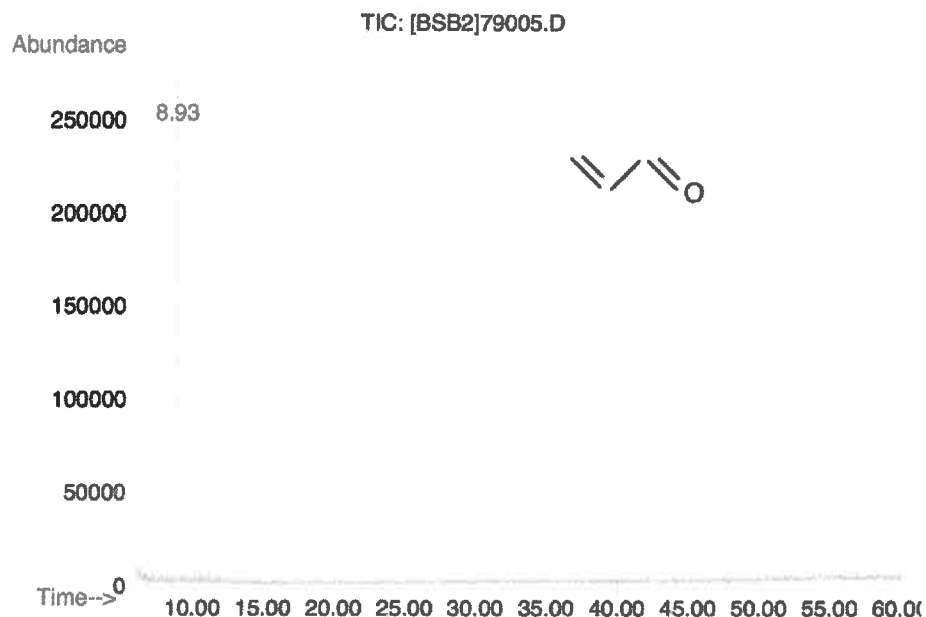
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15071-V15075

| 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          | 0.05180          | 5013.7              | 52.6                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
  - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
  - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
  - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
  - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025





Rec 10/16/25 5:14p



## CERTIFIED WEIGHT REPORT

Part Number: 91980  
Lot Number: 101625  
Description: Acrolein

Solvent(s):  
Water Lot# 041725Q

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101625 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101625 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

Expiration Date: 111625

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

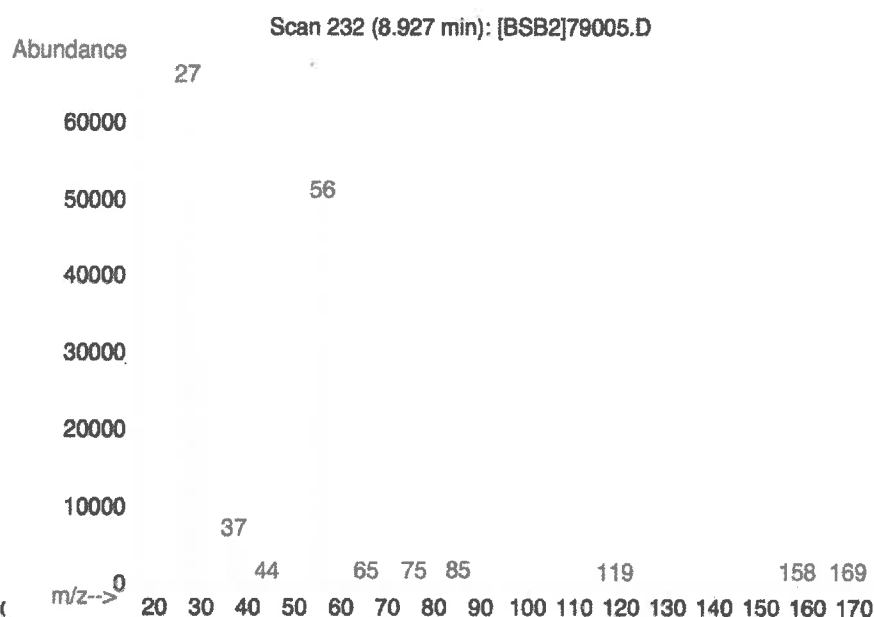
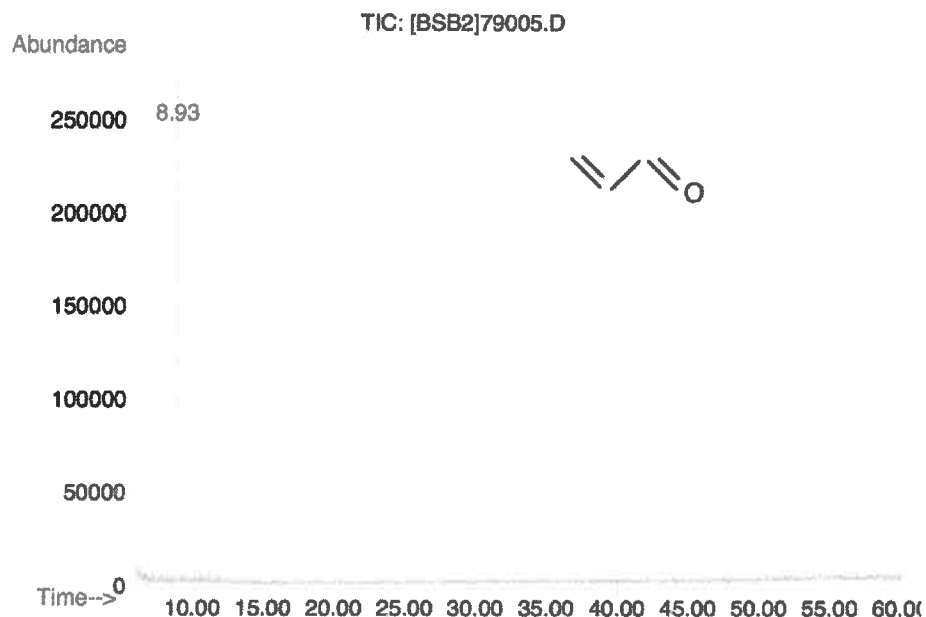
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15071-V15075

| 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          | 0.05180          | 5013.7              | 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.
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- Rev 1.0, 2/25/2025



Rec 10/16/25 5:14p



## CERTIFIED WEIGHT REPORT

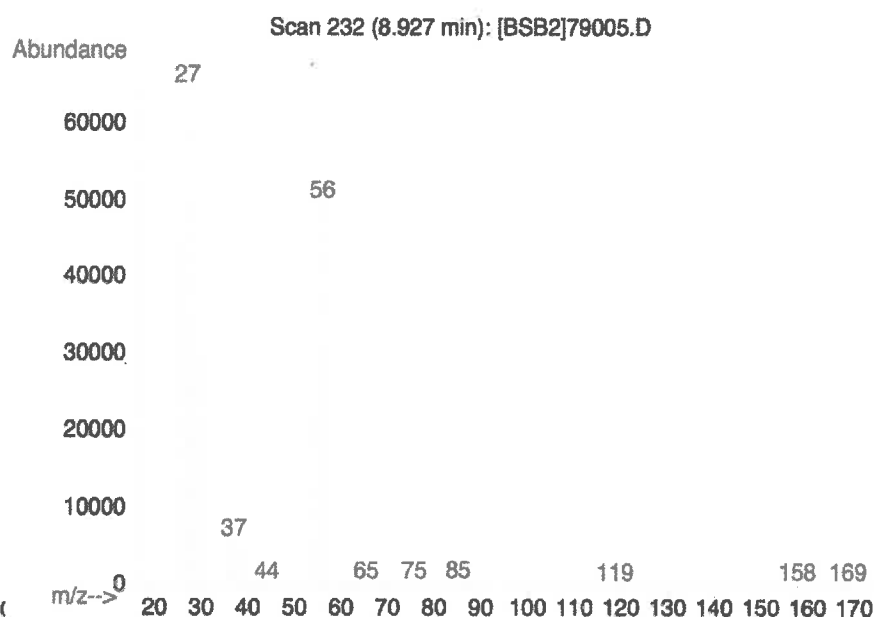
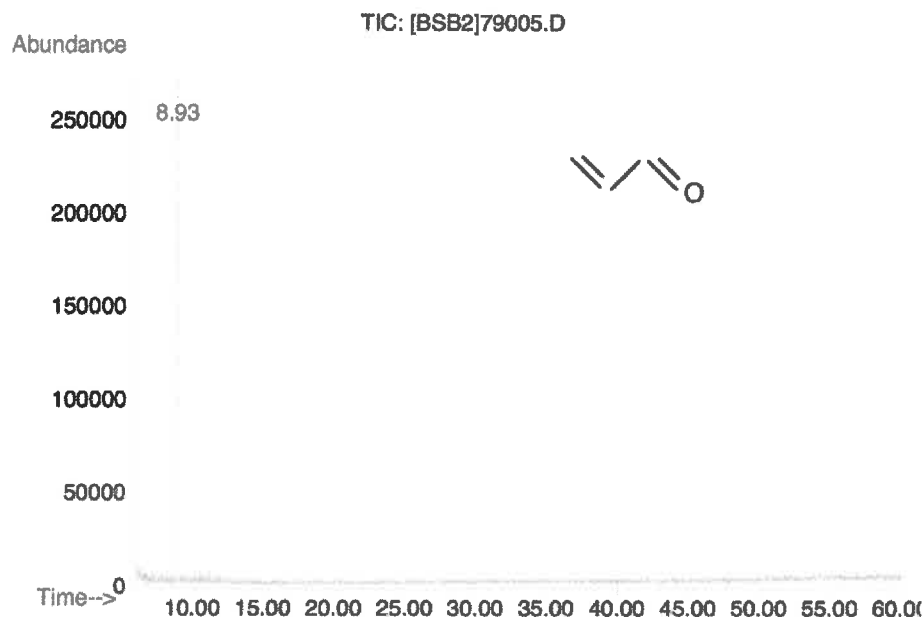
Part Number: 91980  
Lot Number: 101625  
Description: AcroleinSolvent(s):  
Water Lot# 041725QExpiration Date: 111625  
Recommended Storage: Refrigerate (2°C to 8°C)  
Nominal Concentration (µg/mL): 5000  
NIST Test ID#: 6UTB5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

|                |                  |        |
|----------------|------------------|--------|
|                |                  | 101625 |
| Formulated By: | Prashant Chauhan | DATE   |
|                |                  | 101625 |
| Reviewed By:   | Pedro L. Rentas  | DATE   |

| Compound    | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |                |                 |
|-------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|--------------------------------------------------------|----------------|-----------------|
|             |     |            |                      |            |                    |                  |                  |                     |                                    | CAS#                                                   | OSHA PEL (TWA) | LD50            |
| 1. Acrolein | 5   | 103755V10F | 5000                 | 97         | 0.5                | 0.05166          | 0.05180          | 5013.7              | 52.6                               | 107-02-8                                               | 0.1 ppm        | ori-rat 46mg/kg |

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- Rev 1.0, 2/25/2025



# SHIPPING DOCUMENTS

## Packing List

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Golden, CO 80403

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Fax: +1-303-940-0043  
info@phenova.com  
www.phenova.com

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| Date       | Order # |
|------------|---------|
| 10/27/2025 | 333294  |



### Ship To

Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

*Received by: SJ*  
*10/29/2025 12:30*

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| PO2-3469      | 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-MET-SOIL      | SOIL/HW Trace Metals        | HW1025       | 7102-04B   |
| 1           | 1           | 0             | PT-CR6-SOIL      | SOIL/HW Hexavalent Chromium | HW1025       | 7102-05A2  |
| 1           | 1           | 0             | PT-CN-SOIL       | SOIL/HW Cyanide             | HW1025       | 7102-06    |
| 1           | 1           | 0             | PT-CORR-SOIL     | SOIL/HW Corrosivity/pH      | HW1025       | 7102-11    |
| 1           | 1           | 0             | PT-FP-SOIL       | SOIL/HW Flash Point         | HW1025       | 7102-10    |
| 1           | 1           | 0             | PT-AN-SOIL       | SOIL/HW Anions              | HW1025       | 7102-08    |
| 1           | 1           | 0             | PT-NUT-SOIL      | SOIL/HW Nutrients           | HW1025       | 7102-09    |
| 1           | 1           | 0             | PT-SOL-SOIL      | SOIL/HW Solids              | HW1025       | 7102-31    |
| 1           | 1           | 0             | PT-NO2-SOIL      | SOIL/HW Nitrite as N        | HW1025       | 7102-71    |
| 1           | 1           | 0             | PT-GAS-SOIL      | SOIL/HW Gasoline            | HW1025       | 7102-96    |
| 1           | 1           | 0             | PT-DIES-SOIL     | SOIL/HW Diesel in Soil      | HW1025       | 7102-100   |
| 1           | 1           | 0             | PT-OGR-SOIL      | SOIL/HW Oil and Grease      | HW1025       | 7102-94B   |
| 1           | 1           | 0             | PT-VOA-SOIL      | SOIL/HW Volatiles           | HW1025       | 7102-12    |
| 1           | 1           | 0             | PT-BNA-SOIL      | SOIL/HW BNAs                | HW1025       | 7102-13    |
| 1           | 1           | 0             | PT-PEST-SOIL     | SOIL/HW Pesticides          | HW1025       | 7102-14    |
| 1           | 1           | 0             | PT-CHLR-SOIL     | SOIL/HW Chlordane           | HW1025       | 7102-15    |
| 1           | 1           | 0             | PT-TXP-SOIL      | SOIL/HW Toxaphene           | HW1025       | 7102-16    |
| 1           | 1           | 0             | PT-PCB-SOIL      | SOIL/HW PCBs                | HW1025       | 7102-17    |
| 1           | 1           | 0             | PT-PCBO-SOIL     | SOIL/HW PCBs in Oil         | HW1025       | 7102-88    |
| 1           | 1           | 0             | PT-HERB-SOIL     | SOIL/HW Herbicides          | HW1025       | 7102-18    |
| 1           | 1           | 0             | PT-PAH-SOIL      | SOIL/HW PAHs                | HW1025       | 7102-22    |
| 1           | 1           | 0             | PT-TRIAZINE-SOIL | SOIL/HW Triazine Pesticides | HW1025       | 7102-106   |

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Golden, CO 80403

Tel: +1-303-940-0033  
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| Date       | Order # |
|------------|---------|
| 10/27/2025 | 333294  |



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Alliance Tech Group - Newark  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

Received by: SJ  
10/29/2025 12:30

| Customer PO # |             | Terms         | PT Acct #     | Customer #       | Ship Via      | F.O.B.     |
|---------------|-------------|---------------|---------------|------------------|---------------|------------|
| PO2-3469      |             | 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-NJEPH-SOIL | NJ EPH in SOIL   | HW1025        | 7102-105   |

### 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     |
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| Virginia        | 460312           |