

## Cover Page

**Order ID :** Q1495

**Project ID :** Transfer Station-SPDES

**Client :** Tully Environmental, Inc

**Lab Sample Number**

Q1495-01  
Q1495-02

**Client Sample Number**

001-WILLETS-PT-BLVD(MAR)  
002-35TH-AVE(MAR)

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: 3/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1495

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: PRADIP PRAJAPATI

Date: 03/12/2025

## LAB CHRONICLE

|                 |                          |                   |                        |
|-----------------|--------------------------|-------------------|------------------------|
| <b>OrderID:</b> | Q1495                    | <b>OrderDate:</b> | 3/5/2025 1:48:00 PM    |
| <b>Client:</b>  | Tully Environmental, Inc | <b>Project:</b>   | Transfer Station-SPDES |
| <b>Contact:</b> | Dean Devoe               | <b>Location:</b>  | I21,VOA Ref. #3 Water  |

| LabID    | ClientID                     | Matrix | Test     | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|------------------------------|--------|----------|--------|-------------|-----------|-----------|----------|
| Q1495-01 | 001-WILLETS-PT-BLV<br>D(MAR) | Water  | VOC-BTEX | 624.1  | 03/04/25    |           | 03/14/25  | 03/05/25 |
| Q1495-02 | 002-35TH-AVE(MAR)            | Water  | VOC-BTEX | 624.1  | 03/04/25    |           | 03/14/25  | 03/05/25 |





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

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

**SDG No.:** Q1495  
**Client:** Tully Environmental, Inc

| Sample ID                     | Client ID                                                    | Matrix | Parameter                   | Concentration | C | MDL  | RDL  | Units |
|-------------------------------|--------------------------------------------------------------|--------|-----------------------------|---------------|---|------|------|-------|
| <b>Client ID:</b><br>Q1495-01 | <b>001-WILLETS-PT-BLVD(MAR)</b><br>001-WILLETS-PT-BLVD Water |        | Toluene                     | 18.7          |   | 0.46 | 5.00 | ug/L  |
|                               |                                                              |        | <b>Total Voc :</b>          | 18.7          |   |      |      |       |
|                               |                                                              |        | <b>Total Concentration:</b> | 18.7          |   |      |      |       |
| <b>Client ID:</b><br>Q1495-02 | <b>002-35TH-AVE(MAR)</b><br>002-35TH-AVE(MAR) Water          |        | Toluene                     | 20.9          |   | 0.46 | 5.00 | ug/L  |
|                               |                                                              |        | <b>Total Voc :</b>          | 20.9          |   |      |      |       |
|                               |                                                              |        | <b>Total Concentration:</b> | 20.9          |   |      |      |       |



# QC SUMMARY

### Surrogate Summary

SDG No.: Q1495

Client: Tully Environmental, Inc

Analytical Method: SW624.1

| Lab Sample ID | Client ID                | Parameter             | Spike | Result | RecoveryQual | Limits |      |
|---------------|--------------------------|-----------------------|-------|--------|--------------|--------|------|
|               |                          |                       |       |        |              | Low    | High |
| Q1495-01      | 001-WILLETS-PT-BLVD(MAR) | 1,2-Dichloroethane-d4 | 30    | 32.5   | 108          | 91     | 110  |
|               |                          | Toluene-d8            | 30    | 29.5   | 98           | 91     | 112  |
|               |                          | 4-Bromofluorobenzene  | 30    | 29.2   | 97           | 63     | 112  |
| Q1495-02      | 002-35TH-AVE(MAR)        | 1,2-Dichloroethane-d4 | 30    | 32.0   | 107          | 91     | 110  |
|               |                          | Toluene-d8            | 30    | 29.9   | 100          | 91     | 112  |
|               |                          | 4-Bromofluorobenzene  | 30    | 29.9   | 100          | 63     | 112  |
| VX0314WBL01   | VX0314WBL01              | 1,2-Dichloroethane-d4 | 30    | 32.6   | 109          | 91     | 110  |
|               |                          | Toluene-d8            | 30    | 30.8   | 102          | 91     | 112  |
|               |                          | 4-Bromofluorobenzene  | 30    | 27.3   | 91           | 63     | 112  |
| VX0314WBS01   | VX0314WBS01              | 1,2-Dichloroethane-d4 | 30    | 33.0   | 110          | 91     | 110  |
|               |                          | Toluene-d8            | 30    | 30.9   | 103          | 91     | 112  |
|               |                          | 4-Bromofluorobenzene  | 30    | 30.8   | 103          | 63     | 112  |
| VX0314WBSD0   | VX0314WBSD01             | 1,2-Dichloroethane-d4 | 30    | 31.5   | 105          | 91     | 110  |
|               |                          | Toluene-d8            | 30    | 29.8   | 99           | 91     | 112  |
|               |                          | 4-Bromofluorobenzene  | 30    | 30.7   | 102          | 63     | 112  |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1495

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Datafile : VX045286.D

| Lab Sample ID | Parameter     | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits | RPD |
|---------------|---------------|-------|--------|------|-----|-----|------|-----|--------|-----|
|               |               |       |        |      |     |     |      |     | High   |     |
| VX0314WBS01   | Benzene       | 20    | 18.6   | ug/L | 93  |     |      | 65  | 135    |     |
|               | Toluene       | 20    | 19.1   | ug/L | 96  |     |      | 70  | 130    |     |
|               | Ethyl Benzene | 20    | 19.1   | ug/L | 96  |     |      | 60  | 140    |     |
|               | m/p-Xylenes   | 40    | 38.5   | ug/L | 96  |     |      | 87  | 111    |     |
|               | o-Xylene      | 20    | 19.3   | ug/L | 97  |     |      | 87  | 111    |     |

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

**SW-846**

**SDG No.:** Q1495

**Client:** Tully Environmental, Inc

**Analytical Method:** SW624.1

**Datafile :** VX045293.D

| Lab Sample ID | Parameter     | Spike | Result | Unit | Rec | RPD | Qual | Low | Limits<br>High | RPD |
|---------------|---------------|-------|--------|------|-----|-----|------|-----|----------------|-----|
| VX0314WBSD01  | Benzene       | 20    | 19.4   | ug/L | 97  |     |      | 65  | 135            | 20  |
|               | Toluene       | 20    | 18.7   | ug/L | 94  |     |      | 70  | 130            | 20  |
|               | Ethyl Benzene | 20    | 18.6   | ug/L | 93  |     |      | 60  | 140            | 20  |
|               | m/p-Xylenes   | 40    | 37.9   | ug/L | 95  |     |      | 87  | 111            | 20  |
|               | o-Xylene      | 20    | 18.4   | ug/L | 92  |     |      | 87  | 111            | 20  |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0314WBSD01

Lab Name: CHEMTECH

Contract: TULL01

Lab Code: CHEM Case No.: Q1495

SAS No.: Q1495 SDG NO.: Q1495

Lab File ID: VX045293.D

Lab Sample ID: VX0314WBSD01

Date Analyzed: 03/14/2025

Time Analyzed: 15:22

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

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 |
|-------------------|------------------|----------------|------------------|
| VX0314WBSD01      | VX0314WBSD01     | VX045293.D     | 03/14/2025       |

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0314WBL01

Lab Name: CHEMTECH

Contract: TULL01

Lab Code: CHEM Case No.: Q1495

SAS No.: Q1495 SDG NO.: Q1495

Lab File ID: VX045288.D

Lab Sample ID: VX0314WBL01

Date Analyzed: 03/14/2025

Time Analyzed: 11:40

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

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 |
|---------------------------|------------------|----------------|------------------|
| VX0314WBS01               | VX0314WBS01      | VX045286.D     | 03/14/2025       |
| 001-WILLETS-PT-BLVD (MAR) | Q1495-01         | VX045291.D     | 03/14/2025       |
| 002-35TH-AVE (MAR)        | Q1495-02         | VX045292.D     | 03/14/2025       |

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



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01  
Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG NO.: Q1495  
Lab File ID: VX045007.D BFB Injection Date: 02/21/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 09:31  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 21.2                 |
| 75  | 30.0 - 60.0% of mass 95            | 52.5                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.4                  |
| 173 | Less than 2.0% of mass 174         | 0.6 ( 0.8 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 74.5                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.5 ( 7.4 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 71.6 ( 96.2 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.6 ( 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:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDIC005         | VSTDIC005        | VX045008.D     | 02/21/2025       | 09:58            |
| VSTDIC020         | VSTDIC020        | VX045009.D     | 02/21/2025       | 10:21            |
| VSTDIC050         | VSTDIC050        | VX045010.D     | 02/21/2025       | 10:44            |
| VSTDIC100         | VSTDIC100        | VX045011.D     | 02/21/2025       | 11:07            |
| VSTDIC150         | VSTDIC150        | VX045012.D     | 02/21/2025       | 11:29            |





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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01  
Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG NO.: Q1495  
Lab File ID: VX045284.D BFB Injection Date: 03/14/2025  
Instrument ID: MSVOA\_X BFB Injection Time: 09:28  
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.8                 |
| 75  | 30.0 - 60.0% of mass 95            | 55.2                 |
| 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         | 0.8 ( 1.2 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 72.8                 |
| 175 | 5.0 - 9.0% of mass 174             | 5.4 ( 7.4 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 70.4 ( 96.7 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.7 ( 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:

| EPA<br>SAMPLE NO.         | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|---------------------------|------------------|----------------|------------------|------------------|
| VSTDCCC020                | VSTDCCC020       | VX045285.D     | 03/14/2025       | 10:17            |
| VX0314WBS01               | VX0314WBS01      | VX045286.D     | 03/14/2025       | 10:50            |
| VX0314WBL01               | VX0314WBL01      | VX045288.D     | 03/14/2025       | 11:40            |
| 001-WILLETS-PT-BLVD (MAR) | Q1495-01         | VX045291.D     | 03/14/2025       | 12:59            |
| 002-35TH-AVE (MAR)        | Q1495-02         | VX045292.D     | 03/14/2025       | 13:22            |
| VX0314WBSD01              | VX0314WBSD01     | VX045293.D     | 03/14/2025       | 15:22            |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01  
 Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG NO.: Q1495  
 Lab File ID: VX045285.D Date Analyzed: 03/14/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:17  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                            | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT #  | IS3<br>AREA # | RT #   |
|----------------------------|---------------|-------|---------------|-------|---------------|--------|
| 12 HOUR STD                | 16402         | 4.89  | 86549         | 6.75  | 77791         | 10.05  |
| UPPER LIMIT                | 32804         | 5.385 | 173098        | 7.251 | 155582        | 10.549 |
| LOWER LIMIT                | 8201          | 4.385 | 43274.5       | 6.251 | 38895.5       | 9.549  |
| EPA SAMPLE NO.             |               |       |               |       |               |        |
| 001-WILLETTS-PT-BLVD (MAR) | 16787         | 4.90  | 89621         | 6.76  | 84103         | 10.06  |
| 002-35TH-AVE (MAR)         | 16144         | 4.90  | 84818         | 6.76  | 76342         | 10.06  |
| VX0314WBL01                | 14558         | 4.89  | 75988         | 6.76  | 67387         | 10.06  |
| VX0314WBS01                | 16027         | 4.89  | 88526         | 6.76  | 80688         | 10.05  |
| VX0314WBSD01               | 15546         | 4.89  | 80769         | 6.75  | 76870         | 10.05  |

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01  
 Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG NO.: Q1495  
 Lab File ID: VX045285.D Date Analyzed: 03/14/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 10:17  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                           | IS4<br>AREA # | RT # |  |  |  |  |
|---------------------------|---------------|------|--|--|--|--|
| 12 HOUR STD               | 0             | 0    |  |  |  |  |
| UPPER LIMIT               | 0             |      |  |  |  |  |
| LOWER LIMIT               | 0             |      |  |  |  |  |
| EPA SAMPLE NO.            |               |      |  |  |  |  |
| 001-WILLETS-PT-BLVD (MAR) | 0             | 0.00 |  |  |  |  |
| 002-35TH-AVE (MAR)        | 0             | 0.00 |  |  |  |  |
| VX0314WBL01               | 0             | 0.00 |  |  |  |  |
| VX0314WBS01               | 0             | 0.00 |  |  |  |  |
| VX0314WBSD01              | 0             | 0.00 |  |  |  |  |

IS4 =

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:            | Tully Environmental, Inc |        |      | Date Collected: | 03/04/25 |    |  |
| Project:           | Transfer Station-SPDES   |        |      | Date Received:  | 03/05/25 |    |  |
| Client Sample ID:  | 001-WILLETS-PT-BLVD(MAR) |        |      | SDG No.:        | Q1495    |    |  |
| Lab Sample ID:     | Q1495-01                 |        |      | Matrix:         | Water    |    |  |
| Analytical Method: | E624.1                   |        |      | % Solid:        | 0        |    |  |
| Sample Wt/Vol:     | 5                        | Units: | mL   | Final Vol:      | 5000     | uL |  |
| Soil Aliquot Vol:  |                          |        | uL   | Test:           | VOC-BTEX |    |  |
| GC Column:         | DB-624UI                 | ID :   | 0.18 | Level :         | LOW      |    |  |
| Prep Method :      |                          |        |      |                 |          |    |  |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX045291.D        | 1         |           | 03/14/25 12:59 | VX031425      |

| CAS Number         | Parameter             | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|--------------------|-----------------------|-------|-----------|----------|------------|---------|
| TARGETS            |                       |       |           |          |            |         |
| 71-43-2            | Benzene               | 0.45  | U         | 0.45     | 5.00       | ug/L    |
| 108-88-3           | Toluene               | 18.7  |           | 0.46     | 5.00       | ug/L    |
| 100-41-4           | Ethyl Benzene         | 0.56  | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1        | m/p-Xylenes           | 1.30  | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6            | o-Xylene              | 0.67  | U         | 0.67     | 5.00       | ug/L    |
| SURROGATES         |                       |       |           |          |            |         |
| 17060-07-0         | 1,2-Dichloroethane-d4 | 32.4  |           | 91 - 110 | 108%       | SPK: 30 |
| 2037-26-5          | Toluene-d8            | 29.5  |           | 91 - 112 | 98%        | SPK: 30 |
| 460-00-4           | 4-Bromofluorobenzene  | 29.2  |           | 63 - 112 | 97%        | SPK: 30 |
| INTERNAL STANDARDS |                       |       |           |          |            |         |
| 74-97-5            | Bromochloromethane    | 16800 | 4.898     |          |            |         |
| 540-36-3           | 1,4-Difluorobenzene   | 89600 | 6.757     |          |            |         |
| 3114-55-4          | Chlorobenzene-d5      | 84100 | 10.055    |          |            |         |

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\_X\Data\VX031425\  
 Data File : VX045291.D  
 Acq On : 14 Mar 2025 12:59  
 Operator : JC/MD  
 Sample : Q1495-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(MAR)

Quant Time: Mar 15 03:58:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

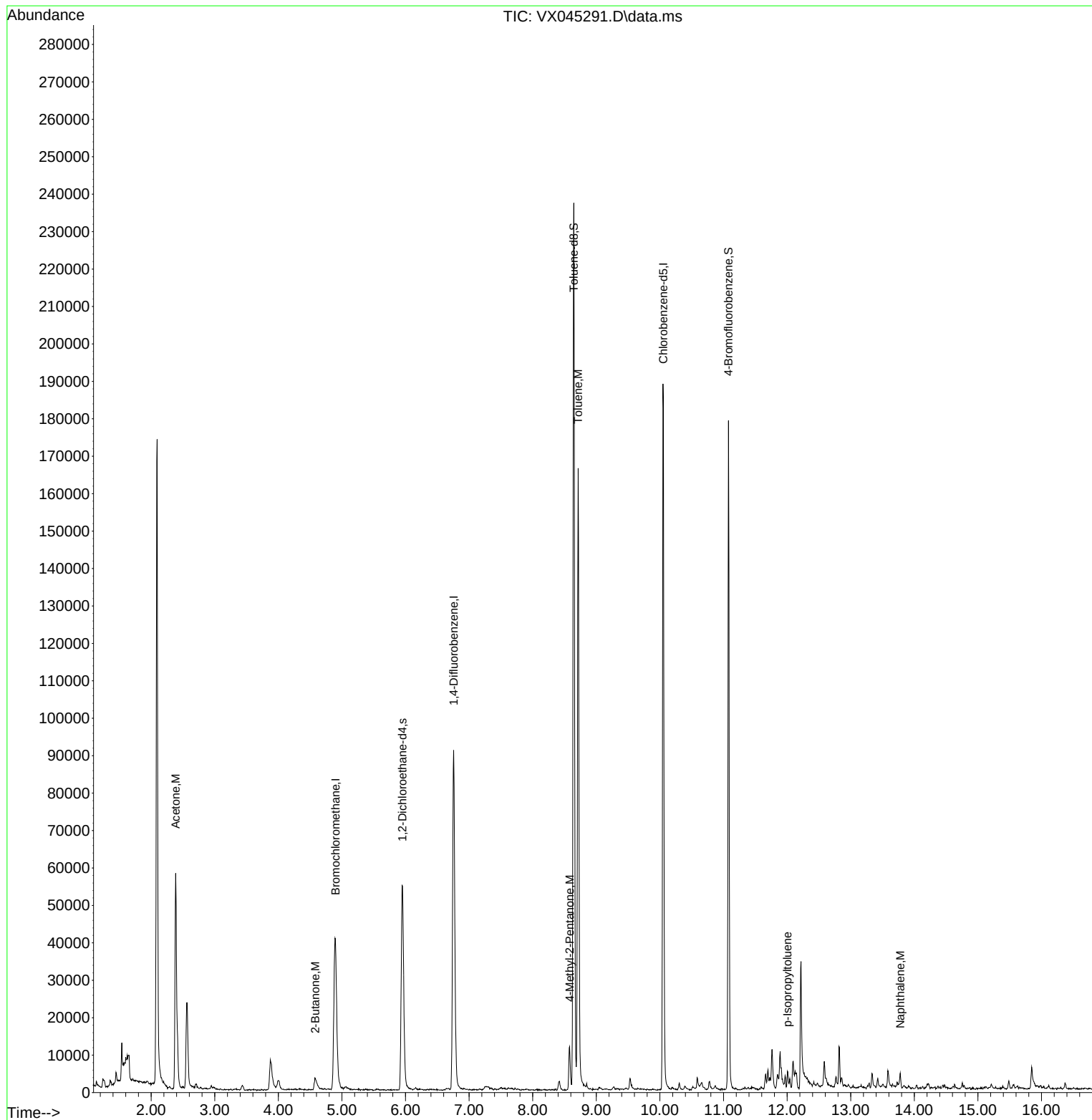
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.898  | 128   | 16787    | 30.000   | ug/l   | 0.01     |
| 28) 1,4-Difluorobenzene     | 6.757  | 114   | 89621    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 84103    | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 52904    | 32.448   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 108.167% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 45921    | 29.212   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 97.367%  |
| 63) Toluene-d8              | 8.647  | 98    | 137123   | 29.472   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.233%  |
| Target Compounds            |        |       |          |          |        |          |
| 15) Acetone                 | 2.386  | 58    | 18421    | 92.858   | ug/l   | 98       |
| 30) 2-Butanone              | 4.580  | 43    | 6941m    | 7.289    | ug/l   |          |
| 58) 4-Methyl-2-Pentanone    | 8.580  | 43    | 8007     | 4.185    | ug/l   | 95       |
| 62) Toluene                 | 8.714  | 91    | 104236   | 18.709   | ug/l   | 99       |
| 82) p-Isopropyltoluene      | 12.006 | 119   | 2030     | 0.417    | ug/l   | 98       |
| 91) Naphthalene             | 13.780 | 128   | 2471     | 0.478    | ug/l # | 96       |
| -----                       |        |       |          |          |        |          |

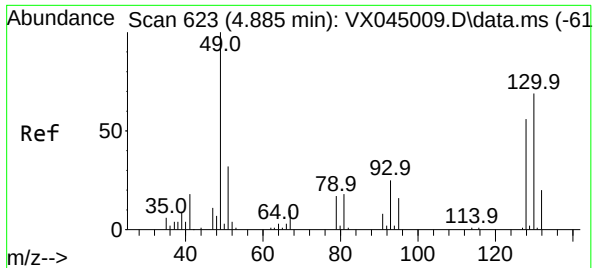
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
Data File : VX045291.D  
Acq On : 14 Mar 2025 12:59  
Operator : JC/MD  
Sample : Q1495-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(MAR)

Quant Time: Mar 15 03:58:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.898 min Scan# 61

Delta R.T. 0.013 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)

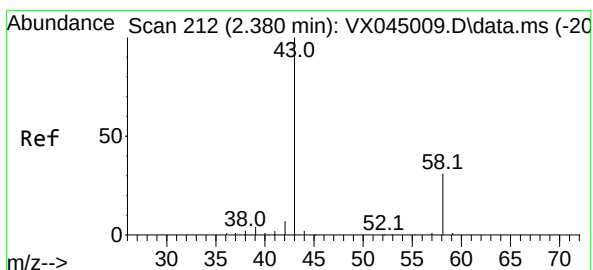
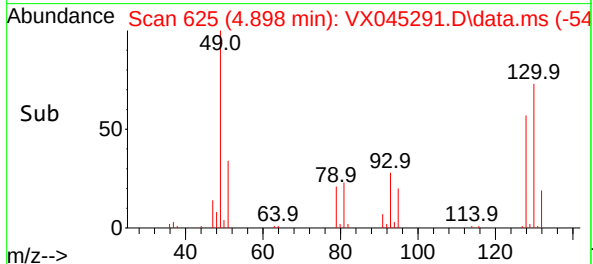
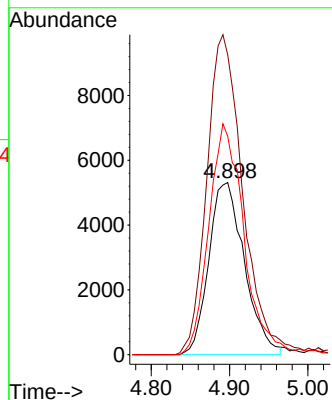
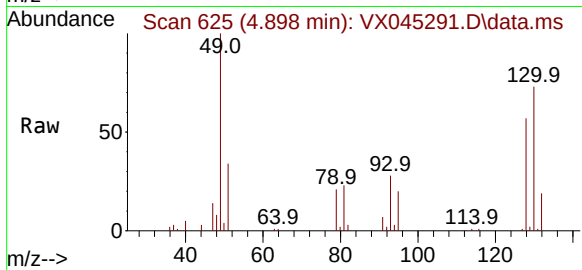
Tgt Ion:128 Resp: 16787

Ion Ratio Lower Upper

128 100

49 187.9 0.0 449.7

130 131.9 0.0 312.7



#15

Acetone

Concen: 92.858 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX045291.D

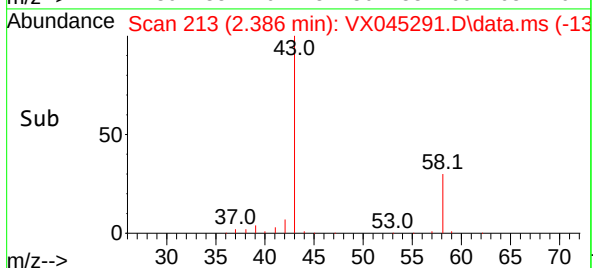
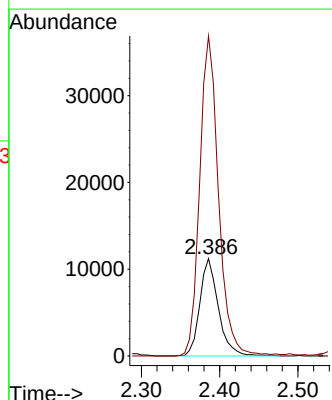
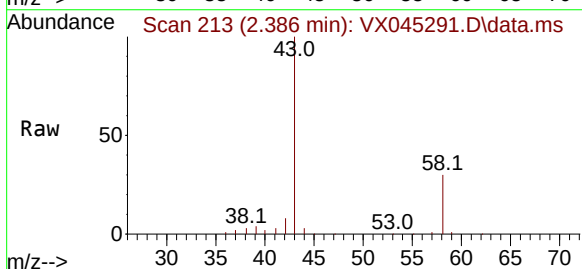
Acq: 14 Mar 2025 12:59

Tgt Ion: 58 Resp: 18421

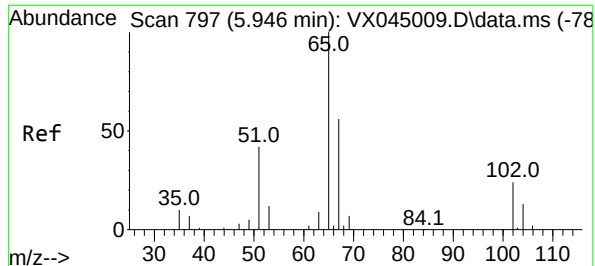
Ion Ratio Lower Upper

58 100

43 328.0 258.6 388.0







#27

1,2-Dichloroethane-d4

Concen: 32.448 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

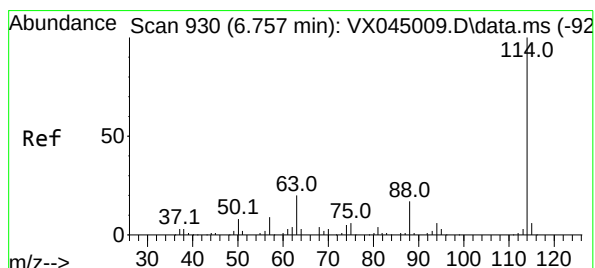
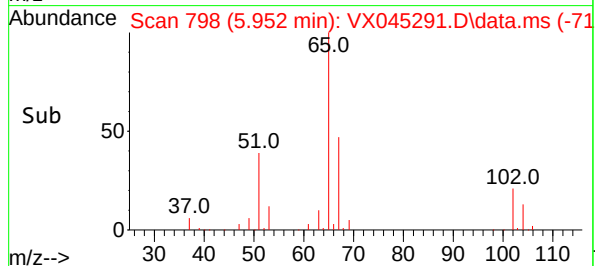
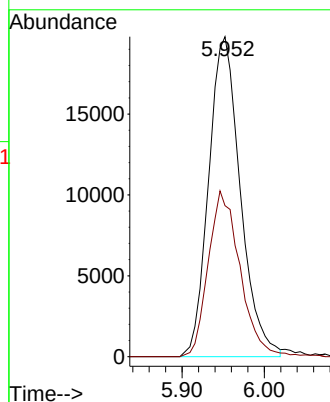
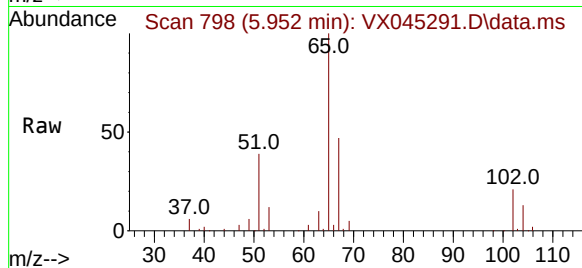
001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 65 Resp: 52904

Ion Ratio Lower Upper

65 100

67 51.9 42.6 64.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

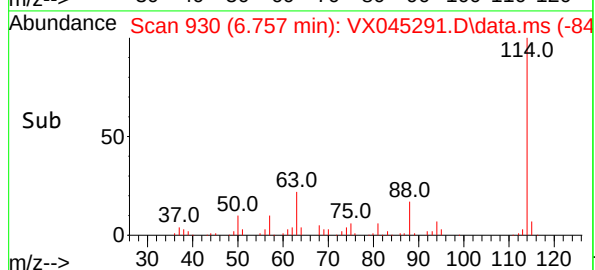
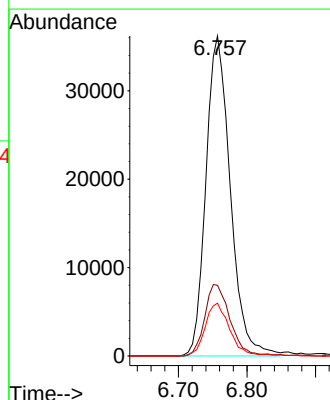
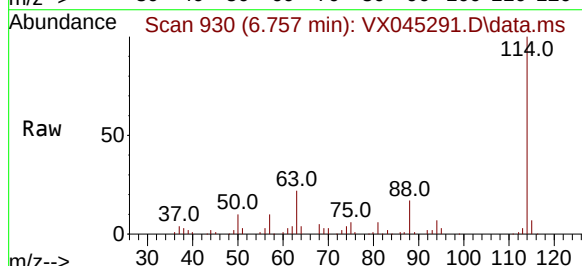
Tgt Ion: 114 Resp: 89621

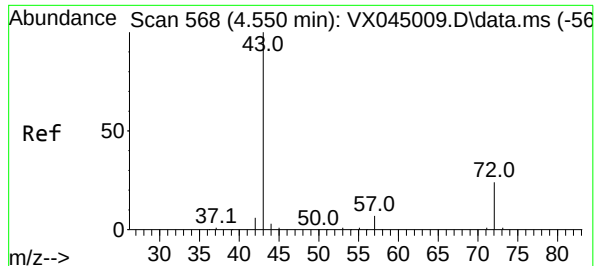
Ion Ratio Lower Upper

114 100

63 22.9 16.8 25.2

88 16.2 12.7 19.1





#30

2-Butanone

Concen: 7.289 ug/l m

RT: 4.580 min Scan# 5

Delta R.T. 0.030 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)

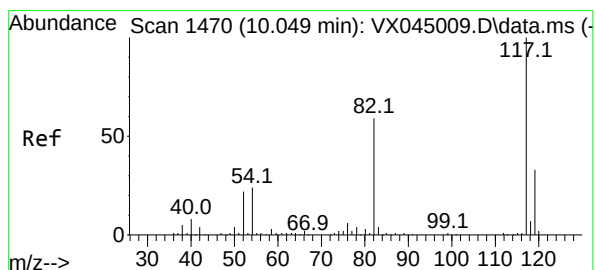
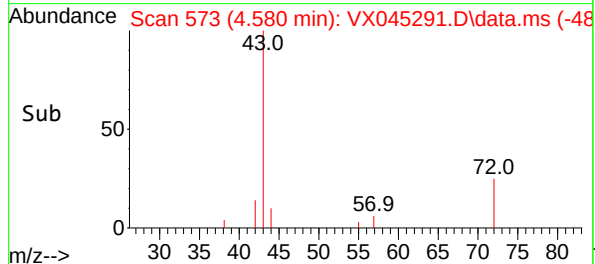
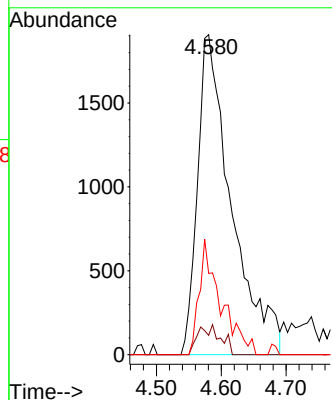
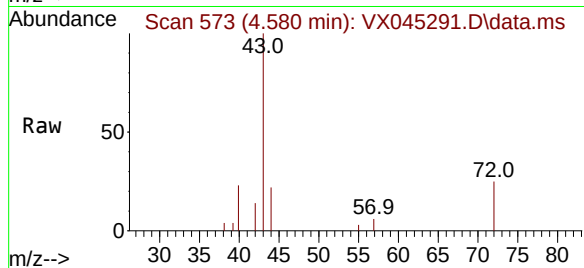
Tgt Ion: 43 Resp: 6941

Ion Ratio Lower Upper

43 100

57 3.1 6.2 9.2#

72 0.0 20.2 30.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

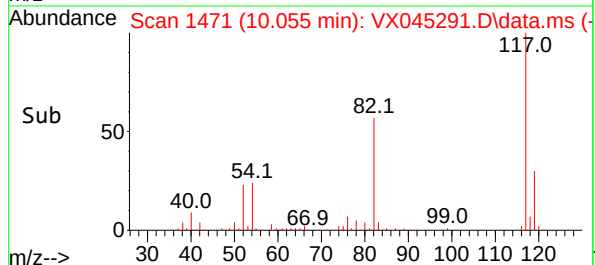
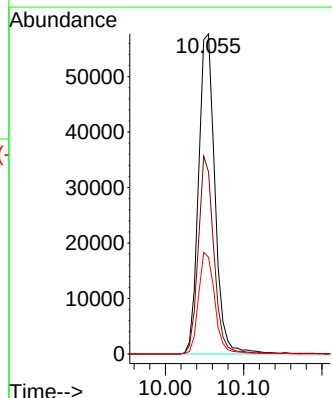
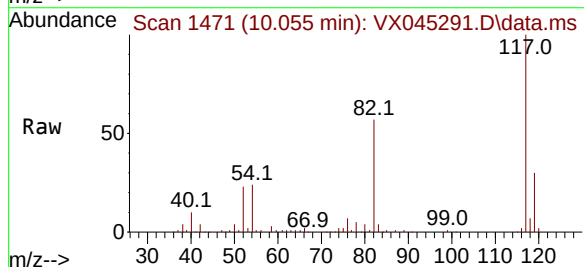
Tgt Ion: 117 Resp: 84103

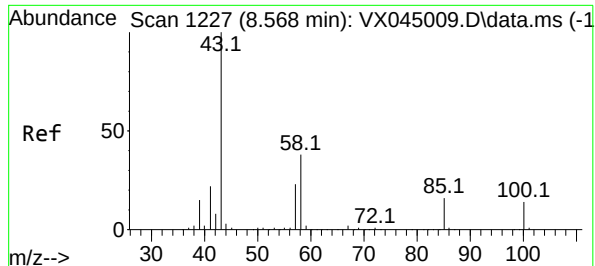
Ion Ratio Lower Upper

117 100

82 58.6 45.8 68.8

119 31.5 25.5 38.3





#58

4-Methyl-2-Pentanone

Concen: 4.185 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)

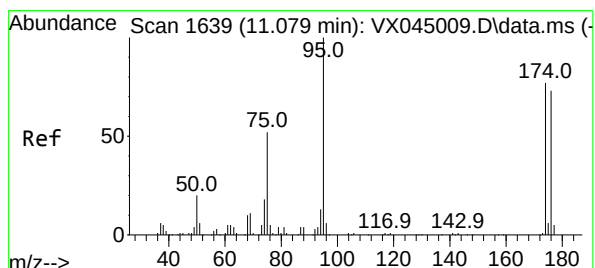
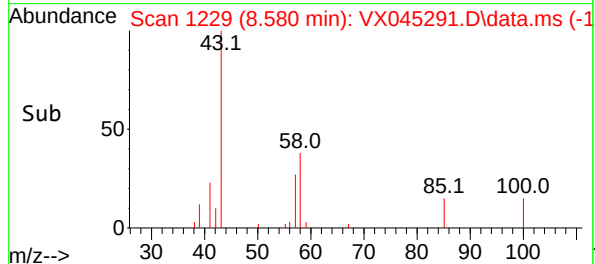
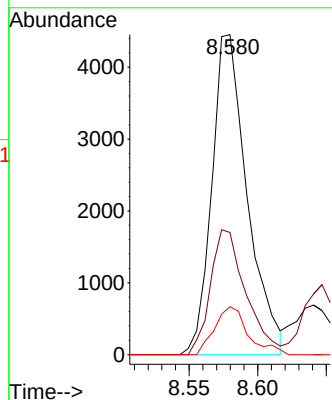
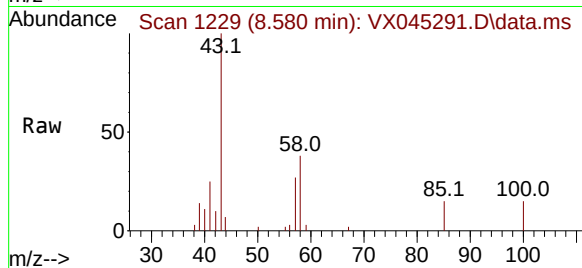
Tgt Ion: 43 Resp: 8007

Ion Ratio Lower Upper

43 100

58 39.0 29.5 44.3

85 13.3 12.9 19.3



#60

4-Bromofluorobenzene

Concen: 29.212 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

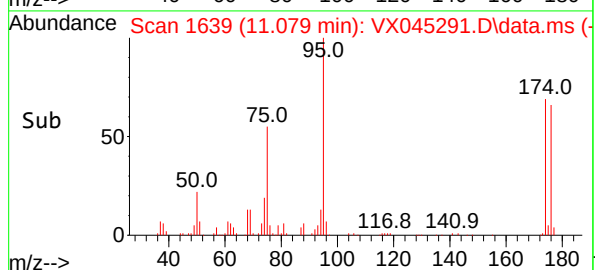
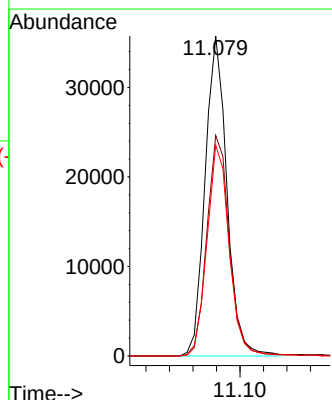
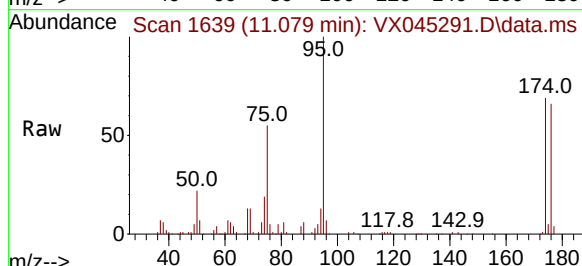
Tgt Ion: 95 Resp: 45921

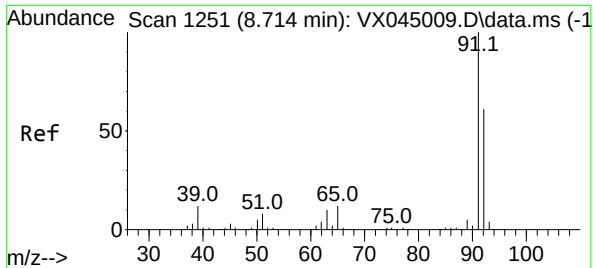
Ion Ratio Lower Upper

95 100

174 71.5 59.5 89.3

176 66.8 55.5 83.3





#62

Toluene

Concen: 18.709 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

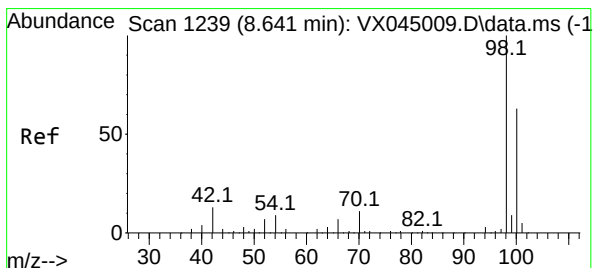
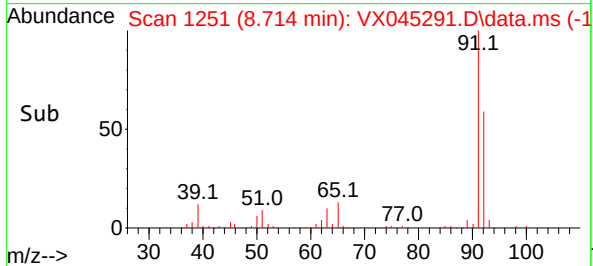
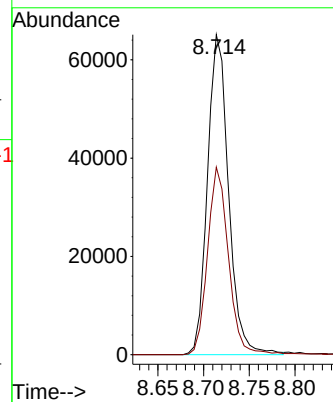
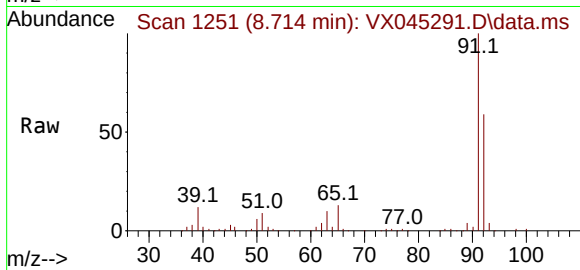
001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 91 Resp: 104236

Ion Ratio Lower Upper

91 100

92 58.1 46.9 70.3



#63

Toluene-d8

Concen: 29.472 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.006 min

Lab File: VX045291.D

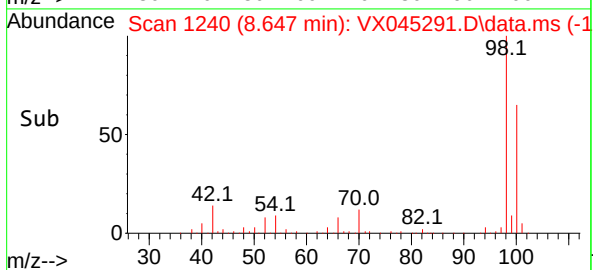
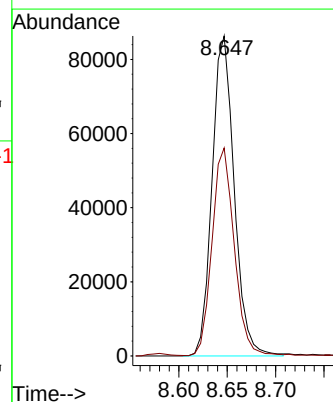
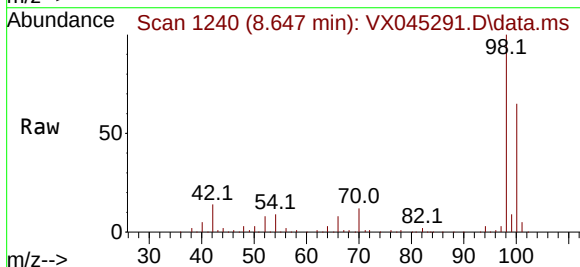
Acq: 14 Mar 2025 12:59

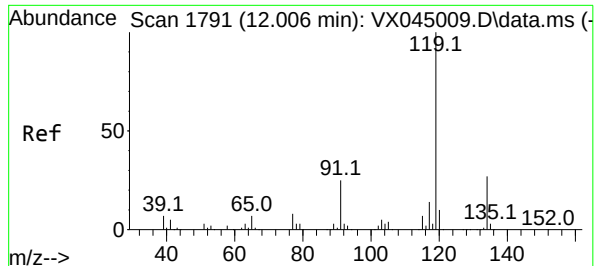
Tgt Ion: 98 Resp: 137123

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5





#82

p-Isopropyltoluene

Concen: 0.417 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)

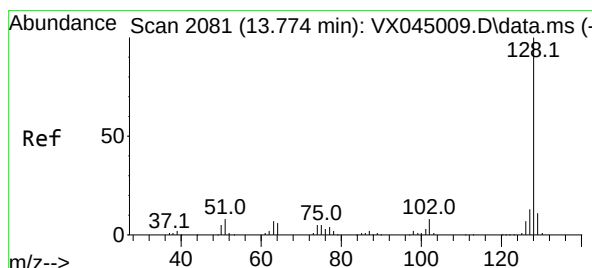
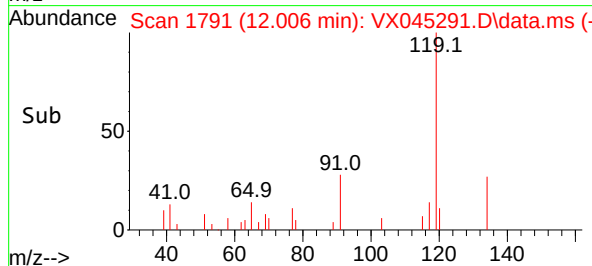
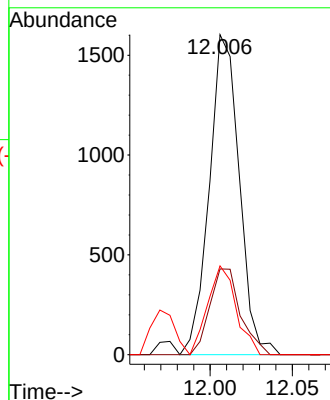
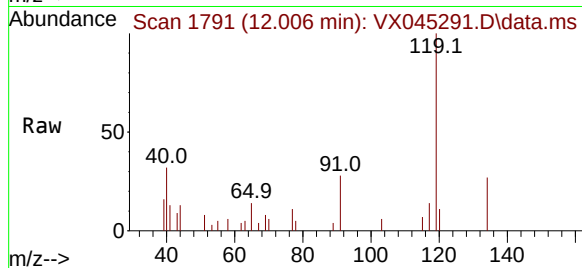
Tgt Ion:119 Resp: 2030

Ion Ratio Lower Upper

119 100

134 27.6 0.0 52.6

91 26.4 0.0 51.0



#91

Naphthalene

Concen: 0.478 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

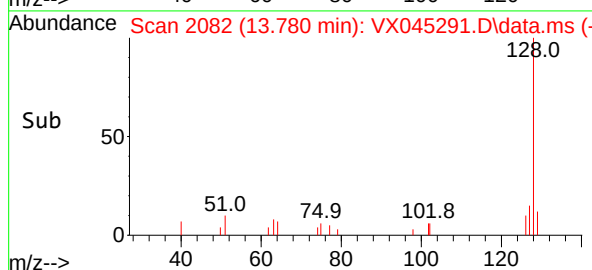
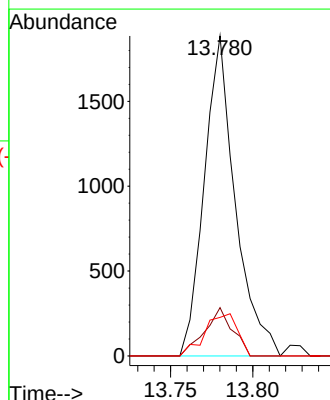
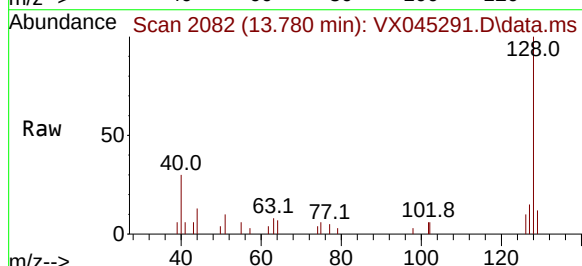
Tgt Ion:128 Resp: 2471

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 13.9 8.7 13.1#



## Report of Analysis

|                    |                          |        |      |                 |          |    |
|--------------------|--------------------------|--------|------|-----------------|----------|----|
| Client:            | Tully Environmental, Inc |        |      | Date Collected: | 03/04/25 |    |
| Project:           | Transfer Station-SPDES   |        |      | Date Received:  | 03/05/25 |    |
| Client Sample ID:  | 002-35TH-AVE(MAR)        |        |      | SDG No.:        | Q1495    |    |
| Lab Sample ID:     | Q1495-02                 |        |      | Matrix:         | Water    |    |
| Analytical Method: | E624.1                   |        |      | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 5                        | Units: | mL   | Final Vol:      | 5000     | uL |
| Soil Aliquot Vol:  |                          |        | uL   | Test:           | VOC-BTEX |    |
| GC Column:         | DB-624UI                 | ID :   | 0.18 | Level :         | LOW      |    |
| Prep Method :      |                          |        |      |                 |          |    |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX045292.D        | 1         |           | 03/14/25 13:22 | VX031425      |

| CAS Number         | Parameter             | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|--------------------|-----------------------|-------|-----------|----------|------------|---------|
| TARGETS            |                       |       |           |          |            |         |
| 71-43-2            | Benzene               | 0.45  | U         | 0.45     | 5.00       | ug/L    |
| 108-88-3           | Toluene               | 20.9  |           | 0.46     | 5.00       | ug/L    |
| 100-41-4           | Ethyl Benzene         | 0.56  | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1        | m/p-Xylenes           | 1.30  | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6            | o-Xylene              | 0.67  | U         | 0.67     | 5.00       | ug/L    |
| SURROGATES         |                       |       |           |          |            |         |
| 17060-07-0         | 1,2-Dichloroethane-d4 | 32.0  |           | 91 - 110 | 107%       | SPK: 30 |
| 2037-26-5          | Toluene-d8            | 29.9  |           | 91 - 112 | 100%       | SPK: 30 |
| 460-00-4           | 4-Bromofluorobenzene  | 29.9  |           | 63 - 112 | 100%       | SPK: 30 |
| INTERNAL STANDARDS |                       |       |           |          |            |         |
| 74-97-5            | Bromochloromethane    | 16100 | 4.898     |          |            |         |
| 540-36-3           | 1,4-Difluorobenzene   | 84800 | 6.757     |          |            |         |
| 3114-55-4          | Chlorobenzene-d5      | 76300 | 10.055    |          |            |         |

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\_X\Data\VX031425\  
 Data File : VX045292.D  
 Acq On : 14 Mar 2025 13:22  
 Operator : JC/MD  
 Sample : Q1495-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 002-35TH-AVE(MAR)

Quant Time: Mar 15 03:58:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

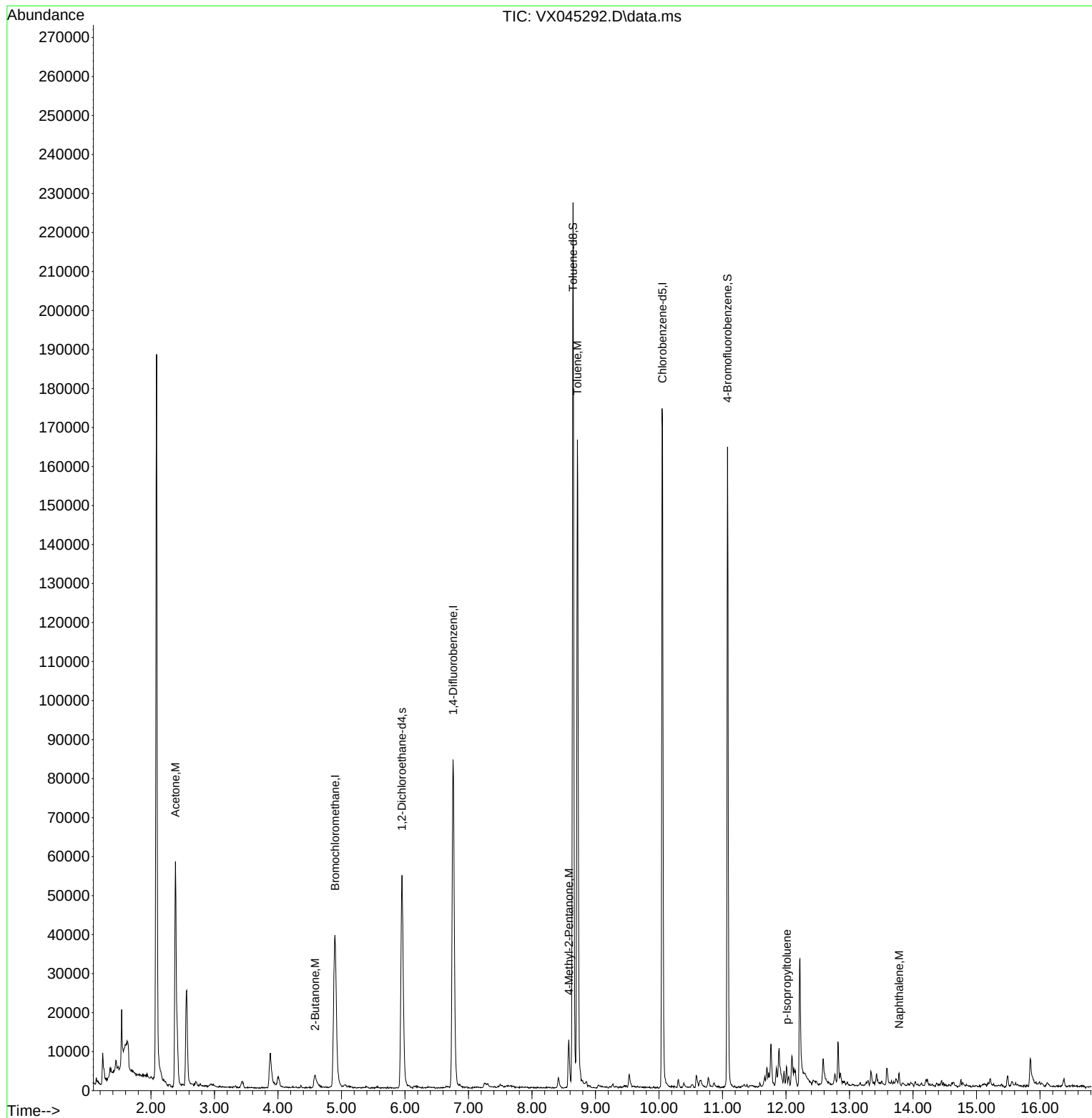
| Compound                    | R.T.   | QIon     | Response | Conc       | Units | Dev(Min) |
|-----------------------------|--------|----------|----------|------------|-------|----------|
| -----                       |        |          |          |            |       |          |
| Internal Standards          |        |          |          |            |       |          |
| 1) Bromochloromethane       | 4.898  | 128      | 16144    | 30.000     | ug/l  | 0.01     |
| 28) 1,4-Difluorobenzene     | 6.757  | 114      | 84818    | 30.000     | ug/l  | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117      | 76342    | 30.000     | ug/l  | 0.00     |
|                             |        |          |          |            |       |          |
| System Monitoring Compounds |        |          |          |            |       |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65       | 50209    | 32.021     | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 110 | Recovery | = 106.733% |       |          |
| 60) 4-Bromofluorobenzene    | 11.079 | 95       | 42702    | 29.926     | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range  | 63 - 112 | Recovery | = 99.767%  |       |          |
| 63) Toluene-d8              | 8.647  | 98       | 126300   | 29.905     | ug/l  | 0.00     |
| Spiked Amount 30.000        | Range  | 91 - 112 | Recovery | = 99.667%  |       |          |
|                             |        |          |          |            |       |          |
| Target Compounds            |        |          |          |            |       | Qvalue   |
| 15) Acetone                 | 2.386  | 58       | 18540    | 97.181     | ug/l  | 98       |
| 30) 2-Butanone              | 4.587  | 43       | 7511m    | 8.335      | ug/l  |          |
| 58) 4-Methyl-2-Pentanone    | 8.580  | 43       | 8093     | 4.660      | ug/l  | 98       |
| 62) Toluene                 | 8.714  | 91       | 105892   | 20.939     | ug/l  | 98       |
| 82) p-Isopropyltoluene      | 12.012 | 119      | 2068     | 0.468      | ug/l  | 91       |
| 91) Naphthalene             | 13.780 | 128      | 2032     | 0.433      | ug/l  | 99       |
| -----                       |        |          |          |            |       |          |

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

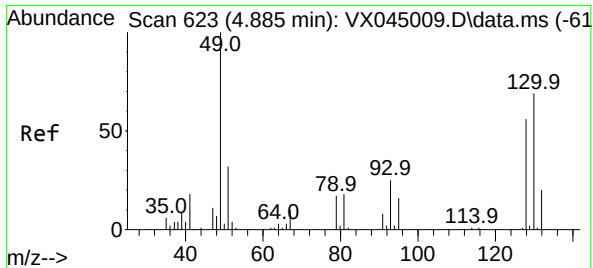
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
Data File : VX045292.D  
Acq On : 14 Mar 2025 13:22  
Operator : JC/MD  
Sample : Q1495-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(MAR)

Quant Time: Mar 15 03:58:53 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration



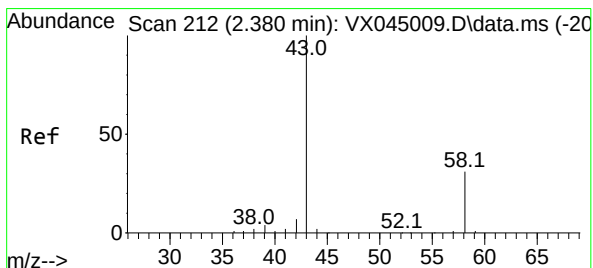
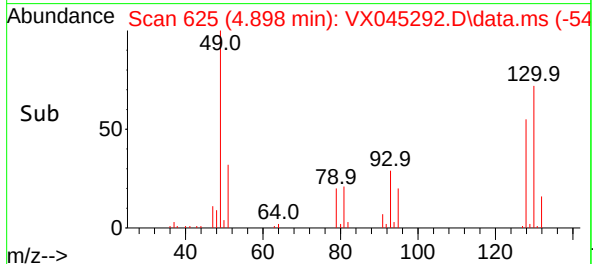
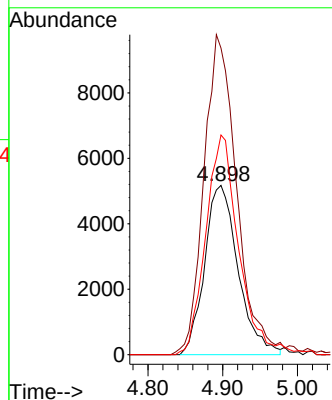
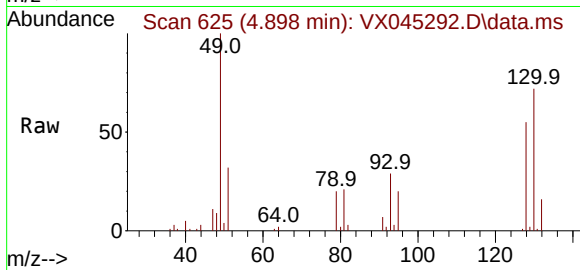




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.898 min Scan# 61  
Delta R.T. 0.013 min  
Lab File: VX045292.D  
Acq: 14 Mar 2025 13:22

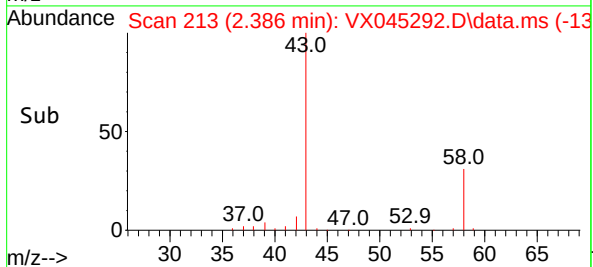
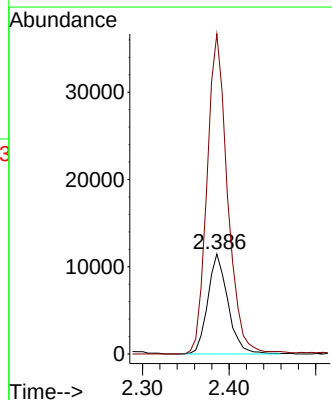
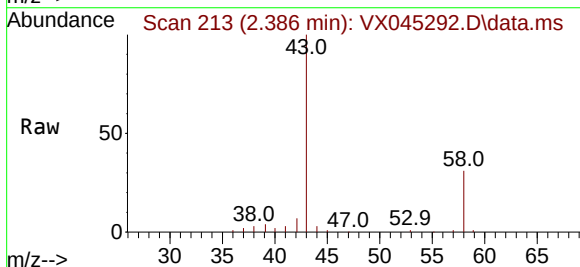
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(MAR)

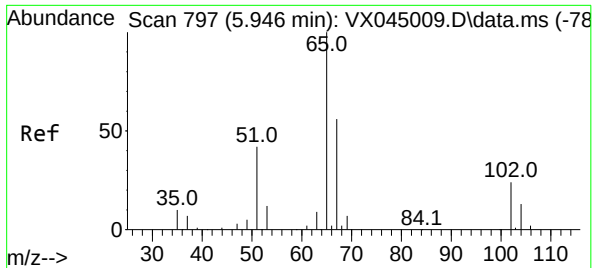
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 182.7 | 0.0   | 449.7 |
| 130     | 125.6 | 0.0   | 312.7 |



#15  
Acetone  
Concen: 97.181 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX045292.D  
Acq: 14 Mar 2025 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 320.1 | 258.6 | 388.0 |





#27

1,2-Dichloroethane-d4

Concen: 32.021 ug/l

RT: 5.952 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

Instrument :

MSVOA\_X

ClientSampleId :

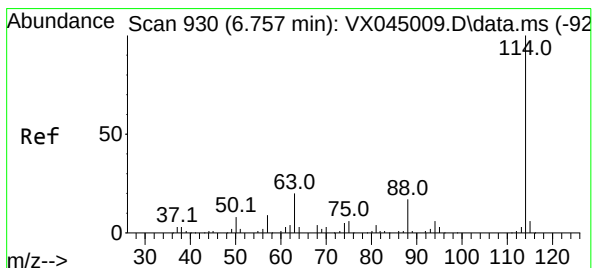
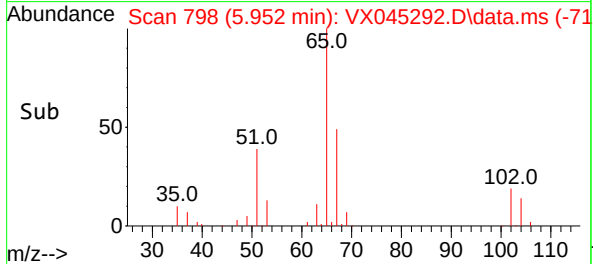
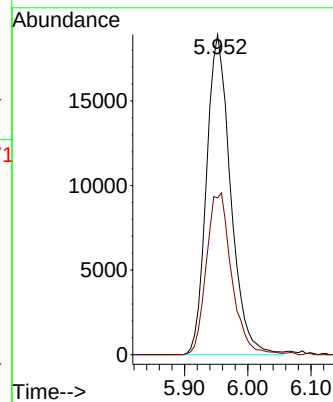
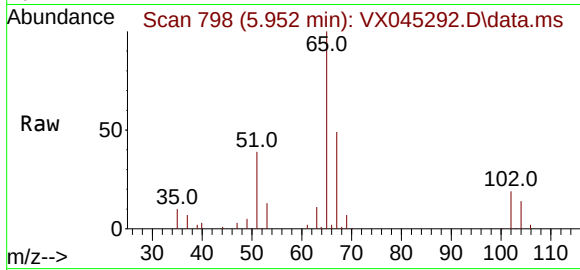
002-35TH-AVE(MAR)

Tgt Ion: 65 Resp: 50209

Ion Ratio Lower Upper

65 100

67 52.9 42.6 64.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

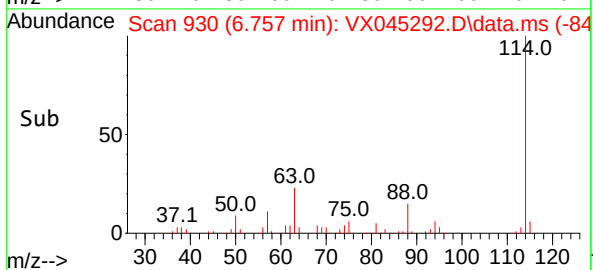
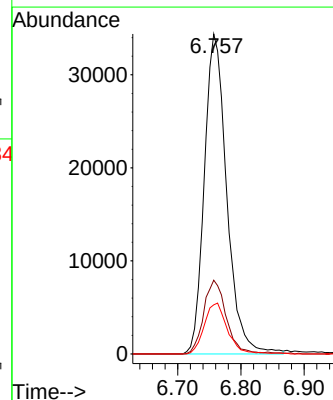
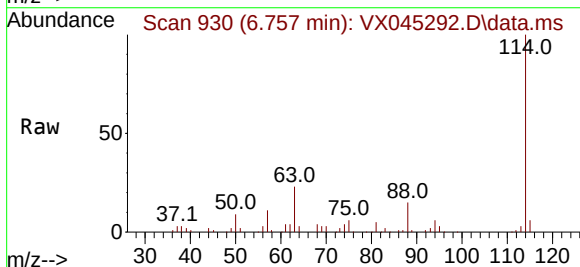
Tgt Ion: 114 Resp: 84818

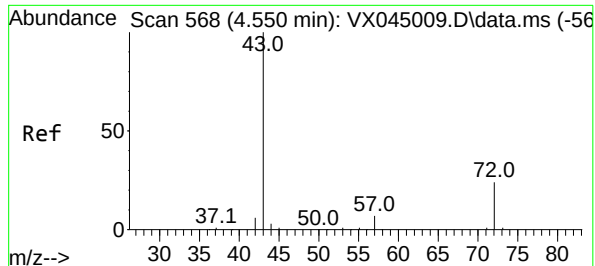
Ion Ratio Lower Upper

114 100

63 22.9 16.8 25.2

88 16.1 12.7 19.1





#30

2-Butanone

Concen: 8.335 ug/l m

RT: 4.587 min Scan# 5

Delta R.T. 0.037 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(MAR)

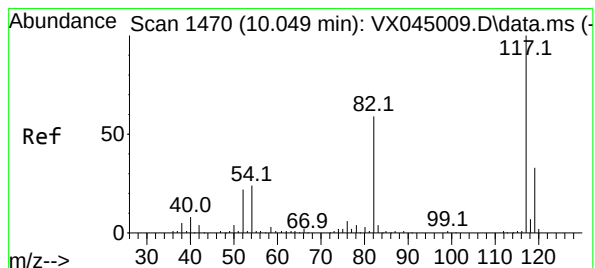
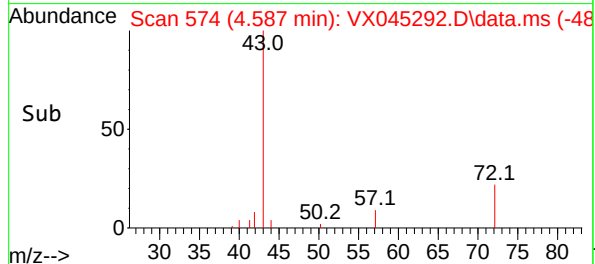
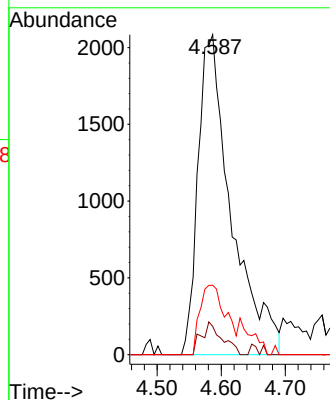
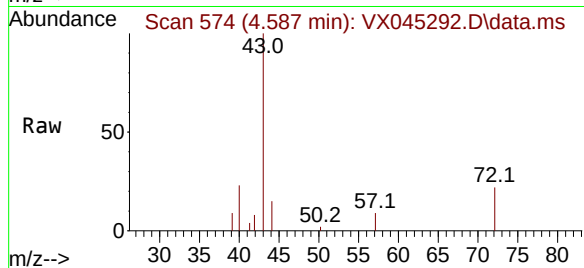
Tgt Ion: 43 Resp: 7511

Ion Ratio Lower Upper

43 100

57 1.8 6.2 9.2#

72 0.0 20.2 30.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

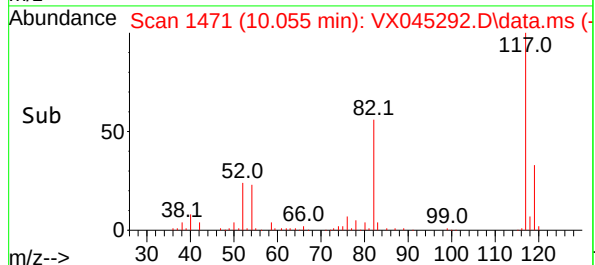
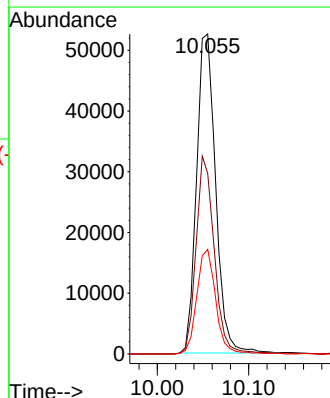
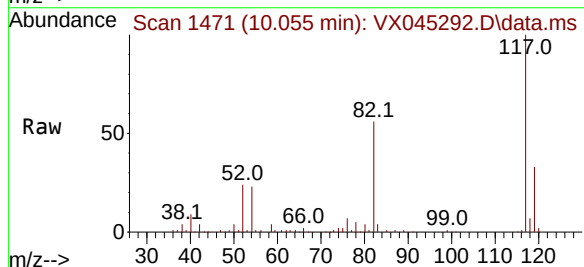
Tgt Ion: 117 Resp: 76342

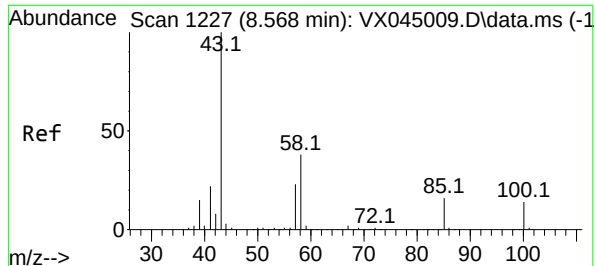
Ion Ratio Lower Upper

117 100

82 59.0 45.8 68.8

119 32.4 25.5 38.3





#58

4-Methyl-2-Pentanone

Concen: 4.660 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(MAR)

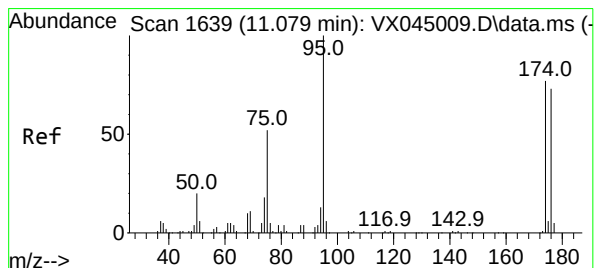
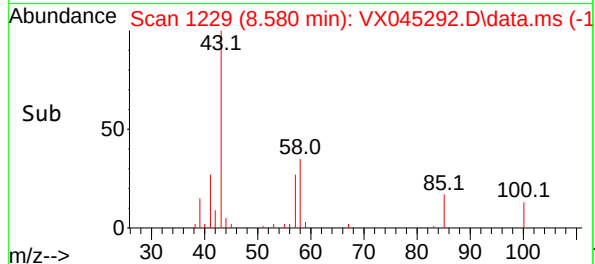
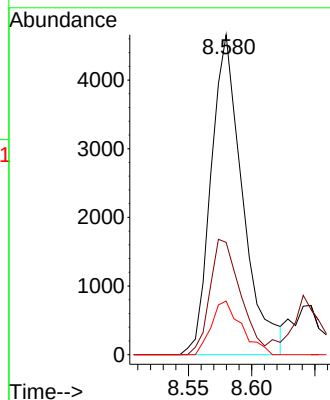
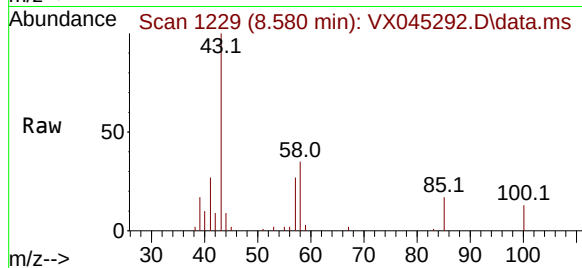
Tgt Ion: 43 Resp: 8093

Ion Ratio Lower Upper

43 100

58 34.9 29.5 44.3

85 16.0 12.9 19.3



#60

4-Bromofluorobenzene

Concen: 29.926 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

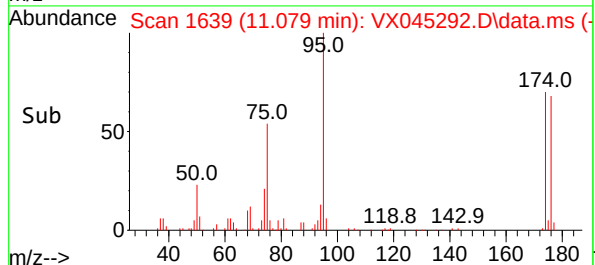
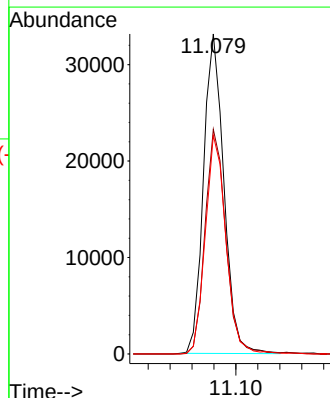
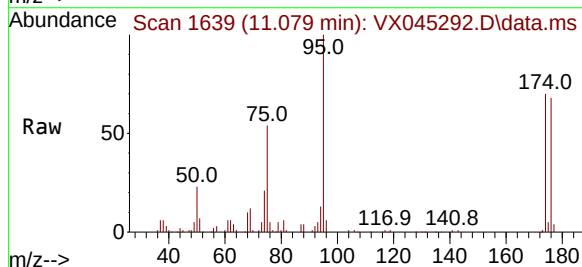
Tgt Ion: 95 Resp: 42702

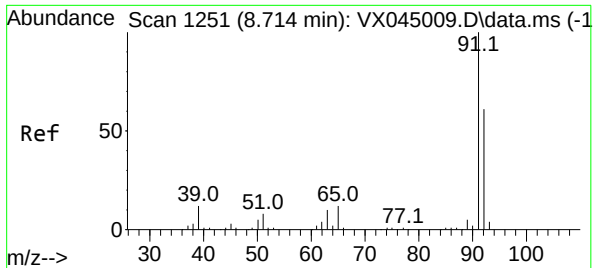
Ion Ratio Lower Upper

95 100

174 71.1 59.5 89.3

176 68.9 55.5 83.3

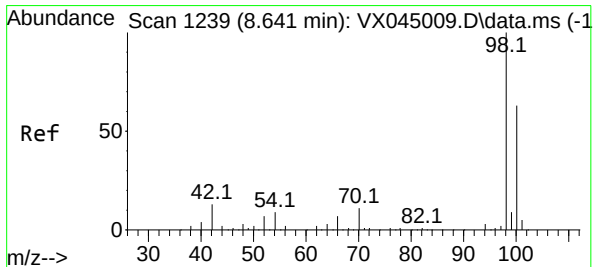
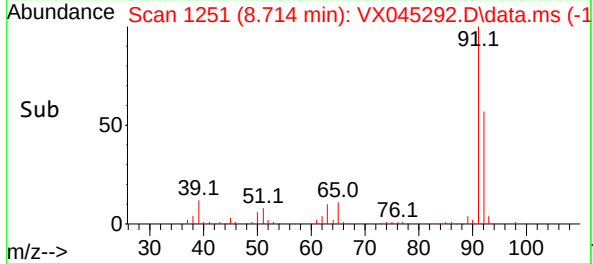
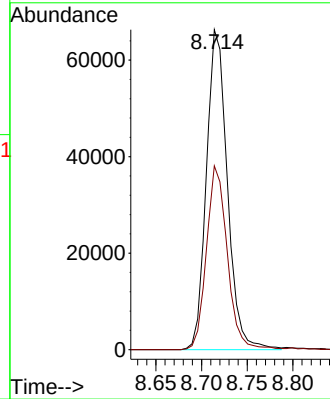
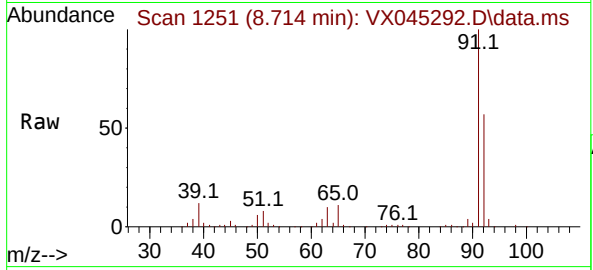




#62  
Toluene  
Concen: 20.939 ug/l  
RT: 8.714 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045292.D  
Acq: 14 Mar 2025 13:22

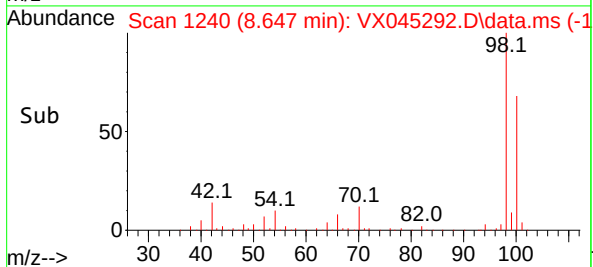
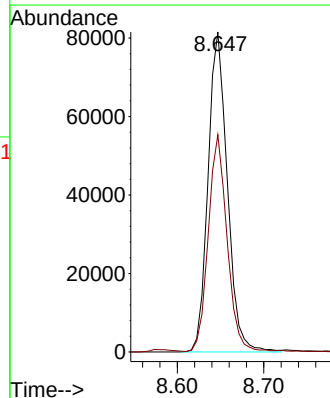
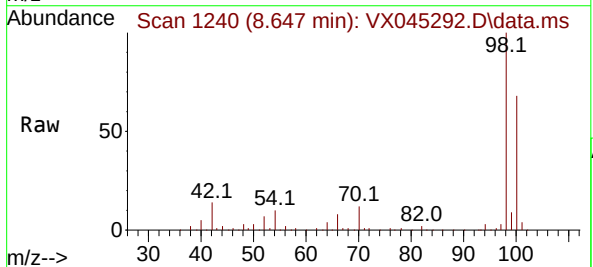
Instrument :  
MSVOA\_X  
ClientSampleId :  
002-35TH-AVE(MAR)

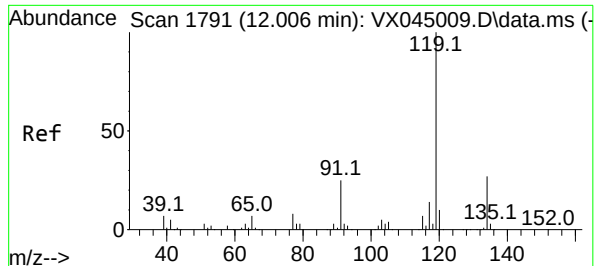
Tgt Ion: 91 Resp: 105892  
Ion Ratio Lower Upper  
91 100  
92 57.1 46.9 70.3



#63  
Toluene-d8  
Concen: 29.905 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VX045292.D  
Acq: 14 Mar 2025 13:22

Tgt Ion: 98 Resp: 126300  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.7 77.5





#82

p-Isopropyltoluene

Concen: 0.468 ug/l

RT: 12.012 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

Instrument :

MSVOA\_X

ClientSampleId :

002-35TH-AVE(MAR)

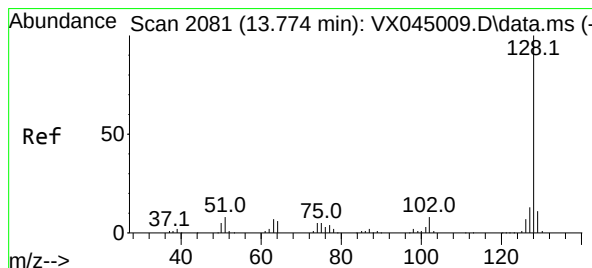
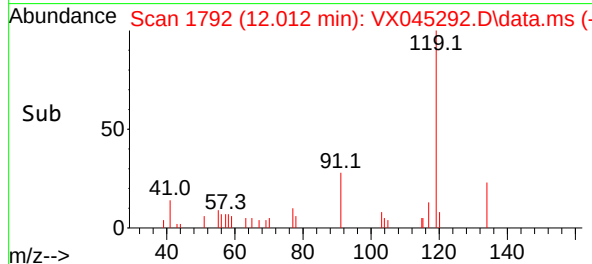
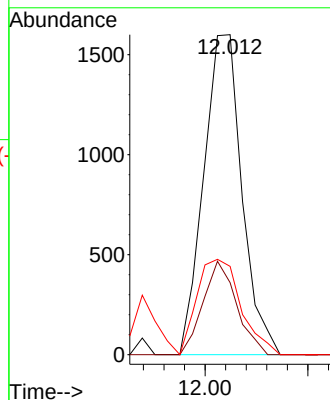
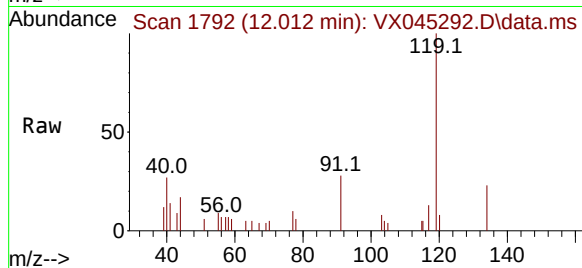
Tgt Ion:119 Resp: 2068

Ion Ratio Lower Upper

119 100

134 25.7 0.0 52.6

91 34.3 0.0 51.0



#91

Naphthalene

Concen: 0.433 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX045292.D

Acq: 14 Mar 2025 13:22

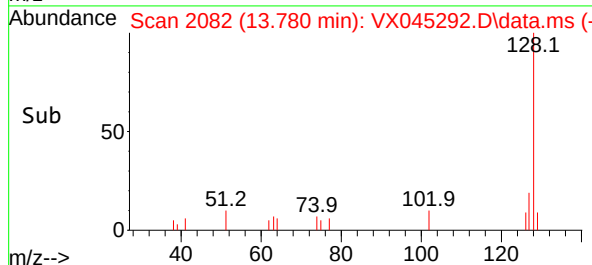
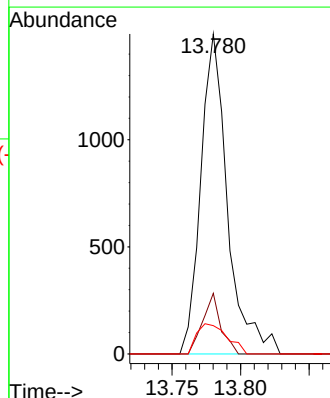
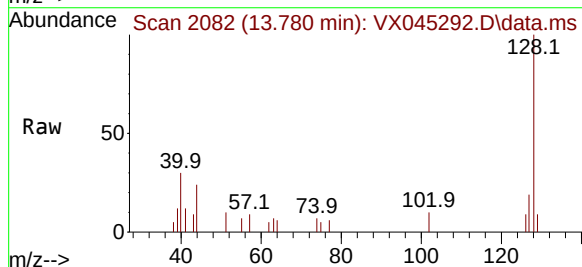
Tgt Ion:128 Resp: 2032

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 10.7 8.7 13.1





# CALIBRATION SUMMARY



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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TULL01  
 Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG No.: Q1495  
 Instrument ID: MSVOA\_X Calibration Date(s): 02/21/2025 02/21/2025  
 Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29  
 GC Column: DB-624UI ID: 0.18 (mm)

|                       |        |                     |        |                     |        |                     |       |       |
|-----------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|
| LAB FILE ID:          |        | RRF005 = VX045008.D |        | RRF020 = VX045009.D |        | RRF050 = VX045010.D |       |       |
|                       |        | RRF100 = VX045011.D |        | RRF150 = VX045012.D |        | RRF =               |       |       |
| COMPOUND              | RRF005 | RRF020              | RRF050 | RRF100              | RRF150 | RRF                 | RRF   | % RSD |
| Benzene               | 1.746  | 1.697               | 1.785  | 1.670               | 1.756  |                     | 1.731 | 2.7   |
| Toluene               | 2.015  | 1.952               | 1.995  | 1.956               | 2.019  |                     | 1.987 | 1.6   |
| Ethyl Benzene         | 2.094  | 2.100               | 2.220  | 2.178               | 2.286  |                     | 2.176 | 3.7   |
| m/p-Xylenes           | 0.785  | 0.816               | 0.823  | 0.799               | 0.831  |                     | 0.811 | 2.3   |
| o-Xylene              | 0.767  | 0.798               | 0.813  | 0.783               | 0.816  |                     | 0.795 | 2.6   |
| 1,2-Dichloroethane-d4 | 2.881  | 2.881               | 2.843  | 2.920               | 3.044  |                     | 2.914 | 2.7   |
| Toluene-d8            | 1.652  | 1.669               | 1.650  | 1.677               | 1.651  |                     | 1.660 | 0.7   |
| 4-Bromofluorobenzene  | 0.539  | 0.560               | 0.565  | 0.563               | 0.578  |                     | 0.561 | 2.5   |

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



Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 624X022125W.M  
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 Last Update : Sat Feb 22 01:06:36 2025  
 Response Via : Initial Calibration

## Calibration Files

5 =VX045008.D 20 =VX045009.D 50 =VX045010.D 100 =VX045011.D 150 =VX045012.D

| Compound |                     | 5              | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|----------|---------------------|----------------|-------|-------|-------|-------|-------|-------|
| -----    |                     |                |       |       |       |       |       |       |
| 1) I     | Bromochloromethane  | -----ISTD----- |       |       |       |       |       |       |
| 2) M     | Dichlorodifluoro... | 2.499          | 2.478 | 2.571 | 2.428 | 2.669 | 2.529 | 3.70  |
| 3) M     | Chloromethane       | 3.021          | 2.986 | 3.118 | 2.875 | 3.145 | 3.029 | 3.58  |
| 4) M     | Vinyl Chloride      | 2.916          | 2.831 | 2.918 | 2.825 | 3.124 | 2.923 | 4.14  |
| 5) M     | Bromomethane        | 1.116          | 0.976 | 0.995 | 0.944 | 1.056 | 1.017 | 6.74  |
| 6) M     | Chloroethane        | 1.821          | 1.663 | 1.752 | 1.466 | 1.212 | 1.583 | 15.57 |
| 7) M     | Trichlorofluorom... | 3.982          | 3.712 | 3.968 | 3.809 | 4.170 | 3.928 | 4.48  |
| 8) T     | Diethyl Ether       | 1.506          | 1.429 | 1.478 | 1.436 | 1.582 | 1.486 | 4.17  |
| 9)       | 1,1,2-Trichlorot... | 2.377          | 2.192 | 2.362 | 2.241 | 2.493 | 2.333 | 5.11  |
| 10) M    | 1,1-Dichloroethene  | 2.200          | 2.142 | 2.300 | 2.262 | 2.491 | 2.279 | 5.83  |
| 11)      | Methyl Iodide       | 1.920          | 2.177 | 2.788 | 2.801 | 3.210 | 2.579 | 20.21 |
| 12)      | Methyl Acetate      | 2.518          | 2.471 | 2.689 | 2.611 | 2.942 | 2.646 | 7.02  |
| 13) M    | Acrolein            | 0.504          | 0.473 | 0.527 | 0.540 | 0.608 | 0.530 | 9.46  |
| 14) M    | Acrylonitrile       | 1.204          | 1.243 | 1.348 | 1.284 | 1.384 | 1.293 | 5.70  |
| 15) M    | Acetone             | 0.371          | 0.352 | 0.354 | 0.338 | 0.358 | 0.355 | 3.40  |
| 16) M    | Carbon Disulfide    | 6.269          | 5.990 | 6.491 | 6.437 | 7.134 | 6.464 | 6.53  |
| 17)      | Allyl chloride      | 4.066          | 3.950 | 4.321 | 4.259 | 4.716 | 4.262 | 6.89  |
| 18) M    | Methylene Chloride  | 2.462          | 2.482 | 2.619 | 2.509 | 2.745 | 2.563 | 4.61  |
| 19) M    | trans-1,2-Dichlo... | 2.232          | 2.191 | 2.345 | 2.260 | 2.501 | 2.306 | 5.33  |
| 20) T    | Diisopropyl ether   | 7.764          | 7.784 | 8.372 | 8.138 | 8.897 | 8.191 | 5.73  |
| 21) M    | 1,1-Dichloroethane  | 4.525          | 4.343 | 4.508 | 4.473 | 4.929 | 4.555 | 4.84  |
| 22) M    | cis-1,2-Dichloro... | 2.740          | 2.632 | 2.729 | 2.716 | 2.997 | 2.763 | 4.98  |
| 23) M    | tert-Butyl Alcohol  | 0.440          | 0.425 | 0.475 | 0.435 | 0.481 | 0.451 | 5.63  |
| 24) M    | Methyl tert-Buty... | 7.103          | 7.021 | 7.516 | 7.382 | 8.169 | 7.438 | 6.13  |
| 25) M    | Chloroform          | 4.272          | 4.258 | 4.406 | 4.293 | 4.771 | 4.400 | 4.90  |
| 26)      | Cyclohexane         | 4.050          | 4.037 | 4.272 | 4.100 | 4.564 | 4.205 | 5.28  |
| 27) s    | 1,2-Dichloroetha... | 2.881          | 2.881 | 2.843 | 2.920 | 3.044 | 2.914 | 2.67  |
|          |                     |                |       |       |       |       |       |       |
| 28) I    | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |
| 29)      | 1,1-Dichloropropene | 0.555          | 0.537 | 0.563 | 0.532 | 0.572 | 0.552 | 3.11  |
| 30) M    | 2-Butanone          | 0.320          | 0.310 | 0.333 | 0.308 | 0.323 | 0.319 | 3.25  |
| 31)      | 2,2-Dichloropropane | 0.614          | 0.588 | 0.635 | 0.616 | 0.667 | 0.624 | 4.73  |
| 32) M    | 1,1,1-Trichloroe... | 0.674          | 0.644 | 0.686 | 0.644 | 0.695 | 0.669 | 3.51  |
| 33) M    | Carbon Tetrachlo... | 0.572          | 0.548 | 0.576 | 0.544 | 0.581 | 0.564 | 3.01  |
| 34) M    | Benzene             | 1.746          | 1.697 | 1.785 | 1.670 | 1.756 | 1.731 | 2.69  |
| 35)      | Methacrylonitrile   | 0.307          | 0.333 | 0.367 | 0.341 | 0.357 | 0.341 | 6.80  |
| 36) M    | 1,2-Dichloroethane  | 0.598          | 0.581 | 0.600 | 0.577 | 0.607 | 0.592 | 2.20  |
| 37) M    | Trichloroethene     | 0.407          | 0.400 | 0.412 | 0.390 | 0.415 | 0.405 | 2.47  |
| 38)      | Methylcyclohexane   | 0.747          | 0.700 | 0.763 | 0.724 | 0.770 | 0.741 | 3.89  |
| 39) M    | 1,2-Dichloropropane | 0.430          | 0.425 | 0.427 | 0.427 | 0.444 | 0.430 | 1.77  |
| 40)      | Dibromomethane      | 0.318          | 0.301 | 0.311 | 0.298 | 0.315 | 0.309 | 2.87  |
| 41) M    | Bromodichloromet... | 0.610          | 0.593 | 0.625 | 0.601 | 0.639 | 0.614 | 2.99  |
| 42) M    | Vinyl Acetate       | 1.136          | 1.190 | 1.304 | 1.244 | 1.311 | 1.237 | 6.06  |
| 43)      | Ethyl Acetate       | 0.552          | 0.578 | 0.610 | 0.606 | 0.642 | 0.598 | 5.72  |
| 44)      | Isopropyl Acetate   | 0.889          | 0.917 | 1.033 | 1.005 | 1.075 | 0.984 | 7.97  |
| 45) T    | 1,4-Dioxane         | 0.010          | 0.010 | 0.011 | 0.010 | 0.010 | 0.010 | 6.57  |
| 46)      | Methyl methacrylate | 0.421          | 0.456 | 0.510 | 0.495 | 0.530 | 0.482 | 9.09  |
| 47)      | n-amyl Acetate      | 0.721          | 0.803 | 0.922 | 0.862 | 0.962 | 0.854 | 11.20 |
| 48) M    | t-1,3-Dichloropr... | 0.527          | 0.530 | 0.616 | 0.618 | 0.666 | 0.591 | 10.28 |
| 49) T    | cis-1,3-Dichloro... | 0.614          | 0.635 | 0.691 | 0.682 | 0.726 | 0.670 | 6.72  |
| 50) M    | 1,1,2-Trichloroe... | 0.405          | 0.404 | 0.414 | 0.389 | 0.402 | 0.403 | 2.21  |
| 51)      | Ethyl methacrylate  | 0.543          | 0.586 | 0.676 | 0.653 | 0.709 | 0.633 | 10.70 |
| 52)      | 1,3-Dichloropropane | 0.703          | 0.704 | 0.724 | 0.678 | 0.719 | 0.706 | 2.53  |
| 53) M    | Dibromochloromet... | 0.427          | 0.436 | 0.457 | 0.440 | 0.468 | 0.445 | 3.76  |
| 54) M    | 1,2-Dibromoethane   | 0.397          | 0.401 | 0.423 | 0.397 | 0.427 | 0.409 | 3.59  |
| 55) M    | 2-Chloroethyl vi... | 0.301          | 0.314 | 0.339 | 0.326 | 0.346 | 0.325 | 5.64  |
| 56) M    | Bromoform           | 0.251          | 0.258 | 0.298 | 0.281 | 0.308 | 0.279 | 8.85  |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 624X022125W.M

|       |                     | -----ISTD----- |       |       |       |       |       |       |
|-------|---------------------|----------------|-------|-------|-------|-------|-------|-------|
| 57) I | Chlorobenzene-d5    |                |       |       |       |       |       |       |
| 58) M | 4-Methyl-2-Penta... | 0.633          | 0.680 | 0.731 | 0.668 | 0.701 | 0.682 | 5.37  |
| 59) M | 2-Hexanone          | 0.446          | 0.488 | 0.535 | 0.482 | 0.516 | 0.493 | 6.96  |
| 60) S | 4-Bromofluoroben... | 0.539          | 0.560 | 0.565 | 0.563 | 0.578 | 0.561 | 2.47  |
| 61) M | Tetrachloroethene   | 0.389          | 0.368 | 0.367 | 0.356 | 0.367 | 0.369 | 3.28  |
| 62) M | Toluene             | 2.015          | 1.952 | 1.995 | 1.956 | 2.019 | 1.987 | 1.61  |
| 63) S | Toluene-d8          | 1.652          | 1.669 | 1.650 | 1.677 | 1.651 | 1.660 | 0.75  |
| 64) M | Chlorobenzene       | 1.223          | 1.214 | 1.244 | 1.220 | 1.257 | 1.231 | 1.49  |
| 65)   | 1,1,1,2-Tetrachl... | 0.401          | 0.394 | 0.408 | 0.399 | 0.429 | 0.406 | 3.32  |
| 66) M | Ethyl Benzene       | 2.094          | 2.100 | 2.220 | 2.178 | 2.286 | 2.176 | 3.74  |
| 67) M | m/p-Xylenes         | 0.785          | 0.816 | 0.823 | 0.799 | 0.831 | 0.811 | 2.32  |
| 68) M | o-Xylene            | 0.767          | 0.798 | 0.813 | 0.783 | 0.816 | 0.795 | 2.58  |
| 69) M | Styrene             | 1.259          | 1.318 | 1.363 | 1.316 | 1.386 | 1.328 | 3.67  |
| 70)   | Isopropylbenzene    | 1.981          | 2.041 | 2.089 | 2.026 | 2.126 | 2.053 | 2.74  |
| 71) M | 1,1,2,2-Tetrachl... | 0.665          | 0.664 | 0.703 | 0.647 | 0.695 | 0.675 | 3.44  |
| 72)   | 1,2,3-Trichlorop... | 0.539          | 0.540 | 0.583 | 0.540 | 0.574 | 0.555 | 3.90  |
| 73)   | Bromobenzene        | 0.462          | 0.467 | 0.485 | 0.463 | 0.486 | 0.473 | 2.52  |
| 74)   | n-propylbenzene     | 2.281          | 2.387 | 2.539 | 2.437 | 2.569 | 2.443 | 4.78  |
| 75)   | 2-Chlorotoluene     | 1.465          | 1.468 | 1.503 | 1.431 | 1.516 | 1.477 | 2.27  |
| 76)   | 1,3,5-Trimethylb... | 1.638          | 1.691 | 1.750 | 1.654 | 1.733 | 1.693 | 2.85  |
| 77)   | t-1,4-Dichloro-2... | 0.133          | 0.160 | 0.199 | 0.203 | 0.239 | 0.187 | 22.02 |
| 78)   | 4-Chlorotoluene     | 1.580          | 1.618 | 1.686 | 1.623 | 1.723 | 1.646 | 3.50  |
| 79)   | tert-butylbenzene   | 1.628          | 1.703 | 1.779 | 1.667 | 1.753 | 1.706 | 3.61  |
| 80)   | 1,2,4-Trimethylb... | 1.616          | 1.705 | 1.768 | 1.653 | 1.739 | 1.696 | 3.65  |
| 81)   | sec-Butylbenzene    | 2.056          | 2.118 | 2.210 | 2.094 | 2.228 | 2.141 | 3.49  |
| 82)   | p-Isopropyltoluene  | 1.614          | 1.709 | 1.811 | 1.733 | 1.808 | 1.735 | 4.67  |
| 83) M | 1,3-Dichlorobenzene | 0.855          | 0.874 | 0.905 | 0.852 | 0.910 | 0.879 | 3.12  |
| 84) M | 1,4-Dichlorobenzene | 0.824          | 0.854 | 0.910 | 0.848 | 0.897 | 0.867 | 4.12  |
| 85)   | n-Butylbenzene      | 1.376          | 1.512 | 1.675 | 1.618 | 1.740 | 1.584 | 9.04  |
| 86) T | Hexachloroethane    | 0.264          | 0.282 | 0.322 | 0.314 | 0.349 | 0.306 | 10.94 |
| 87) M | 1,2-Dichlorobenzene | 0.863          | 0.868 | 0.894 | 0.815 | 0.872 | 0.863 | 3.36  |
| 88)   | 1,2-Dibromo-3-Ch... | 0.126          | 0.121 | 0.133 | 0.129 | 0.145 | 0.131 | 7.06  |
| 89)   | 1,2,4-Trichlorob... | 0.461          | 0.490 | 0.541 | 0.539 | 0.583 | 0.523 | 9.08  |
| 90)   | Hexachlorobutadiene | 0.217          | 0.209 | 0.213 | 0.206 | 0.221 | 0.213 | 2.76  |
| 91) M | Naphthalene         | 1.606          | 1.778 | 1.941 | 1.861 | 2.031 | 1.843 | 8.81  |
| 92)   | 1,2,3-Trichlorob... | 0.501          | 0.523 | 0.549 | 0.540 | 0.578 | 0.538 | 5.35  |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045008.D  
 Acq On : 21 Feb 2025 09:58  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

02/24/2025  
 Supervised By :Mahesh  
 Dadoda

Quant Time: Feb 22 00:46:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 4.885  | 128  | 19850    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.751  | 114  | 107647   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.049 | 117  | 98661    | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 27) 1,2-Dichloroethane-d4   | 5.946  | 65    | 57190    | 29.664   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 98.867% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 53212    | 28.855   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 96.200% |
| 63) Toluene-d8              | 8.641  | 98    | 163004   | 29.865   | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 99.533% |

|                              |       |     |        |        |        |        |
|------------------------------|-------|-----|--------|--------|--------|--------|
| Target Compounds             |       |     |        |        |        | Qvalue |
| 2) Dichlorodifluoromethane   | 1.167 | 85  | 8269   | 4.942  | ug/l   | 90     |
| 3) Chloromethane             | 1.295 | 50  | 9993   | 4.986  | ug/l   | 99     |
| 4) Vinyl Chloride            | 1.374 | 62  | 9648   | 4.989  | ug/l   | 97     |
| 5) Bromomethane              | 1.593 | 94  | 3693   | 5.486  | ug/l   | 95     |
| 6) Chloroethane              | 1.666 | 64  | 6026   | 5.753  | ug/l # | 88     |
| 7) Trichlorofluoromethane    | 1.874 | 101 | 13174  | 5.068  | ug/l   | 95     |
| 8) Diethyl Ether             | 2.130 | 74  | 4984   | 5.068  | ug/l   | 100    |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 7865   | 5.095  | ug/l   | 99     |
| 10) 1,1-Dichloroethene       | 2.313 | 96  | 7277   | 4.826  | ug/l   | 90     |
| 11) Methyl Iodide            | 2.447 | 142 | 6353   | 3.722  | ug/l   | 92     |
| 12) Methyl Acetate           | 2.697 | 43  | 8331   | 4.758  | ug/l   | 99     |
| 13) Acrolein                 | 2.233 | 56  | 8331   | 23.736 | ug/l   | 98     |
| 14) Acrylonitrile            | 3.063 | 53  | 19916  | 23.285 | ug/l   | 98     |
| 15) Acetone                  | 2.380 | 58  | 6140   | 26.175 | ug/l   | 89     |
| 16) Carbon Disulfide         | 2.502 | 76  | 20739  | 4.849  | ug/l   | 98     |
| 17) Allyl chloride           | 2.654 | 41  | 13453  | 4.770  | ug/l   | 99     |
| 18) Methylene Chloride       | 2.782 | 84  | 8146   | 4.803  | ug/l   | 96     |
| 19) trans-1,2-Dichloroethene | 3.081 | 96  | 7385   | 4.841  | ug/l   | 90     |
| 20) Diisopropyl ether        | 3.751 | 45  | 25687  | 4.740  | ug/l # | 87     |
| 21) 1,1-Dichloroethane       | 3.599 | 63  | 14970  | 4.967  | ug/l   | 99     |
| 22) cis-1,2-Dichloroethene   | 4.477 | 96  | 9065   | 4.959  | ug/l   | 95     |
| 23) tert-Butyl Alcohol       | 2.971 | 59  | 7280m  | 24.352 | ug/l   |        |
| 24) Methyl tert-Butyl Ether  | 3.105 | 73  | 23498  | 4.775  | ug/l   | 96     |
| 25) Chloroform               | 5.087 | 83  | 14134  | 4.855  | ug/l   | 99     |
| 26) Cyclohexane              | 5.452 | 56  | 13400  | 4.816  | ug/l # | 98     |
| 29) 1,1-Dichloropropene      | 5.690 | 75  | 9965   | 5.032  | ug/l   | 97     |
| 30) 2-Butanone               | 4.562 | 43  | 28712  | 25.103 | ug/l   | 97     |
| 31) 2,2-Dichloropropane      | 4.459 | 77  | 11020  | 4.922  | ug/l # | 69     |
| 32) 1,1,1-Trichloroethane    | 5.373 | 97  | 12088  | 5.038  | ug/l   | 99     |
| 33) Carbon Tetrachloride     | 5.666 | 117 | 10269  | 5.071  | ug/l   | 91     |
| 34) Benzene                  | 6.031 | 78  | 31321  | 5.044  | ug/l   | 97     |
| 35) Methacrylonitrile        | 4.916 | 41  | 5515m  | 4.506  | ug/l   |        |
| 36) 1,2-Dichloroethane       | 6.074 | 62  | 10725  | 5.045  | ug/l # | 82     |
| 37) Trichloroethene          | 7.123 | 130 | 7309   | 5.031  | ug/l   | 95     |
| 38) Methylcyclohexane        | 7.373 | 83  | 13407  | 5.042  | ug/l   | 95     |
| 39) 1,2-Dichloropropane      | 7.428 | 63  | 7710   | 4.994  | ug/l   | 96     |
| 40) Dibromomethane           | 7.574 | 93  | 5709   | 5.153  | ug/l   | 97     |
| 41) Bromodichloromethane     | 7.818 | 83  | 10949  | 4.973  | ug/l   | 97     |
| 42) Vinyl Acetate            | 3.715 | 43  | 101864 | 22.951 | ug/l   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045008.D  
 Acq On : 21 Feb 2025 09:58  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

MSVOA\_X

## ClientSampleId :

VSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :John  
 Carlone

02/24/2025

Supervised By :Mahesh  
 Dadoda

02/24/2025

Quant Time: Feb 22 00:46:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |    |
|-------------------------------|--------|------|----------|--------|-------|----------|----|
| 43) Ethyl Acetate             | 4.709  | 43   | 9903     | 4.617  | ug/l  | #        | 78 |
| 44) Isopropyl Acetate         | 6.336  | 43   | 15951    | 4.518  | ug/l  |          | 95 |
| 45) 1,4-Dioxane               | 7.665  | 88   | 3476     | 94.718 | ug/l  | #        | 94 |
| 46) Methyl methacrylate       | 7.696  | 41   | 7550     | 4.362  | ug/l  |          | 95 |
| 47) n-amyl Acetate            | 10.842 | 43   | 12931    | 4.221  | ug/l  |          | 99 |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 9461     | 4.458  | ug/l  |          | 95 |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 11016    | 4.585  | ug/l  |          | 98 |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 7268     | 5.030  | ug/l  |          | 96 |
| 51) Ethyl methacrylate        | 9.116  | 69   | 9742     | 4.287  | ug/l  |          | 97 |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 12611    | 4.981  | ug/l  |          | 99 |
| 53) Dibromochloromethane      | 9.519  | 129  | 7657     | 4.791  | ug/l  |          | 97 |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 7119     | 4.851  | ug/l  |          | 95 |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 26987    | 23.123 | ug/l  |          | 97 |
| 56) Bromoform                 | 10.799 | 173  | 4498     | 4.491  | ug/l  |          | 97 |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 52017    | 23.177 | ug/l  |          | 99 |
| 59) 2-Hexanone                | 9.427  | 43   | 36637    | 22.584 | ug/l  |          | 99 |
| 61) Tetrachloroethene         | 9.269  | 164  | 6401     | 5.269  | ug/l  |          | 99 |
| 62) Toluene                   | 8.714  | 91   | 33141    | 5.071  | ug/l  |          | 95 |
| 64) Chlorobenzene             | 10.073 | 112  | 20106    | 4.965  | ug/l  |          | 99 |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 6593     | 4.934  | ug/l  |          | 98 |
| 66) Ethyl Benzene             | 10.189 | 91   | 34439    | 4.813  | ug/l  |          | 97 |
| 67) m/p-Xylenes               | 10.299 | 106  | 25804    | 9.679  | ug/l  |          | 98 |
| 68) o-Xylene                  | 10.640 | 106  | 12618    | 4.824  | ug/l  |          | 97 |
| 69) Styrene                   | 10.653 | 104  | 20710    | 4.741  | ug/l  |          | 97 |
| 70) Isopropylbenzene          | 10.957 | 105  | 32576    | 4.826  | ug/l  |          | 99 |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 10940    | 4.929  | ug/l  |          | 99 |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 8856m    | 4.851  | ug/l  |          |    |
| 73) Bromobenzene              | 11.195 | 156  | 7592     | 4.886  | ug/l  |          | 99 |
| 74) n-propylbenzene           | 11.299 | 91   | 37507    | 4.669  | ug/l  |          | 99 |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 24091    | 4.961  | ug/l  |          | 97 |
| 76) 1,3,5-Trimethylbenzene    | 11.445 | 105  | 26935    | 4.837  | ug/l  |          | 97 |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 2182     | 3.552  | ug/l  |          | 82 |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 25983    | 4.800  | ug/l  |          | 99 |
| 79) tert-butylbenzene         | 11.713 | 119  | 26773    | 4.772  | ug/l  |          | 99 |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 26568    | 4.763  | ug/l  |          | 97 |
| 81) sec-Butylbenzene          | 11.884 | 105  | 33807    | 4.801  | ug/l  |          | 99 |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 26547    | 4.653  | ug/l  |          | 99 |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 14060    | 4.863  | ug/l  |          | 99 |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 13556    | 4.755  | ug/l  |          | 95 |
| 85) n-Butylbenzene            | 12.329 | 91   | 22634    | 4.344  | ug/l  |          | 99 |
| 86) Hexachloroethane          | 12.536 | 117  | 4340     | 4.313  | ug/l  |          | 98 |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 14188    | 5.001  | ug/l  |          | 98 |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 2067     | 4.810  | ug/l  |          | 86 |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 7586     | 4.412  | ug/l  |          | 98 |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 3570     | 5.091  | ug/l  |          | 96 |
| 91) Naphthalene               | 13.774 | 128  | 26410    | 4.356  | ug/l  |          | 99 |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 8240     | 4.655  | ug/l  |          | 99 |

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

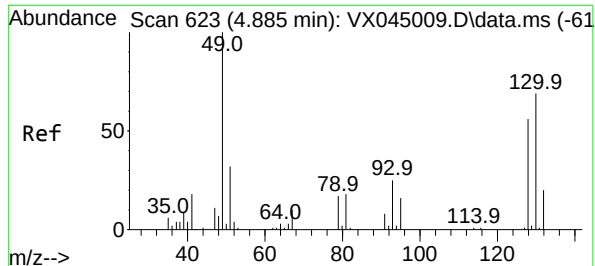
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC005

## Manual Integrations APPROVED

02/24/2025  
Supervised By :Mahesh  
Dadoda

02/24/2025





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.885 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1985  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 181.3 | 0.0   | 449.7 |
| 130      | 128.7 | 0.0   | 312.7 |

Manual Integrations

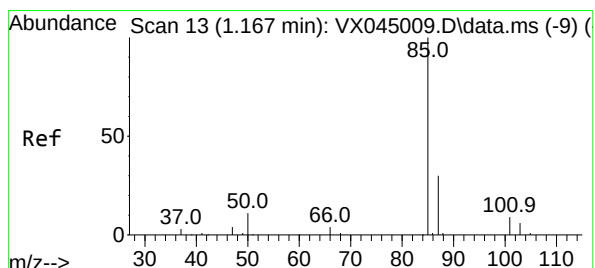
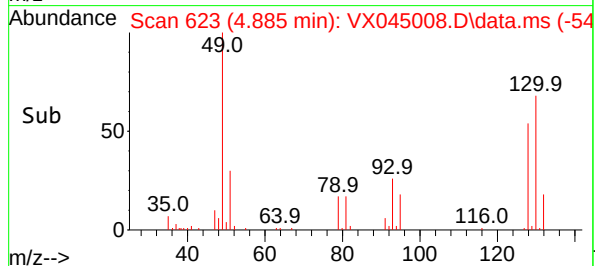
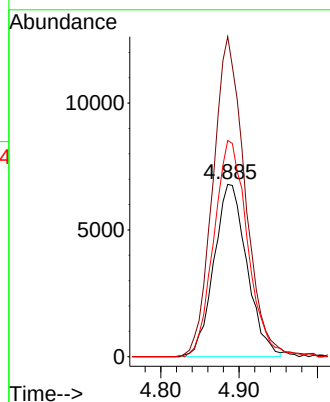
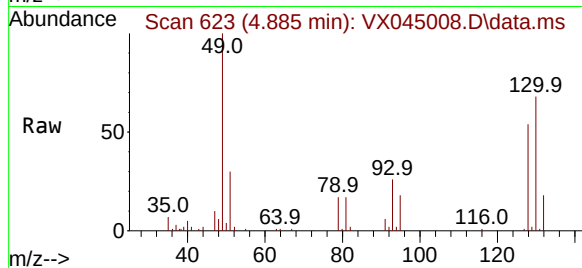
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Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#2

Dichlorodifluoromethane

Concen: 4.942 ug/l

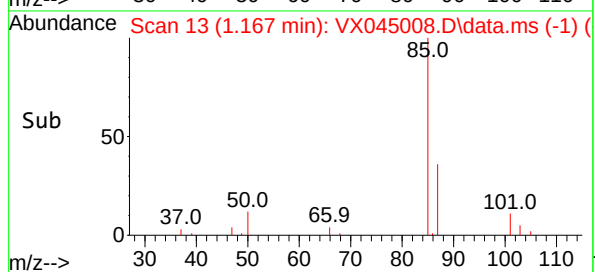
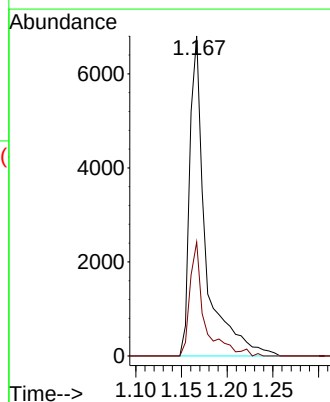
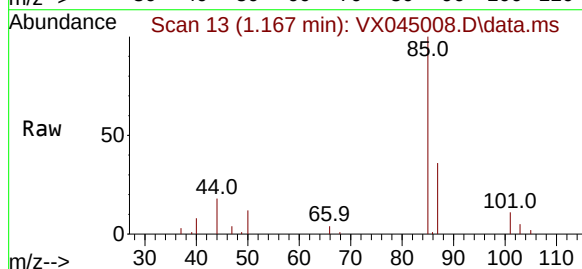
RT: 1.167 min Scan# 13

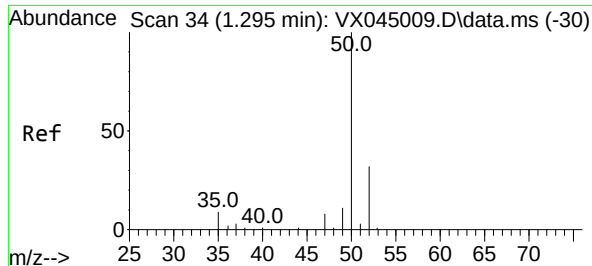
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 8269  |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 35.6  | 15.1  | 45.3  |





#3  
Chloromethane  
Concen: 4.986 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

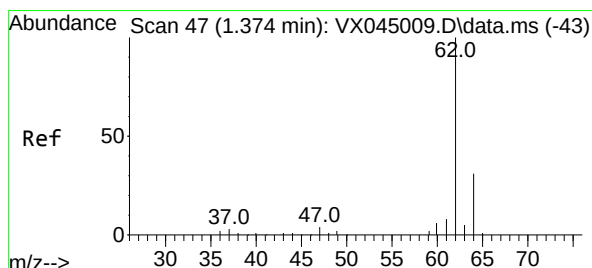
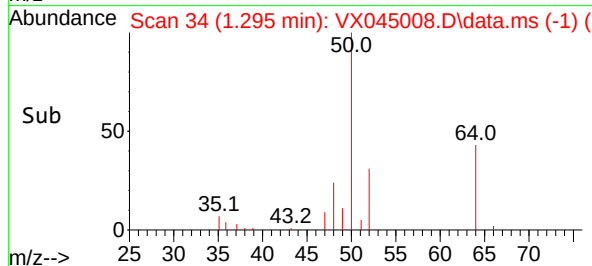
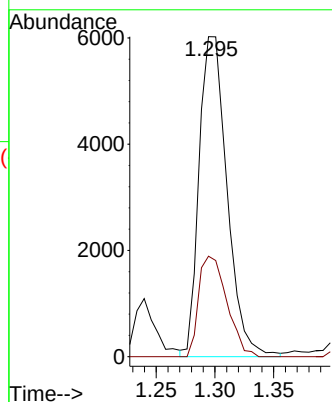
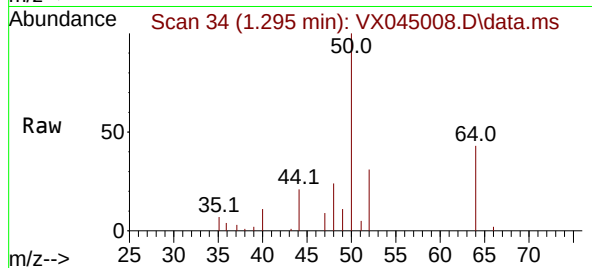
Tgt Ion: 50 Resp: 999  
Ion Ratio Lower Upper  
50 100  
52 31.7 25.7 38.5

Manual Integrations  
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Reviewed By :John  
Carlone

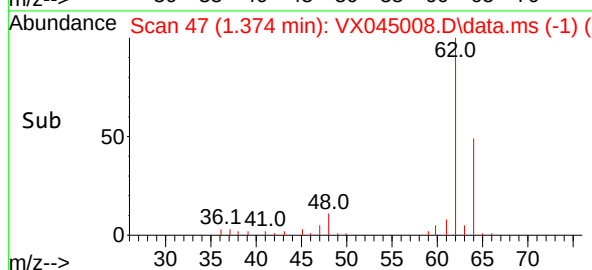
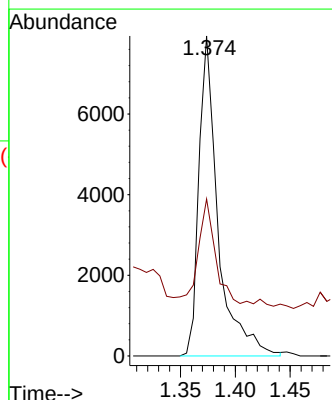
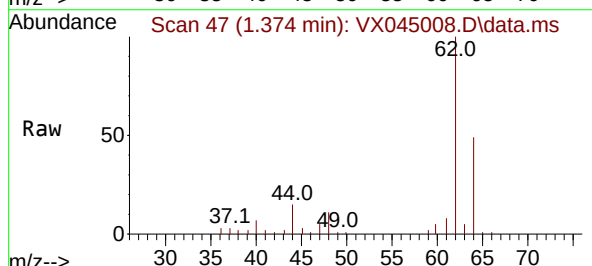
02/24/2025  
Supervised By :Mahesh  
Dadoda

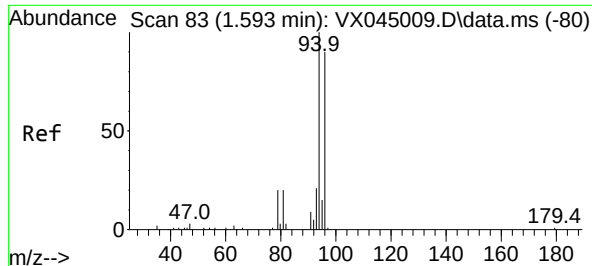
02/24/2025



#4  
Vinyl Chloride  
Concen: 4.989 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

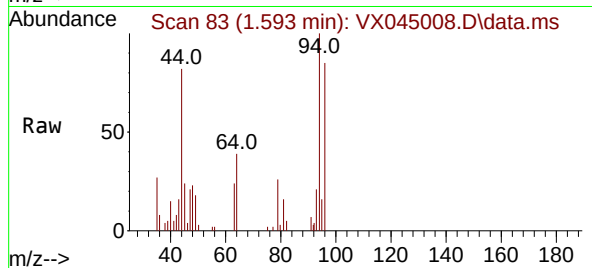
Tgt Ion: 62 Resp: 9648  
Ion Ratio Lower Upper  
62 100  
64 32.8 25.1 37.7





#5  
Bromomethane  
Concen: 5.486 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



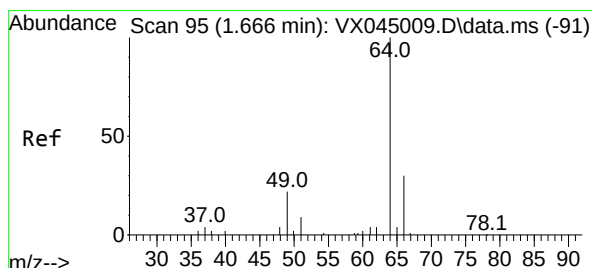
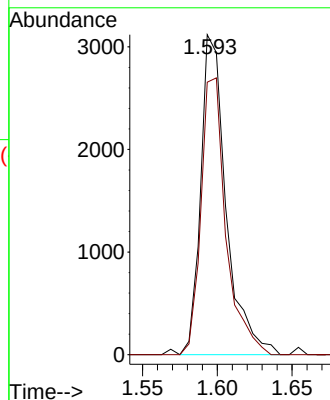
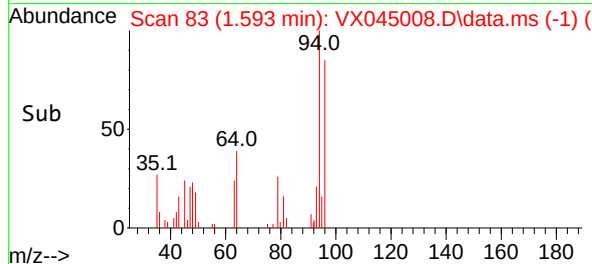
Tgt Ion: 94 Resp: 369  
Ion Ratio Lower Upper  
94 100  
96 85.2 72.2 108.4

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Reviewed By :John  
Carlone

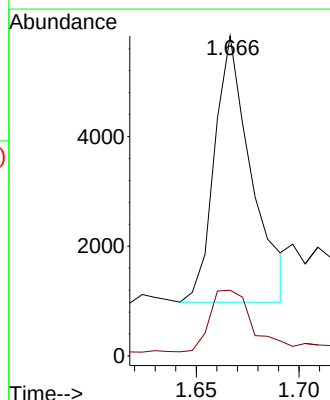
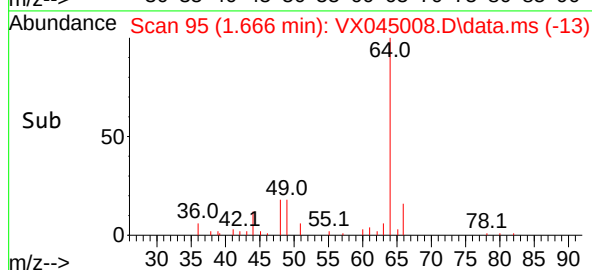
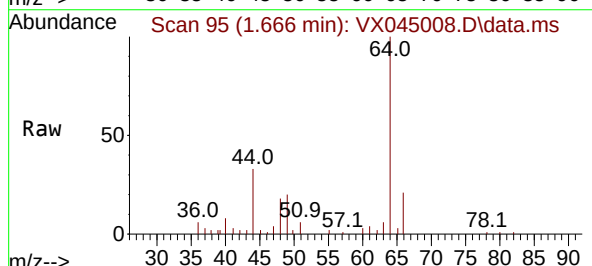
02/24/2025  
Supervised By :Mahesh  
Dadoda

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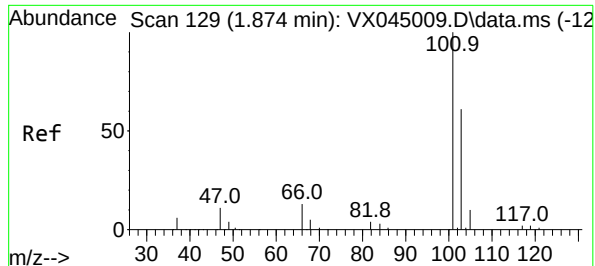


#6  
Chloroethane  
Concen: 5.753 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 64 Resp: 6026  
Ion Ratio Lower Upper  
64 100  
66 23.1 23.7 35.5#







#7  
Trichlorofluoromethane  
Concen: 5.068 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

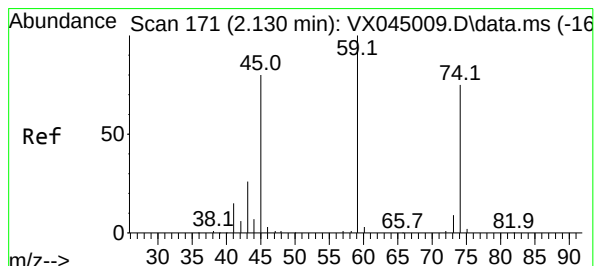
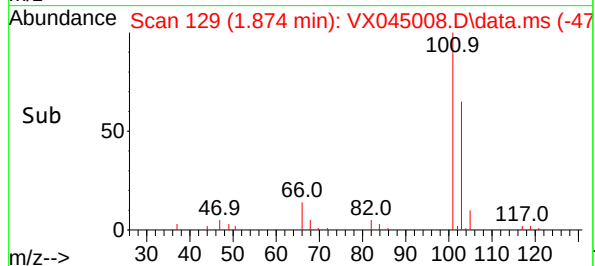
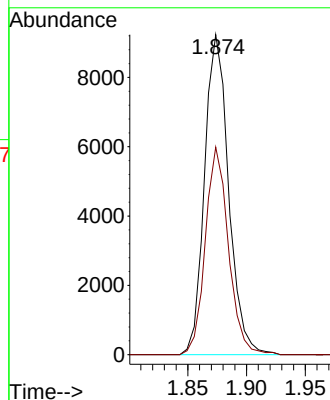
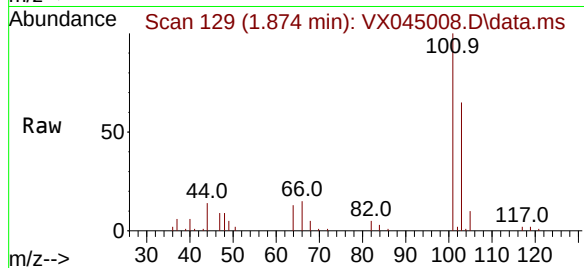
Tgt Ion:101 Resp: 13174  
Ion Ratio Lower Upper  
101 100  
103 64.8 48.8 73.2

Manual Integrations  
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Reviewed By :John  
Carlone

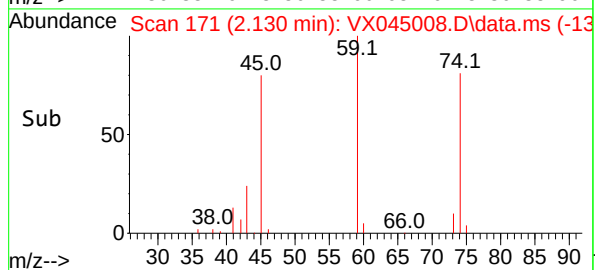
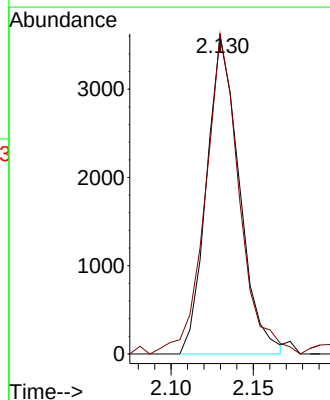
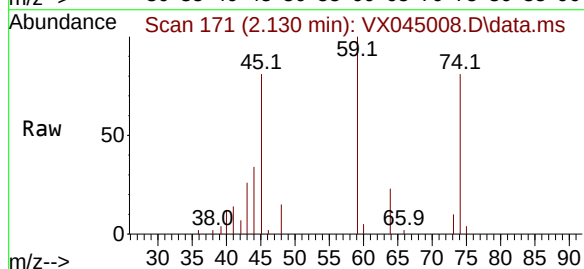
02/24/2025  
Supervised By :Mahesh  
Dadoda

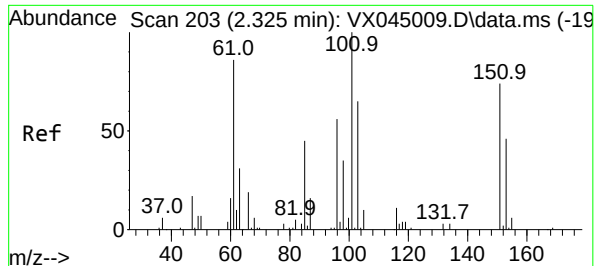
02/24/2025



#8  
Diethyl Ether  
Concen: 5.068 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

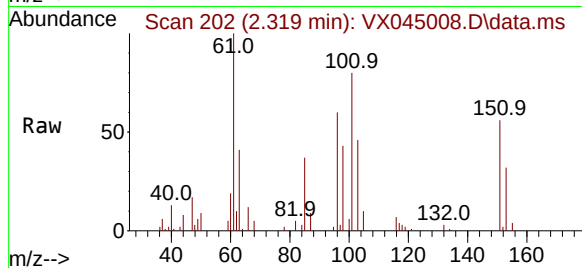
Tgt Ion: 74 Resp: 4984  
Ion Ratio Lower Upper  
74 100  
45 103.9 20.8 186.8





#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.095 ug/l  
RT: 2.319 min Scan# 203  
Delta R.T. -0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



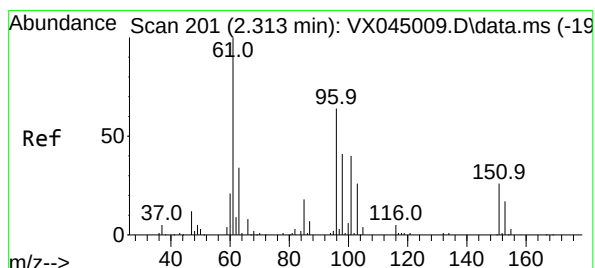
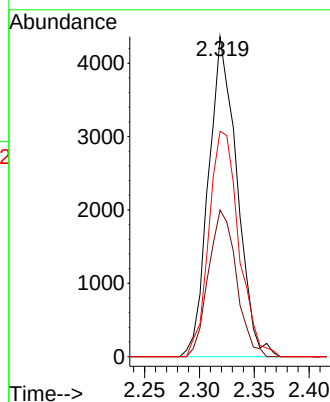
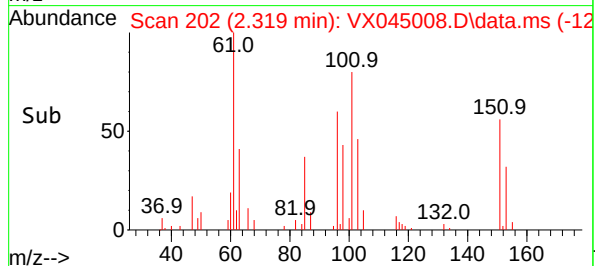
Tgt Ion:101 Resp: 786  
Ion Ratio Lower Upper  
101 100  
85 45.0 0.0 90.6  
151 74.3 0.0 147.6

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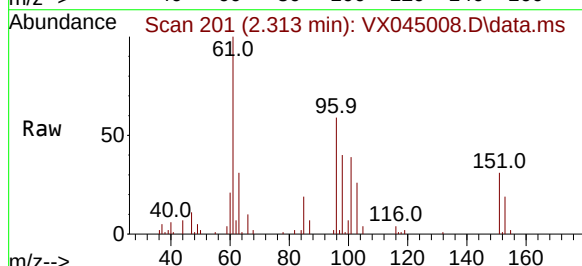
Reviewed By :John  
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02/24/2025  
Supervised By :Mahesh  
Dadoda

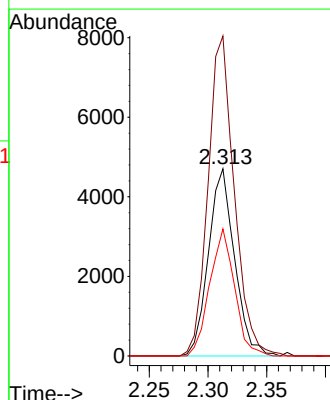
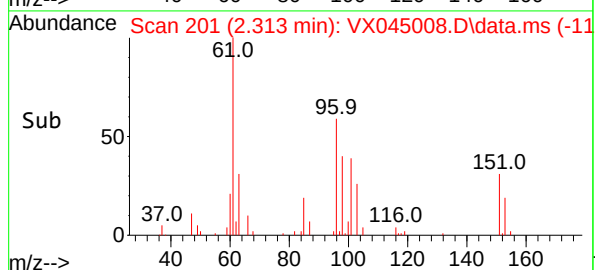
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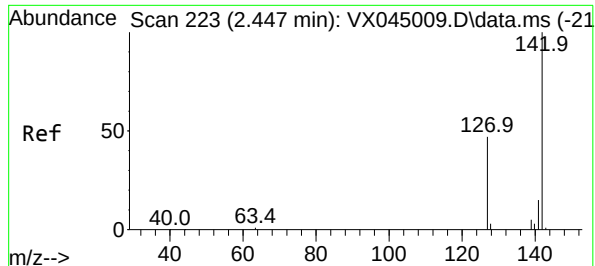


#10  
1,1-Dichloroethene  
Concen: 4.826 ug/l  
RT: 2.313 min Scan# 201  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58



Tgt Ion: 96 Resp: 7277  
Ion Ratio Lower Upper  
96 100  
61 170.9 124.2 186.2  
98 67.8 51.1 76.7





#11

Methyl Iodide

Concen: 3.722 ug/l

RT: 2.447 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 635   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 42.0  | 23.3  | 69.9  |
| 141      | 18.9  | 7.5   | 22.6  |

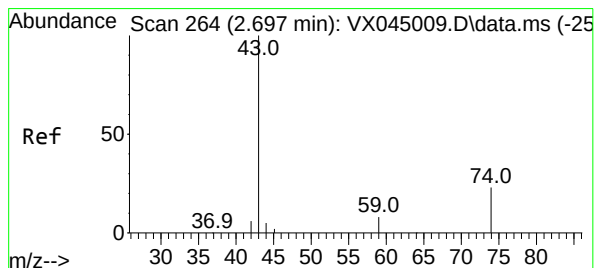
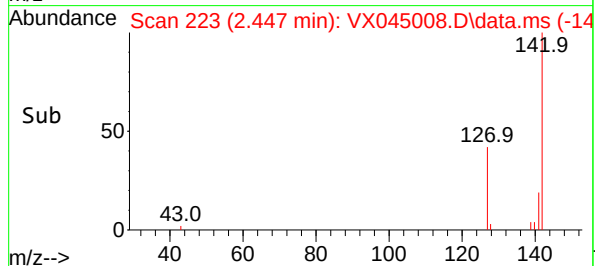
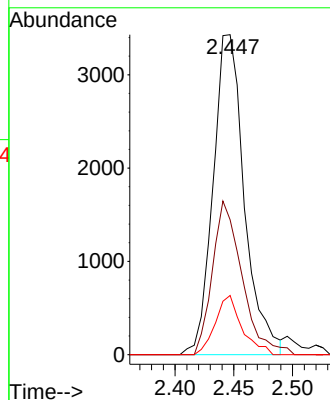
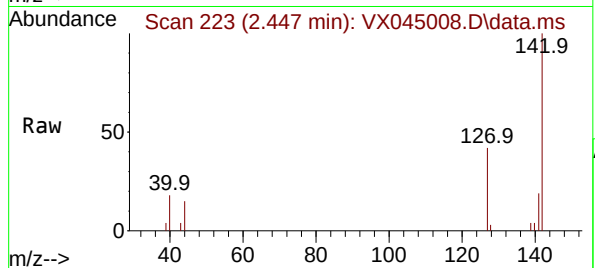
Manual Integrations  
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Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

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#12

Methyl Acetate

Concen: 4.758 ug/l

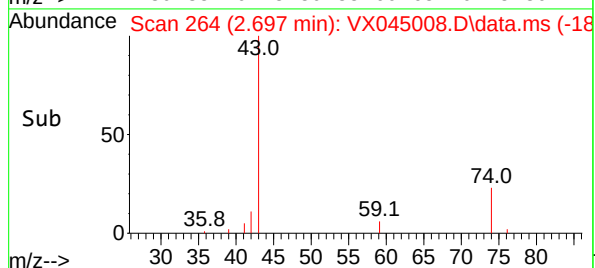
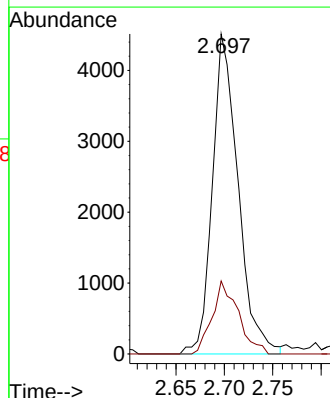
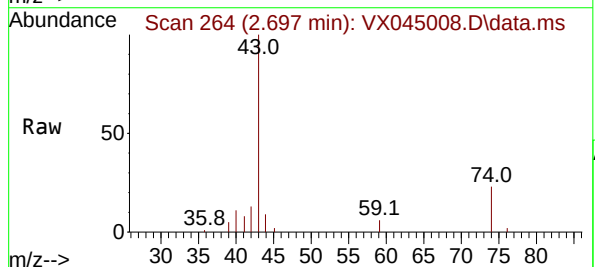
RT: 2.697 min Scan# 264

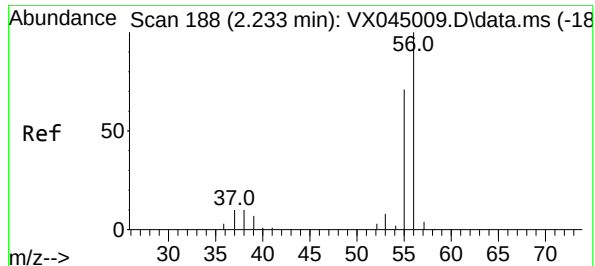
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8331  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 74       | 23.1  | 17.9  | 26.9  |





#13

Acrolein

Concen: 23.736 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 833

Ion Ratio Lower Upper

56 100

55 71.2 55.4 83.2

Manual Integrations

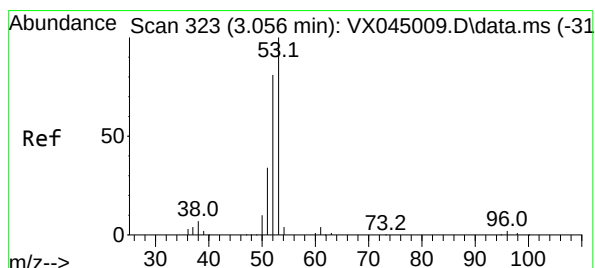
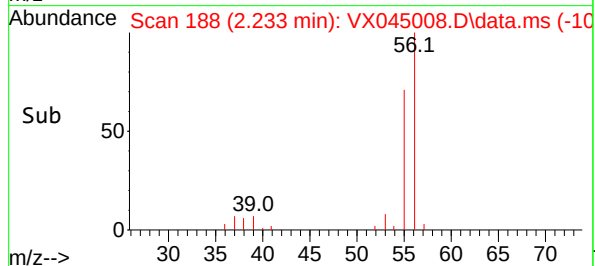
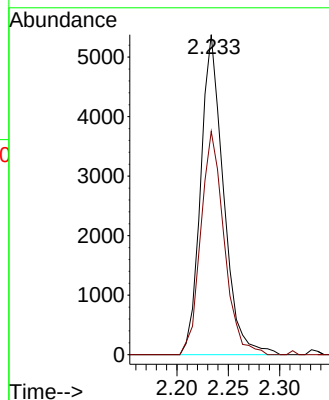
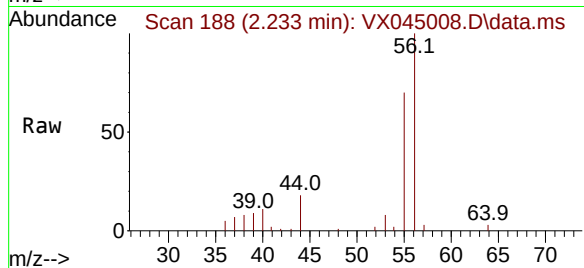
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Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#14

Acrylonitrile

Concen: 23.285 ug/l

RT: 3.063 min Scan# 324

Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

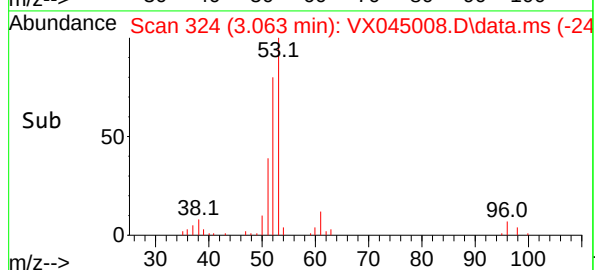
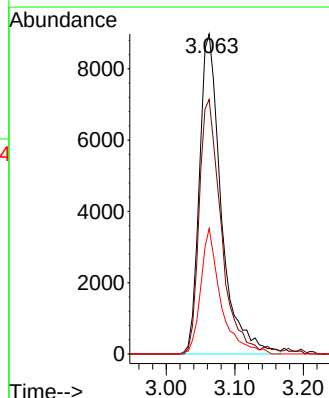
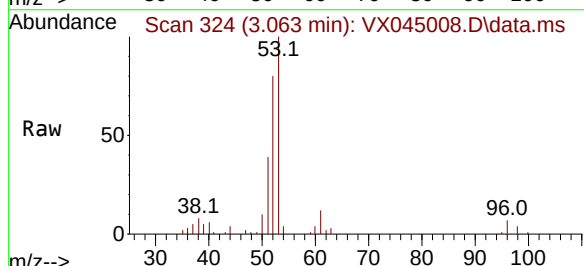
Tgt Ion: 53 Resp: 19916

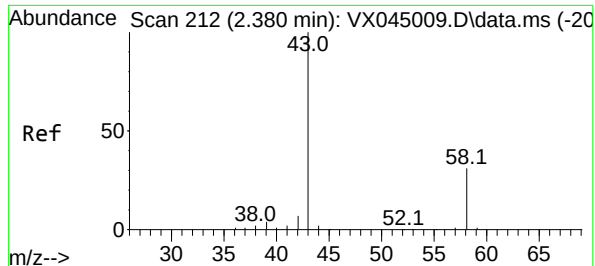
Ion Ratio Lower Upper

53 100

52 79.7 40.9 122.8

51 36.2 18.0 54.0





#15

Acetone

Concen: 26.175 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX045008.D

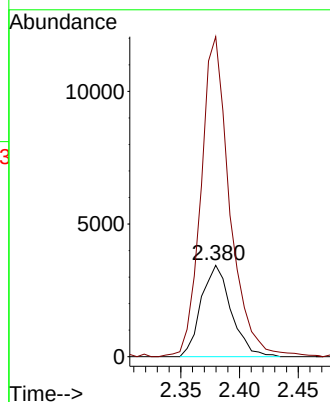
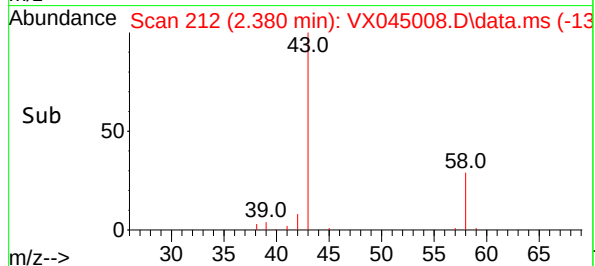
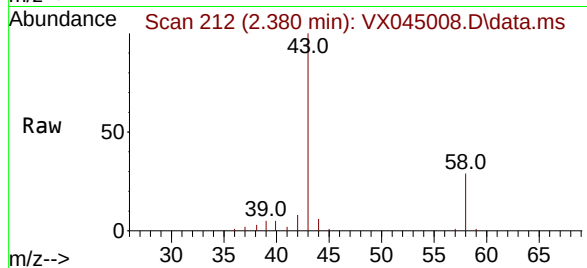
Acq: 21 Feb 2025 09:58

Tgt Ion: 58 Resp: 6140

Ion Ratio Lower Upper

58 100

43 345.3 258.6 388.0



Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Manual Integrations

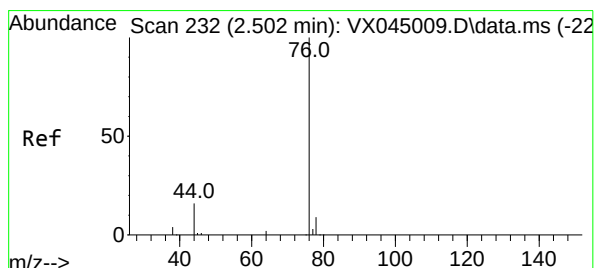
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Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#16

Carbon Disulfide

Concen: 4.849 ug/l

RT: 2.502 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX045008.D

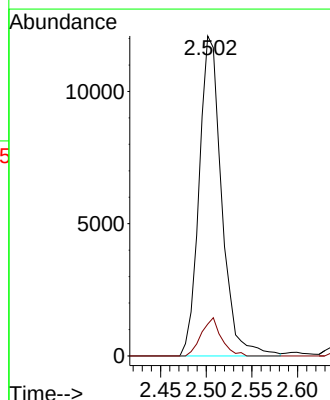
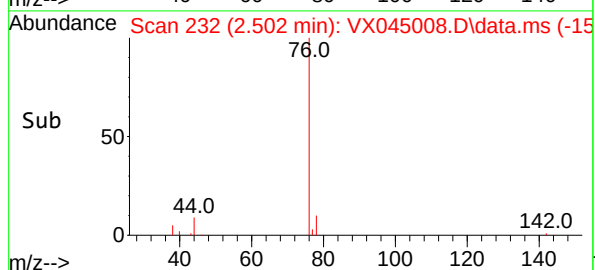
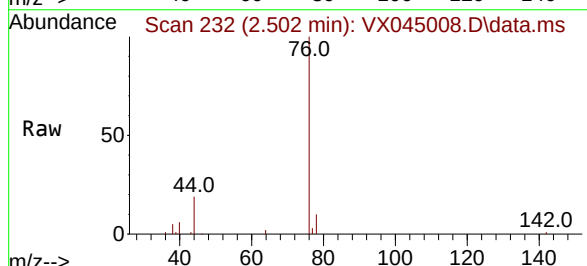
Acq: 21 Feb 2025 09:58

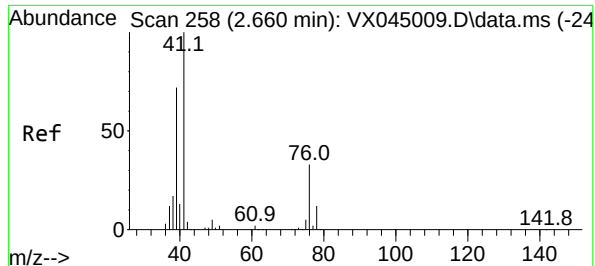
Tgt Ion: 76 Resp: 20739

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9





#17

Allyl chloride

Concen: 4.770 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 1345  |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 72.3     | 36.2 108.6  |
| 76 36.3     | 17.2 51.5   |

Instrument :

MSVOA\_X

ClientSampleId :

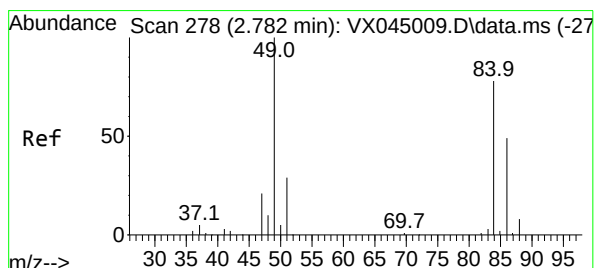
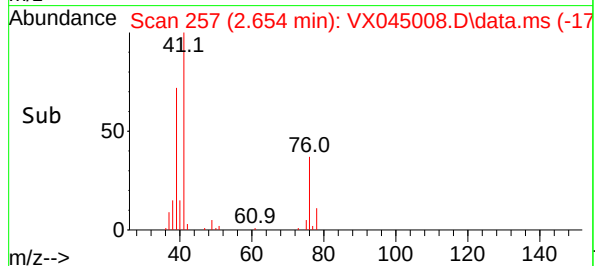
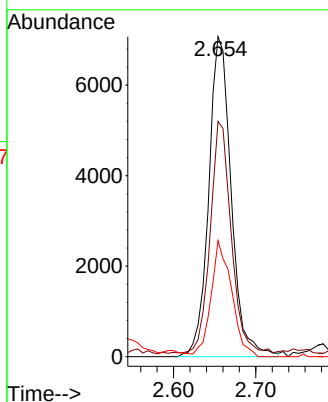
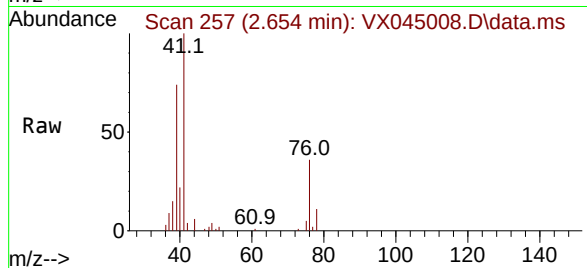
VSTDIC005

**Manual Integrations  
APPROVED**Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#18

Methylene Chloride

Concen: 4.803 ug/l

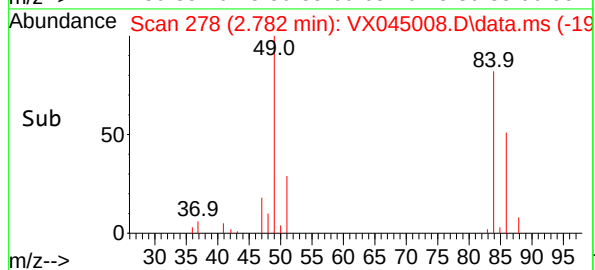
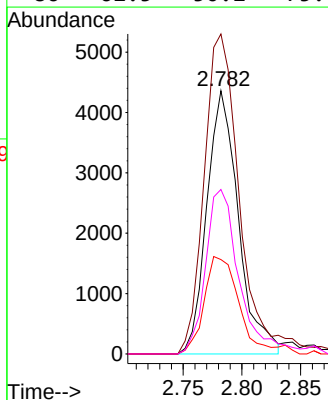
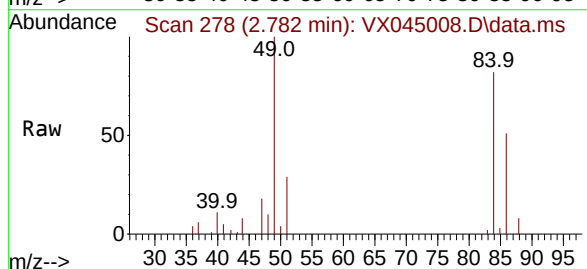
RT: 2.782 min Scan# 278

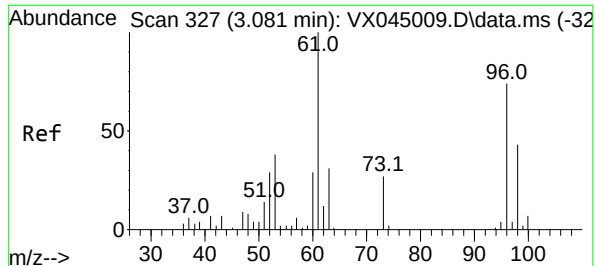
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 8146  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 121.6    | 102.8 154.2 |
| 51 35.8     | 30.1 45.1   |
| 86 62.5     | 50.2 75.4   |





#19

trans-1,2-Dichloroethene

Concen: 4.841 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 738

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 149.5 | 108.6 | 163.0 |
| 98  | 62.5  | 46.5  | 69.7  |

Manual Integrations

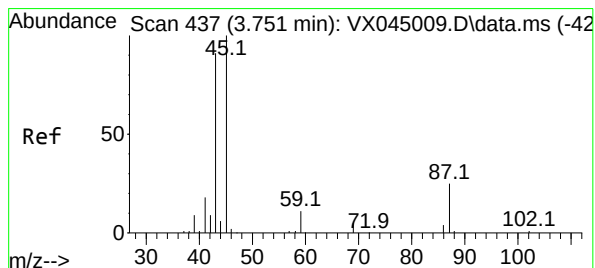
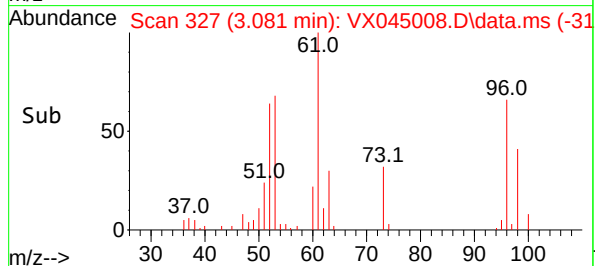
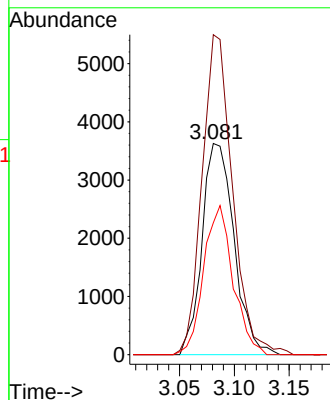
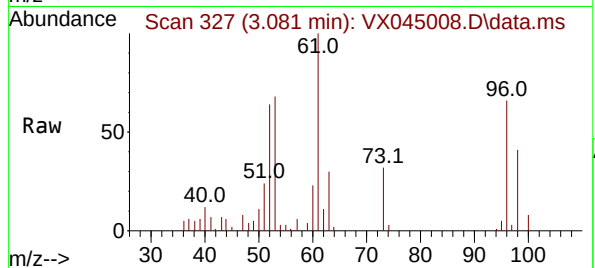
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#20

Diisopropyl ether

Concen: 4.740 ug/l

RT: 3.751 min Scan# 437

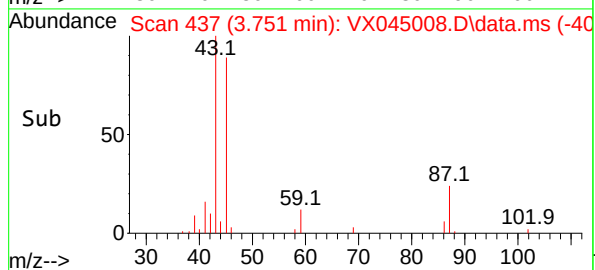
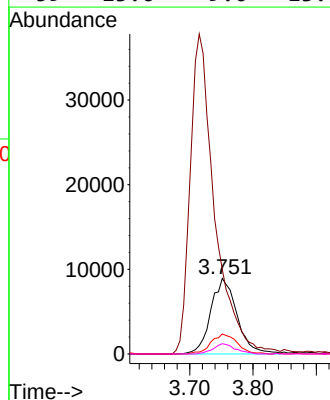
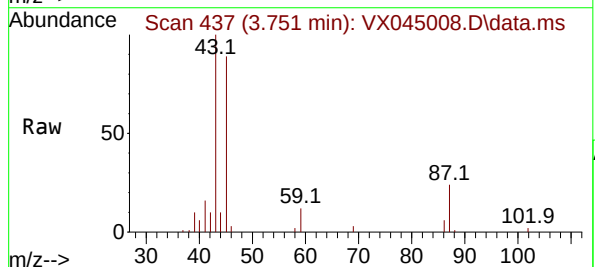
Delta R.T. -0.000 min

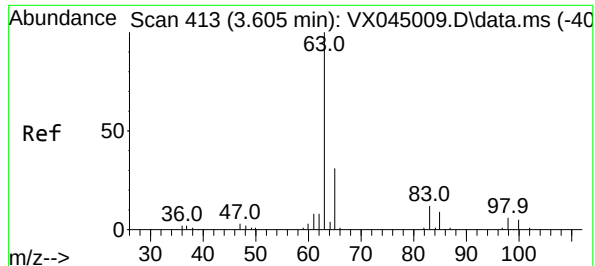
Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Tgt Ion: 45 Resp: 25687

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 108.7 | 74.4  | 111.6 |
| 87  | 26.5  | 19.8  | 29.8  |
| 59  | 13.6  | 9.0   | 13.4  |





#21  
1,1-Dichloroethane  
Concen: 4.967 ug/l  
RT: 3.599 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

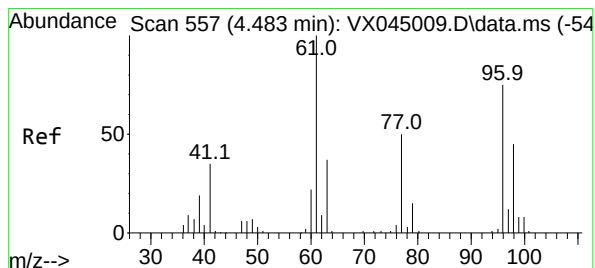
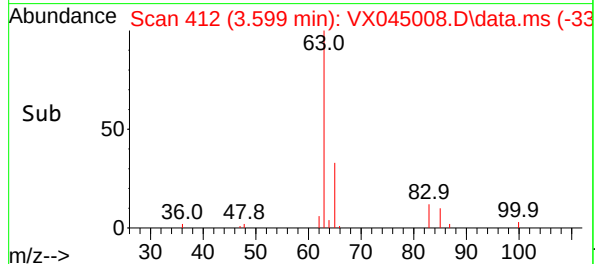
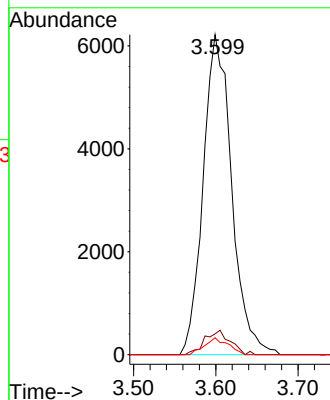
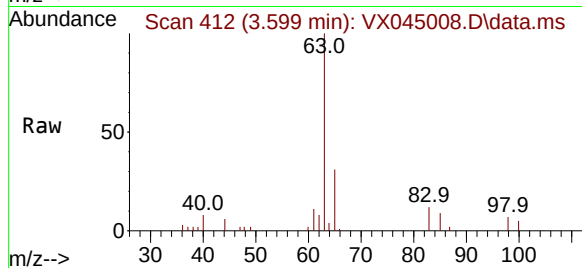
Tgt Ion: 63 Resp: 14970  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.3 9.8  
100 5.3 2.4 7.1

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

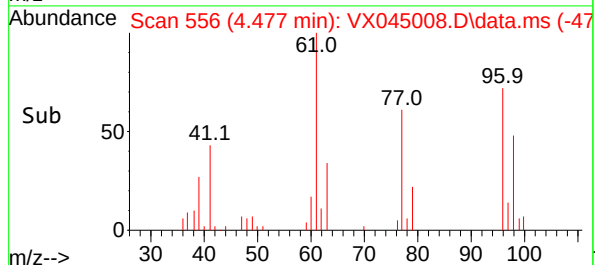
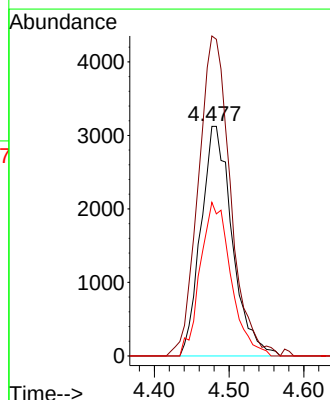
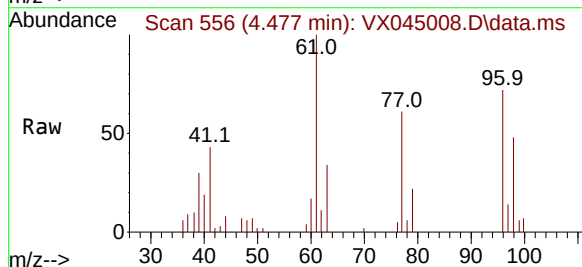
02/24/2025  
Supervised By :Mahesh  
Dadoda

02/24/2025

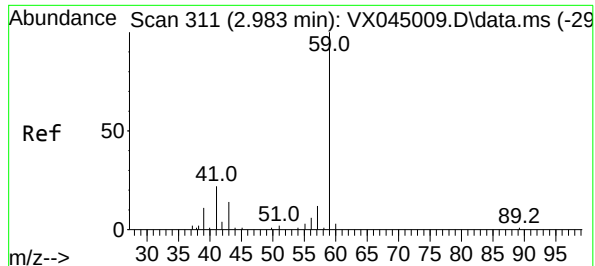


#22  
cis-1,2-Dichloroethene  
Concen: 4.959 ug/l  
RT: 4.477 min Scan# 556  
Delta R.T. -0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 96 Resp: 9065  
Ion Ratio Lower Upper  
96 100  
61 141.8 118.9 178.3  
98 65.6 50.7 76.1







#23

tert-Butyl Alcohol

Concen: 24.352 ug/l m

RT: 2.971 min Scan# 309

Delta R.T. -0.012 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 7280

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

Manual Integrations

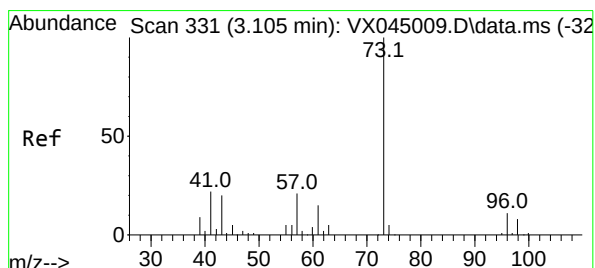
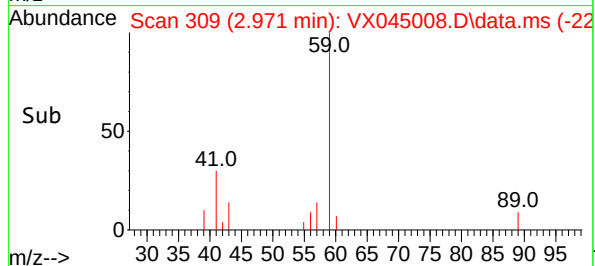
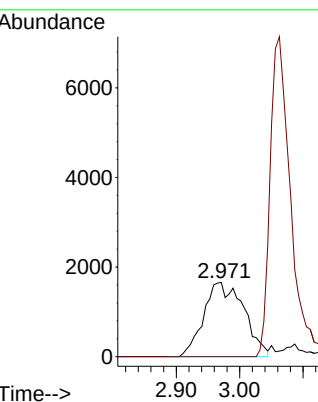
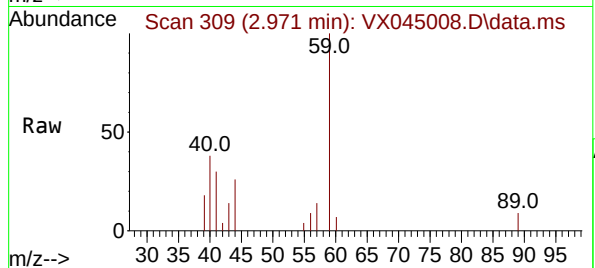
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#24

Methyl tert-Butyl Ether

Concen: 4.775 ug/l

RT: 3.105 min Scan# 331

Delta R.T. -0.000 min

Lab File: VX045008.D

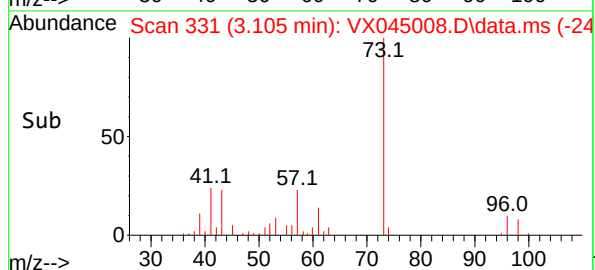
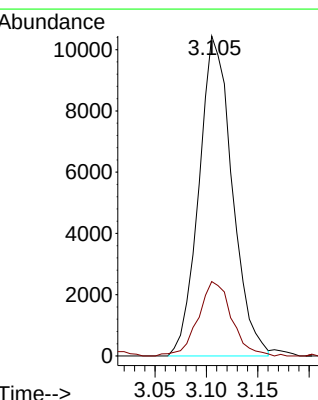
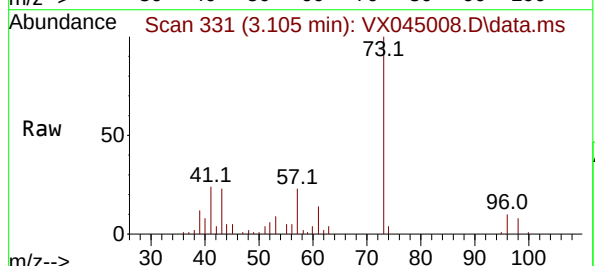
Acq: 21 Feb 2025 09:58

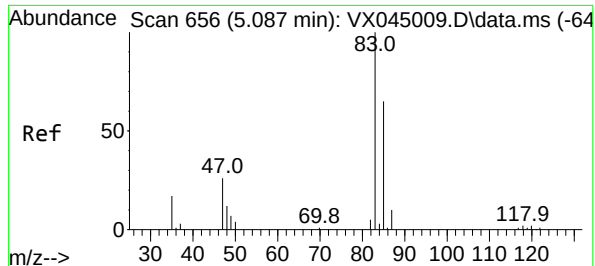
Tgt Ion: 73 Resp: 23498

Ion Ratio Lower Upper

73 100

43 23.4 17.4 26.0





#25

Chloroform

Concen: 4.855 ug/l

RT: 5.087 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 83 Resp: 14134

Ion Ratio Lower Upper

83 100

85 64.1 51.7 77.5

Manual Integrations

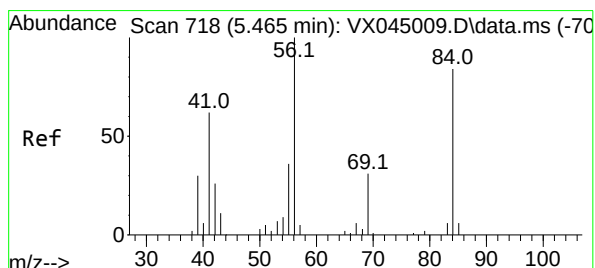
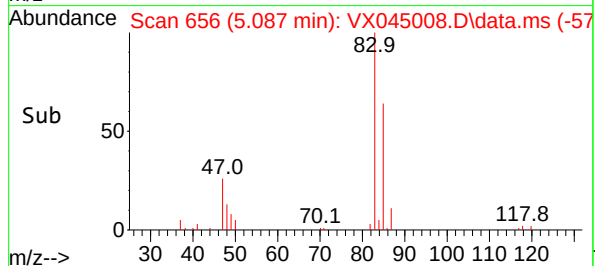
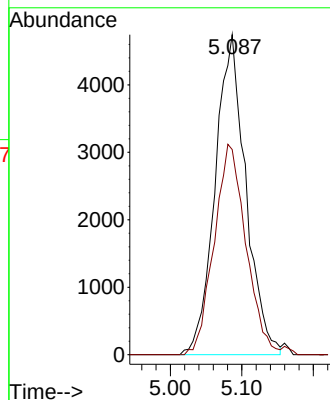
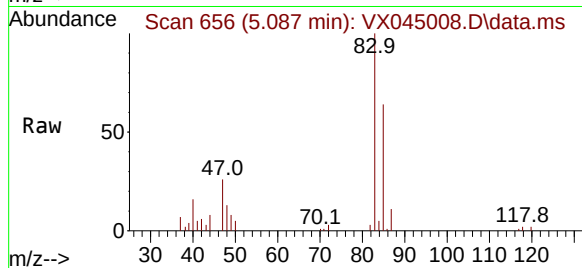
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#26

Cyclohexane

Concen: 4.816 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.012 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

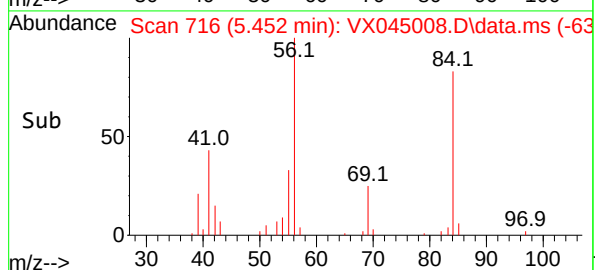
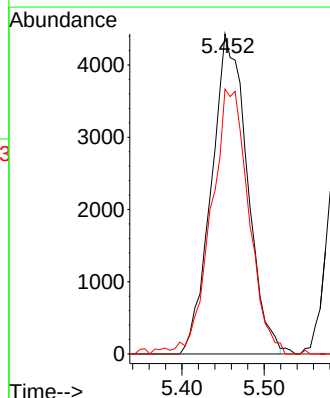
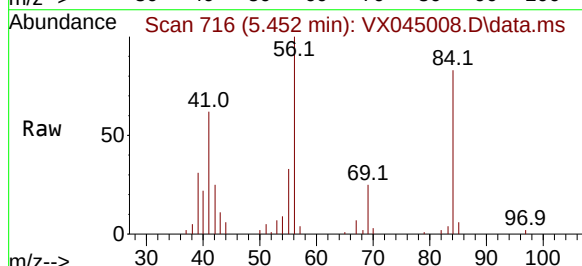
Tgt Ion: 56 Resp: 13400

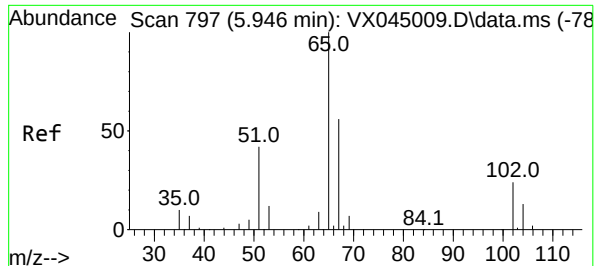
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.2 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 29.664 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 57190

Ion Ratio Lower Upper

65 100

67 53.7 42.6 64.0

Manual Integrations

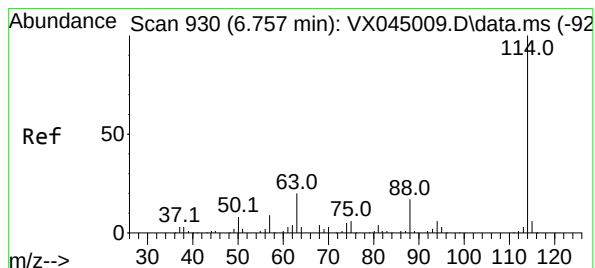
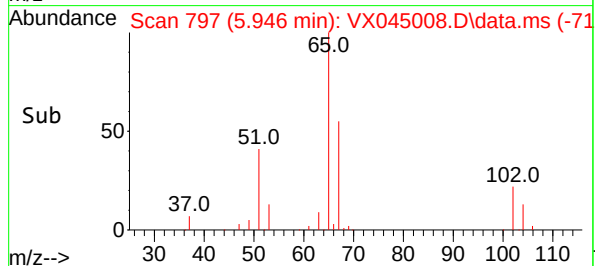
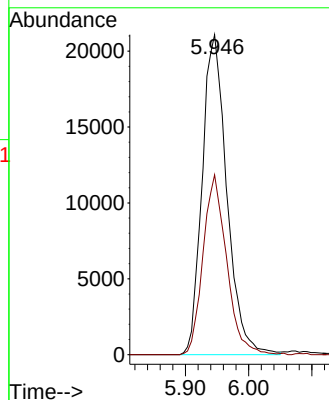
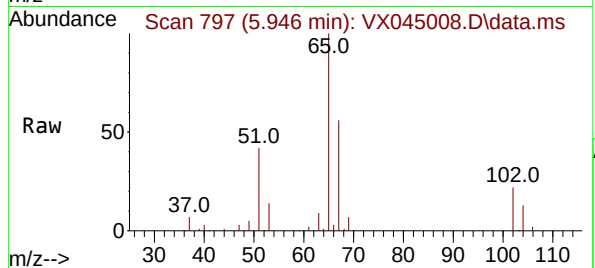
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

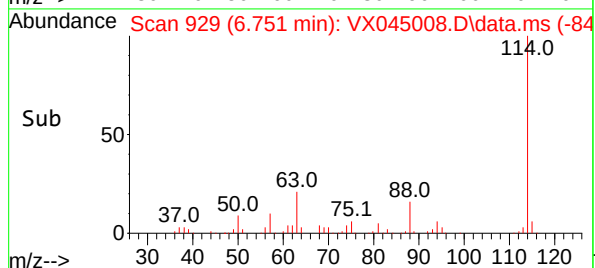
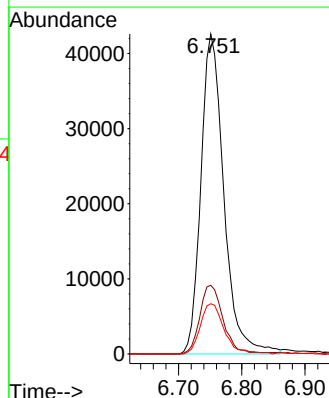
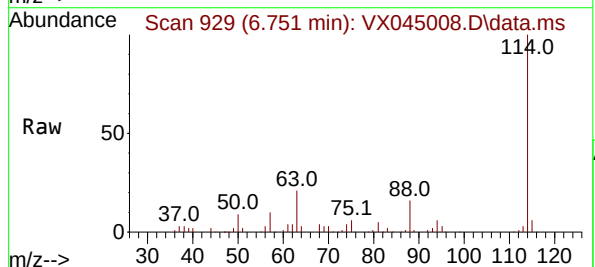
Tgt Ion:114 Resp: 107647

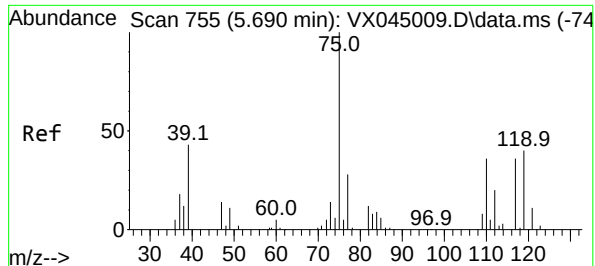
Ion Ratio Lower Upper

114 100

63 21.2 16.8 25.2

88 16.0 12.7 19.1





#29

1,1-Dichloropropene

Concen: 5.032 ug/l

RT: 5.690 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 996   |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 33.6  | 0.0   | 69.2  |
| 77       | 32.5  | 0.0   | 61.0  |

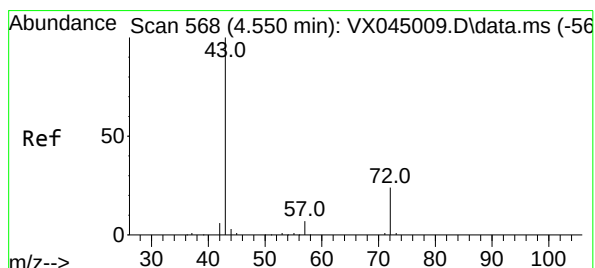
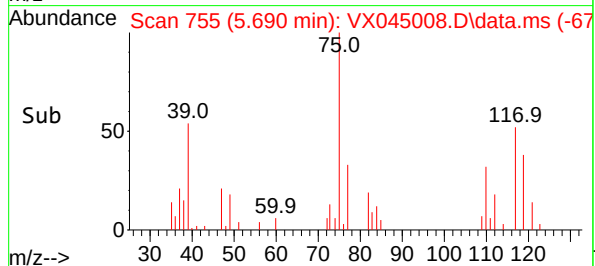
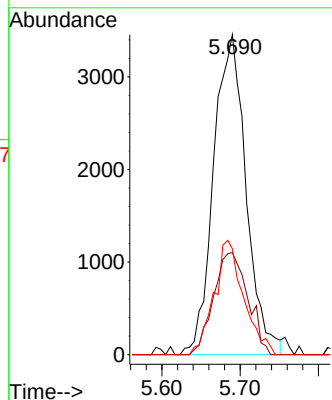
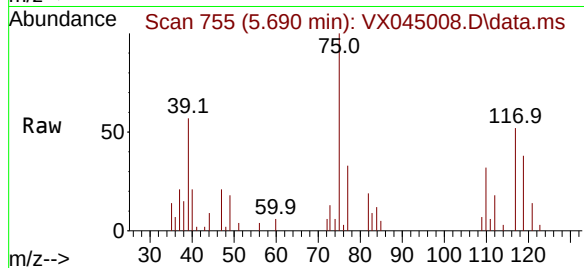
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#30

2-Butanone

Concen: 25.103 ug/l

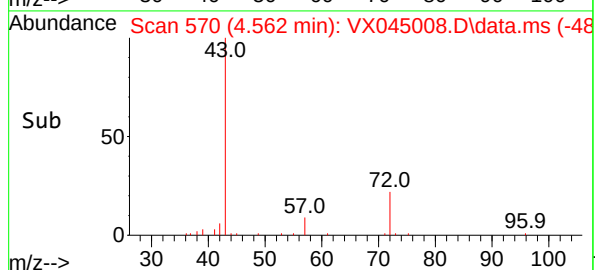
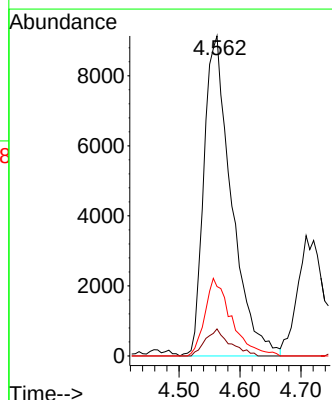
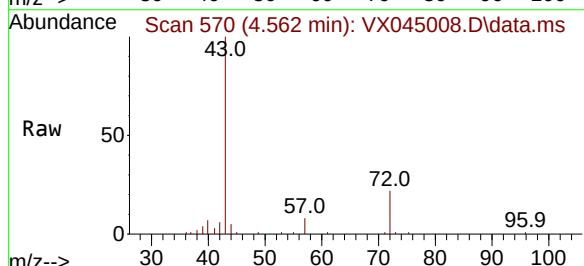
RT: 4.562 min Scan# 570

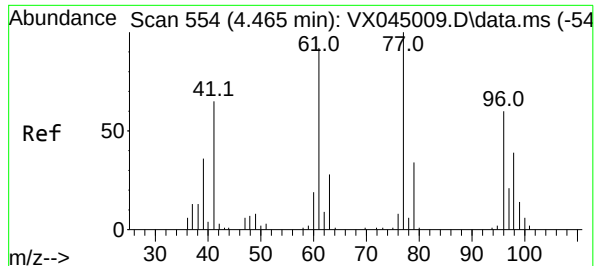
Delta R.T. 0.012 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 28712 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 57       | 7.5   | 6.2   | 9.2   |
| 72       | 23.4  | 20.2  | 30.2  |





#31  
2,2-Dichloropropane  
Concen: 4.922 ug/l  
RT: 4.459 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

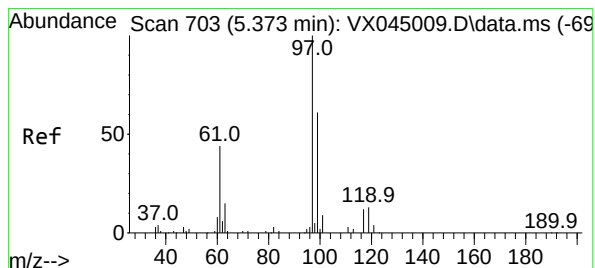
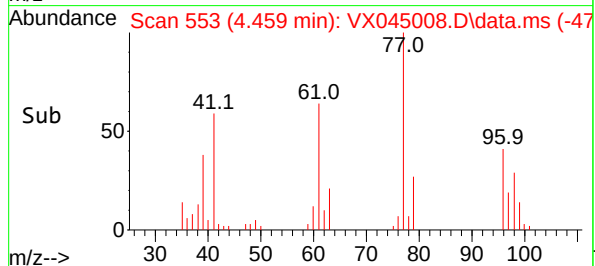
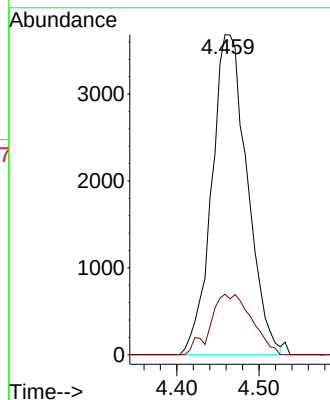
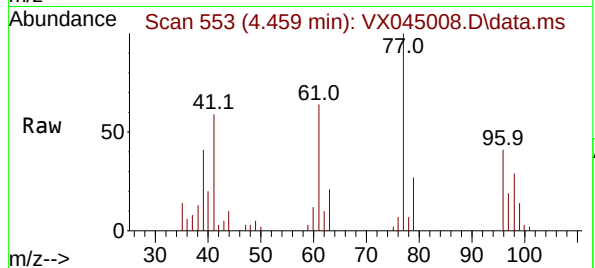
Tgt Ion: 77 Resp: 11020  
Ion Ratio Lower Upper  
77 100  
97 7.5 18.0 27.0

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

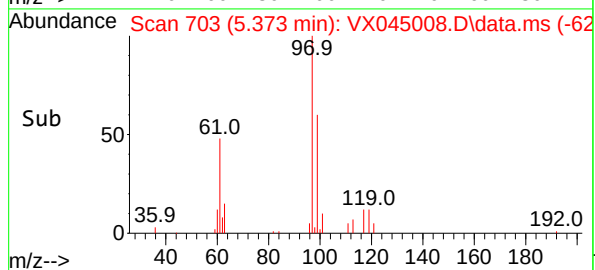
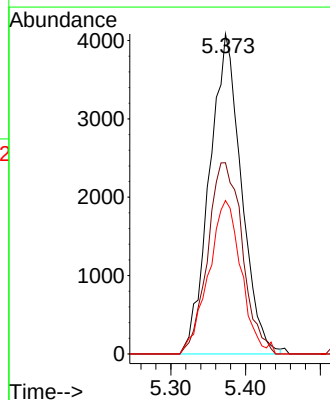
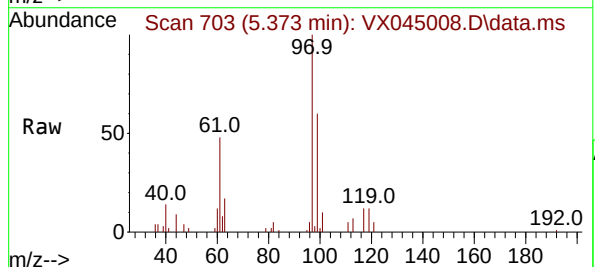
02/24/2025  
Supervised By :Mahesh  
Dadoda

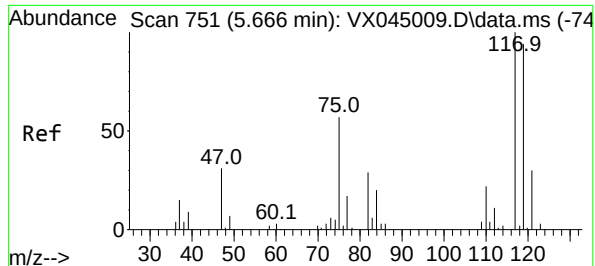
02/24/2025



#32  
1,1,1-Trichloroethane  
Concen: 5.038 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 97 Resp: 12088  
Ion Ratio Lower Upper  
97 100  
99 64.9 52.2 78.2  
61 48.7 38.5 57.7





#33

Carbon Tetrachloride

Concen: 5.071 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 10269

Ion Ratio Lower Upper

117 100

119 84.5 75.1 112.7

121 26.2 23.9 35.9

Manual Integrations

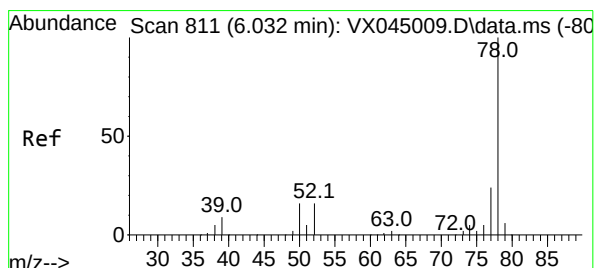
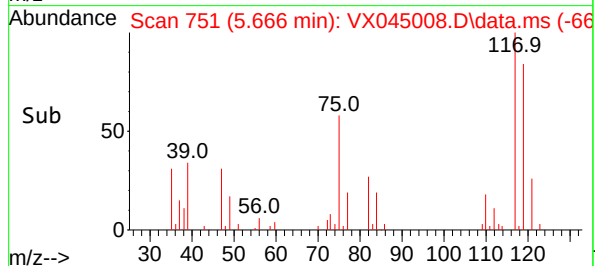
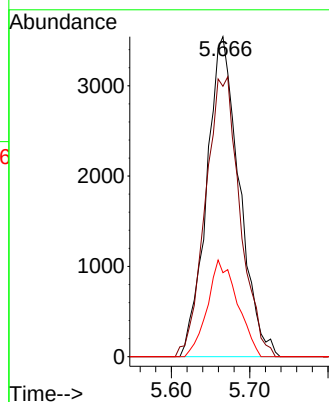
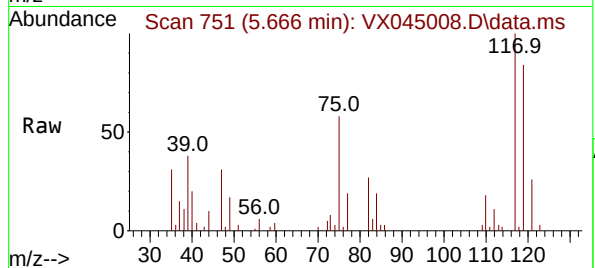
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#34

Benzene

Concen: 5.044 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

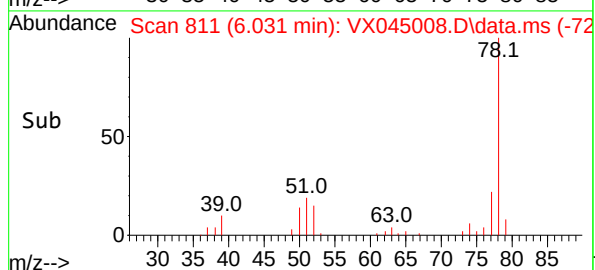
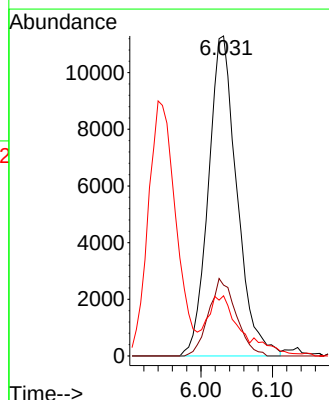
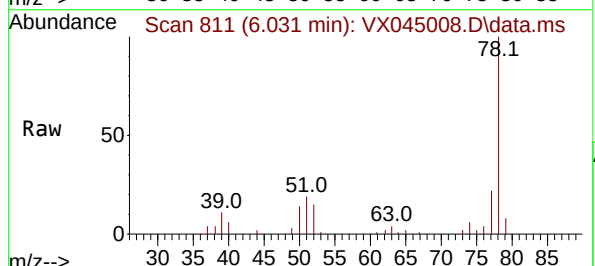
Tgt Ion: 78 Resp: 31321

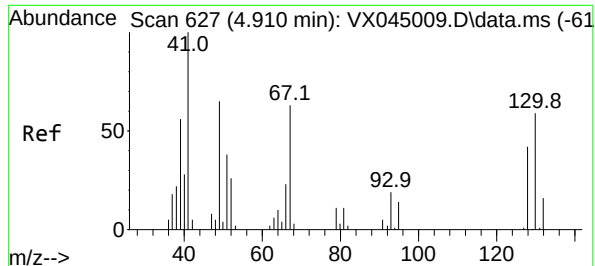
Ion Ratio Lower Upper

78 100

77 22.2 19.6 29.4

51 17.3 13.8 20.6





#35

Methacrylonitrile

Concen: 4.506 ug/l m

RT: 4.916 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 551

Ion Ratio Lower Upper

41 100

39 62.5 27.8 83.4

67 58.4 31.5 94.5

52 22.3 12.8 38.4

Manual Integrations

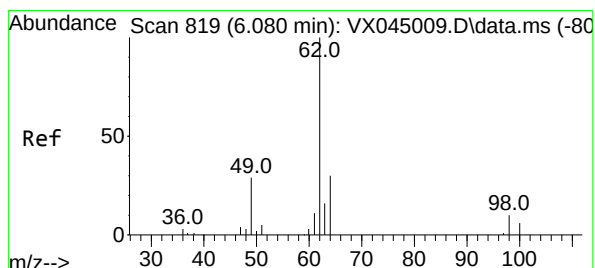
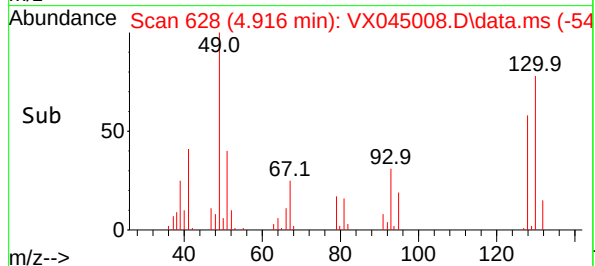
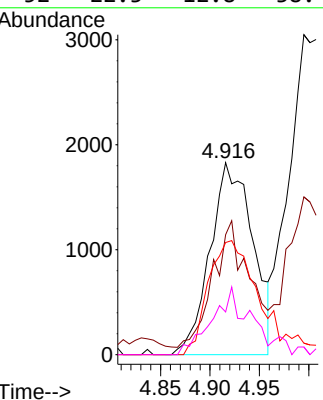
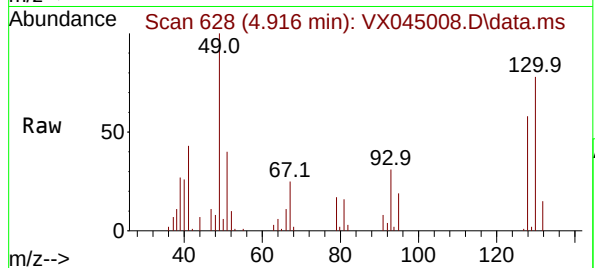
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#36

1,2-Dichloroethane

Concen: 5.045 ug/l

RT: 6.074 min Scan# 818

Delta R.T. -0.006 min

Lab File: VX045008.D

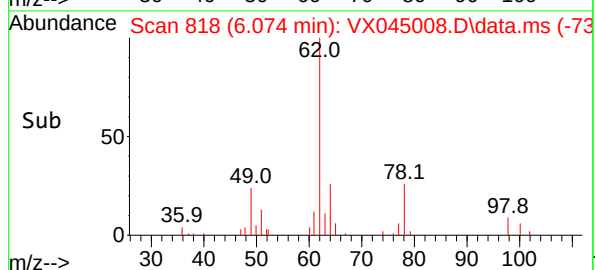
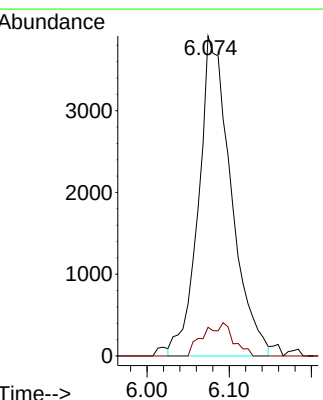
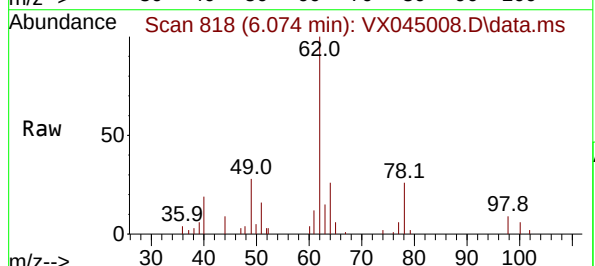
Acq: 21 Feb 2025 09:58

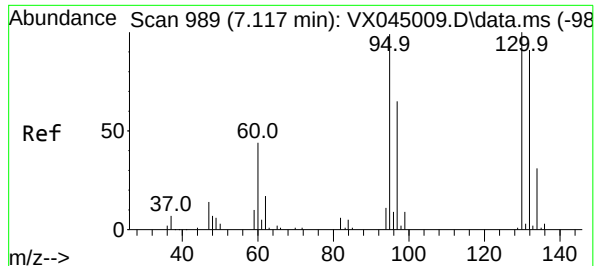
Tgt Ion: 62 Resp: 10725

Ion Ratio Lower Upper

62 100

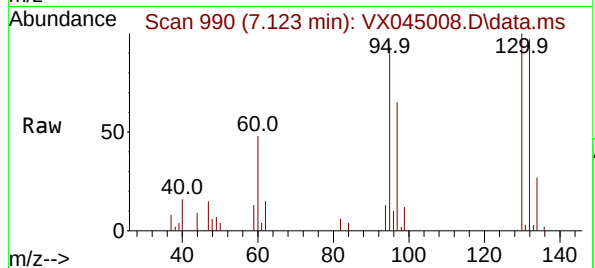
98 3.3 7.9 11.9#





#37  
Trichloroethene  
Concen: 5.031 ug/l  
RT: 7.123 min Scan# 989  
Delta R.T. 0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



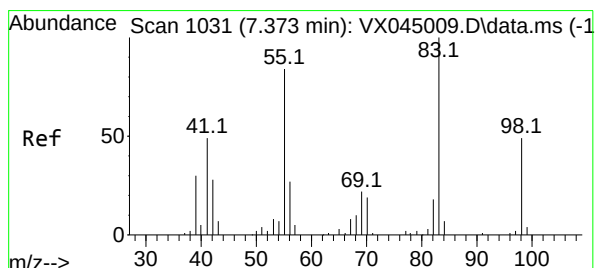
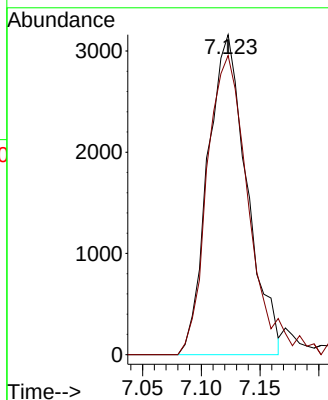
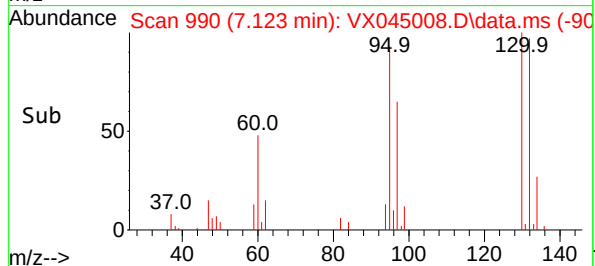
Tgt Ion:130 Resp: 7309  
Ion Ratio Lower Upper  
130 100  
95 93.5 79.0 118.4

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

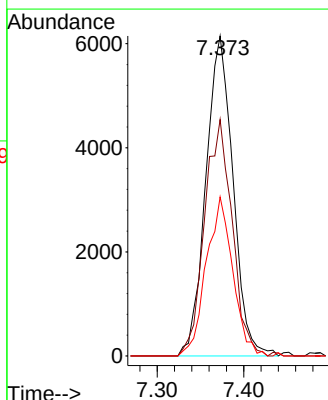
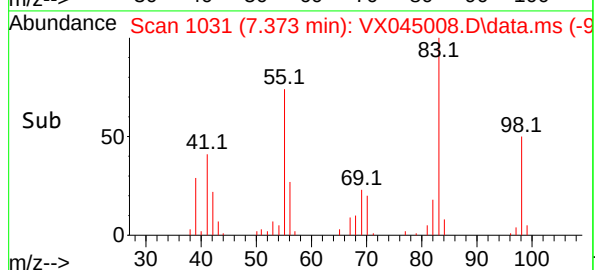
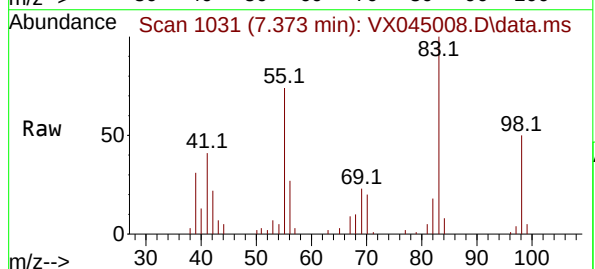
02/24/2025  
Supervised By :Mahesh  
Dadoda

02/24/2025

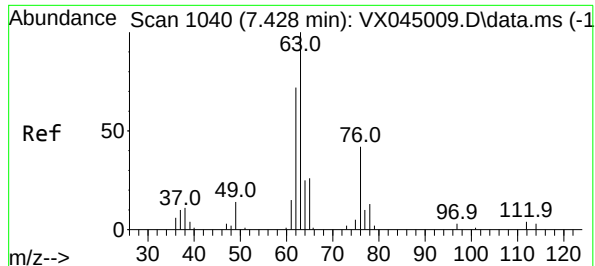


#38  
Methylcyclohexane  
Concen: 5.042 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 83 Resp: 13407  
Ion Ratio Lower Upper  
83 100  
55 75.2 40.6 122.0  
98 48.5 24.9 74.6







#39

1,2-Dichloropropane

Concen: 4.994 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 7710

Ion Ratio Lower Upper

63 100

65 28.4 24.3 36.5

Manual Integrations

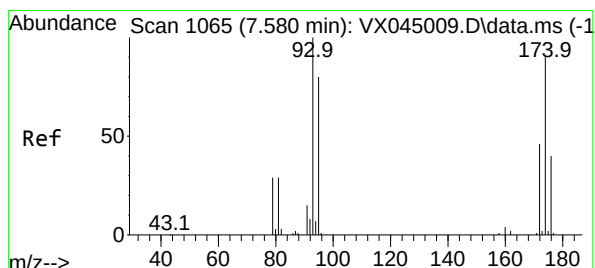
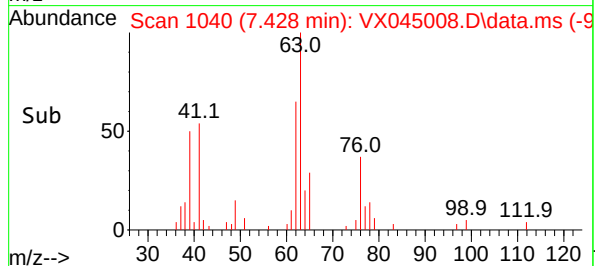
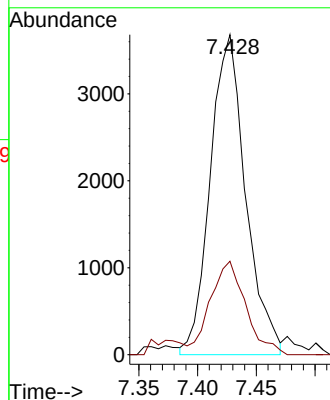
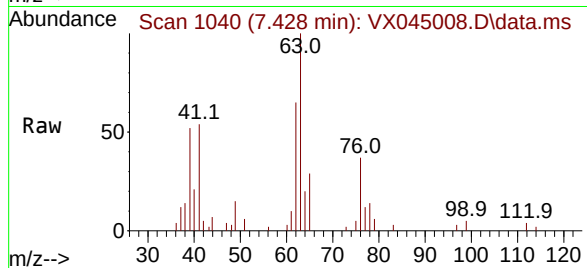
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#40

Dibromomethane

Concen: 5.153 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

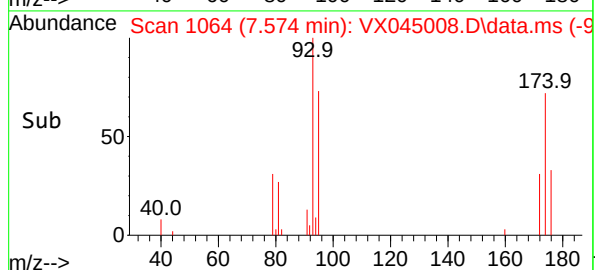
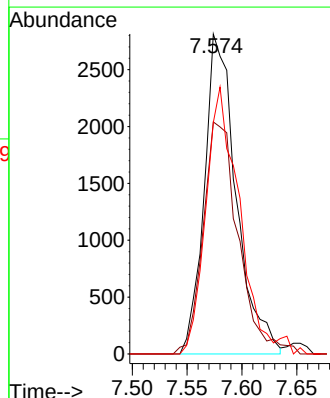
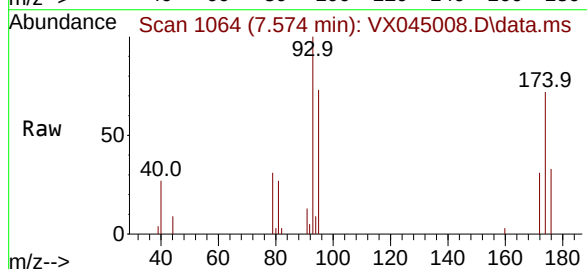
Tgt Ion: 93 Resp: 5709

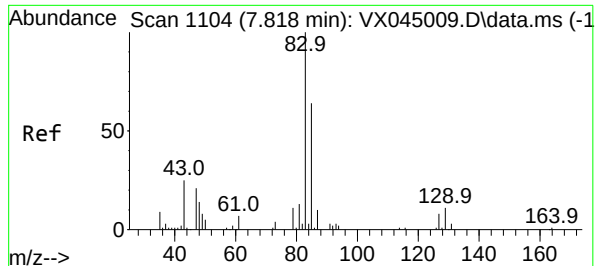
Ion Ratio Lower Upper

93 100

95 79.4 0.0 162.6

174 85.6 0.0 178.8





#41

Bromodichloromethane

Concen: 4.973 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 10949 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 61.6  | 51.0  | 76.6  |
| 127      | 8.9   | 6.1   | 9.1   |

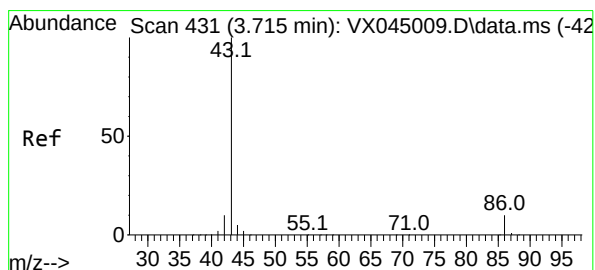
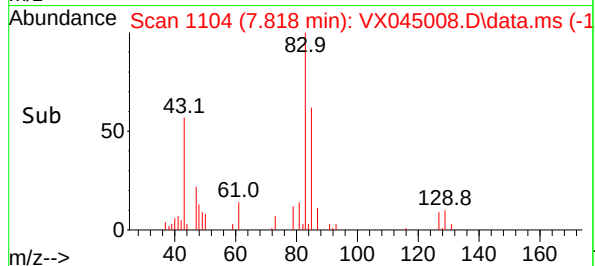
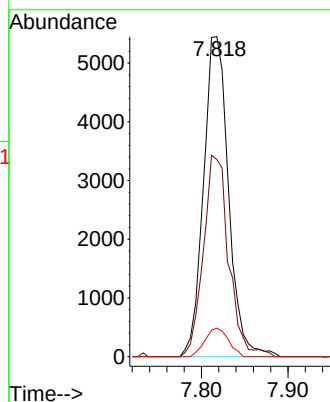
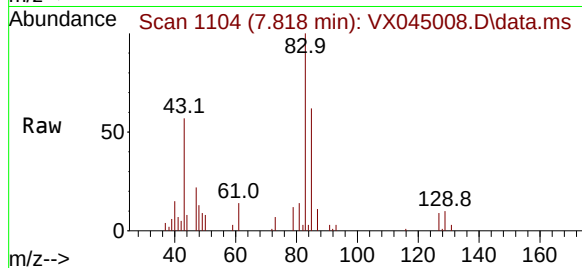
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#42

Vinyl Acetate

Concen: 22.951 ug/l

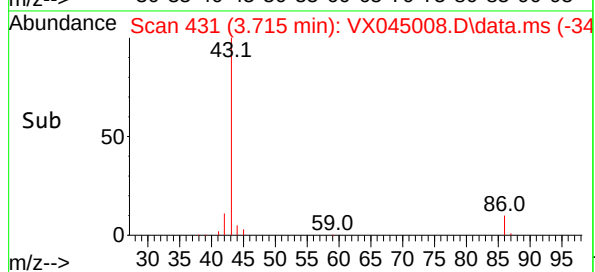
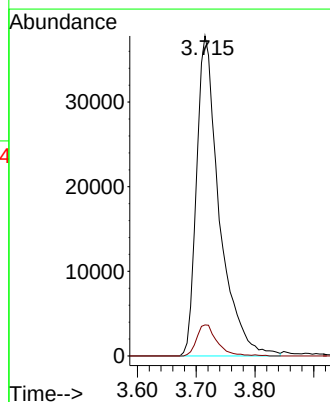
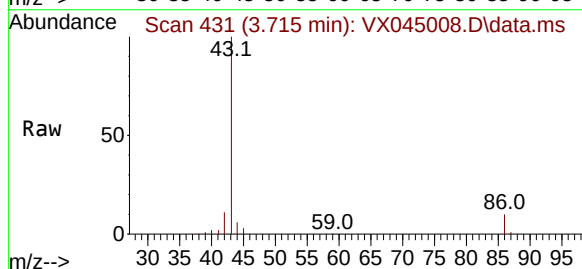
RT: 3.715 min Scan# 431

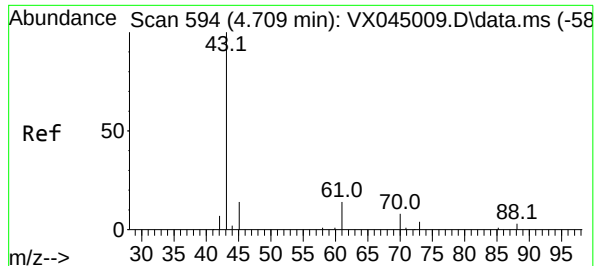
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 101864 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 8.6   | 7.0   | 10.4   |





#43

Ethyl Acetate

Concen: 4.617 ug/l

RT: 4.709 min Scan# 594

Delta R.T. -0.000 min

Lab File: VX045008.D

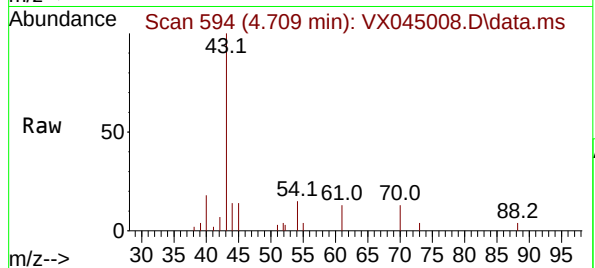
Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005



Tgt Ion: 43 Resp: 990

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 6.6   | 12.7  | 19.1  |

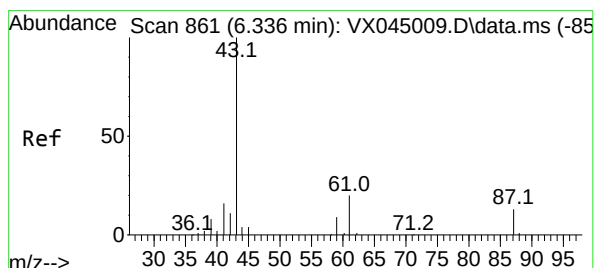
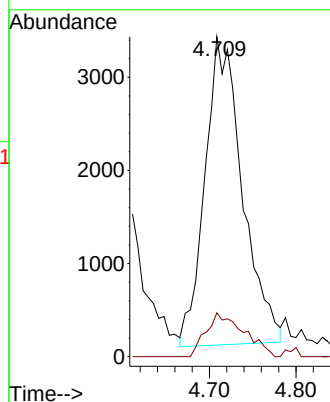
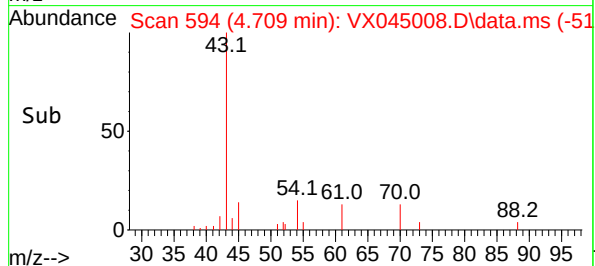
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#44

Isopropyl Acetate

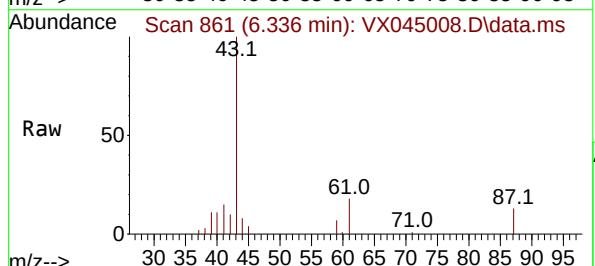
Concen: 4.518 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

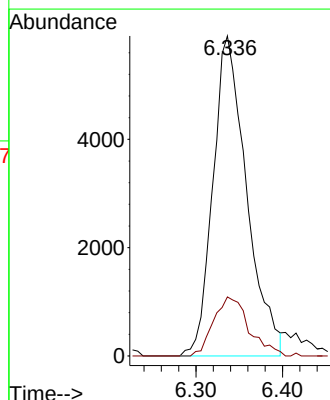
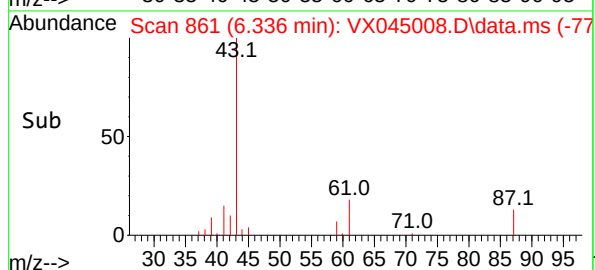
Lab File: VX045008.D

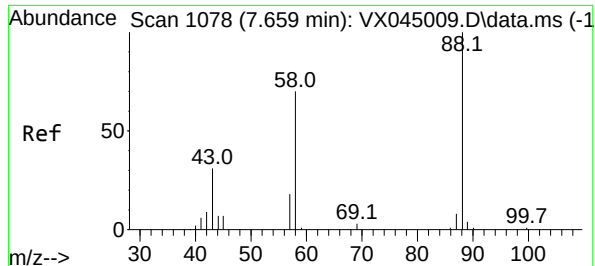
Acq: 21 Feb 2025 09:58



Tgt Ion: 43 Resp: 15951

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 17.2  | 15.5  | 23.3  |





#45

1,4-Dioxane

Concen: 94.718 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

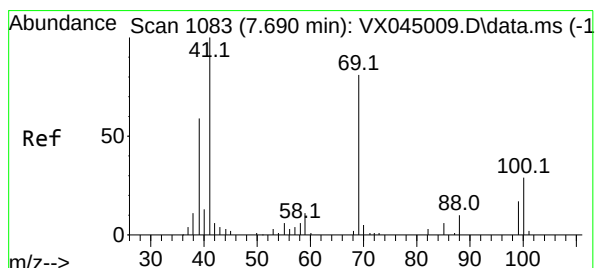
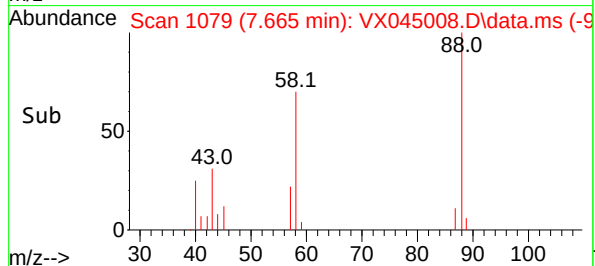
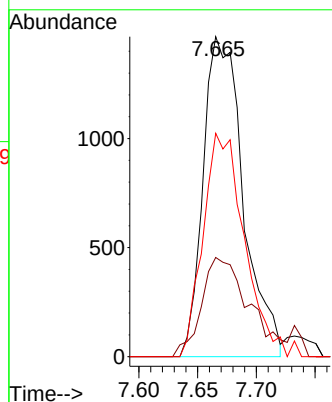
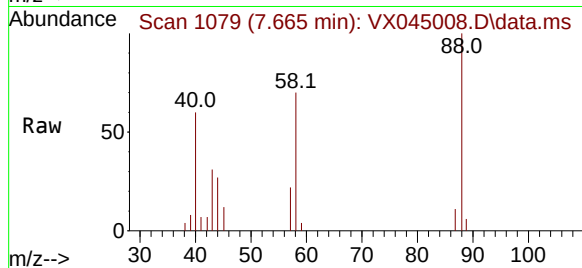
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 3470  |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 43 28.7     | 29.6 44.4   |
| 58 71.4     | 56.2 84.4   |

Manual Integrations  
APPROVEDReviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#46

Methyl methacrylate

Concen: 4.362 ug/l

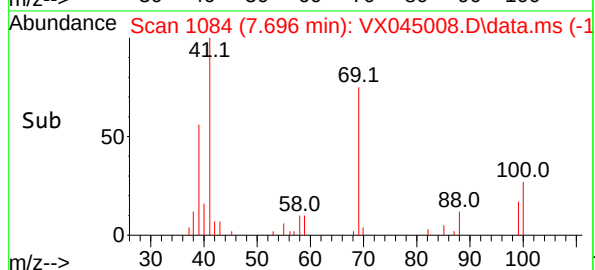
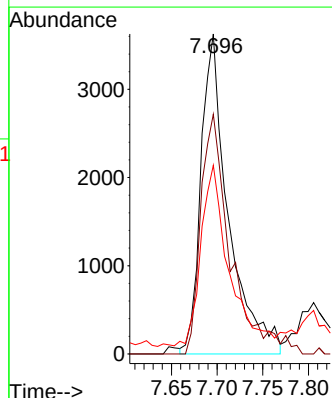
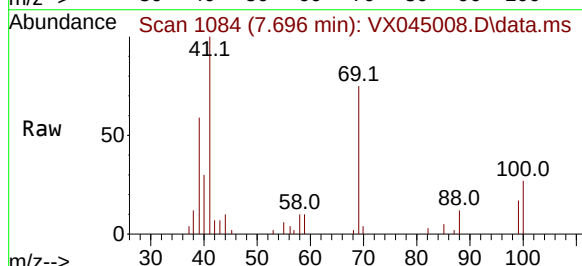
RT: 7.696 min Scan# 1084

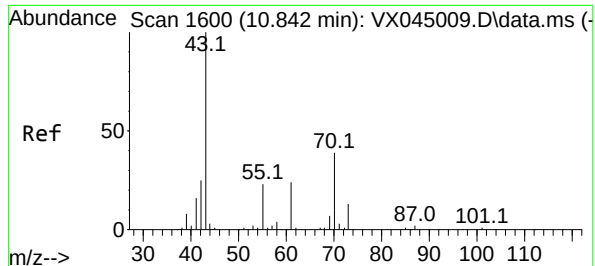
Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 7550  |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 76.2     | 40.7 122.1  |
| 39 55.9     | 29.5 88.5   |





#47

n-amyl acetate

Concen: 4.221 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 1293

Ion Ratio Lower Upper

43 100

55 22.9 18.6 27.8

Manual Integrations

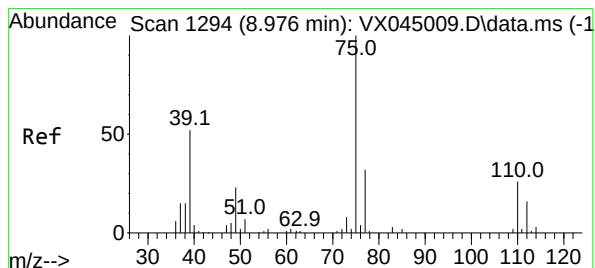
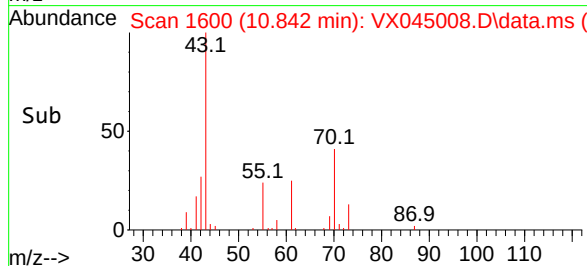
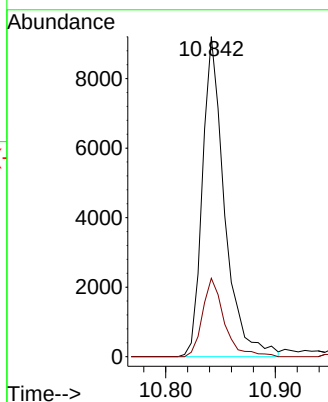
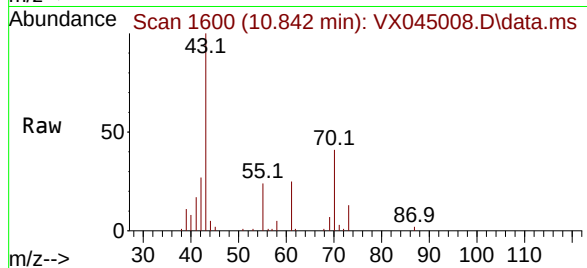
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#48

t-1,3-Dichloropropene

Concen: 4.458 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045008.D

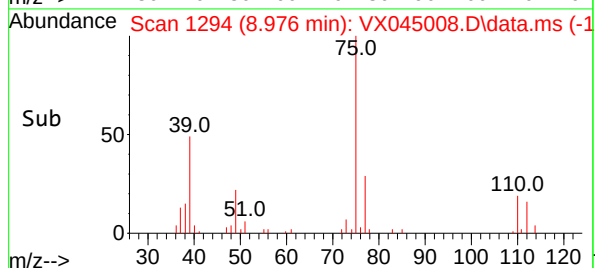
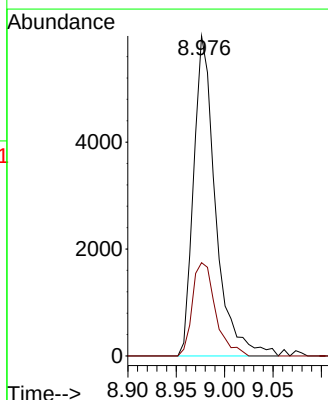
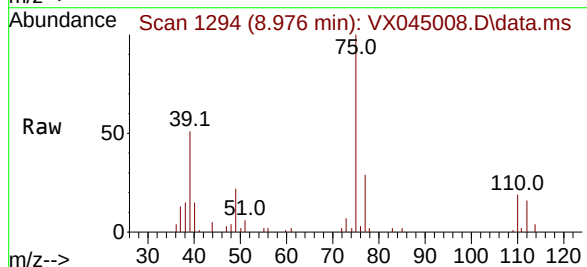
Acq: 21 Feb 2025 09:58

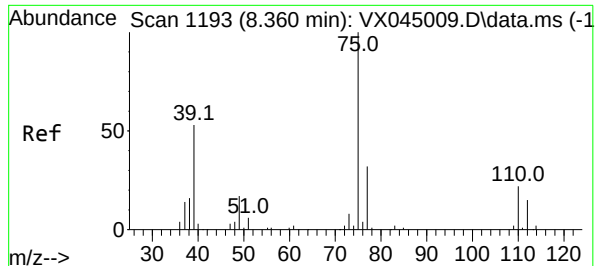
Tgt Ion: 75 Resp: 9461

Ion Ratio Lower Upper

75 100

77 29.2 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 4.585 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

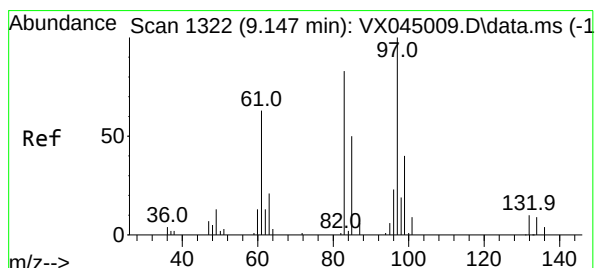
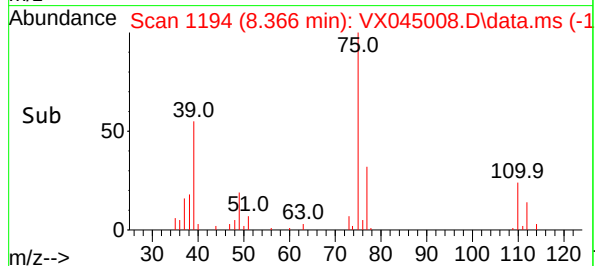
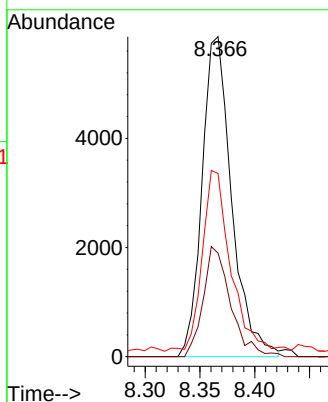
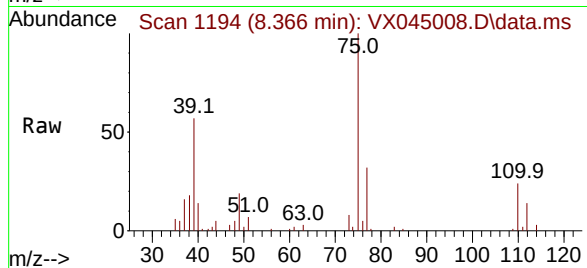
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11010 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 32.3  | 25.9  | 38.9  |
| 39       | 54.7  | 42.3  | 63.5  |

**Manual Integrations**  
**APPROVED**Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#50

1,1,2-Trichloroethane

Concen: 5.030 ug/l

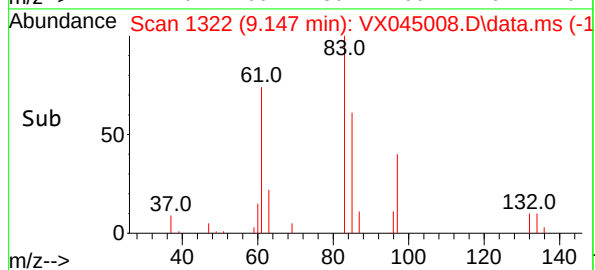
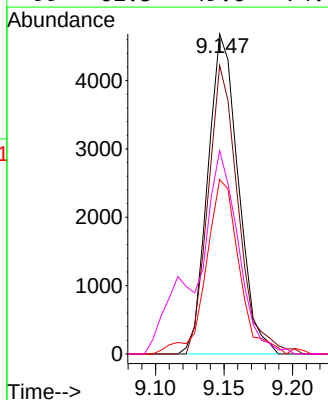
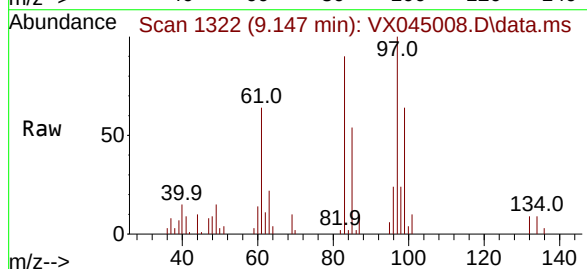
RT: 9.147 min Scan# 1322

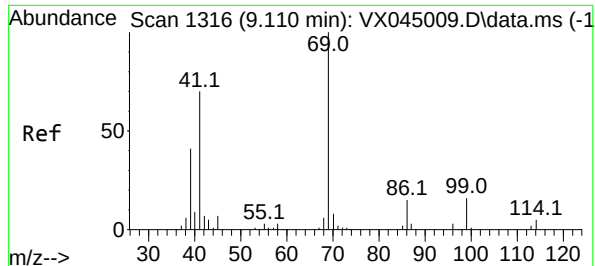
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7268  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 90.2  | 66.0  | 99.0  |
| 85       | 52.5  | 42.5  | 63.7  |
| 99       | 62.3  | 49.6  | 74.4  |





#51

Ethyl methacrylate

Concen: 4.287 ug/l

RT: 9.116 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 69 Resp: 974

Ion Ratio Lower Upper

69 100

41 68.6 35.1 105.3

39 38.2 20.5 61.6

Manual Integrations

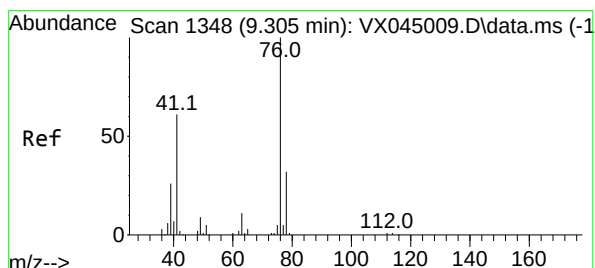
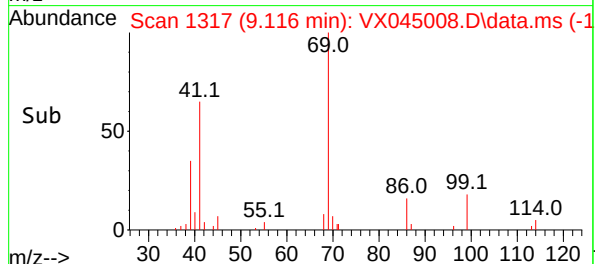
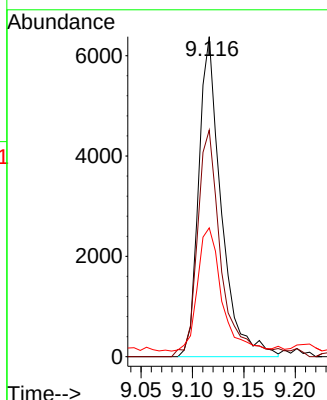
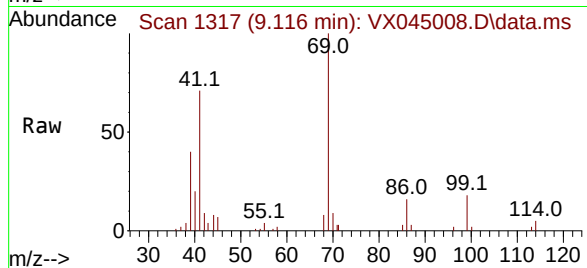
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#52

1,3-Dichloropropane

Concen: 4.981 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045008.D

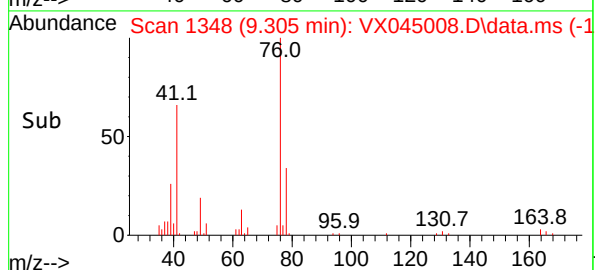
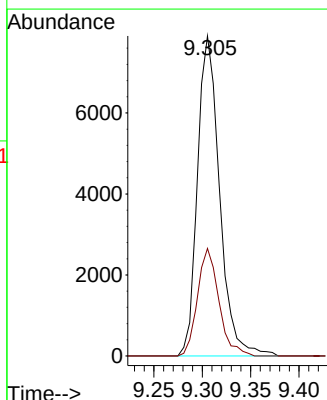
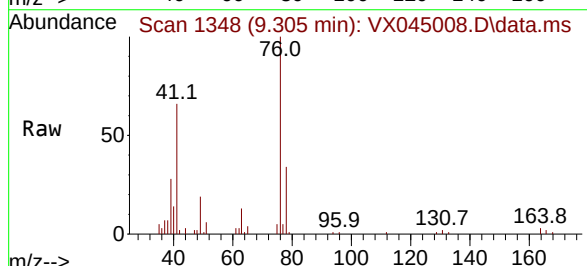
Acq: 21 Feb 2025 09:58

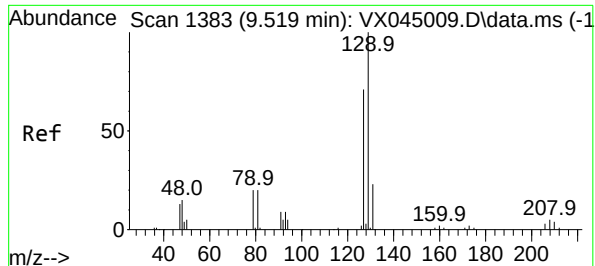
Tgt Ion: 76 Resp: 12611

Ion Ratio Lower Upper

76 100

78 32.5 0.0 63.6





#53

Dibromochloromethane

Concen: 4.791 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion:129 Resp: 765

Ion Ratio Lower Upper

129 100

127 77.3 37.3 111.9

Manual Integrations

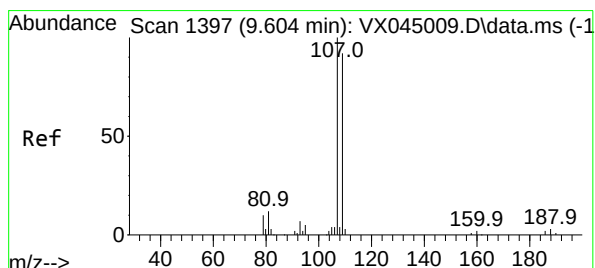
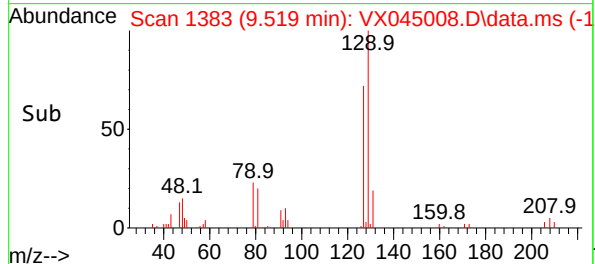
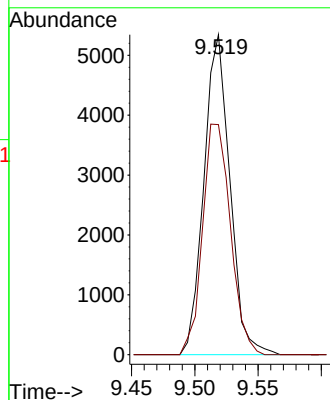
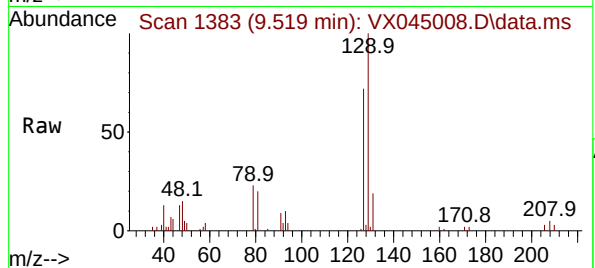
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#54

1,2-Dibromoethane

Concen: 4.851 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX045008.D

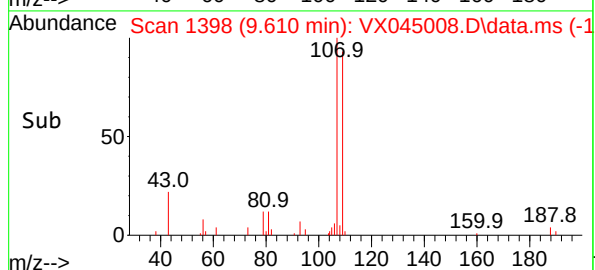
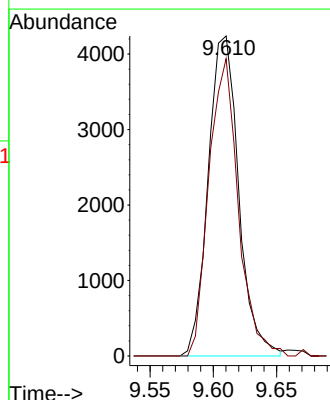
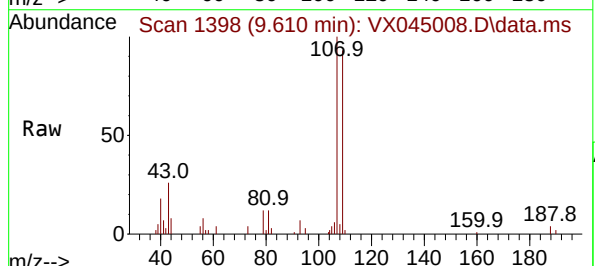
Acq: 21 Feb 2025 09:58

Tgt Ion:107 Resp: 7119

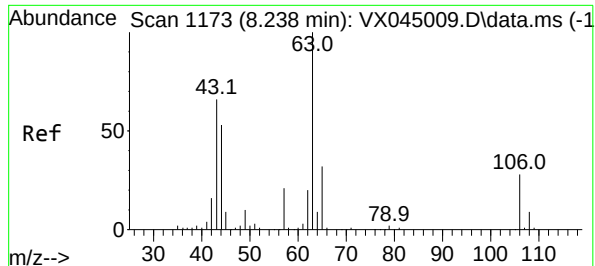
Ion Ratio Lower Upper

107 100

109 89.5 75.8 113.8







#55

2-Chloroethyl vinyl ether

Concen: 23.123 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2698  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 30.5  | 26.2  | 39.2  |
| 106      | 27.2  | 21.2  | 31.8  |

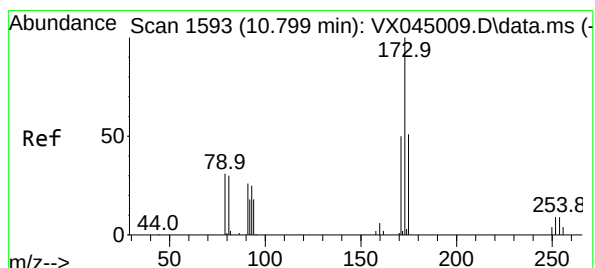
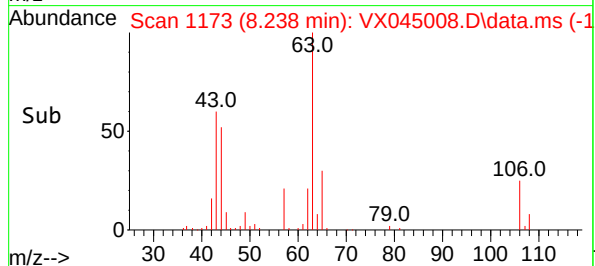
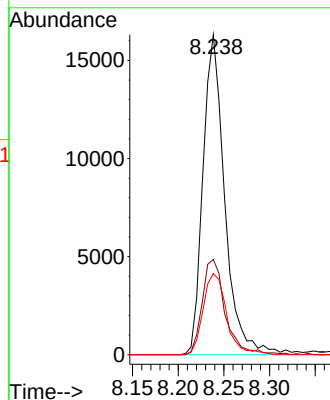
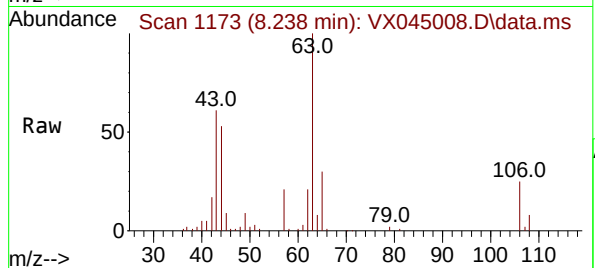
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#56

Bromoform

Concen: 4.491 ug/l

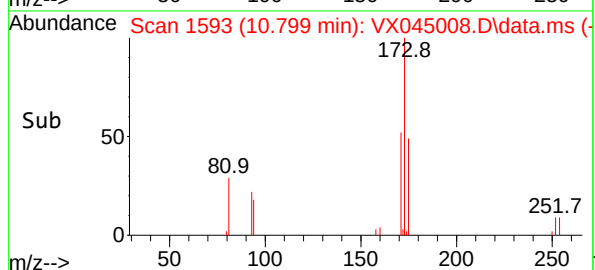
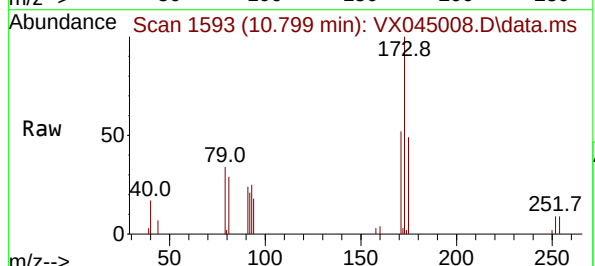
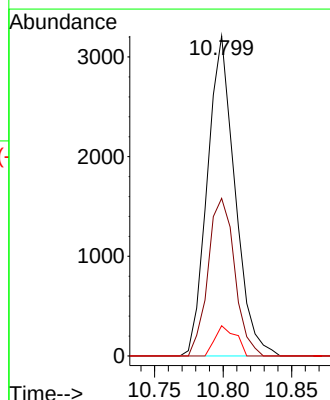
RT: 10.799 min Scan# 1593

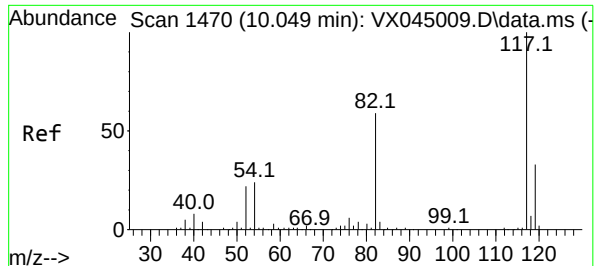
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 4498  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 47.6  | 39.6  | 59.4  |
| 254      | 7.2   | 6.3   | 9.5   |





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

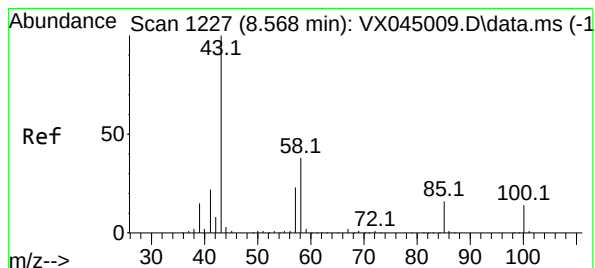
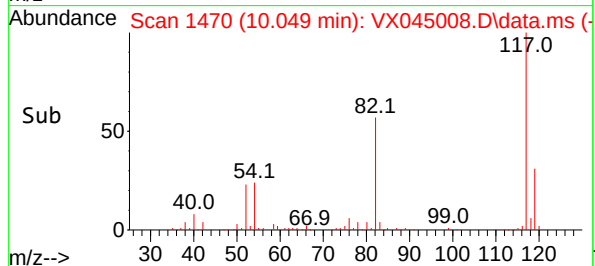
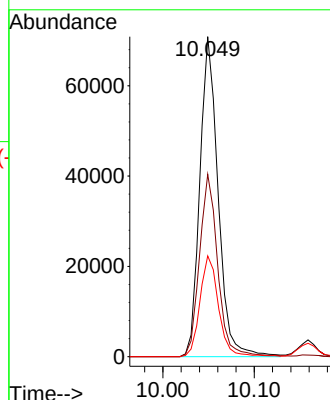
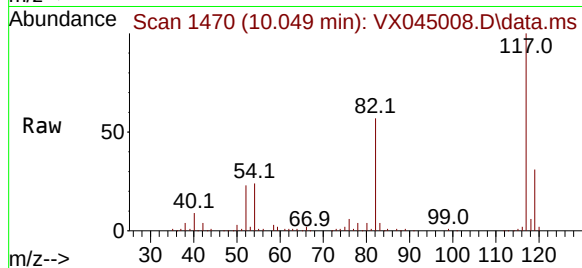
Tgt Ion: 117 Resp: 9866  
Ion Ratio Lower Upper  
117 100  
82 57.0 45.8 68.8  
119 32.0 25.5 38.3

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

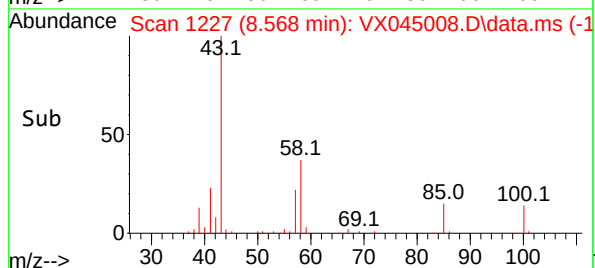
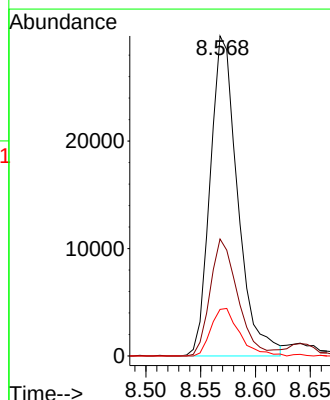
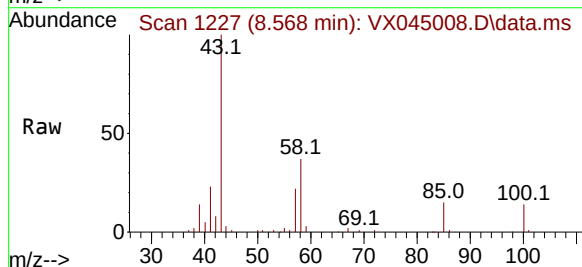
02/24/2025  
Supervised By :Mahesh  
Dadoda

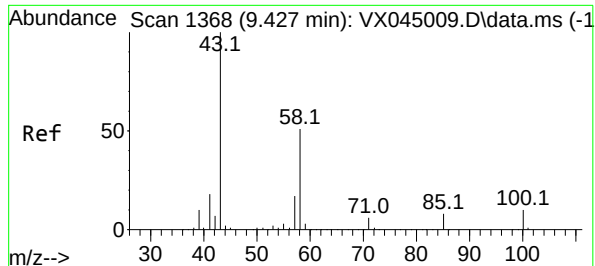
02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 23.177 ug/l  
RT: 8.568 min Scan# 1227  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 52017  
Ion Ratio Lower Upper  
43 100  
58 36.3 29.5 44.3  
85 15.3 12.9 19.3





#59

2-Hexanone

Concen: 22.584 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

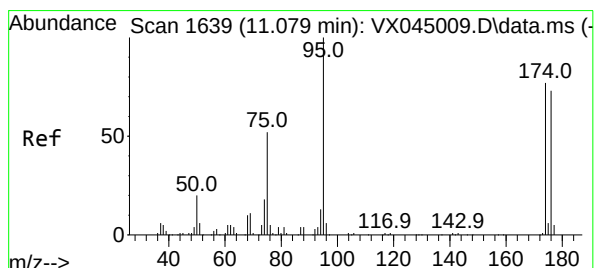
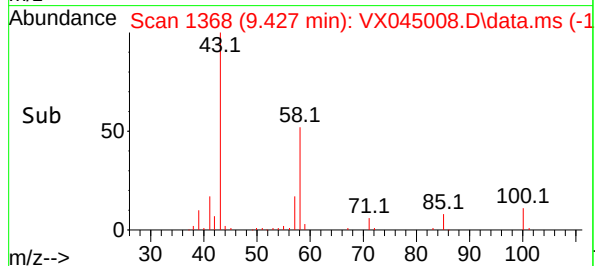
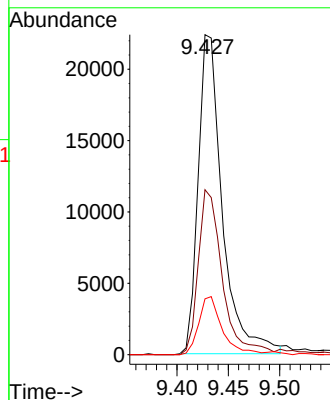
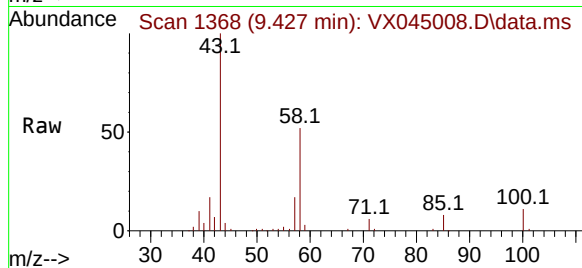
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 3663  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 51.4     | 41.6 62.4   |
| 57 17.6     | 13.8 20.6   |

Manual Integrations  
APPROVEDReviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#60

4-Bromofluorobenzene

Concen: 28.855 ug/l

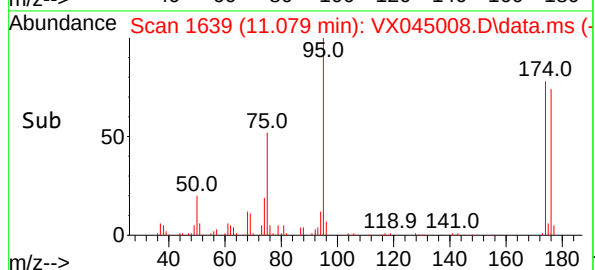
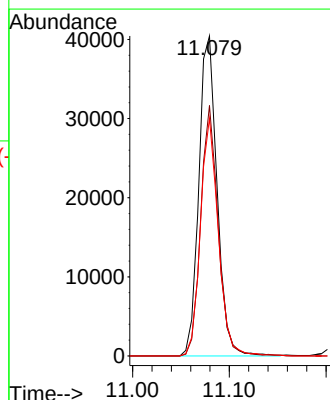
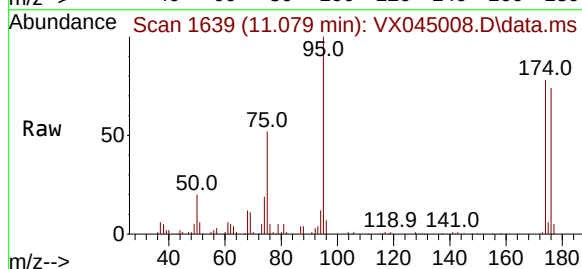
RT: 11.079 min Scan# 1639

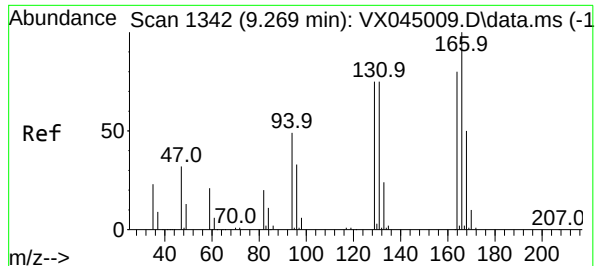
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

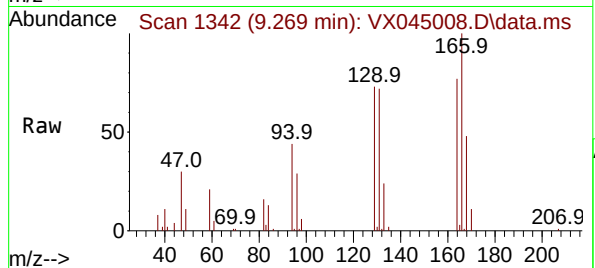
|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 53212 |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 174 74.3    | 59.5 89.3   |
| 176 72.7    | 55.5 83.3   |





#61  
Tetrachloroethene  
Concen: 5.269 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



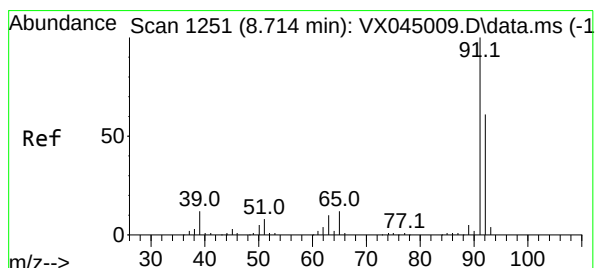
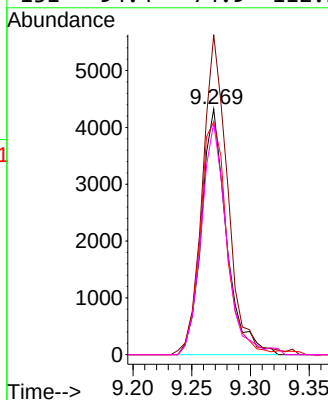
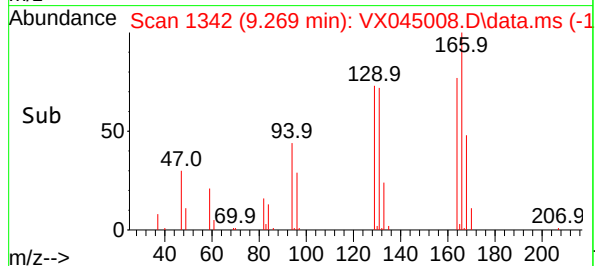
Tgt Ion:164 Resp: 640  
Ion Ratio Lower Upper  
164 100  
166 128.6 100.3 150.5  
129 94.8 75.5 113.3  
131 94.4 74.9 112.3

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

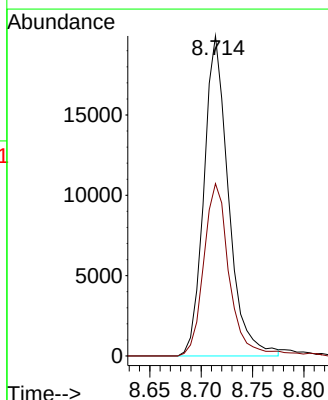
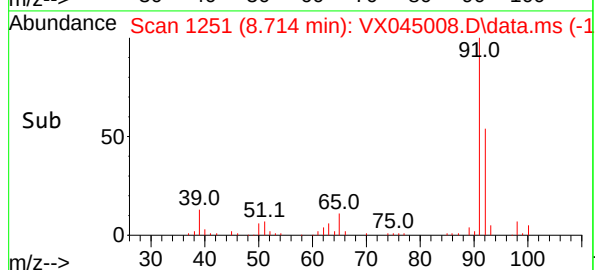
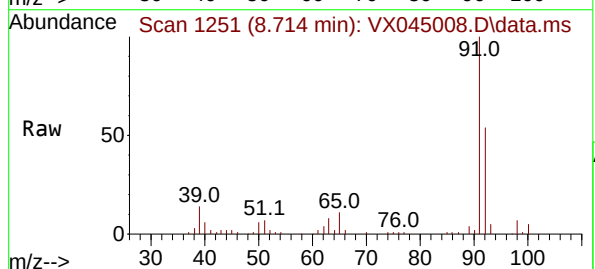
02/24/2025  
Supervised By :Mahesh  
Dadoda

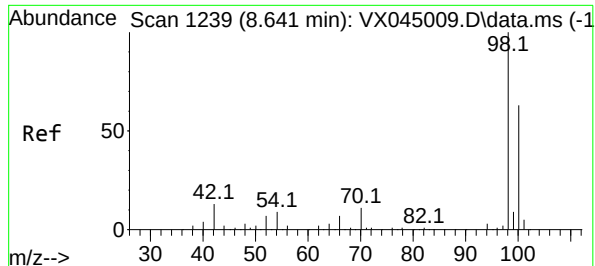
02/24/2025



#62  
Toluene  
Concen: 5.071 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 33141  
Ion Ratio Lower Upper  
91 100  
92 55.1 46.9 70.3





#63  
Toluene-d8  
Concen: 29.865 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

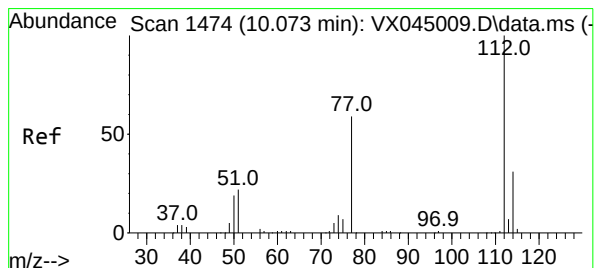
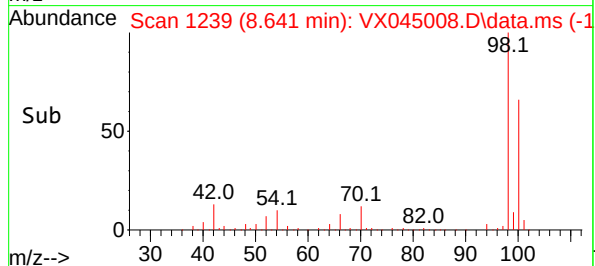
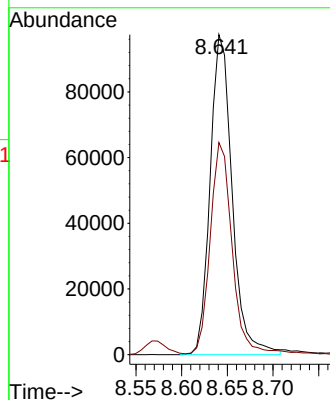
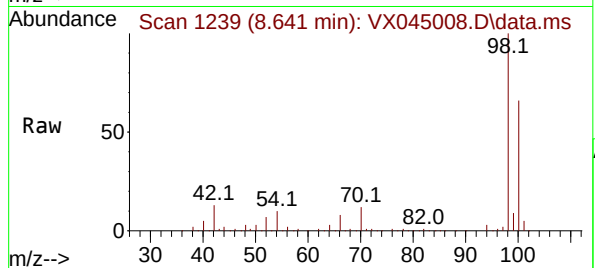
Tgt Ion: 98 Resp: 163004  
Ion Ratio Lower Upper  
98 100  
100 66.6 51.7 77.5

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

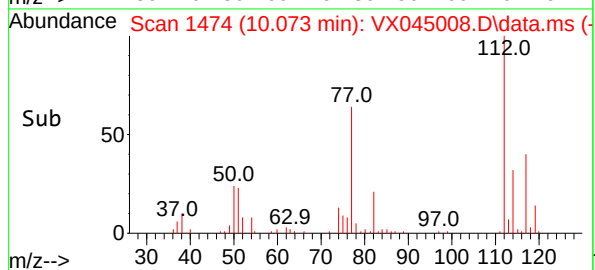
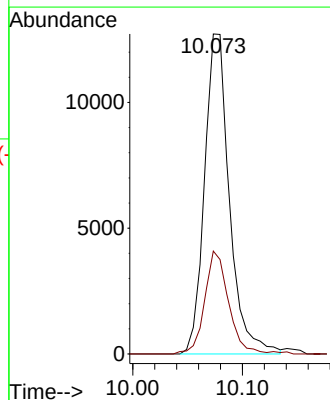
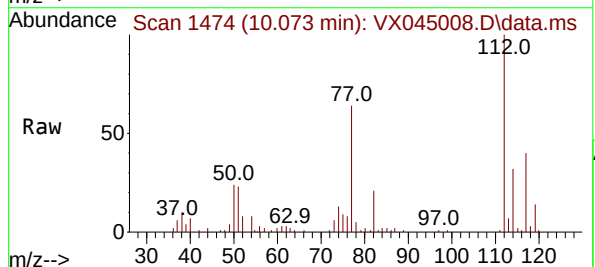
02/24/2025  
Supervised By :Mahesh  
Dadoda

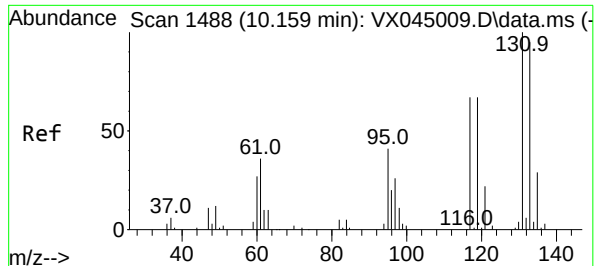
02/24/2025



#64  
Chlorobenzene  
Concen: 4.965 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

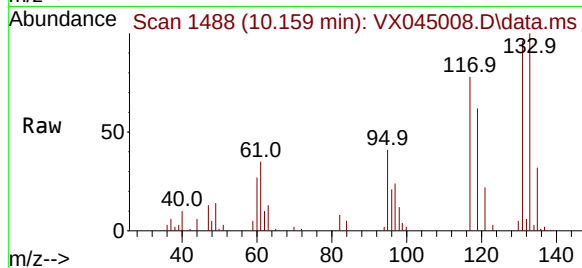
Tgt Ion:112 Resp: 20106  
Ion Ratio Lower Upper  
112 100  
114 31.7 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 4.934 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



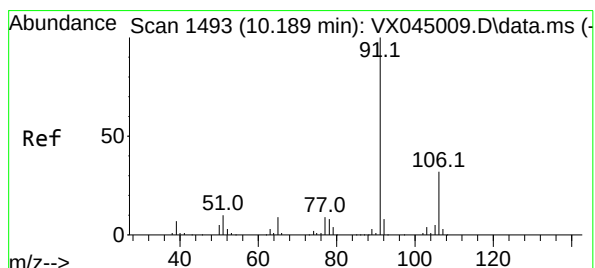
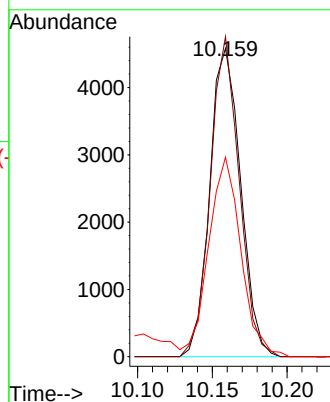
Tgt Ion:131 Resp: 659  
Ion Ratio Lower Upper  
131 100  
133 96.7 0.0 187.8  
119 67.3 0.0 133.0

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

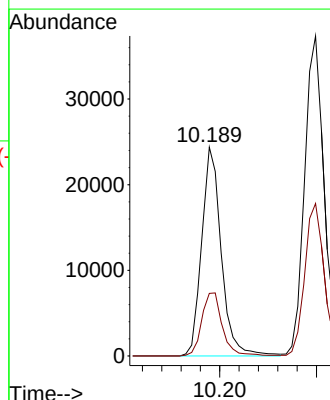
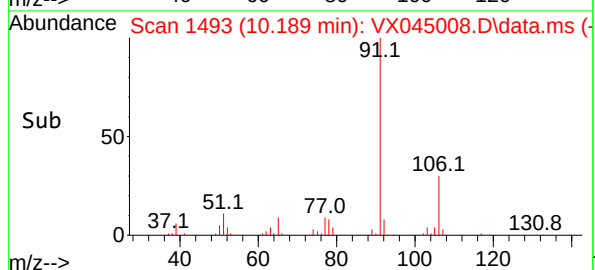
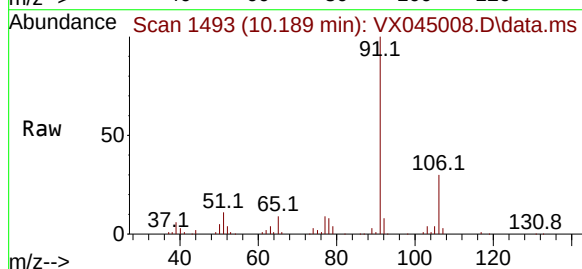
02/24/2025  
Supervised By :Mahesh  
Dadoda

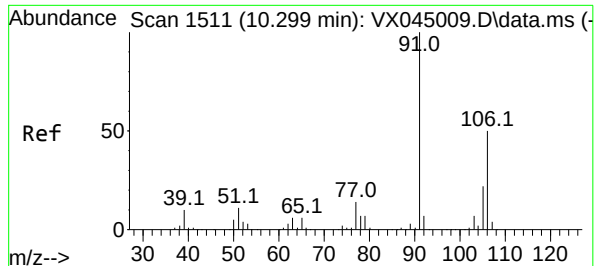
02/24/2025



#66  
Ethyl Benzene  
Concen: 4.813 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 34439  
Ion Ratio Lower Upper  
91 100  
106 29.9 25.4 38.2





#67  
m/p-Xylenes  
Concen: 9.679 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

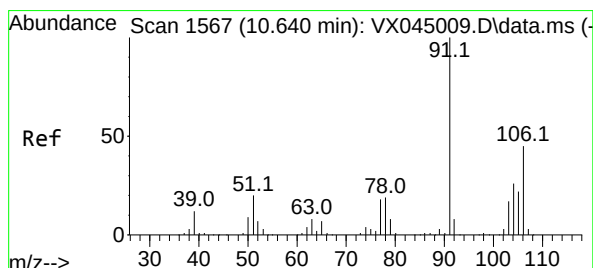
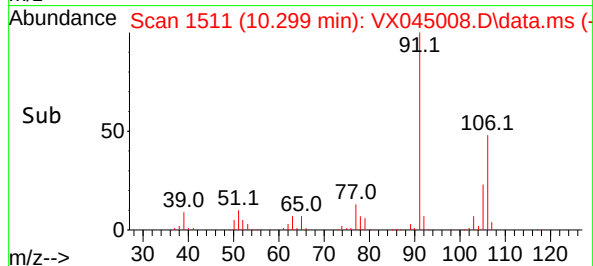
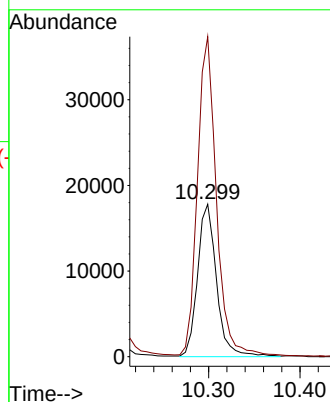
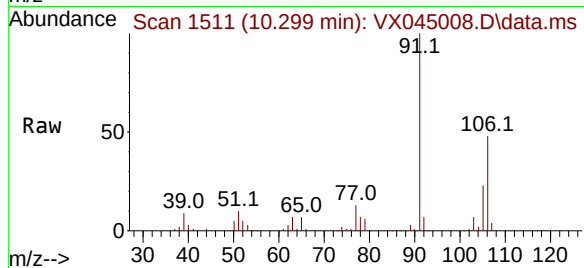
Tgt Ion:106 Resp: 25804  
Ion Ratio Lower Upper  
106 100  
91 208.2 163.7 245.5

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

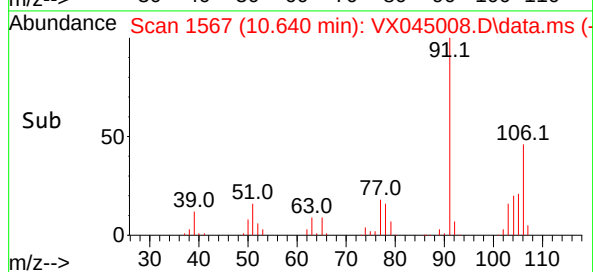
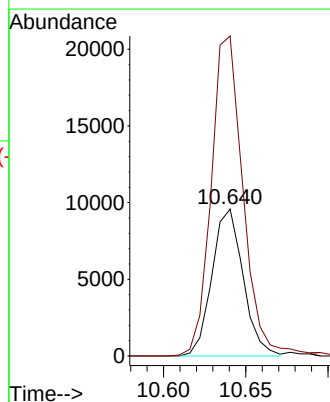
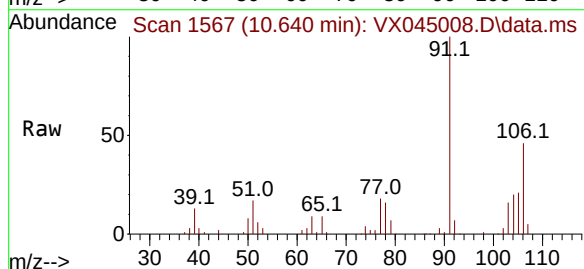
02/24/2025  
Supervised By :Mahesh  
Dadoda

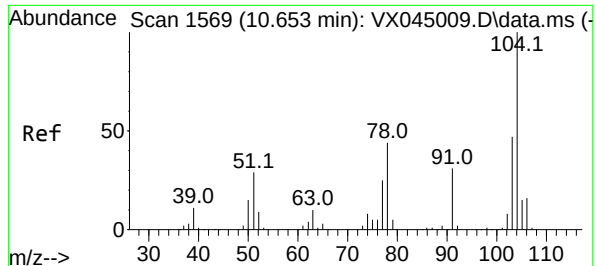
02/24/2025



#68  
o-Xylene  
Concen: 4.824 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion:106 Resp: 12618  
Ion Ratio Lower Upper  
106 100  
91 223.5 109.7 329.1





#69

Styrene

Concen: 4.741 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:104 | Resp: | 20710       |
| Ion         | Ratio | Lower Upper |
| 104         | 100   |             |
| 78          | 48.4  | 41.4 62.0   |
| 103         | 54.4  | 43.0 64.4   |

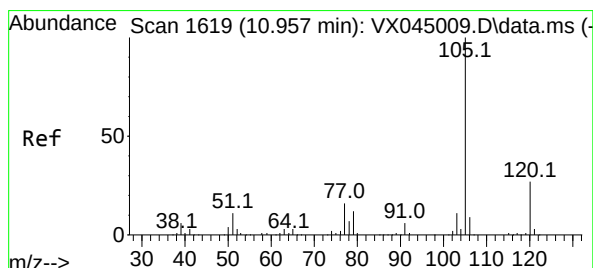
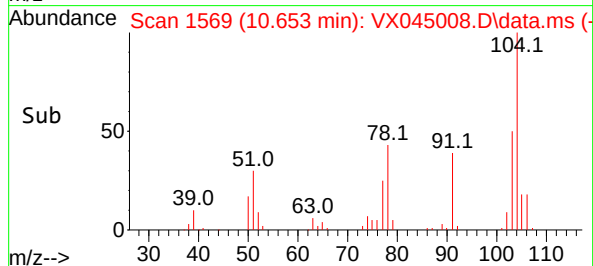
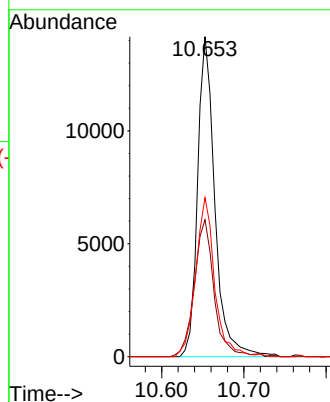
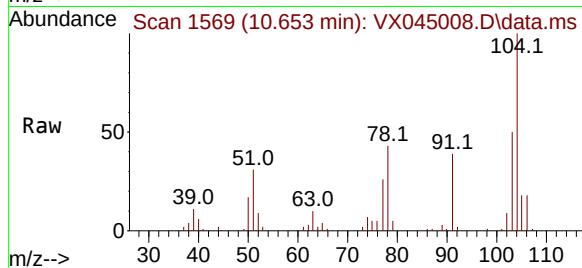
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#70

Isopropylbenzene

Concen: 4.826 ug/l

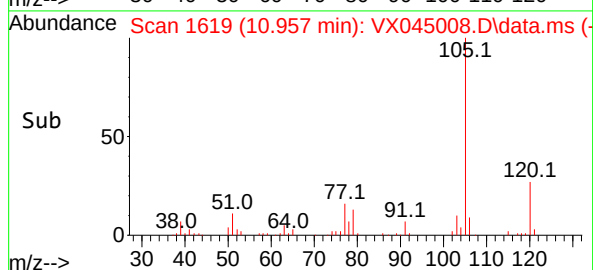
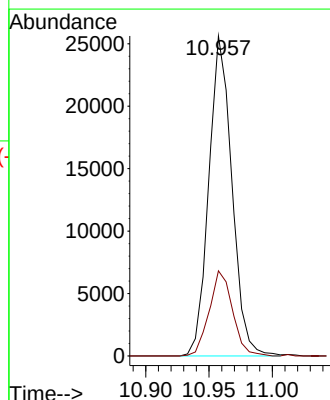
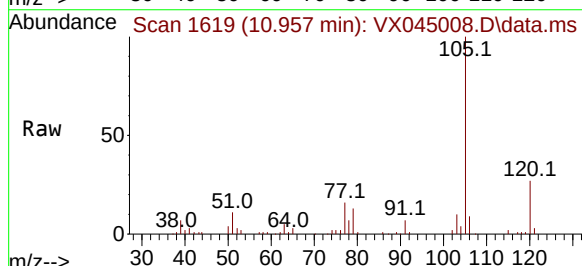
RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

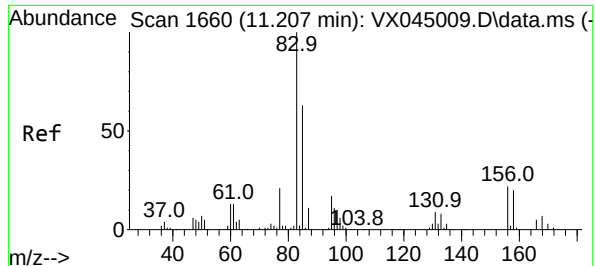
Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:105 | Resp: | 32576       |
| Ion         | Ratio | Lower Upper |
| 105         | 100   |             |
| 120         | 26.8  | 18.4 34.2   |







#71  
1,1,2,2-Tetrachloroethane  
Concen: 4.929 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

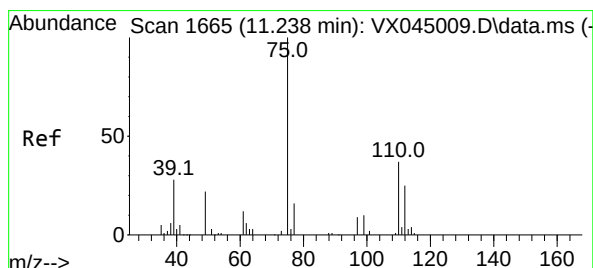
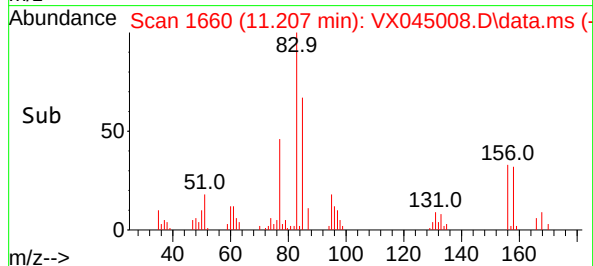
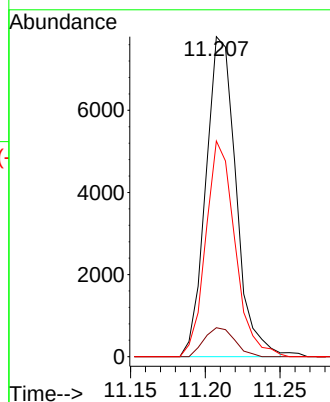
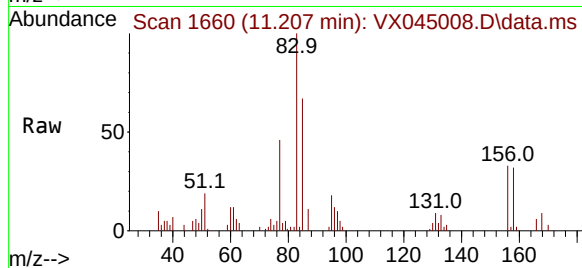
Tgt Ion: 83 Resp: 10940  
Ion Ratio Lower Upper  
83 100  
131 9.1 4.8 14.3  
85 65.5 32.3 96.8

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

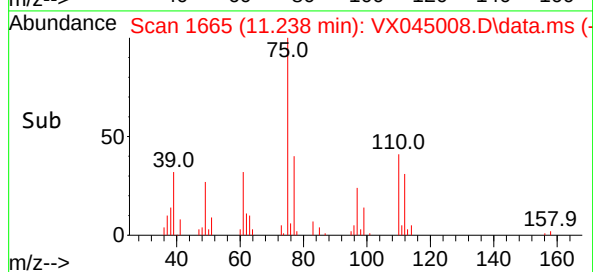
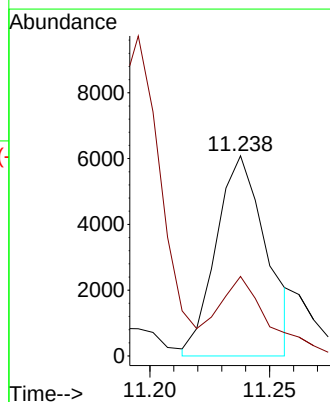
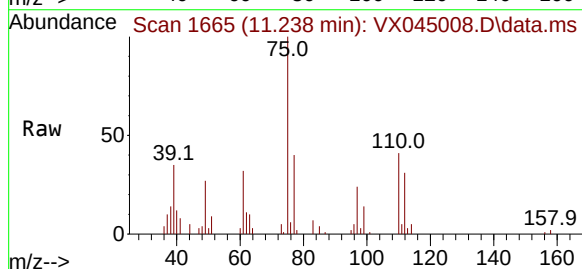
02/24/2025  
Supervised By :Mahesh  
Dadoda

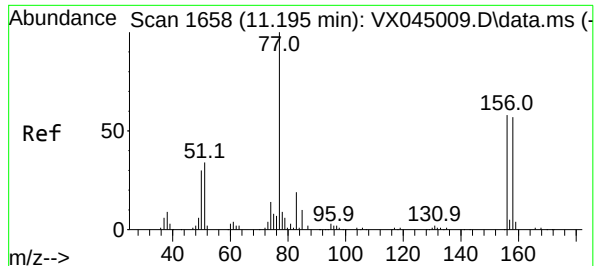
02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 4.851 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 8856  
Ion Ratio Lower Upper  
75 100  
77 40.4 0.0 84.0





#73  
Bromobenzene  
Concen: 4.886 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

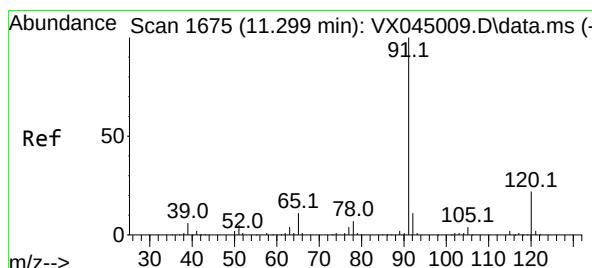
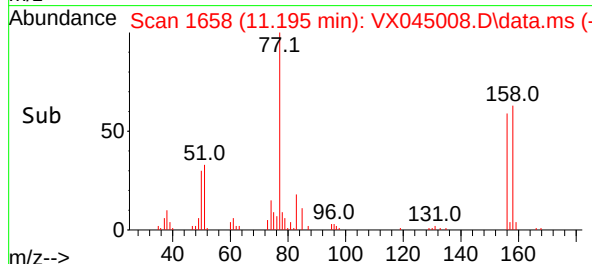
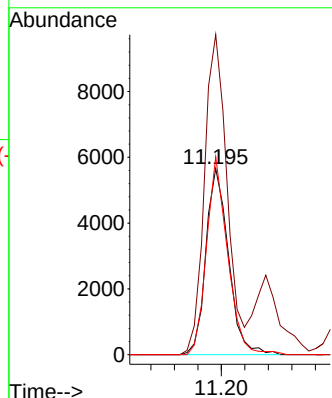
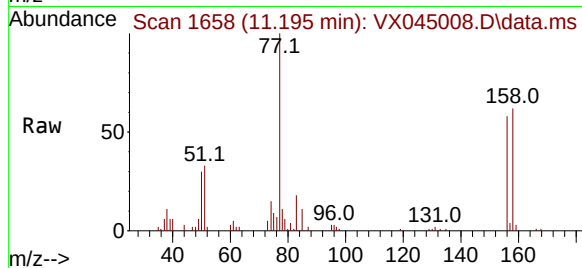
Tgt Ion:156 Resp: 7592  
Ion Ratio Lower Upper  
156 100  
77 170.9 0.0 347.2  
158 98.2 0.0 197.6

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

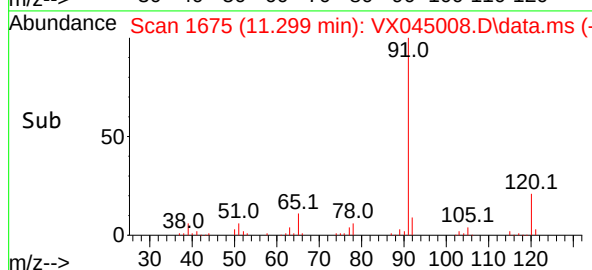
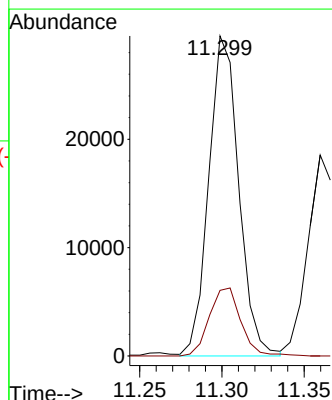
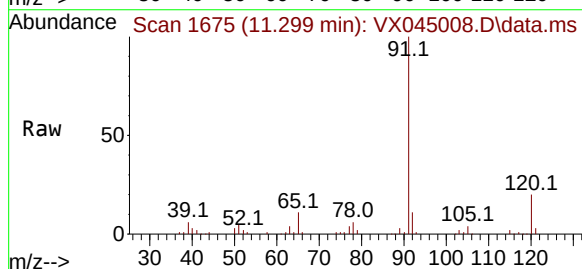
02/24/2025  
Supervised By :Mahesh  
Dadoda

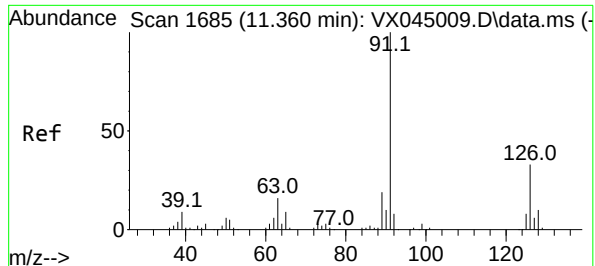
02/24/2025



#74  
n-propylbenzene  
Concen: 4.669 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 37507  
Ion Ratio Lower Upper  
91 100  
120 22.3 0.0 44.2





#75  
2-Chlorotoluene  
Concen: 4.961 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

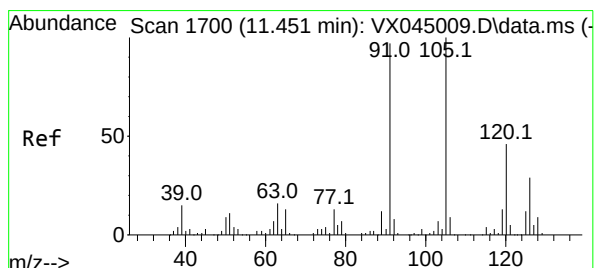
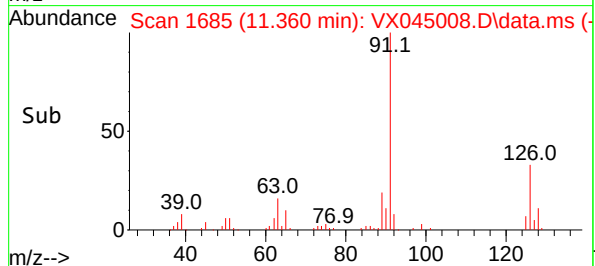
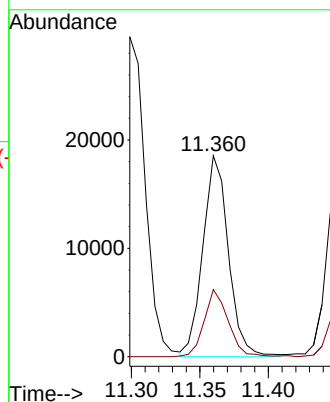
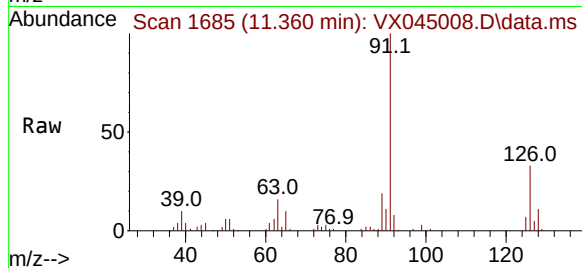
Tgt Ion: 91 Resp: 2409  
Ion Ratio Lower Upper  
91 100  
126 31.2 0.0 65.4

Manual Integrations  
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Reviewed By :John  
Carlone

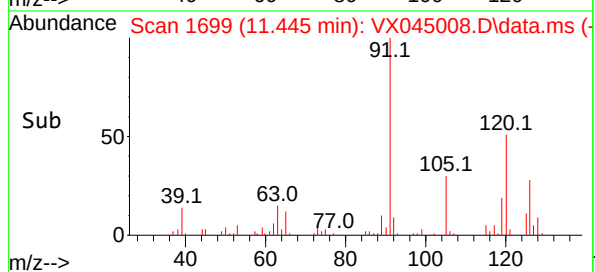
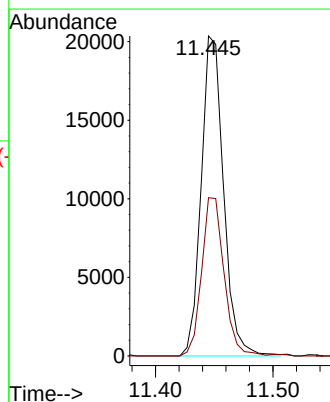
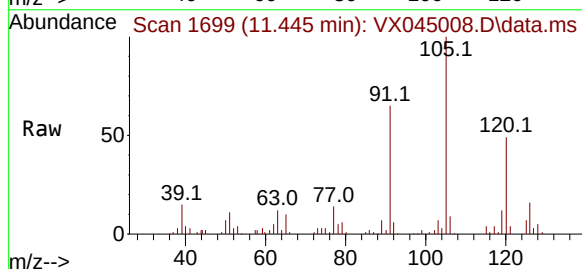
02/24/2025  
Supervised By :Mahesh  
Dadoda

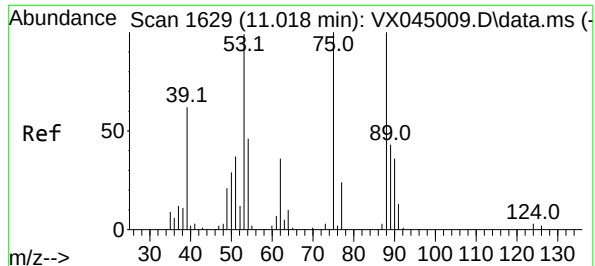
02/24/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 4.837 ug/l  
RT: 11.445 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

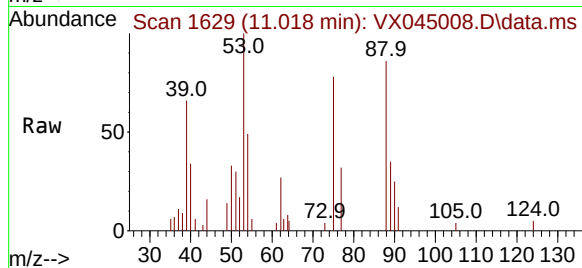
Tgt Ion:105 Resp: 26935  
Ion Ratio Lower Upper  
105 100  
120 49.5 0.0 94.4





#77  
t-1,4-Dichloro-2-butene  
Concen: 3.552 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



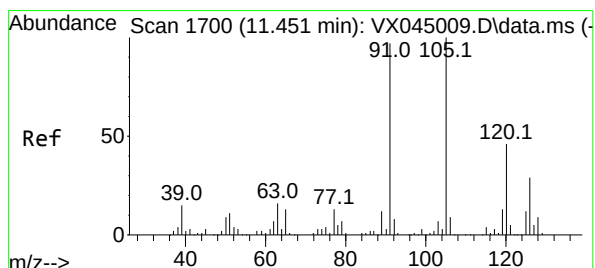
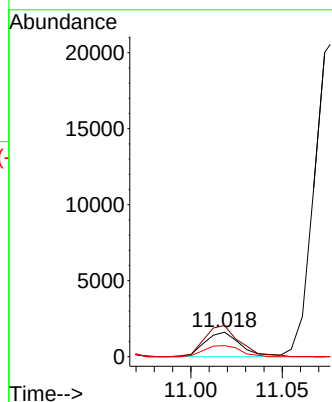
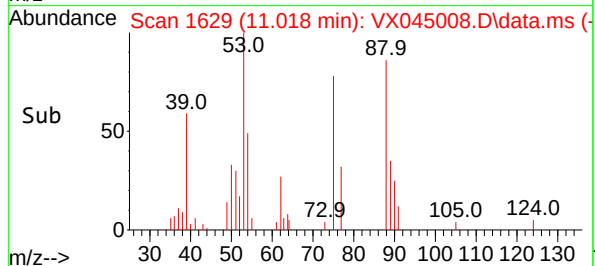
Tgt Ion: 75 Resp: 218  
Ion Ratio Lower Upper  
75 100  
53 123.8 49.8 149.4  
89 45.4 21.4 64.2

Manual Integrations  
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Reviewed By :John  
Carlone

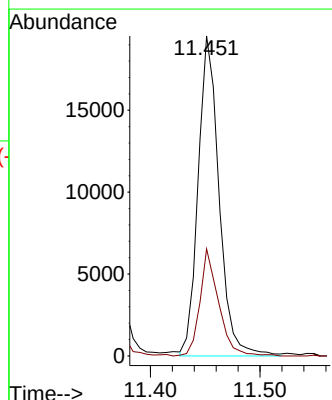
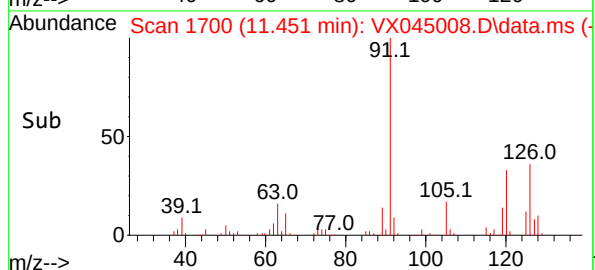
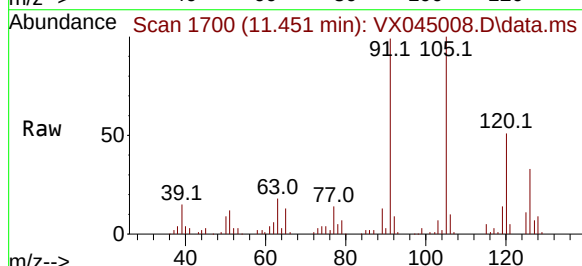
02/24/2025  
Supervised By :Mahesh  
Dadoda

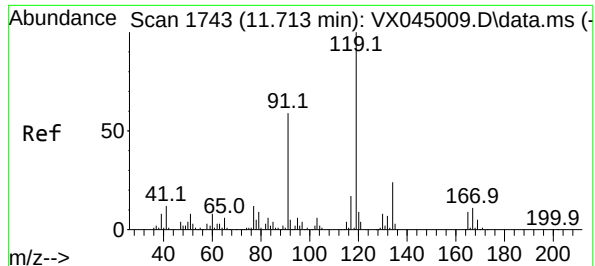
02/24/2025



#78  
4-Chlorotoluene  
Concen: 4.800 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 25983  
Ion Ratio Lower Upper  
91 100  
126 29.6 0.0 58.0





#79  
tert-butylbenzene  
Concen: 4.772 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

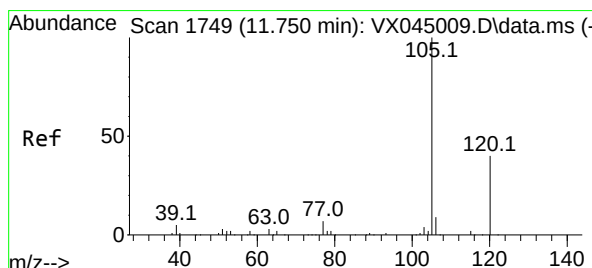
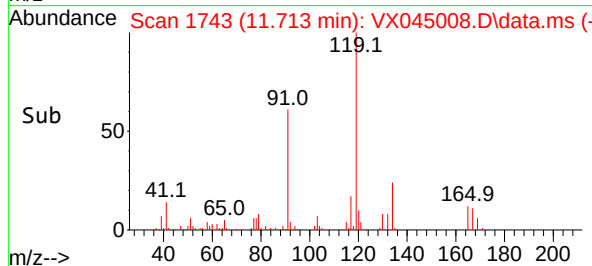
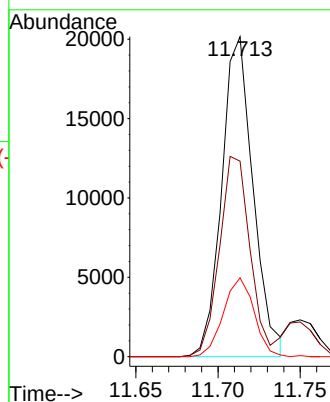
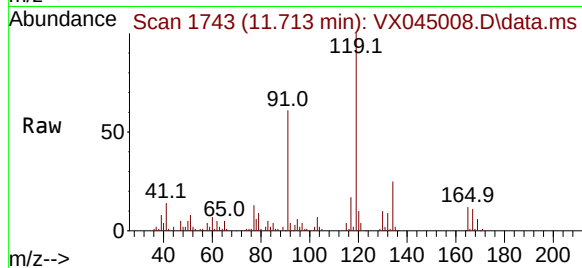
Tgt Ion:119 Resp: 2677  
Ion Ratio Lower Upper  
119 100  
91 60.8 0.0 120.6  
134 24.1 0.0 48.2

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

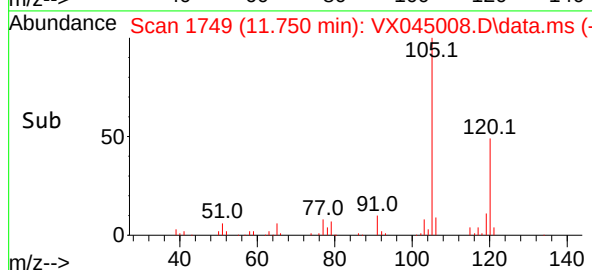
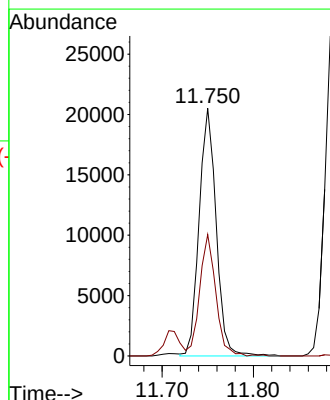
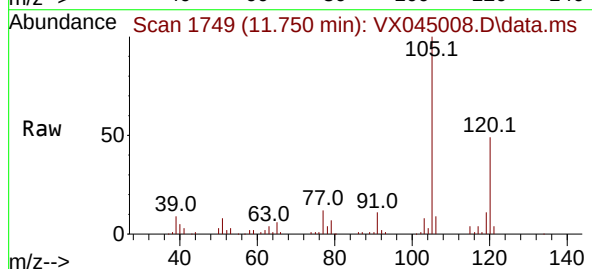
02/24/2025  
Supervised By :Mahesh  
Dadoda

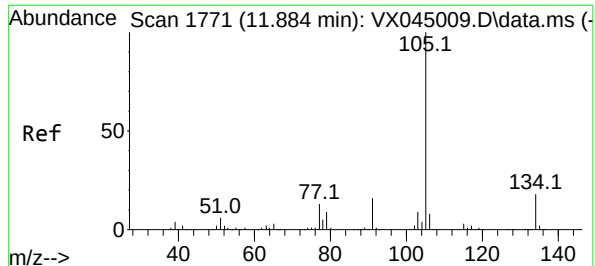
02/24/2025



#80  
1,2,4-Trimethylbenzene  
Concen: 4.763 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

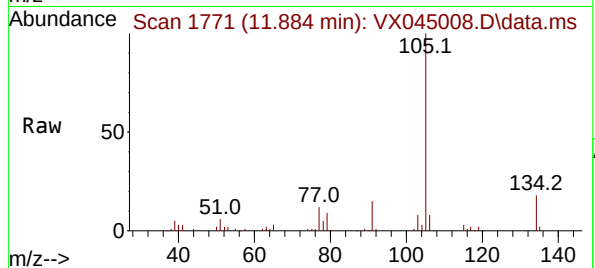
Tgt Ion:105 Resp: 26568  
Ion Ratio Lower Upper  
105 100  
120 46.0 0.0 88.4





#81  
sec-Butylbenzene  
Concen: 4.801 ug/l  
RT: 11.884 min Scan# 1771  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



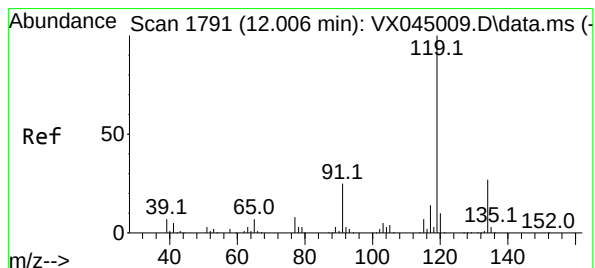
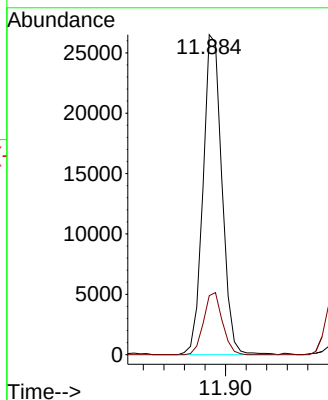
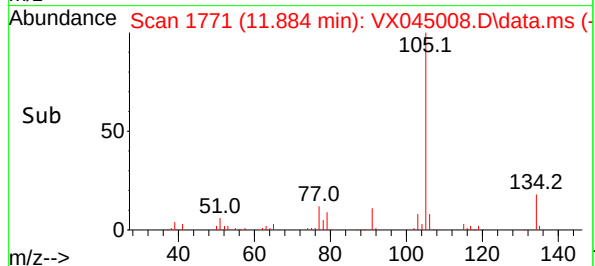
Tgt Ion:105 Resp: 3380  
Ion Ratio Lower Upper  
105 100  
134 19.2 0.0 39.0

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

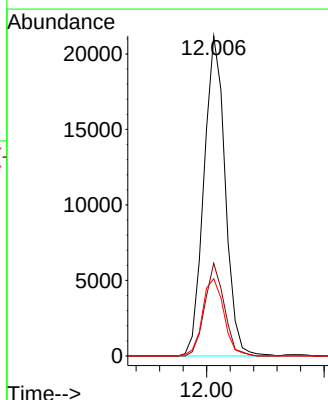
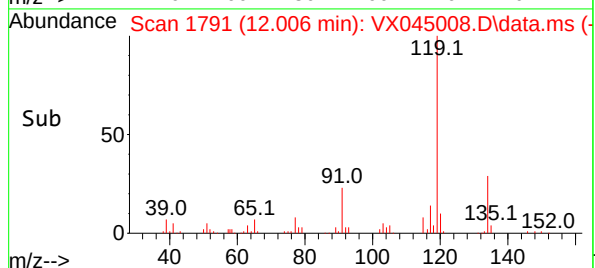
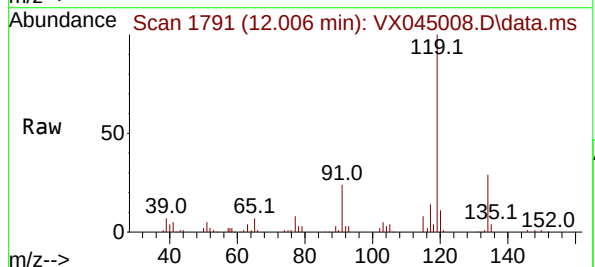
02/24/2025  
Supervised By :Mahesh  
Dadoda

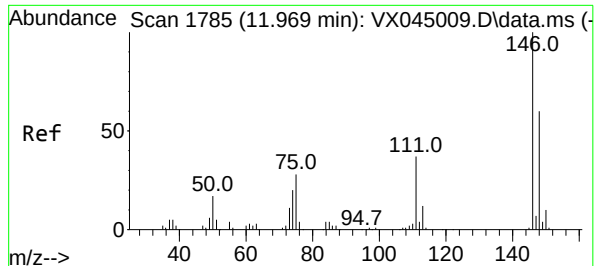
02/24/2025



#82  
p-Isopropyltoluene  
Concen: 4.653 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion:119 Resp: 26547  
Ion Ratio Lower Upper  
119 100  
134 26.5 0.0 52.6  
91 24.5 0.0 51.0





#83

1,3-Dichlorobenzene

Concen: 4.863 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 14060  
Ion Ratio Lower Upper  
146 100  
111 40.9 20.2 60.5  
148 63.5 31.2 93.6

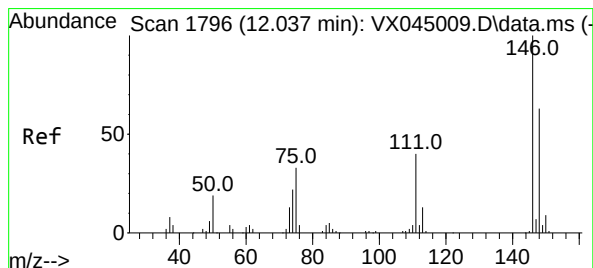
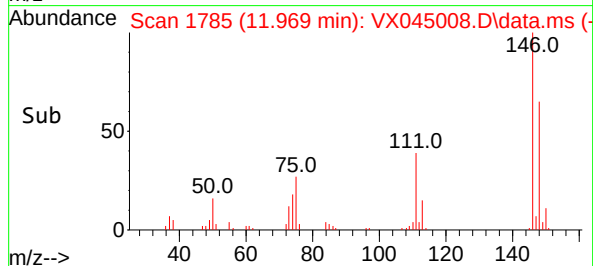
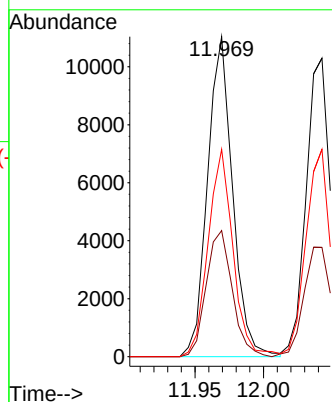
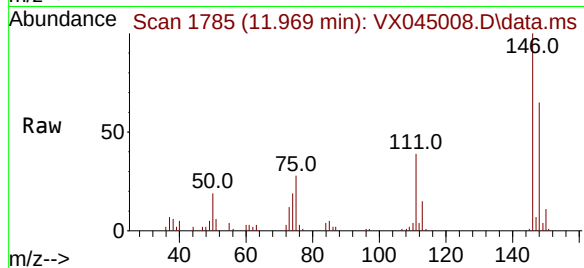
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#84

1,4-Dichlorobenzene

Concen: 4.755 ug/l

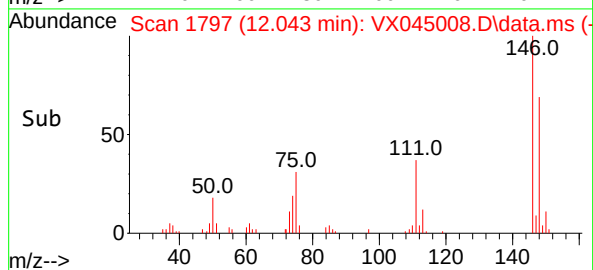
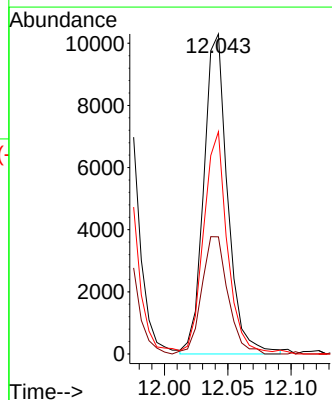
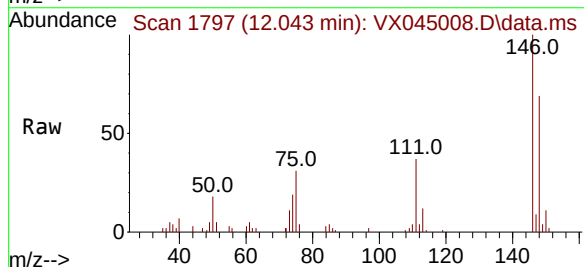
RT: 12.043 min Scan# 1797

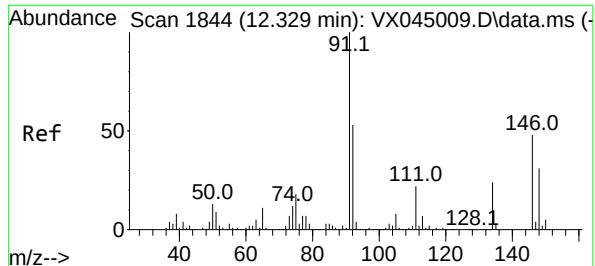
Delta R.T. 0.006 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Tgt Ion:146 Resp: 13556  
Ion Ratio Lower Upper  
146 100  
111 40.3 20.4 61.2  
148 69.1 31.8 95.4





#85

n-Butylbenzene

Concen: 4.344 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 22634 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 52.0  | 0.0   | 105.2 |
| 134      | 23.5  | 0.0   | 49.4  |

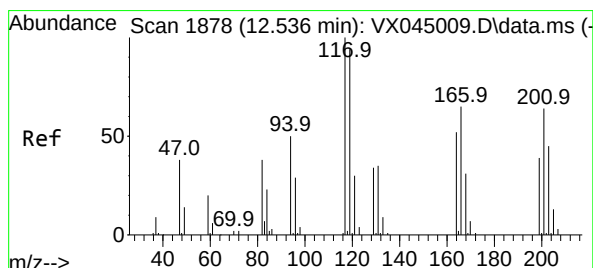
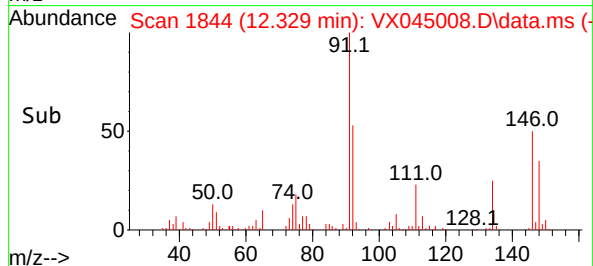
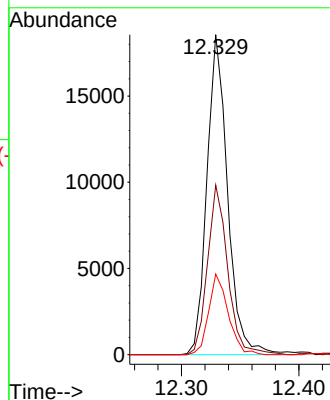
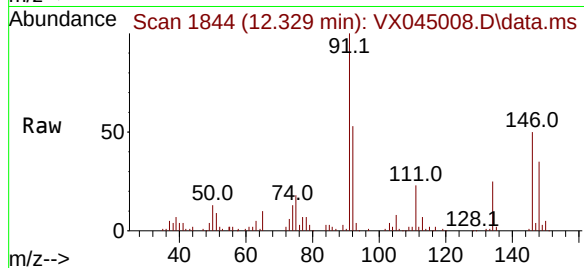
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#86

Hexachloroethane

Concen: 4.313 ug/l

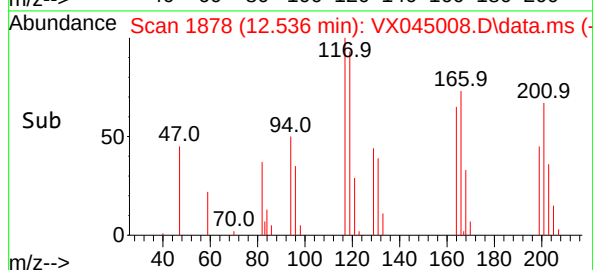
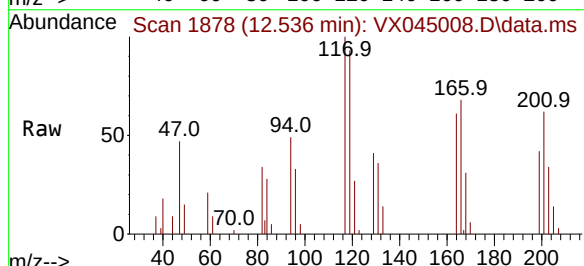
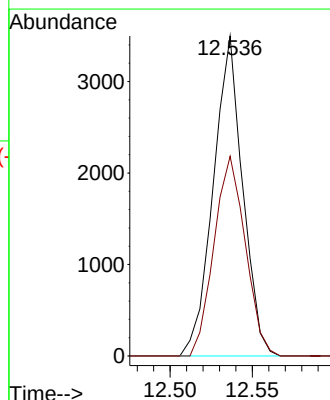
RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

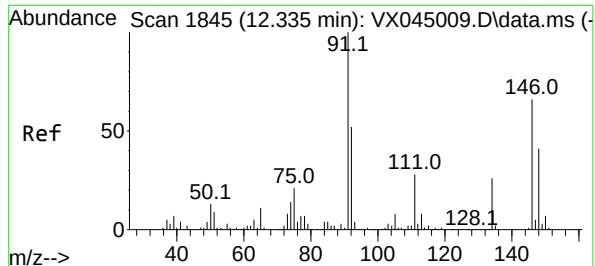
Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4340  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 66.5  | 32.6  | 97.7  |







#87  
1,2-Dichlorobenzene  
Concen: 5.001 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

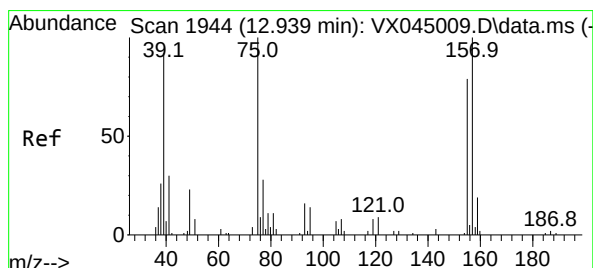
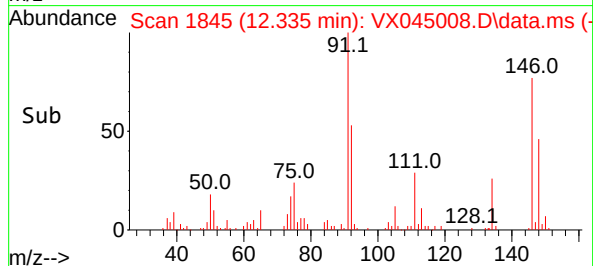
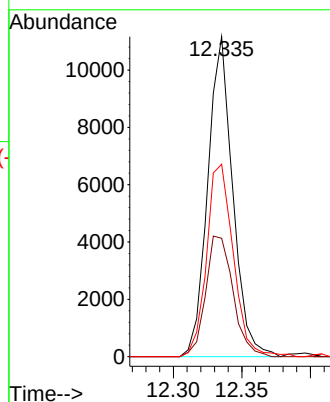
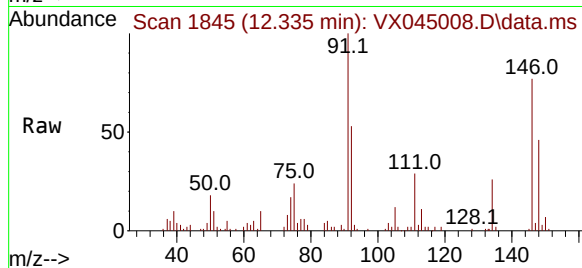
Tgt Ion:146 Resp: 1418  
Ion Ratio Lower Upper  
146 100  
111 41.2 21.7 65.1  
148 64.4 31.8 95.4

Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

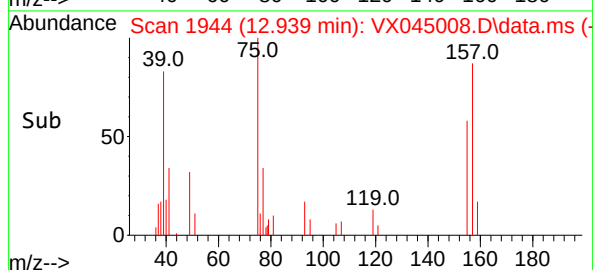
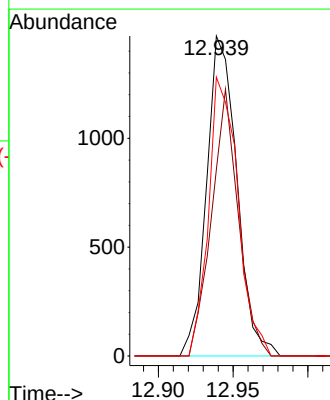
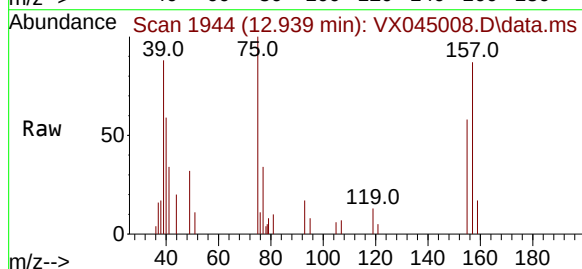
02/24/2025  
Supervised By :Mahesh  
Dadoda

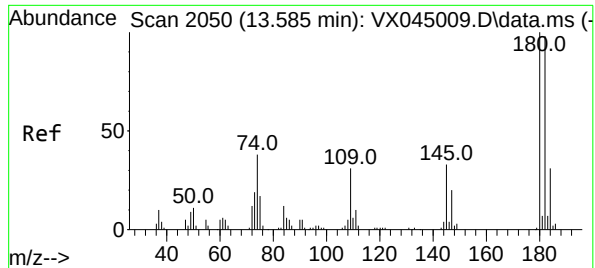
02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 4.810 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045008.D  
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 2067  
Ion Ratio Lower Upper  
75 100  
155 74.0 66.2 99.4  
157 84.6 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 4.412 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 7580       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.3  | 77.7 116.5 |
| 145         | 32.5  | 25.8 38.6  |

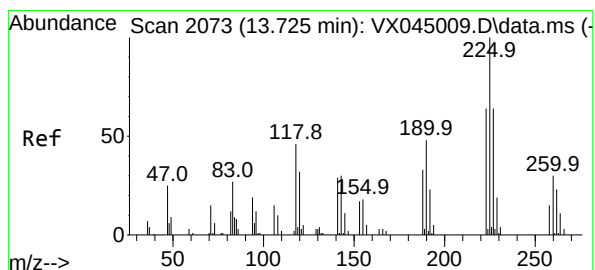
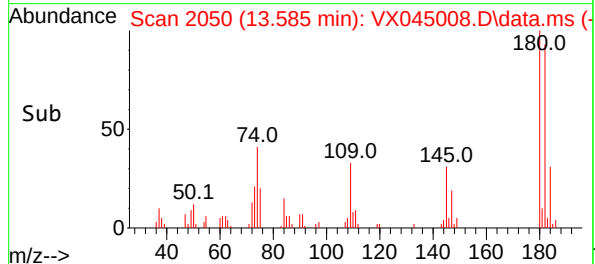
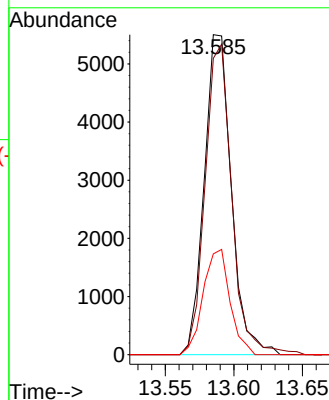
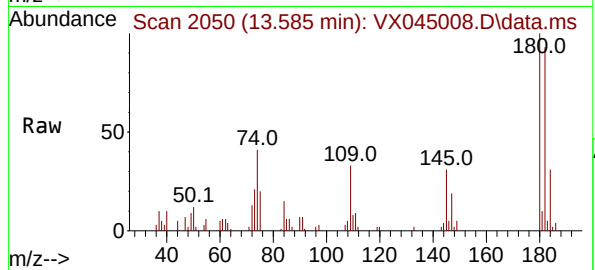
Manual Integrations  
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#90

Hexachlorobutadiene

Concen: 5.091 ug/l

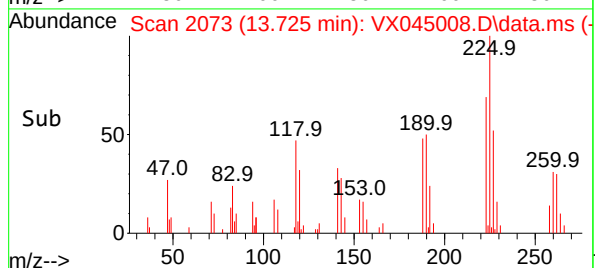
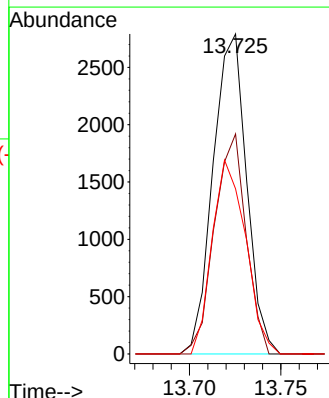
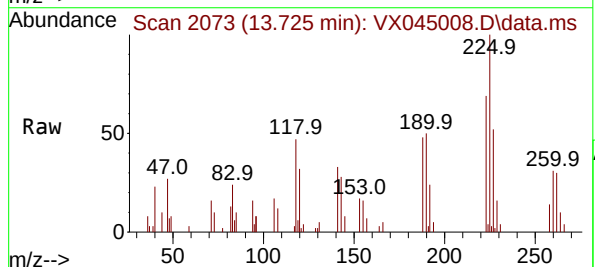
RT: 13.725 min Scan# 2073

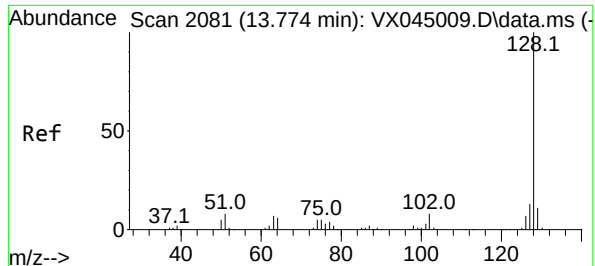
Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 3570      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 64.8  | 0.0 123.4 |
| 227         | 60.6  | 0.0 127.4 |





#91

Naphthalene

Concen: 4.356 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

Tgt Ion:128 Resp: 26410

Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

129 10.6 8.7 13.1

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Manual Integrations

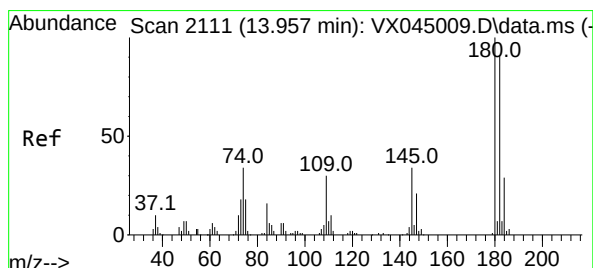
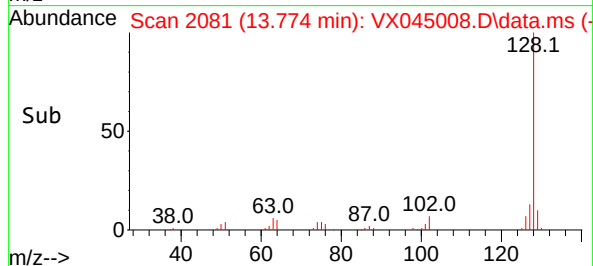
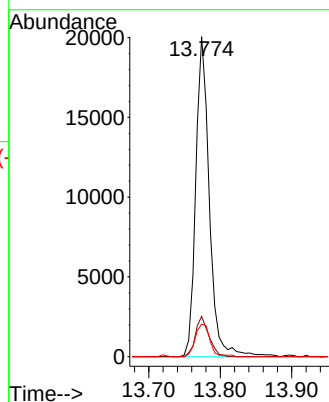
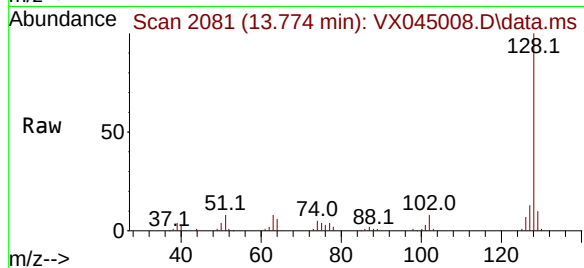
APPROVED

Reviewed By :John  
Carlone

02/24/2025

Supervised By :Mahesh  
Dadoda

02/24/2025



#92

1,2,3-Trichlorobenzene

Concen: 4.655 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX045008.D

Acq: 21 Feb 2025 09:58

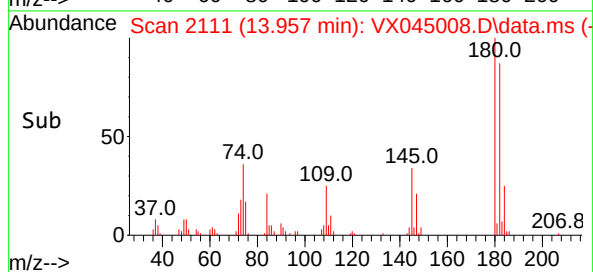
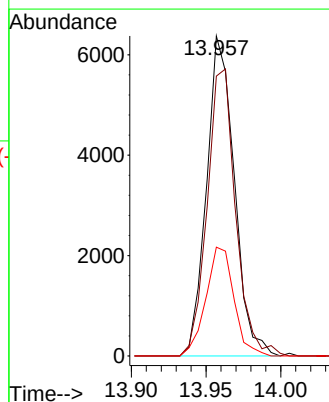
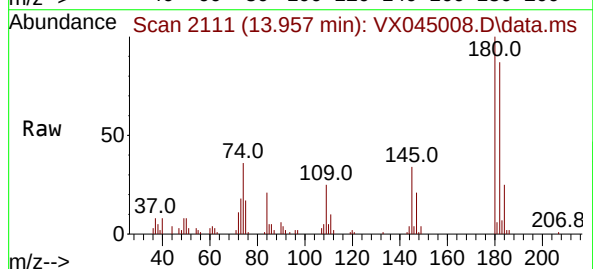
Tgt Ion:180 Resp: 8240

Ion Ratio Lower Upper

180 100

182 91.9 0.0 186.6

145 34.4 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045009.D  
 Acq On : 21 Feb 2025 10:21  
 Operator : JC/MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:47:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.885          | 128  | 18456      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757          | 114  | 100876     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 91818      | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 53173      | 29.663   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 98.867%  |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 51382      | 29.939   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 99.800%  |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 153274     | 30.175   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.567% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 30488      | 19.596   | ug/l   | 100      |
| 3) Chloromethane             | 1.295          | 50   | 36739      | 19.715   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 34827      | 19.369   | ug/l   | 100      |
| 5) Bromomethane              | 1.593          | 94   | 12009      | 19.186   | ug/l   | 100      |
| 6) Chloroethane              | 1.666          | 64   | 20465      | 21.014   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 45678      | 18.901   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.130          | 74   | 17586      | 19.233   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 26971      | 18.790   | ug/l   | 100      |
| 10) 1,1-Dichloroethene       | 2.313          | 96   | 26361      | 18.802   | ug/l   | 100      |
| 11) Methyl Iodide            | 2.447          | 142  | 26786      | 16.880   | ug/l   | 100      |
| 12) Methyl Acetate           | 2.697          | 43   | 30401      | 18.673   | ug/l   | 100      |
| 13) Acrolein                 | 2.233          | 56   | 29114      | 89.216   | ug/l   | 100      |
| 14) Acrylonitrile            | 3.056          | 53   | 76500      | 96.198   | ug/l   | 100      |
| 15) Acetone                  | 2.380          | 58   | 21647      | 99.253   | ug/l   | 100      |
| 16) Carbon Disulfide         | 2.502          | 76   | 73699      | 18.532   | ug/l   | 100      |
| 17) Allyl chloride           | 2.660          | 41   | 48603      | 18.535   | ug/l   | 100      |
| 18) Methylene Chloride       | 2.782          | 84   | 30537      | 19.365   | ug/l   | 100      |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 26955      | 19.003   | ug/l   | 100      |
| 20) Diisopropyl ether        | 3.751          | 45   | 95769      | 19.005   | ug/l   | 100      |
| 21) 1,1-Dichloroethane       | 3.605          | 63   | 53432      | 19.066   | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 4.483          | 96   | 32387      | 19.054   | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 2.983          | 59   | 26136      | 94.028   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.105          | 73   | 86386      | 18.878   | ug/l   | 100      |
| 25) Chloroform               | 5.087          | 83   | 52389      | 19.354   | ug/l   | 100      |
| 26) Cyclohexane              | 5.465          | 56   | 49670      | 19.201   | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 5.690          | 75   | 36104      | 19.456   | ug/l   | 100      |
| 30) 2-Butanone               | 4.550          | 43   | 104263     | 97.278   | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 39511      | 18.830   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 43317      | 19.266   | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 5.666          | 117  | 36851      | 19.421   | ug/l   | 100      |
| 34) Benzene                  | 6.032          | 78   | 114107     | 19.609   | ug/l   | 100      |
| 35) Methacrylonitrile        | 4.910          | 41   | 22376      | 19.509   | ug/l   | 100      |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 39058      | 19.604   | ug/l   | 100      |
| 37) Trichloroethene          | 7.117          | 130  | 26892      | 19.753   | ug/l   | 100      |
| 38) Methylcyclohexane        | 7.373          | 83   | 47088      | 18.899   | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 7.428          | 63   | 28555      | 19.738   | ug/l   | 100      |
| 40) Dibromomethane           | 7.580          | 93   | 20254      | 19.509   | ug/l   | 100      |
| 41) Bromodichloromethane     | 7.818          | 83   | 39895      | 19.335   | ug/l   | 100      |
| 42) Vinyl Acetate            | 3.715          | 43   | 400180     | 96.216   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045009.D  
 Acq On : 21 Feb 2025 10:21  
 Operator : JC/MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:47:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.709  | 43   | 38893    | 19.350  | ug/l  | 100      |
| 44) Isopropyl Acetate         | 6.336  | 43   | 61693    | 18.649  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 7.659  | 88   | 14028    | 407.910 | ug/l  | 100      |
| 46) Methyl methacrylate       | 7.690  | 41   | 30666    | 18.904  | ug/l  | 100      |
| 47) n-amyl Acetate            | 10.842 | 43   | 54008    | 18.814  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 35645    | 17.922  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 42718    | 18.974  | ug/l  | 100      |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 27147    | 20.047  | ug/l  | 100      |
| 51) Ethyl methacrylate        | 9.110  | 69   | 39389    | 18.495  | ug/l  | 100      |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 47373    | 19.965  | ug/l  | 100      |
| 53) Dibromochloromethane      | 9.519  | 129  | 29289    | 19.556  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 26948    | 19.597  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 105624   | 96.576  | ug/l  | 100      |
| 56) Bromoform                 | 10.799 | 173  | 17331    | 18.467  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 208023   | 99.596  | ug/l  | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 149308   | 98.899  | ug/l  | 100      |
| 61) Tetrachloroethene         | 9.269  | 164  | 22529    | 19.926  | ug/l  | 100      |
| 62) Toluene                   | 8.714  | 91   | 119473   | 19.642  | ug/l  | 100      |
| 64) Chlorobenzene             | 10.073 | 112  | 74287    | 19.710  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 24135    | 19.406  | ug/l  | 100      |
| 66) Ethyl Benzene             | 10.189 | 91   | 128535   | 19.302  | ug/l  | 100      |
| 67) m/p-Xylenes               | 10.299 | 106  | 99887    | 40.260  | ug/l  | 100      |
| 68) o-Xylene                  | 10.640 | 106  | 48859    | 20.071  | ug/l  | 100      |
| 69) Styrene                   | 10.653 | 104  | 80660    | 19.839  | ug/l  | 100      |
| 70) Isopropylbenzene          | 10.957 | 105  | 124935   | 19.888  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 40659    | 19.683  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 33046m   | 19.450  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 28601    | 19.777  | ug/l  | 100      |
| 74) n-propylbenzene           | 11.299 | 91   | 146105   | 19.544  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 89859    | 19.883  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 103532   | 19.977  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 9794     | 17.133  | ug/l  | 100      |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 99015    | 19.654  | ug/l  | 100      |
| 79) tert-butylbenzene         | 11.713 | 119  | 104250   | 19.965  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 104388   | 20.108  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.884 | 105  | 129645   | 19.783  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 104594   | 19.698  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 53471    | 19.873  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene       | 12.037 | 146  | 52302    | 19.714  | ug/l  | 100      |
| 85) n-Butylbenzene            | 12.329 | 91   | 92551    | 19.087  | ug/l  | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 17240    | 18.410  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 53134    | 20.126  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 7393     | 18.485  | ug/l  | 100      |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 30018    | 18.760  | ug/l  | 100      |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 12822    | 19.649  | ug/l  | 100      |
| 91) Naphthalene               | 13.774 | 128  | 108844   | 19.291  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 32019    | 19.437  | ug/l  | 100      |

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

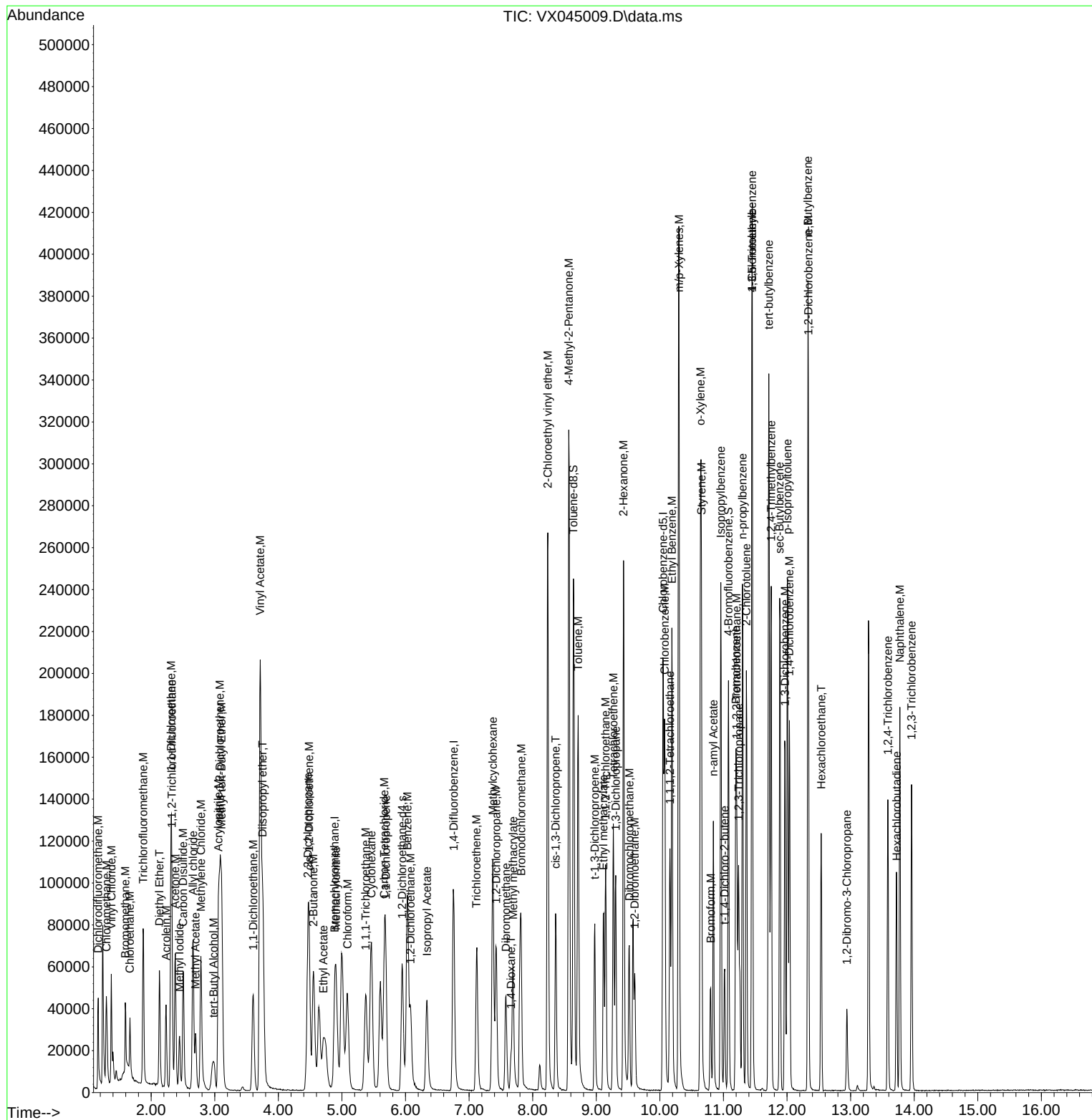
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Data File : VX045009.D  
Acq On : 21 Feb 2025 10:21  
Operator : JC/MD  
Sample : VSTDICCC020  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

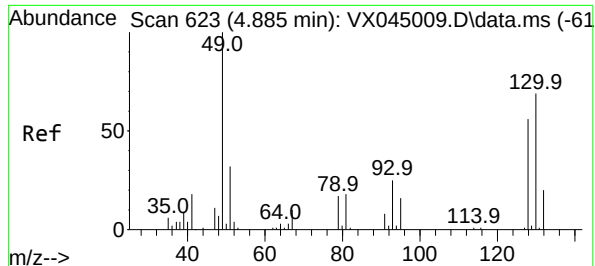
**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICCC020

## Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:47:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 00:21:26 2025  
Response via : Initial Calibration





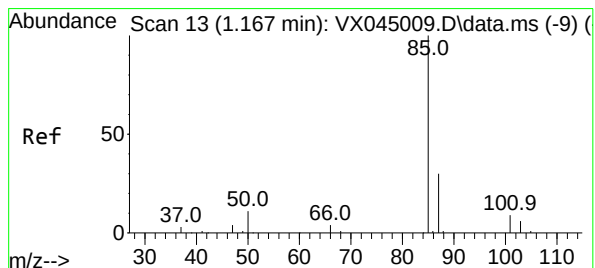
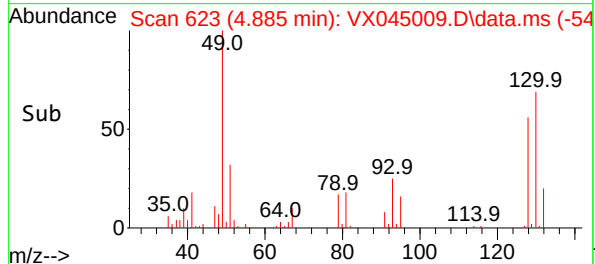
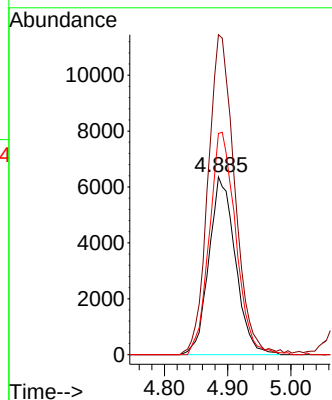
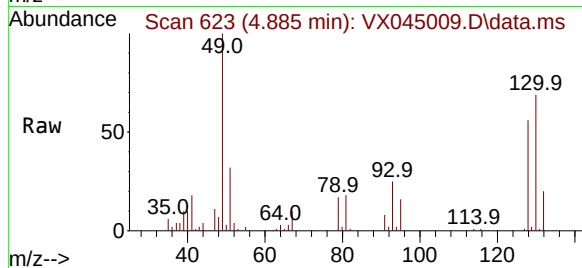
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.885 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion:128 Resp: 18450  
Ion Ratio Lower Upper  
128 100  
49 179.9 0.0 449.7  
130 125.1 0.0 312.7

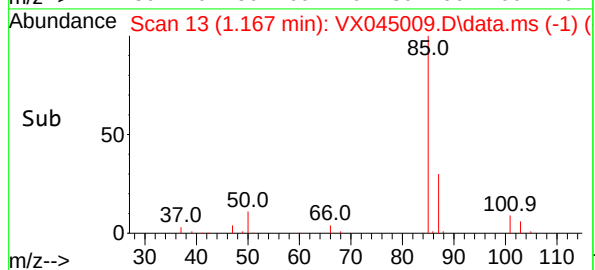
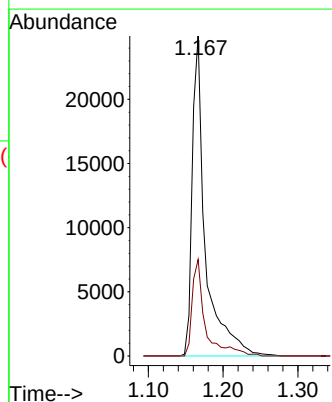
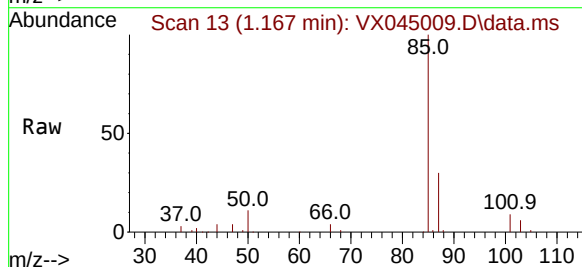
Manual Integrations  
APPROVED

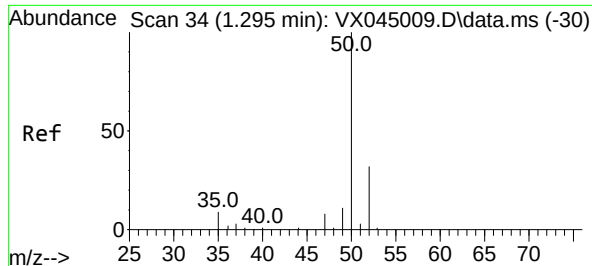
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#2  
Dichlorodifluoromethane  
Concen: 19.596 ug/l  
RT: 1.167 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 85 Resp: 30488  
Ion Ratio Lower Upper  
85 100  
87 30.2 15.1 45.3





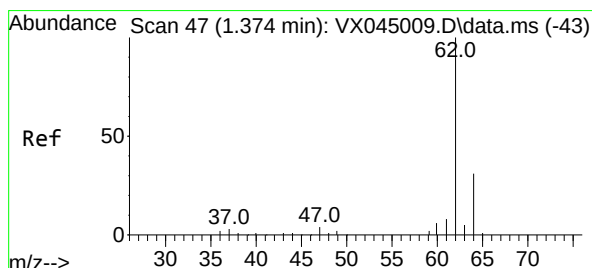
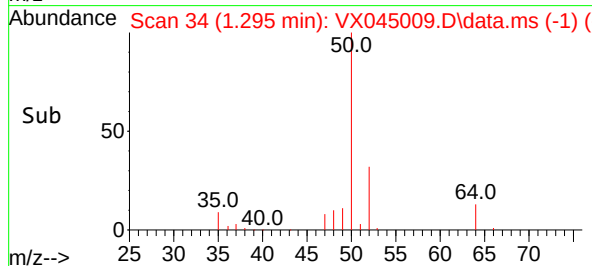
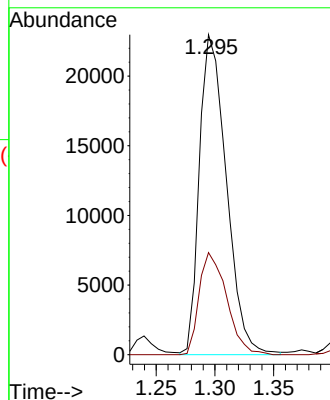
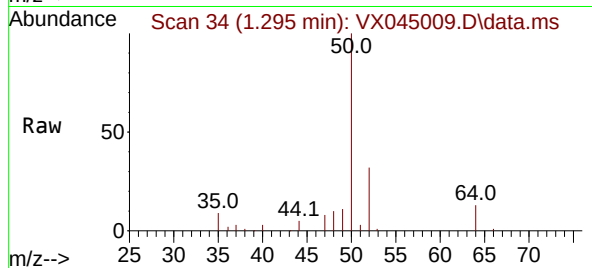
#3  
Chloromethane  
Concen: 19.715 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 50 Resp: 36739  
Ion Ratio Lower Upper  
50 100  
52 32.1 25.7 38.5

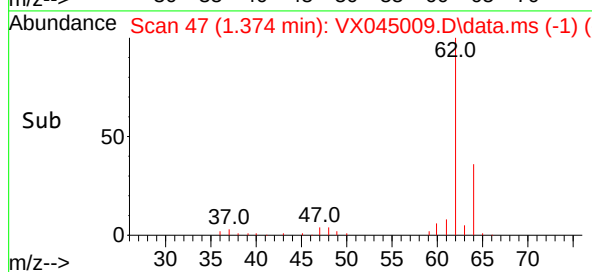
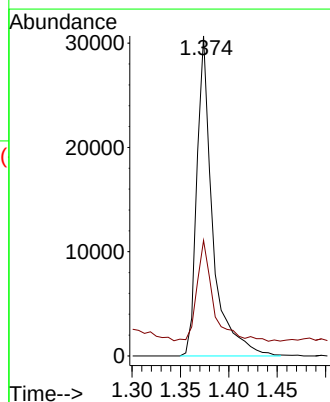
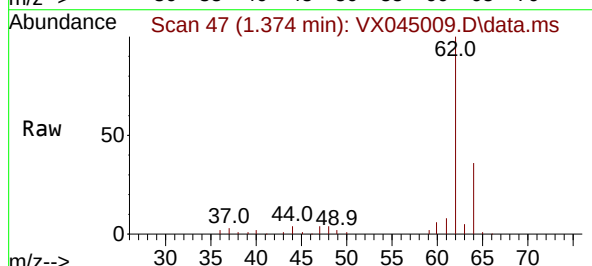
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

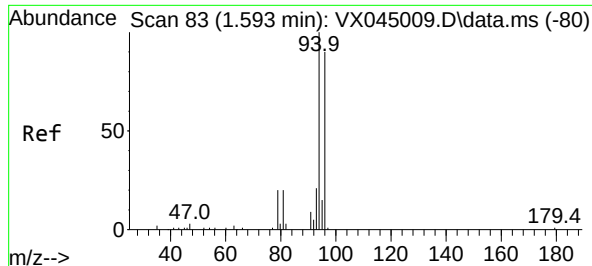


#4  
Vinyl Chloride  
Concen: 19.369 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 62 Resp: 34827  
Ion Ratio Lower Upper  
62 100  
64 31.4 25.1 37.7

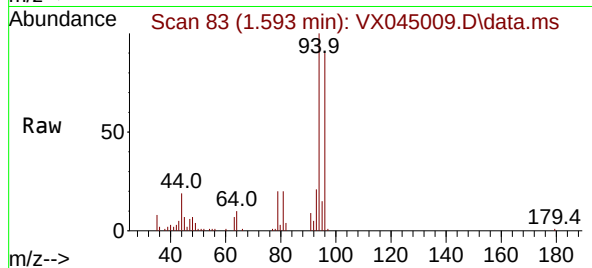






#5  
Bromomethane  
Concen: 19.186 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

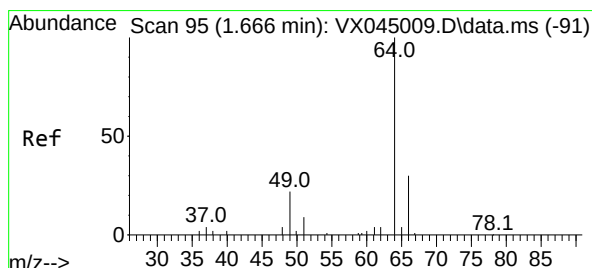
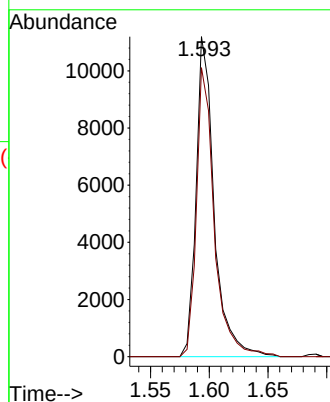
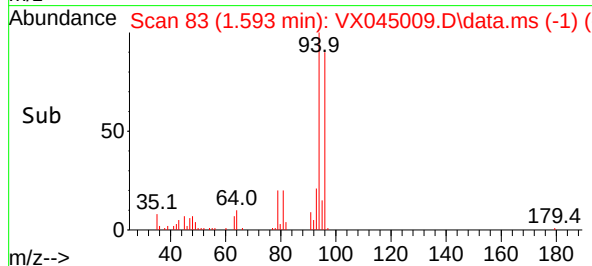
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 94 Resp: 12009  
Ion Ratio Lower Upper  
94 100  
96 90.3 72.2 108.4

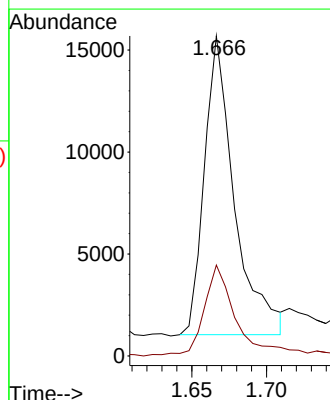
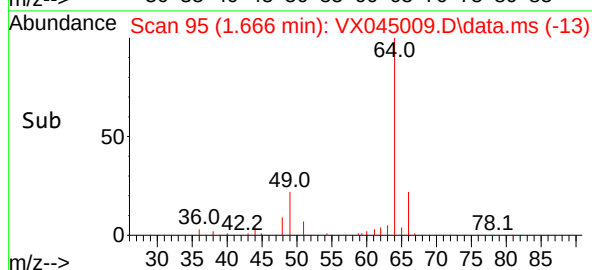
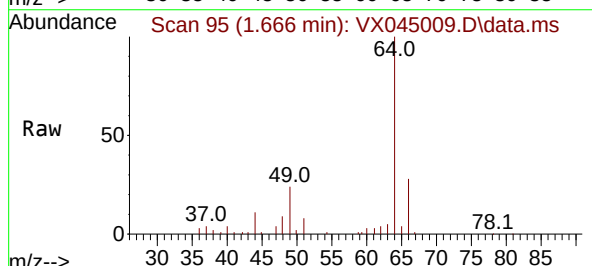
Manual Integrations  
APPROVED

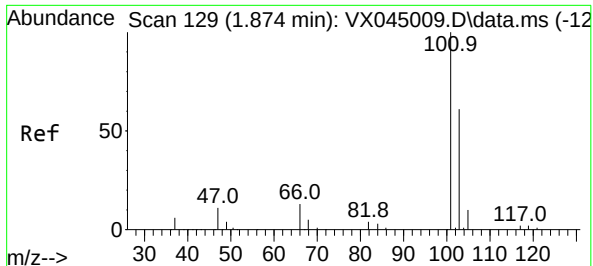
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#6  
Chloroethane  
Concen: 21.014 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 64 Resp: 20465  
Ion Ratio Lower Upper  
64 100  
66 29.6 23.7 35.5





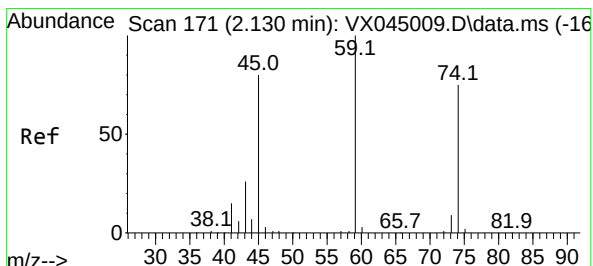
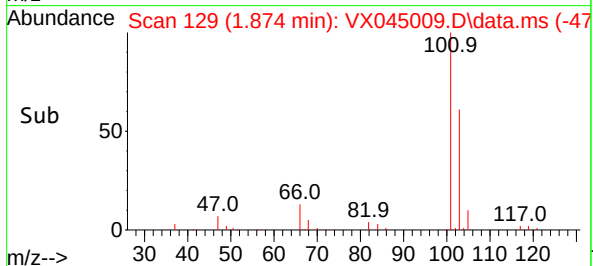
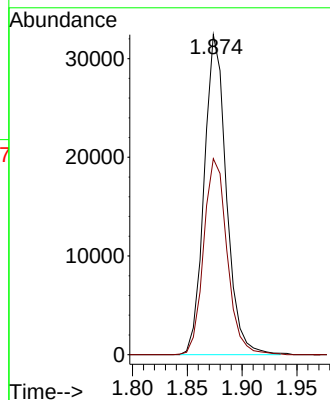
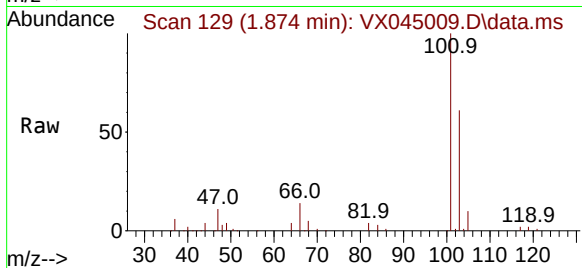
#7  
Trichlorofluoromethane  
Concen: 18.901 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion:101 Resp: 45678  
Ion Ratio Lower Upper  
101 100  
103 61.0 48.8 73.2

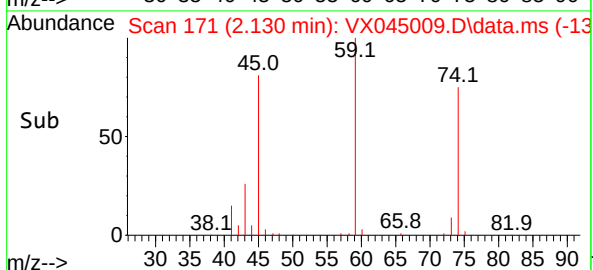
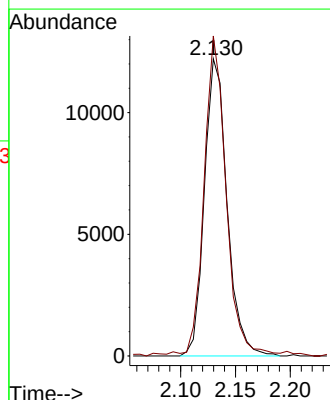
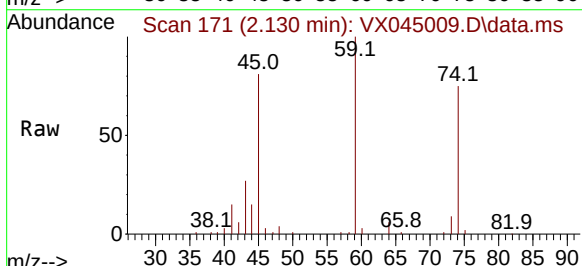
Manual Integrations  
APPROVED

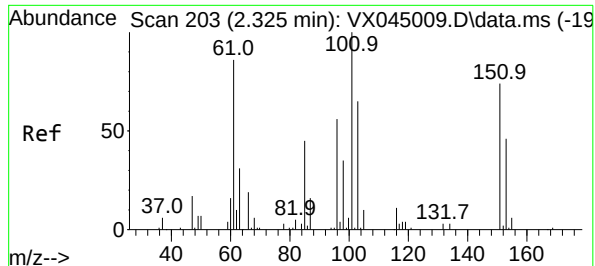
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#8  
Diethyl Ether  
Concen: 19.233 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 74 Resp: 17586  
Ion Ratio Lower Upper  
74 100  
45 103.8 20.8 186.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.790 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

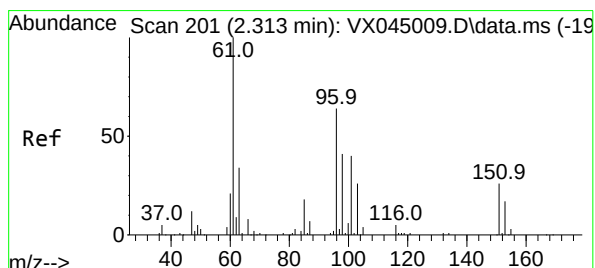
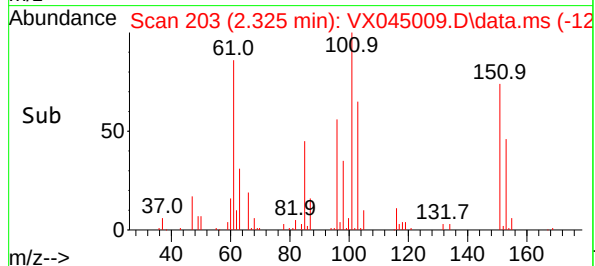
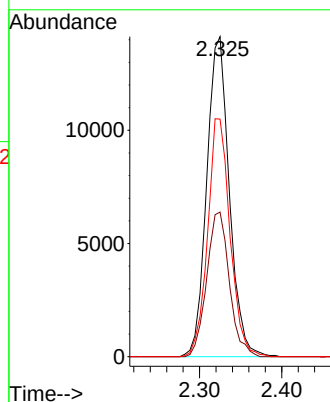
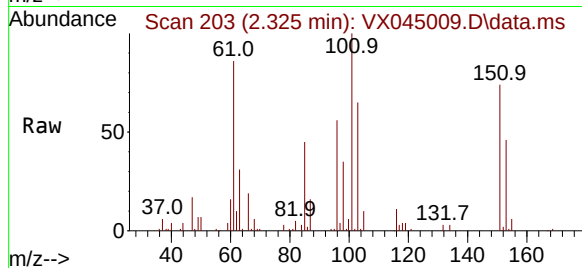
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 2697  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 45.3  | 0.0   | 90.6  |
| 151      | 73.8  | 0.0   | 147.6 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#10

1,1-Dichloroethene

Concen: 18.802 ug/l

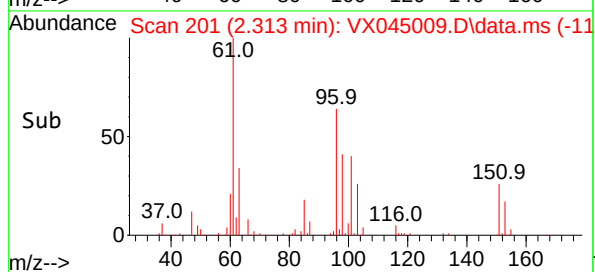
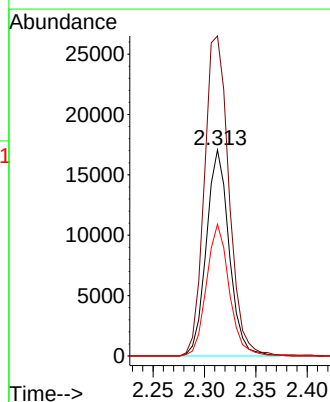
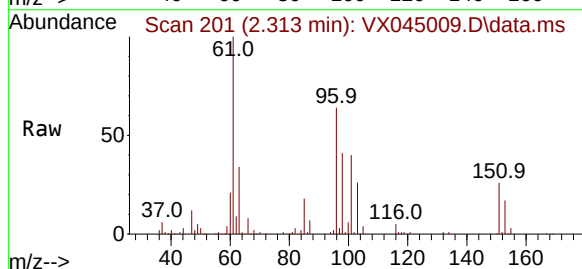
RT: 2.313 min Scan# 201

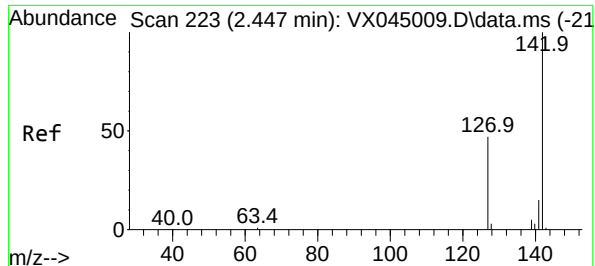
Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 26361 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 155.2 | 124.2 | 186.2 |
| 98       | 63.9  | 51.1  | 76.7  |





#11

Methyl Iodide

Concen: 16.880 ug/l

RT: 2.447 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion:142 Resp: 26780

Ion Ratio Lower Upper

142 100

127 46.6 23.3 69.9

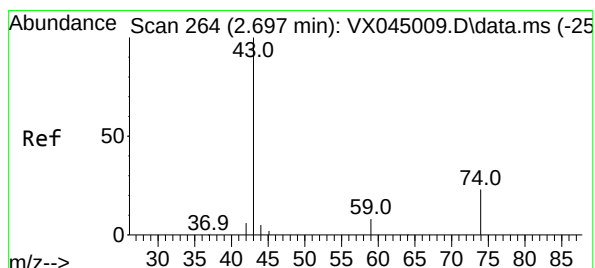
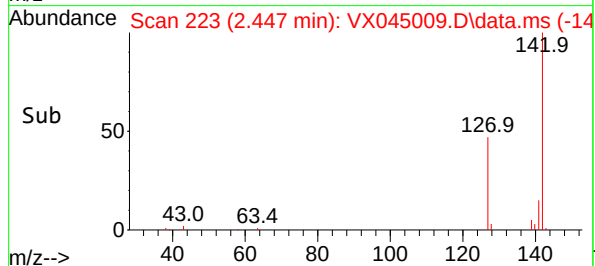
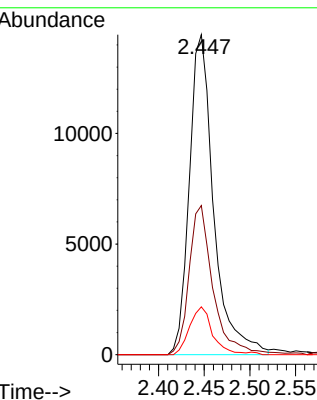
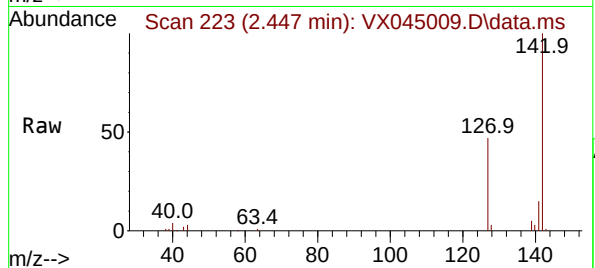
141 15.1 7.5 22.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#12

Methyl Acetate

Concen: 18.673 ug/l

RT: 2.697 min Scan# 264

Delta R.T. 0.000 min

Lab File: VX045009.D

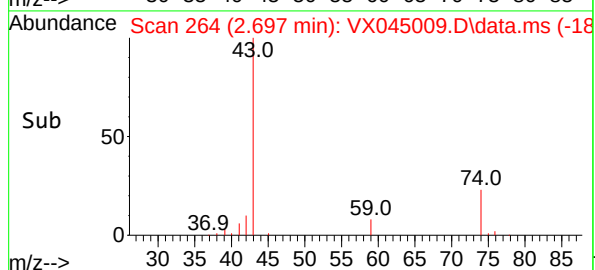
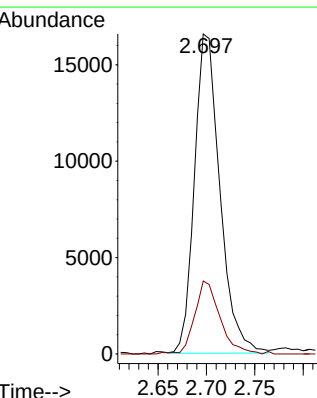
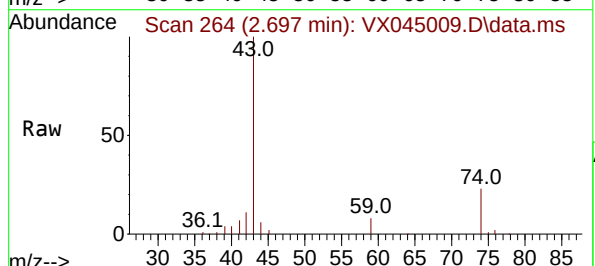
Acq: 21 Feb 2025 10:21

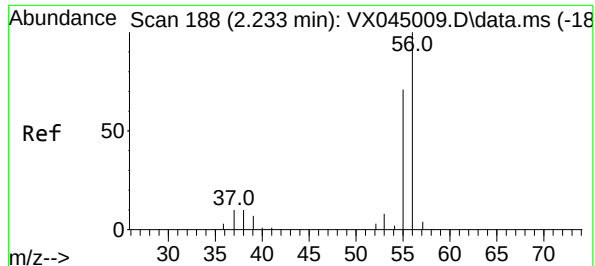
Tgt Ion: 43 Resp: 30401

Ion Ratio Lower Upper

43 100

74 22.4 17.9 26.9





#13

Acrolein

Concen: 89.216 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 29114

Ion Ratio Lower Upper

56 100

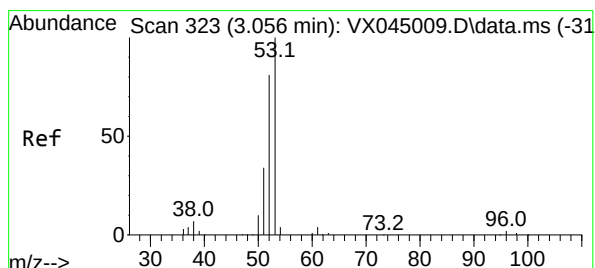
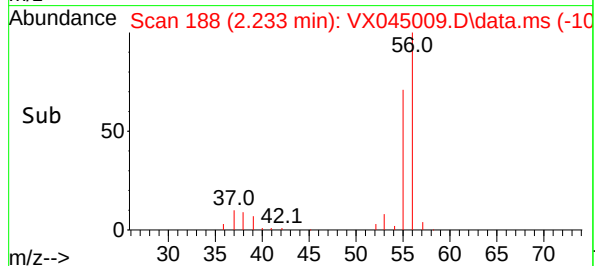
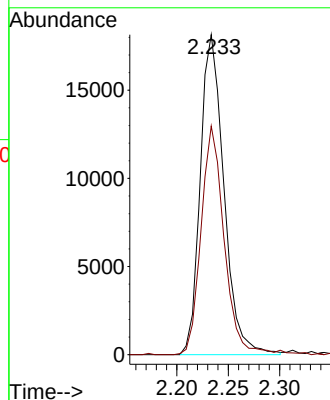
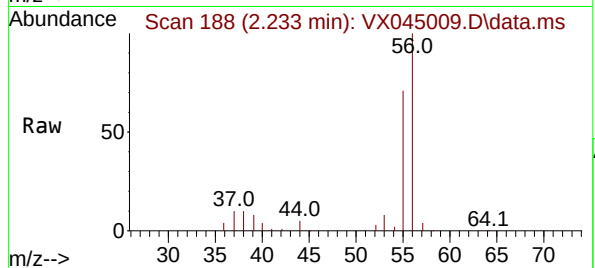
55 69.3 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#14

Acrylonitrile

Concen: 96.198 ug/l

RT: 3.056 min Scan# 323

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

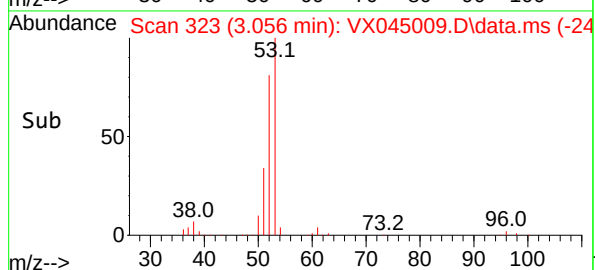
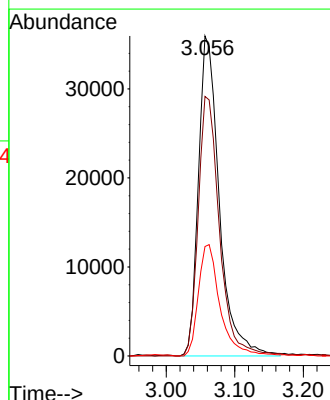
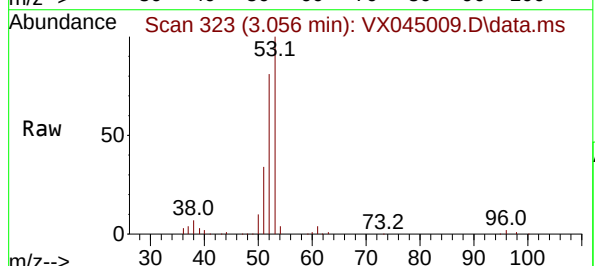
Tgt Ion: 53 Resp: 76500

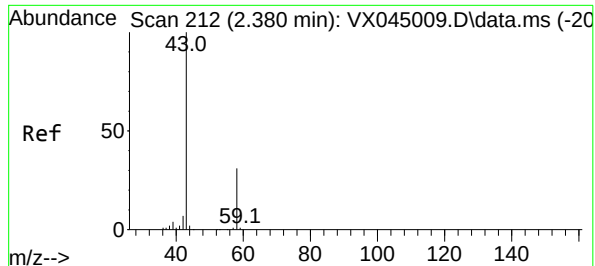
Ion Ratio Lower Upper

53 100

52 81.9 40.9 122.8

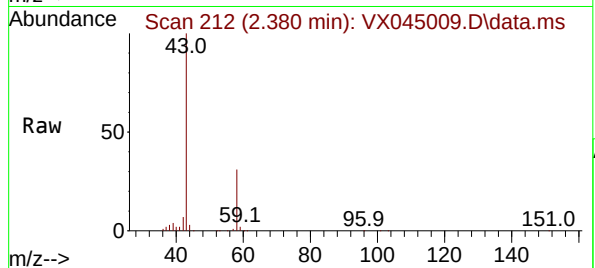
51 36.0 18.0 54.0





#15  
Acetone  
Concen: 99.253 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

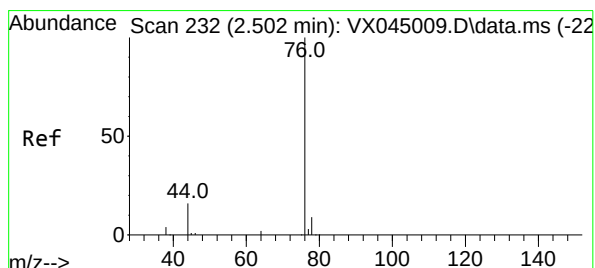
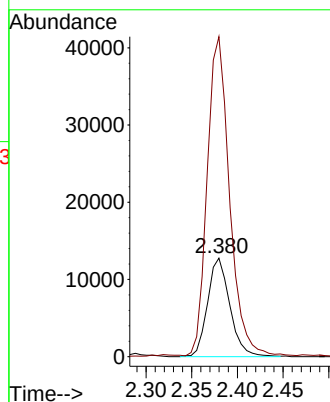
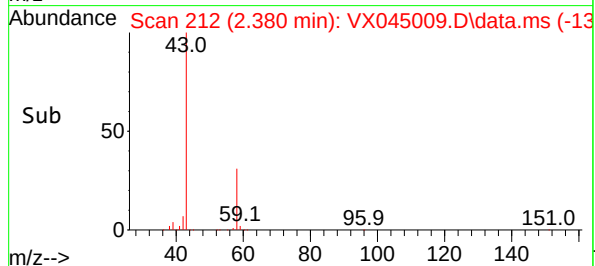
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 58 Resp: 2164  
Ion Ratio Lower Upper  
58 100  
43 323.3 258.6 388.0

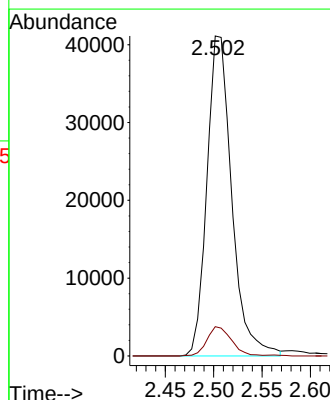
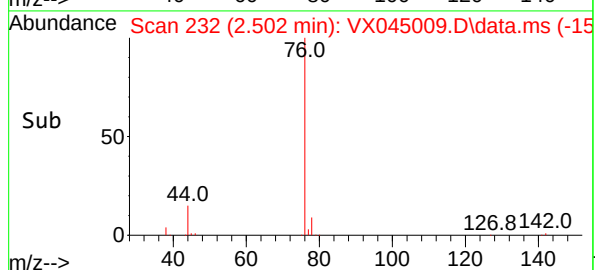
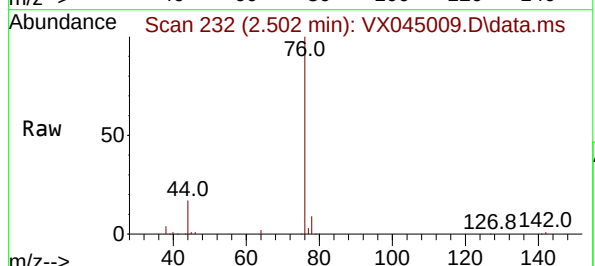
Manual Integrations  
APPROVED

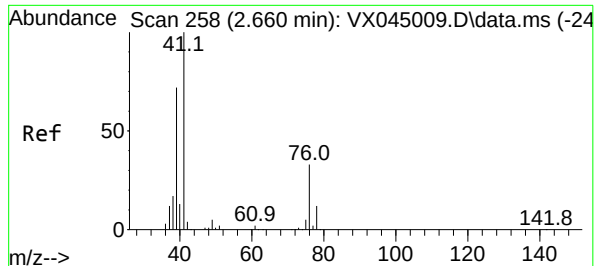
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#16  
Carbon Disulfide  
Concen: 18.532 ug/l  
RT: 2.502 min Scan# 232  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 76 Resp: 73699  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.3 10.9





#17

Allyl chloride

Concen: 18.535 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

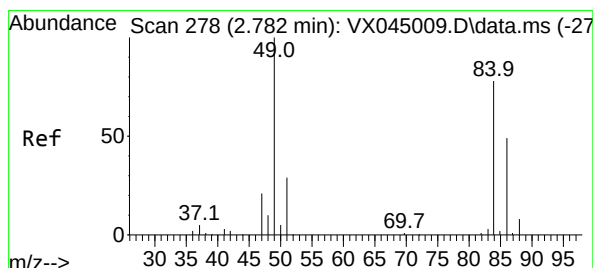
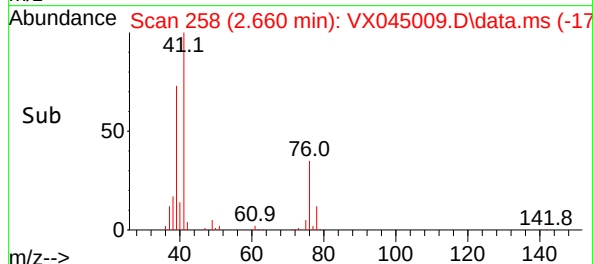
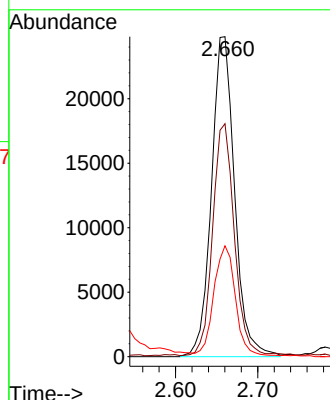
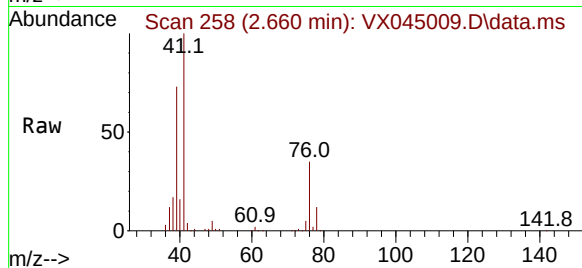
VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 4860  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 72.4  | 36.2  | 108.6 |
| 76       | 34.3  | 17.2  | 51.5  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#18

Methylene Chloride

Concen: 19.365 ug/l

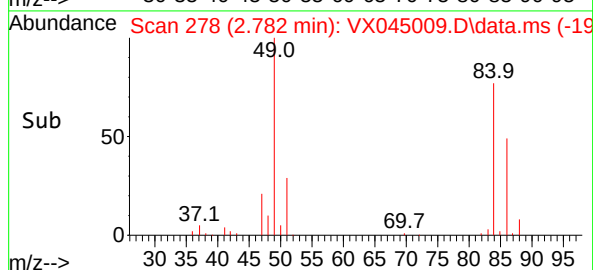
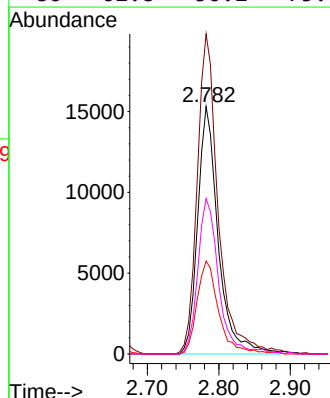
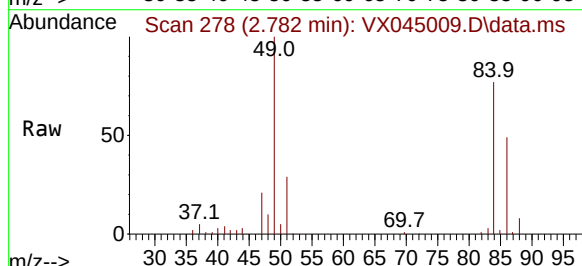
RT: 2.782 min Scan# 278

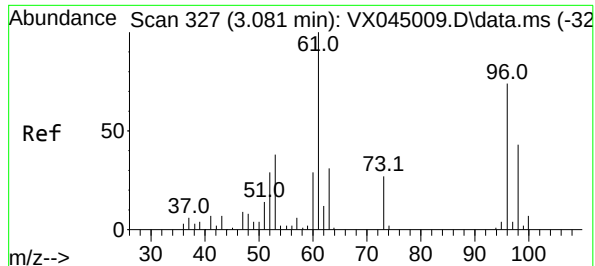
Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 30537 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 128.5 | 102.8 | 154.2 |
| 51       | 37.6  | 30.1  | 45.1  |
| 86       | 62.8  | 50.2  | 75.4  |





#19

trans-1,2-Dichloroethene

Concen: 19.003 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

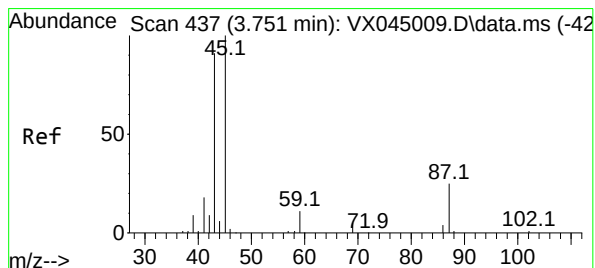
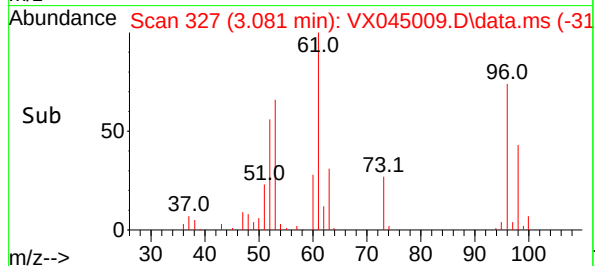
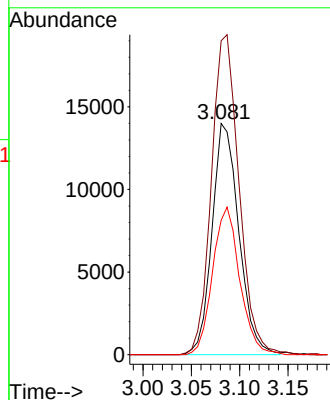
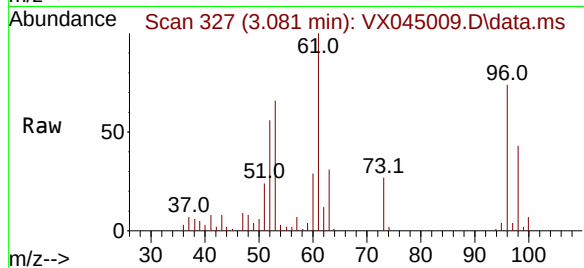
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2695  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 135.8 | 108.6 | 163.0 |
| 98       | 58.1  | 46.5  | 69.7  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#20

Diisopropyl ether

Concen: 19.005 ug/l

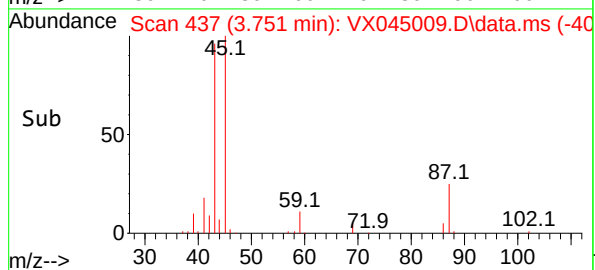
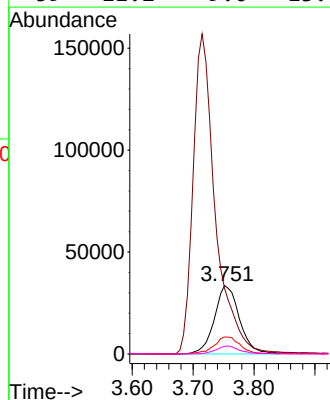
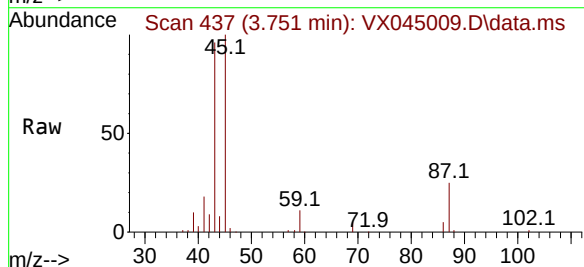
RT: 3.751 min Scan# 437

Delta R.T. 0.000 min

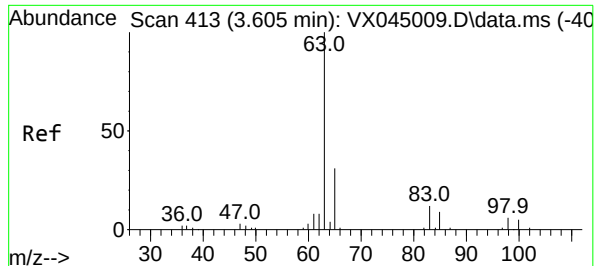
Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 95769 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 93.0  | 74.4  | 111.6 |
| 87       | 24.8  | 19.8  | 29.8  |
| 59       | 11.2  | 9.0   | 13.4  |







#21

1,1-Dichloroethane

Concen: 19.066 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

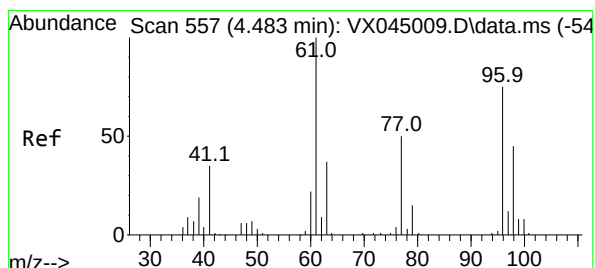
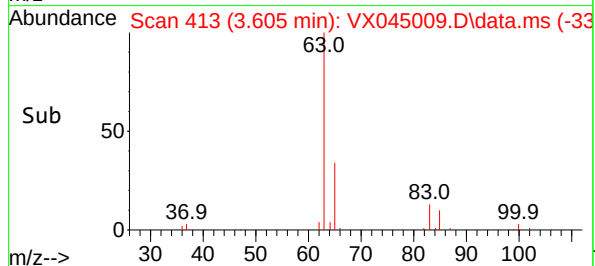
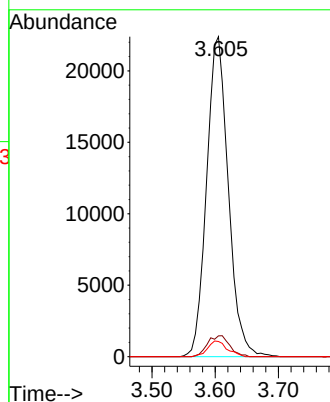
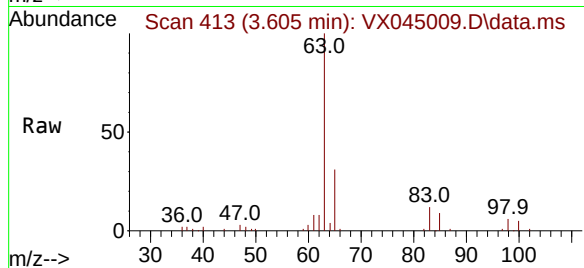
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 5343 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 98        | 6.5   | 3.3   | 9.8  |
| 100       | 4.7   | 2.4   | 7.1  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#22

cis-1,2-Dichloroethene

Concen: 19.054 ug/l

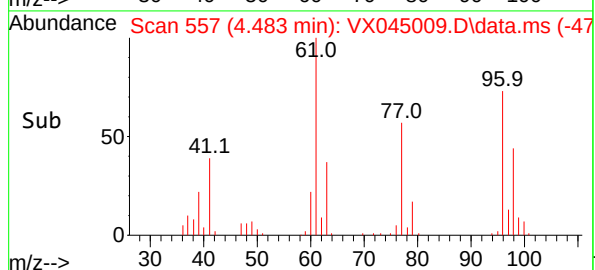
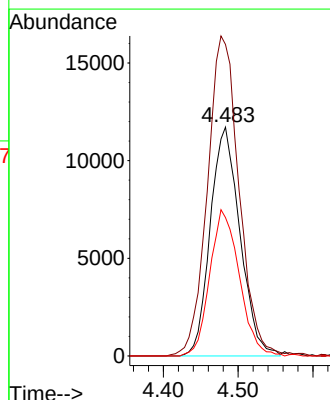
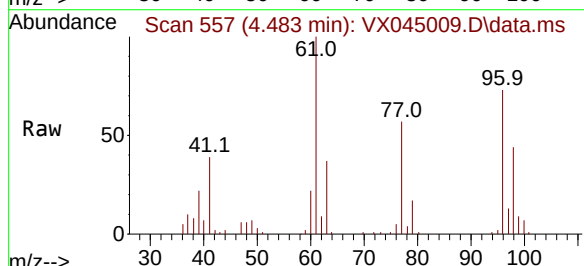
RT: 4.483 min Scan# 557

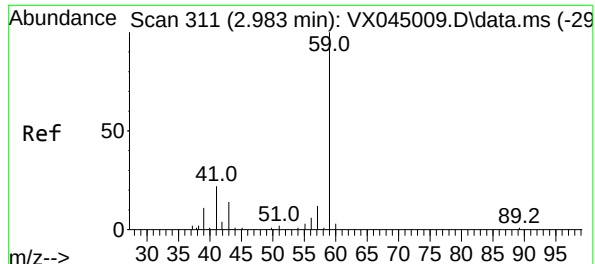
Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 32387 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 148.6 | 118.9 | 178.3 |
| 98        | 63.4  | 50.7  | 76.1  |





#23

tert-Butyl Alcohol

Concen: 94.028 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 26130

Ion Ratio Lower Upper

59 100

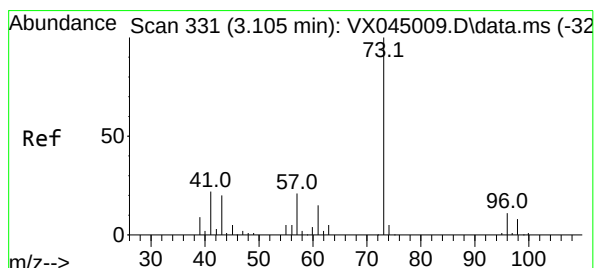
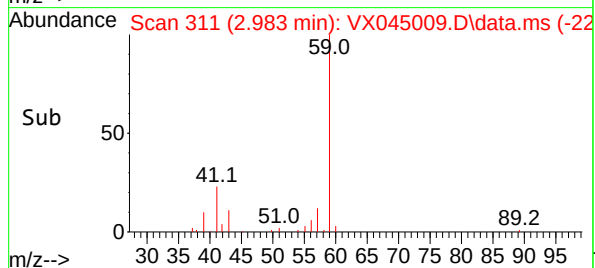
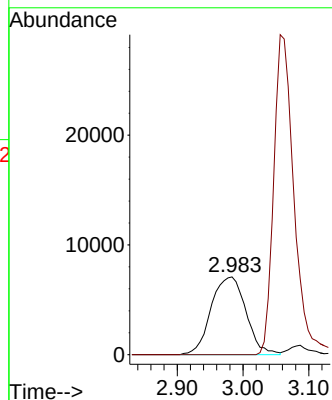
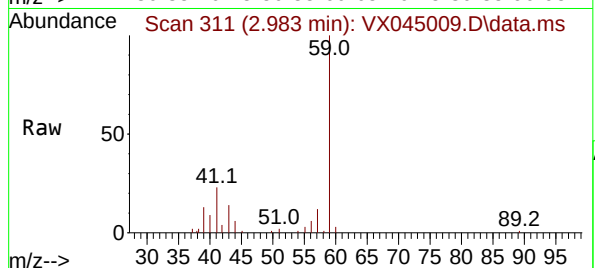
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#24

Methyl tert-Butyl Ether

Concen: 18.878 ug/l

RT: 3.105 min Scan# 331

Delta R.T. 0.000 min

Lab File: VX045009.D

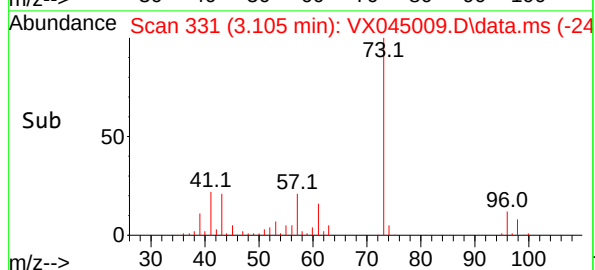
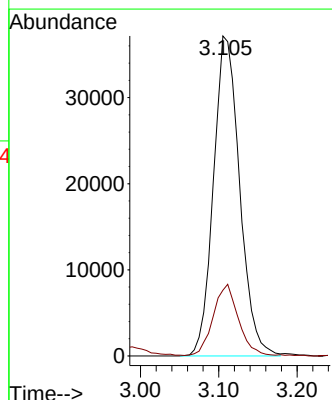
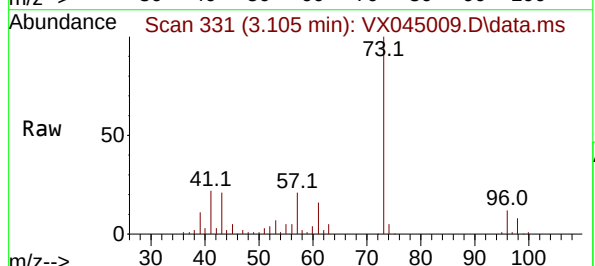
Acq: 21 Feb 2025 10:21

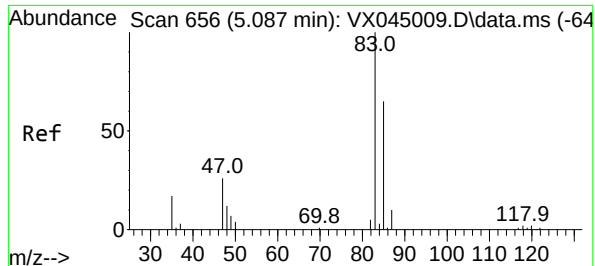
Tgt Ion: 73 Resp: 86386

Ion Ratio Lower Upper

73 100

43 21.7 17.4 26.0





#25

Chloroform

Concen: 19.354 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 52389

Ion Ratio Lower Upper

83 100

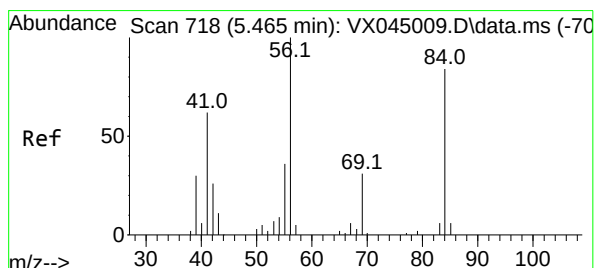
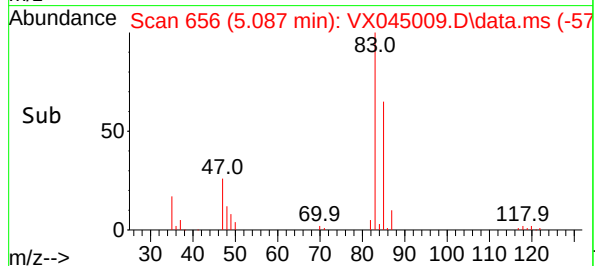
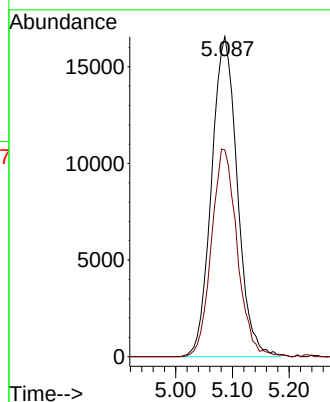
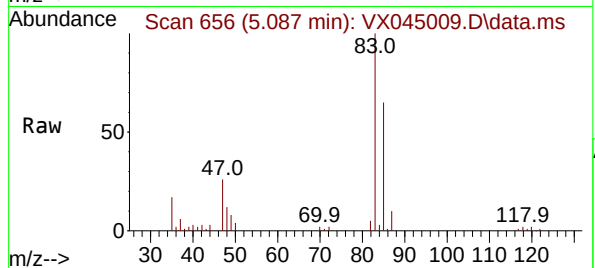
85 64.6 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#26

Cyclohexane

Concen: 19.201 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

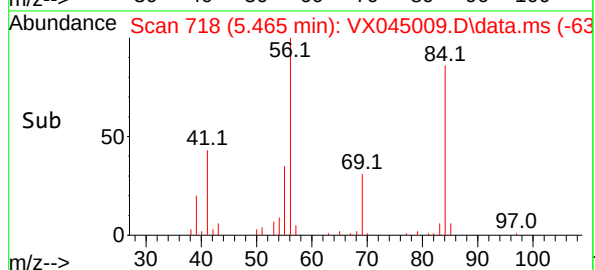
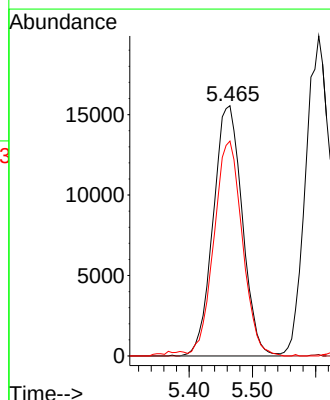
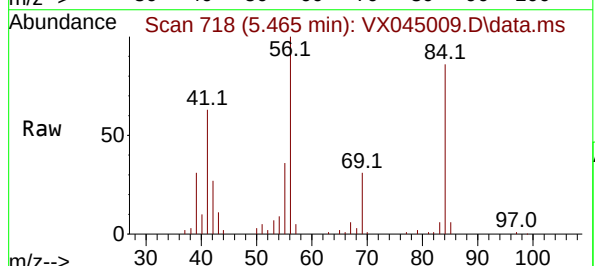
Tgt Ion: 56 Resp: 49670

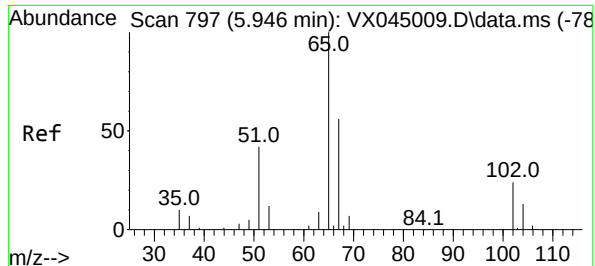
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 83.9 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 29.663 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 5317

Ion Ratio Lower Upper

65 100

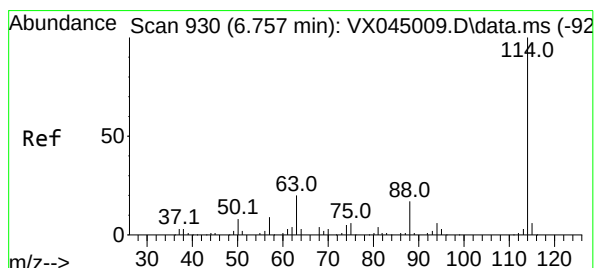
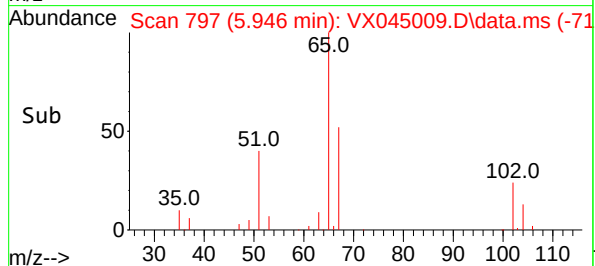
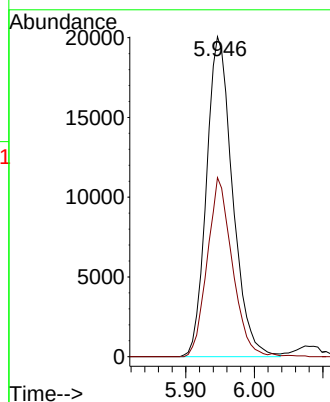
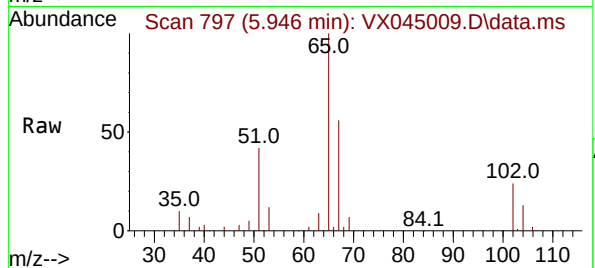
67 53.3 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

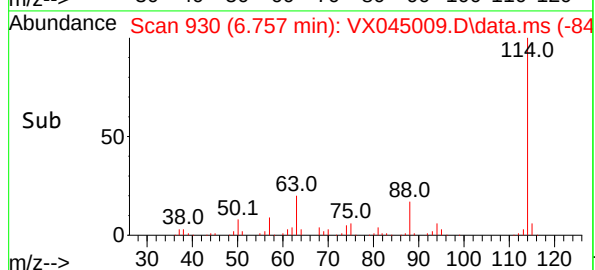
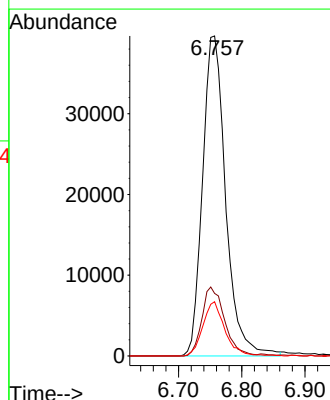
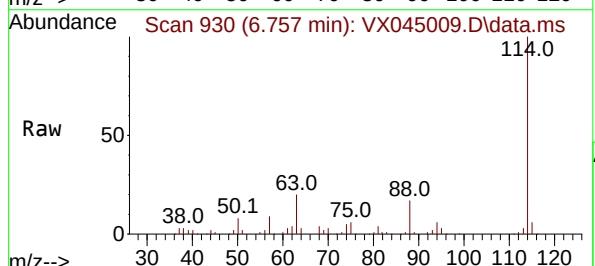
Tgt Ion:114 Resp: 100876

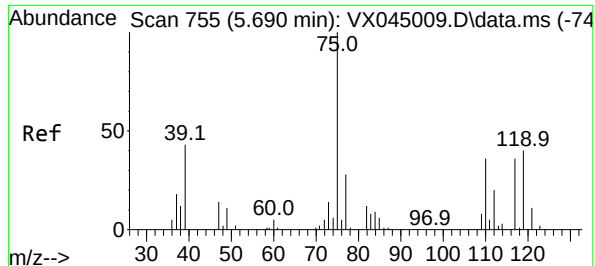
Ion Ratio Lower Upper

114 100

63 21.0 16.8 25.2

88 15.9 12.7 19.1





#29

1,1-Dichloropropene

Concen: 19.456 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 36104

Ion Ratio Lower Upper

75 100

110 34.6 0.0 69.2

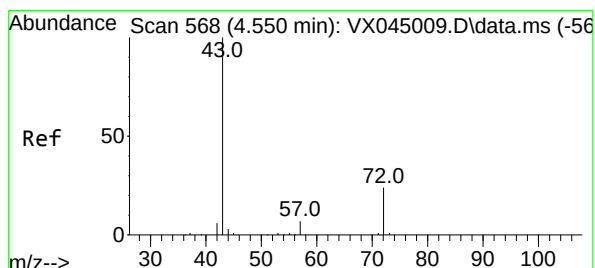
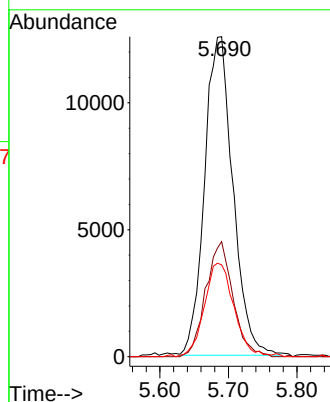
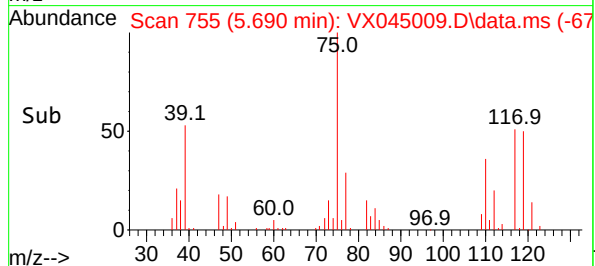
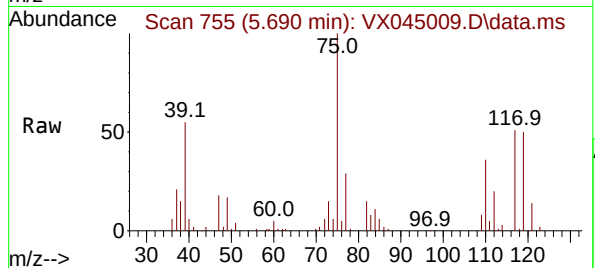
77 30.5 0.0 61.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#30

2-Butanone

Concen: 97.278 ug/l

RT: 4.550 min Scan# 568

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

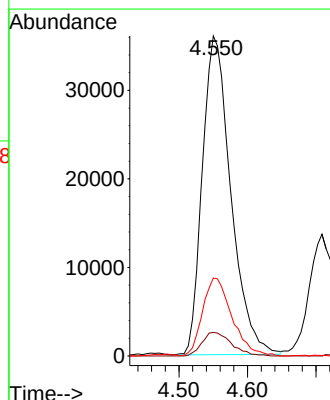
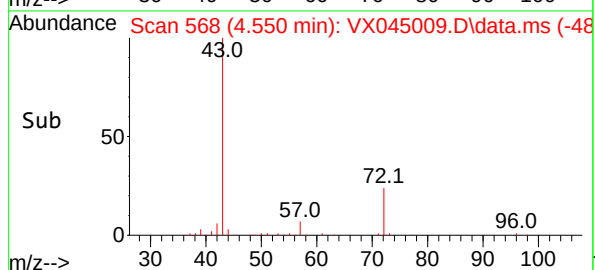
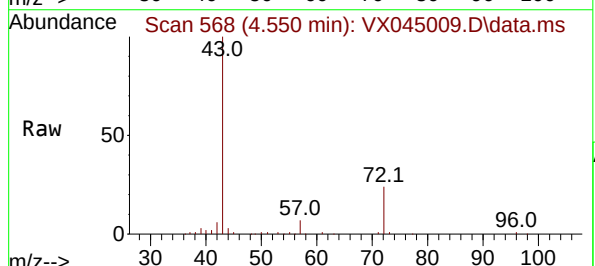
Tgt Ion: 43 Resp: 104263

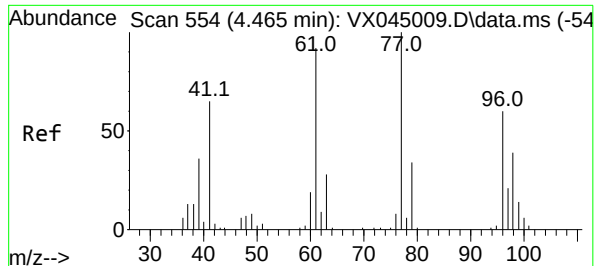
Ion Ratio Lower Upper

43 100

57 7.7 6.2 9.2

72 25.2 20.2 30.2





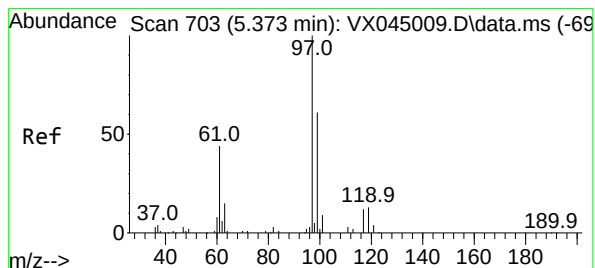
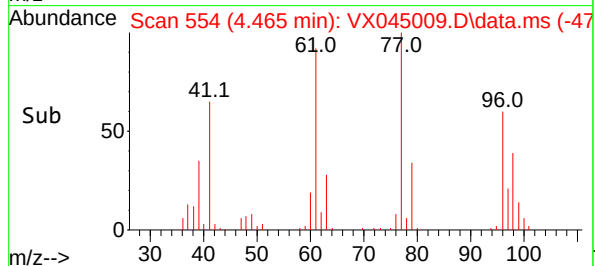
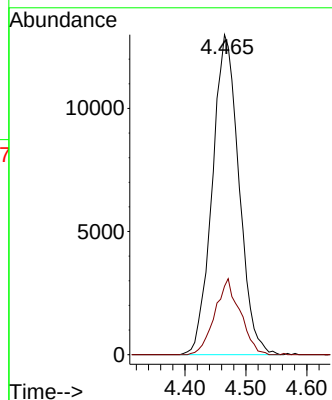
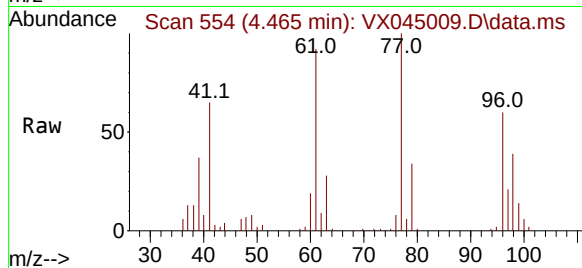
#31  
2,2-Dichloropropane  
Concen: 18.830 ug/l  
RT: 4.465 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 77 Resp: 3951  
Ion Ratio Lower Upper  
77 100  
97 22.5 18.0 27.0

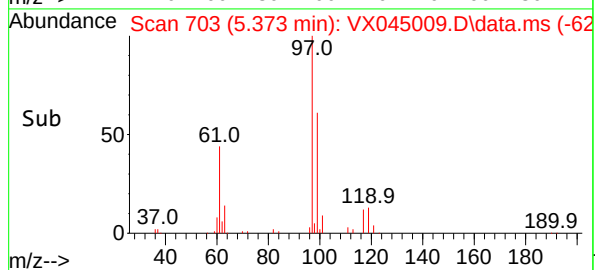
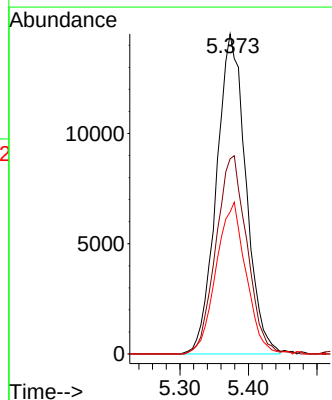
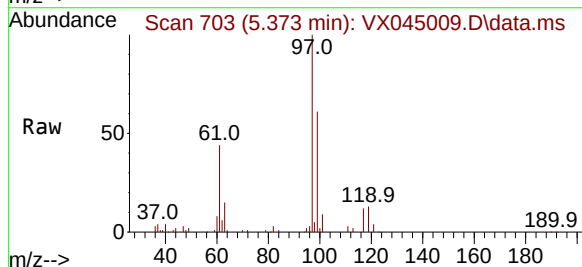
Manual Integrations  
APPROVED

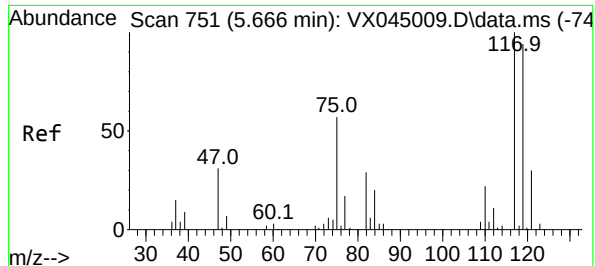
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#32  
1,1,1-Trichloroethane  
Concen: 19.266 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

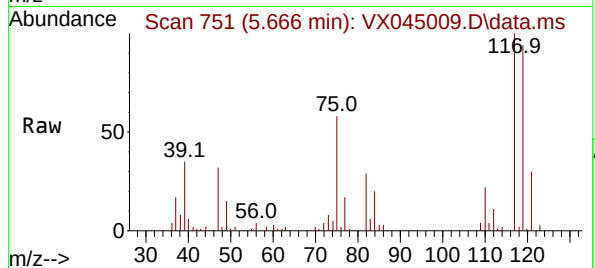
Tgt Ion: 97 Resp: 43317  
Ion Ratio Lower Upper  
97 100  
99 65.2 52.2 78.2  
61 48.1 38.5 57.7





#33  
Carbon Tetrachloride  
Concen: 19.421 ug/l  
RT: 5.666 min Scan# 751  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

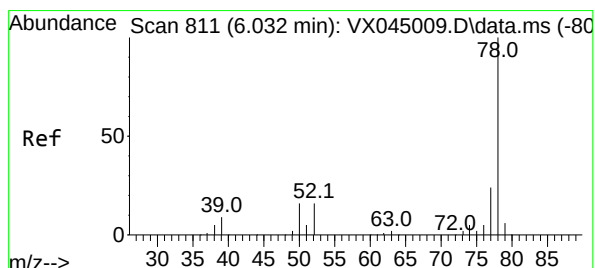
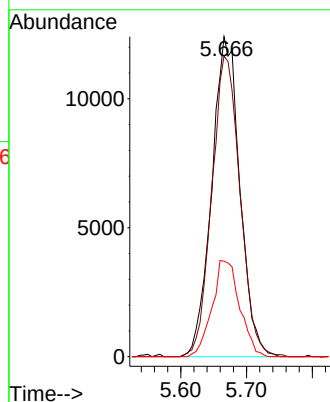
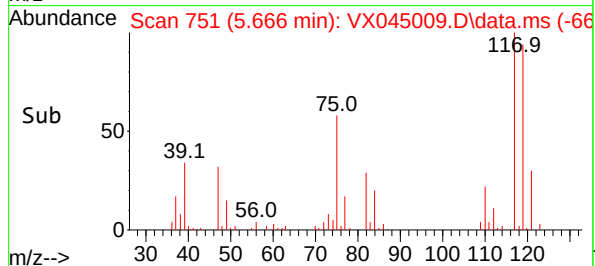
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:117 Resp: 3685  
Ion Ratio Lower Upper  
117 100  
119 93.9 75.1 112.7  
121 29.9 23.9 35.9

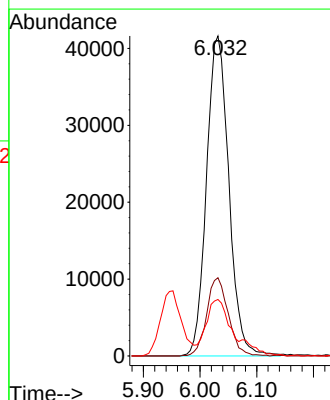
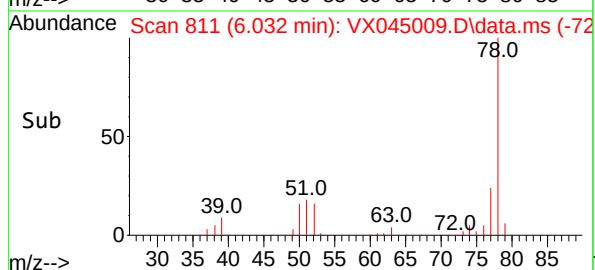
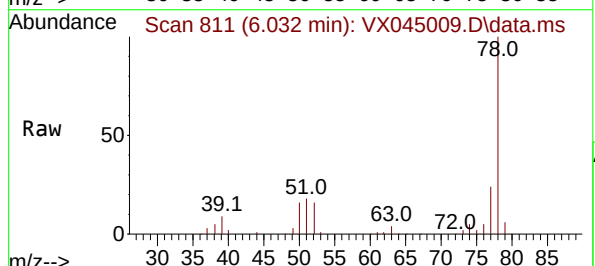
Manual Integrations  
APPROVED

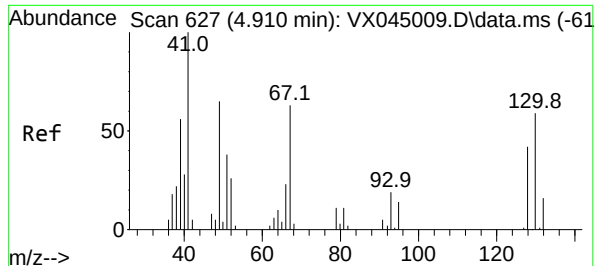
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#34  
Benzene  
Concen: 19.609 ug/l  
RT: 6.032 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 78 Resp: 114107  
Ion Ratio Lower Upper  
78 100  
77 24.5 19.6 29.4  
51 17.2 13.8 20.6





#35

Methacrylonitrile

Concen: 19.509 ug/l

RT: 4.910 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 22370

Ion Ratio Lower Upper

41 100

39 55.6 27.8 83.4

67 63.0 31.5 94.5

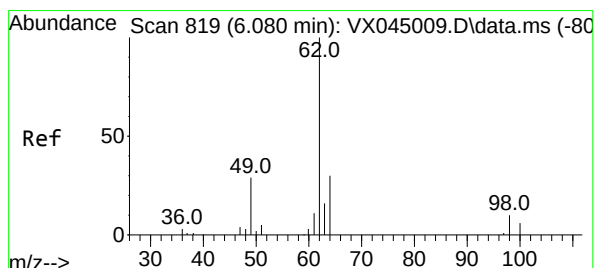
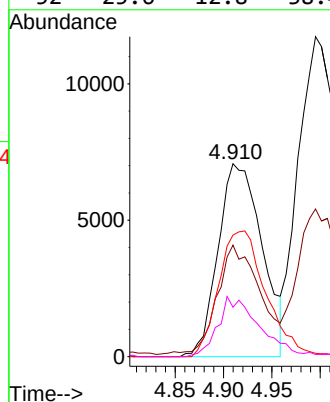
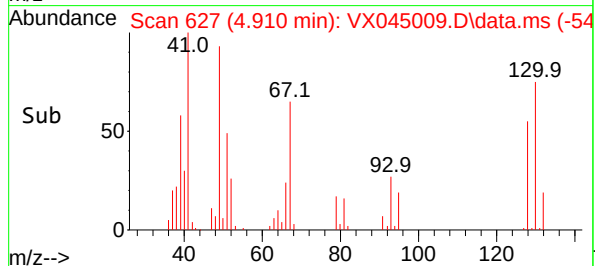
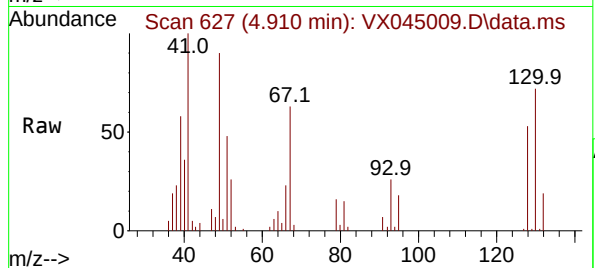
52 25.6 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#36

1,2-Dichloroethane

Concen: 19.604 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX045009.D

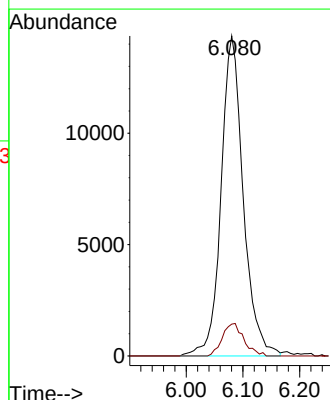
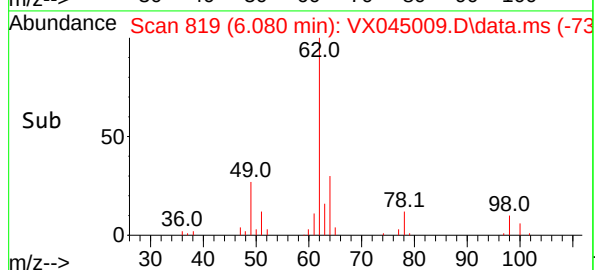
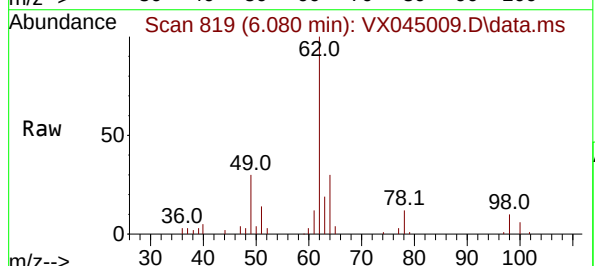
Acq: 21 Feb 2025 10:21

Tgt Ion: 62 Resp: 39058

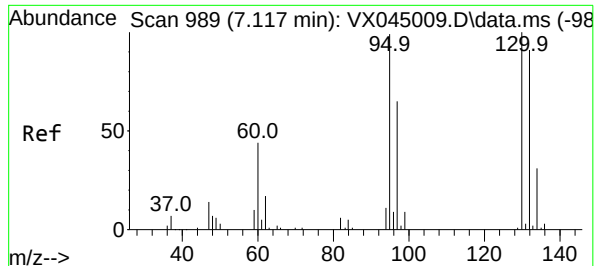
Ion Ratio Lower Upper

62 100

98 9.9 7.9 11.9

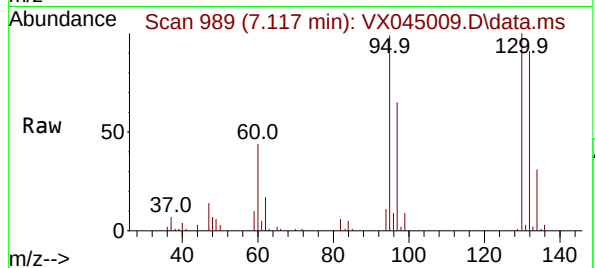






#37  
Trichloroethene  
Concen: 19.753 ug/l  
RT: 7.117 min Scan# 989  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

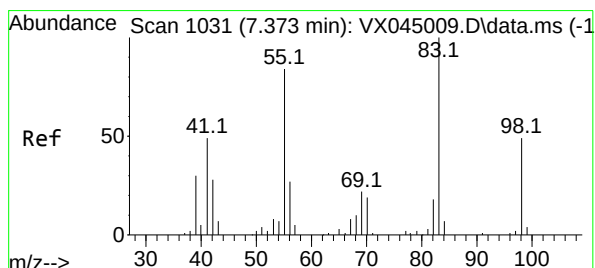
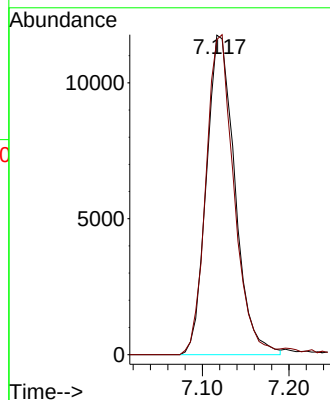
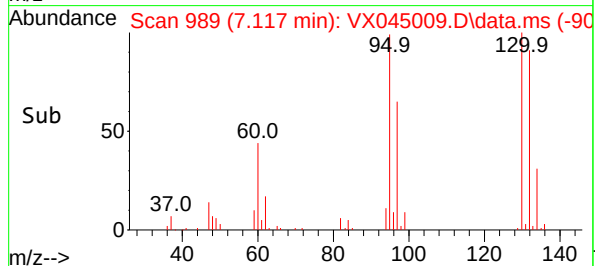
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:130 Resp: 26892  
Ion Ratio Lower Upper  
130 100  
95 98.7 79.0 118.4

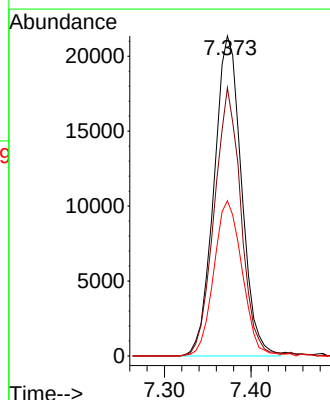
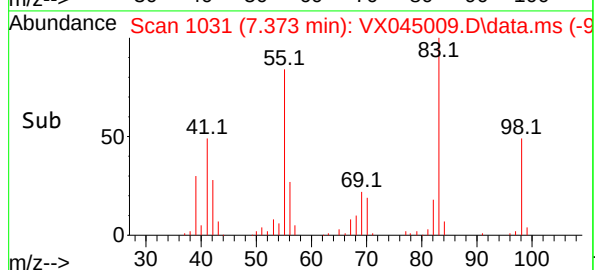
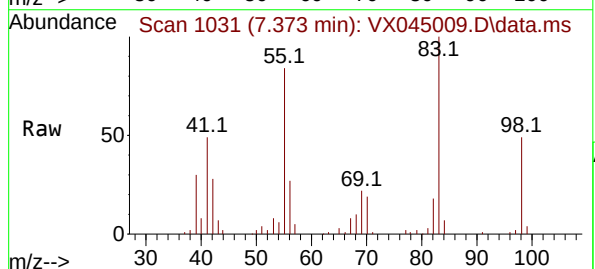
Manual Integrations  
APPROVED

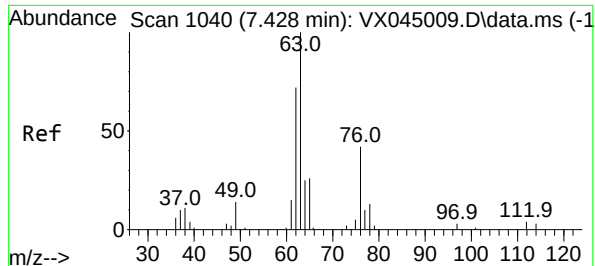
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#38  
Methylcyclohexane  
Concen: 18.899 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 83 Resp: 47088  
Ion Ratio Lower Upper  
83 100  
55 81.3 40.6 122.0  
98 49.7 24.9 74.6





#39

1,2-Dichloropropane

Concen: 19.738 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 2855

Ion Ratio Lower Upper

63 100

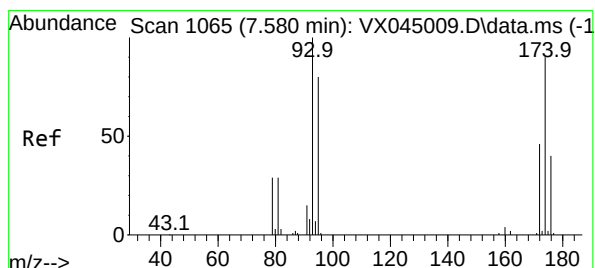
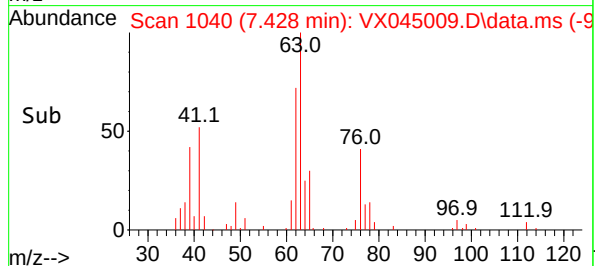
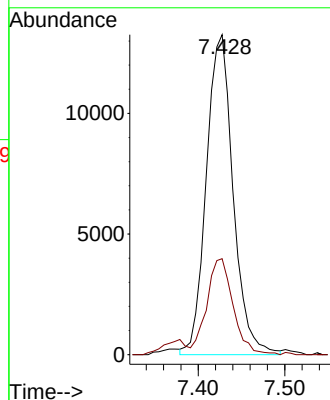
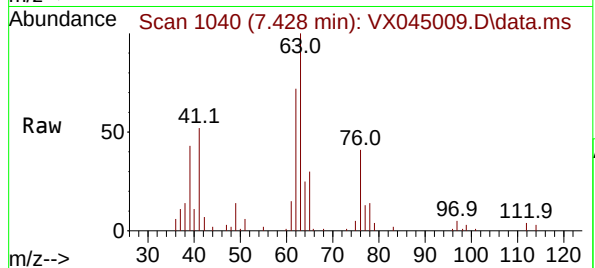
65 30.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#40

Dibromomethane

Concen: 19.509 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

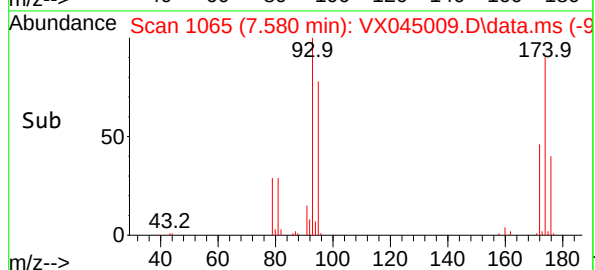
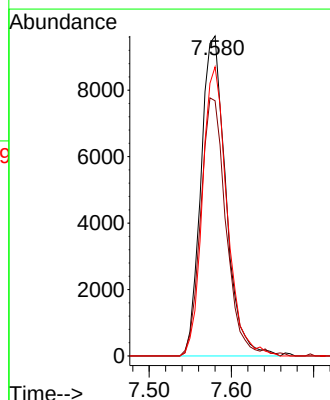
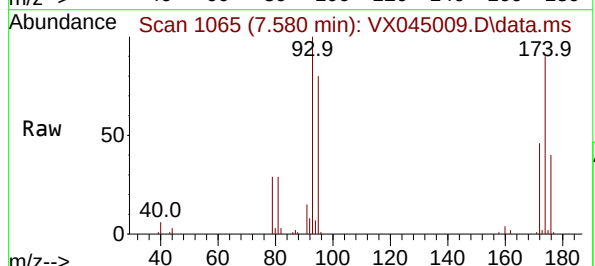
Tgt Ion: 93 Resp: 20254

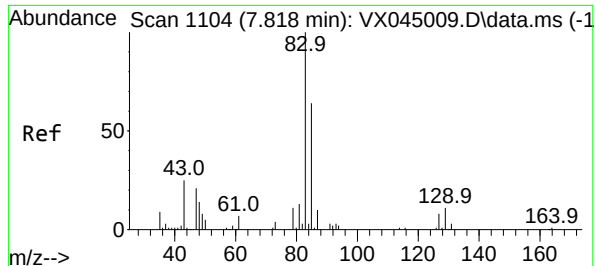
Ion Ratio Lower Upper

93 100

95 81.3 0.0 162.6

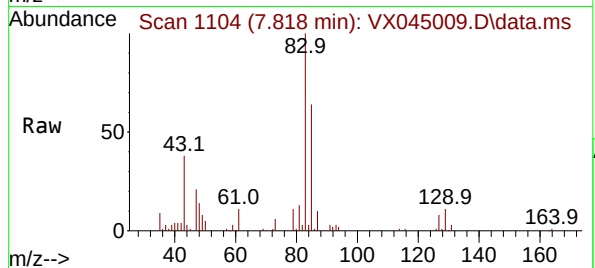
174 89.4 0.0 178.8





#41  
Bromodichloromethane  
Concen: 19.335 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

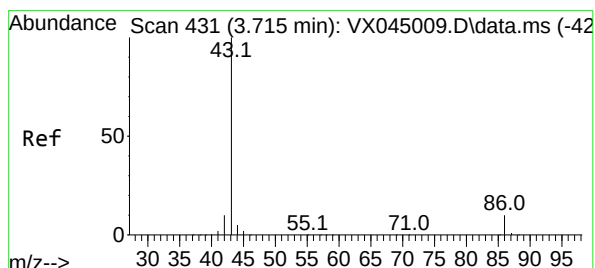
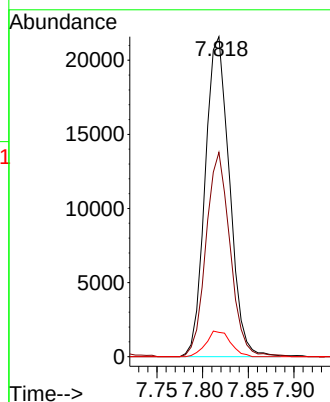
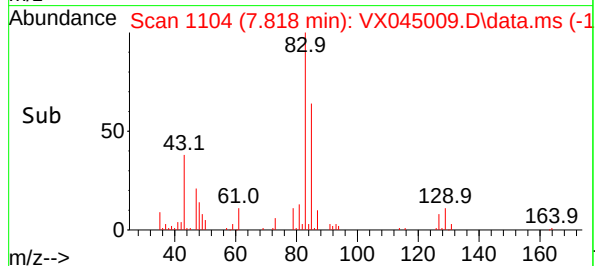
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 83 Resp: 3989  
Ion Ratio Lower Upper  
83 100  
85 63.8 51.0 76.6  
127 7.6 6.1 9.1

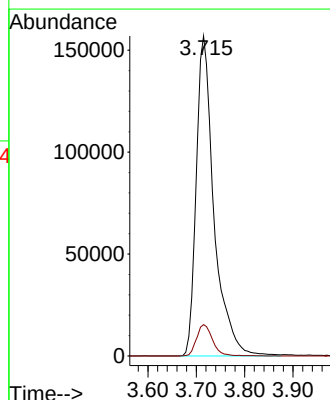
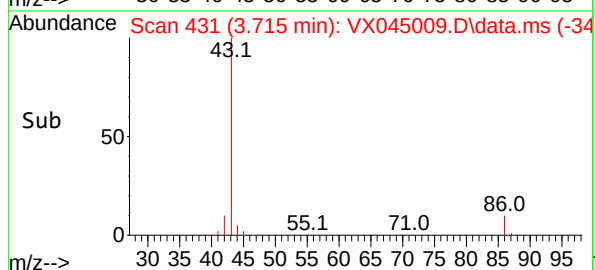
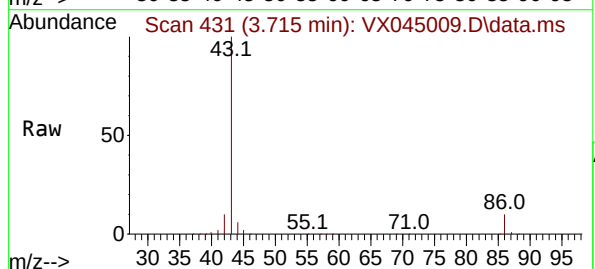
Manual Integrations  
APPROVED

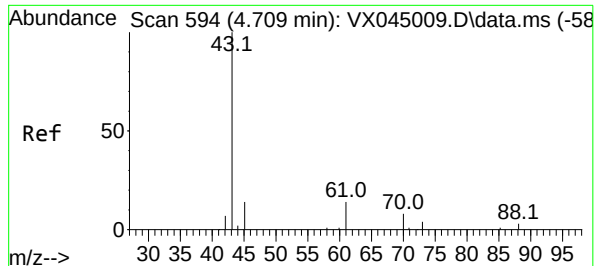
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#42  
Vinyl Acetate  
Concen: 96.216 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 400180  
Ion Ratio Lower Upper  
43 100  
86 8.7 7.0 10.4





#43

Ethyl Acetate

Concen: 19.350 ug/l

RT: 4.709 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 3889

Ion Ratio Lower Upper

43 100

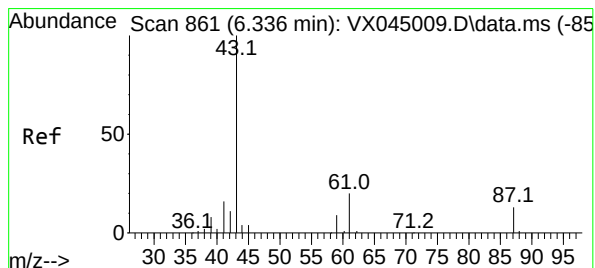
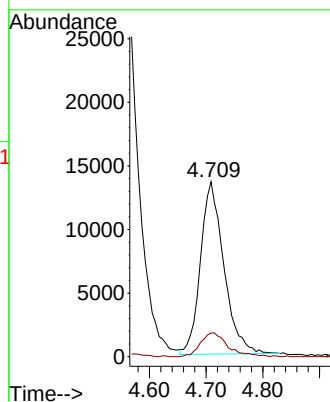
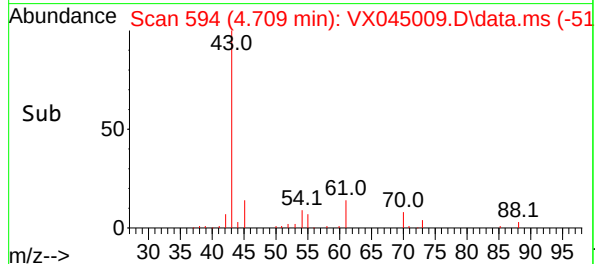
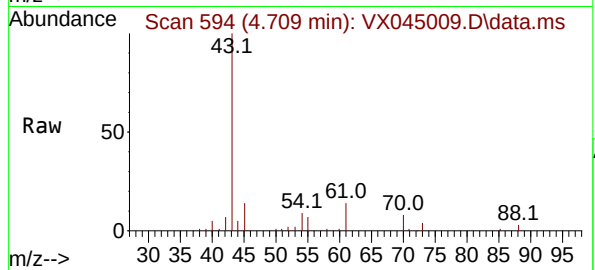
45 15.9 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#44

Isopropyl Acetate

Concen: 18.649 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX045009.D

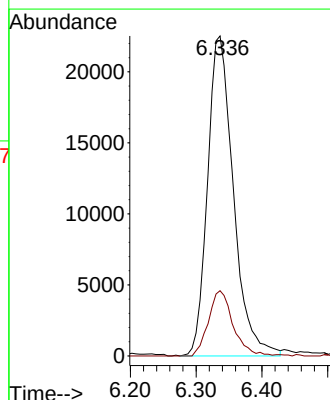
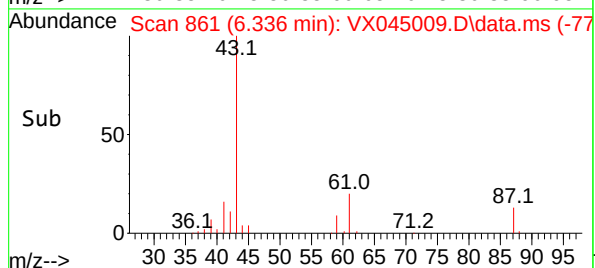
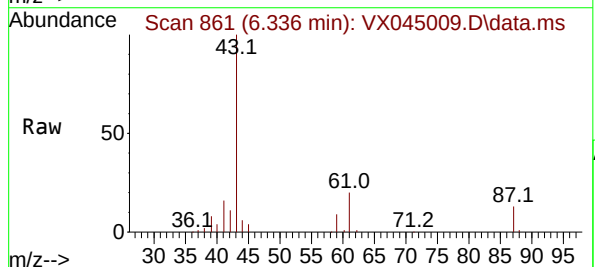
Acq: 21 Feb 2025 10:21

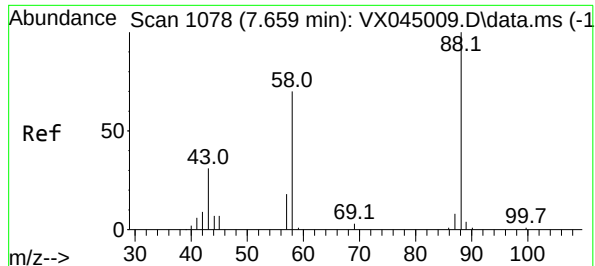
Tgt Ion: 43 Resp: 61693

Ion Ratio Lower Upper

43 100

61 19.4 15.5 23.3





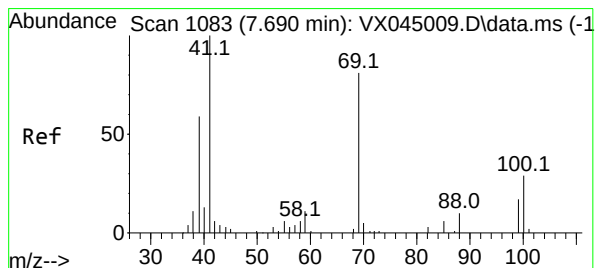
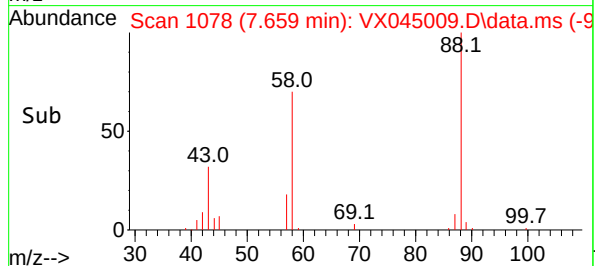
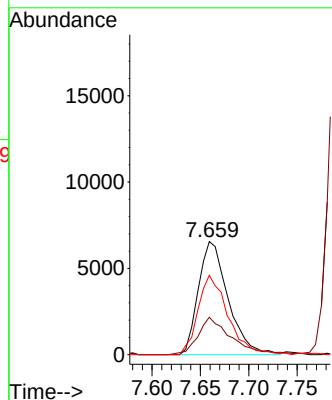
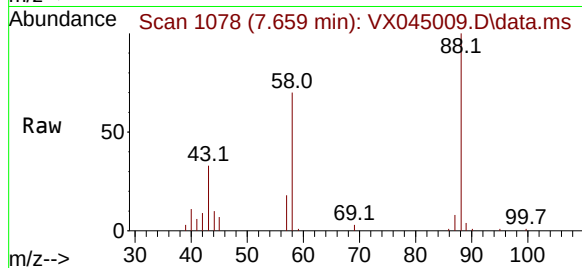
#45  
1,4-Dioxane  
Concen: 407.910 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 88 Resp: 14028  
Ion Ratio Lower Upper  
88 100  
43 37.0 29.6 44.4  
58 70.3 56.2 84.4

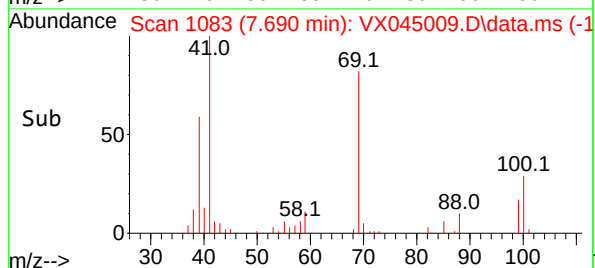
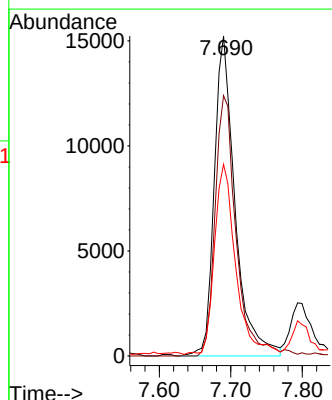
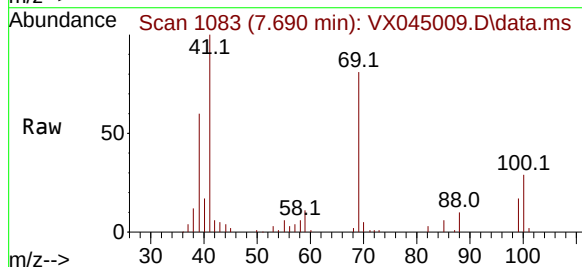
Manual Integrations  
APPROVED

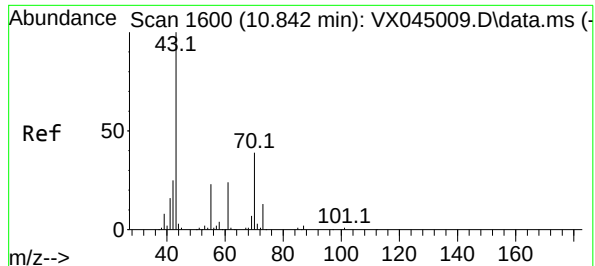
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#46  
Methyl methacrylate  
Concen: 18.904 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 41 Resp: 30666  
Ion Ratio Lower Upper  
41 100  
69 81.4 40.7 122.1  
39 59.0 29.5 88.5





#47

n-amyl Acetate

Concen: 18.814 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 54008

Ion Ratio Lower Upper

43 100

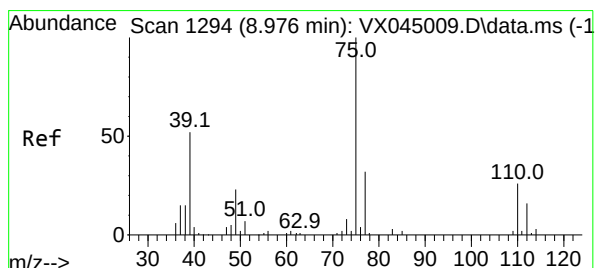
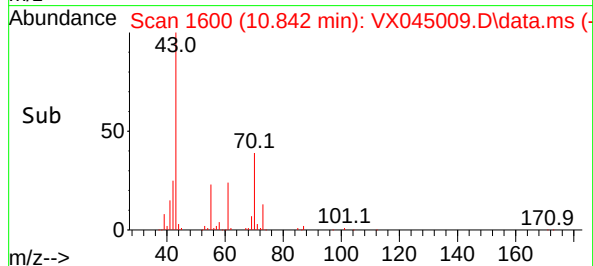
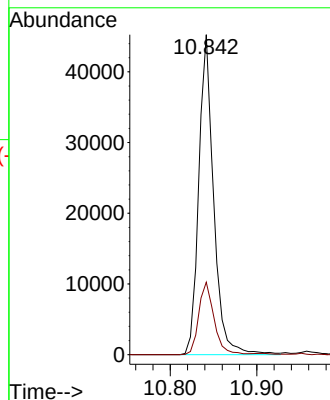
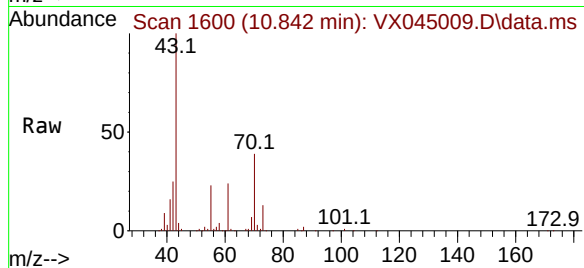
55 23.2 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#48

t-1,3-Dichloropropene

Concen: 17.922 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX045009.D

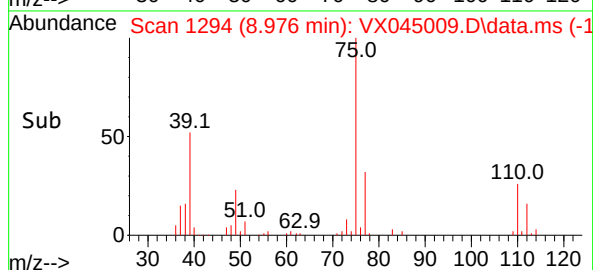
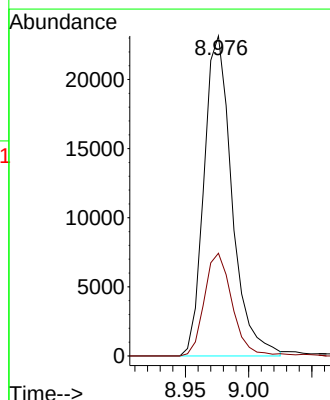
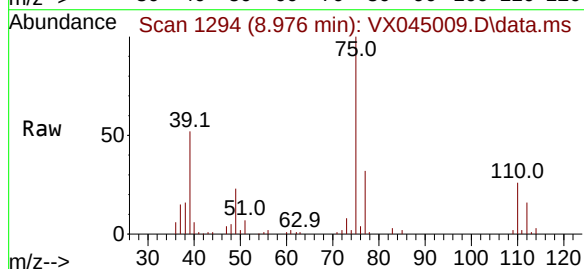
Acq: 21 Feb 2025 10:21

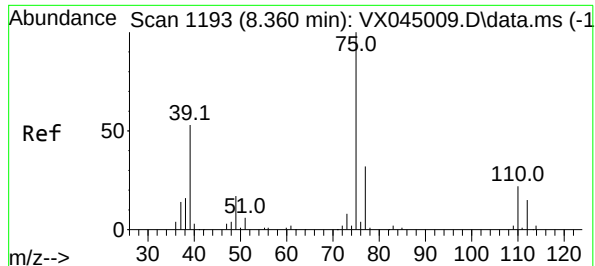
Tgt Ion: 75 Resp: 35645

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 18.974 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 42718

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9

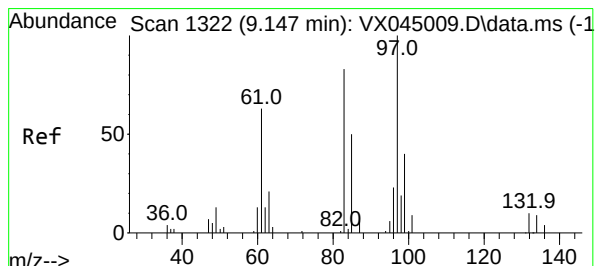
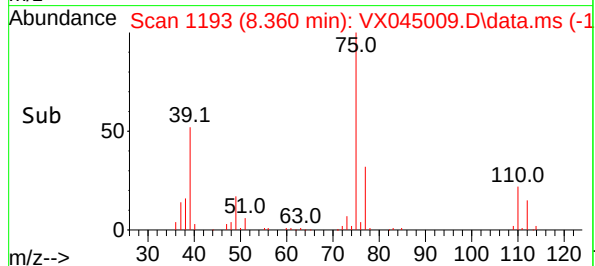
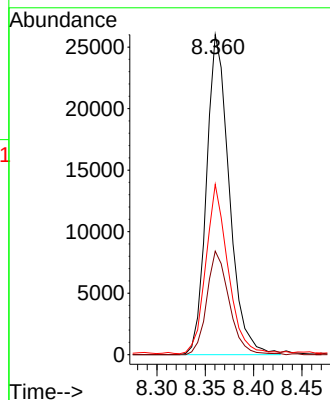
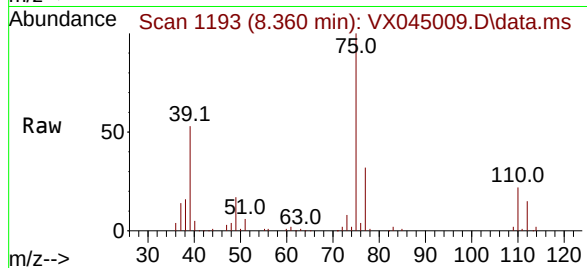
39 52.9 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

1,1,2-Trichloroethane

Concen: 20.047 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Tgt Ion: 97 Resp: 27147

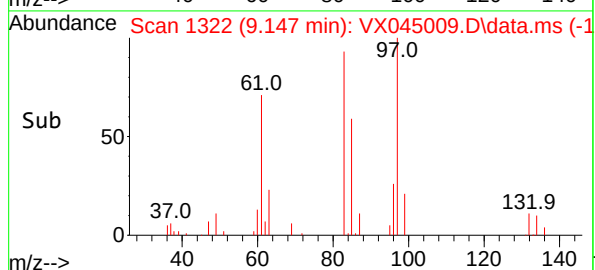
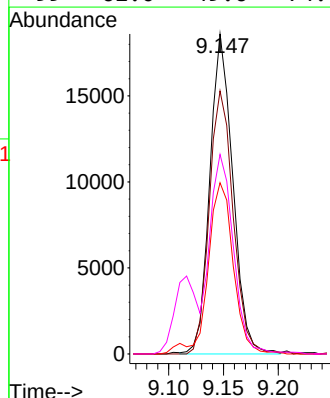
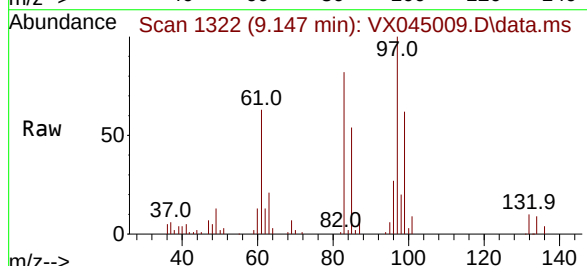
Ion Ratio Lower Upper

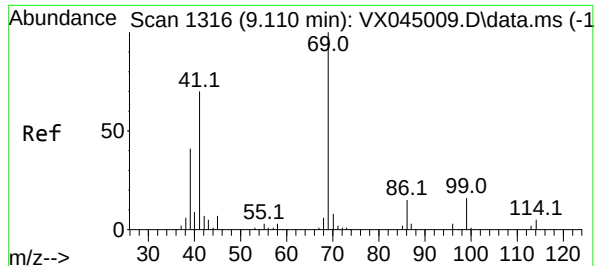
97 100

83 82.5 66.0 99.0

85 53.1 42.5 63.7

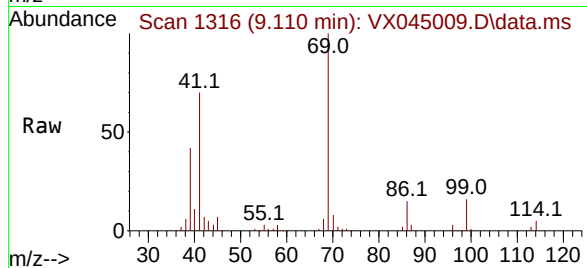
99 62.0 49.6 74.4





#51  
Ethyl methacrylate  
Concen: 18.495 ug/l  
RT: 9.110 min Scan# 1316  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

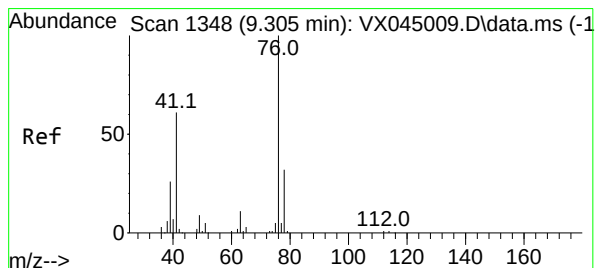
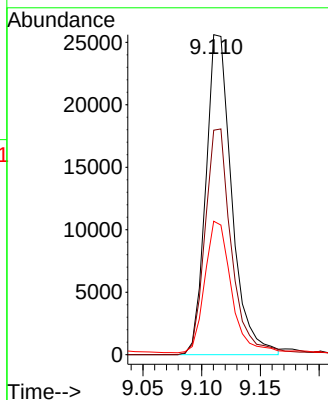
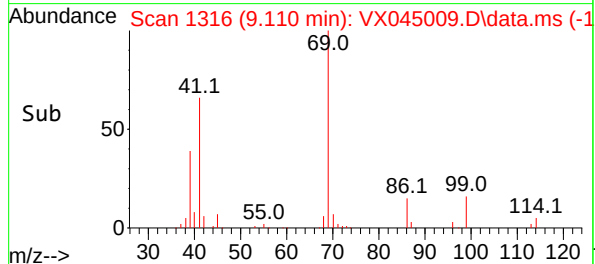
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 69 Resp: 39389  
Ion Ratio Lower Upper  
69 100  
41 70.2 35.1 105.3  
39 41.1 20.5 61.6

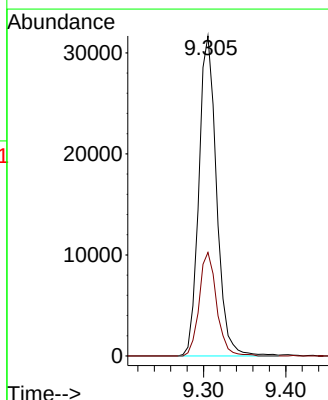
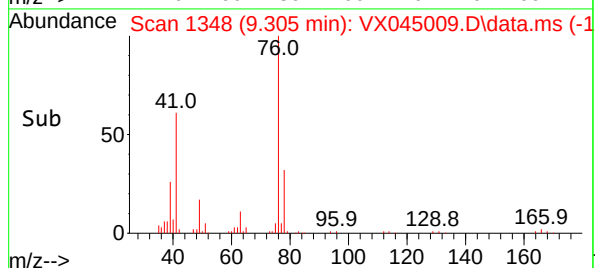
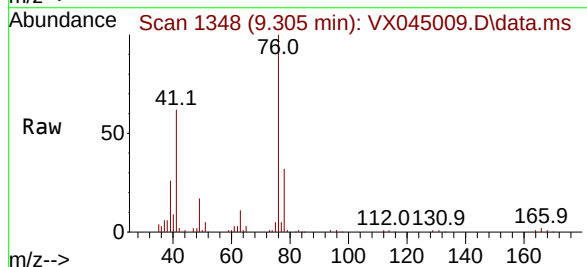
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

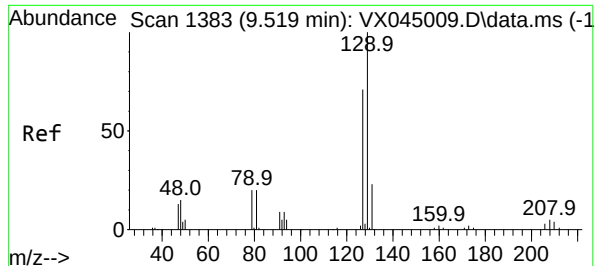


#52  
1,3-Dichloropropane  
Concen: 19.965 ug/l  
RT: 9.305 min Scan# 1348  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 76 Resp: 47373  
Ion Ratio Lower Upper  
76 100  
78 31.8 0.0 63.6

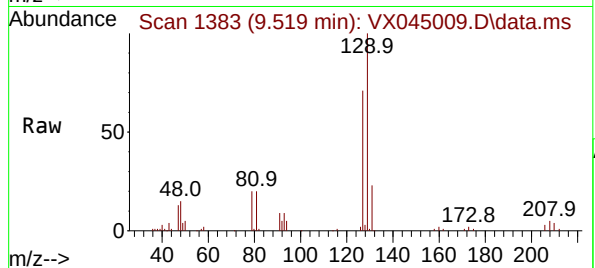






#53  
Dibromochloromethane  
Concen: 19.556 ug/l  
RT: 9.519 min Scan# 1383  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

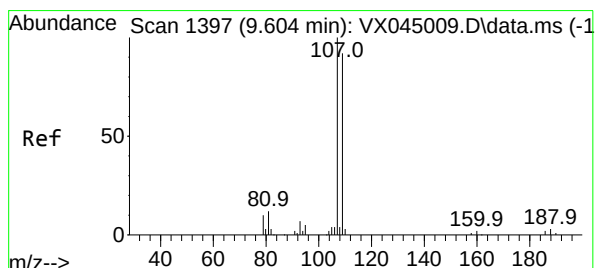
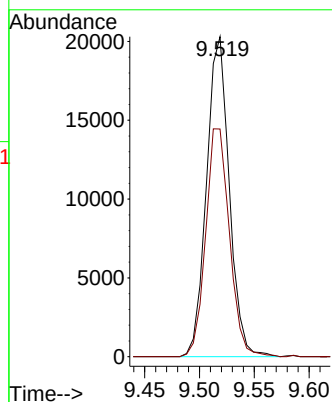
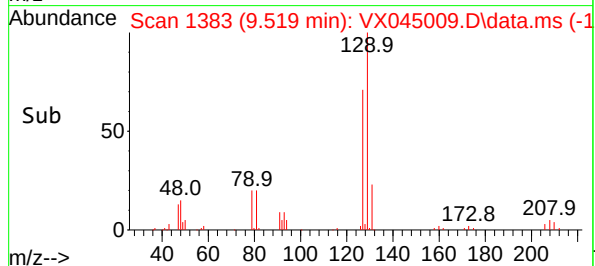
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:129 Resp: 29289  
Ion Ratio Lower Upper  
129 100  
127 74.6 37.3 111.9

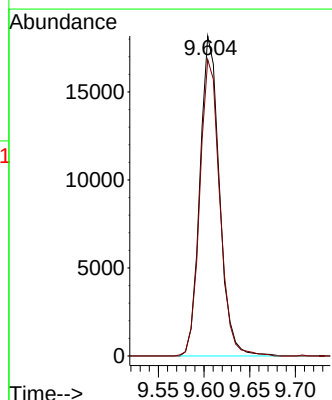
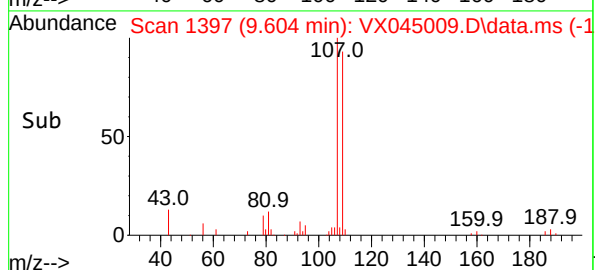
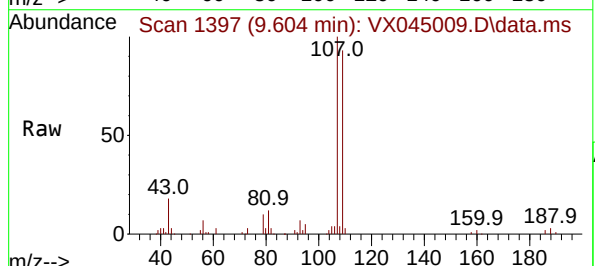
Manual Integrations  
APPROVED

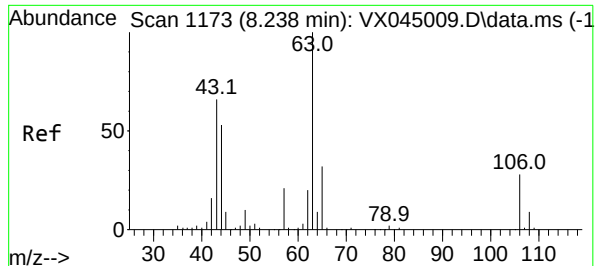
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#54  
1,2-Dibromoethane  
Concen: 19.597 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion:107 Resp: 26948  
Ion Ratio Lower Upper  
107 100  
109 94.8 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 96.576 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 105624

Ion Ratio Lower Upper

63 100

65 32.7 26.2 39.2

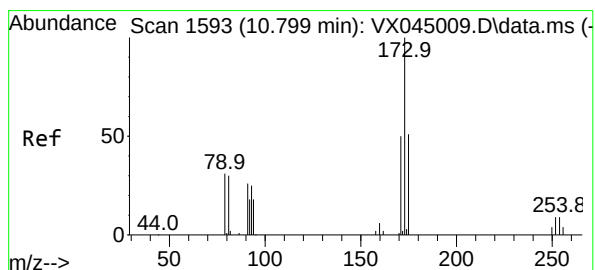
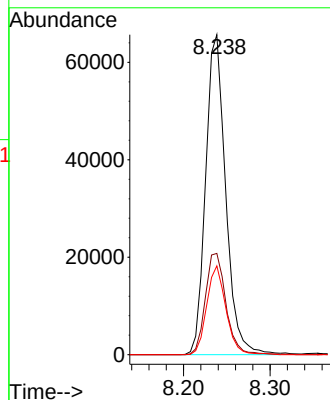
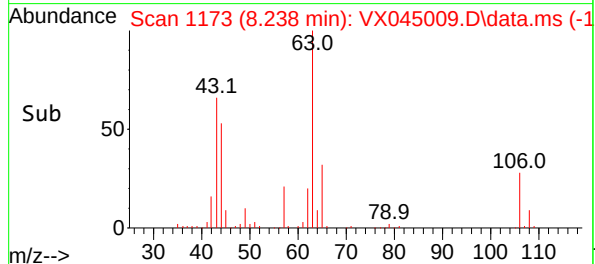
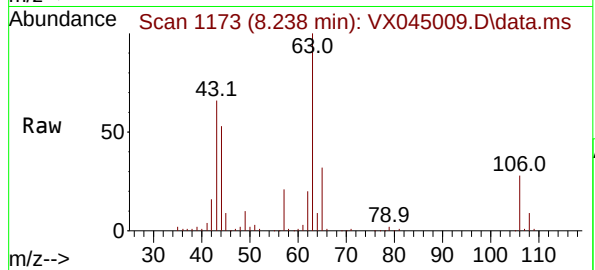
106 26.5 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#56

Bromoform

Concen: 18.467 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

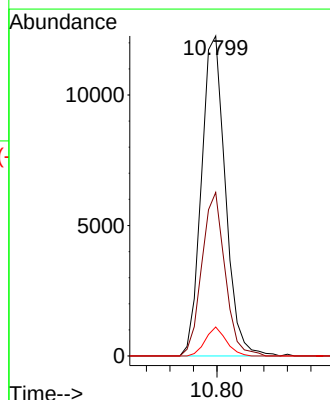
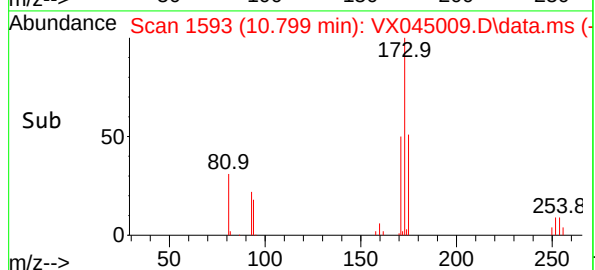
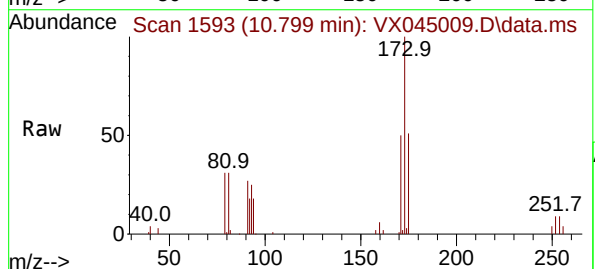
Tgt Ion:173 Resp: 17331

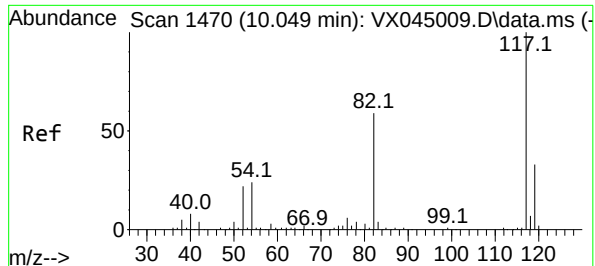
Ion Ratio Lower Upper

173 100

175 49.5 39.6 59.4

254 7.9 6.3 9.5





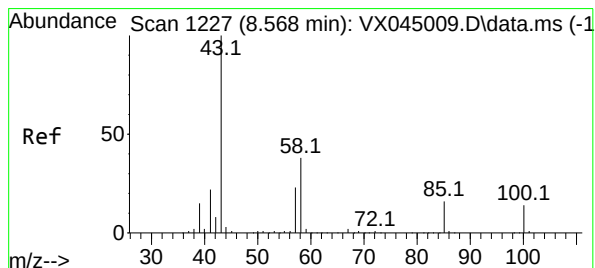
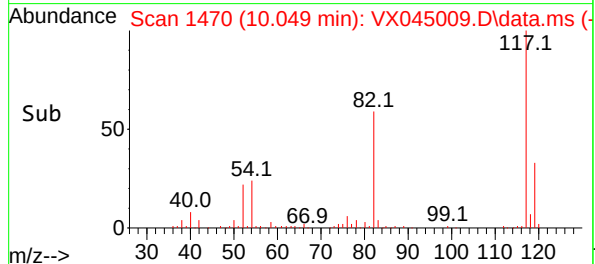
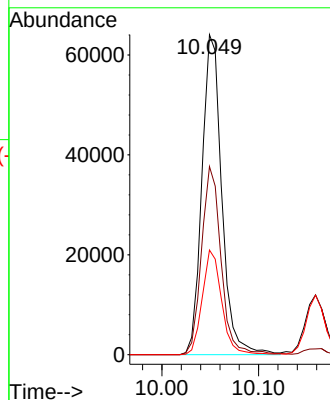
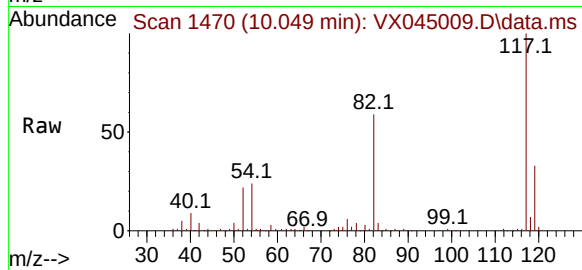
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 117 Resp: 91818  
Ion Ratio Lower Upper  
117 100  
82 57.3 45.8 68.8  
119 31.9 25.5 38.3

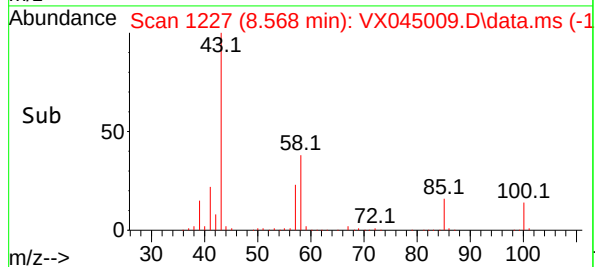
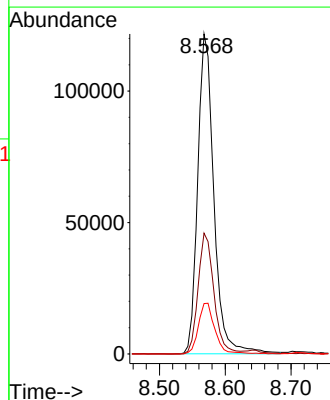
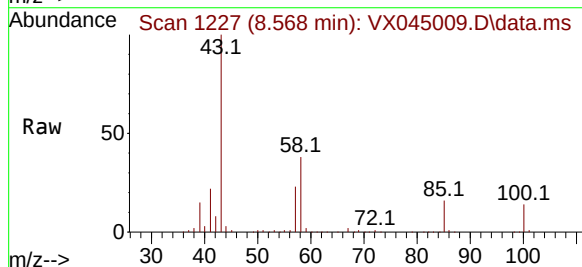
Manual Integrations  
APPROVED

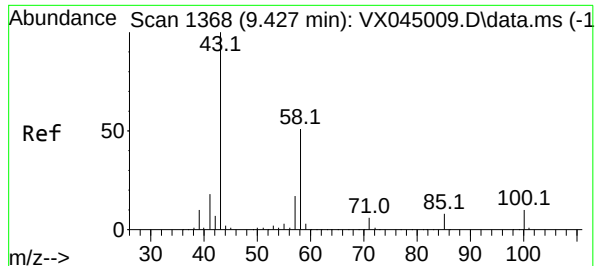
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 99.596 ug/l  
RT: 8.568 min Scan# 1227  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 208023  
Ion Ratio Lower Upper  
43 100  
58 36.9 29.5 44.3  
85 16.1 12.9 19.3





#59

2-Hexanone

Concen: 98.899 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045009.D

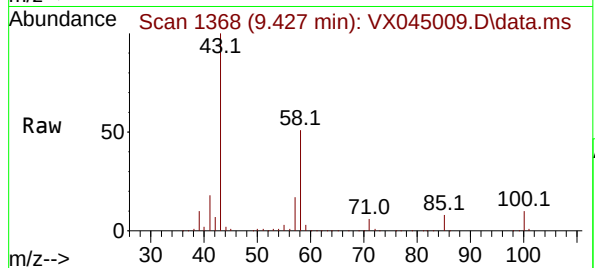
Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020



Tgt Ion: 43 Resp: 149308

Ion Ratio Lower Upper

43 100

58 52.0 41.6 62.4

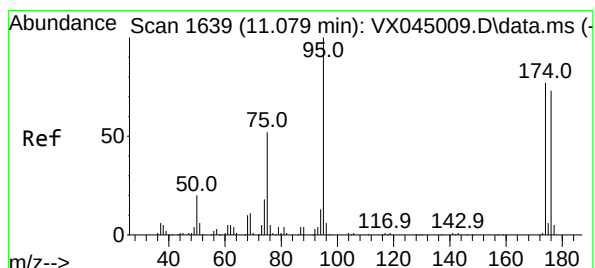
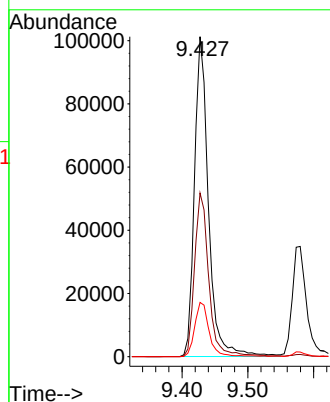
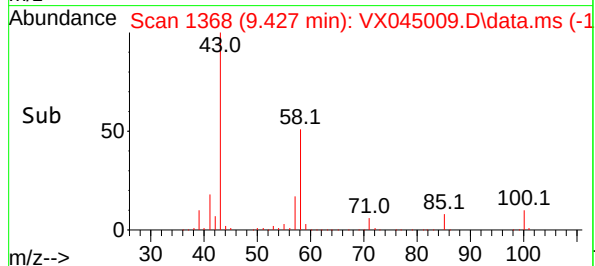
57 17.2 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#60

4-Bromofluorobenzene

Concen: 29.939 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

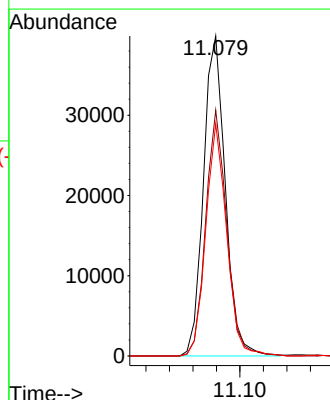
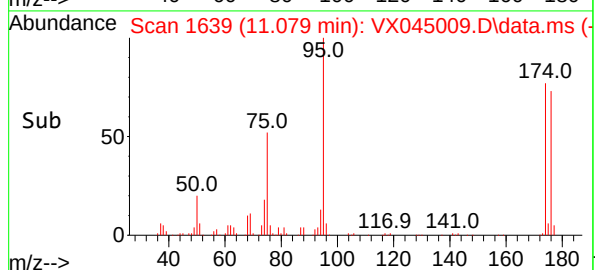
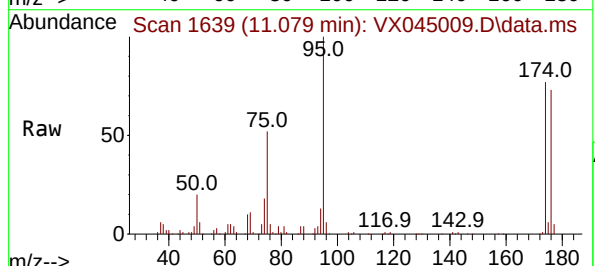
Tgt Ion: 95 Resp: 51382

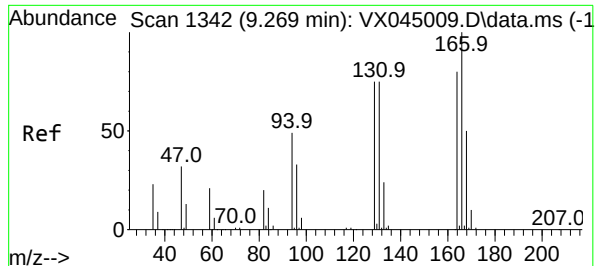
Ion Ratio Lower Upper

95 100

174 74.4 59.5 89.3

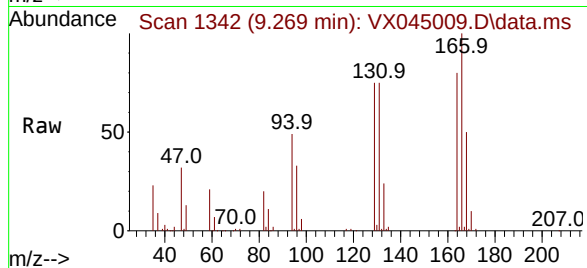
176 69.4 55.5 83.3





#61  
Tetrachloroethene  
Concen: 19.926 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

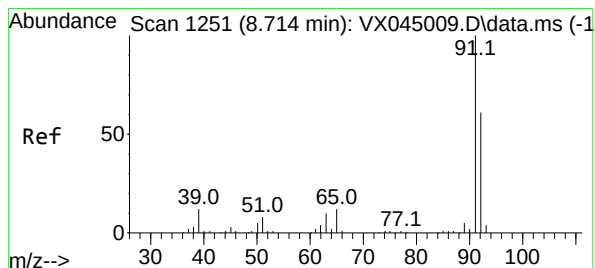
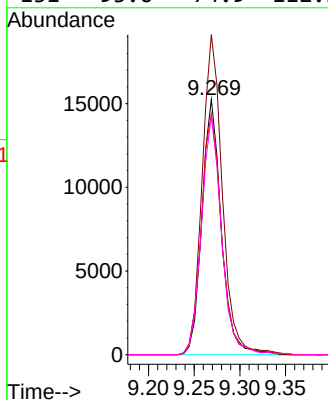
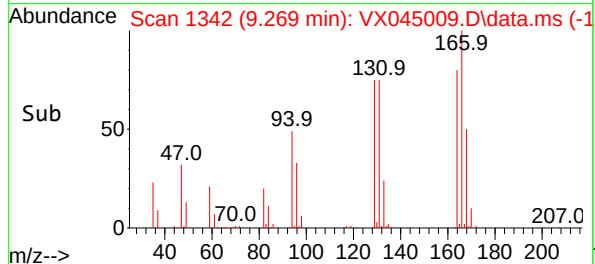
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:164 Resp: 22529  
Ion Ratio Lower Upper  
164 100  
166 125.4 100.3 150.5  
129 94.4 75.5 113.3  
131 93.6 74.9 112.3

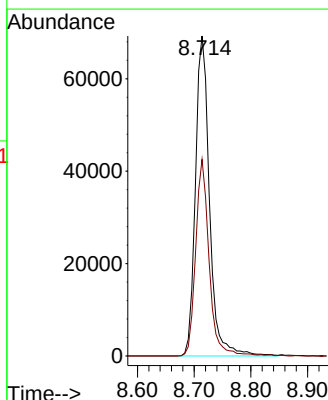
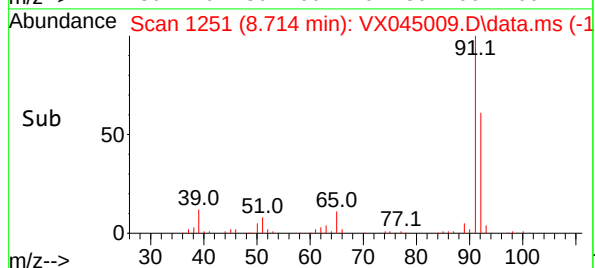
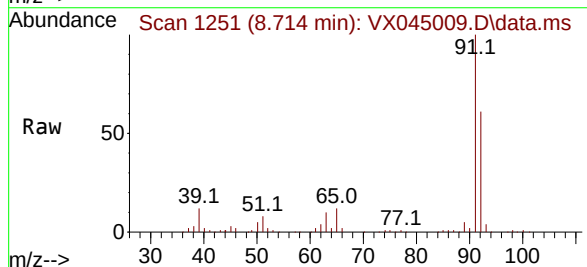
Manual Integrations  
APPROVED

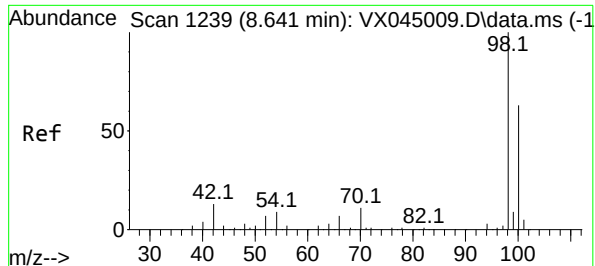
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#62  
Toluene  
Concen: 19.642 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

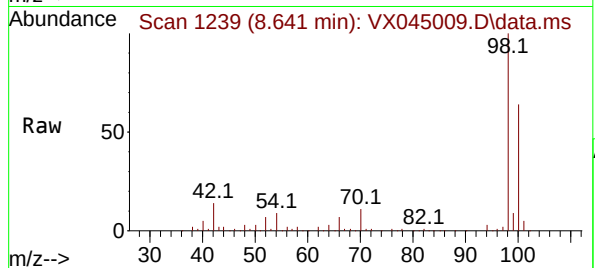
Tgt Ion: 91 Resp: 119473  
Ion Ratio Lower Upper  
91 100  
92 58.6 46.9 70.3





#63  
Toluene-d8  
Concen: 30.175 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

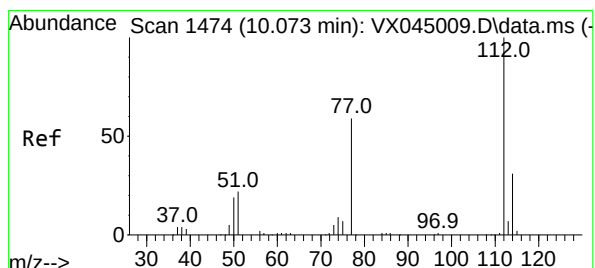
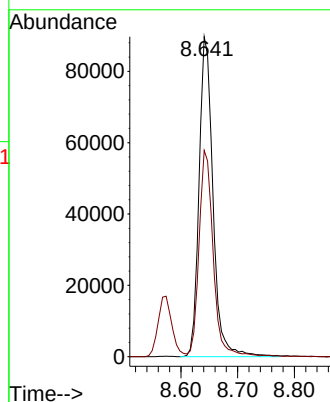
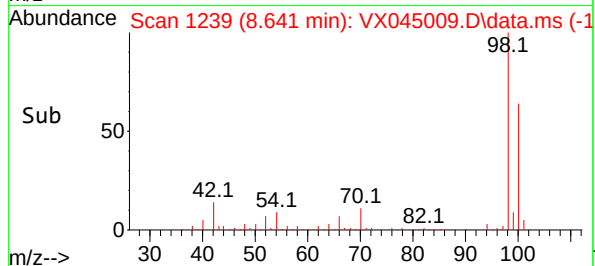
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 98 Resp: 153274  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.7 77.5

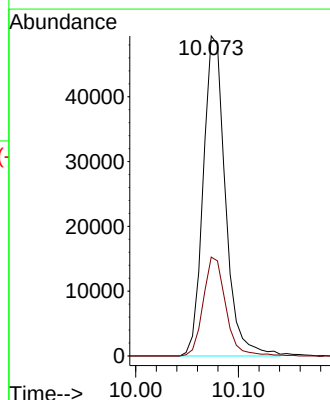
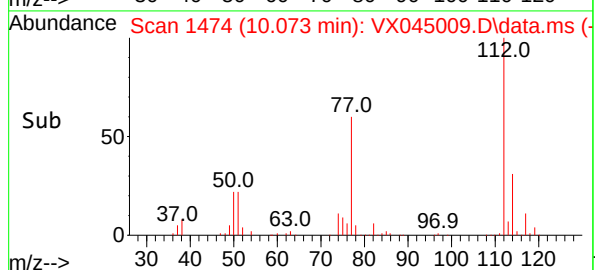
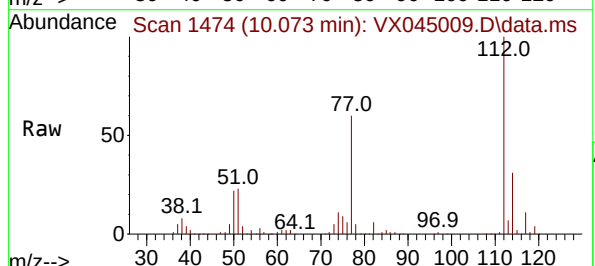
Manual Integrations  
APPROVED

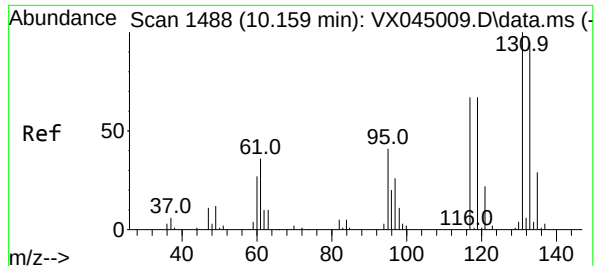
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#64  
Chlorobenzene  
Concen: 19.710 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion:112 Resp: 74287  
Ion Ratio Lower Upper  
112 100  
114 30.9 24.7 37.1





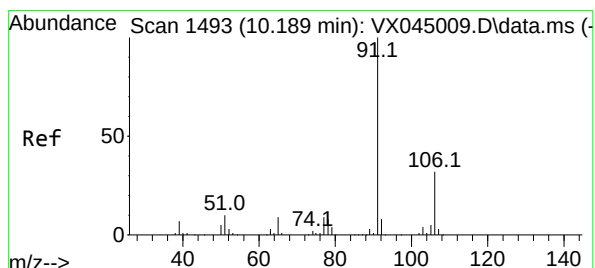
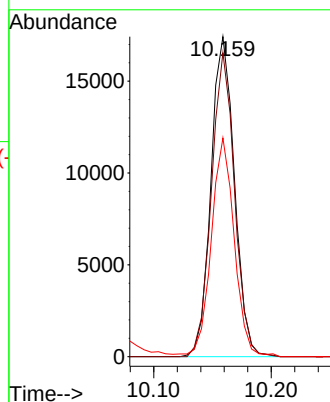
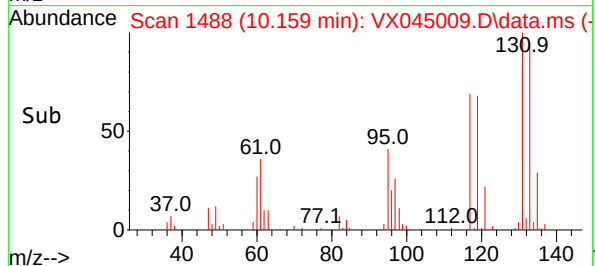
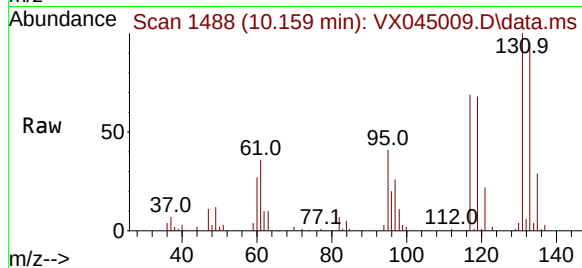
#65  
1,1,1,2-Tetrachloroethane  
Concen: 19.406 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion:131 Resp: 24135  
Ion Ratio Lower Upper  
131 100  
133 93.9 0.0 187.8  
119 66.5 0.0 133.0

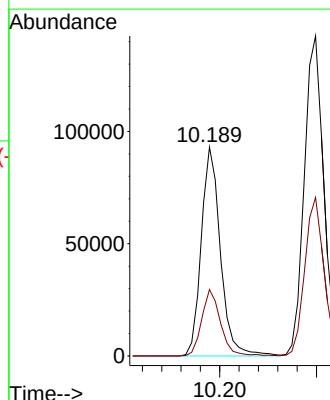
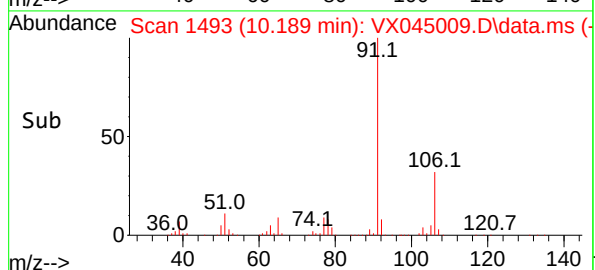
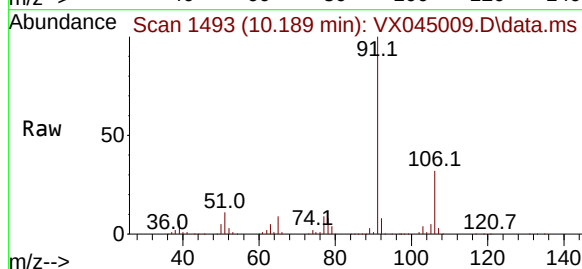
Manual Integrations  
APPROVED

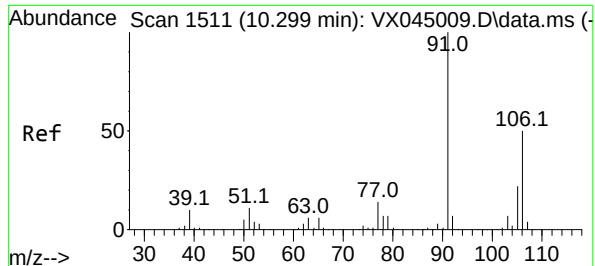
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#66  
Ethyl Benzene  
Concen: 19.302 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 128535  
Ion Ratio Lower Upper  
91 100  
106 31.8 25.4 38.2





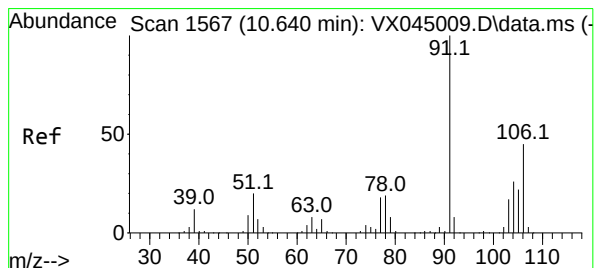
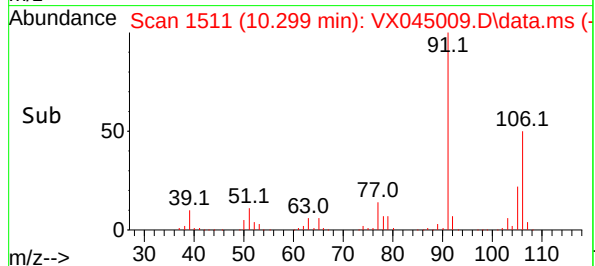
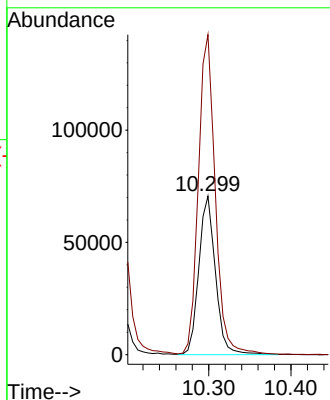
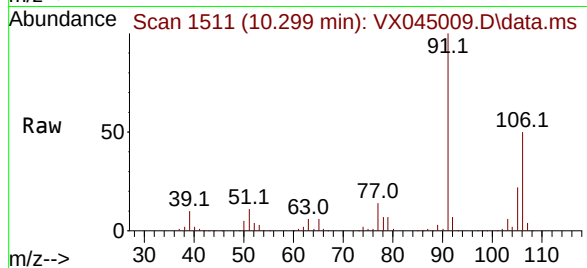
#67  
m/p-Xylenes  
Concen: 40.260 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020

Tgt Ion:106 Resp: 9988  
Ion Ratio Lower Upper  
106 100  
91 204.6 163.7 245.5

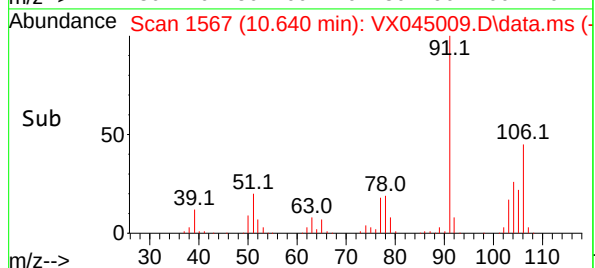
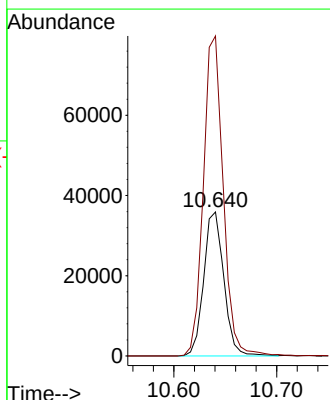
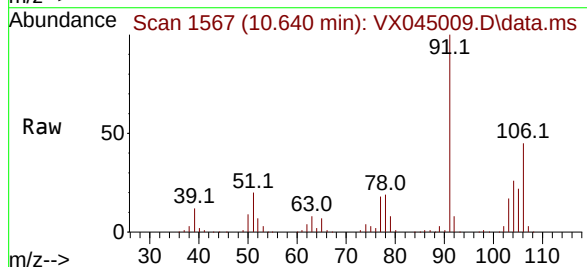
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

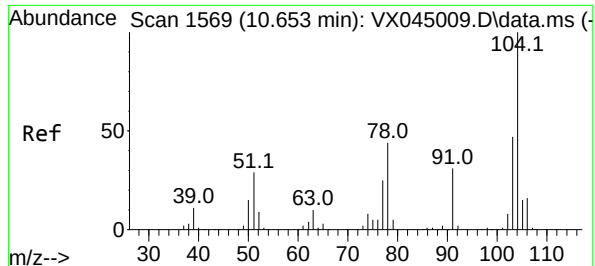


#68  
o-Xylene  
Concen: 20.071 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion:106 Resp: 48859  
Ion Ratio Lower Upper  
106 100  
91 219.4 109.7 329.1







#69

Styrene

Concen: 19.839 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion:104 Resp: 80660

Ion Ratio Lower Upper

104 100

78 51.7 41.4 62.0

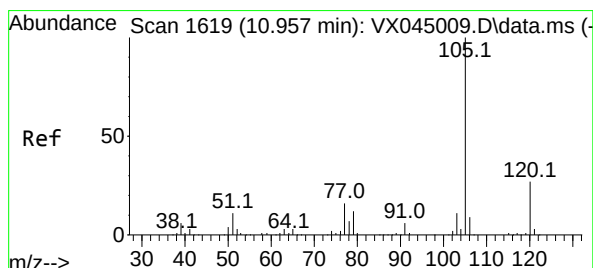
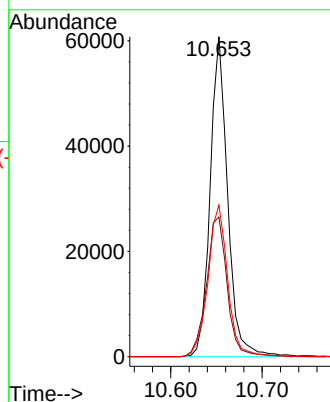
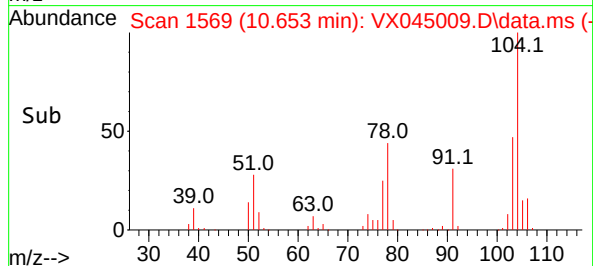
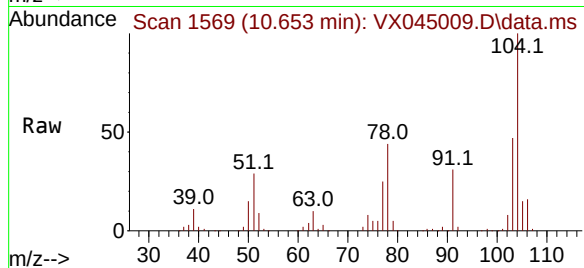
103 53.7 43.0 64.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#70

Isopropylbenzene

Concen: 19.888 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX045009.D

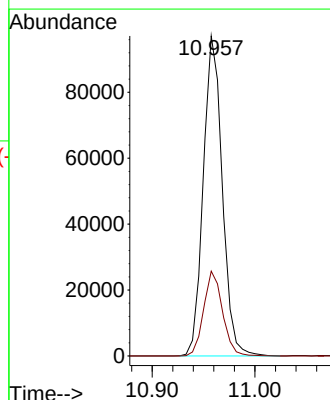
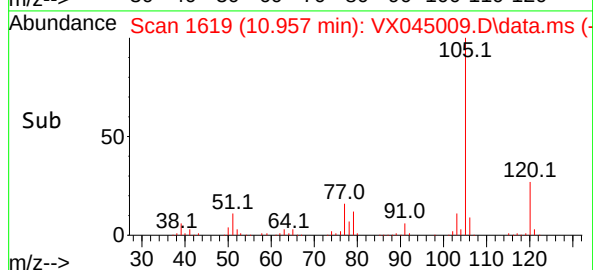
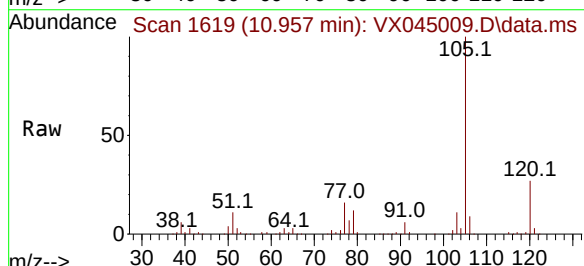
Acq: 21 Feb 2025 10:21

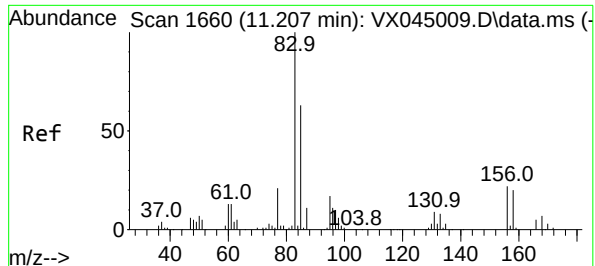
Tgt Ion:105 Resp: 124935

Ion Ratio Lower Upper

105 100

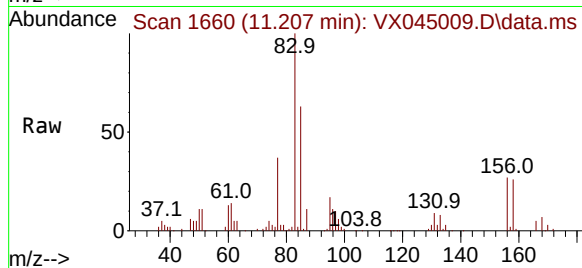
120 26.3 18.4 34.2





#71  
1,1,2,2-Tetrachloroethane  
Concen: 19.683 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

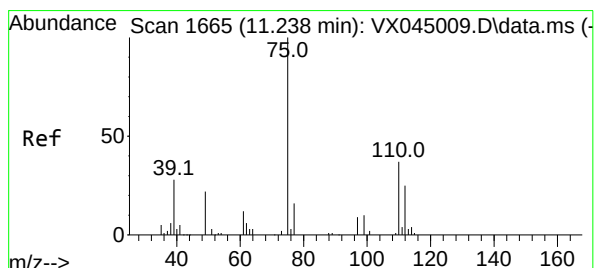
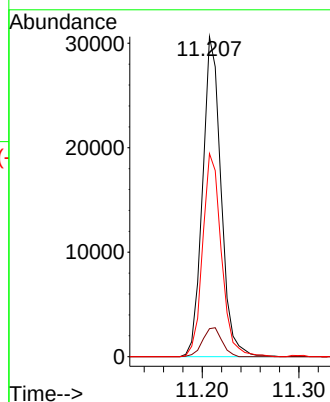
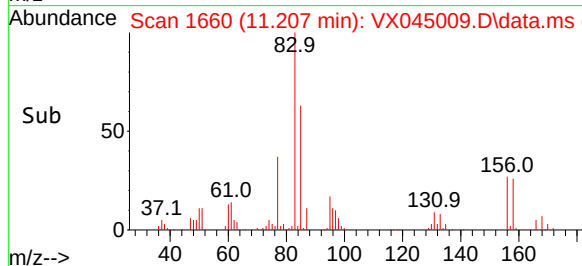
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 83 Resp: 40659  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.5 32.3 96.8

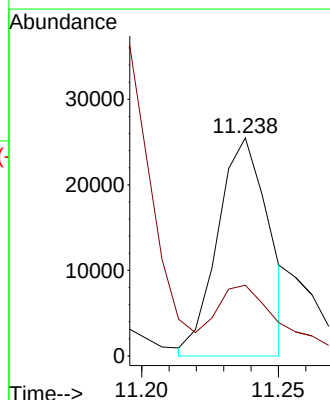
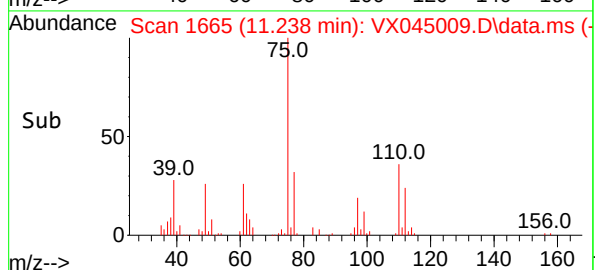
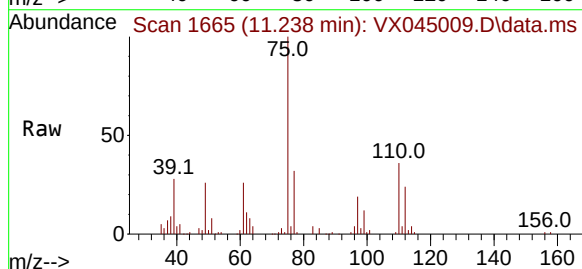
Manual Integrations  
APPROVED

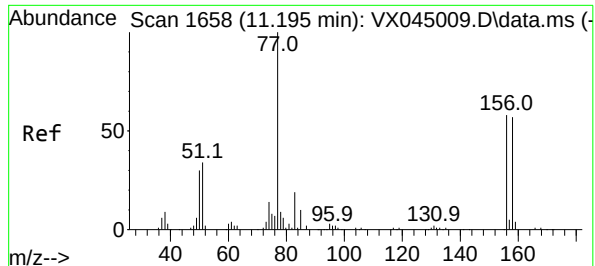
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 19.450 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

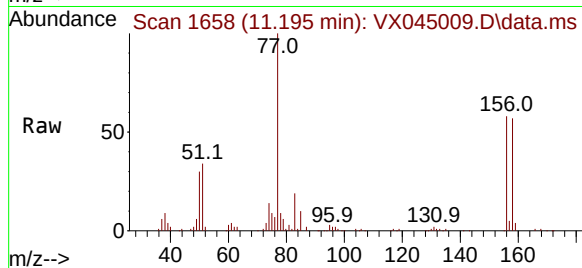
Tgt Ion: 75 Resp: 33046  
Ion Ratio Lower Upper  
75 100  
77 42.0 0.0 84.0





#73  
Bromobenzene  
Concen: 19.777 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

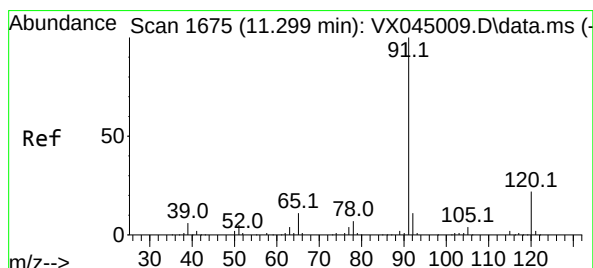
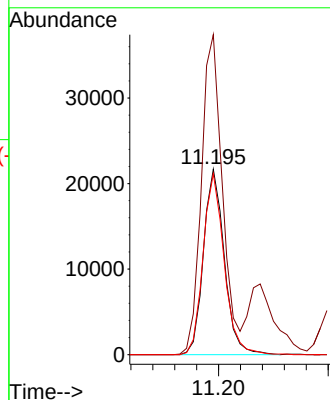
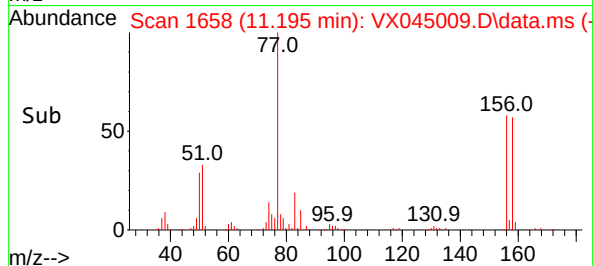
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:156 Resp: 2860  
Ion Ratio Lower Upper  
156 100  
77 173.6 0.0 347.2  
158 98.8 0.0 197.6

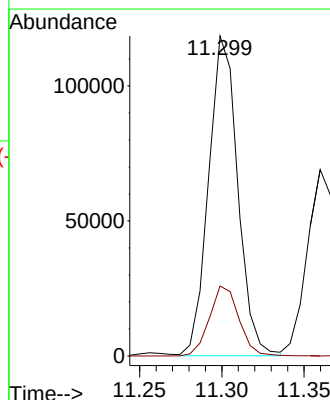
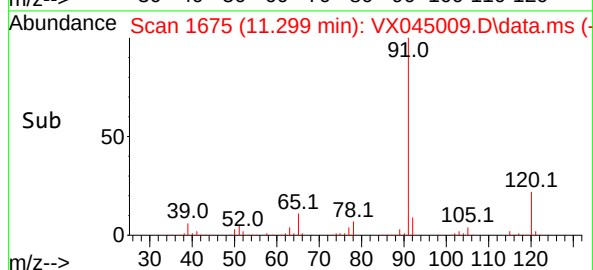
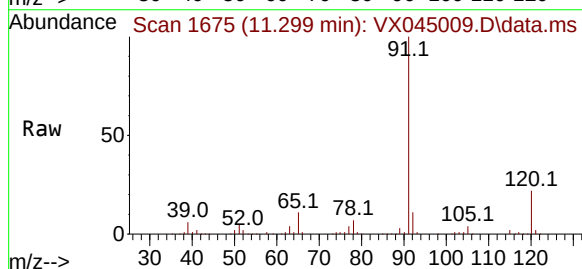
Manual Integrations  
APPROVED

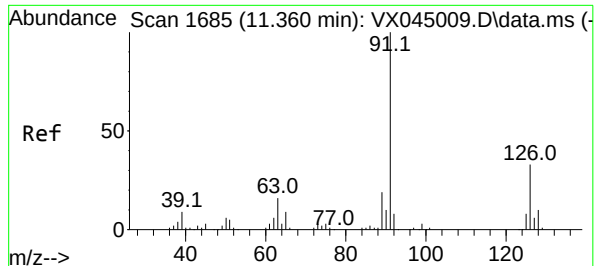
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#74  
n-propylbenzene  
Concen: 19.544 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 146105  
Ion Ratio Lower Upper  
91 100  
120 22.1 0.0 44.2





#75

2-Chlorotoluene

Concen: 19.883 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 91 Resp: 8985

Ion Ratio Lower Upper

91 100

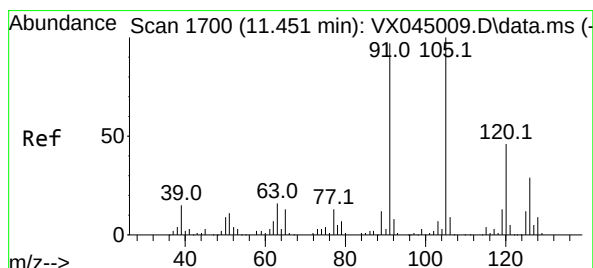
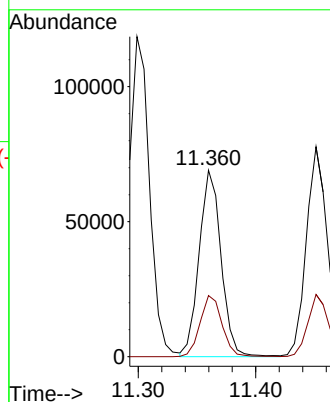
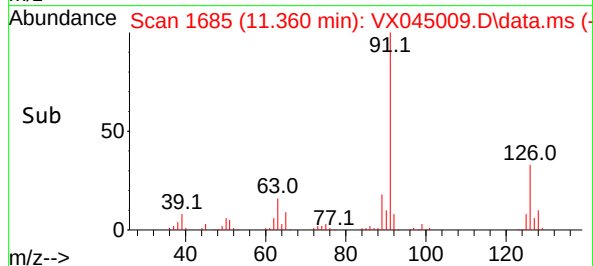
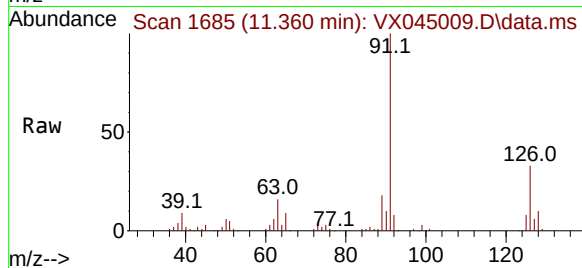
126 32.7 0.0 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#76

1,3,5-Trimethylbenzene

Concen: 19.977 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045009.D

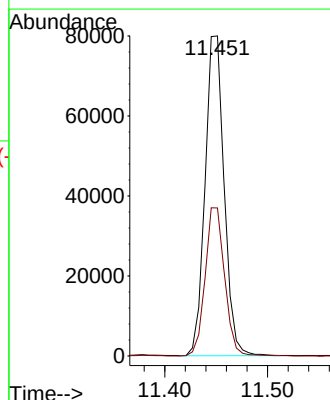
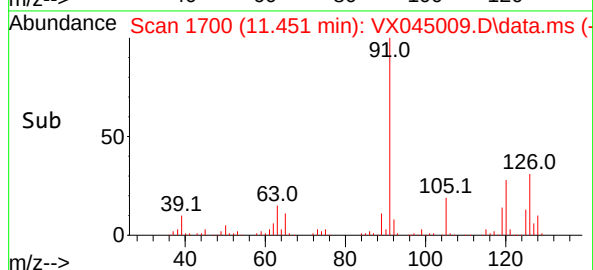
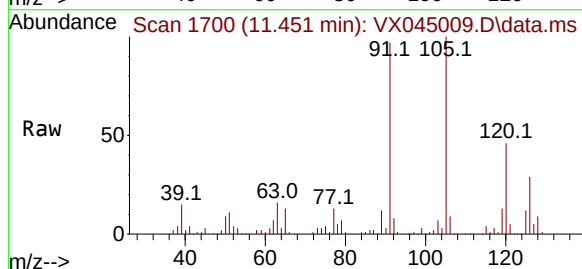
Acq: 21 Feb 2025 10:21

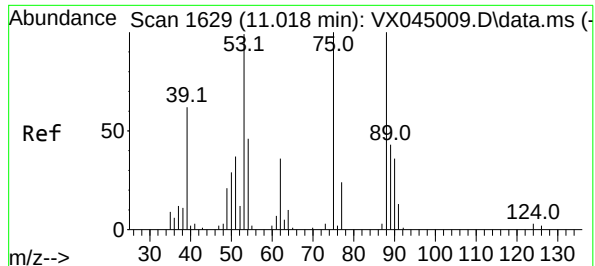
Tgt Ion:105 Resp: 103532

Ion Ratio Lower Upper

105 100

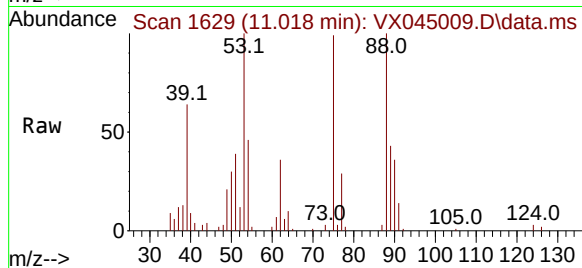
120 47.2 0.0 94.4





#77  
t-1,4-Dichloro-2-butene  
Concen: 17.133 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

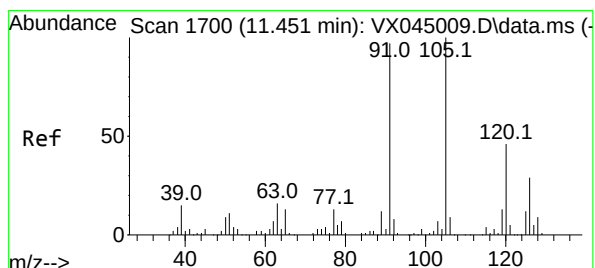
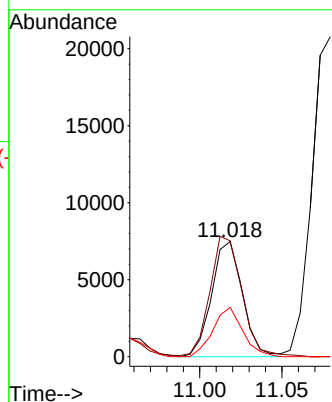
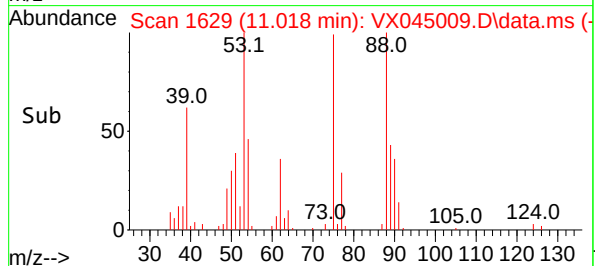
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion: 75 Resp: 9794  
Ion Ratio Lower Upper  
75 100  
53 99.6 49.8 149.4  
89 42.8 21.4 64.2

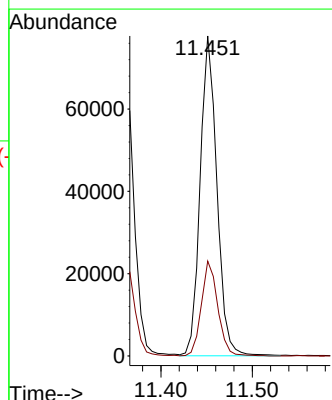
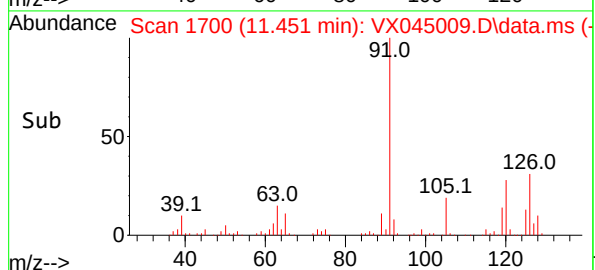
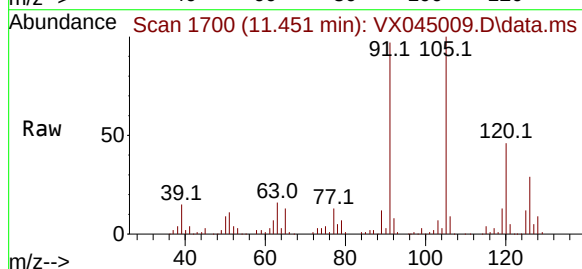
Manual Integrations  
APPROVED

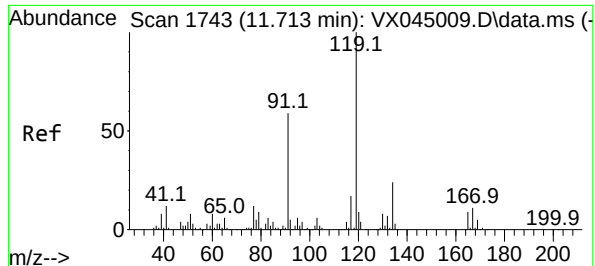
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#78  
4-Chlorotoluene  
Concen: 19.654 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 99015  
Ion Ratio Lower Upper  
91 100  
126 29.0 0.0 58.0





#79

tert-butylbenzene

Concen: 19.965 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 104250

Ion Ratio Lower Upper

119 100

91 60.3 0.0 120.6

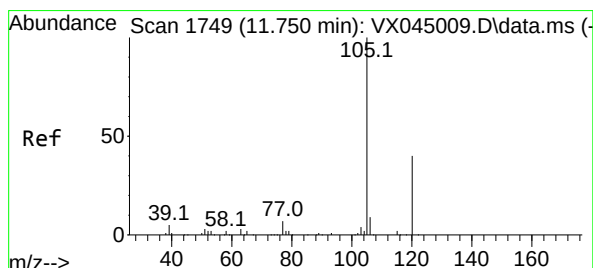
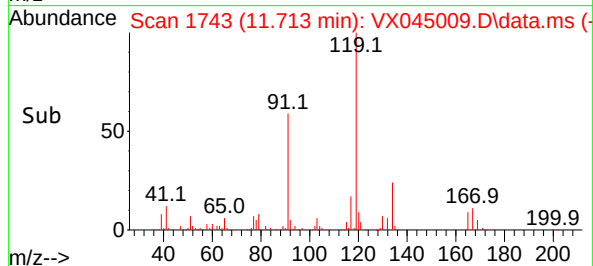
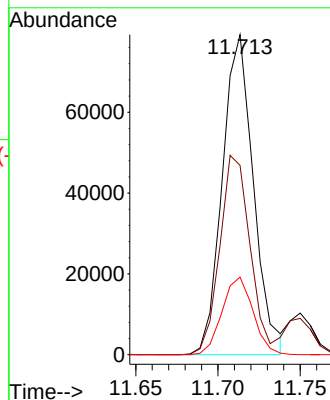
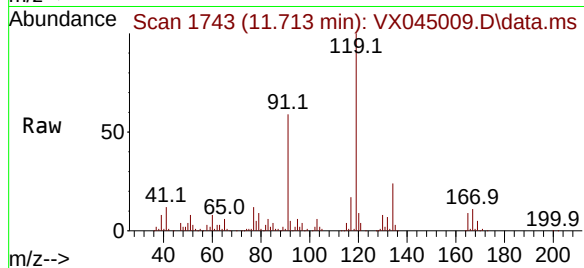
134 24.1 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.108 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX045009.D

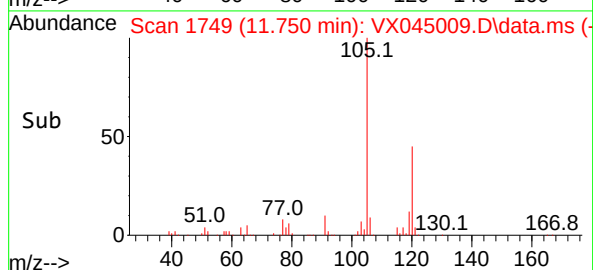
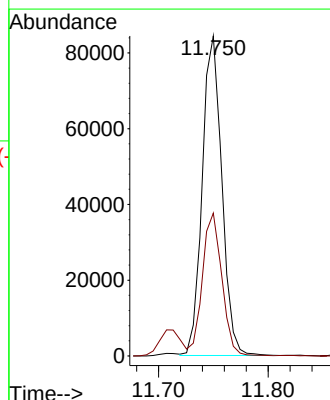
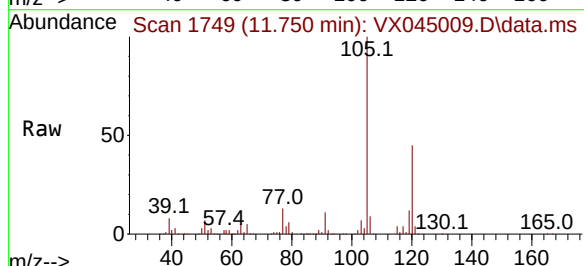
Acq: 21 Feb 2025 10:21

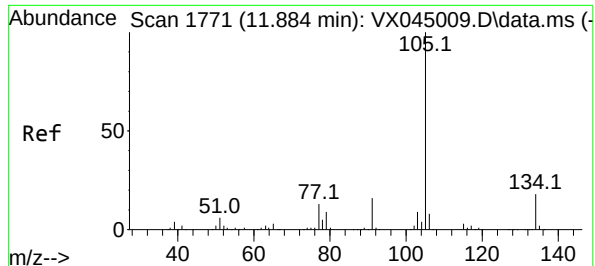
Tgt Ion:105 Resp: 104388

Ion Ratio Lower Upper

105 100

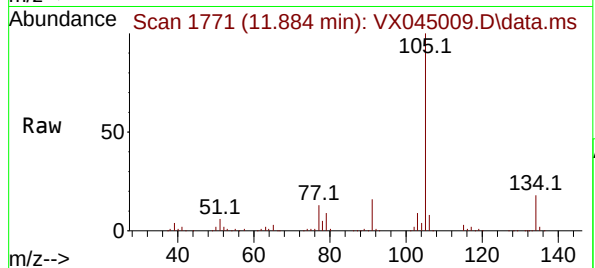
120 44.2 0.0 88.4





#81  
sec-Butylbenzene  
Concen: 19.783 ug/l  
RT: 11.884 min Scan# 1771  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

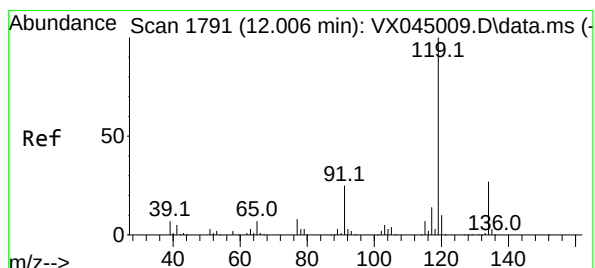
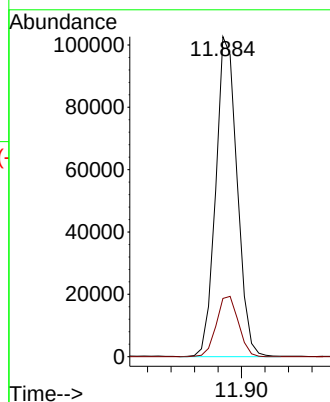
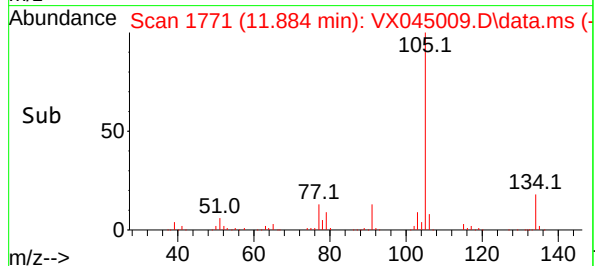
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:105 Resp: 129645  
Ion Ratio Lower Upper  
105 100  
134 19.5 0.0 39.0

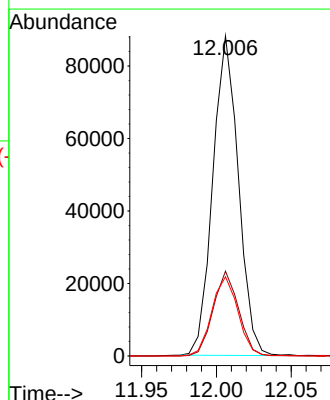
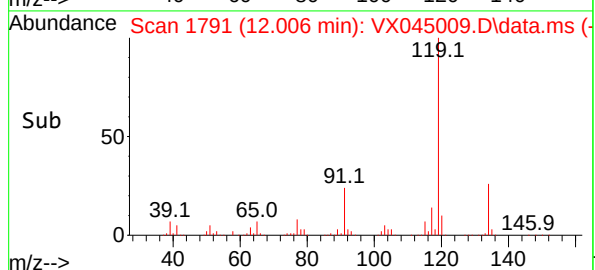
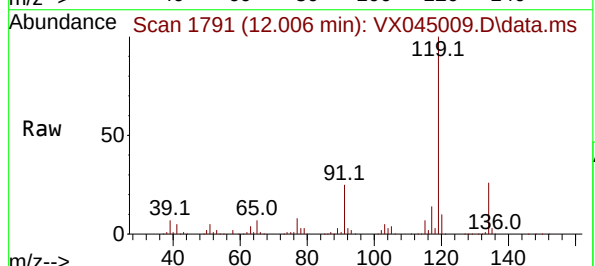
Manual Integrations  
APPROVED

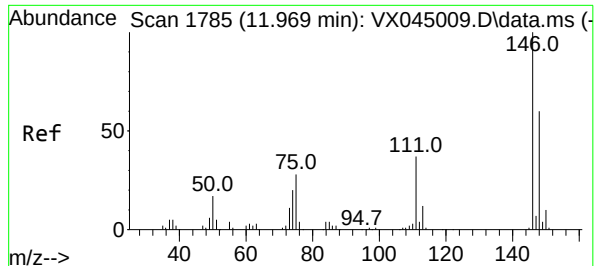
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#82  
p-Isopropyltoluene  
Concen: 19.698 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion:119 Resp: 104594  
Ion Ratio Lower Upper  
119 100  
134 26.3 0.0 52.6  
91 25.5 0.0 51.0





#83

1,3-Dichlorobenzene

Concen: 19.873 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

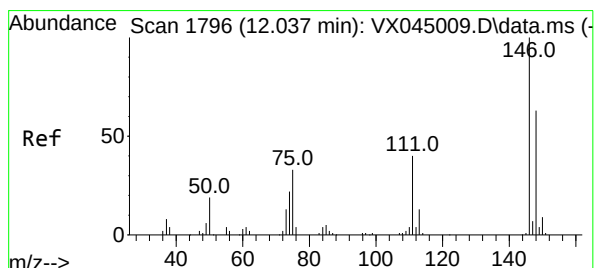
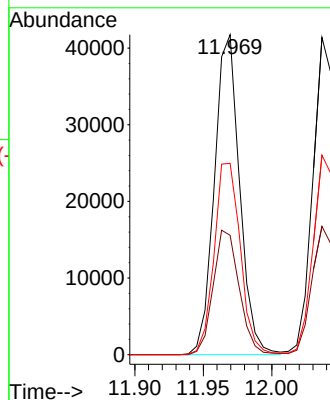
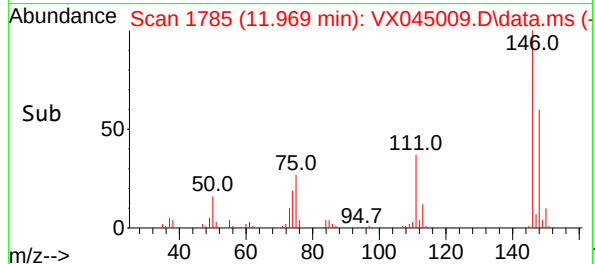
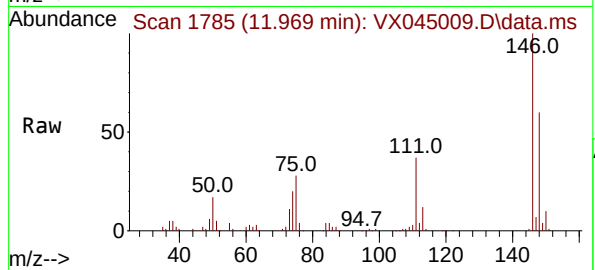
Tgt Ion:146 Resp: 53472  
Ion Ratio Lower Upper  
146 100  
111 40.3 20.2 60.5  
148 62.4 31.2 93.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#84

1,4-Dichlorobenzene

Concen: 19.714 ug/l

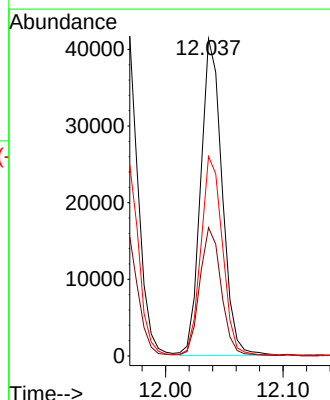
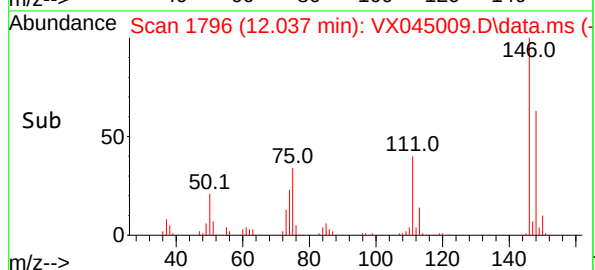
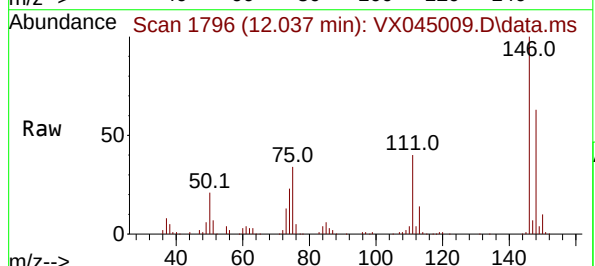
RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

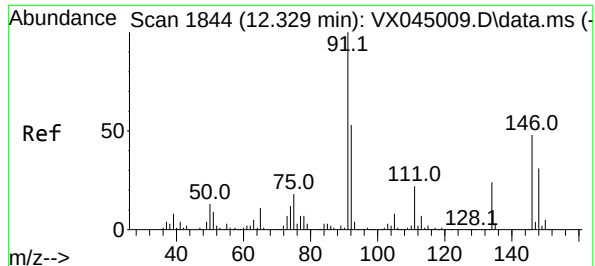
Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Tgt Ion:146 Resp: 52302  
Ion Ratio Lower Upper  
146 100  
111 40.8 20.4 61.2  
148 63.6 31.8 95.4







#85

n-Butylbenzene

Concen: 19.087 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion: 91 Resp: 9255

Ion Ratio Lower Upper

91 100

92 52.6 0.0 105.2

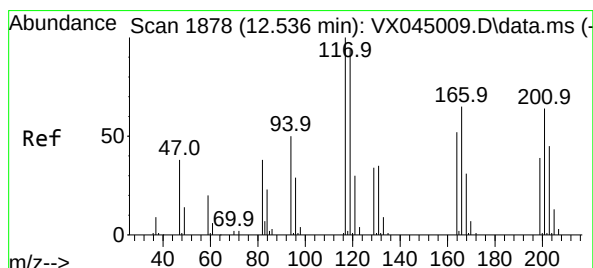
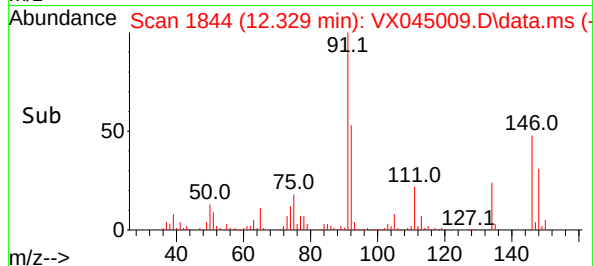
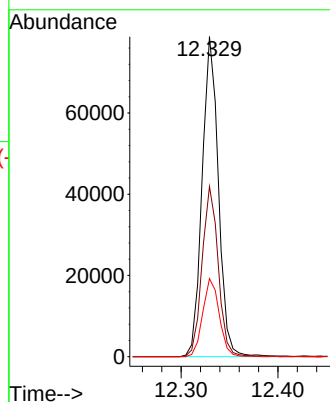
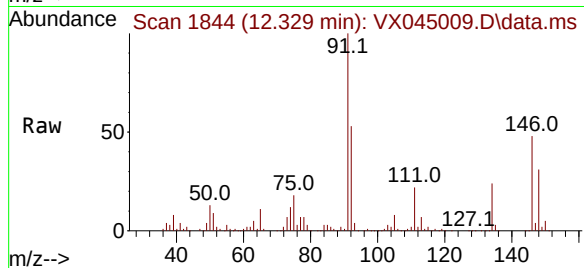
134 24.7 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#86

Hexachloroethane

Concen: 18.410 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045009.D

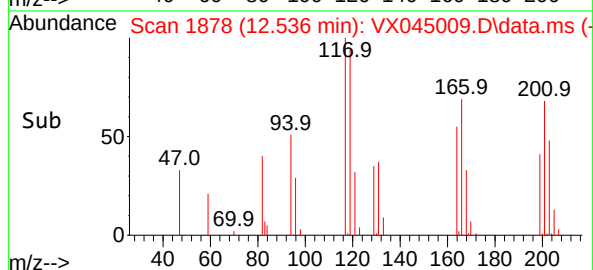
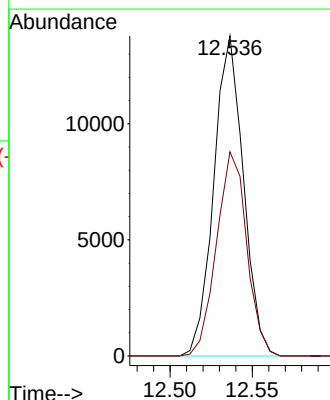
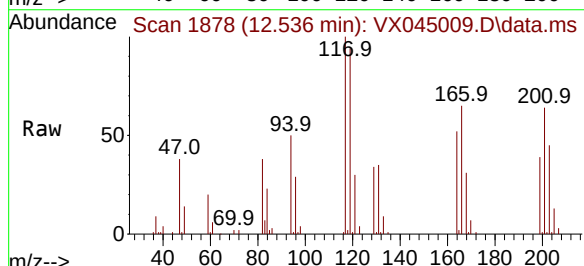
Acq: 21 Feb 2025 10:21

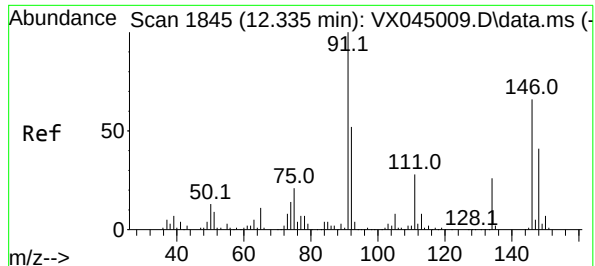
Tgt Ion:117 Resp: 17240

Ion Ratio Lower Upper

117 100

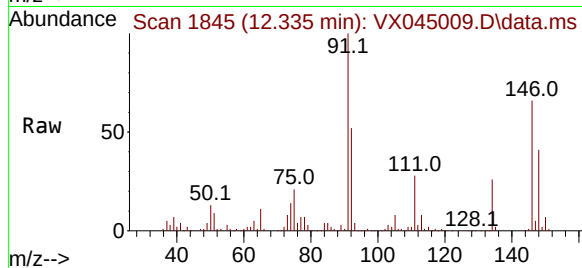
201 65.1 32.6 97.7





#87  
1,2-Dichlorobenzene  
Concen: 20.126 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

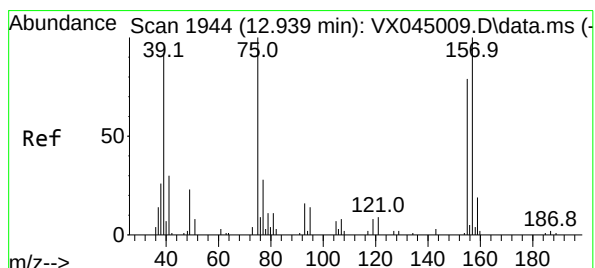
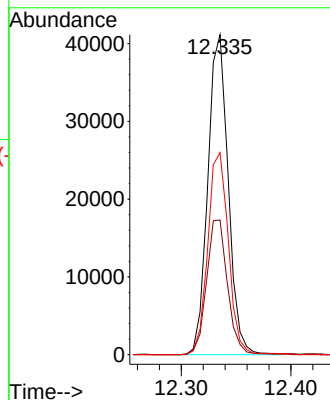
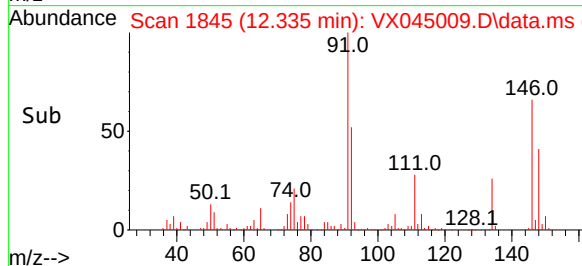
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:146 Resp: 53134  
Ion Ratio Lower Upper  
146 100  
111 43.4 21.7 65.1  
148 63.6 31.8 95.4

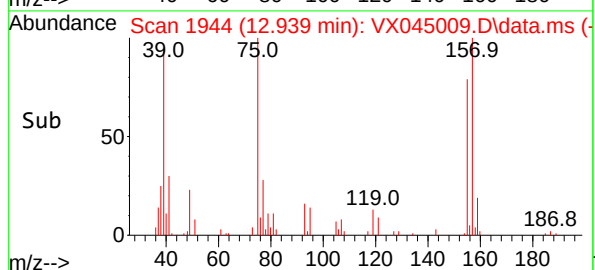
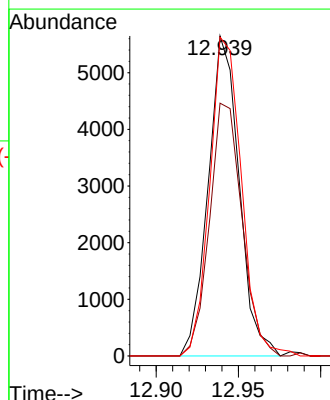
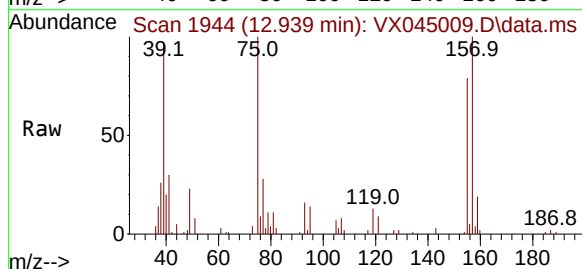
Manual Integrations  
APPROVED

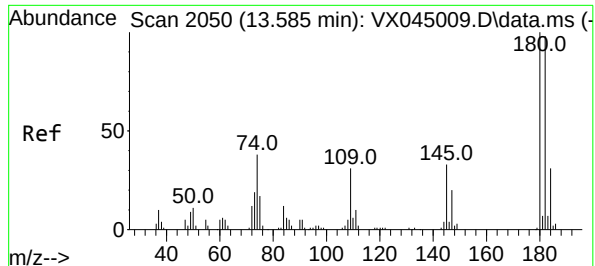
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 18.485 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 7393  
Ion Ratio Lower Upper  
75 100  
155 82.8 66.2 99.4  
157 101.8 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 18.760 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICCC020

Tgt Ion:180 Resp: 30018

Ion Ratio Lower Upper

180 100

182 97.1 77.7 116.5

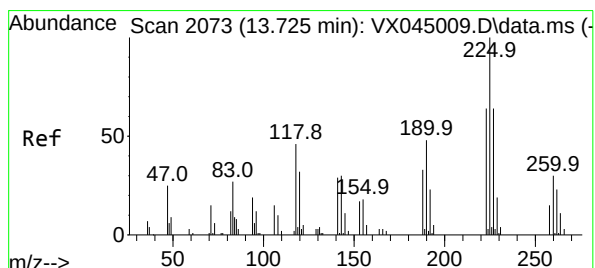
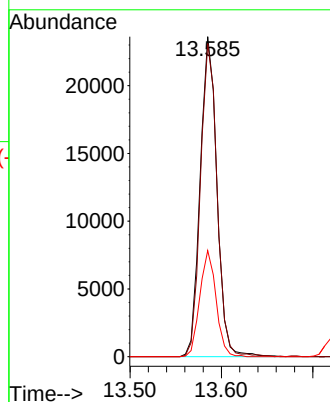
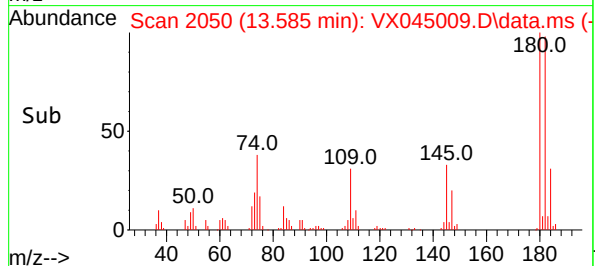
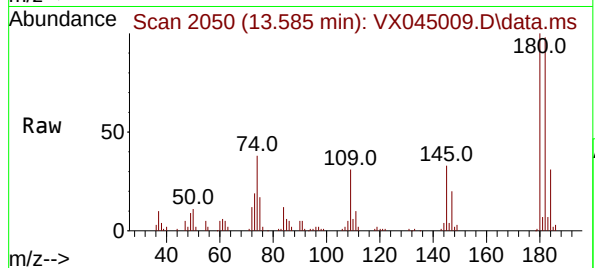
145 32.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#90

Hexachlorobutadiene

Concen: 19.649 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX045009.D

Acq: 21 Feb 2025 10:21

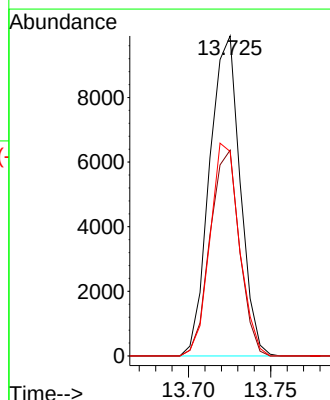
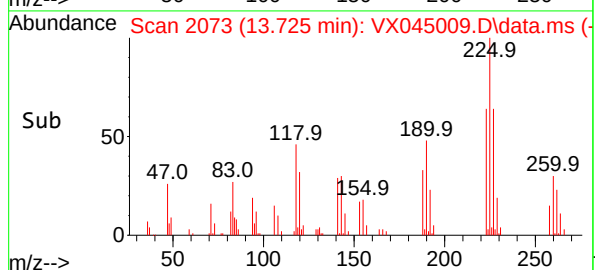
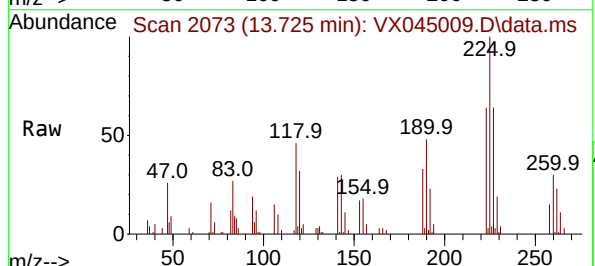
Tgt Ion:225 Resp: 12822

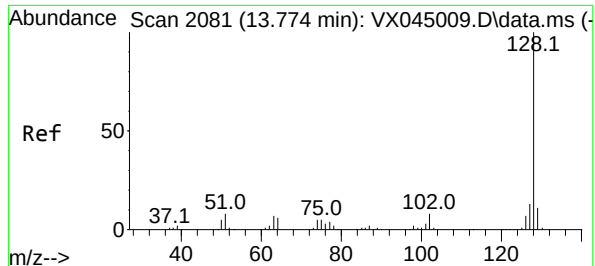
Ion Ratio Lower Upper

225 100

223 61.7 0.0 123.4

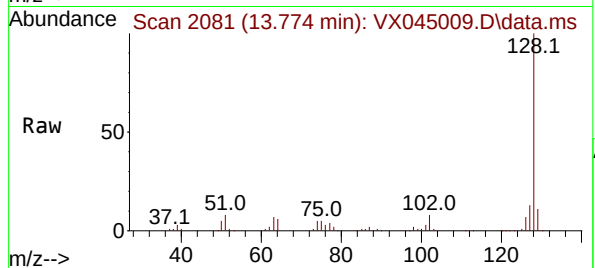
227 63.7 0.0 127.4





#91  
Naphthalene  
Concen: 19.291 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

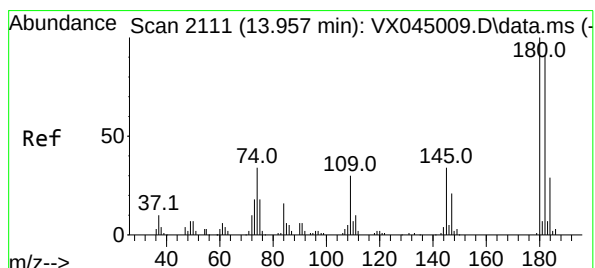
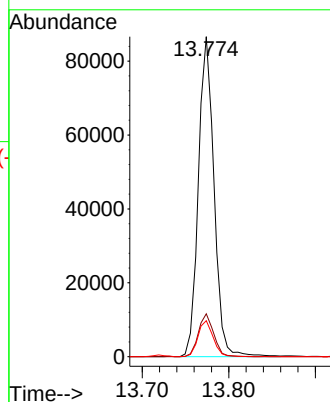
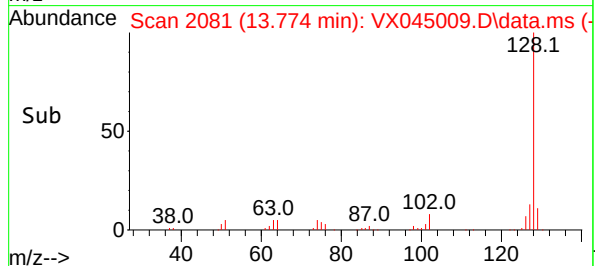
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICCC020



Tgt Ion:128 Resp: 108844  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.9 8.7 13.1

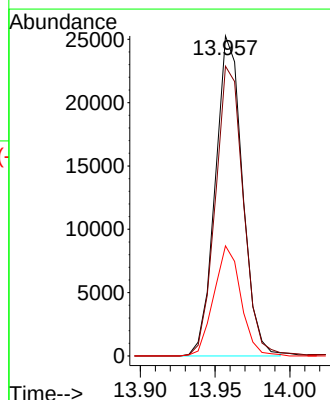
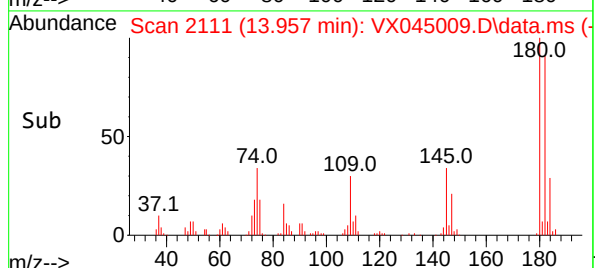
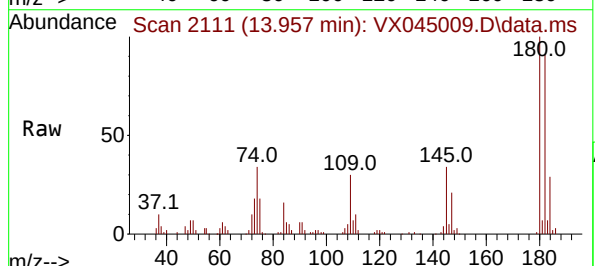
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 19.437 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX045009.D  
Acq: 21 Feb 2025 10:21

Tgt Ion:180 Resp: 32019  
Ion Ratio Lower Upper  
180 100  
182 93.3 0.0 186.6  
145 34.2 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045010.D  
 Acq On : 21 Feb 2025 10:44  
 Operator : JC/MD  
 Sample : VSTDICC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.891          | 128  | 17467      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757          | 114  | 96411      | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 89300      | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 49656      | 29.270   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 97.567%  |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 50413      | 30.203   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 100.667% |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 147315     | 29.819   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 99.400%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 74849      | 50.833   | ug/l   | 98       |
| 3) Chloromethane             | 1.294          | 50   | 90776      | 51.472   | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374          | 62   | 84944      | 49.915   | ug/l   | 100      |
| 5) Bromomethane              | 1.593          | 94   | 28963      | 48.894   | ug/l   | 97       |
| 6) Chloroethane              | 1.672          | 64   | 51012      | 55.346   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 115517     | 50.505   | ug/l   | 95       |
| 8) Diethyl Ether             | 2.130          | 74   | 43032      | 49.726   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 68750      | 50.609   | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 2.312          | 96   | 66962      | 50.466   | ug/l   | 92       |
| 11) Methyl Iodide            | 2.447          | 142  | 81166      | 54.046   | ug/l   | 97       |
| 12) Methyl Acetate           | 2.697          | 43   | 78286      | 50.808   | ug/l   | 100      |
| 13) Acrolein                 | 2.233          | 56   | 76736      | 248.462  | ug/l   | 98       |
| 14) Acrylonitrile            | 3.056          | 53   | 196184     | 260.667  | ug/l   | 99       |
| 15) Acetone                  | 2.373          | 58   | 51483      | 249.418  | ug/l   | 95       |
| 16) Carbon Disulfide         | 2.508          | 76   | 188973     | 50.210   | ug/l   | 100      |
| 17) Allyl chloride           | 2.660          | 41   | 125778     | 50.682   | ug/l   | 98       |
| 18) Methylene Chloride       | 2.782          | 84   | 76235      | 51.081   | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 3.087          | 96   | 68253      | 50.843   | ug/l   | 94       |
| 20) Diisopropyl ether        | 3.751          | 45   | 243734     | 51.107   | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 3.599          | 63   | 131223     | 49.475   | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 4.477          | 96   | 79440      | 49.382   | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 2.959          | 59   | 69182      | 262.986  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 218792     | 50.521   | ug/l   | 99       |
| 25) Chloroform               | 5.086          | 83   | 128252     | 50.062   | ug/l   | 99       |
| 26) Cyclohexane              | 5.458          | 56   | 124373     | 50.802   | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 5.684          | 75   | 90516      | 51.038   | ug/l   | 99       |
| 30) 2-Butanone               | 4.544          | 43   | 267770     | 261.401  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 101966     | 50.846   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 110282     | 51.322   | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.672          | 117  | 92530      | 51.023   | ug/l   | 99       |
| 34) Benzene                  | 6.031          | 78   | 286826     | 51.573   | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.910          | 41   | 59021      | 53.843   | ug/l   | 98       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 96405      | 50.630   | ug/l   | 98       |
| 37) Trichloroethene          | 7.116          | 130  | 66131      | 50.826   | ug/l   | 95       |
| 38) Methylcyclohexane        | 7.373          | 83   | 122650     | 51.506   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.421          | 63   | 68553      | 49.579   | ug/l   | 97       |
| 40) Dibromomethane           | 7.574          | 93   | 50034      | 50.426   | ug/l   | 99       |
| 41) Bromodichloromethane     | 7.818          | 83   | 100442     | 50.932   | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.715          | 43   | 1047506    | 263.518  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045010.D  
 Acq On : 21 Feb 2025 10:44  
 Operator : JC/MD  
 Sample : VSTDIC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

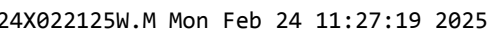
| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 97995    | 51.012   | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.330  | 43   | 165983   | 52.497   | ug/l  | 99       |
| 45) 1,4-Dioxane               | 7.653  | 88   | 36320    | 1105.035 | ug/l  | 98       |
| 46) Methyl methacrylate       | 7.690  | 41   | 82008    | 52.896   | ug/l  | 99       |
| 47) n-amyl Acetate            | 10.841 | 43   | 148104   | 53.981   | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 98986    | 52.075   | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 110953   | 51.564   | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 66444    | 51.339   | ug/l  | 97       |
| 51) Ethyl methacrylate        | 9.110  | 69   | 108669   | 53.387   | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 116358   | 51.310   | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 73437    | 51.304   | ug/l  | 96       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 67926    | 51.685   | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 272372   | 260.575  | ug/l  | 100      |
| 56) Bromoform                 | 10.799 | 173  | 47891    | 53.392   | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.567  | 43   | 543908   | 267.752  | ug/l  | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 398198   | 271.195  | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 54607    | 49.659   | ug/l  | 94       |
| 62) Toluene                   | 8.714  | 91   | 296930   | 50.195   | ug/l  | 100      |
| 64) Chlorobenzene             | 10.073 | 112  | 185159   | 50.511   | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 60773    | 50.244   | ug/l  | 99       |
| 66) Ethyl Benzene             | 10.189 | 91   | 330414   | 51.018   | ug/l  | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 244916   | 101.498  | ug/l  | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 120934   | 51.080   | ug/l  | 100      |
| 69) Styrene                   | 10.652 | 104  | 202875   | 51.306   | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.957 | 105  | 310911   | 50.888   | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 104665   | 52.096   | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 86752m   | 52.499   | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 72207    | 51.338   | ug/l  | 99       |
| 74) n-propylbenzene           | 11.299 | 91   | 377855   | 51.970   | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 223666   | 50.885   | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.445 | 105  | 260432   | 51.669   | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.012 | 75   | 29634    | 53.302   | ug/l  | 95       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 250953   | 51.217   | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 264815   | 52.144   | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 263122   | 52.114   | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.884 | 105  | 328940   | 51.608   | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 269490   | 52.183   | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene       | 11.963 | 146  | 134685   | 51.467   | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 135436   | 52.490   | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 249242   | 52.851   | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 47866    | 52.555   | ug/l  | 98       |
| 87) 1,2-Dichlorobenzene       | 12.329 | 146  | 133123   | 51.846   | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 19763    | 50.807   | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 80472    | 51.710   | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 31734    | 50.003   | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 288823   | 52.634   | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 81734    | 51.015   | ug/l  | 99       |

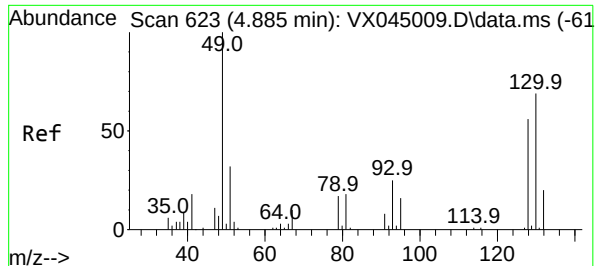
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**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC050

## Manual Integrations APPROVED

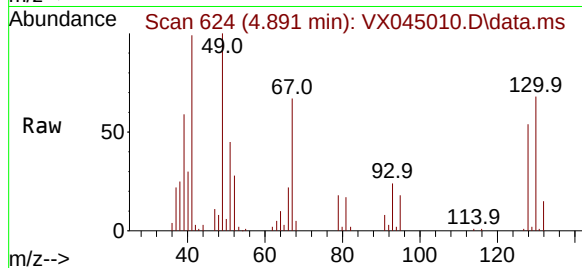
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.891 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

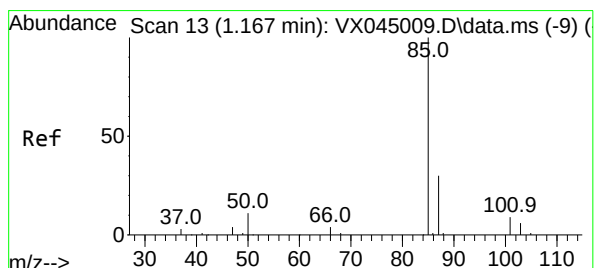
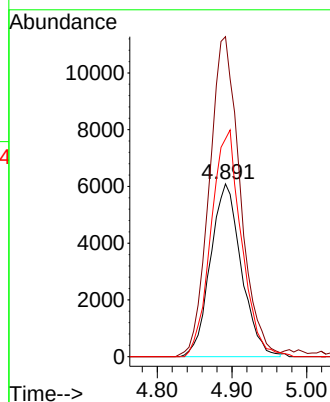
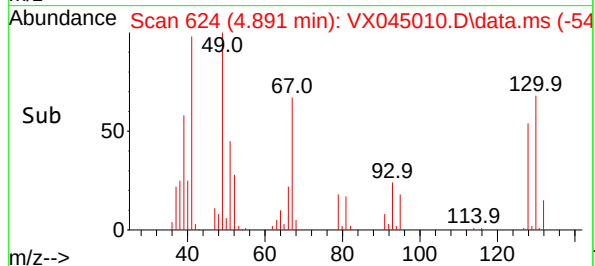
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050



Tgt Ion:128 Resp: 1746  
Ion Ratio Lower Upper  
128 100  
49 185.3 0.0 449.7  
130 129.3 0.0 312.7

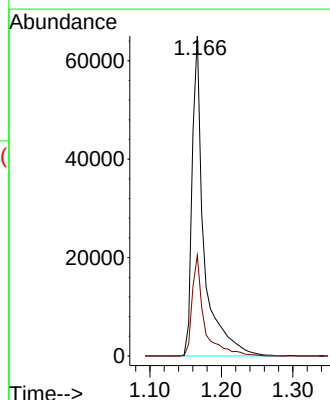
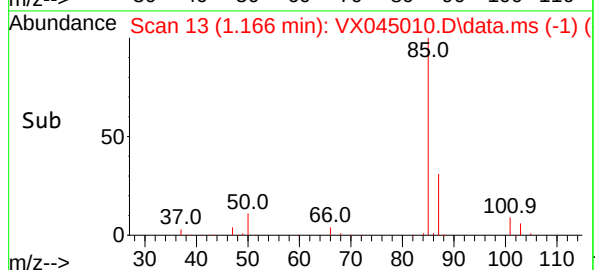
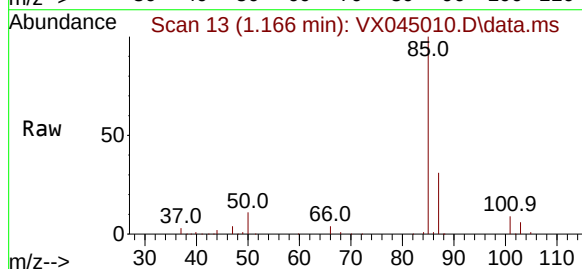
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

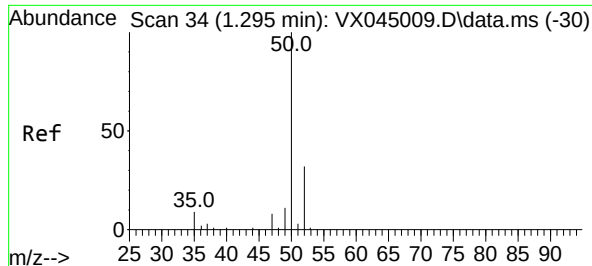


#2  
Dichlorodifluoromethane  
Concen: 50.833 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 85 Resp: 74849  
Ion Ratio Lower Upper  
85 100  
87 31.5 15.1 45.3







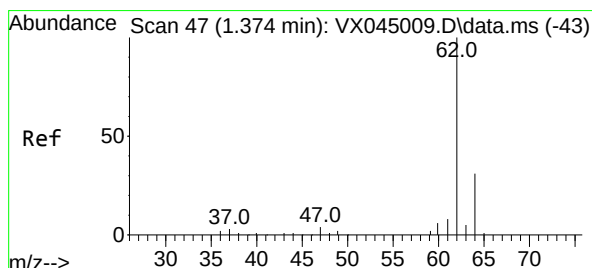
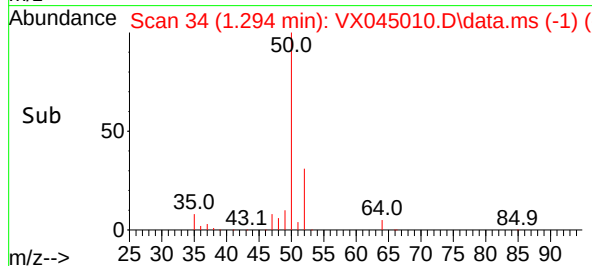
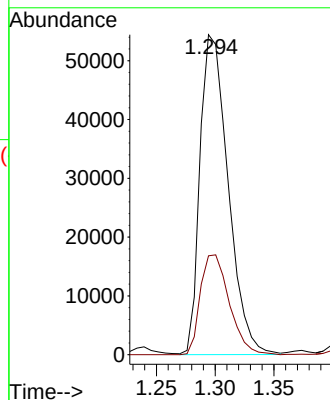
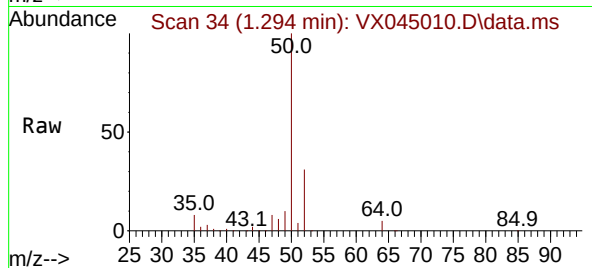
#3  
Chloromethane  
Concen: 51.472 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050

Tgt Ion: 50 Resp: 90776  
Ion Ratio Lower Upper  
50 100  
52 31.0 25.7 38.5

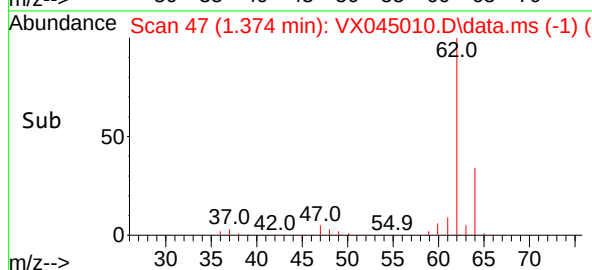
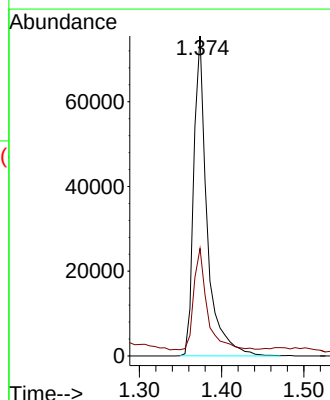
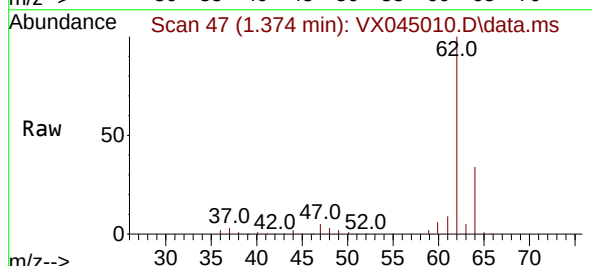
Manual Integrations  
APPROVED

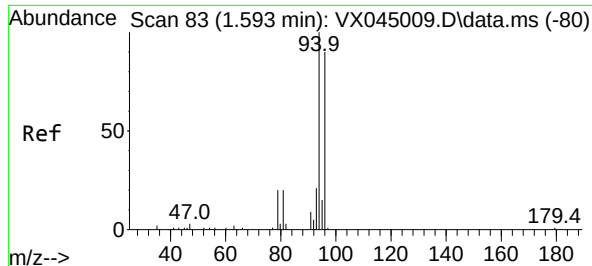
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#4  
Vinyl Chloride  
Concen: 49.915 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 62 Resp: 84944  
Ion Ratio Lower Upper  
62 100  
64 31.7 25.1 37.7





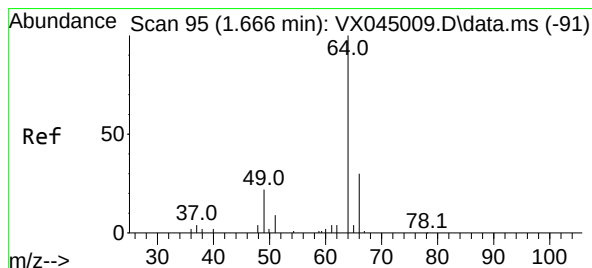
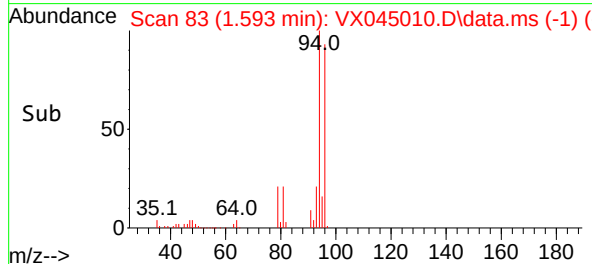
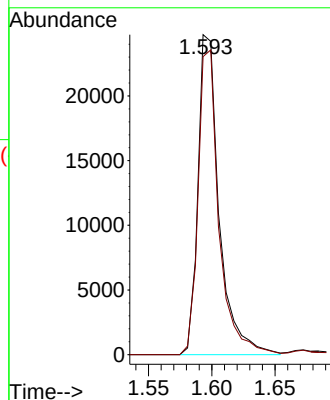
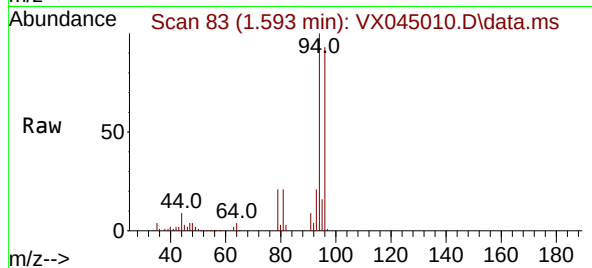
#5  
Bromomethane  
Concen: 48.894 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Tgt Ion: 94 Resp: 2896  
Ion Ratio Lower Upper  
94 100  
96 93.1 72.2 108.4

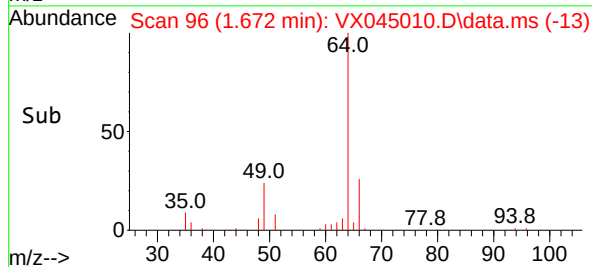
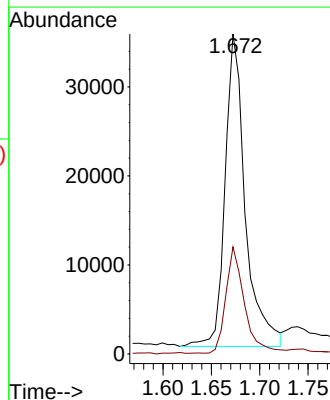
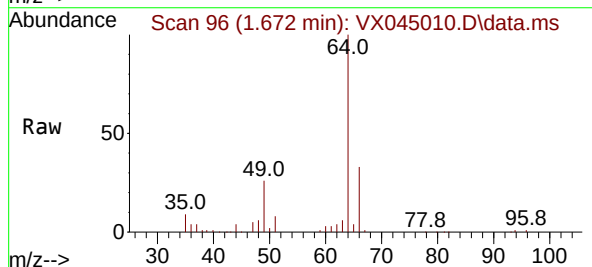
Manual Integrations  
APPROVED

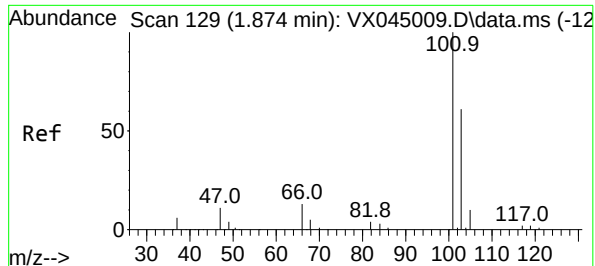
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#6  
Chloroethane  
Concen: 55.346 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 64 Resp: 51012  
Ion Ratio Lower Upper  
64 100  
66 33.8 23.7 35.5





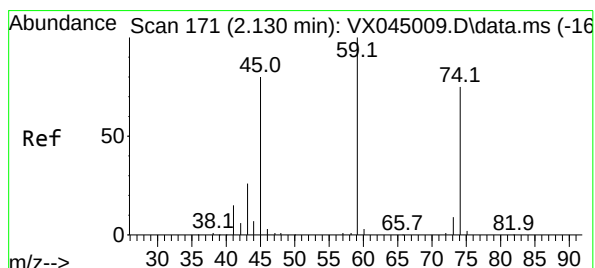
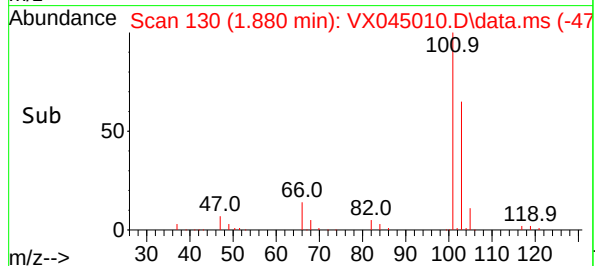
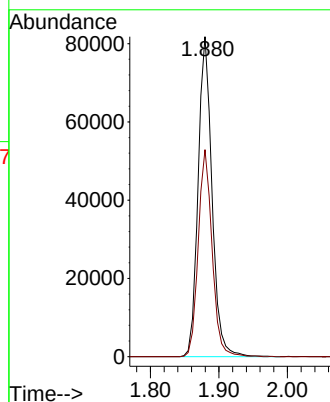
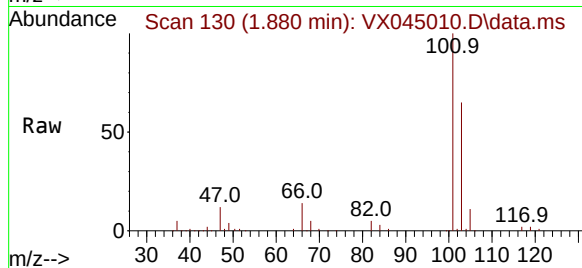
#7  
Trichlorofluoromethane  
Concen: 50.505 ug/l  
RT: 1.880 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Tgt Ion:101 Resp: 11551  
Ion Ratio Lower Upper  
101 100  
103 64.7 48.8 73.2

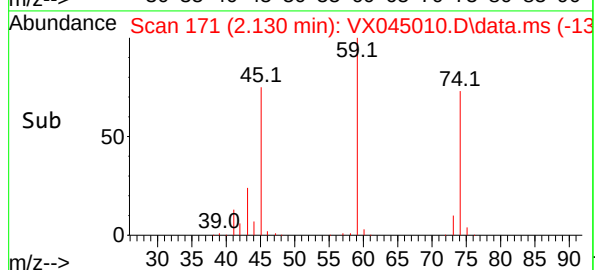
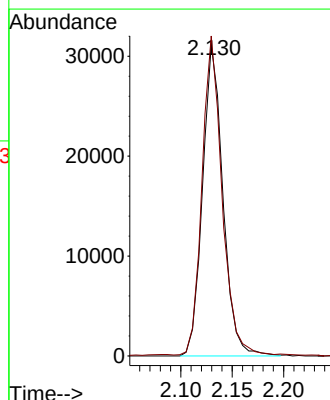
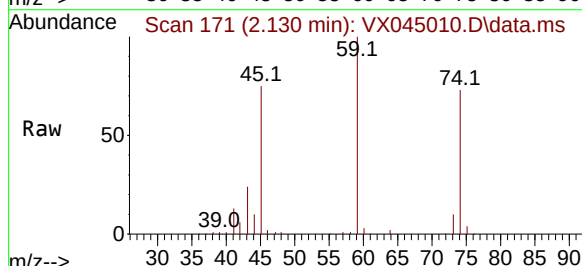
Manual Integrations  
APPROVED

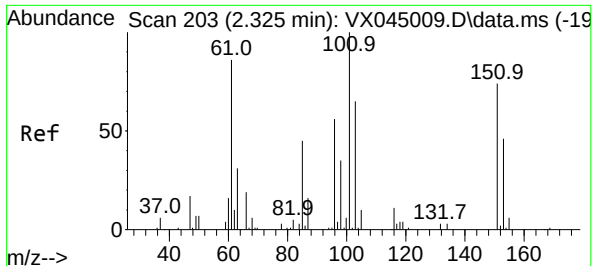
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#8  
Diethyl Ether  
Concen: 49.726 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 74 Resp: 43032  
Ion Ratio Lower Upper  
74 100  
45 101.2 20.8 186.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.609 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion:101 Resp: 68750

Ion Ratio Lower Upper

101 100

85 45.0 0.0 90.6

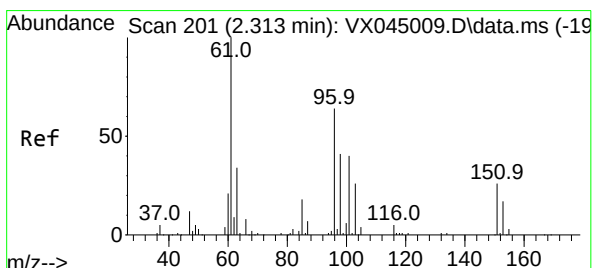
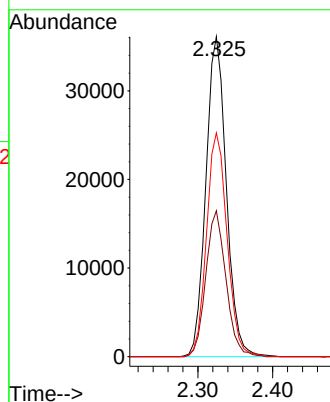
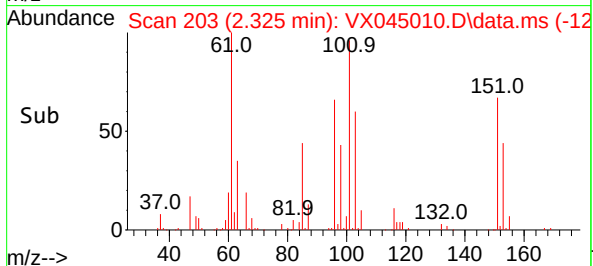
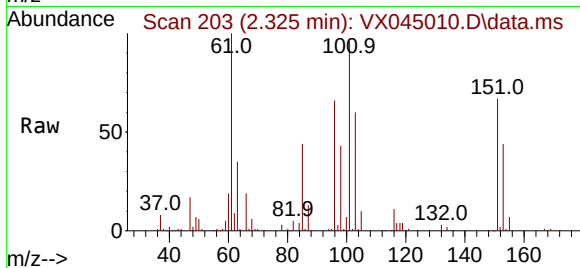
151 70.2 0.0 147.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#10

1,1-Dichloroethene

Concen: 50.466 ug/l

RT: 2.312 min Scan# 201

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

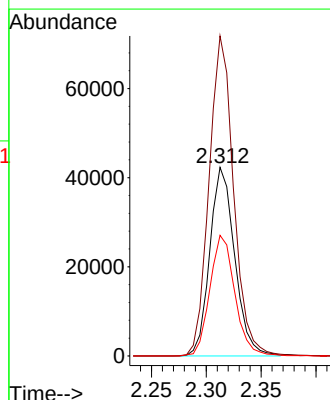
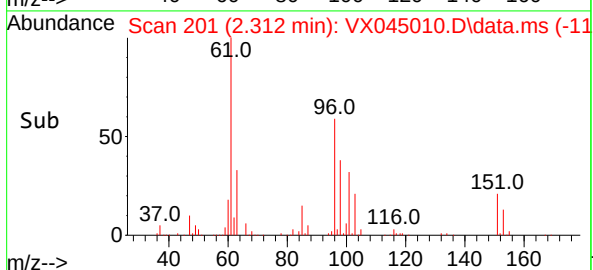
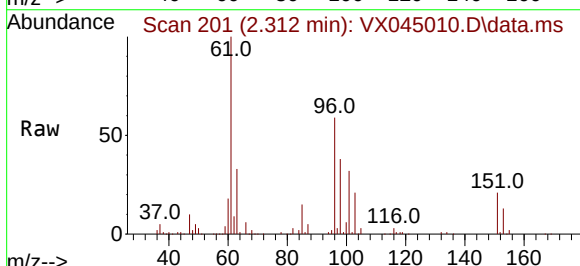
Tgt Ion: 96 Resp: 66962

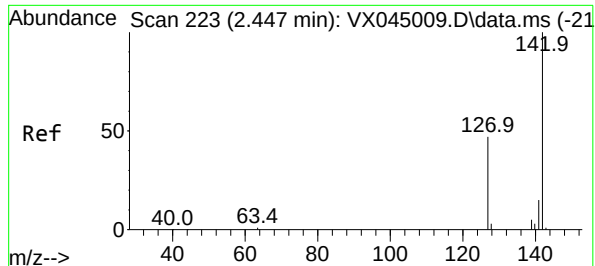
Ion Ratio Lower Upper

96 100

61 169.5 124.2 186.2

98 64.0 51.1 76.7





#11

Methyl Iodide

Concen: 54.046 ug/l

RT: 2.447 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion:142 Resp: 8116

Ion Ratio Lower Upper

142 100

127 44.6 23.3 69.9

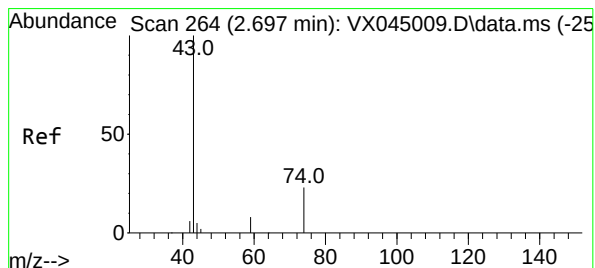
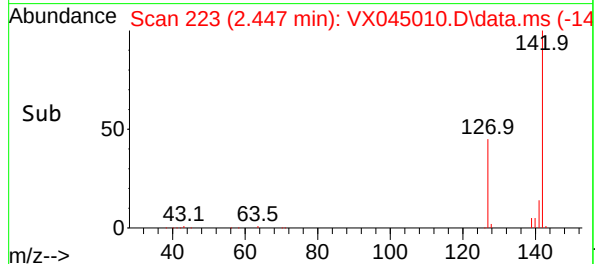
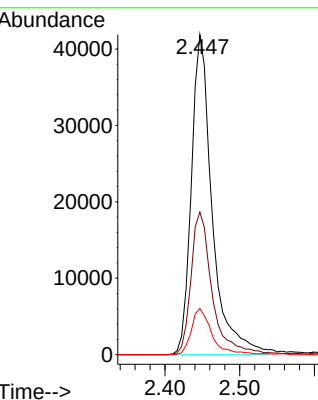
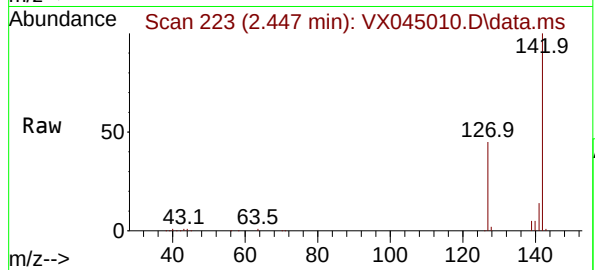
141 14.4 7.5 22.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#12

Methyl Acetate

Concen: 50.808 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX045010.D

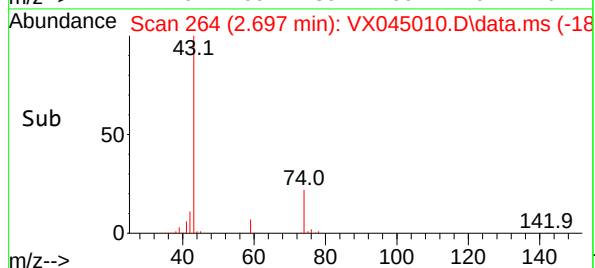
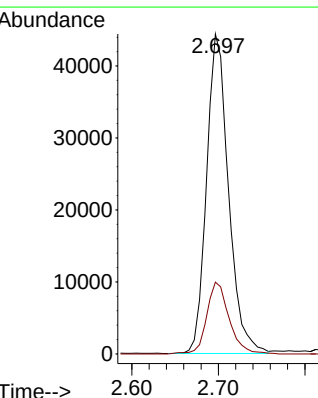
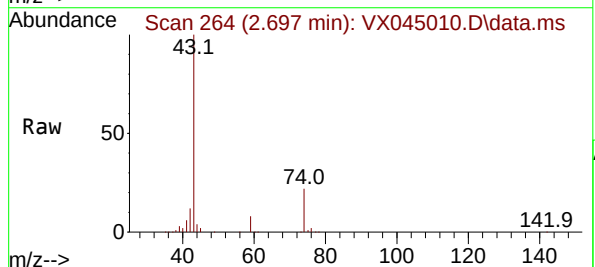
Acq: 21 Feb 2025 10:44

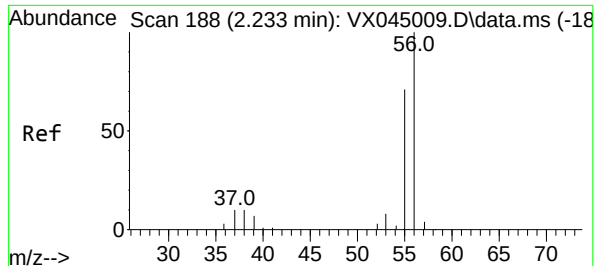
Tgt Ion: 43 Resp: 78286

Ion Ratio Lower Upper

43 100

74 22.4 17.9 26.9





#13

Acrolein

Concen: 248.462 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 56 Resp: 76730

Ion Ratio Lower Upper

56 100

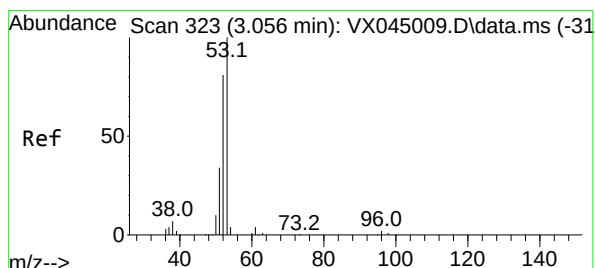
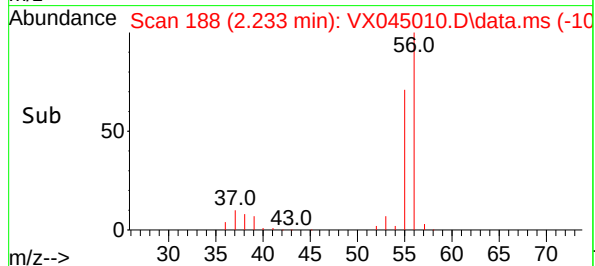
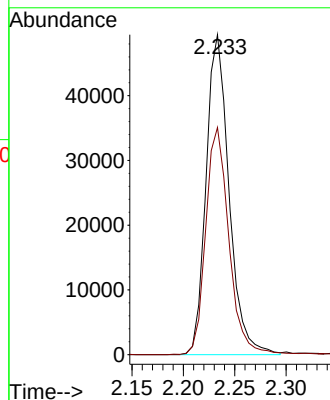
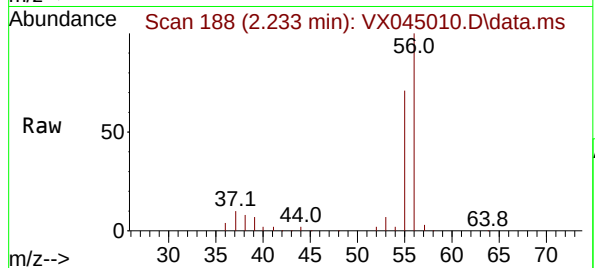
55 71.2 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#14

Acrylonitrile

Concen: 260.667 ug/l

RT: 3.056 min Scan# 323

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

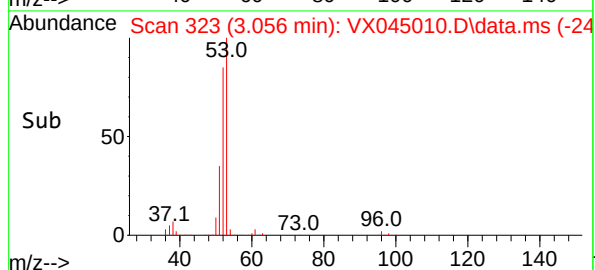
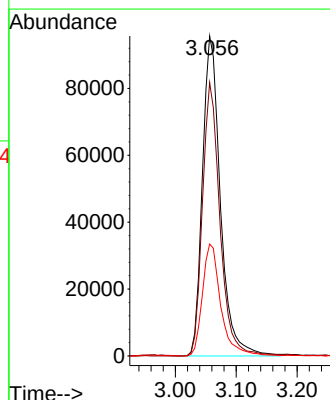
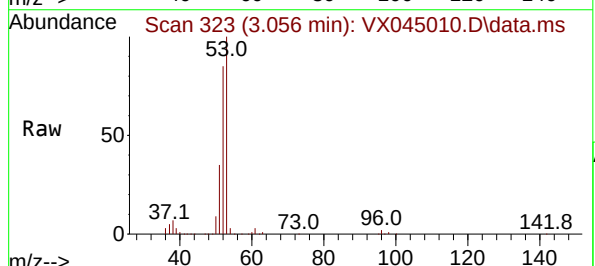
Tgt Ion: 53 Resp: 196184

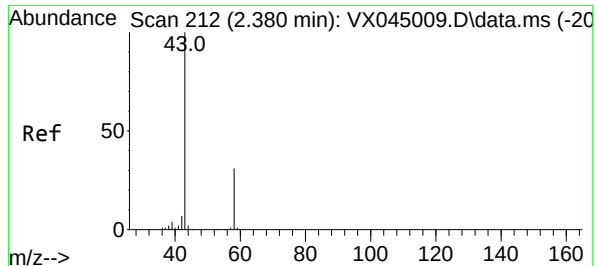
Ion Ratio Lower Upper

53 100

52 83.2 40.9 122.8

51 35.9 18.0 54.0





#15

Acetone

Concen: 249.418 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 58 Resp: 5148

Ion Ratio Lower Upper

58 100

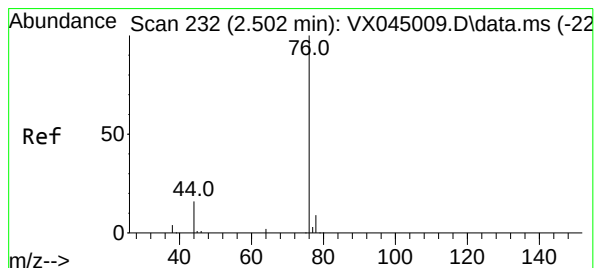
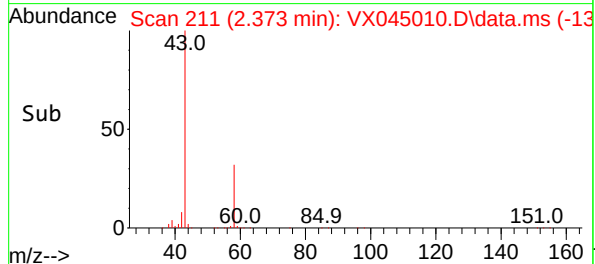
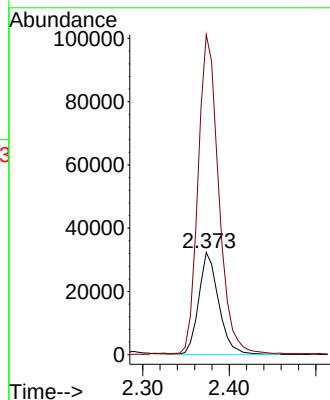
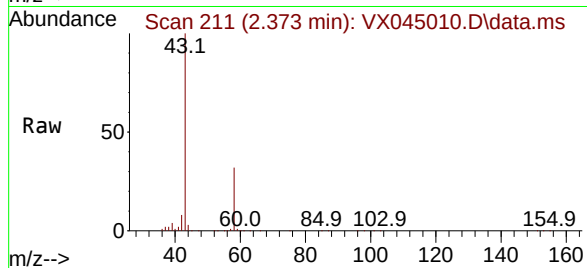
43 312.5 258.6 388.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#16

Carbon Disulfide

Concen: 50.210 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX045010.D

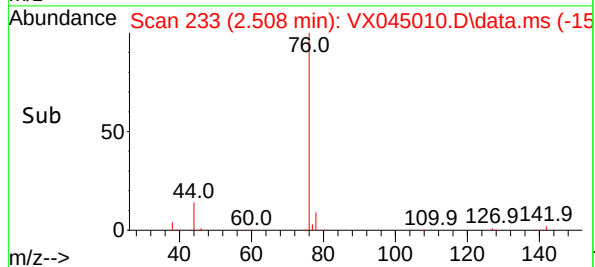
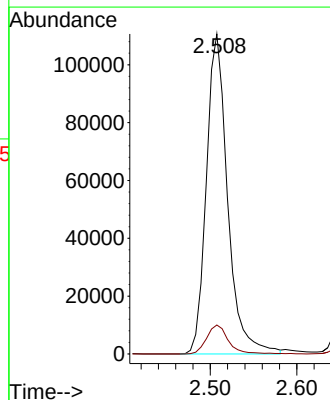
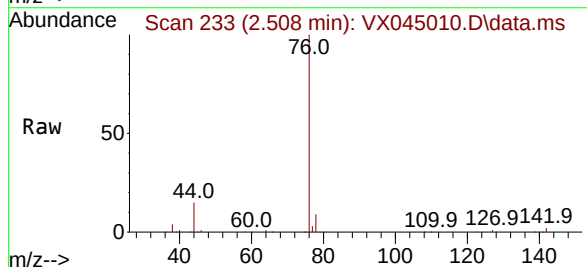
Acq: 21 Feb 2025 10:44

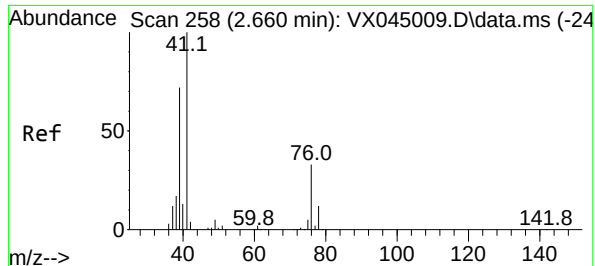
Tgt Ion: 76 Resp: 188973

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#17

Allyl chloride

Concen: 50.682 ug/l

RT: 2.660 min Scan# 258

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 125778

Ion Ratio Lower Upper

41 100

39 72.0 36.2 108.6

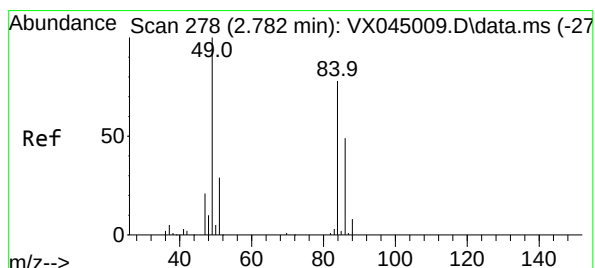
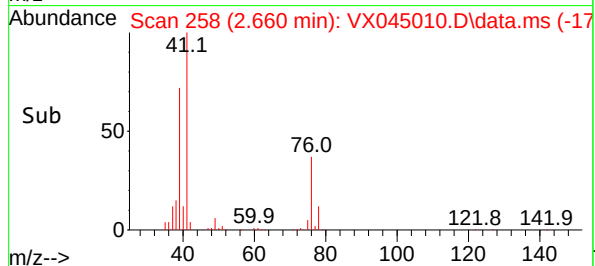
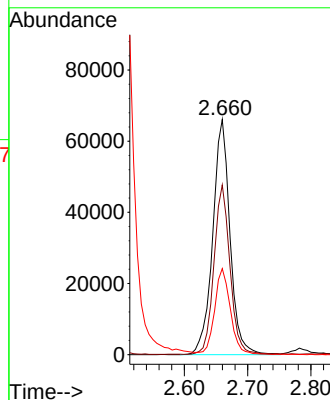
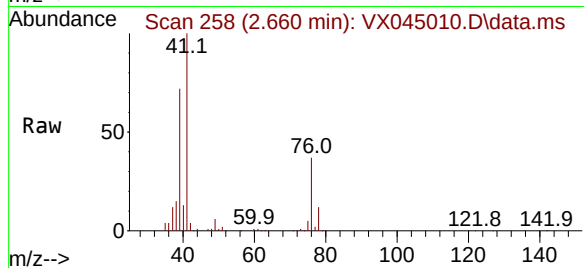
76 36.5 17.2 51.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#18

Methylene Chloride

Concen: 51.081 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Tgt Ion: 84 Resp: 76235

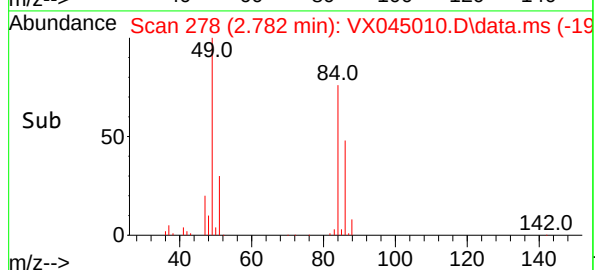
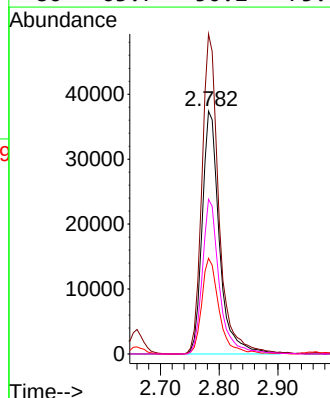
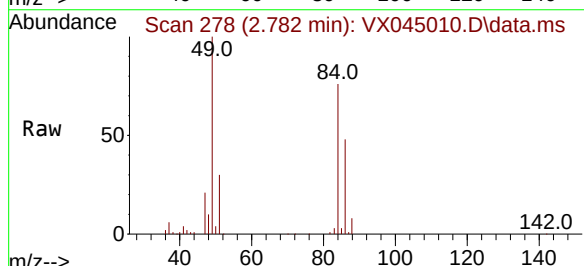
Ion Ratio Lower Upper

84 100

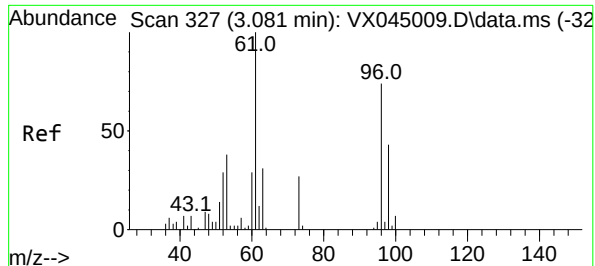
49 131.8 102.8 154.2

51 39.4 30.1 45.1

86 63.7 50.2 75.4







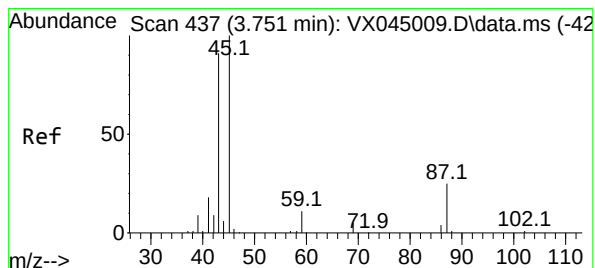
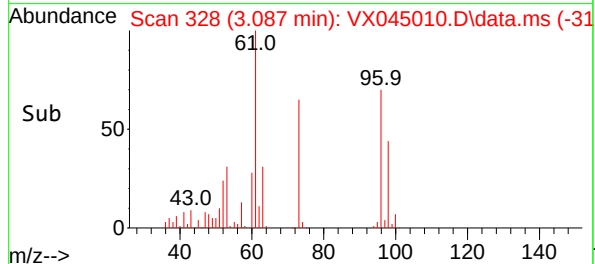
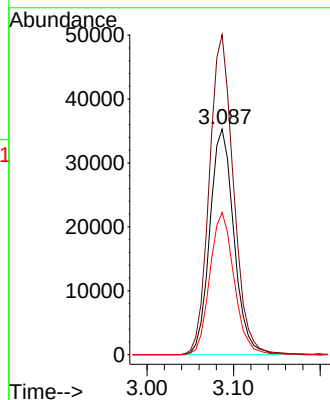
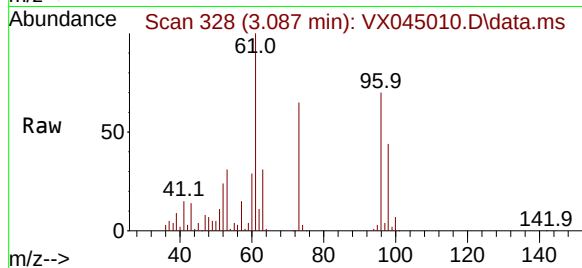
#19  
trans-1,2-Dichloroethene  
Concen: 50.843 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Tgt Ion: 96 Resp: 6825  
Ion Ratio Lower Upper  
96 100  
61 141.9 108.6 163.0  
98 63.1 46.5 69.7

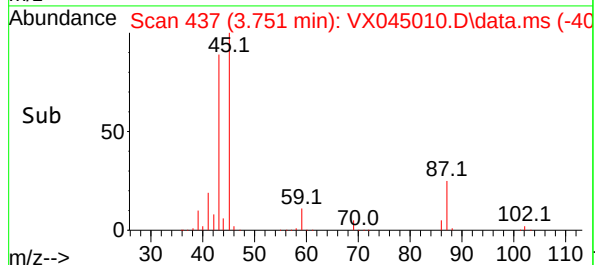
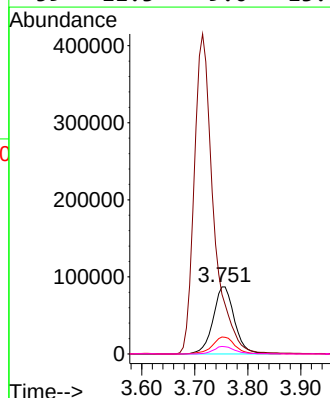
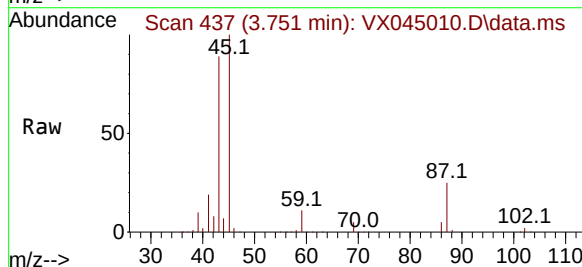
Manual Integrations  
APPROVED

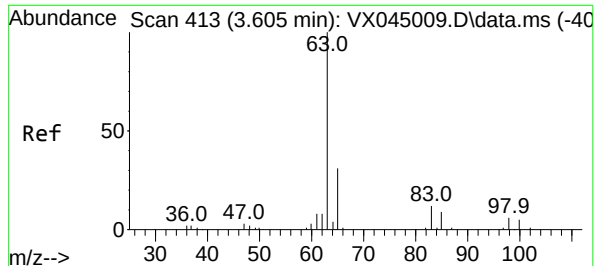
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#20  
Diisopropyl ether  
Concen: 51.107 ug/l  
RT: 3.751 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 45 Resp: 243734  
Ion Ratio Lower Upper  
45 100  
43 87.9 74.4 111.6  
87 25.2 19.8 29.8  
59 11.3 9.0 13.4





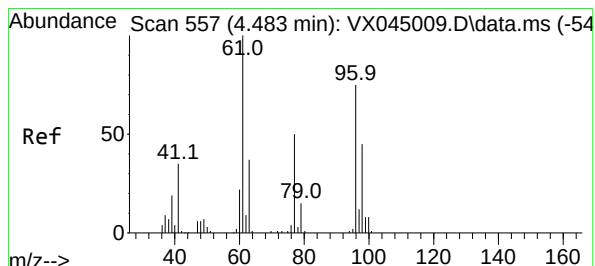
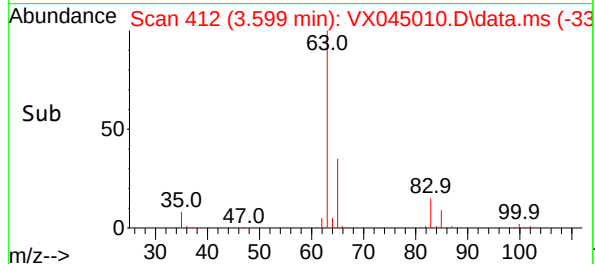
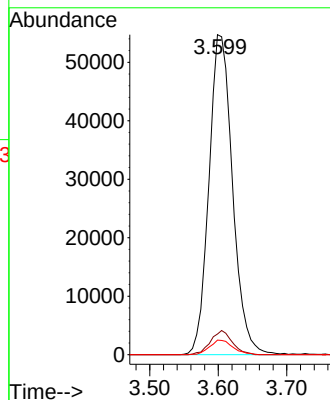
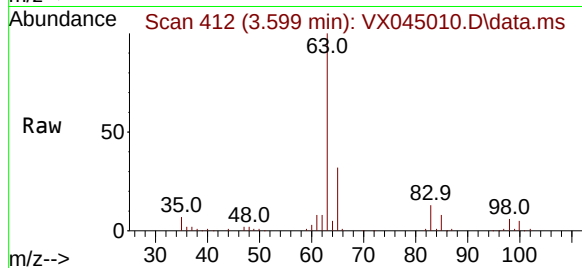
#21  
1,1-Dichloroethane  
Concen: 49.475 ug/l  
RT: 3.599 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Tgt Ion: 63 Resp: 13122  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.3 9.8  
100 4.6 2.4 7.1

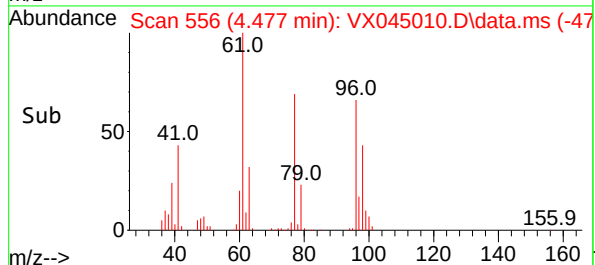
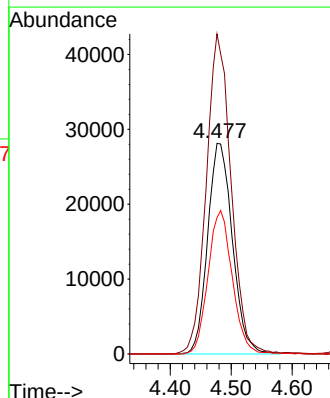
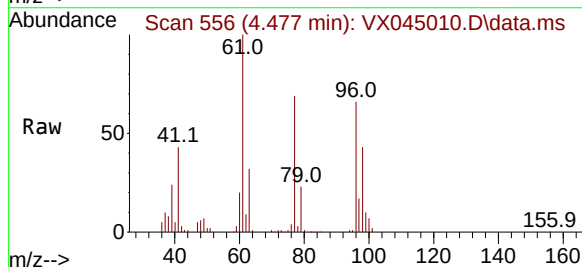
Manual Integrations  
APPROVED

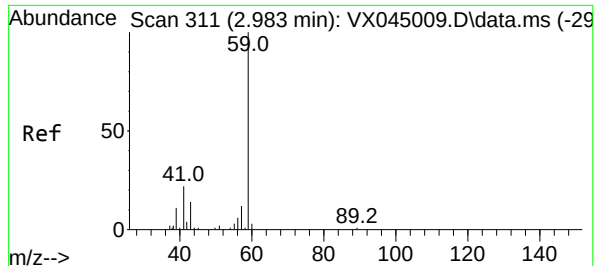
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#22  
cis-1,2-Dichloroethene  
Concen: 49.382 ug/l  
RT: 4.477 min Scan# 556  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 96 Resp: 79440  
Ion Ratio Lower Upper  
96 100  
61 151.9 118.9 178.3  
98 66.2 50.7 76.1





#23

tert-Butyl Alcohol

Concen: 262.986 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.025 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 59 Resp: 6918

Ion Ratio Lower Upper

59 100

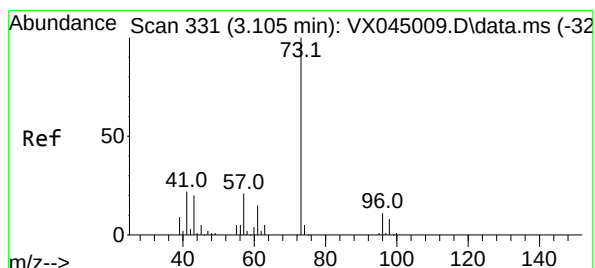
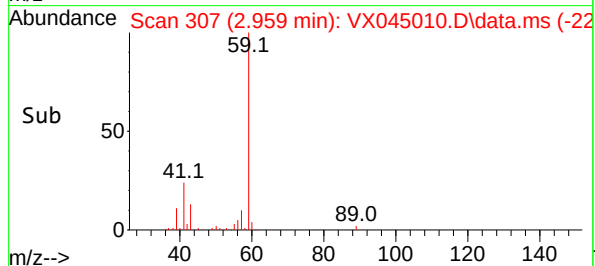
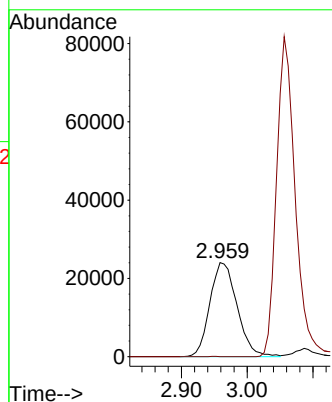
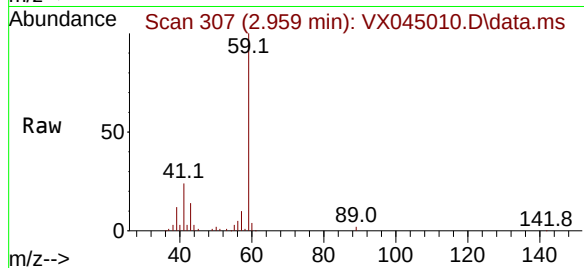
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#24

Methyl tert-Butyl Ether

Concen: 50.521 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.006 min

Lab File: VX045010.D

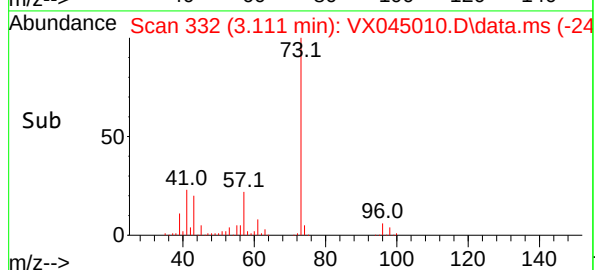
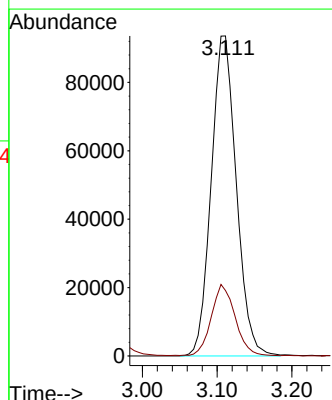
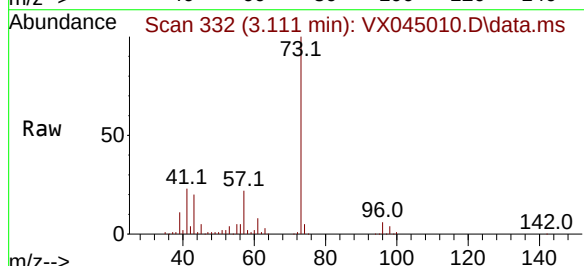
Acq: 21 Feb 2025 10:44

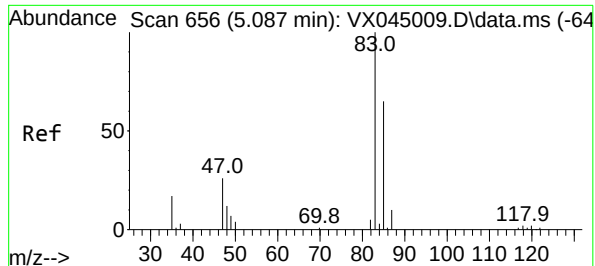
Tgt Ion: 73 Resp: 218792

Ion Ratio Lower Upper

73 100

43 21.3 17.4 26.0





#25

Chloroform

Concen: 50.062 ug/l

RT: 5.086 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 128252

Ion Ratio Lower Upper

83 100

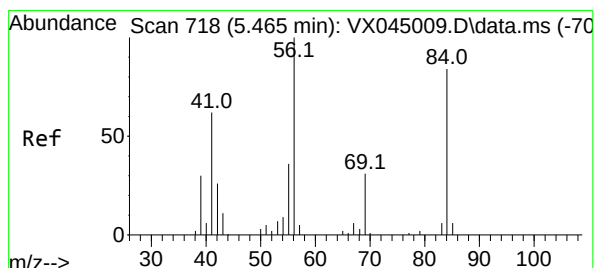
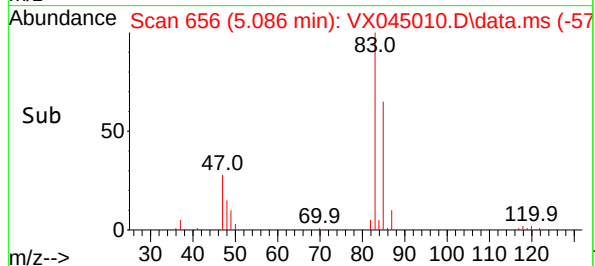
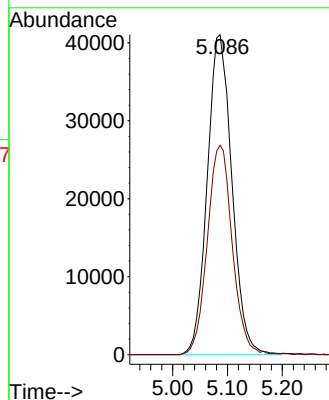
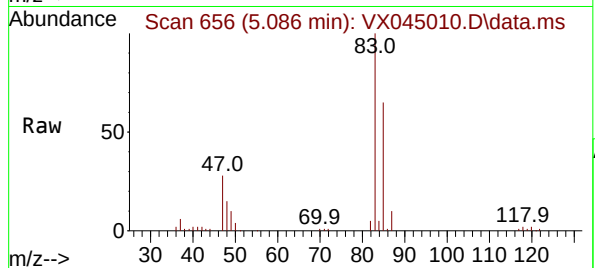
85 65.4 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#26

Cyclohexane

Concen: 50.802 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

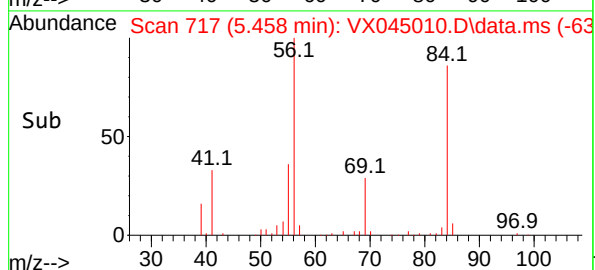
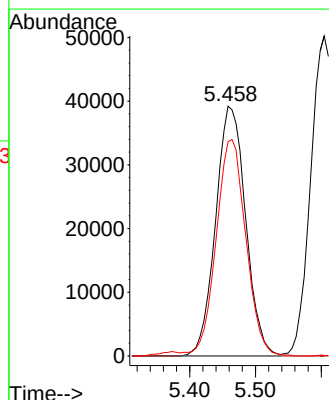
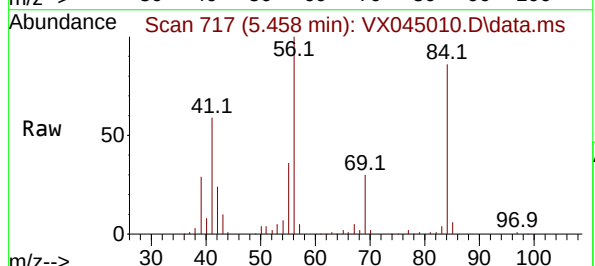
Tgt Ion: 56 Resp: 124373

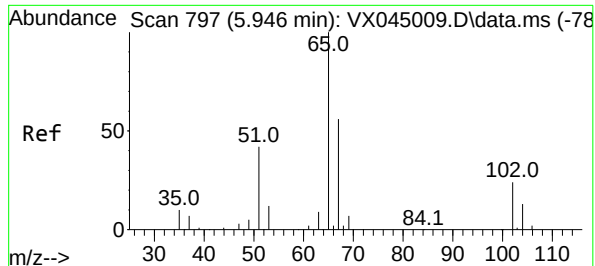
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 85.6 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 29.270 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 65 Resp: 49650

Ion Ratio Lower Upper

65 100

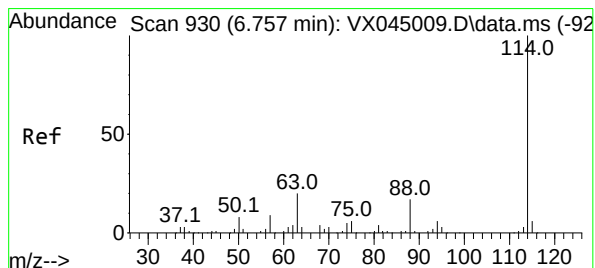
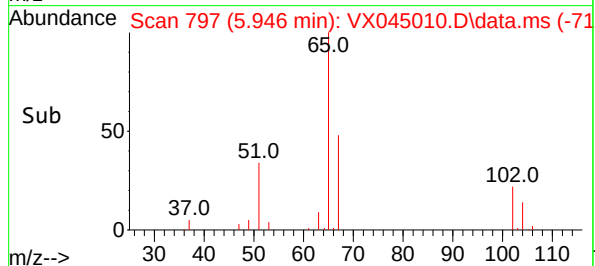
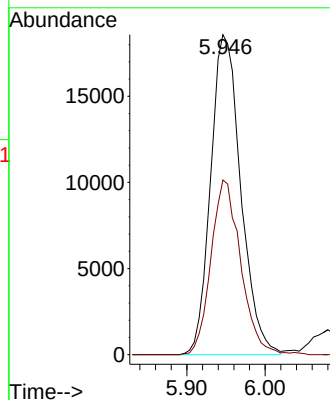
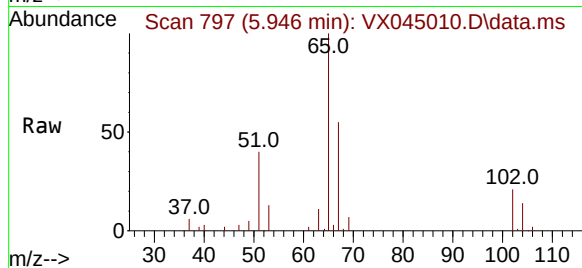
67 53.7 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

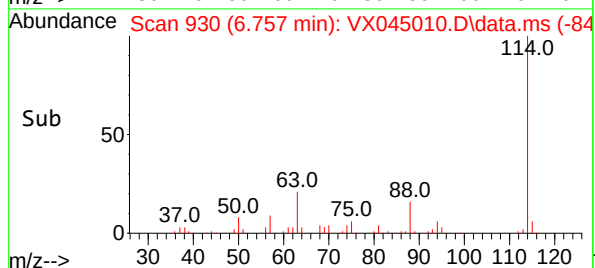
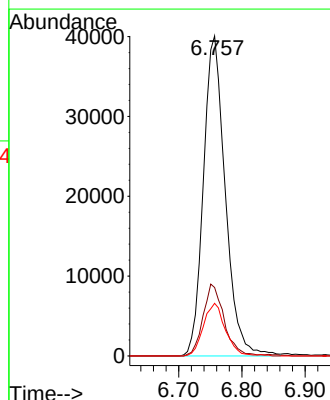
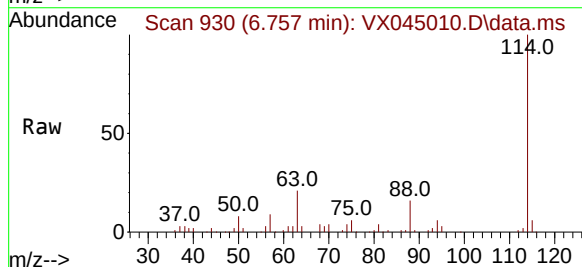
Tgt Ion:114 Resp: 96411

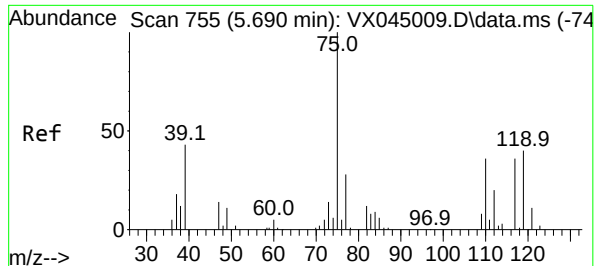
Ion Ratio Lower Upper

114 100

63 21.5 16.8 25.2

88 16.5 12.7 19.1





#29

1,1-Dichloropropene

Concen: 51.038 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 90510

Ion Ratio Lower Upper

75 100

110 35.3 0.0 69.2

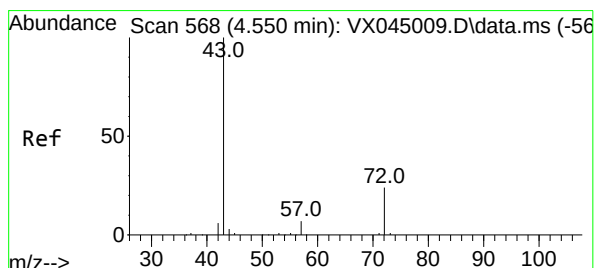
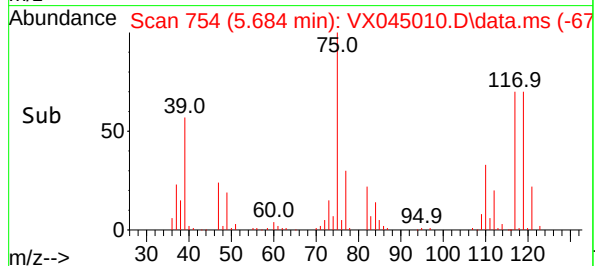
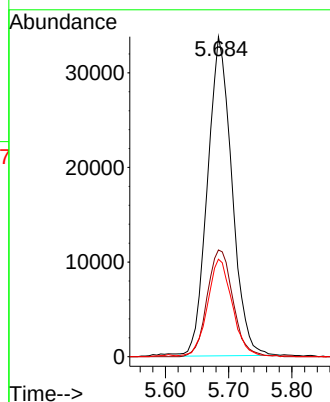
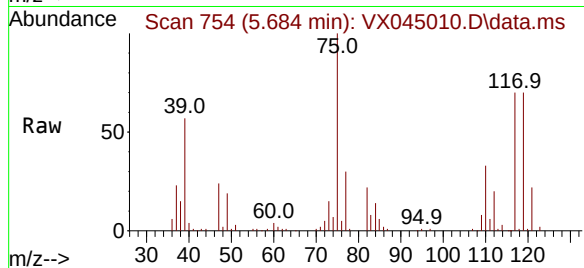
77 31.2 0.0 61.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#30

2-Butanone

Concen: 261.401 ug/l

RT: 4.544 min Scan# 567

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

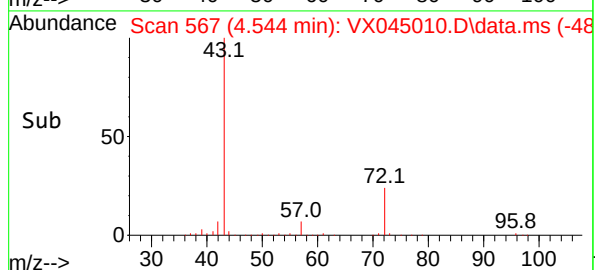
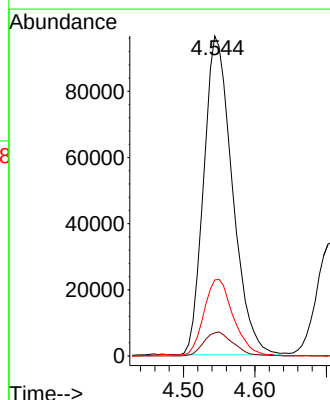
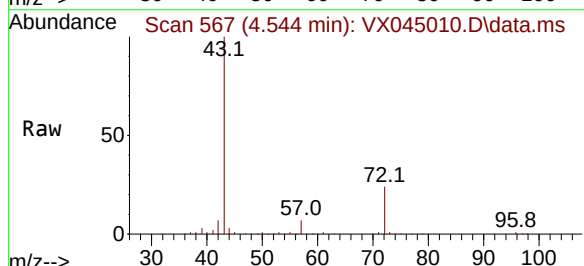
Tgt Ion: 43 Resp: 267770

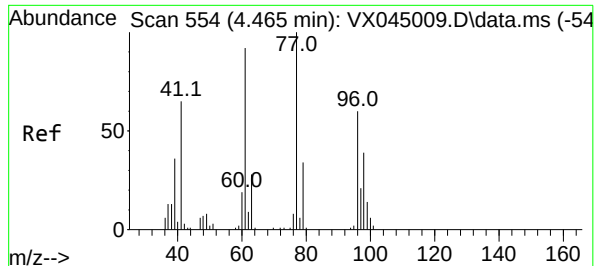
Ion Ratio Lower Upper

43 100

57 7.8 6.2 9.2

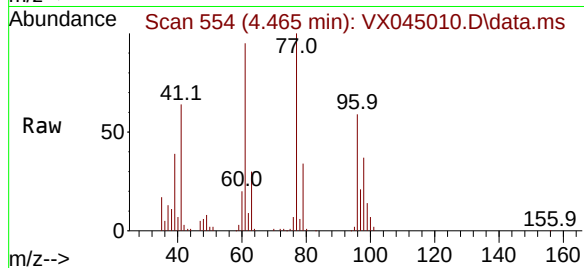
72 24.8 20.2 30.2





#31  
2,2-Dichloropropane  
Concen: 50.846 ug/l  
RT: 4.465 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

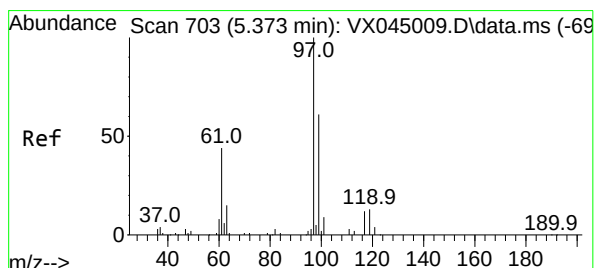
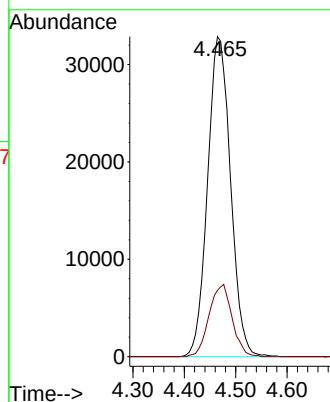
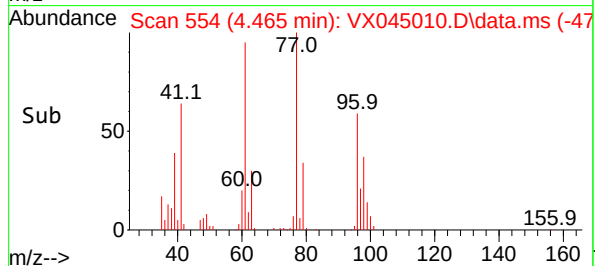
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050



Tgt Ion: 77 Resp: 101960  
Ion Ratio Lower Upper  
77 100  
97 22.5 18.0 27.0

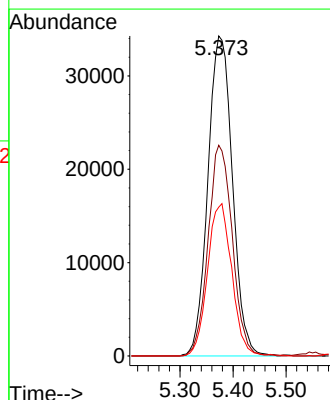
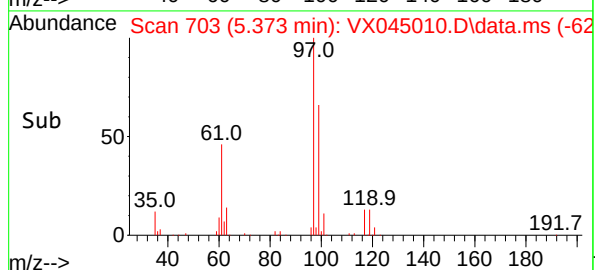
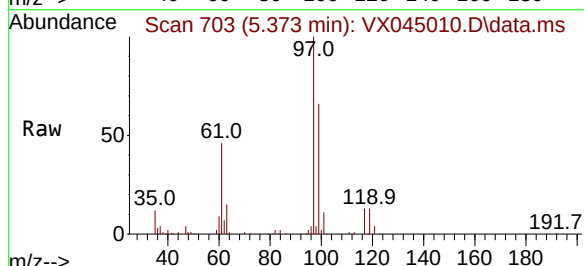
Manual Integrations  
APPROVED

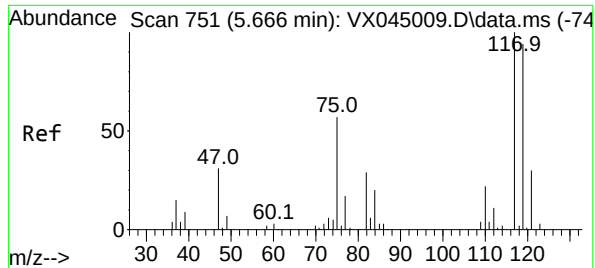
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#32  
1,1,1-Trichloroethane  
Concen: 51.322 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

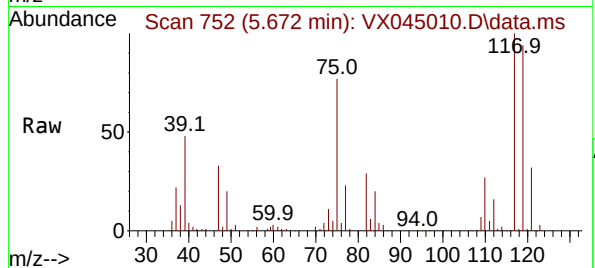
Tgt Ion: 97 Resp: 110282  
Ion Ratio Lower Upper  
97 100  
99 65.0 52.2 78.2  
61 46.9 38.5 57.7





#33  
Carbon Tetrachloride  
Concen: 51.023 ug/l  
RT: 5.672 min Scan# 751  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

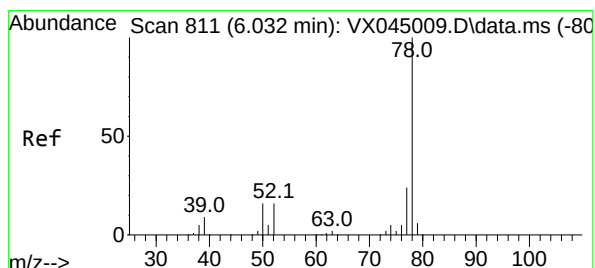
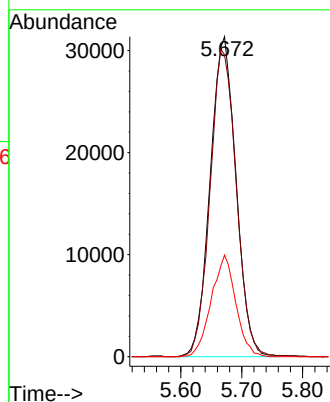
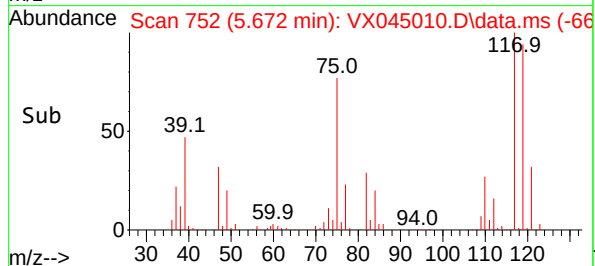
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:117 Resp: 92530  
Ion Ratio Lower Upper  
117 100  
119 94.1 75.1 112.7  
121 31.7 23.9 35.9

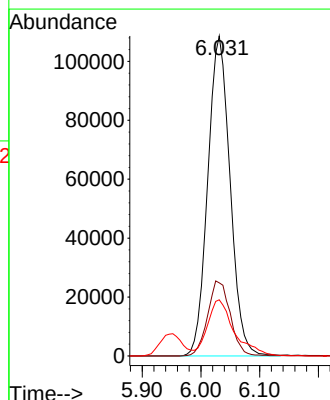
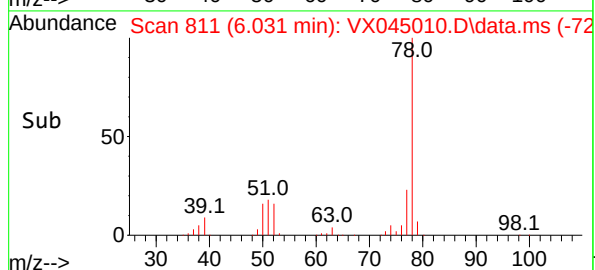
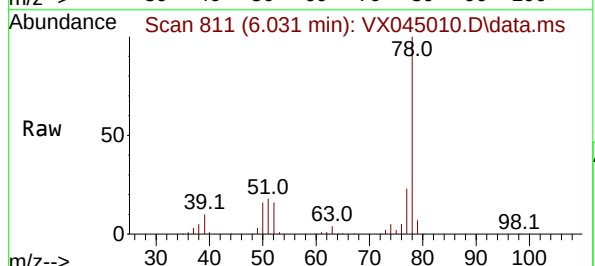
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

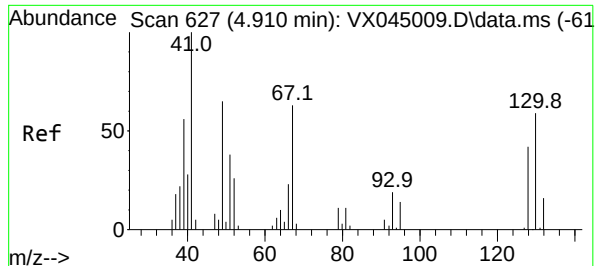


#34  
Benzene  
Concen: 51.573 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 78 Resp: 286826  
Ion Ratio Lower Upper  
78 100  
77 22.8 19.6 29.4  
51 17.4 13.8 20.6







#35

Methacrylonitrile

Concen: 53.843 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 5902

Ion Ratio Lower Upper

41 100

39 53.7 27.8 83.4

67 64.4 31.5 94.5

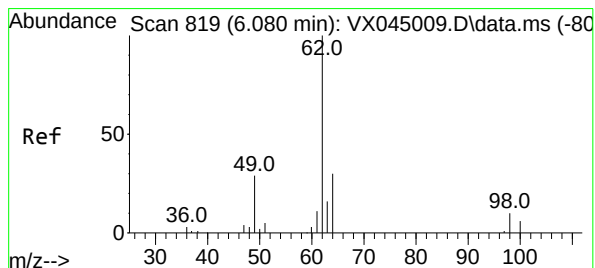
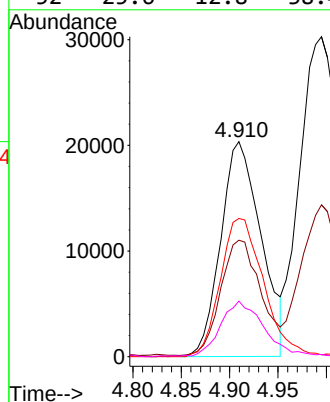
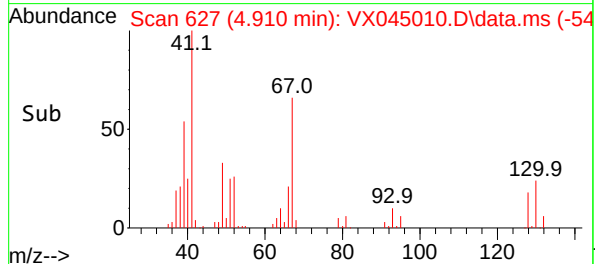
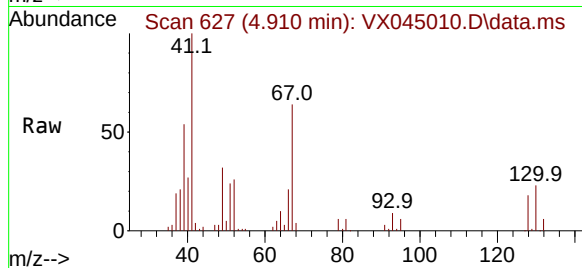
52 25.6 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#36

1,2-Dichloroethane

Concen: 50.630 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.000 min

Lab File: VX045010.D

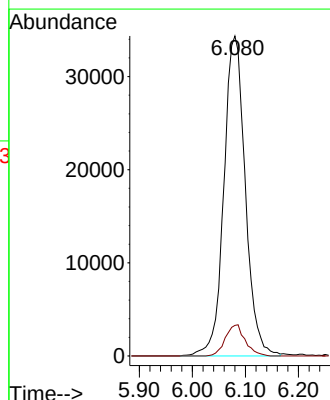
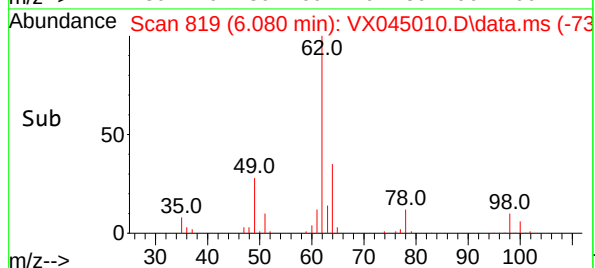
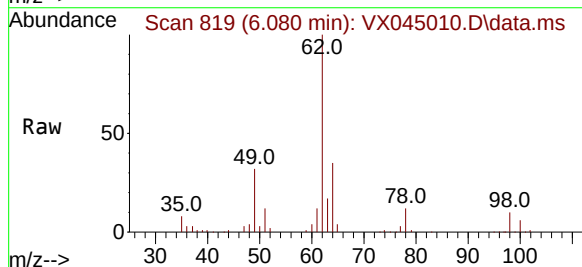
Acq: 21 Feb 2025 10:44

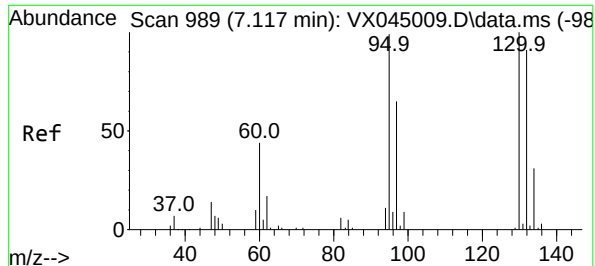
Tgt Ion: 62 Resp: 96405

Ion Ratio Lower Upper

62 100

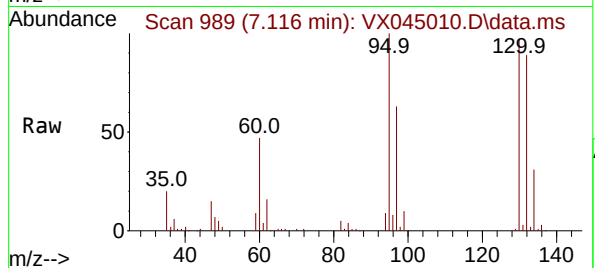
98 9.0 7.9 11.9





#37  
Trichloroethene  
Concen: 50.826 ug/l  
RT: 7.116 min Scan# 989  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

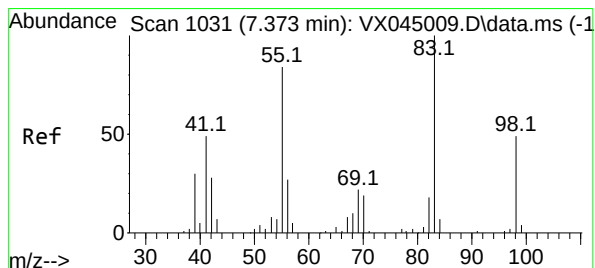
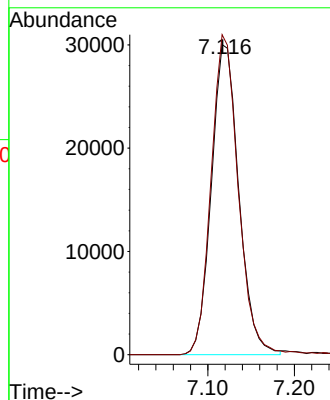
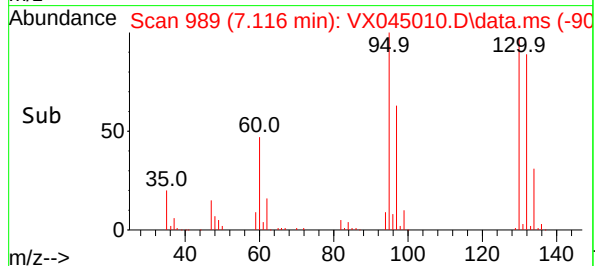
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:130 Resp: 6613  
Ion Ratio Lower Upper  
130 100  
95 103.2 79.0 118.4

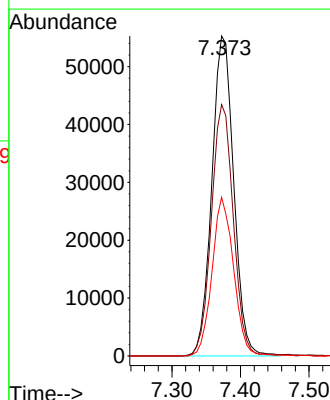
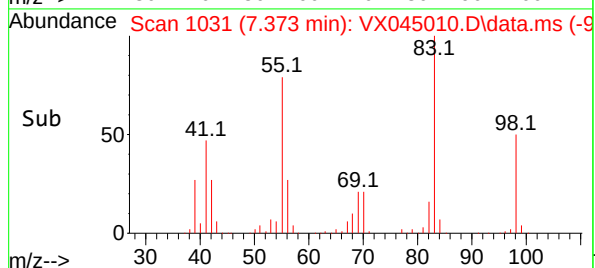
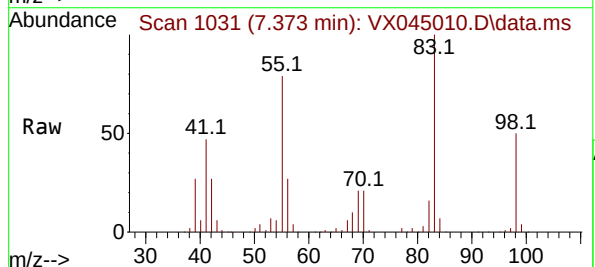
Manual Integrations  
APPROVED

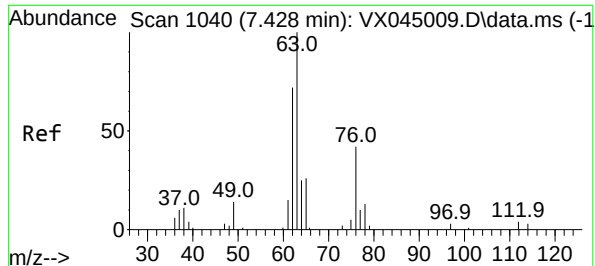
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#38  
Methylcyclohexane  
Concen: 51.506 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 83 Resp: 122650  
Ion Ratio Lower Upper  
83 100  
55 78.5 40.6 122.0  
98 48.7 24.9 74.6





#39

1,2-Dichloropropane

Concen: 49.579 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 6855

Ion Ratio Lower Upper

63 100

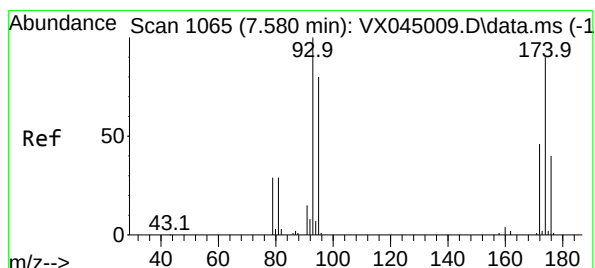
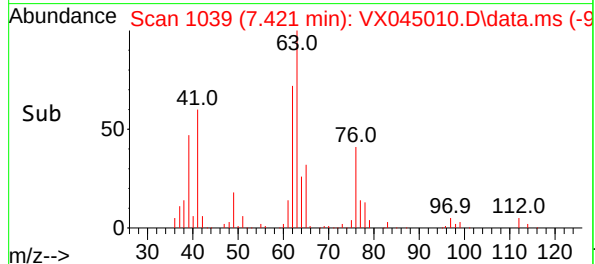
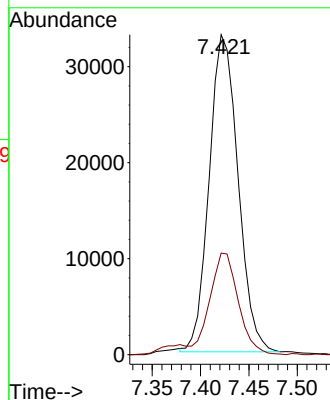
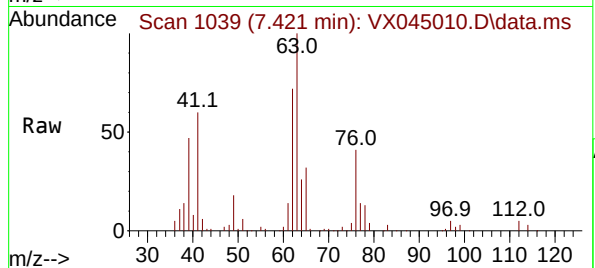
65 31.8 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#40

Dibromomethane

Concen: 50.426 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

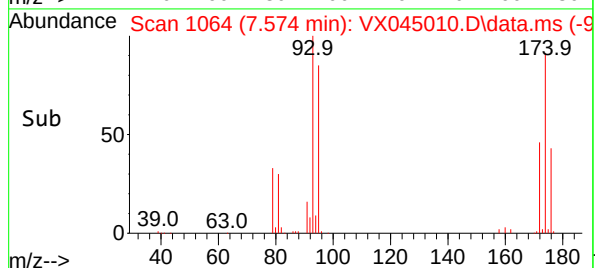
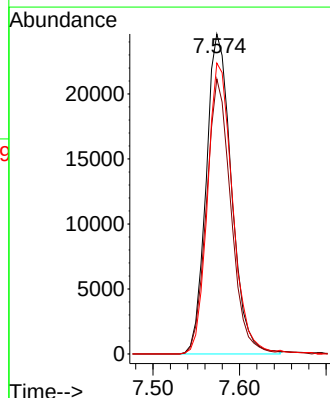
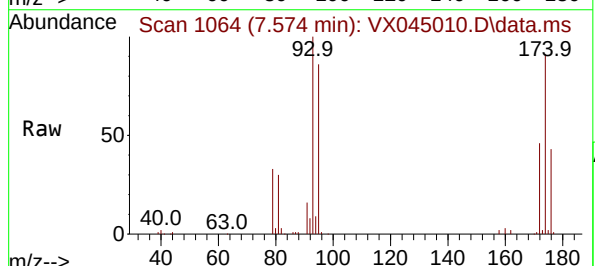
Tgt Ion: 93 Resp: 50034

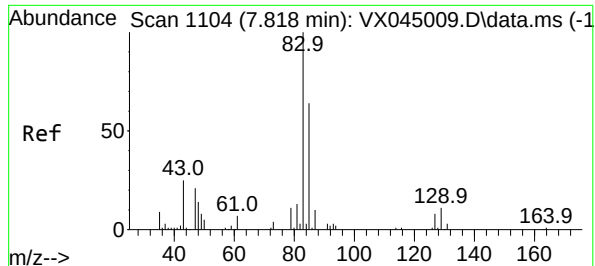
Ion Ratio Lower Upper

93 100

95 82.9 0.0 162.6

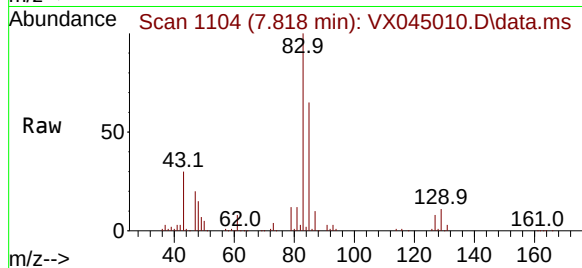
174 89.6 0.0 178.8





#41  
Bromodichloromethane  
Concen: 50.932 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

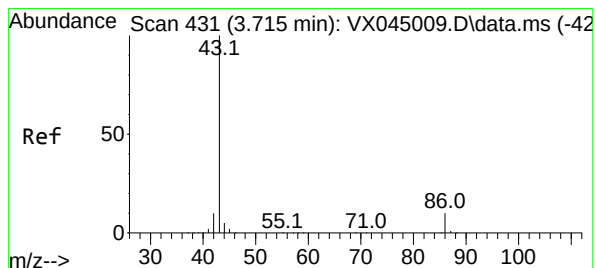
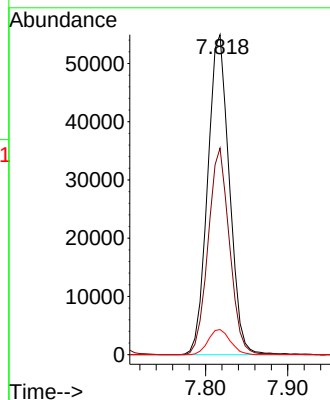
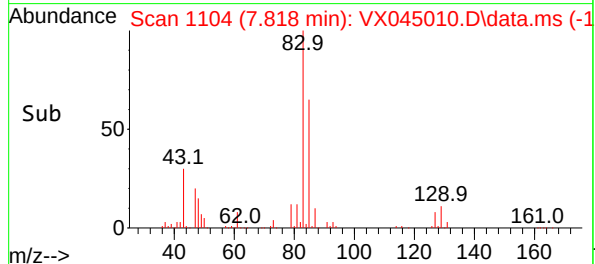
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion: 83 Resp: 100442  
Ion Ratio Lower Upper  
83 100  
85 64.6 51.0 76.6  
127 7.8 6.1 9.1

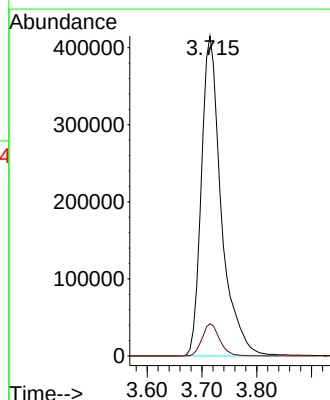
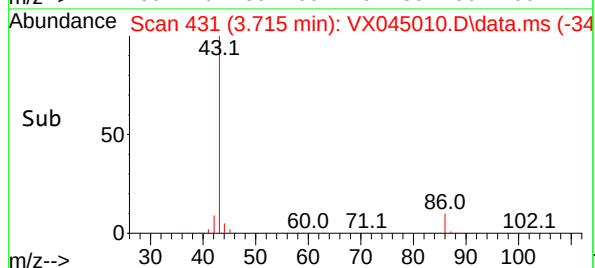
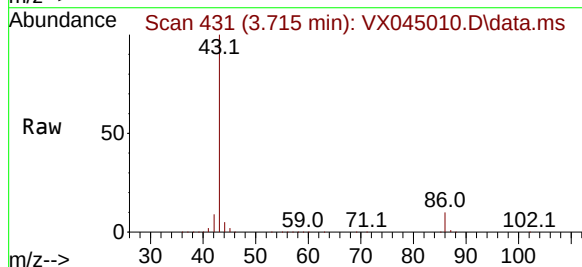
Manual Integrations  
APPROVED

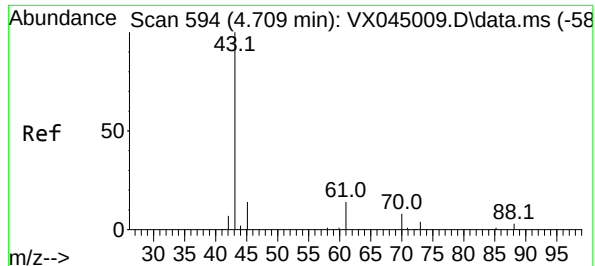
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#42  
Vinyl Acetate  
Concen: 263.518 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

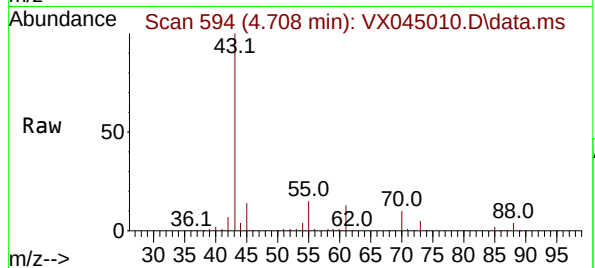
Tgt Ion: 43 Resp: 1047506  
Ion Ratio Lower Upper  
43 100  
86 8.9 7.0 10.4





#43  
Ethyl Acetate  
Concen: 51.012 ug/l  
RT: 4.708 min Scan# 594  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

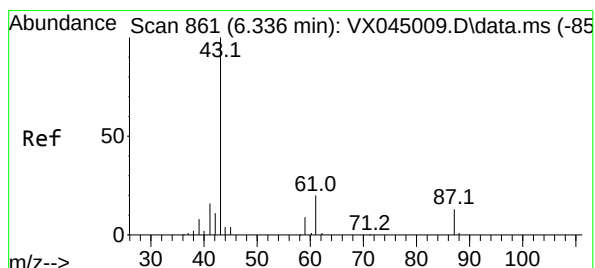
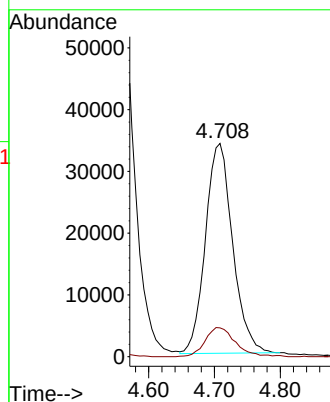
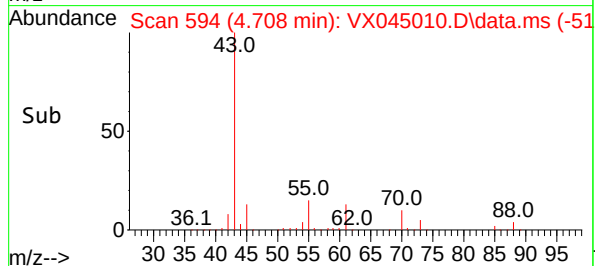
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion: 43 Resp: 97995  
Ion Ratio Lower Upper  
43 100  
45 15.1 12.7 19.1

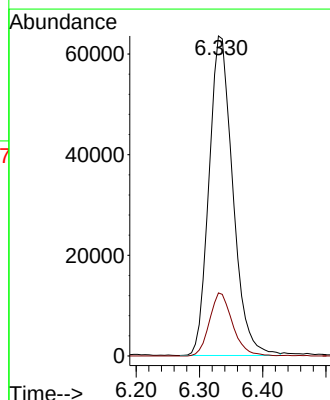
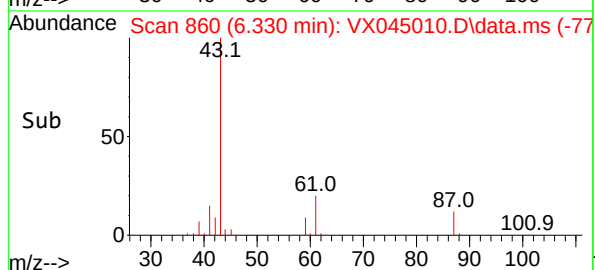
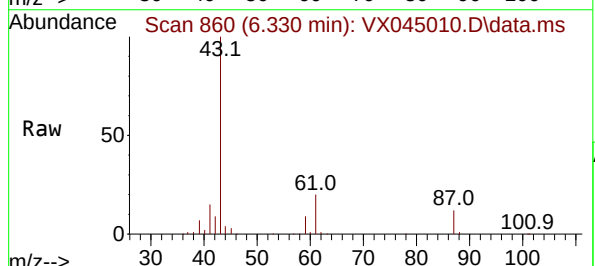
Manual Integrations  
APPROVED

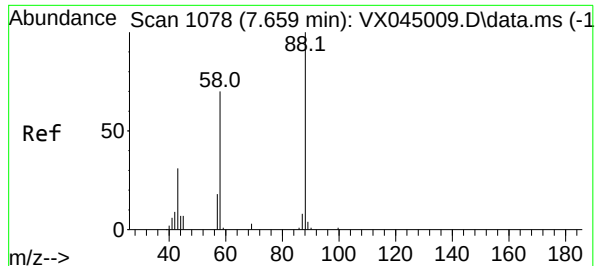
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#44  
Isopropyl Acetate  
Concen: 52.497 ug/l  
RT: 6.330 min Scan# 860  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 165983  
Ion Ratio Lower Upper  
43 100  
61 19.1 15.5 23.3





#45

1,4-Dioxane

Concen: 1105.035 ug/l

RT: 7.653 min Scan# 1077

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

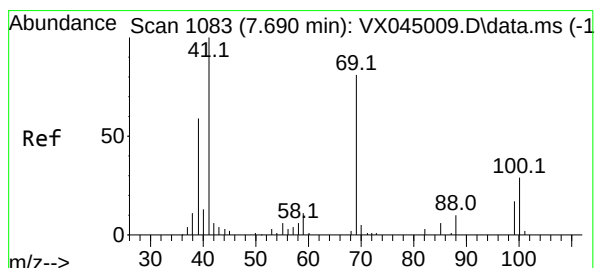
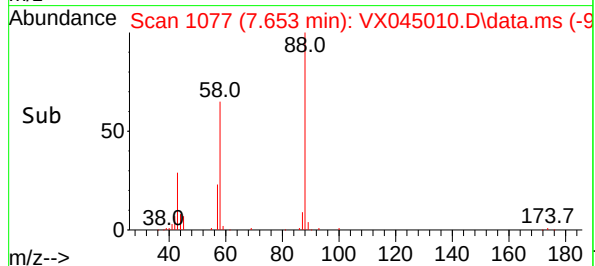
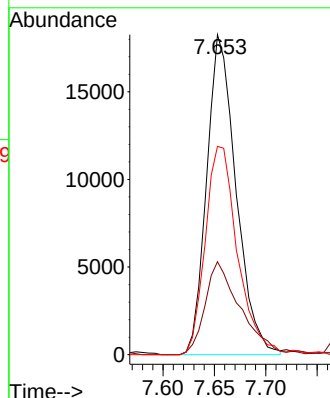
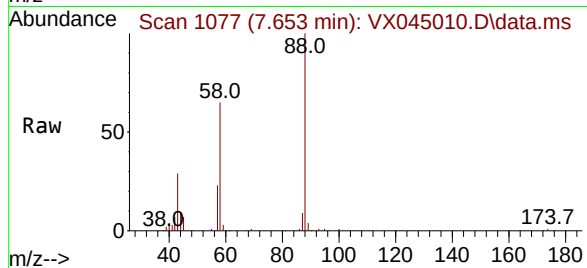
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 36320 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 34.6  | 29.6  | 44.4  |
| 58       | 71.3  | 56.2  | 84.4  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#46

Methyl methacrylate

Concen: 52.896 ug/l

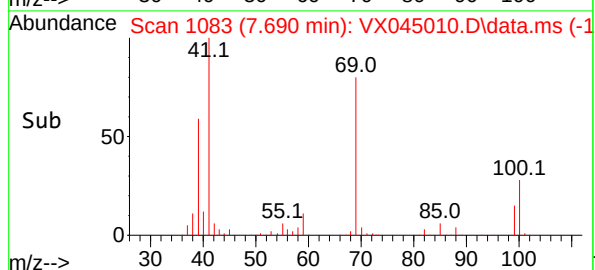
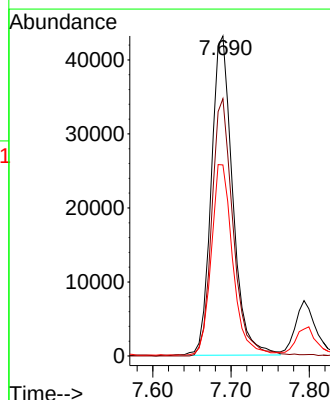
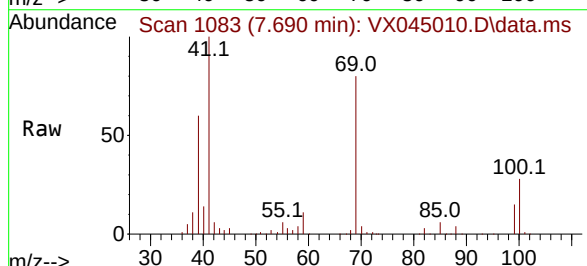
RT: 7.690 min Scan# 1083

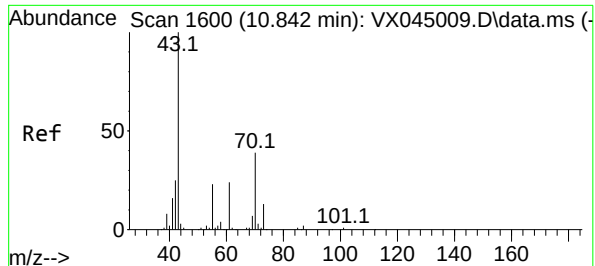
Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

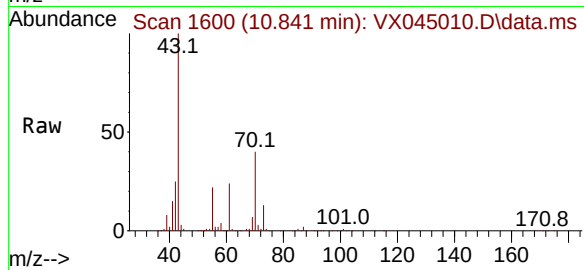
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 82008 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 80.7  | 40.7  | 122.1 |
| 39       | 59.6  | 29.5  | 88.5  |





#47  
n-amy1 Acetate  
Concen: 53.981 ug/l  
RT: 10.841 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

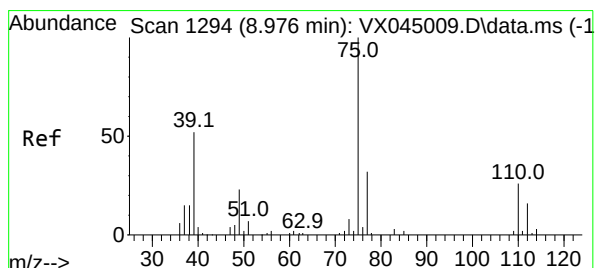
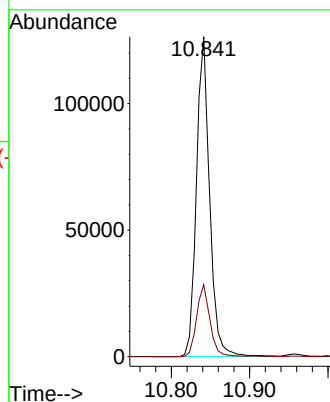
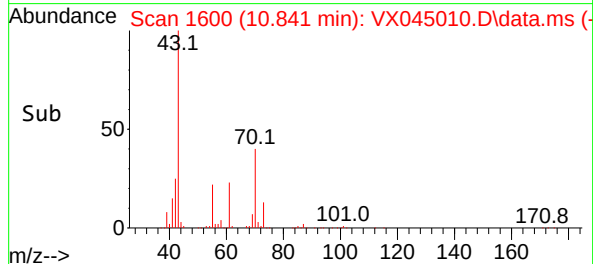
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050



Tgt Ion: 43 Resp: 148104  
Ion Ratio Lower Upper  
43 100  
55 22.7 18.6 27.8

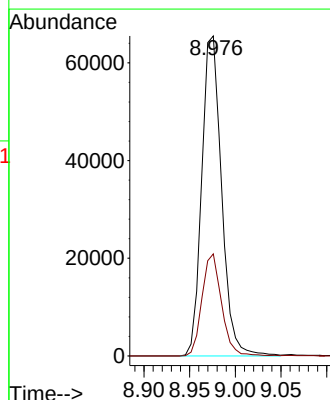
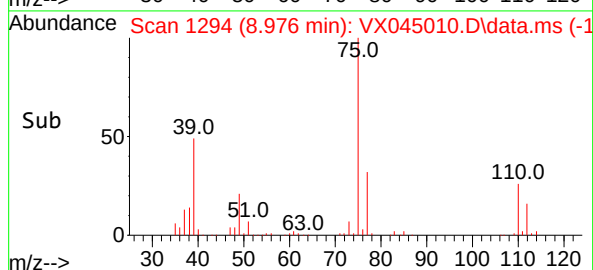
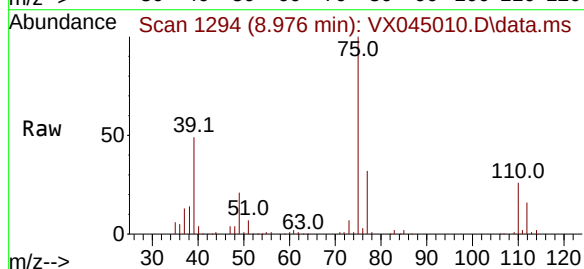
Manual Integrations  
APPROVED

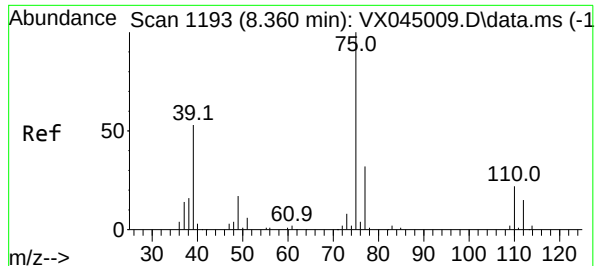
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#48  
t-1,3-Dichloropropene  
Concen: 52.075 ug/l  
RT: 8.976 min Scan# 1294  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 98986  
Ion Ratio Lower Upper  
75 100  
77 31.9 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 51.564 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 11095

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9

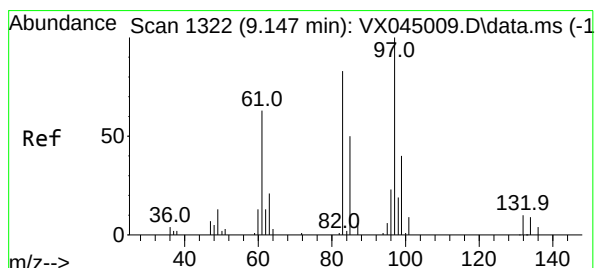
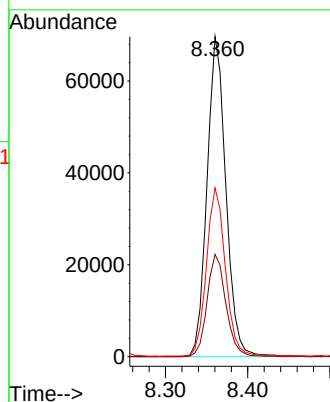
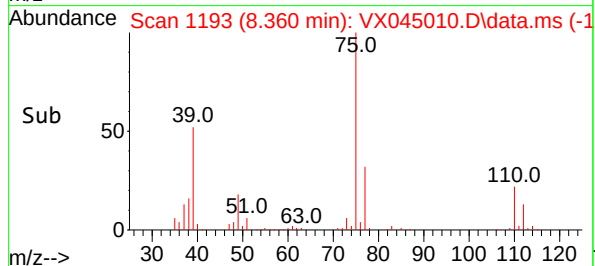
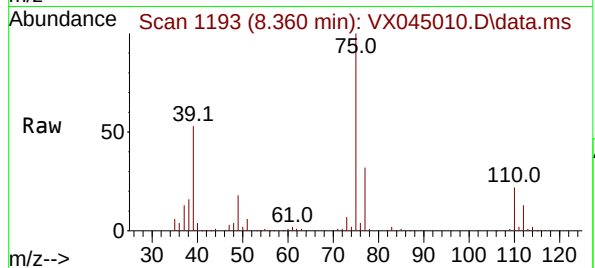
39 52.5 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

1,1,2-Trichloroethane

Concen: 51.339 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Tgt Ion: 97 Resp: 66444

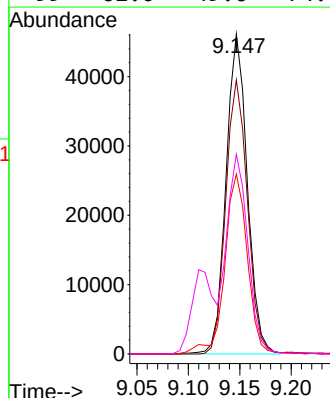
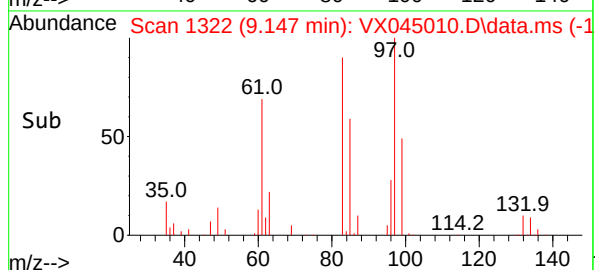
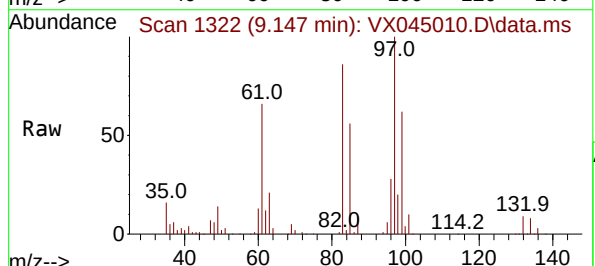
Ion Ratio Lower Upper

97 100

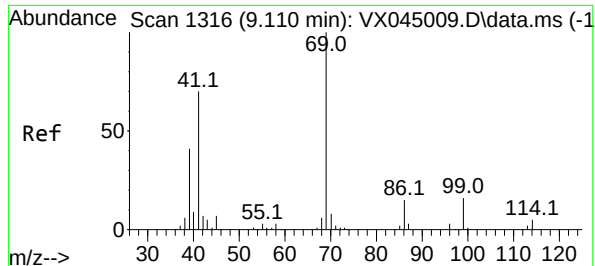
83 85.7 66.0 99.0

85 56.0 42.5 63.7

99 62.0 49.6 74.4







#51

Ethyl methacrylate

Concen: 53.387 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 69 Resp: 108669

Ion Ratio Lower Upper

69 100

41 72.3 35.1 105.3

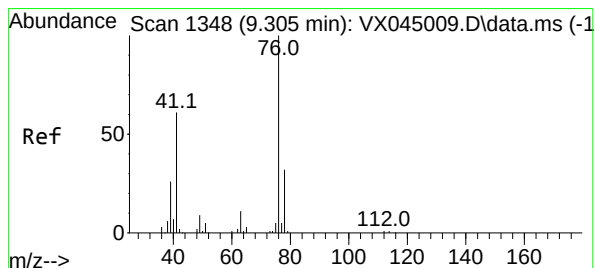
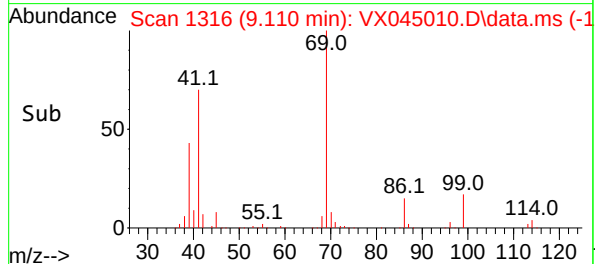
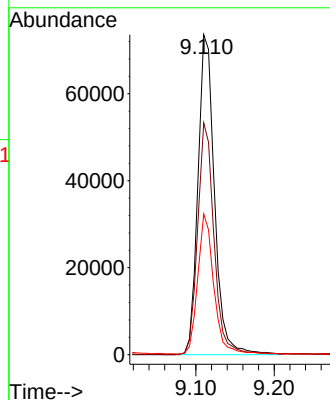
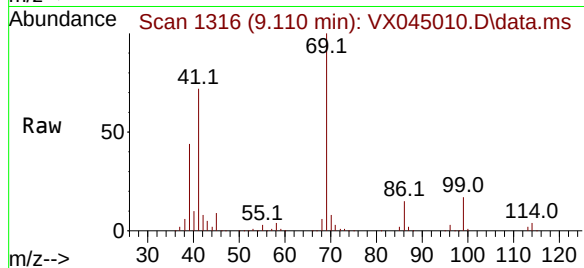
39 43.7 20.5 61.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#52

1,3-Dichloropropane

Concen: 51.310 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045010.D

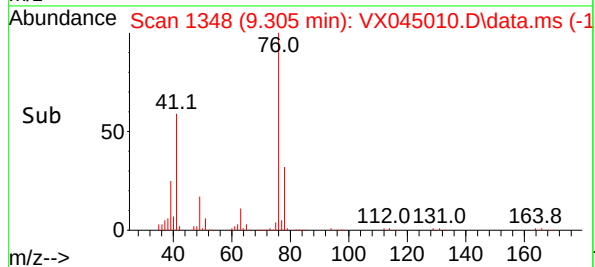
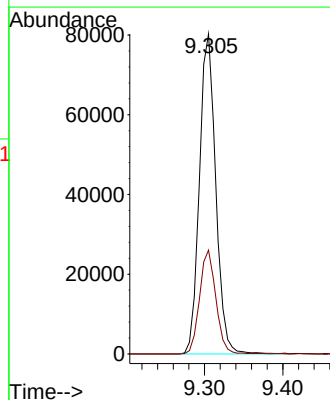
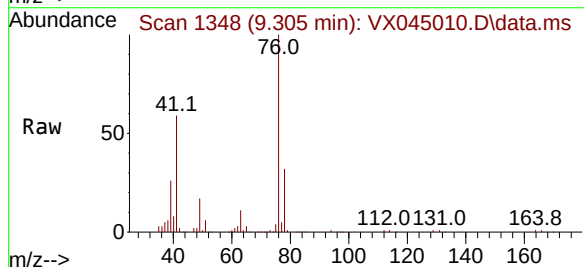
Acq: 21 Feb 2025 10:44

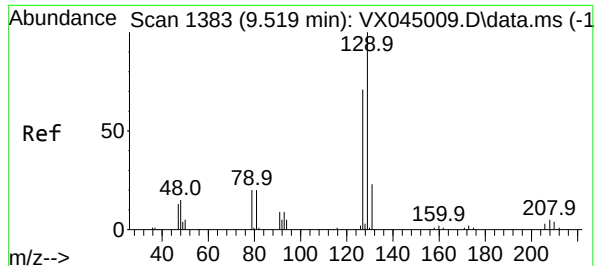
Tgt Ion: 76 Resp: 116358

Ion Ratio Lower Upper

76 100

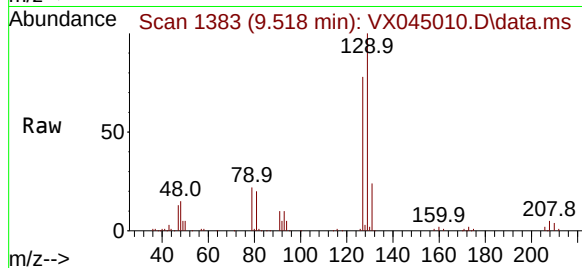
78 32.2 0.0 63.6





#53  
Dibromochloromethane  
Concen: 51.304 ug/l  
RT: 9.518 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

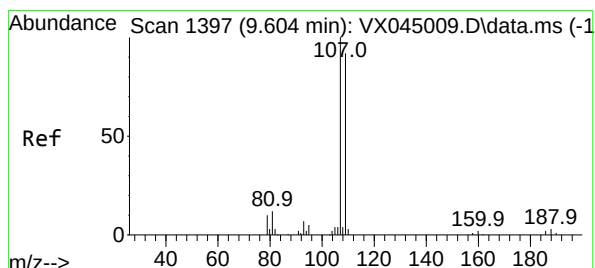
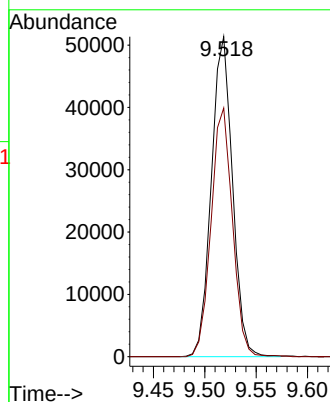
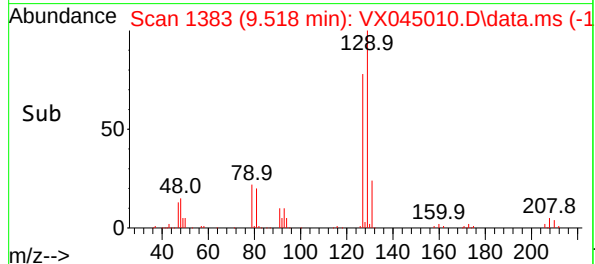
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:129 Resp: 7343  
Ion Ratio Lower Upper  
129 100  
127 78.2 37.3 111.9

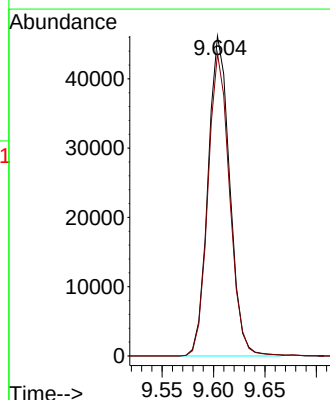
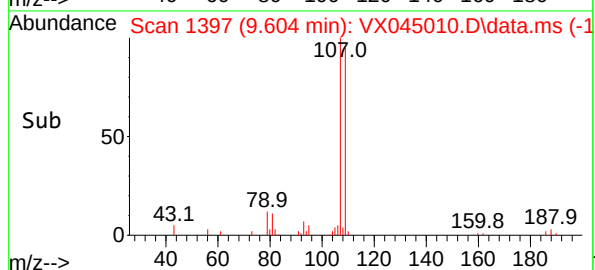
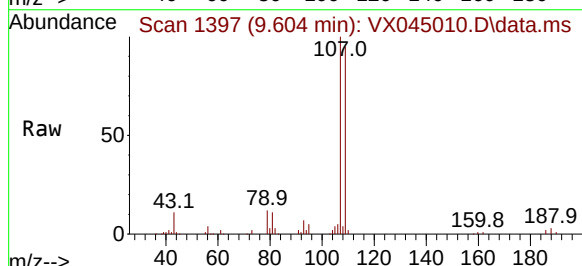
Manual Integrations  
APPROVED

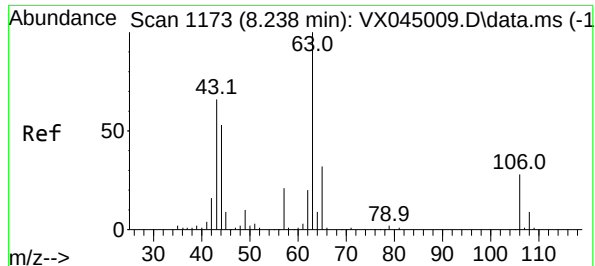
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#54  
1,2-Dibromoethane  
Concen: 51.685 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion:107 Resp: 67926  
Ion Ratio Lower Upper  
107 100  
109 94.0 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 260.575 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 272372

Ion Ratio Lower Upper

63 100

65 32.3 26.2 39.2

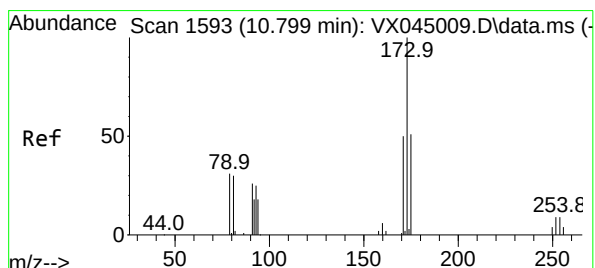
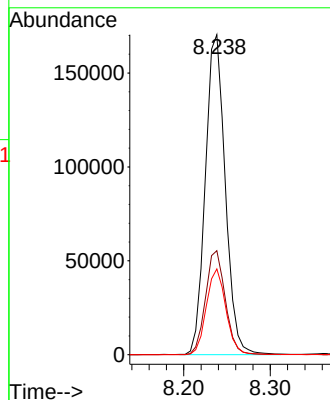
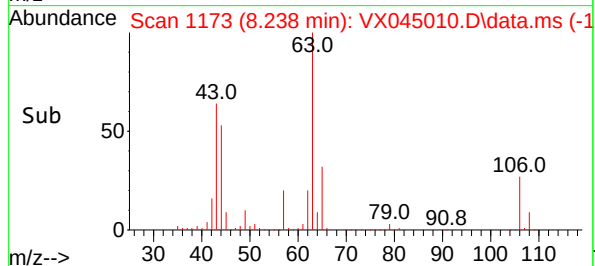
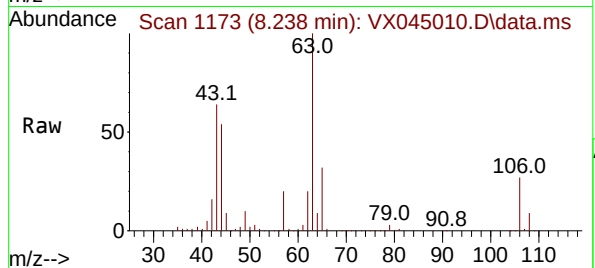
106 26.4 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#56

Bromoform

Concen: 53.392 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

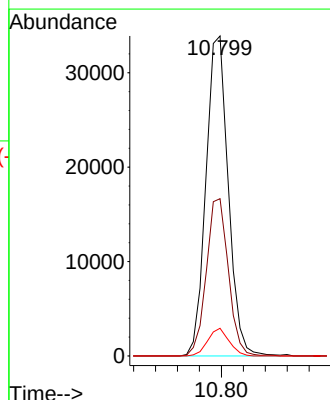
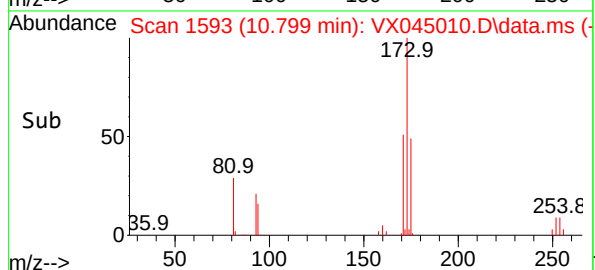
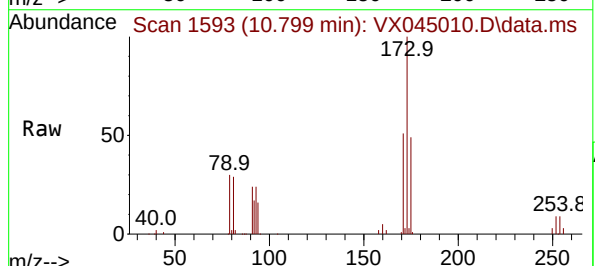
Tgt Ion:173 Resp: 47891

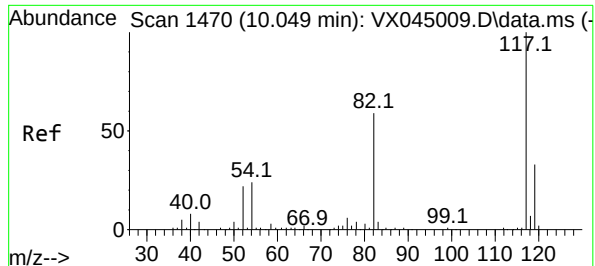
Ion Ratio Lower Upper

173 100

175 48.5 39.6 59.4

254 8.3 6.3 9.5





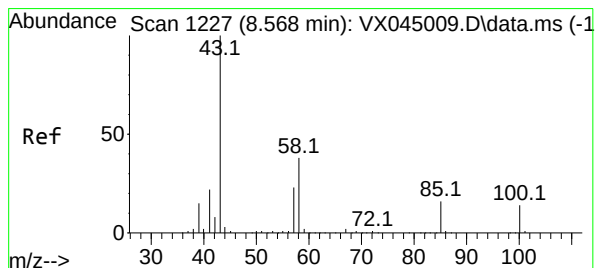
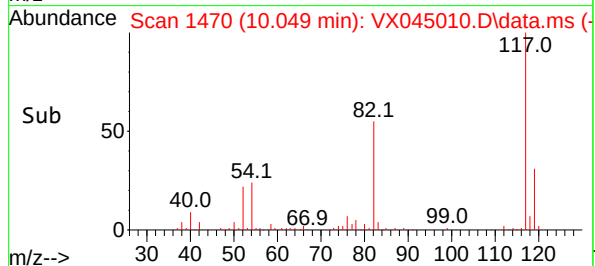
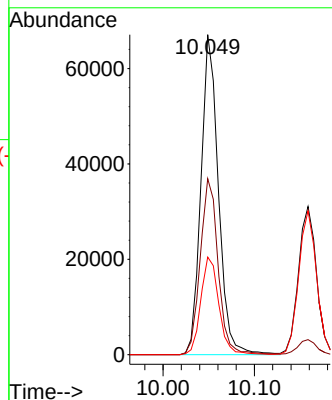
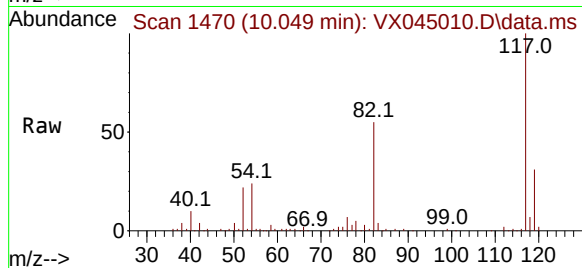
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

Tgt Ion: 117 Resp: 89300  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.8 68.8  
119 31.7 25.5 38.3

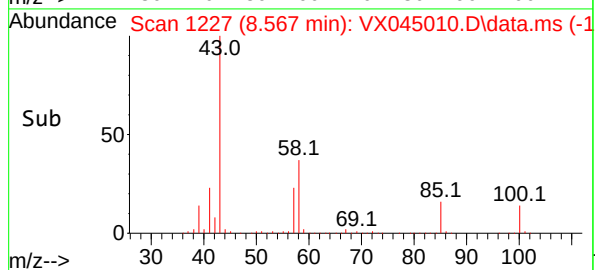
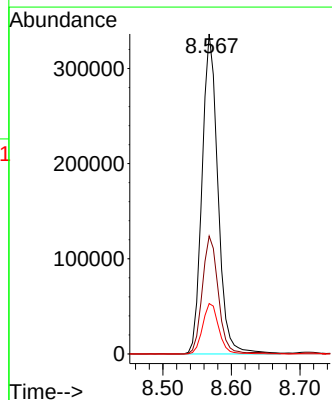
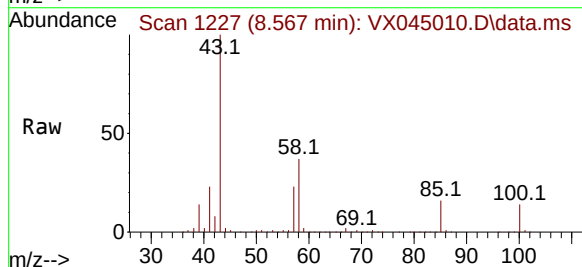
Manual Integrations  
APPROVED

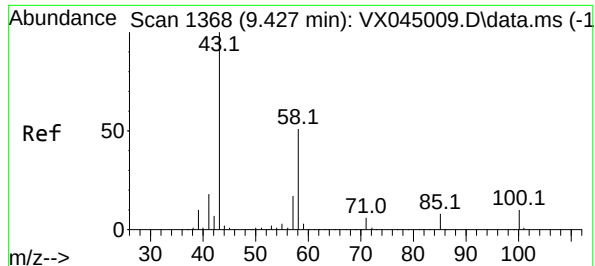
Reviewed By : John Carlone 02/24/2025  
Supervised By : Mahesh Dadoda 02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 267.752 ug/l  
RT: 8.567 min Scan# 1227  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 543908  
Ion Ratio Lower Upper  
43 100  
58 36.7 29.5 44.3  
85 16.0 12.9 19.3





#59

2-Hexanone

Concen: 271.195 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 398198

Ion Ratio Lower Upper

43 100

58 52.5 41.6 62.4

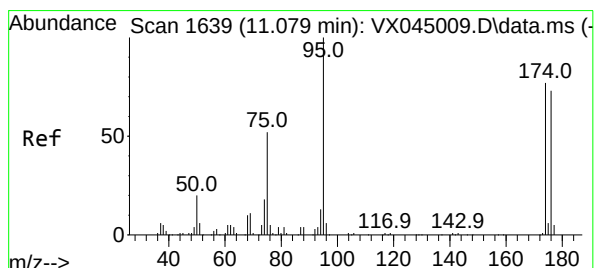
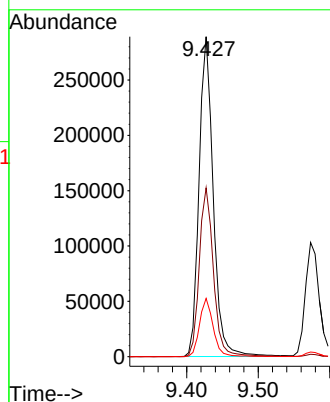
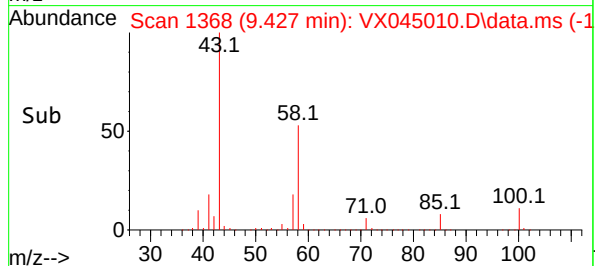
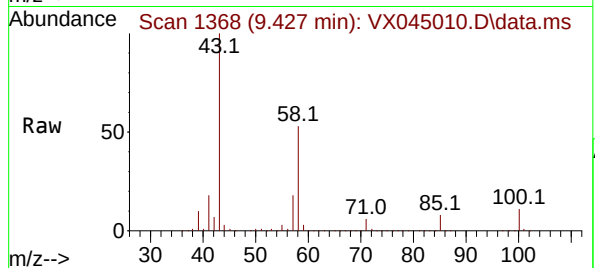
57 17.6 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#60

4-Bromofluorobenzene

Concen: 30.203 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

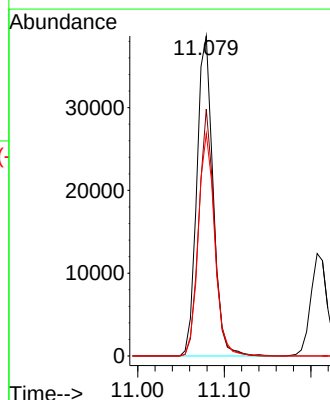
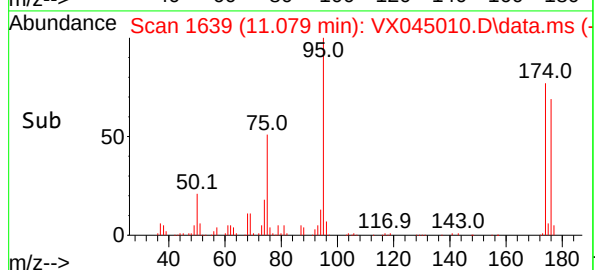
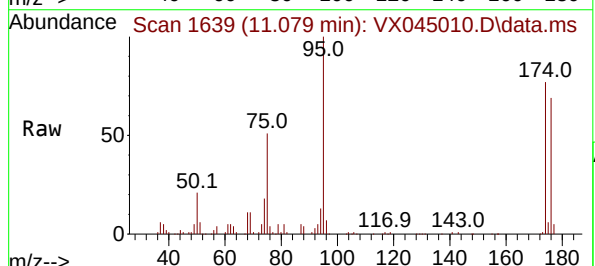
Tgt Ion: 95 Resp: 50413

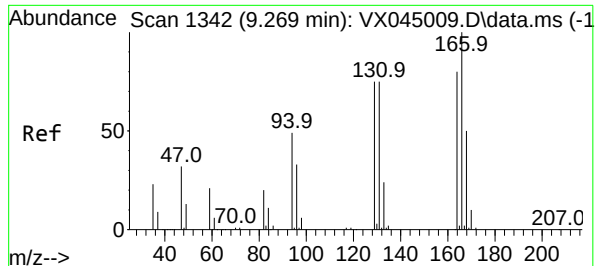
Ion Ratio Lower Upper

95 100

174 73.6 59.5 89.3

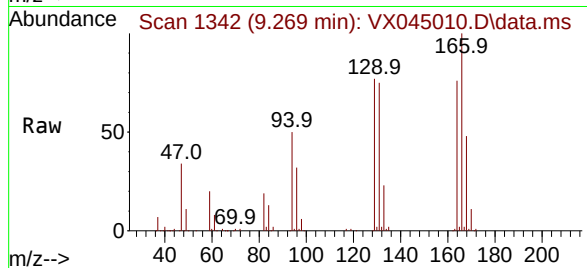
176 70.2 55.5 83.3





#61  
Tetrachloroethene  
Concen: 49.659 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

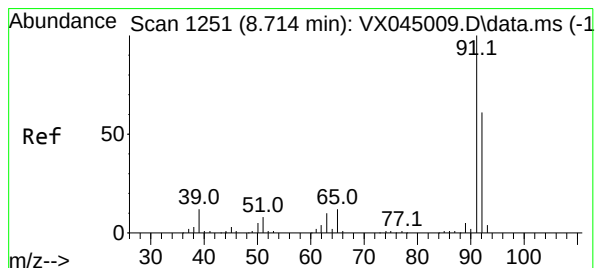
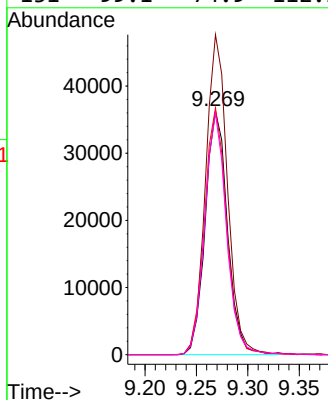
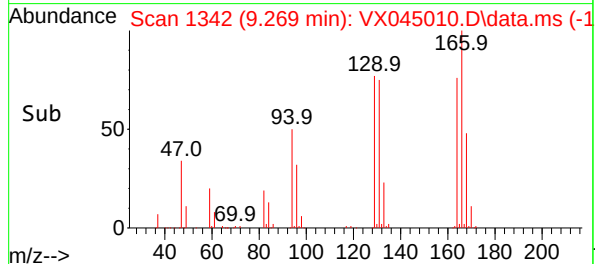
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:164 Resp: 5460  
Ion Ratio Lower Upper  
164 100  
166 131.4 100.3 150.5  
129 101.2 75.5 113.3  
131 99.1 74.9 112.3

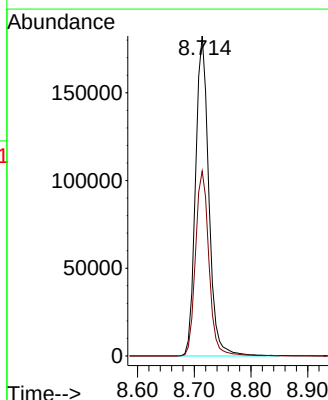
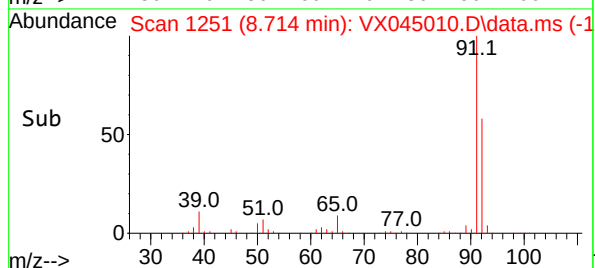
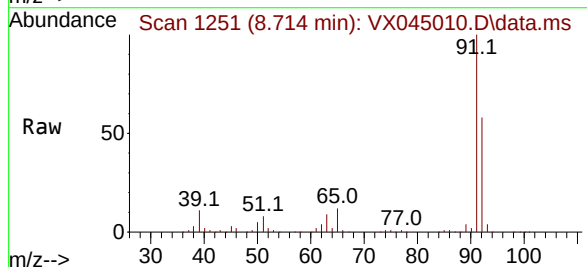
Manual Integrations  
APPROVED

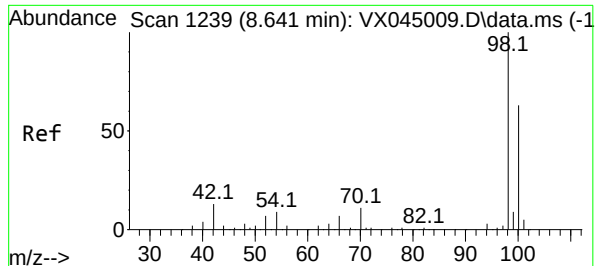
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#62  
Toluene  
Concen: 50.195 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

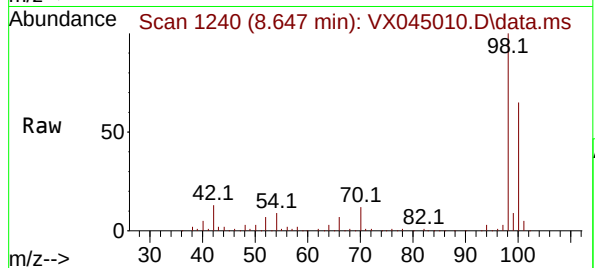
Tgt Ion: 91 Resp: 296930  
Ion Ratio Lower Upper  
91 100  
92 58.4 46.9 70.3





#63  
Toluene-d8  
Concen: 29.819 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

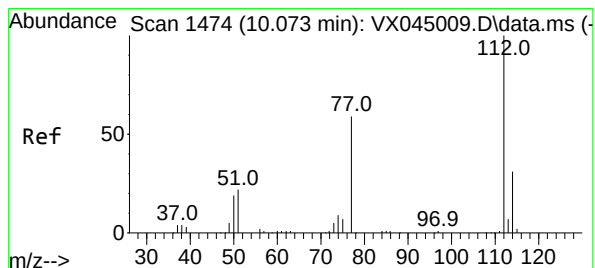
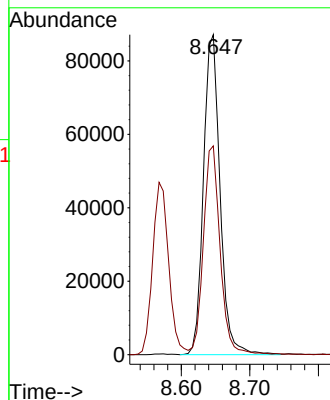
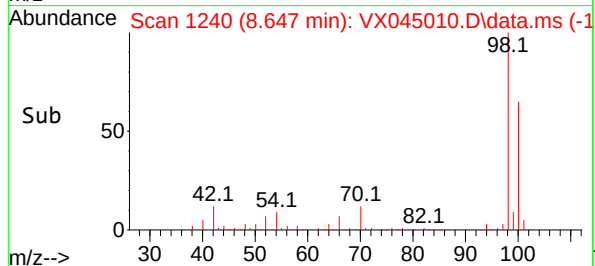
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion: 98 Resp: 147315  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.7 77.5

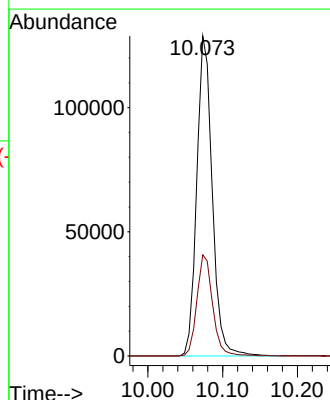
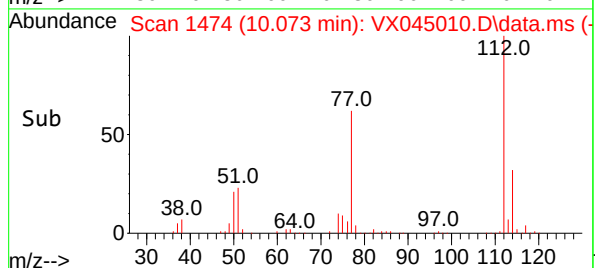
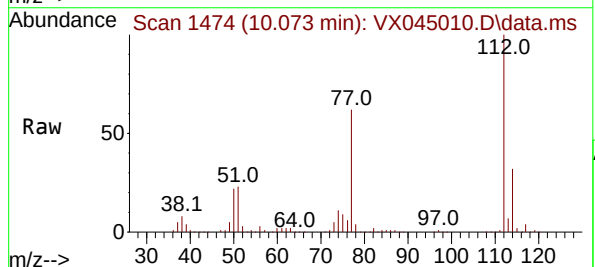
Manual Integrations  
APPROVED

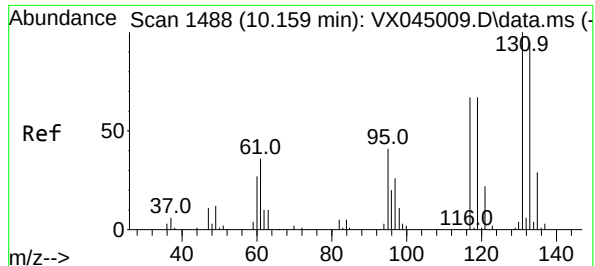
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#64  
Chlorobenzene  
Concen: 50.511 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

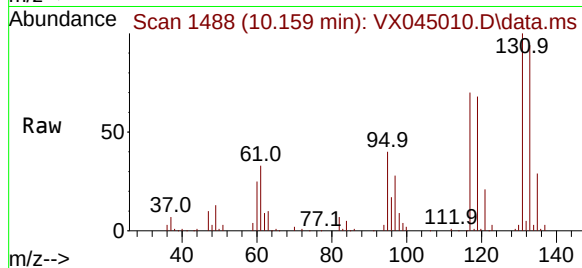
Tgt Ion:112 Resp: 185159  
Ion Ratio Lower Upper  
112 100  
114 31.6 24.7 37.1





#65  
1,1,1,2-Tetrachloroethane  
Concen: 50.244 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

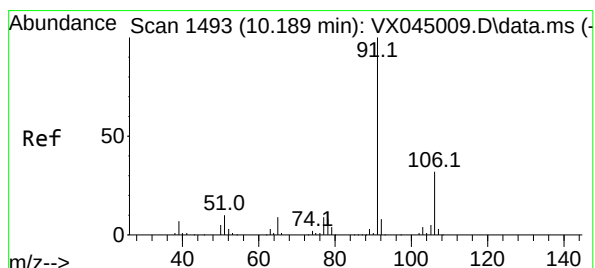
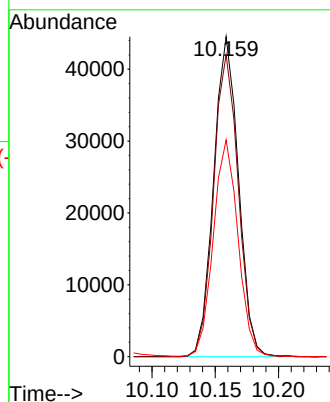
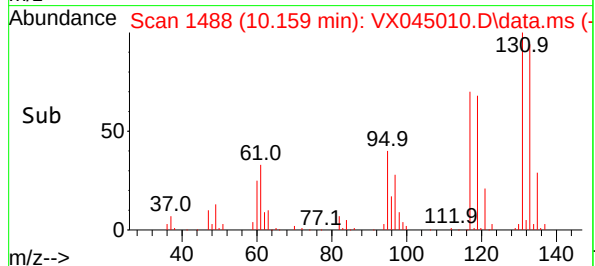
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:131 Resp: 60773  
Ion Ratio Lower Upper  
131 100  
133 94.0 0.0 187.8  
119 67.5 0.0 133.0

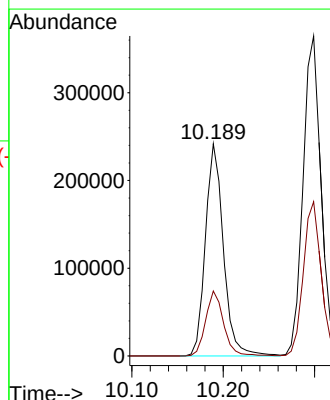
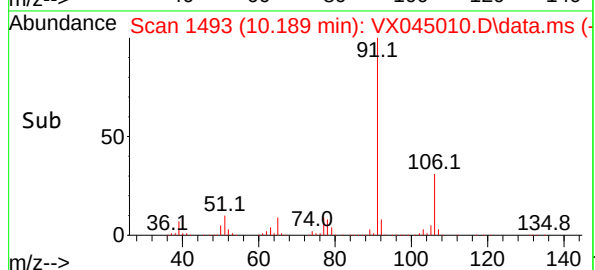
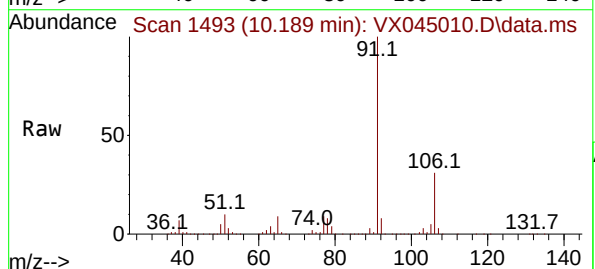
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

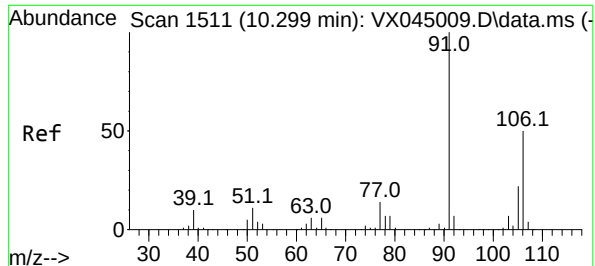


#66  
Ethyl Benzene  
Concen: 51.018 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 330414  
Ion Ratio Lower Upper  
91 100  
106 30.6 25.4 38.2







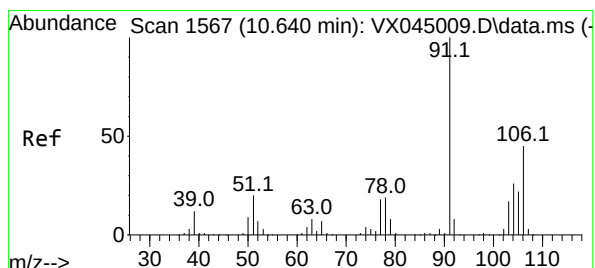
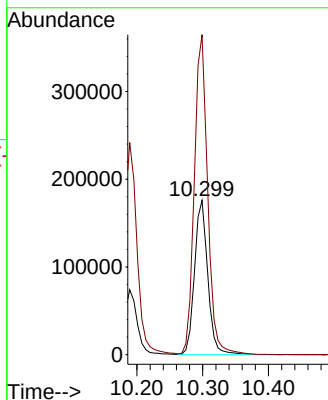
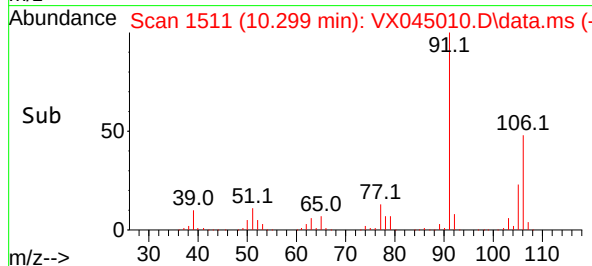
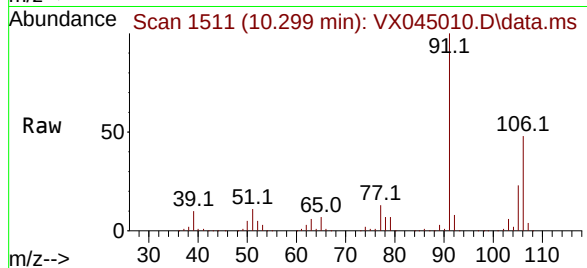
#67  
m/p-Xylenes  
Concen: 101.498 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050

Tgt Ion:106 Resp: 244910  
Ion Ratio Lower Upper  
106 100  
91 208.8 163.7 245.5

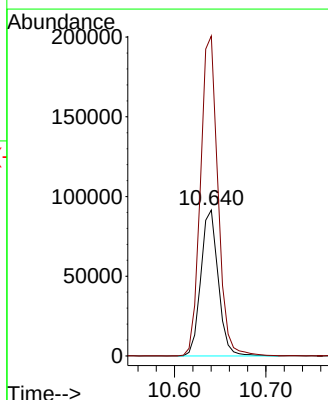
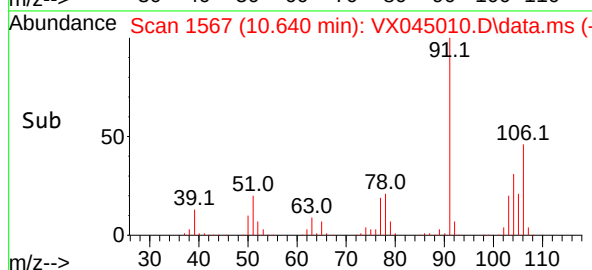
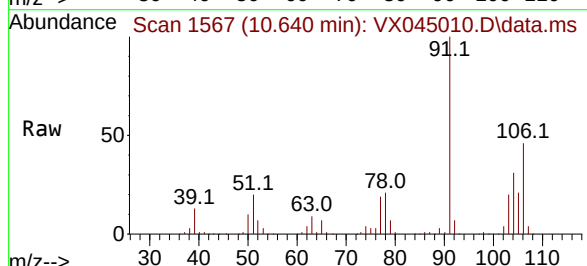
Manual Integrations  
APPROVED

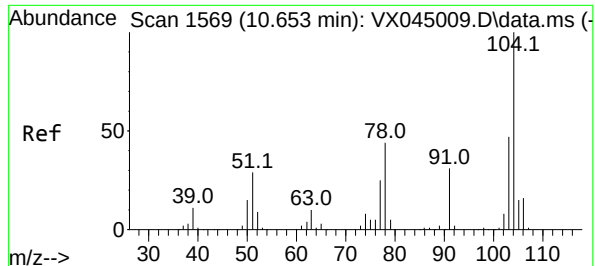
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#68  
o-Xylene  
Concen: 51.080 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion:106 Resp: 120934  
Ion Ratio Lower Upper  
106 100  
91 219.8 109.7 329.1





#69

Styrene

Concen: 51.306 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion:104 Resp: 202875

Ion Ratio Lower Upper

104 100

78 51.4 41.4 62.0

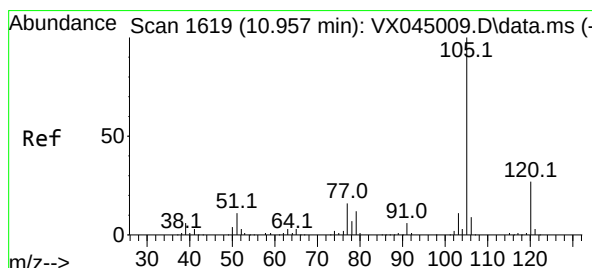
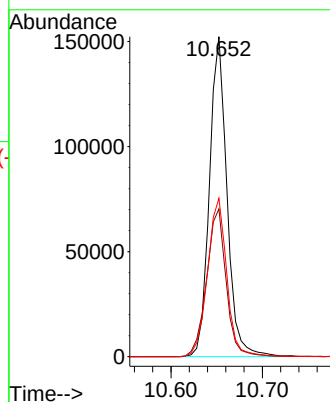
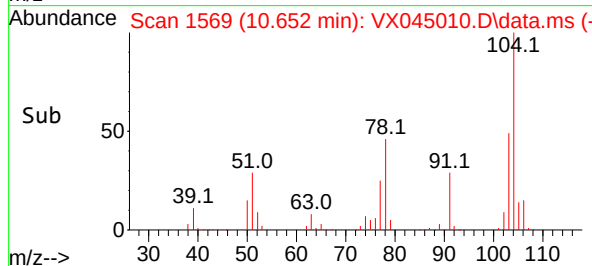
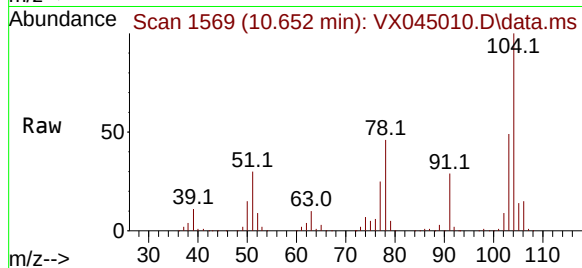
103 54.4 43.0 64.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#70

Isopropylbenzene

Concen: 50.888 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX045010.D

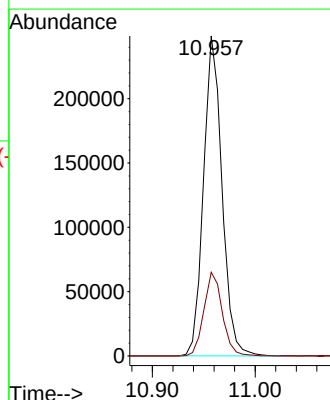
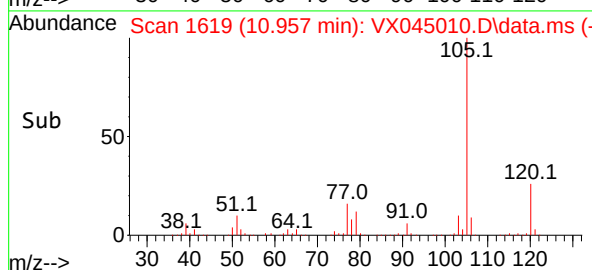
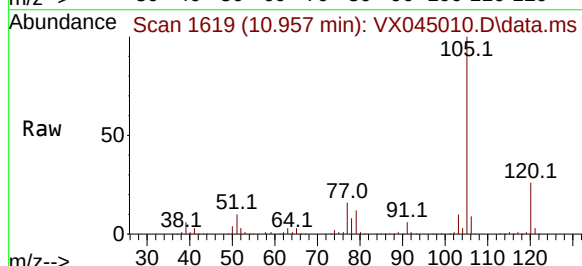
Acq: 21 Feb 2025 10:44

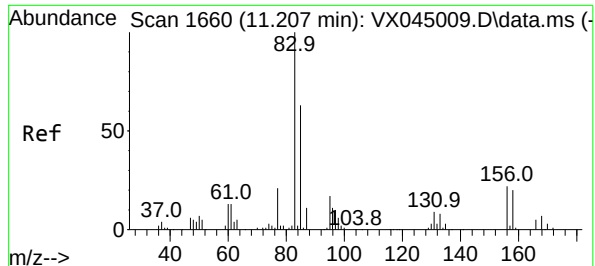
Tgt Ion:105 Resp: 310911

Ion Ratio Lower Upper

105 100

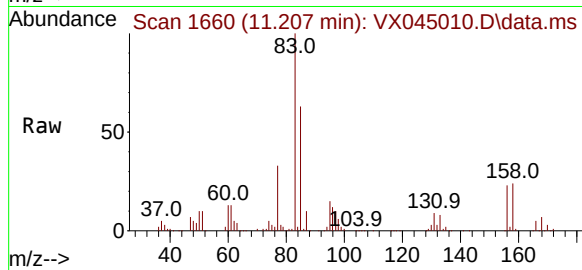
120 26.1 18.4 34.2





#71  
1,1,2,2-Tetrachloroethane  
Concen: 52.096 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

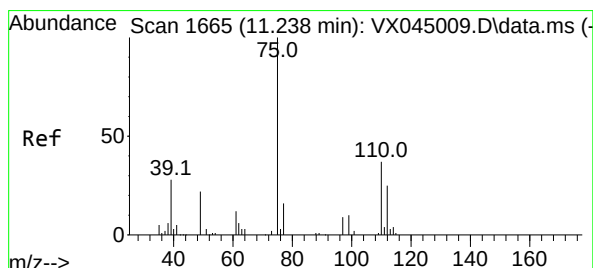
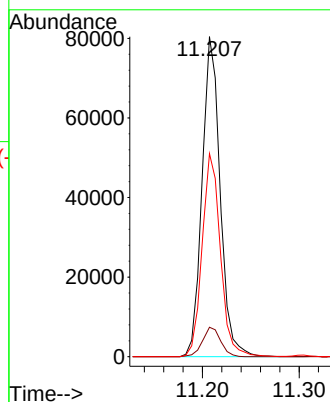
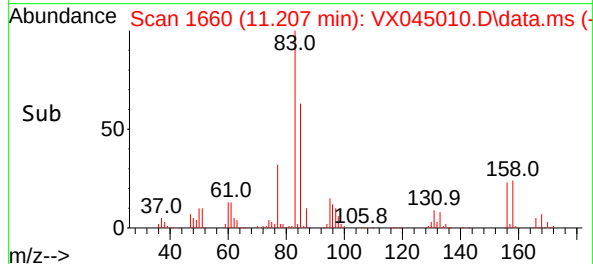
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion: 83 Resp: 10466  
Ion Ratio Lower Upper  
83 100  
131 9.3 4.8 14.3  
85 64.2 32.3 96.8

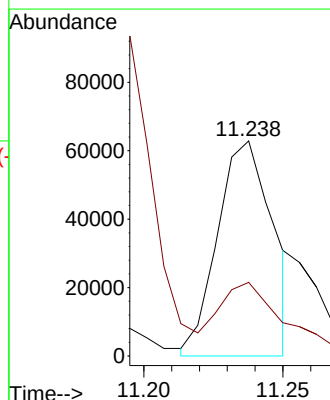
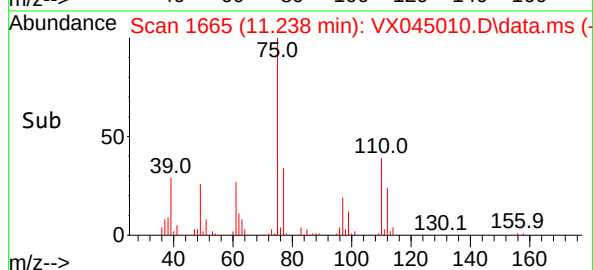
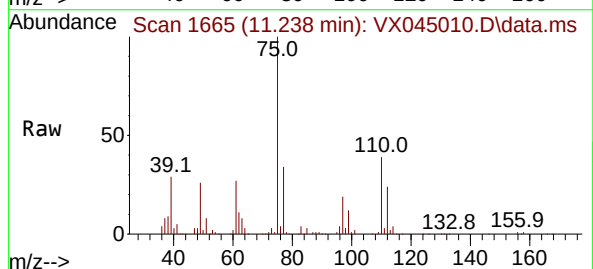
Manual Integrations  
APPROVED

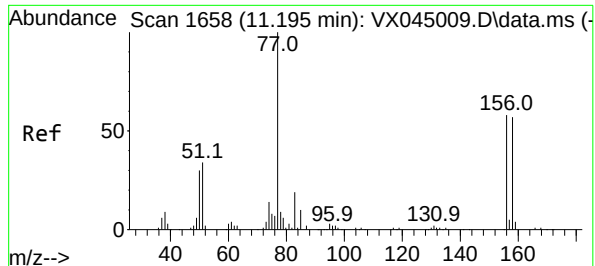
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 52.499 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

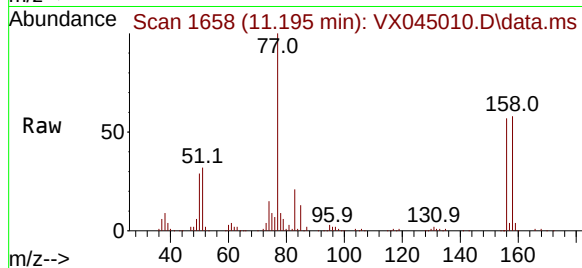
Tgt Ion: 75 Resp: 86752  
Ion Ratio Lower Upper  
75 100  
77 41.5 0.0 84.0





#73  
Bromobenzene  
Concen: 51.338 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

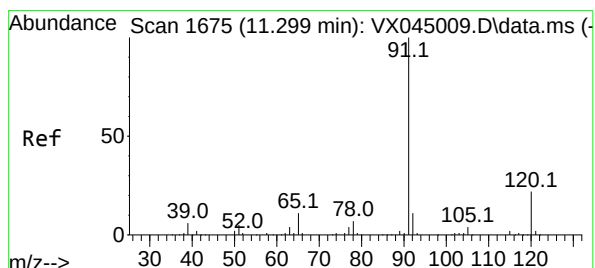
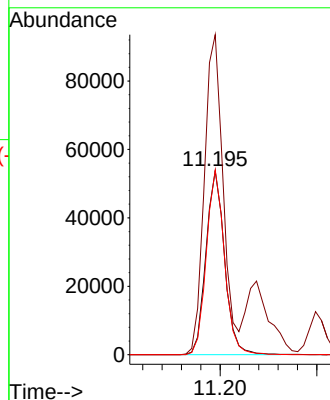
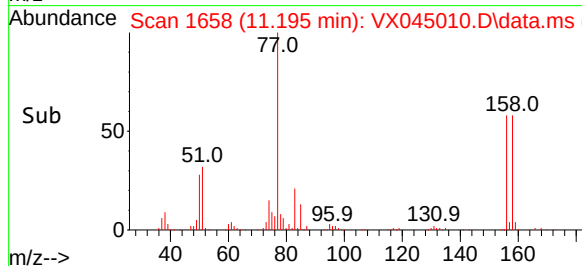
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:156 Resp: 7220  
Ion Ratio Lower Upper  
156 100  
77 174.9 0.0 347.2  
158 97.7 0.0 197.6

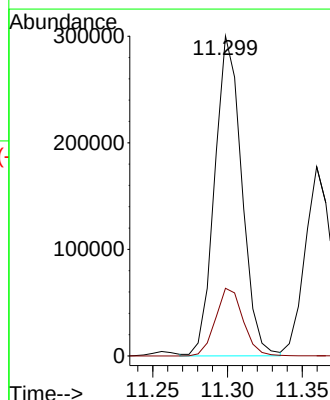
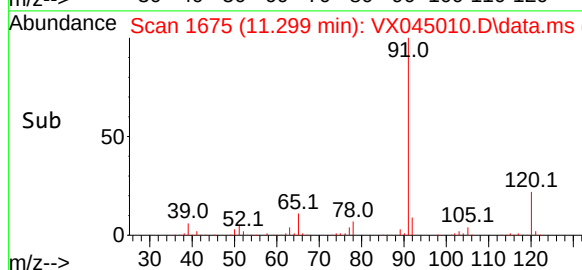
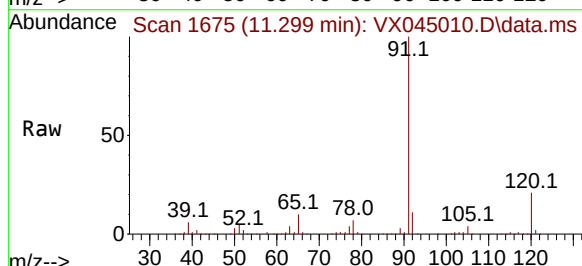
Manual Integrations  
APPROVED

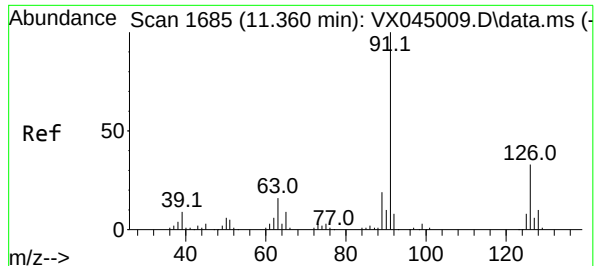
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#74  
n-propylbenzene  
Concen: 51.970 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 377855  
Ion Ratio Lower Upper  
91 100  
120 21.6 0.0 44.2





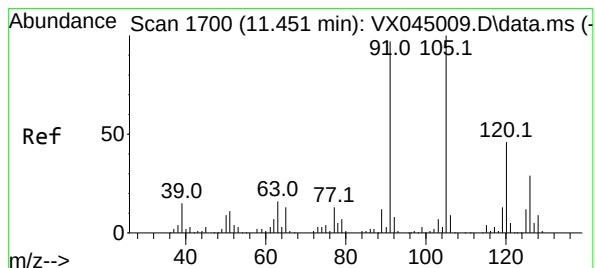
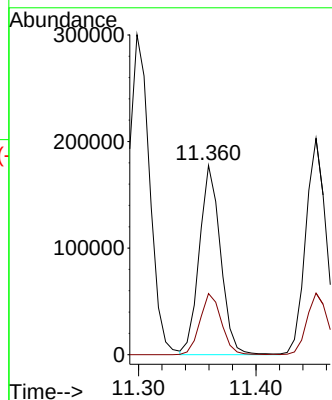
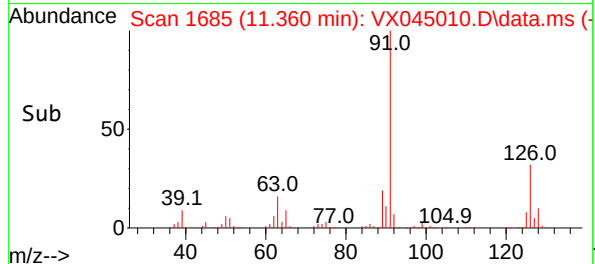
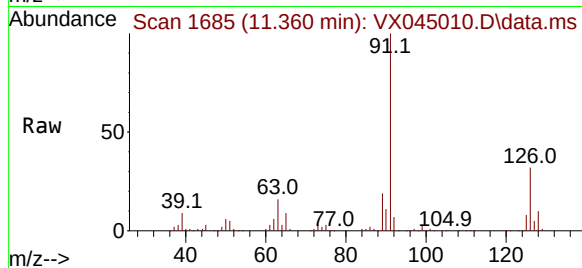
#75  
2-Chlorotoluene  
Concen: 50.885 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050

Tgt Ion: 91 Resp: 22366  
Ion Ratio Lower Upper  
91 100  
126 32.5 0.0 65.4

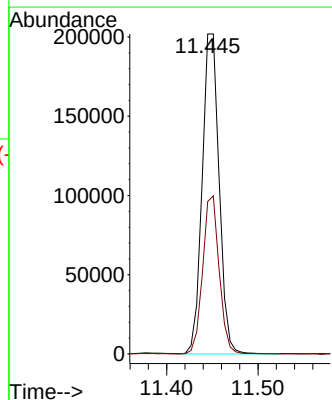
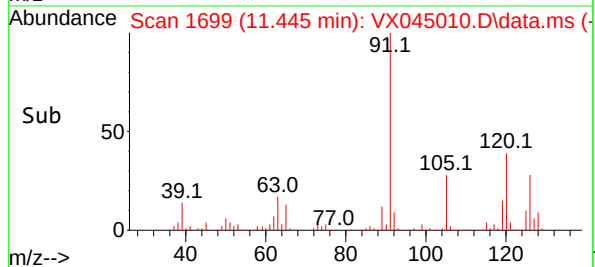
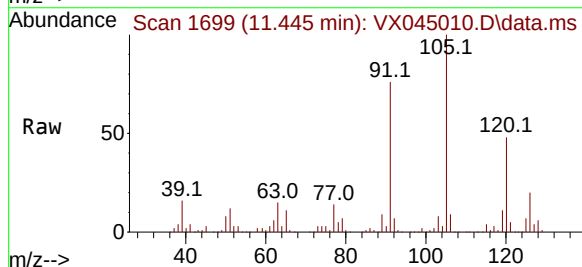
Manual Integrations  
APPROVED

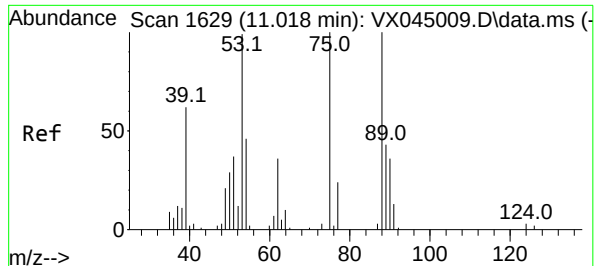
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 51.669 ug/l  
RT: 11.445 min Scan# 1699  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion:105 Resp: 260432  
Ion Ratio Lower Upper  
105 100  
120 48.0 0.0 94.4





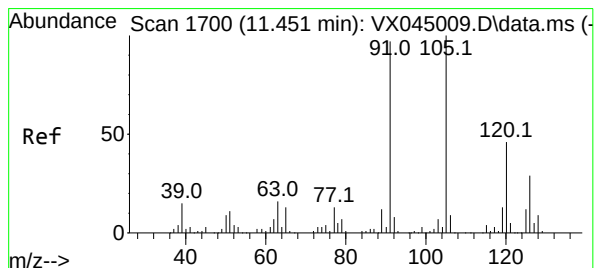
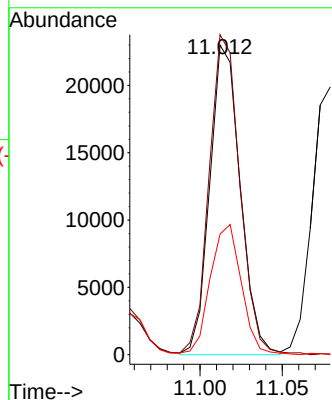
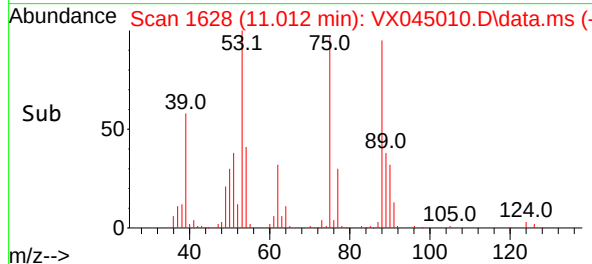
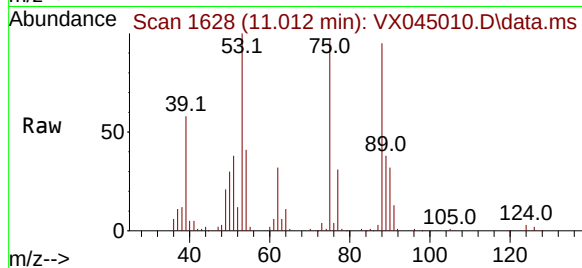
#77  
t-1,4-Dichloro-2-butene  
Concen: 53.302 ug/l  
RT: 11.012 min Scan# 1628  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 103.4 | 49.8  | 149.4 |
| 89      | 38.7  | 21.4  | 64.2  |

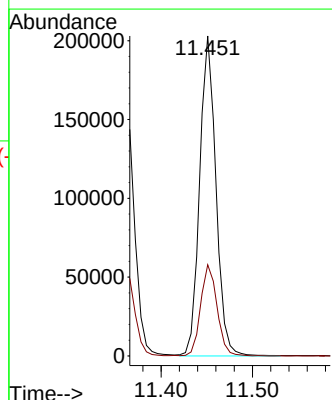
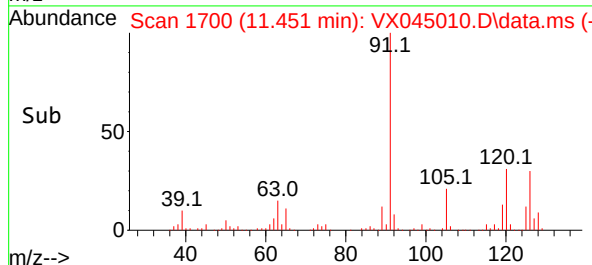
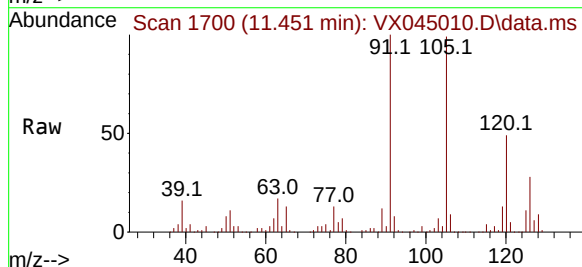
Manual Integrations  
APPROVED

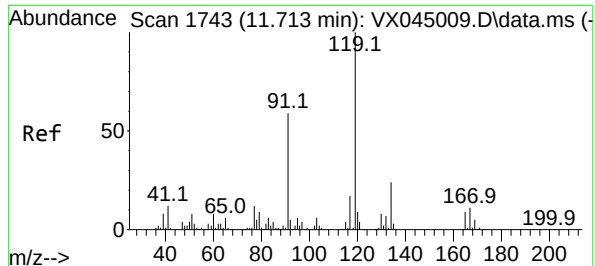
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#78  
4-Chlorotoluene  
Concen: 51.217 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 28.7  | 0.0   | 58.0  |





#79

tert-butylbenzene

Concen: 52.144 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion:119 Resp: 26481

Ion Ratio Lower Upper

119 100

91 58.7 0.0 120.6

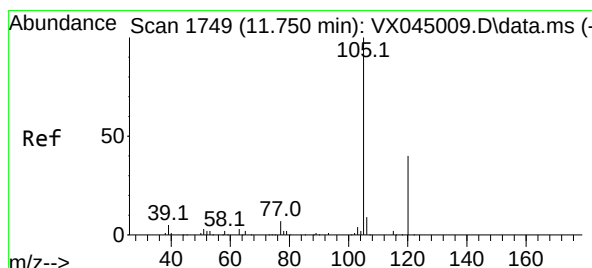
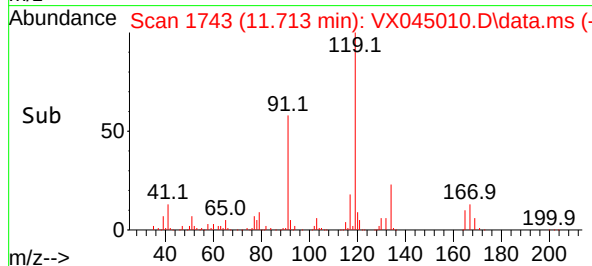
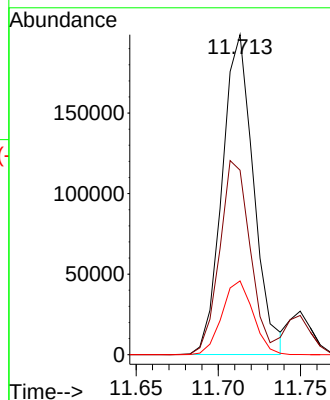
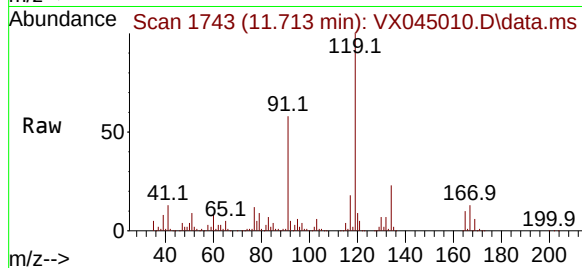
134 22.8 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#80

1,2,4-Trimethylbenzene

Concen: 52.114 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045010.D

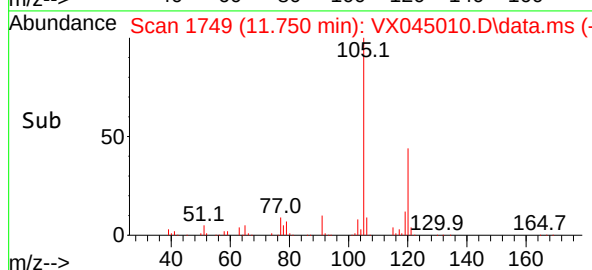
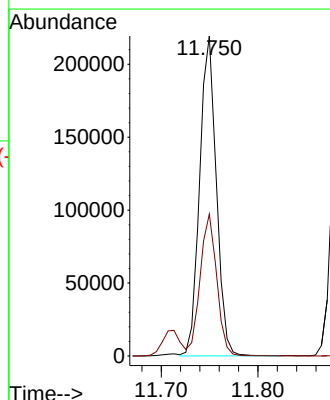
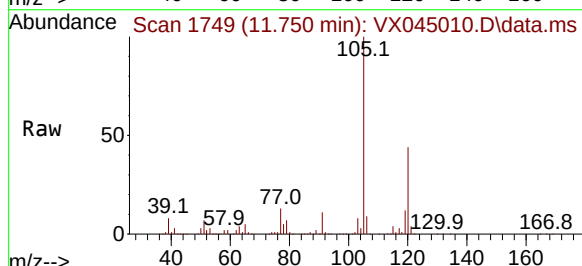
Acq: 21 Feb 2025 10:44

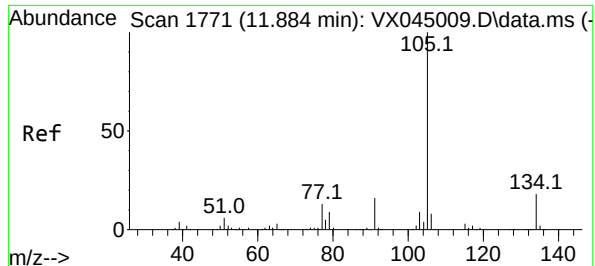
Tgt Ion:105 Resp: 263122

Ion Ratio Lower Upper

105 100

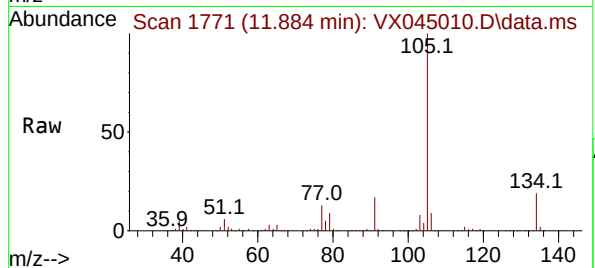
120 44.2 0.0 88.4





#81  
sec-Butylbenzene  
Concen: 51.608 ug/l  
RT: 11.884 min Scan# 1771  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

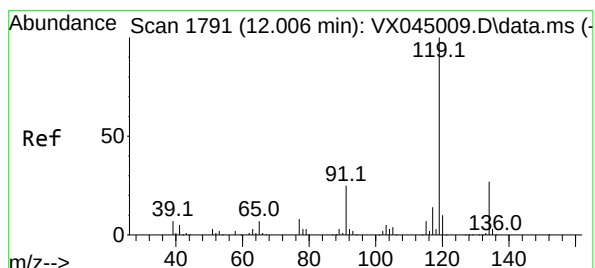
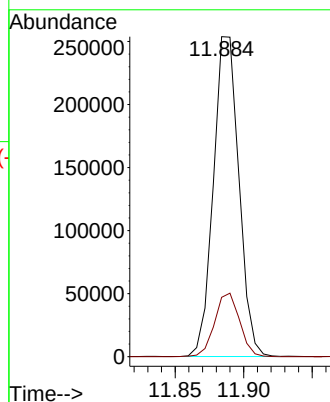
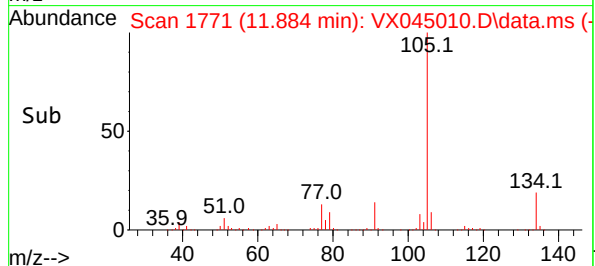
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC050



Tgt Ion:105 Resp: 328940  
Ion Ratio Lower Upper  
105 100  
134 19.4 0.0 39.0

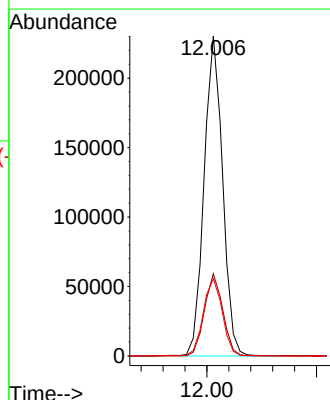
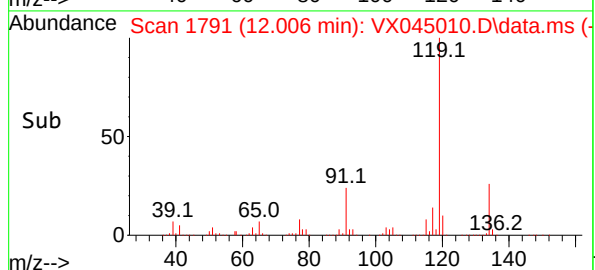
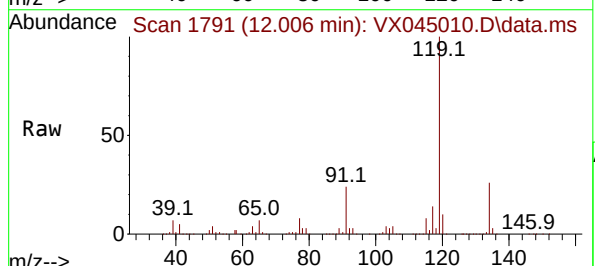
Manual Integrations  
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Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

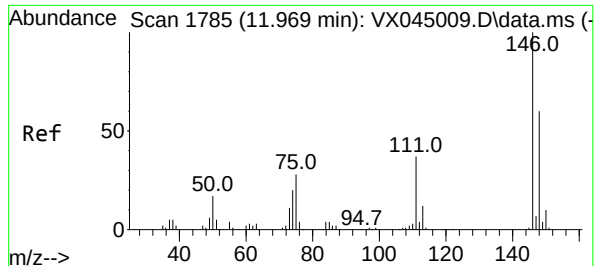


#82  
p-Isopropyltoluene  
Concen: 52.183 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion:119 Resp: 269490  
Ion Ratio Lower Upper  
119 100  
134 25.5 0.0 52.6  
91 24.7 0.0 51.0







#83

1,3-Dichlorobenzene

Concen: 51.467 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 134689

Ion Ratio Lower Upper

146 100

111 41.8 20.2 60.5

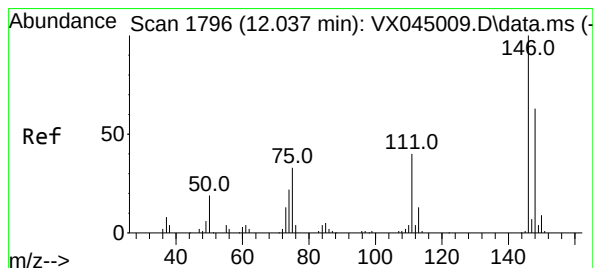
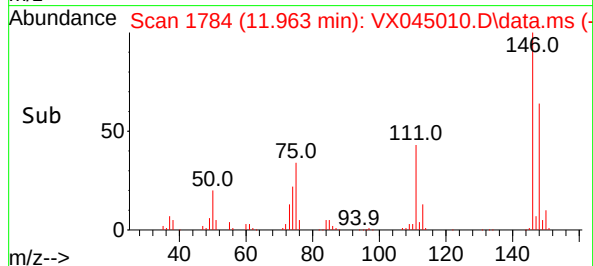
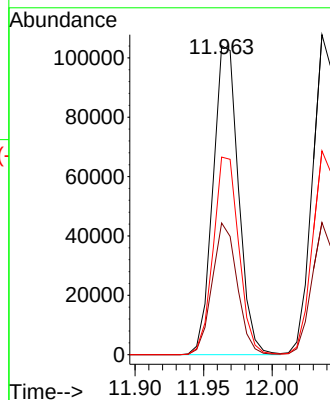
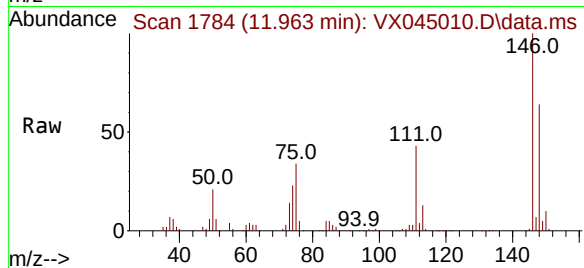
148 64.2 31.2 93.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#84

1,4-Dichlorobenzene

Concen: 52.490 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

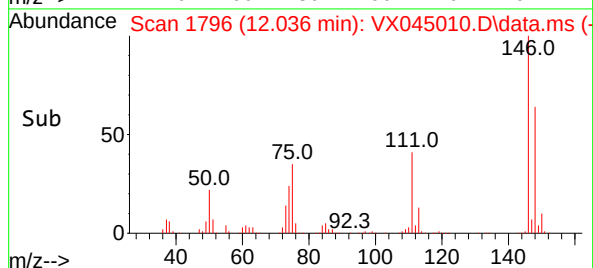
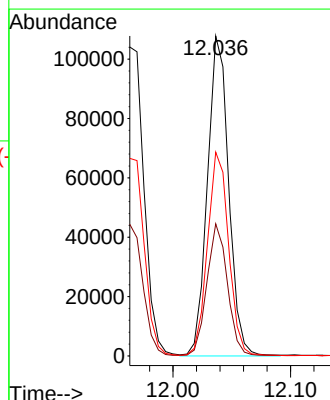
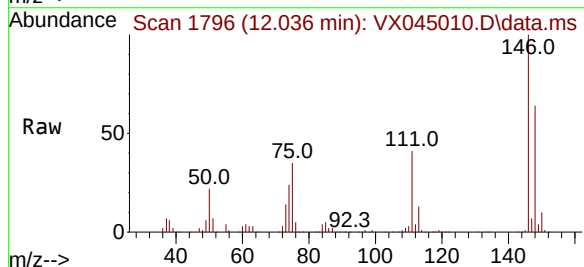
Tgt Ion:146 Resp: 135436

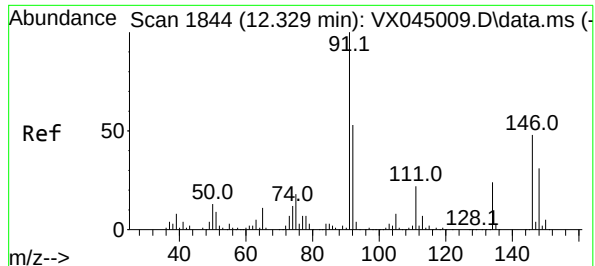
Ion Ratio Lower Upper

146 100

111 40.2 20.4 61.2

148 63.8 31.8 95.4





#85

n-Butylbenzene

Concen: 52.851 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

Tgt Ion: 91 Resp: 24924

Ion Ratio Lower Upper

91 100

92 53.9 0.0 105.2

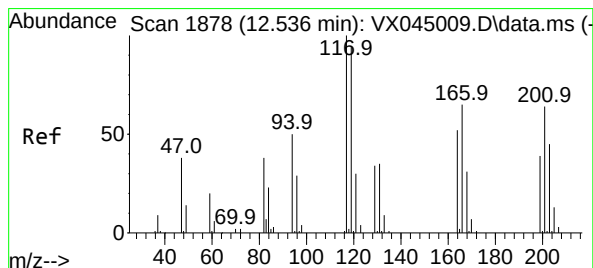
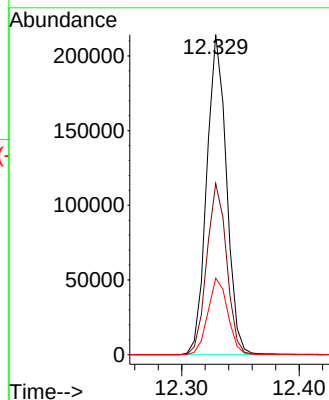
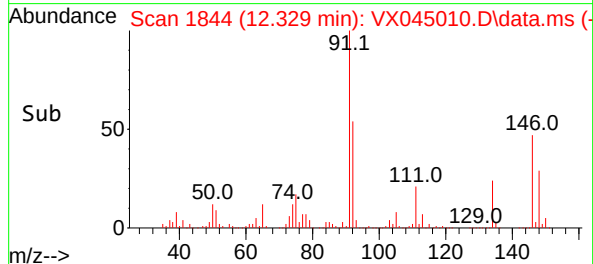
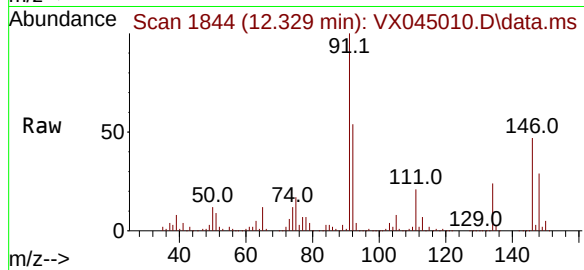
134 24.2 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#86

Hexachloroethane

Concen: 52.555 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045010.D

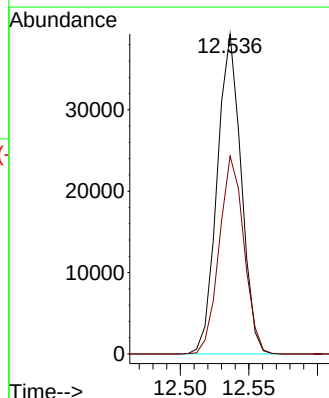
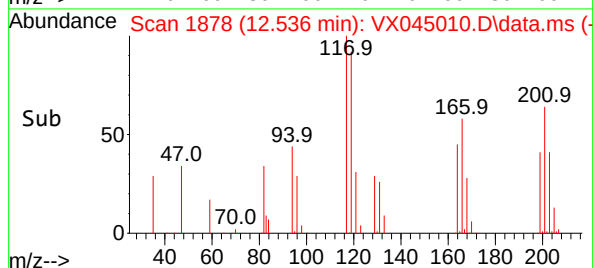
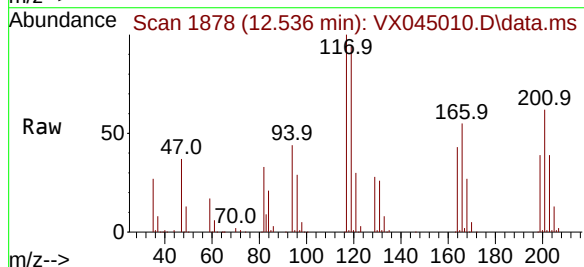
Acq: 21 Feb 2025 10:44

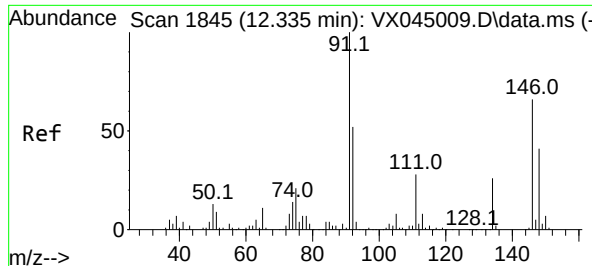
Tgt Ion:117 Resp: 47866

Ion Ratio Lower Upper

117 100

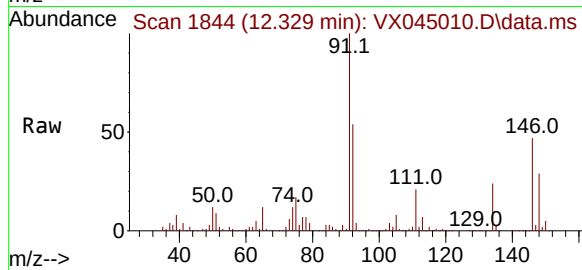
201 63.8 32.6 97.7





#87  
1,2-Dichlorobenzene  
Concen: 51.846 ug/l  
RT: 12.329 min Scan# 1845  
Delta R.T. -0.006 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

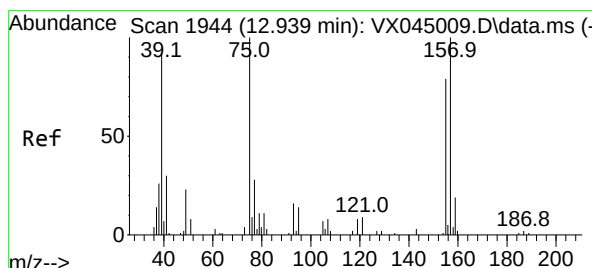
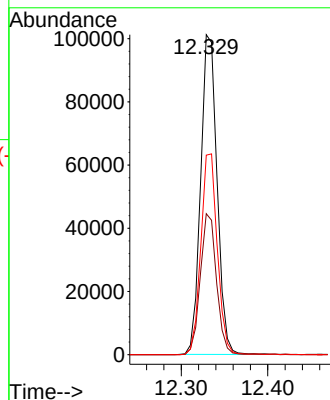
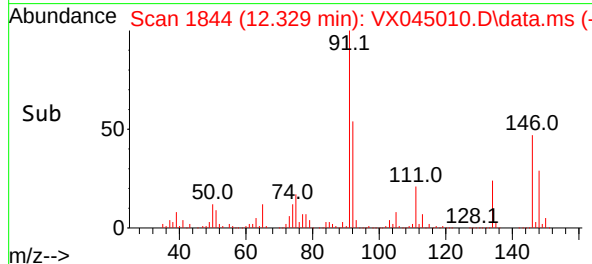
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050



Tgt Ion:146 Resp: 13312  
Ion Ratio Lower Upper  
146 100  
111 43.5 21.7 65.1  
148 63.0 31.8 95.4

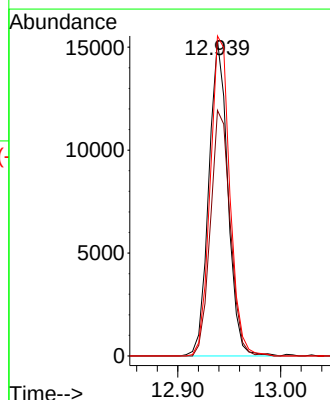
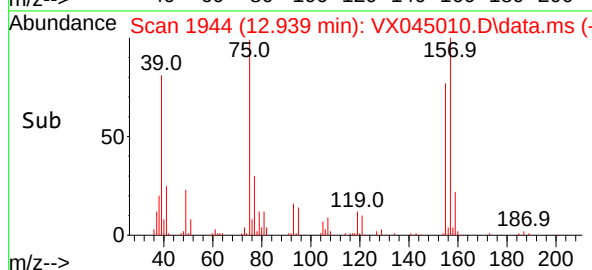
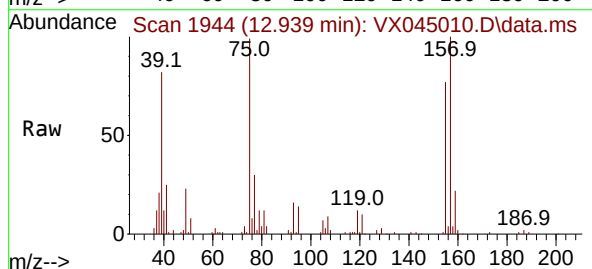
Manual Integrations  
APPROVED

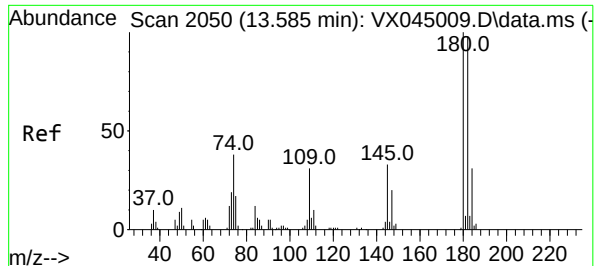
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 50.807 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 19763  
Ion Ratio Lower Upper  
75 100  
155 80.4 66.2 99.4  
157 104.4 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 51.710 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC050

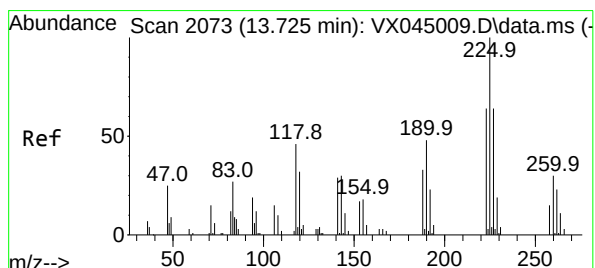
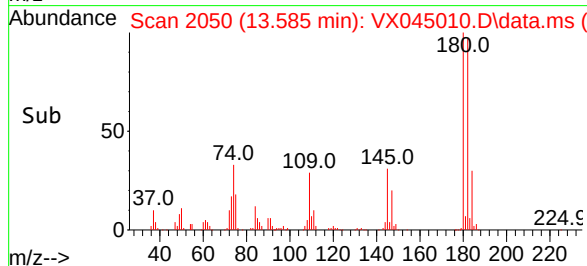
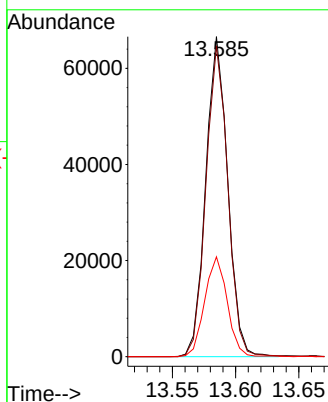
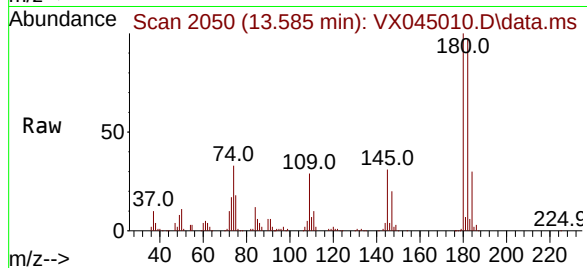
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 80472      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.1  | 77.7 116.5 |
| 145         | 31.9  | 25.8 38.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#90

Hexachlorobutadiene

Concen: 50.003 ug/l

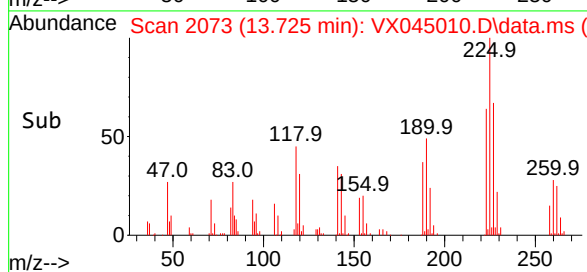
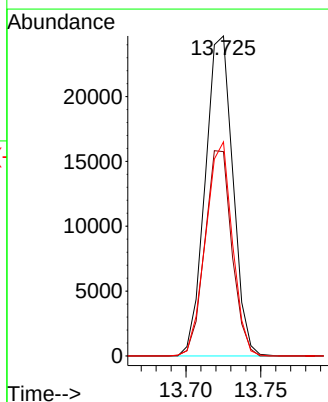
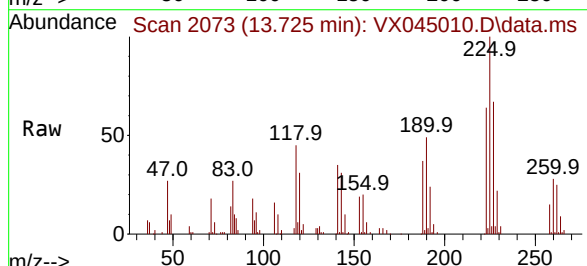
RT: 13.725 min Scan# 2073

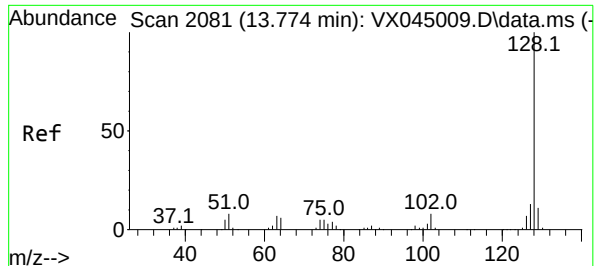
Delta R.T. -0.000 min

Lab File: VX045010.D

Acq: 21 Feb 2025 10:44

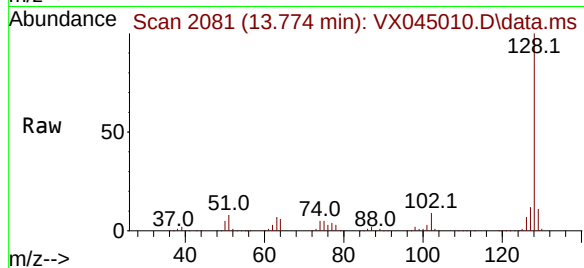
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 31734     |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 62.7  | 0.0 123.4 |
| 227         | 64.6  | 0.0 127.4 |





#91  
Naphthalene  
Concen: 52.634 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

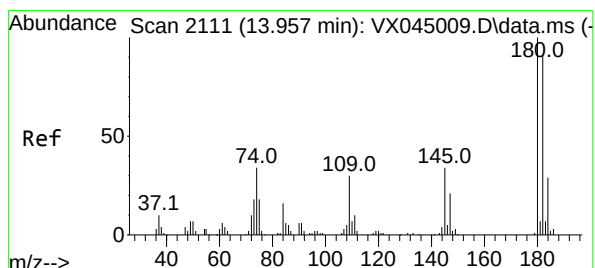
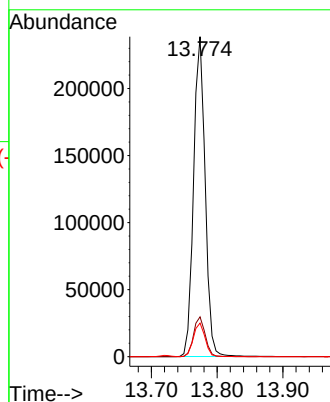
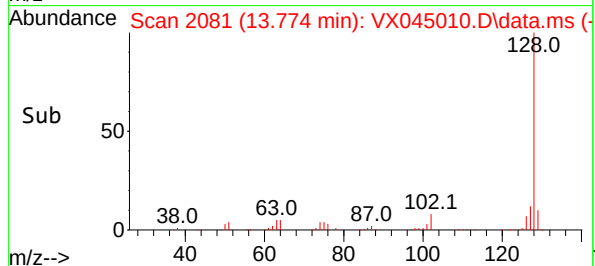
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC050



Tgt Ion:128 Resp: 28882  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 10.7 8.7 13.1

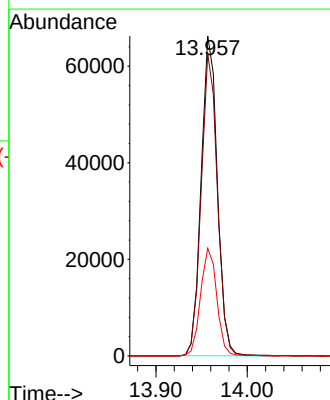
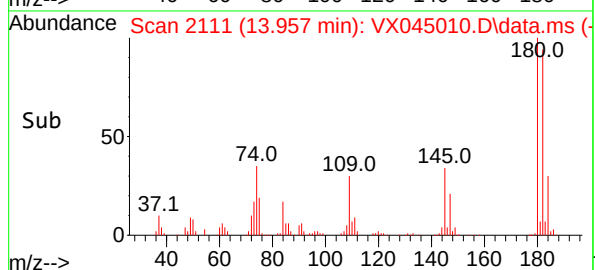
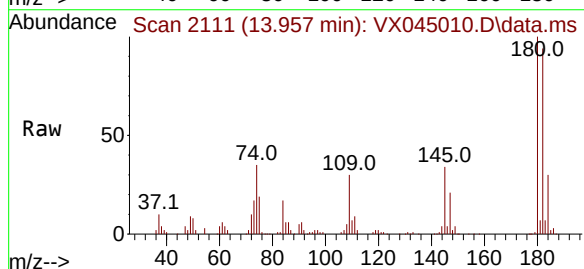
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 51.015 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX045010.D  
Acq: 21 Feb 2025 10:44

Tgt Ion:180 Resp: 81734  
Ion Ratio Lower Upper  
180 100  
182 94.3 0.0 186.6  
145 33.7 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045011.D  
 Acq On : 21 Feb 2025 11:07  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
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Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:54 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.891          | 128  | 17332               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 98516               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 88321               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 50601               | 30.059  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 100.200% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 49683               | 30.096  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 100.333% |         |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 148078              | 30.306  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 101.033% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 140259              | 95.997  | ug/l   | 97       |
| 3) Chloromethane             | 1.294          | 50   | 166114              | 94.924  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 163236              | 96.669  | ug/l   | 99       |
| 5) Bromomethane              | 1.593          | 94   | 54558               | 92.819  | ug/l   | 95       |
| 6) Chloroethane              | 1.666          | 64   | 84688               | 92.599  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 220045              | 96.956  | ug/l   | 96       |
| 8) Diethyl Ether             | 2.130          | 74   | 82964               | 96.616  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 129494              | 96.068  | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.313          | 96   | 130666              | 99.244  | ug/l   | 94       |
| 11) Methyl Iodide            | 2.447          | 142  | 161844              | 108.607 | ug/l   | 98       |
| 12) Methyl Acetate           | 2.703          | 43   | 150865              | 98.675  | ug/l   | 99       |
| 13) Acrolein                 | 2.233          | 56   | 156104              | 509.382 | ug/l   | 97       |
| 14) Acrylonitrile            | 3.062          | 53   | 370914              | 496.667 | ug/l   | 99       |
| 15) Acetone                  | 2.380          | 58   | 97560               | 476.326 | ug/l   | 98       |
| 16) Carbon Disulfide         | 2.502          | 76   | 371874              | 99.576  | ug/l   | 100      |
| 17) Allyl chloride           | 2.654          | 41   | 246065              | 99.923  | ug/l   | 98       |
| 18) Methylene Chloride       | 2.782          | 84   | 144938              | 97.871  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 3.087          | 96   | 130562              | 98.015  | ug/l   | 97       |
| 20) Diisopropyl ether        | 3.757          | 45   | 470167              | 99.355  | ug/l # | 82       |
| 21) 1,1-Dichloroethane       | 3.605          | 63   | 258430              | 98.196  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.477          | 96   | 156933              | 98.314  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.989          | 59   | 125570              | 481.055 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 426471              | 99.244  | ug/l   | 99       |
| 25) Chloroform               | 5.080          | 83   | 248045              | 97.577  | ug/l   | 99       |
| 26) Cyclohexane              | 5.458          | 56   | 236876              | 97.509  | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 5.684          | 75   | 174620              | 96.357  | ug/l   | 100      |
| 30) 2-Butanone               | 4.550          | 43   | 505036              | 482.489 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 202370              | 98.758  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 211623              | 96.379  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.666          | 117  | 178685              | 96.425  | ug/l   | 99       |
| 34) Benzene                  | 6.031          | 78   | 548369              | 96.492  | ug/l   | 99       |
| 35) Methacrylonitrile        | 4.910          | 41   | 111962              | 99.957  | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 189437              | 97.362  | ug/l   | 98       |
| 37) Trichloroethene          | 7.117          | 130  | 128134              | 96.375  | ug/l   | 97       |
| 38) Methylcyclohexane        | 7.373          | 83   | 237839              | 97.744  | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 7.421          | 63   | 140148              | 99.193  | ug/l   | 98       |
| 40) Dibromomethane           | 7.574          | 93   | 97805               | 96.465  | ug/l   | 99       |
| 41) Bromodichloromethane     | 7.818          | 83   | 197339              | 97.929  | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.715          | 43   | 2042535             | 502.855 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045011.D  
 Acq On : 21 Feb 2025 11:07  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:54 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 199092   | 101.424  | ug/l  | 97       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 329903   | 102.113  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 63728    | 1897.493 | ug/l  | 98       |
| 46) Methyl methacrylate       | 7.690  | 41   | 162523   | 102.589  | ug/l  | 100      |
| 47) n-amyl Acetate            | 10.842 | 43   | 282922   | 100.917  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 202810   | 104.416  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 223833   | 101.800  | ug/l  | 100      |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 127690   | 96.553   | ug/l  | 95       |
| 51) Ethyl methacrylate        | 9.110  | 69   | 214475   | 103.117  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 222694   | 96.102   | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 144384   | 98.713   | ug/l  | 97       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 130524   | 97.194   | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 535473   | 501.334  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 92416    | 100.830  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 983713   | 489.624  | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 708849   | 488.118  | ug/l  | 98       |
| 61) Tetrachloroethene         | 9.269  | 164  | 104854   | 96.410   | ug/l  | 97       |
| 62) Toluene                   | 8.714  | 91   | 575772   | 98.410   | ug/l  | 99       |
| 64) Chlorobenzene             | 10.073 | 112  | 359123   | 99.055   | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 117602   | 98.304   | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 641324   | 100.122  | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 470322   | 197.072  | ug/l  | 98       |
| 68) o-Xylene                  | 10.640 | 106  | 230392   | 98.392   | ug/l  | 100      |
| 69) Styrene                   | 10.653 | 104  | 387436   | 99.067   | ug/l  | 98       |
| 70) Isopropylbenzene          | 10.957 | 105  | 596402   | 98.698   | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 190591   | 95.916   | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 158994m  | 97.283   | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 136270   | 97.960   | ug/l  | 98       |
| 74) n-propylbenzene           | 11.299 | 91   | 717361   | 99.759   | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 421424   | 96.938   | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 487050   | 97.701   | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 59873    | 108.886  | ug/l  | 98       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 477861   | 98.607   | ug/l  | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 490816   | 97.716   | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 486770   | 97.478   | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.890 | 105  | 616448   | 97.788   | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 510223   | 99.893   | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.963 | 146  | 250755   | 96.883   | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 249668   | 97.834   | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 476457   | 102.150  | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 92493    | 102.679  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 240056   | 94.528   | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 37960    | 98.669   | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 158594   | 103.039  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 60565    | 96.489   | ug/l  | 98       |
| 91) Naphthalene               | 13.774 | 128  | 548026   | 100.977  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 158881   | 100.267  | ug/l  | 100      |

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

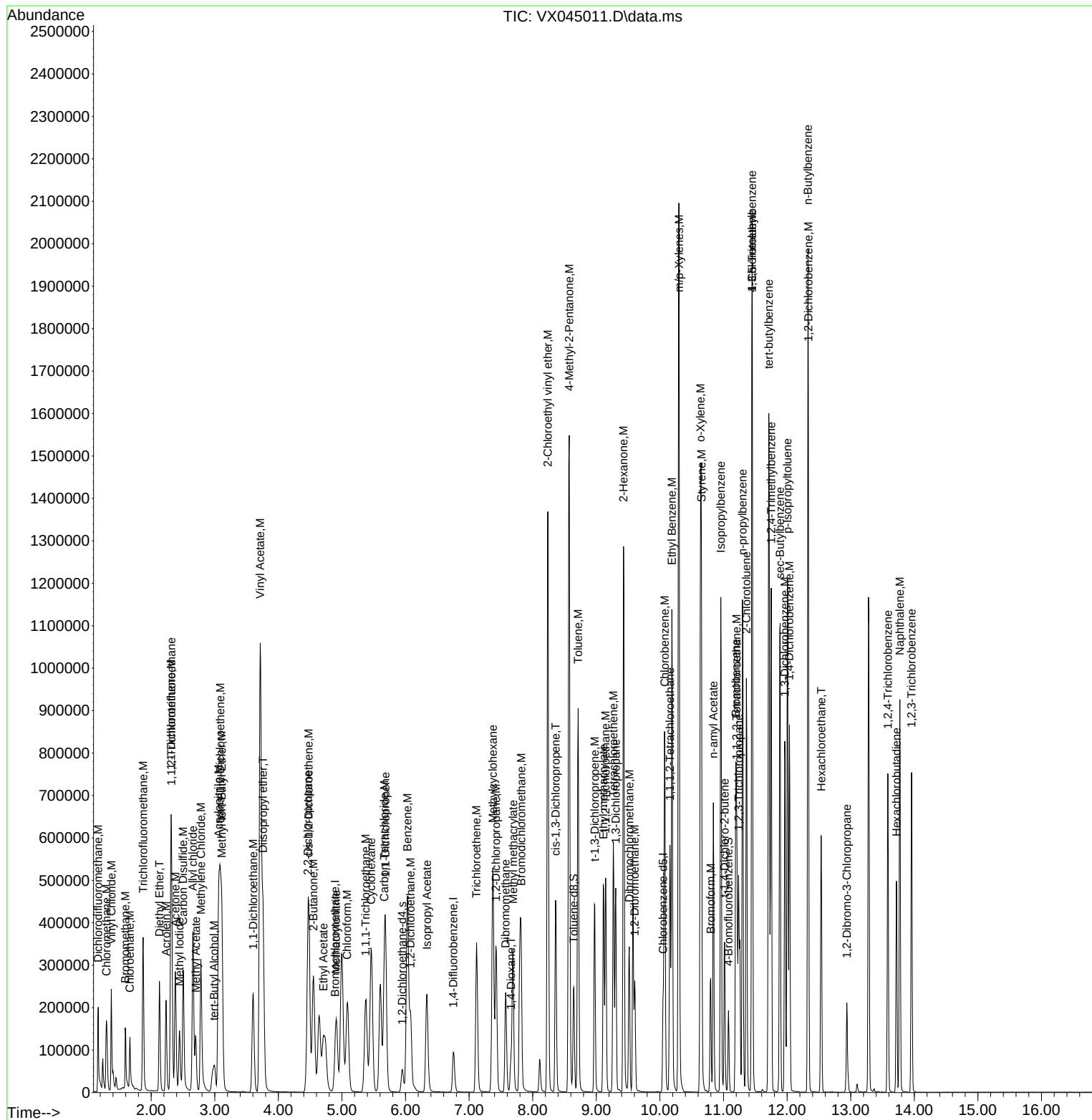
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Data File : VX045011.D  
Acq On    : 21 Feb 2025  11:07  
Operator  : JC/MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 5      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VSTDICC100

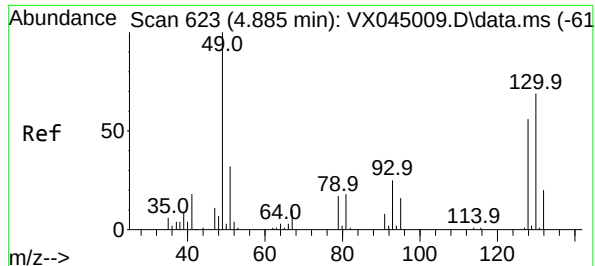
## Manual Integrations

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:54 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 00:21:26 2025  
Response via : Initial Calibration

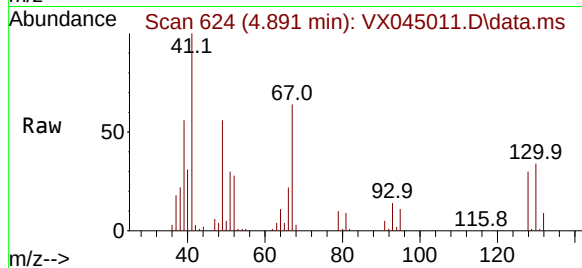






#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.891 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

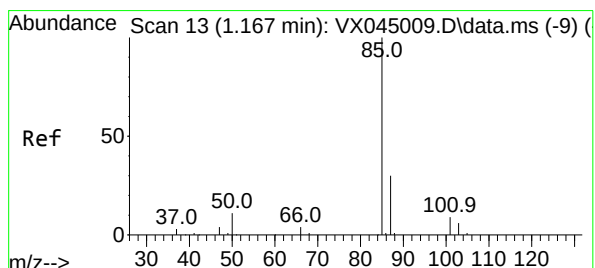
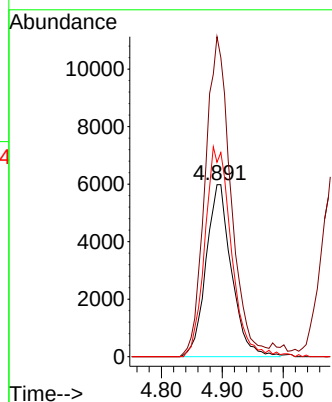
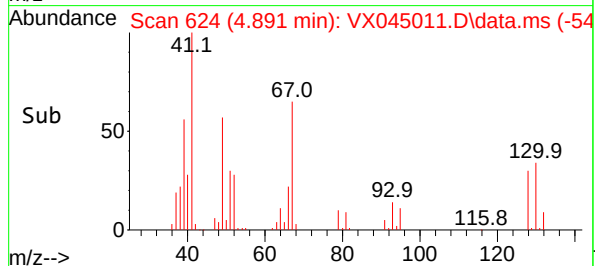
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:128 Resp: 1733  
Ion Ratio Lower Upper  
128 100  
49 189.4 0.0 449.7  
130 126.9 0.0 312.7

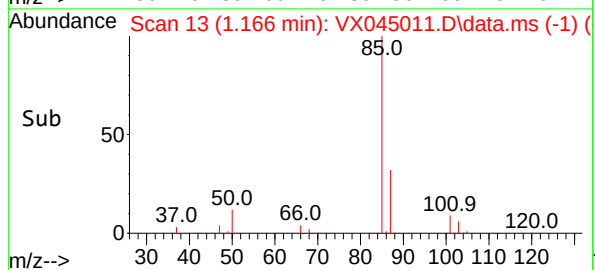
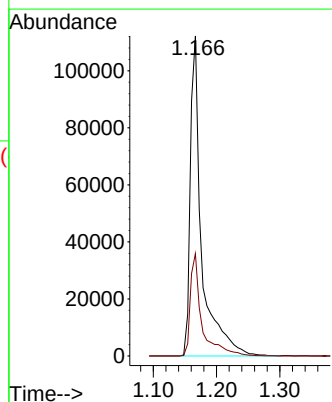
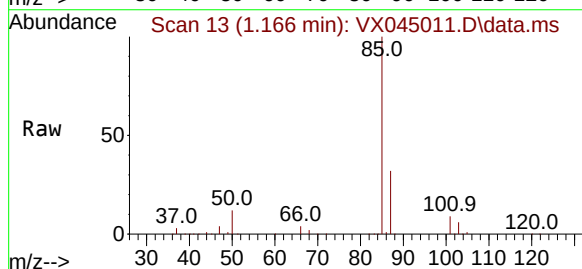
Manual Integrations  
APPROVED

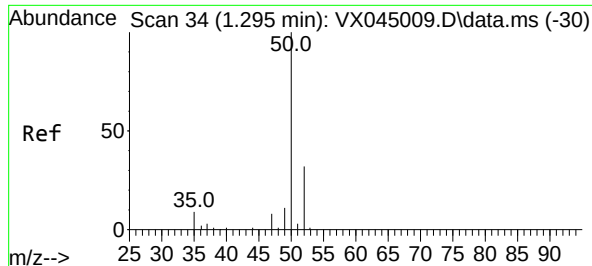
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#2  
Dichlorodifluoromethane  
Concen: 95.997 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

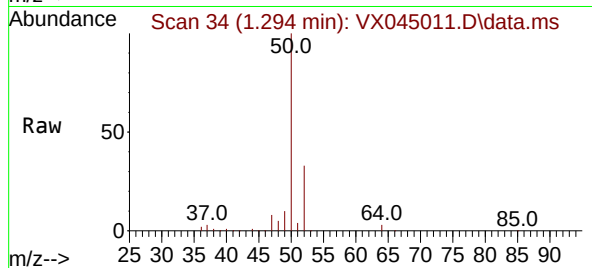
Tgt Ion: 85 Resp: 140259  
Ion Ratio Lower Upper  
85 100  
87 32.0 15.1 45.3





#3  
Chloromethane  
Concen: 94.924 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

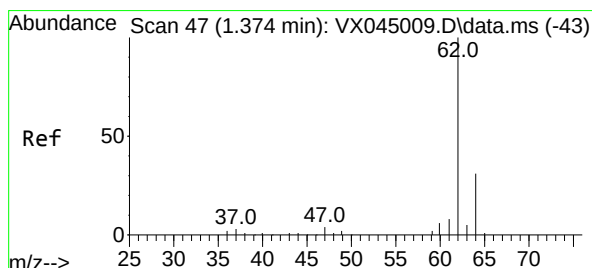
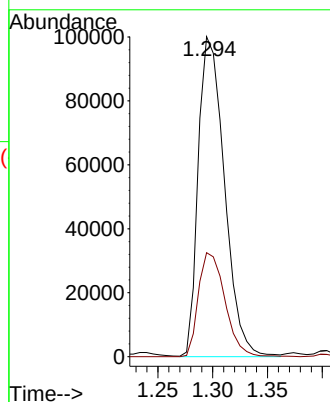
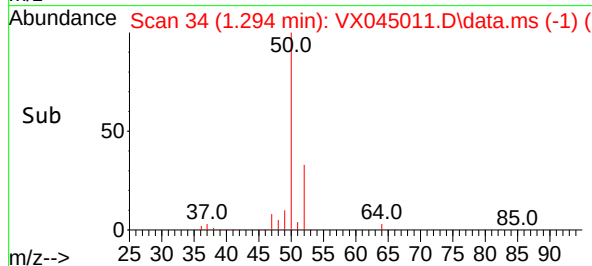
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 50 Resp: 166114  
Ion Ratio Lower Upper  
50 100  
52 32.6 25.7 38.5

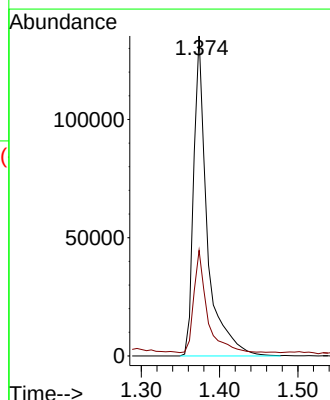
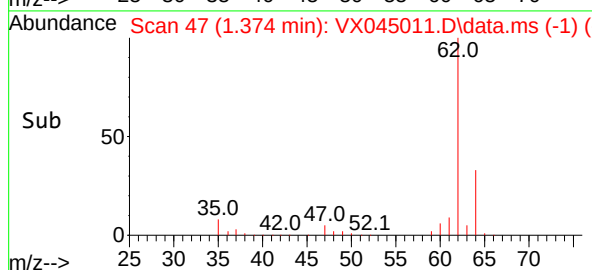
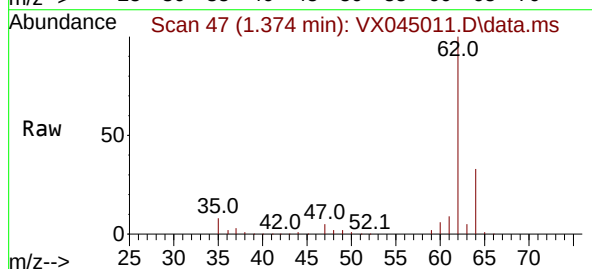
Manual Integrations  
APPROVED

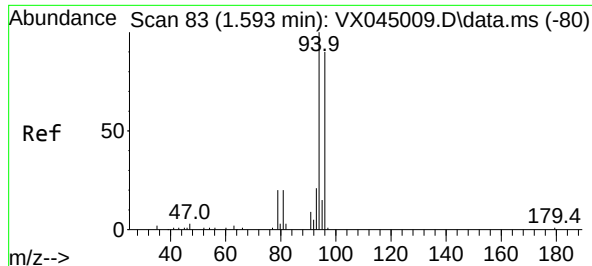
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#4  
Vinyl Chloride  
Concen: 96.669 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

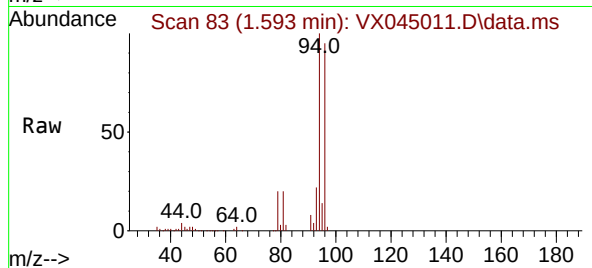
Tgt Ion: 62 Resp: 163236  
Ion Ratio Lower Upper  
62 100  
64 31.9 25.1 37.7





#5  
Bromomethane  
Concen: 92.819 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

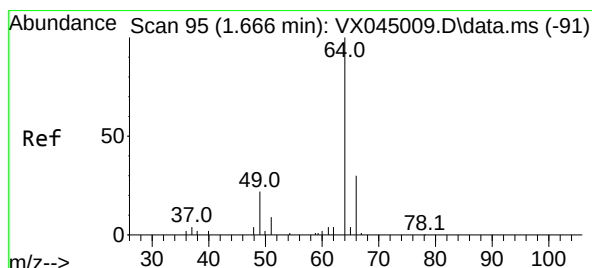
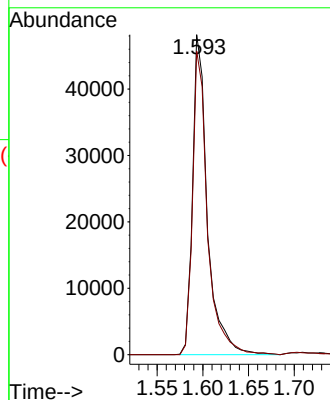
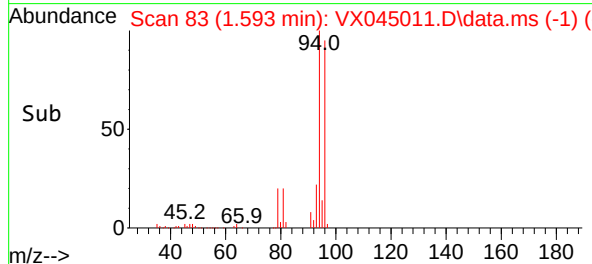
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 94 Resp: 5455  
Ion Ratio Lower Upper  
94 100  
96 94.9 72.2 108.4

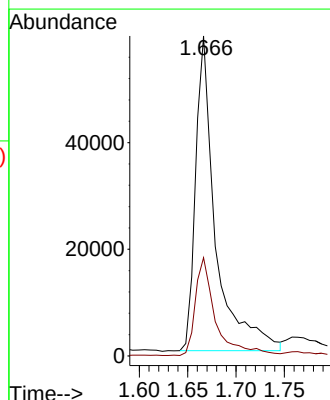
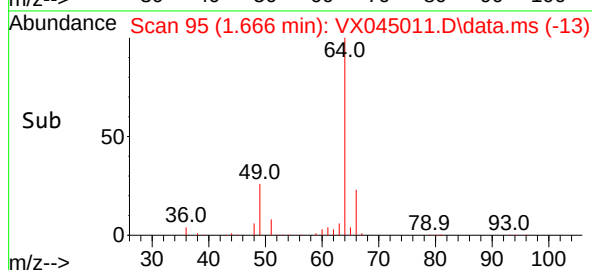
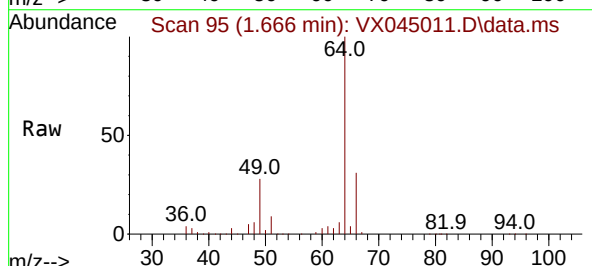
Manual Integrations  
APPROVED

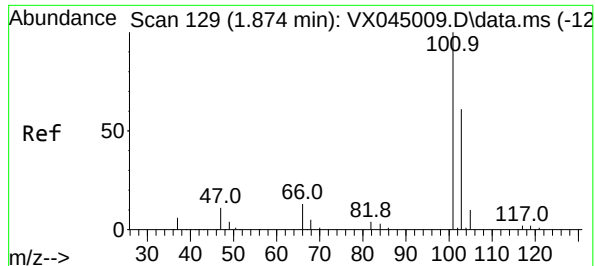
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#6  
Chloroethane  
Concen: 92.599 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

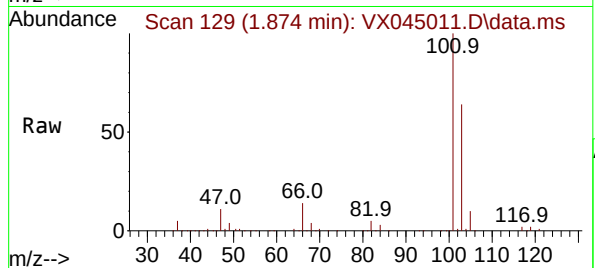
Tgt Ion: 64 Resp: 84688  
Ion Ratio Lower Upper  
64 100  
66 31.1 23.7 35.5





#7  
Trichlorofluoromethane  
Concen: 96.956 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

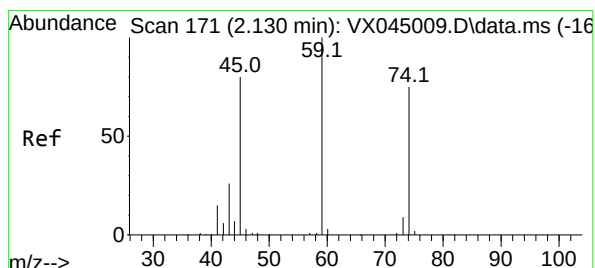
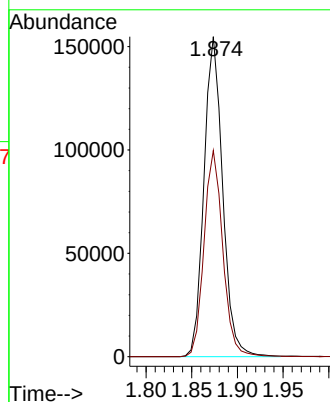
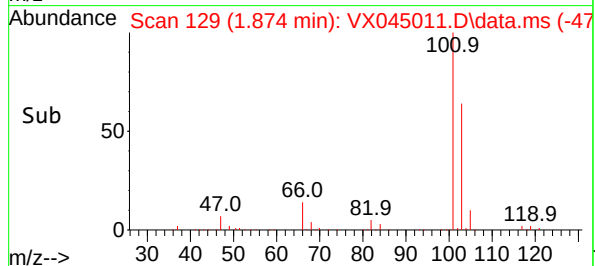
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100



Tgt Ion:101 Resp: 220045  
Ion Ratio Lower Upper  
101 100  
103 64.4 48.8 73.2

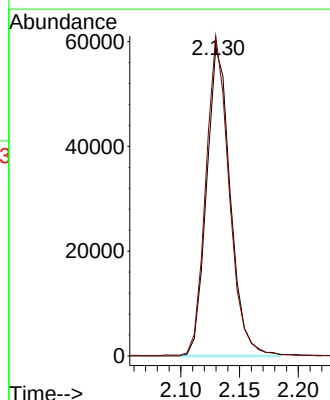
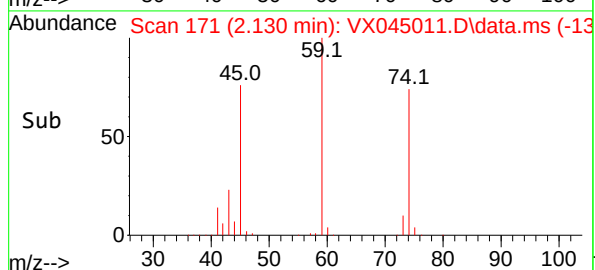
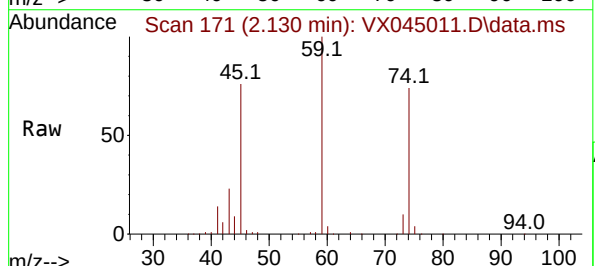
Manual Integrations  
APPROVED

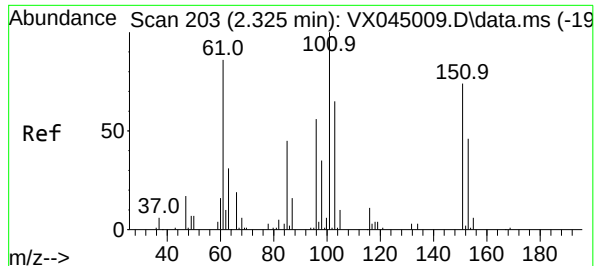
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#8  
Diethyl Ether  
Concen: 96.616 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 74 Resp: 82964  
Ion Ratio Lower Upper  
74 100  
45 100.7 20.8 186.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.068 ug/l

RT: 2.319 min Scan# 203

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

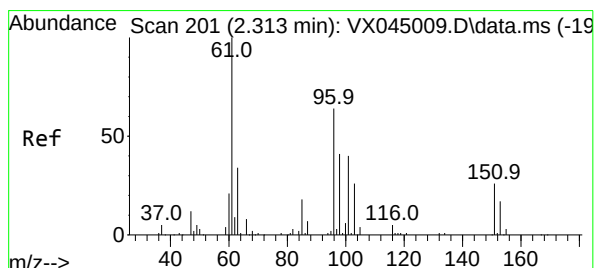
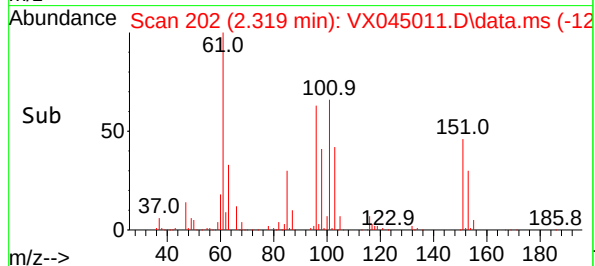
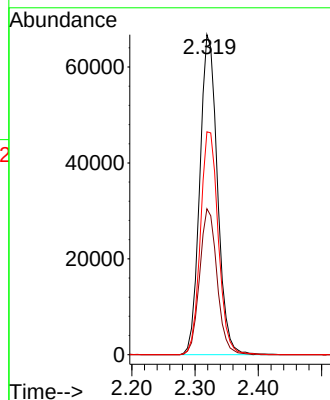
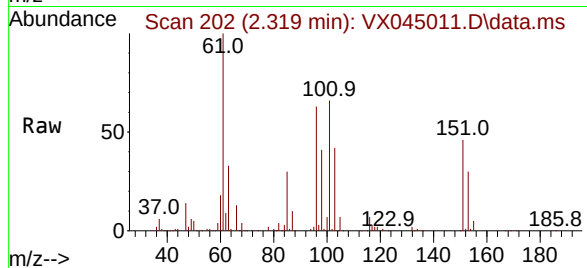
VSTDIC100

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 129494 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 45.0  | 0.0   | 90.6   |
| 151      | 70.6  | 0.0   | 147.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#10

1,1-Dichloroethene

Concen: 99.244 ug/l

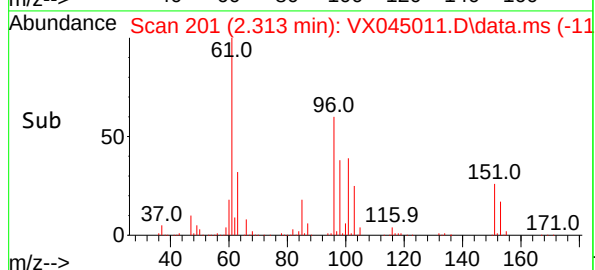
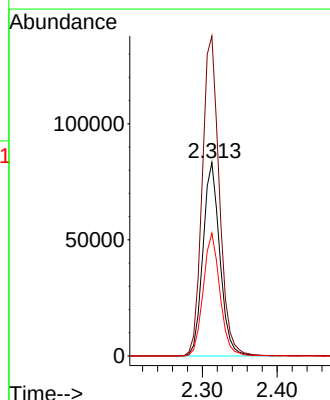
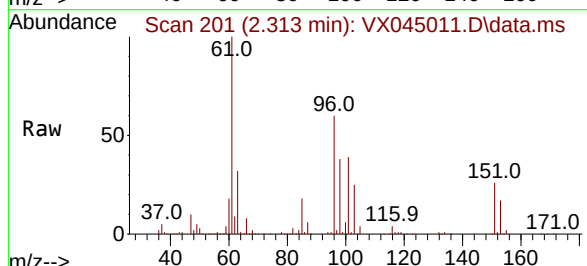
RT: 2.313 min Scan# 201

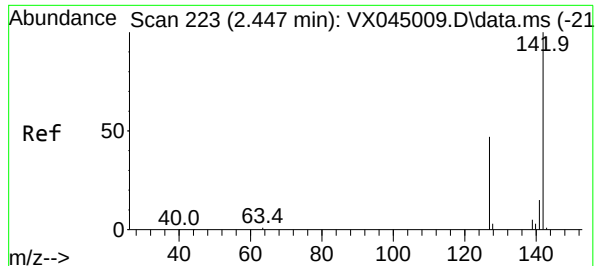
Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

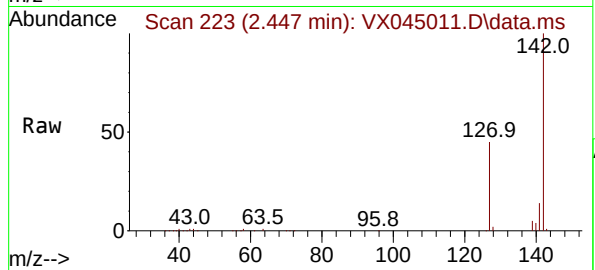
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 130666 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 165.4 | 124.2 | 186.2  |
| 98       | 63.5  | 51.1  | 76.7   |





#11  
Methyl Iodide  
Concen: 108.607 ug/l  
RT: 2.447 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

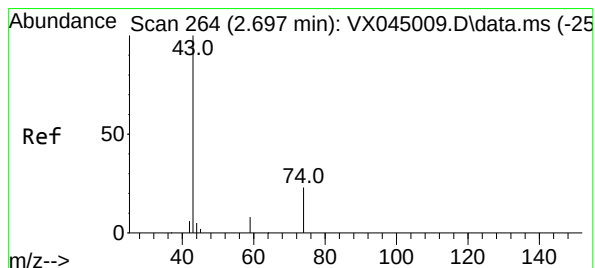
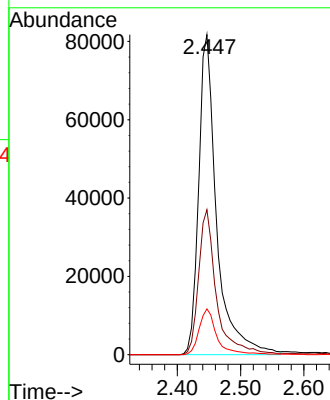
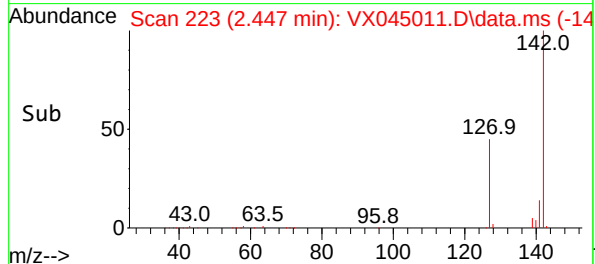
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:142 Resp: 161844  
Ion Ratio Lower Upper  
142 100  
127 45.3 23.3 69.9  
141 14.3 7.5 22.6

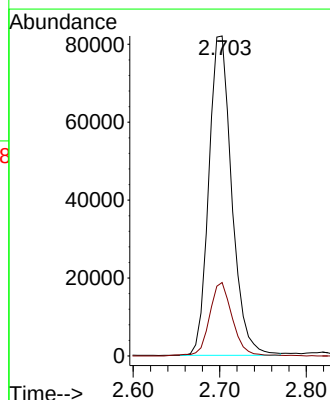
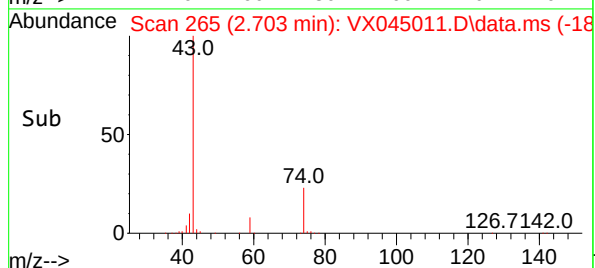
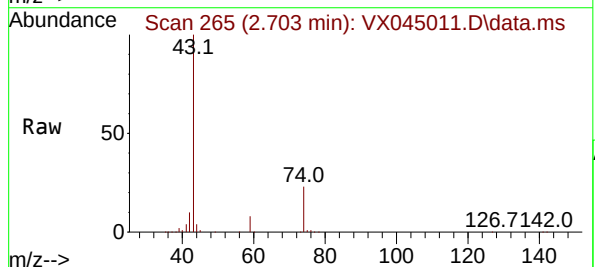
Manual Integrations  
APPROVED

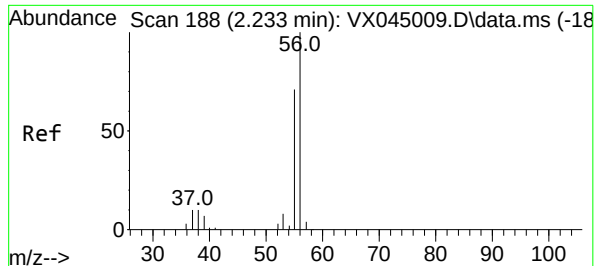
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#12  
Methyl Acetate  
Concen: 98.675 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 150865  
Ion Ratio Lower Upper  
43 100  
74 22.8 17.9 26.9





#13

Acrolein

Concen: 509.382 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 156104

Ion Ratio Lower Upper

56 100

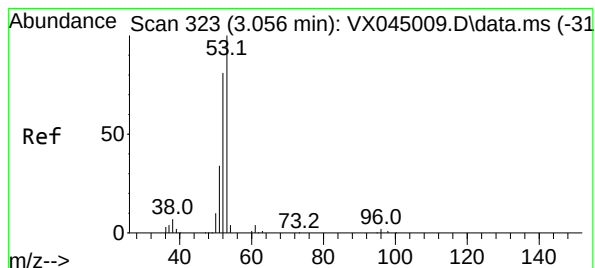
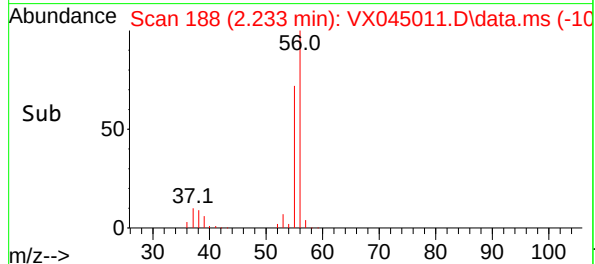
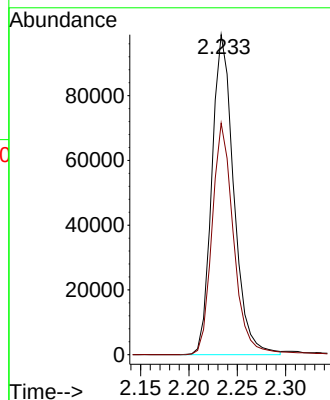
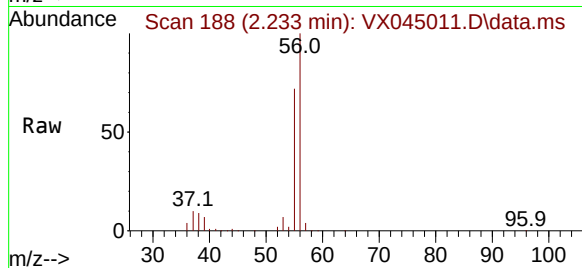
55 71.5 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#14

Acrylonitrile

Concen: 496.667 ug/l

RT: 3.062 min Scan# 324

Delta R.T. 0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

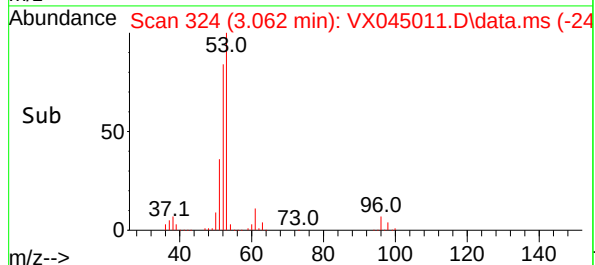
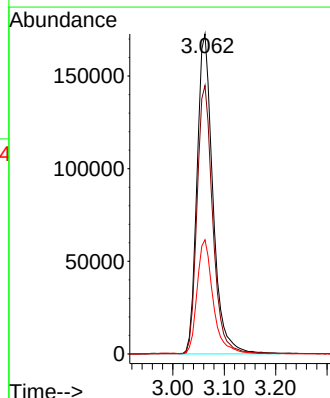
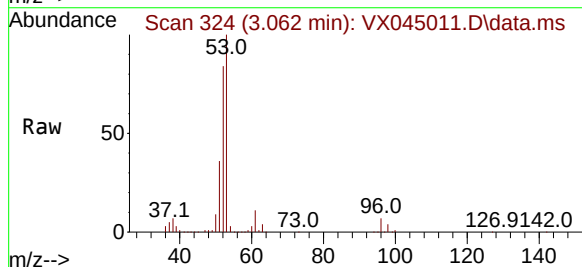
Tgt Ion: 53 Resp: 370914

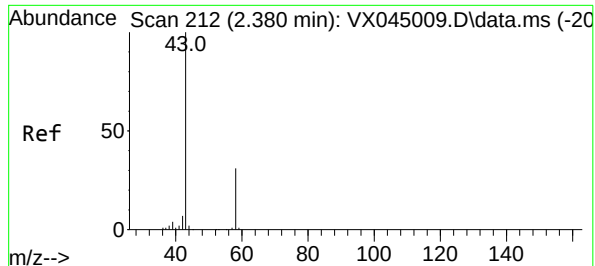
Ion Ratio Lower Upper

53 100

52 82.7 40.9 122.8

51 35.9 18.0 54.0





#15

Acetone

Concen: 476.326 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 58 Resp: 97560

Ion Ratio Lower Upper

58 100

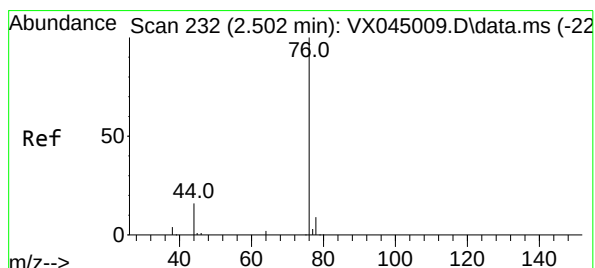
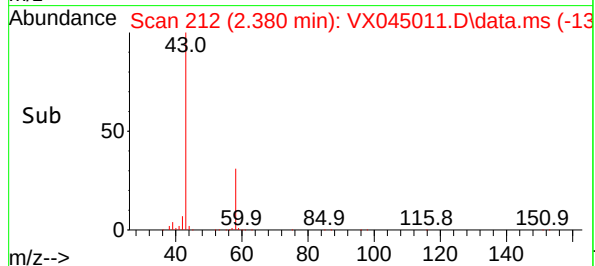
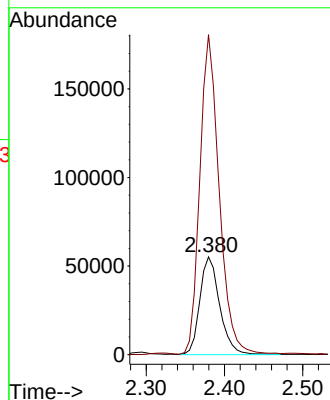
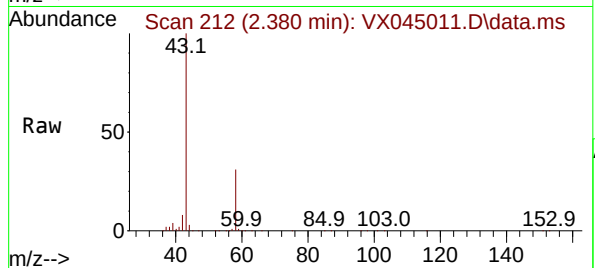
43 327.6 258.6 388.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#16

Carbon Disulfide

Concen: 99.576 ug/l

RT: 2.502 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX045011.D

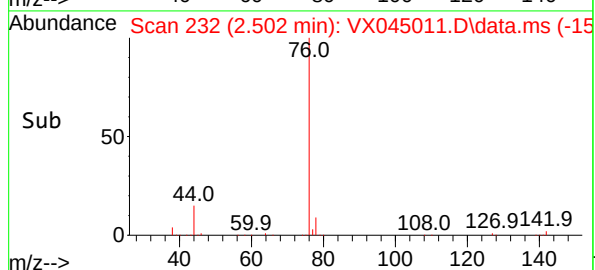
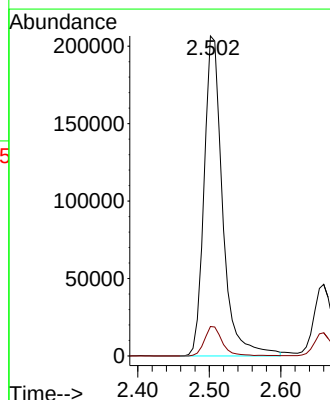
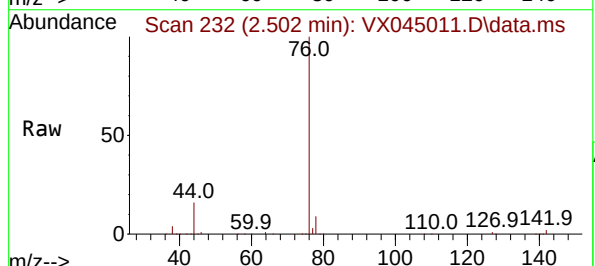
Acq: 21 Feb 2025 11:07

Tgt Ion: 76 Resp: 371874

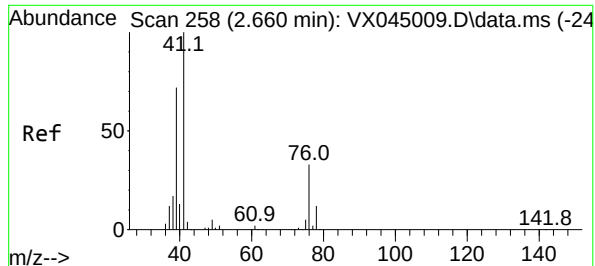
Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9







#17

Allyl chloride

Concen: 99.923 ug/l

RT: 2.654 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 24606

Ion Ratio Lower Upper

41 100

39 70.4 36.2 108.6

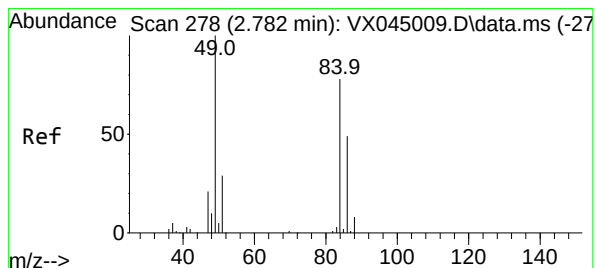
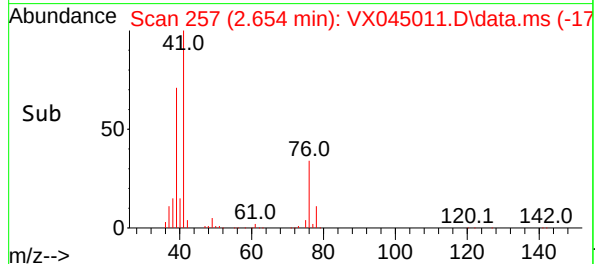
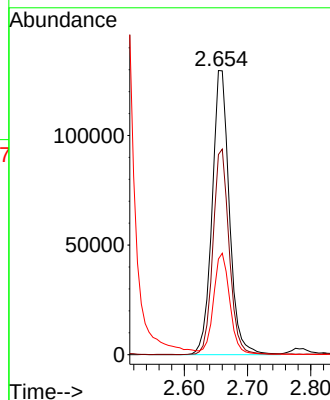
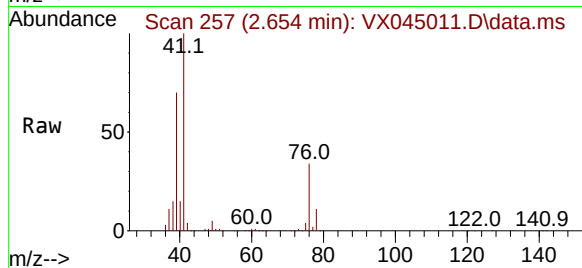
76 33.5 17.2 51.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#18

Methylene Chloride

Concen: 97.871 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Tgt Ion: 84 Resp: 144938

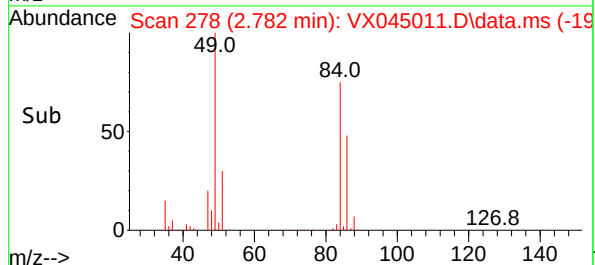
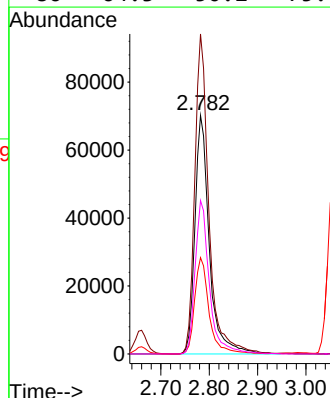
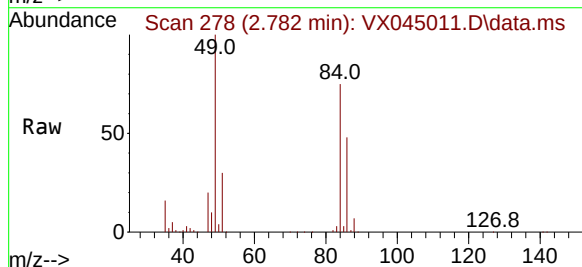
Ion Ratio Lower Upper

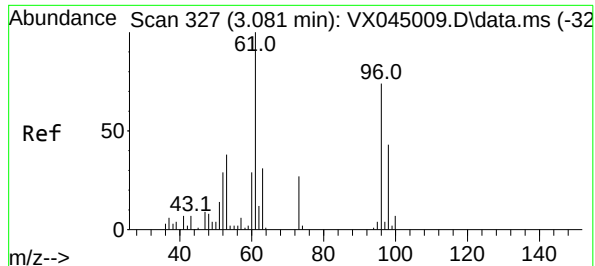
84 100

49 134.0 102.8 154.2

51 40.4 30.1 45.1

86 64.3 50.2 75.4





#19

trans-1,2-Dichloroethene

Concen: 98.015 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 130562

Ion Ratio Lower Upper

96 100

61 138.3 108.6 163.0

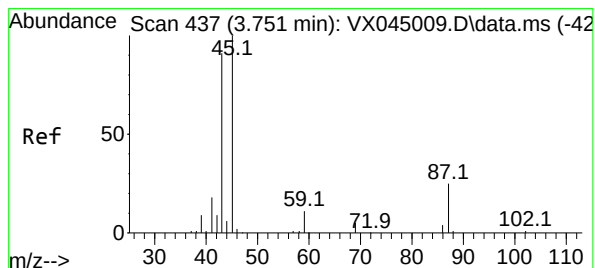
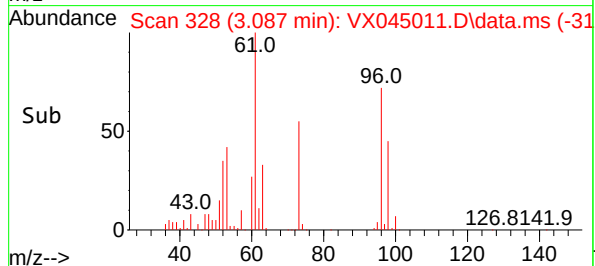
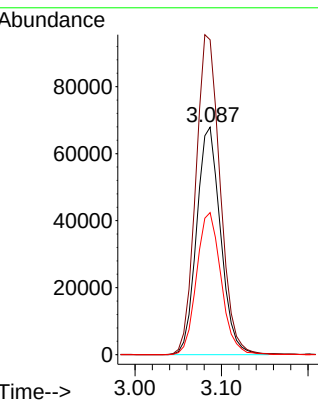
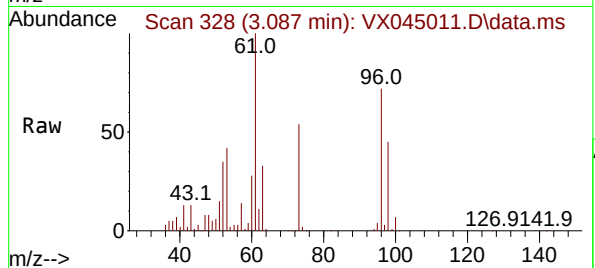
98 62.5 46.5 69.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#20

Diisopropyl ether

Concen: 99.355 ug/l

RT: 3.757 min Scan# 438

Delta R.T. 0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Tgt Ion: 45 Resp: 470167

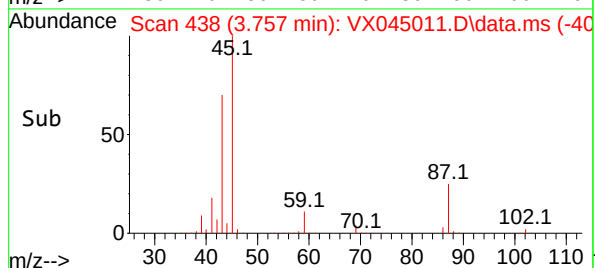
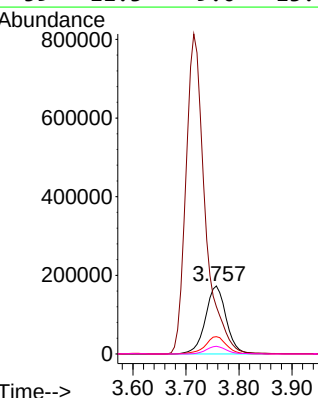
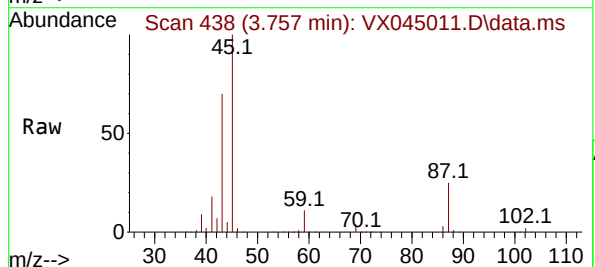
Ion Ratio Lower Upper

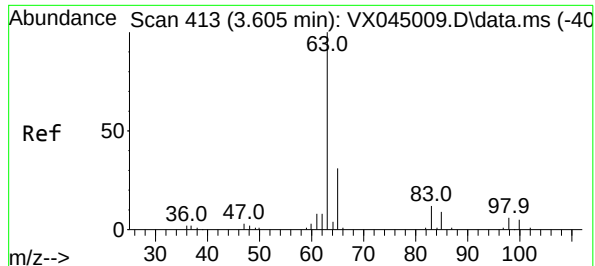
45 100

43 69.5 74.4 111.6#

87 25.4 19.8 29.8

59 11.3 9.0 13.4





#21

1,1-Dichloroethane

Concen: 98.196 ug/l

RT: 3.605 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 258430

Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.8

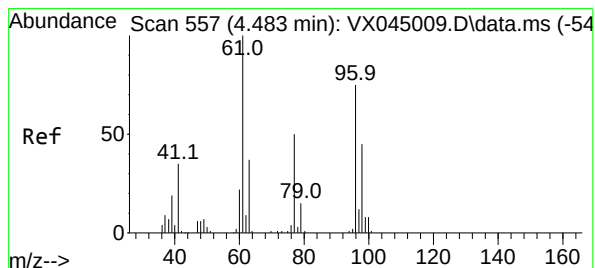
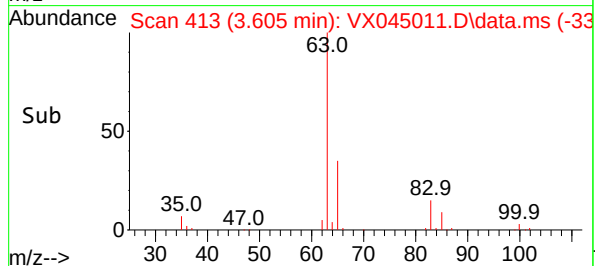
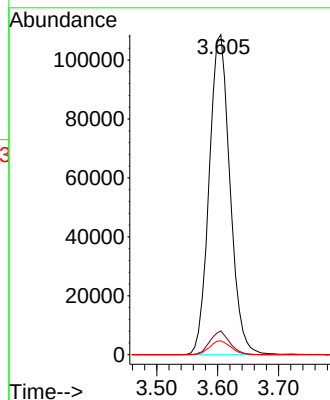
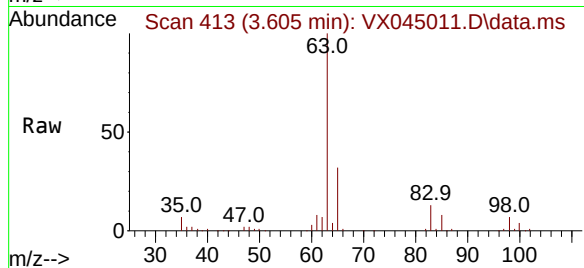
100 4.4 2.4 7.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#22

cis-1,2-Dichloroethene

Concen: 98.314 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

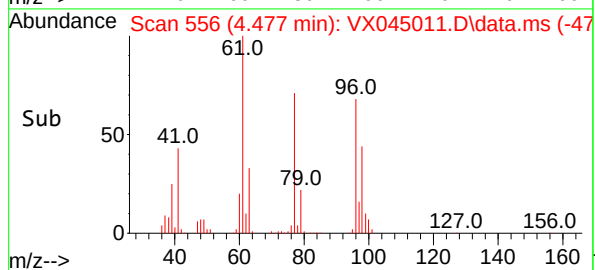
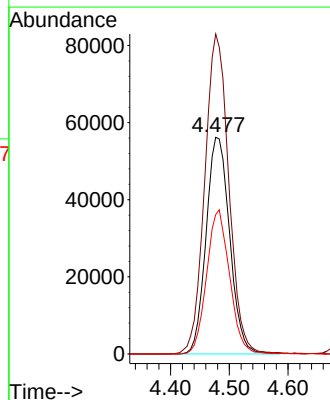
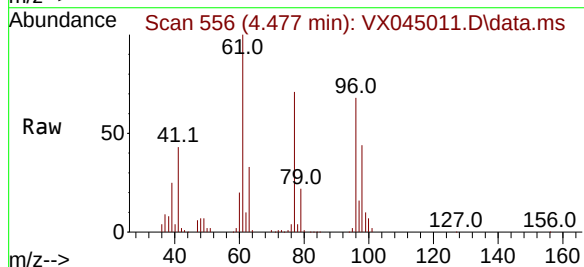
Tgt Ion: 96 Resp: 156933

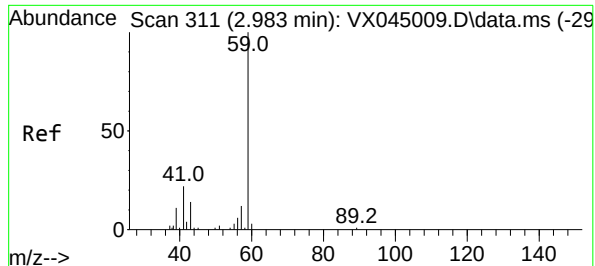
Ion Ratio Lower Upper

96 100

61 150.2 118.9 178.3

98 64.5 50.7 76.1





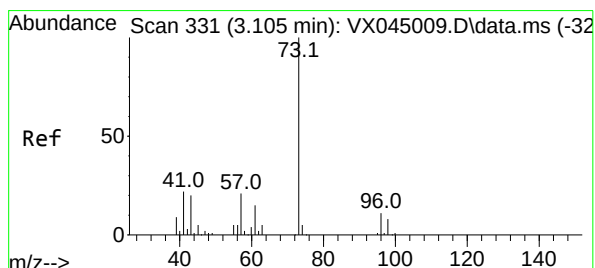
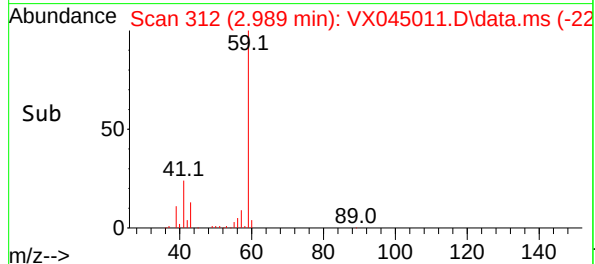
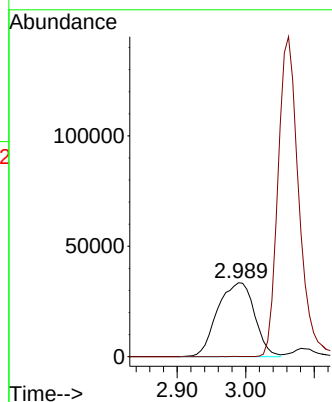
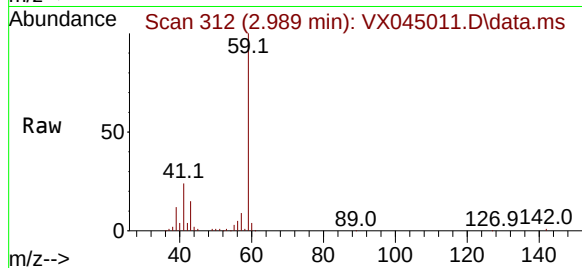
#23  
tert-Butyl Alcohol  
Concen: 481.055 ug/l  
RT: 2.989 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 59 Resp: 125570  
Ion Ratio Lower Upper  
59 100  
52 0.1 0.0 0.0

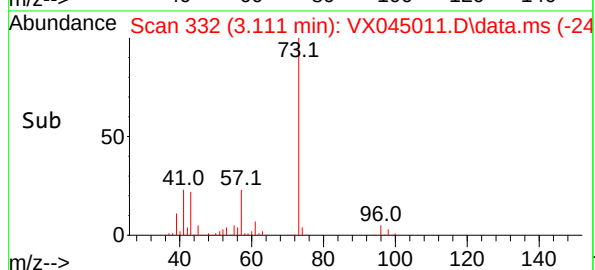
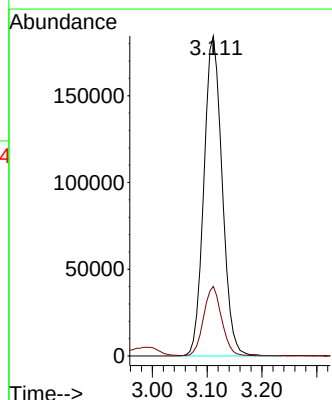
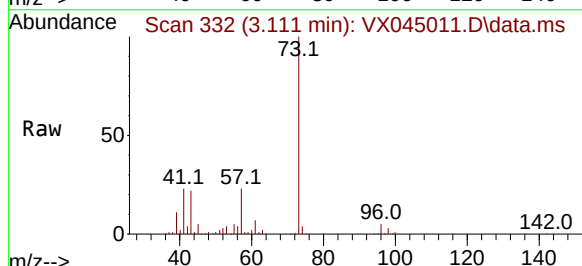
Manual Integrations  
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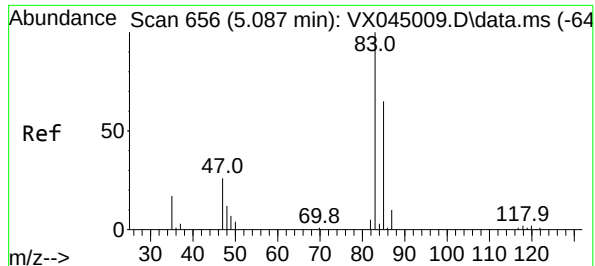
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#24  
Methyl tert-Butyl Ether  
Concen: 99.244 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 73 Resp: 426471  
Ion Ratio Lower Upper  
73 100  
43 21.3 17.4 26.0





#25

Chloroform

Concen: 97.577 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 24804

Ion Ratio Lower Upper

83 100

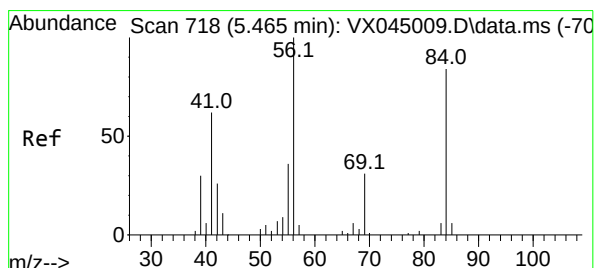
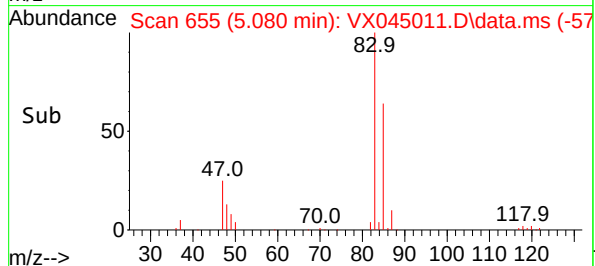
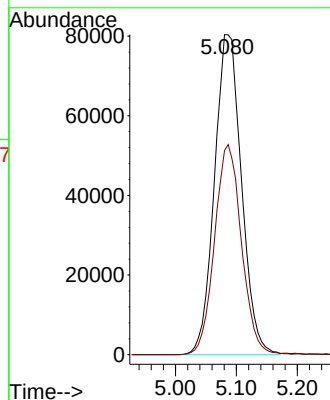
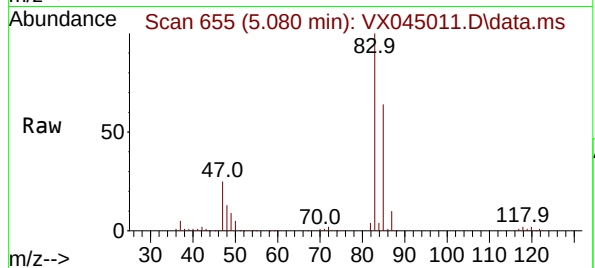
85 63.7 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#26

Cyclohexane

Concen: 97.509 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

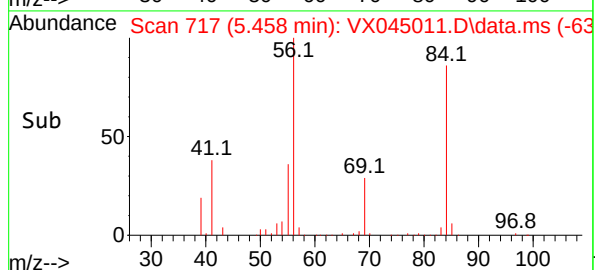
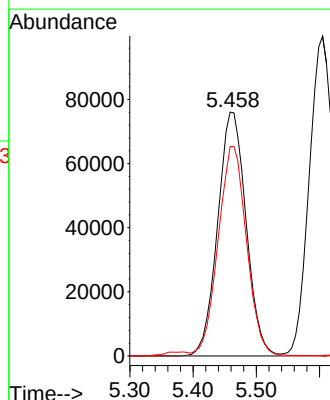
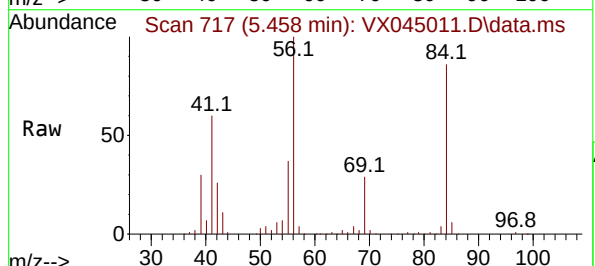
Tgt Ion: 56 Resp: 236876

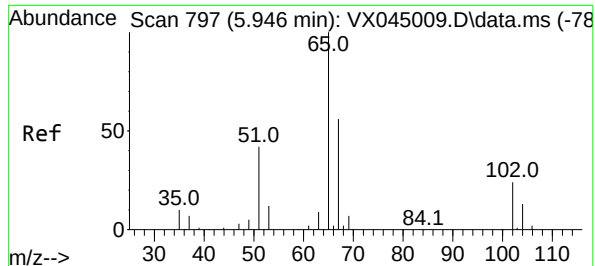
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.0 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 30.059 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 5060

Ion Ratio Lower Upper

65 100

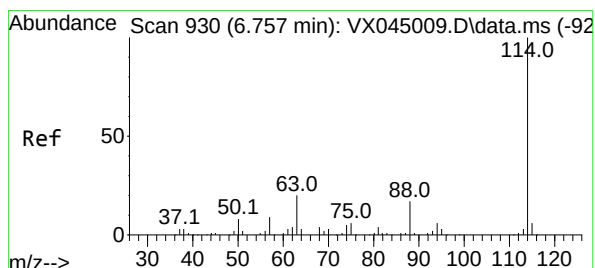
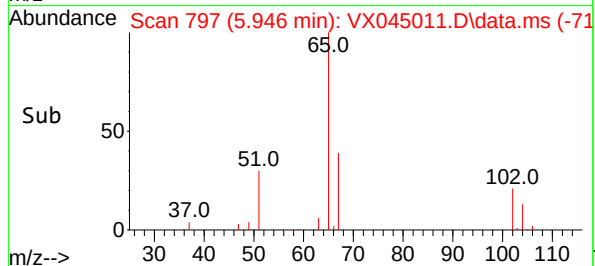
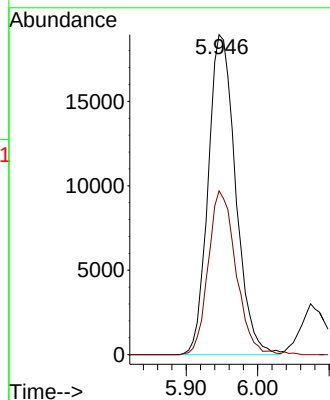
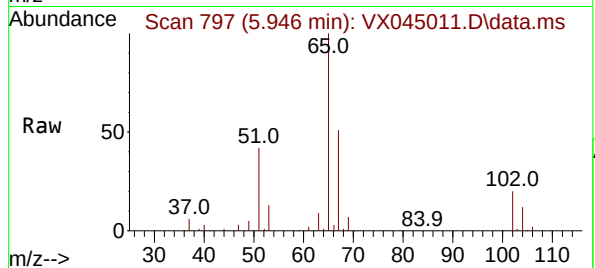
67 50.9 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

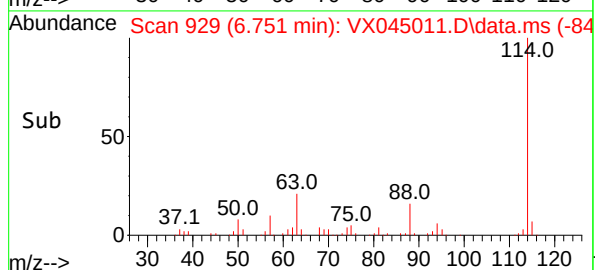
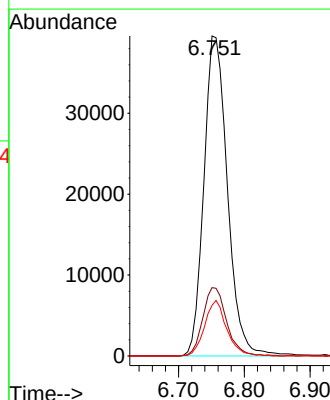
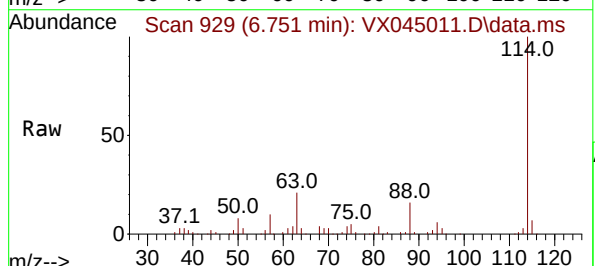
Tgt Ion:114 Resp: 98516

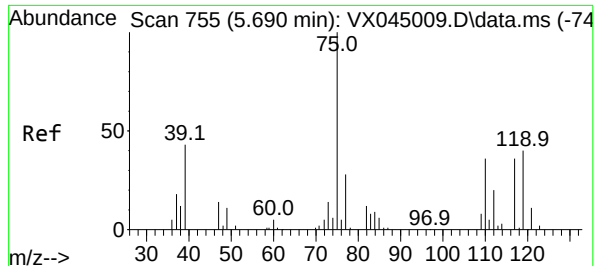
Ion Ratio Lower Upper

114 100

63 21.6 16.8 25.2

88 16.3 12.7 19.1





#29

1,1-Dichloropropene

Concen: 96.357 ug/l

RT: 5.684 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 174620

Ion Ratio Lower Upper

75 100

110 34.7 0.0 69.2

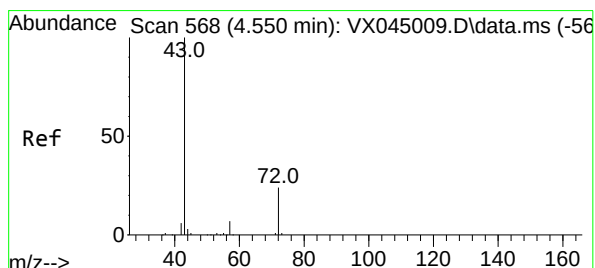
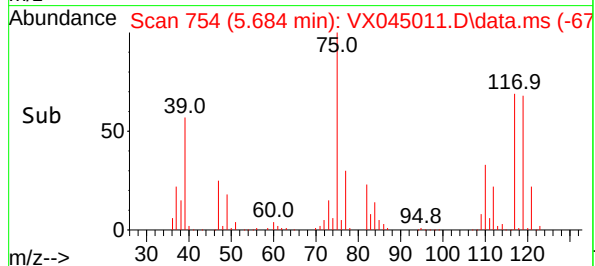
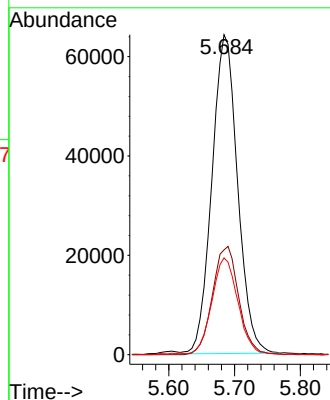
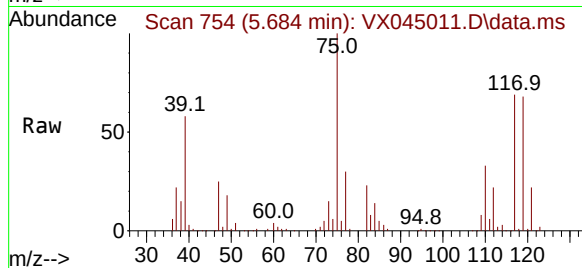
77 30.9 0.0 61.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#30

2-Butanone

Concen: 482.489 ug/l

RT: 4.550 min Scan# 568

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

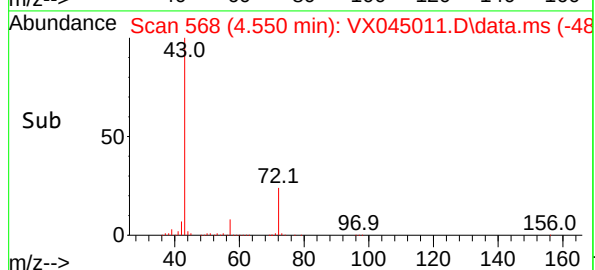
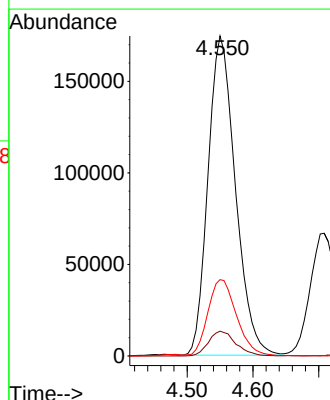
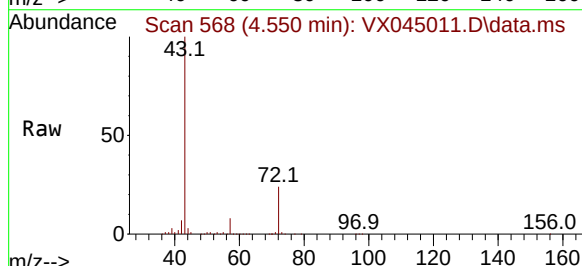
Tgt Ion: 43 Resp: 505036

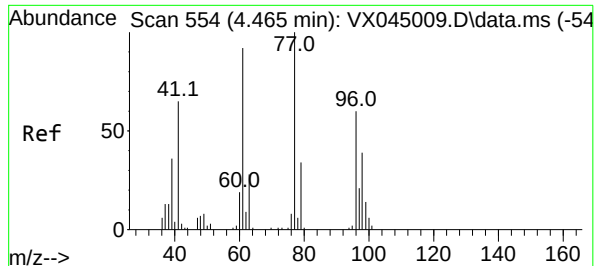
Ion Ratio Lower Upper

43 100

57 7.8 6.2 9.2

72 24.7 20.2 30.2





#31

2,2-Dichloropropane

Concen: 98.758 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 77 Resp: 202370

Ion Ratio Lower Upper

77 100

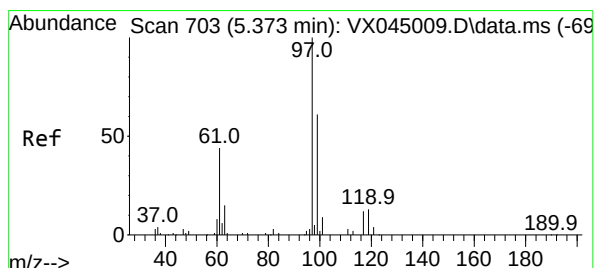
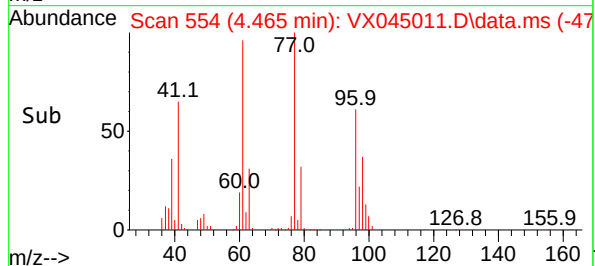
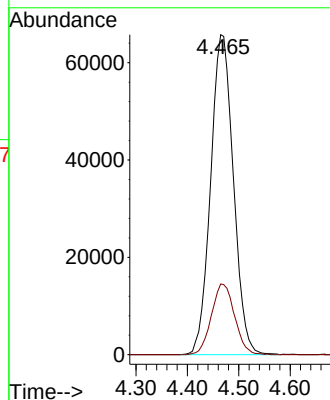
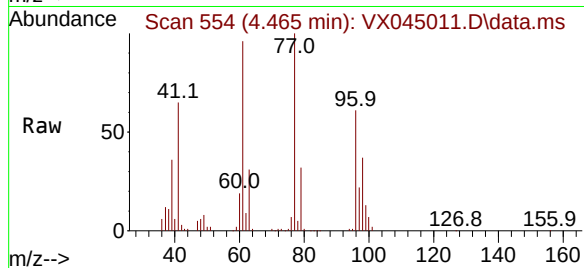
97 22.5 18.0 27.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#32

1,1,1-Trichloroethane

Concen: 96.379 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

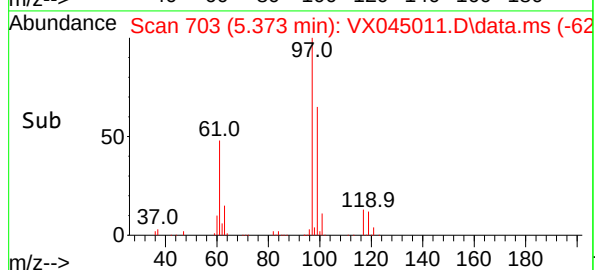
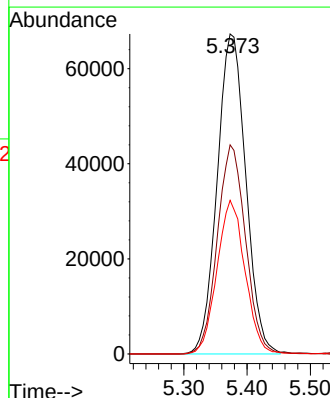
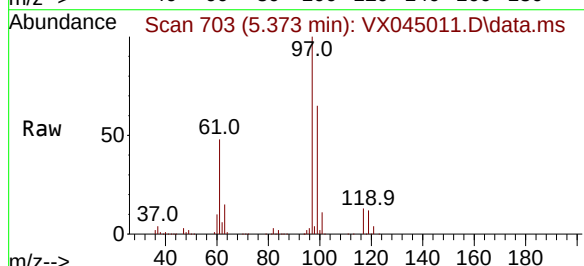
Tgt Ion: 97 Resp: 211623

Ion Ratio Lower Upper

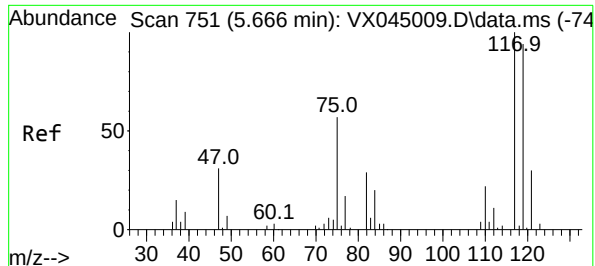
97 100

99 64.4 52.2 78.2

61 46.9 38.5 57.7

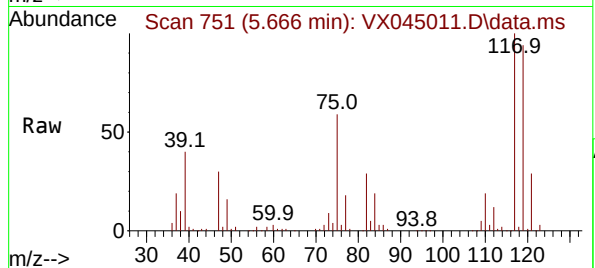






#33  
Carbon Tetrachloride  
Concen: 96.425 ug/l  
RT: 5.666 min Scan# 751  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

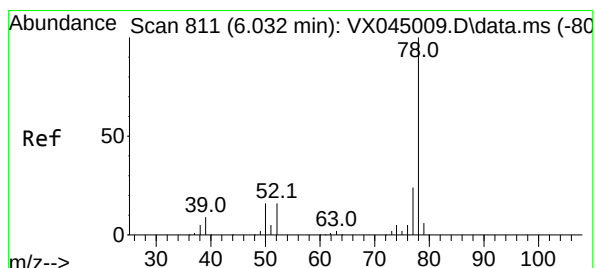
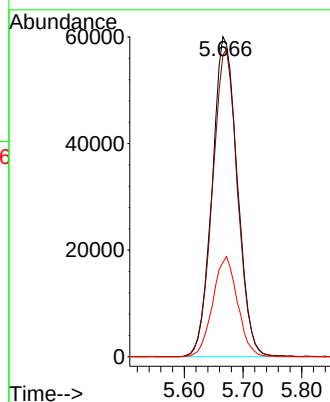
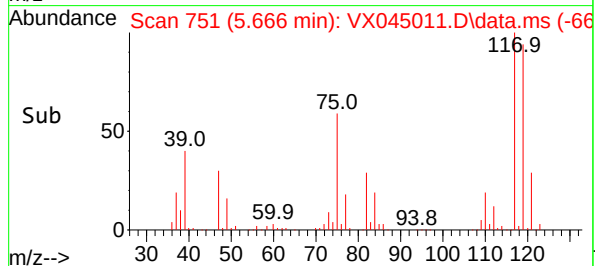
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 117 Resp: 178689  
Ion Ratio Lower Upper  
117 100  
119 94.3 75.1 112.7  
121 29.5 23.9 35.9

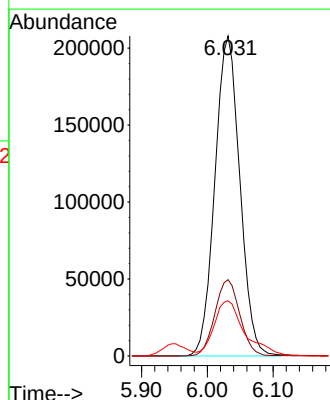
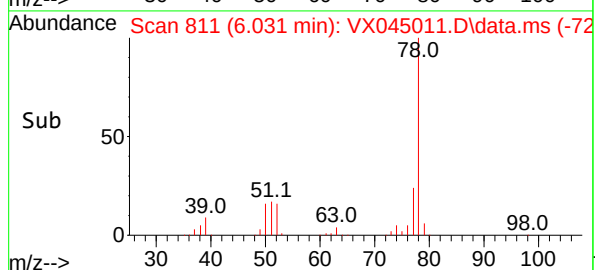
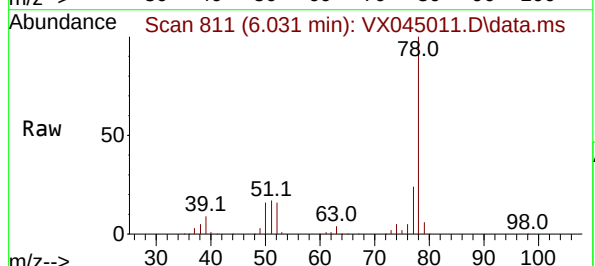
Manual Integrations  
APPROVED

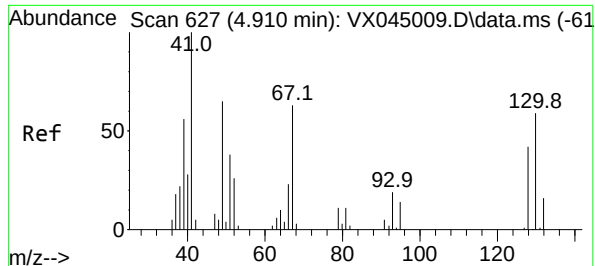
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#34  
Benzene  
Concen: 96.492 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 78 Resp: 548369  
Ion Ratio Lower Upper  
78 100  
77 23.9 19.6 29.4  
51 16.4 13.8 20.6





#35

Methacrylonitrile

Concen: 99.957 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 111962

Ion Ratio Lower Upper

41 100

39 53.8 27.8 83.4

67 66.4 31.5 94.5

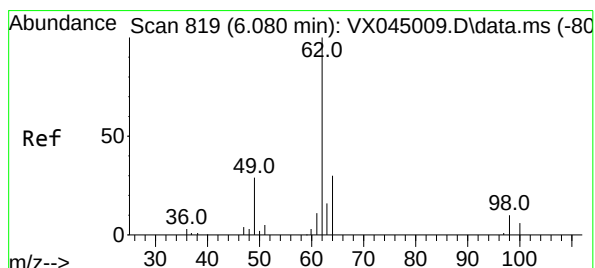
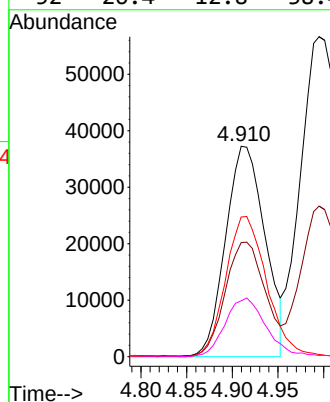
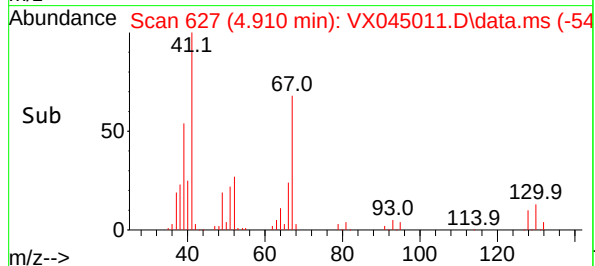
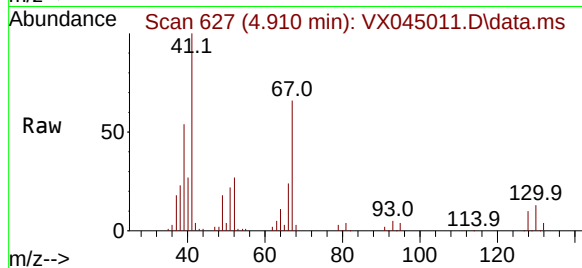
52 26.4 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#36

1,2-Dichloroethane

Concen: 97.362 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.000 min

Lab File: VX045011.D

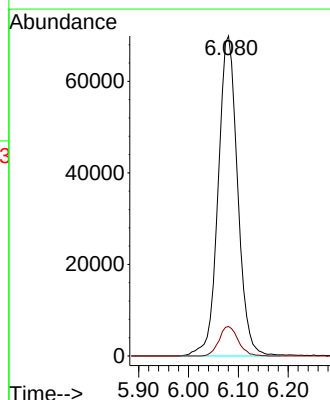
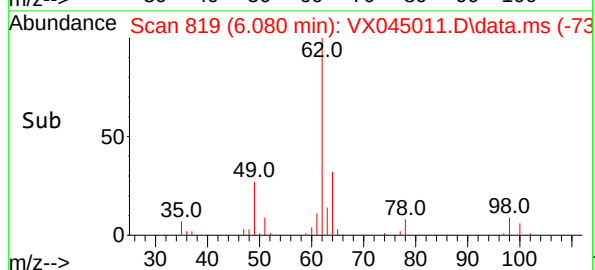
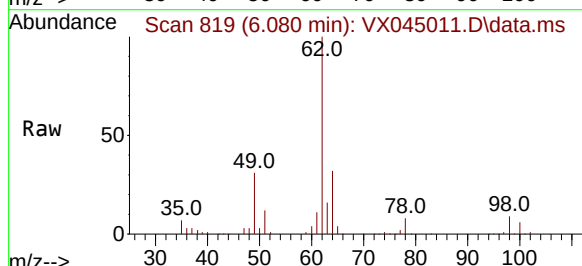
Acq: 21 Feb 2025 11:07

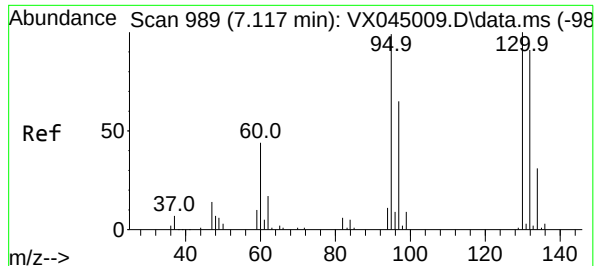
Tgt Ion: 62 Resp: 189437

Ion Ratio Lower Upper

62 100

98 9.1 7.9 11.9





#37

Trichloroethene

Concen: 96.375 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:130 Resp: 128134

Ion Ratio Lower Upper

130 100

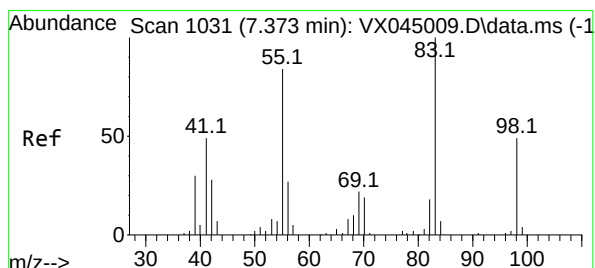
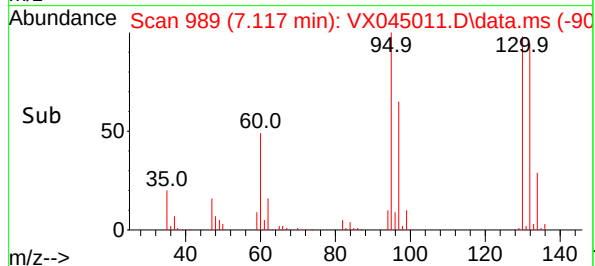
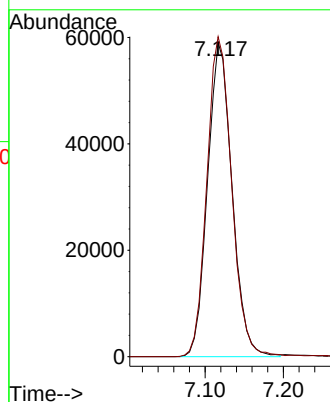
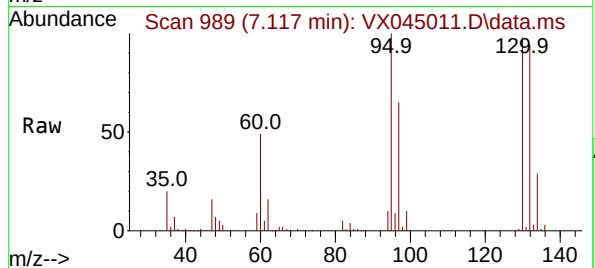
95 101.7 79.0 118.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#38

Methylcyclohexane

Concen: 97.744 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

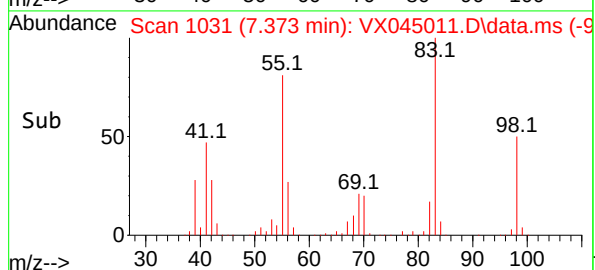
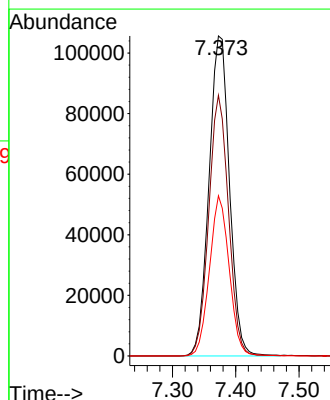
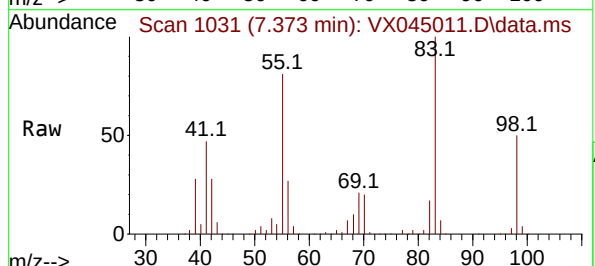
Tgt Ion: 83 Resp: 237839

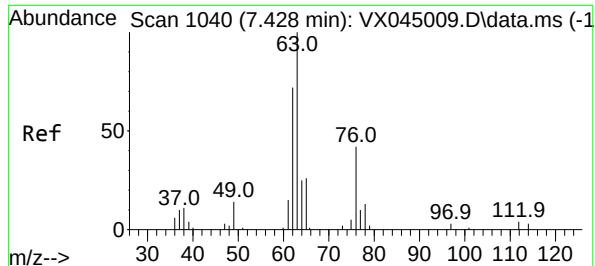
Ion Ratio Lower Upper

83 100

55 78.5 40.6 122.0

98 48.2 24.9 74.6





#39

1,2-Dichloropropane

Concen: 99.193 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 140148

Ion Ratio Lower Upper

63 100

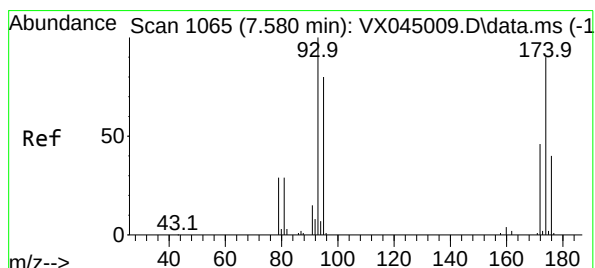
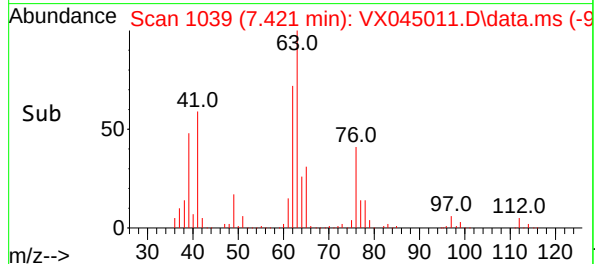
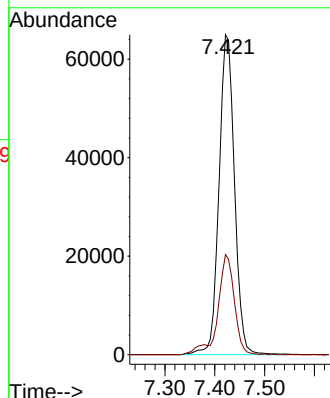
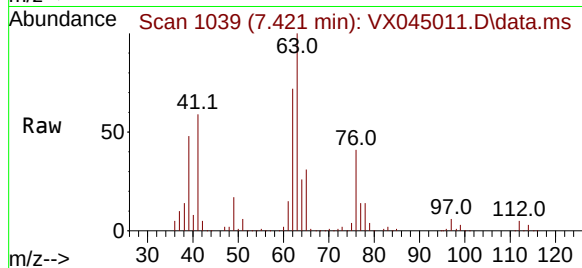
65 31.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#40

Dibromomethane

Concen: 96.465 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

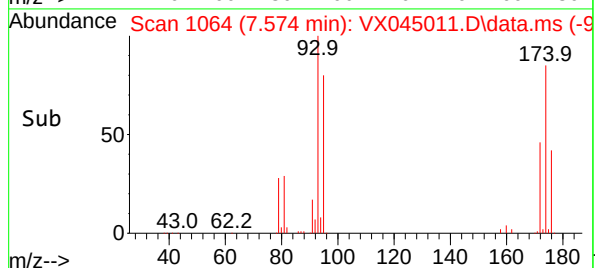
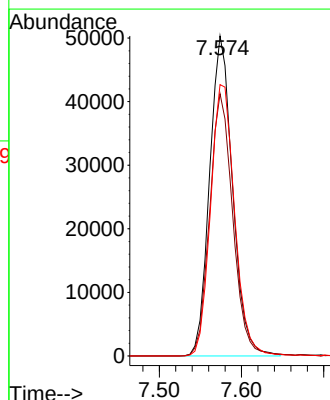
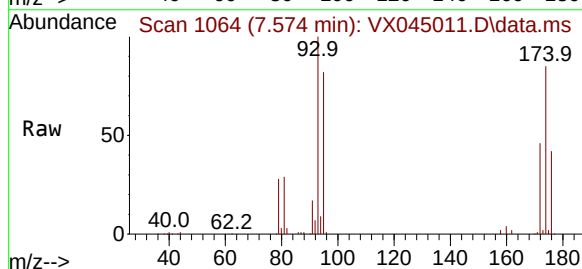
Tgt Ion: 93 Resp: 97805

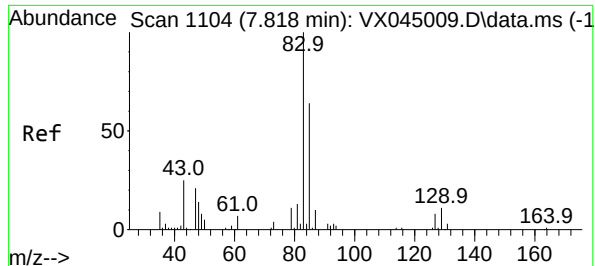
Ion Ratio Lower Upper

93 100

95 82.6 0.0 162.6

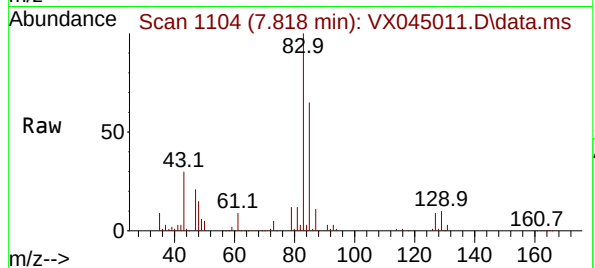
174 88.6 0.0 178.8





#41  
Bromodichloromethane  
Concen: 97.929 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

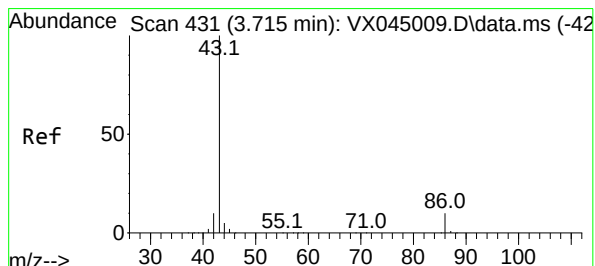
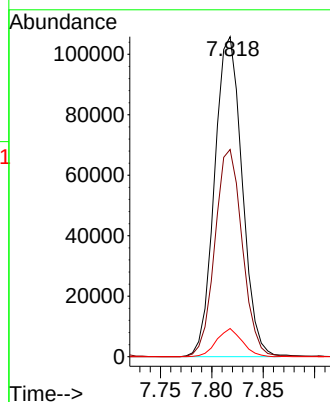
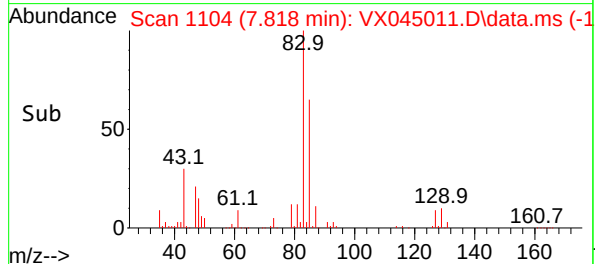
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100



Tgt Ion: 83 Resp: 197339  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.0 76.6  
127 8.8 6.1 9.1

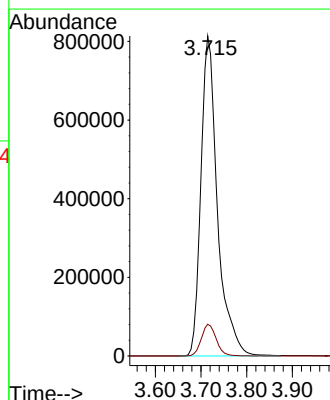
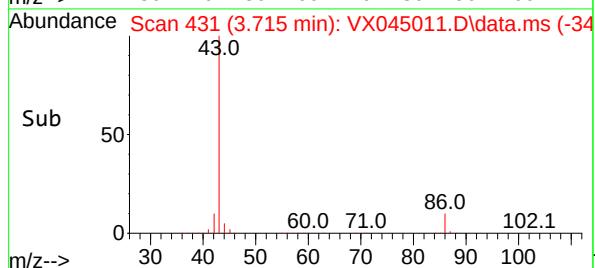
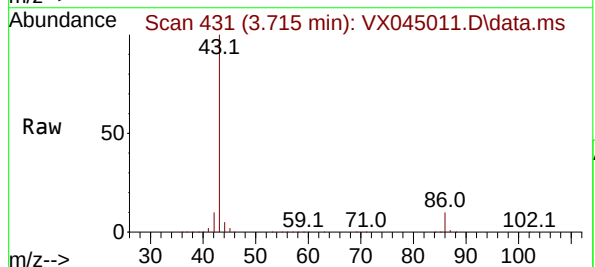
Manual Integrations  
APPROVED

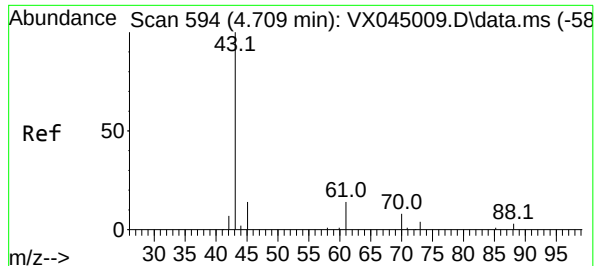
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#42  
Vinyl Acetate  
Concen: 502.855 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 2042535  
Ion Ratio Lower Upper  
43 100  
86 8.9 7.0 10.4





#43

Ethyl Acetate

Concen: 101.424 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 199092

Ion Ratio Lower Upper

43 100

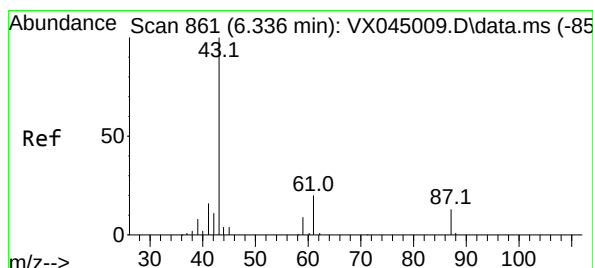
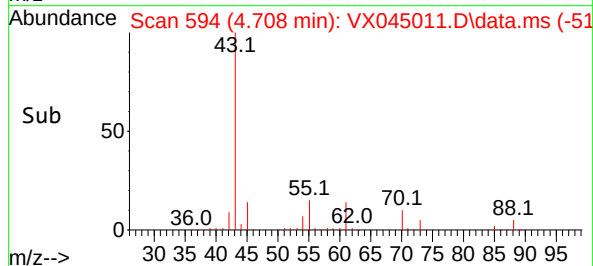
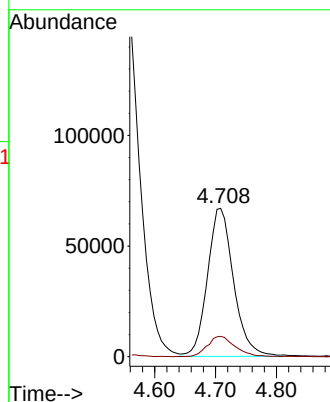
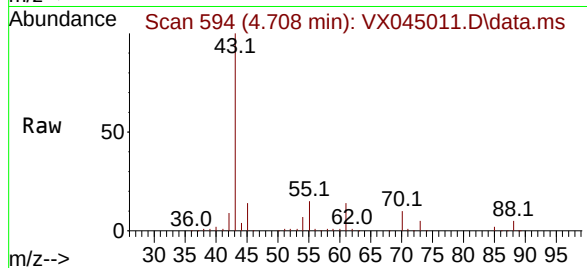
45 14.6 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#44

Isopropyl Acetate

Concen: 102.113 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX045011.D

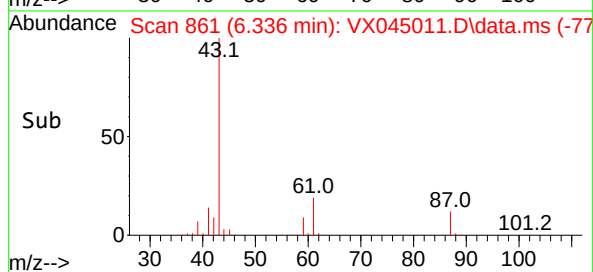
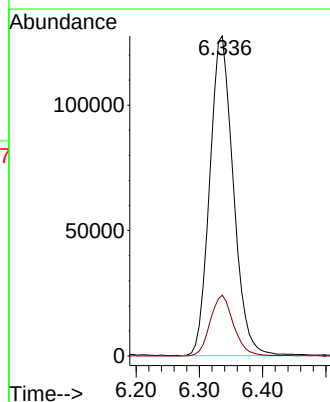
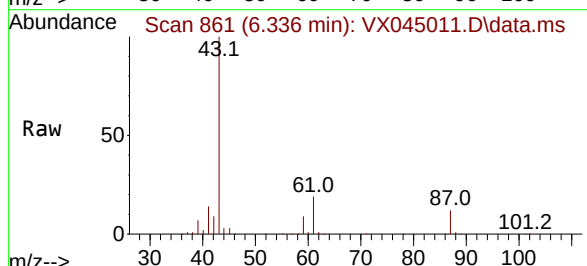
Acq: 21 Feb 2025 11:07

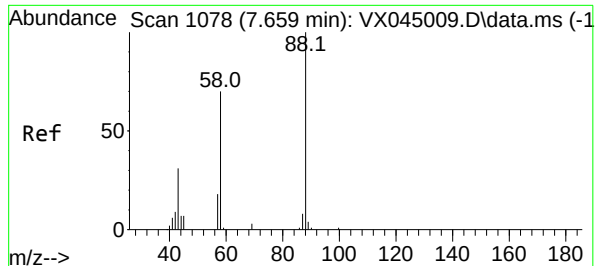
Tgt Ion: 43 Resp: 329903

Ion Ratio Lower Upper

43 100

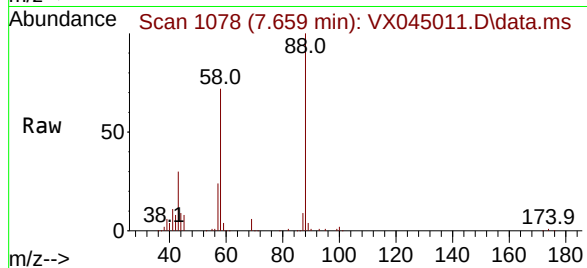
61 18.9 15.5 23.3





#45  
1,4-Dioxane  
Concen: 1897.493 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

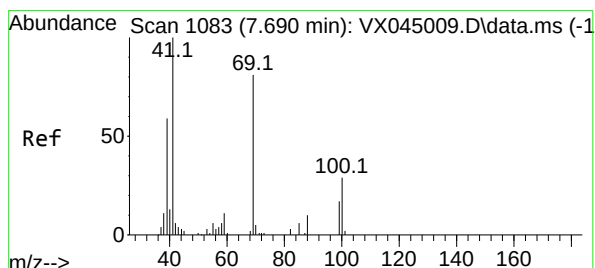
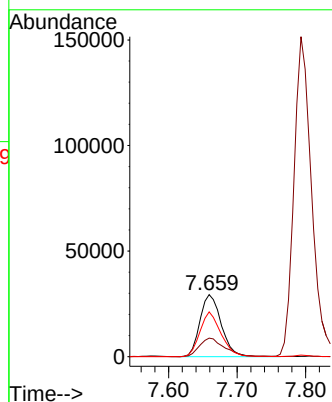
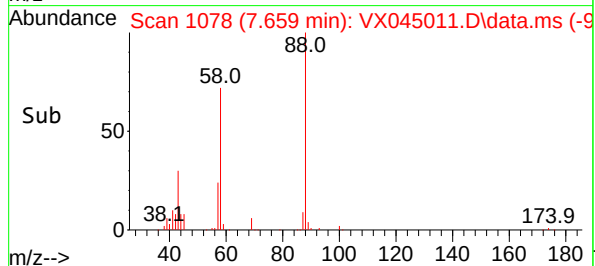
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion: 88 Resp: 63728  
Ion Ratio Lower Upper  
88 100  
43 34.9 29.6 44.4  
58 71.2 56.2 84.4

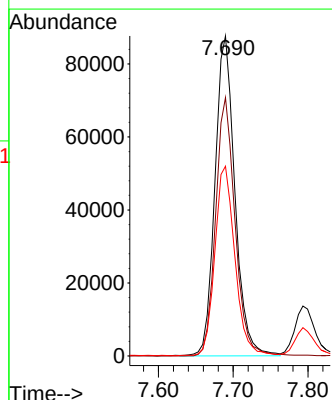
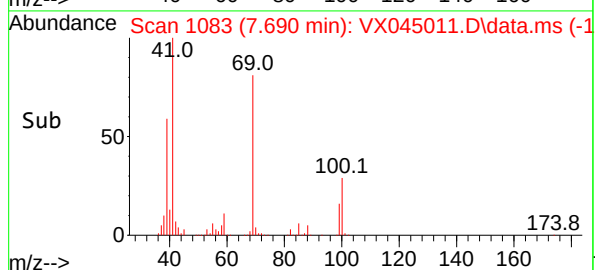
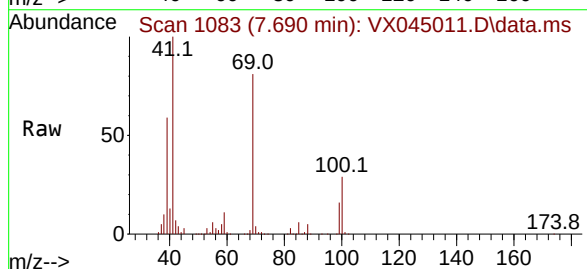
Manual Integrations  
APPROVED

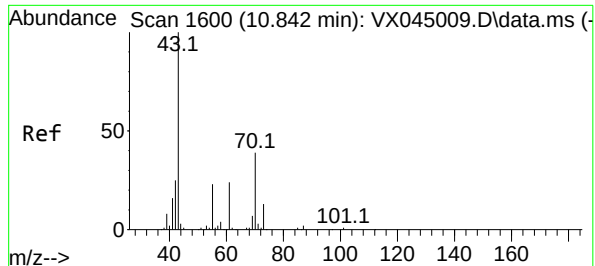
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#46  
Methyl methacrylate  
Concen: 102.589 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 41 Resp: 162523  
Ion Ratio Lower Upper  
41 100  
69 80.9 40.7 122.1  
39 59.3 29.5 88.5





#47

n-amyl Acetate

Concen: 100.917 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 28292

Ion Ratio Lower Upper

43 100

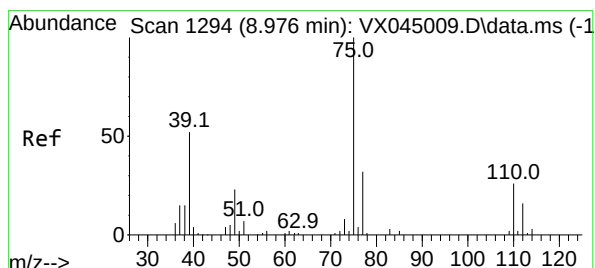
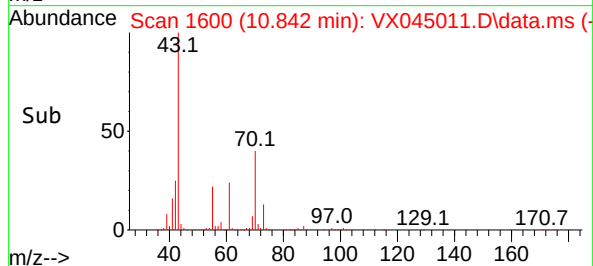
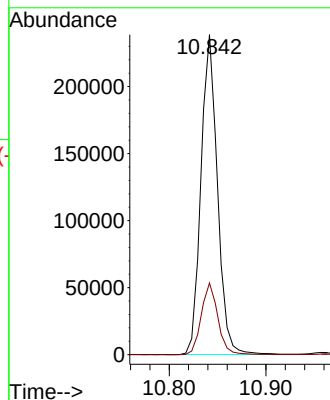
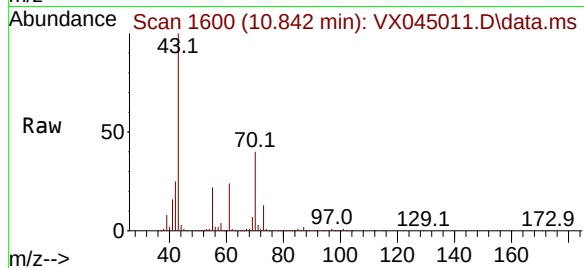
55 22.5 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#48

t-1,3-Dichloropropene

Concen: 104.416 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045011.D

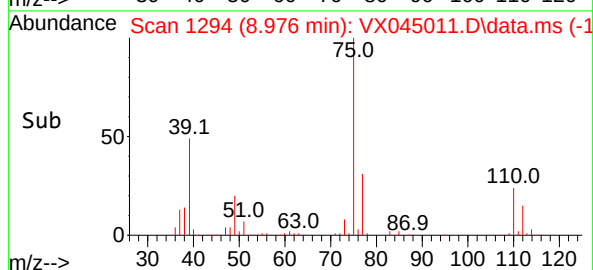
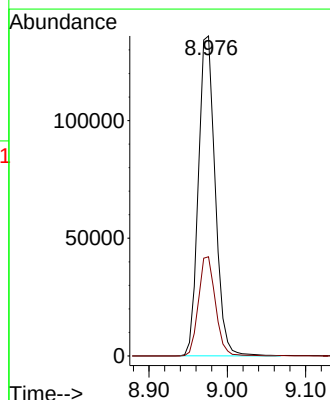
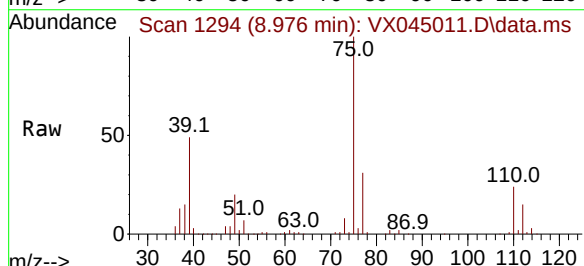
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 202810

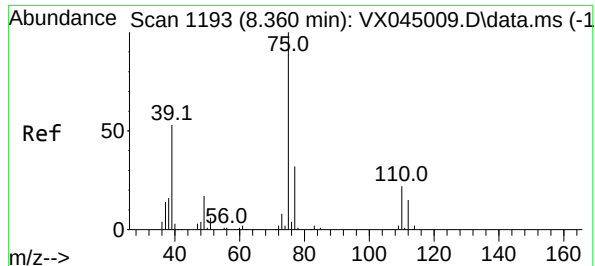
Ion Ratio Lower Upper

75 100

77 31.0 25.7 38.5







#49

cis-1,3-Dichloropropene

Concen: 101.800 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 22383

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9

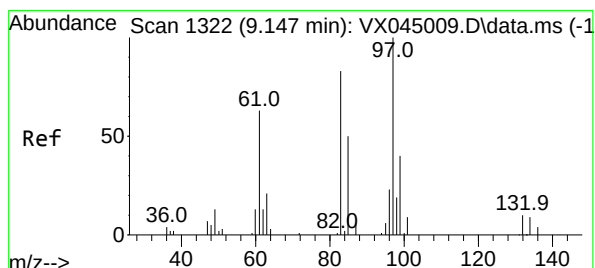
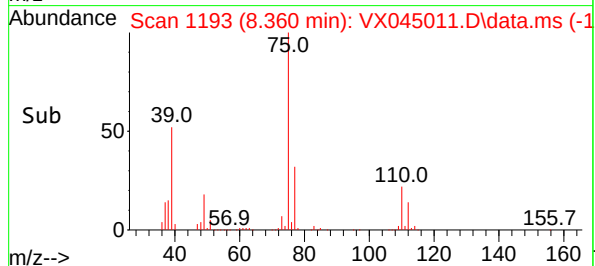
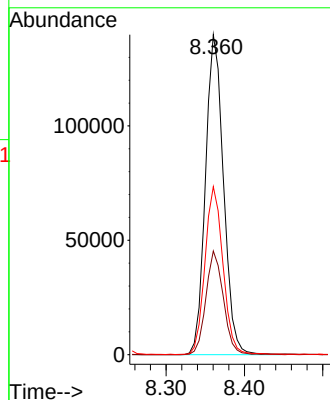
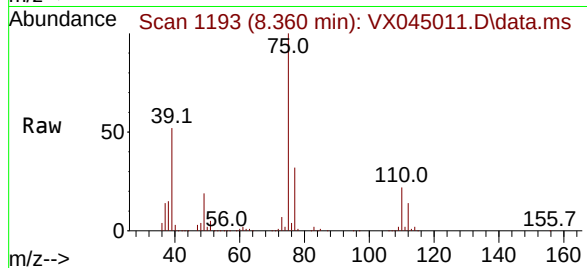
39 52.4 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

1,1,2-Trichloroethane

Concen: 96.553 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Tgt Ion: 97 Resp: 127690

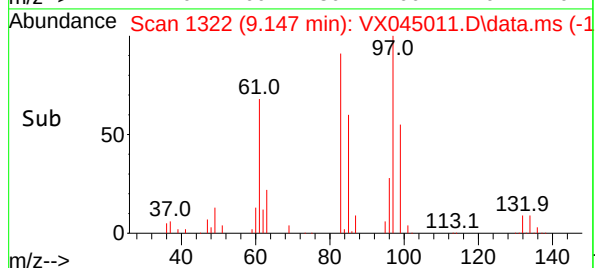
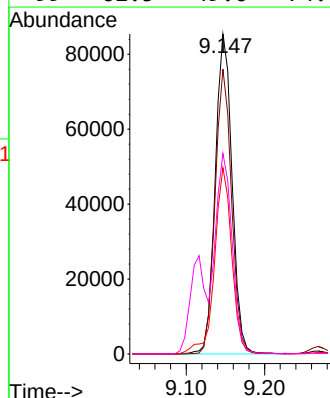
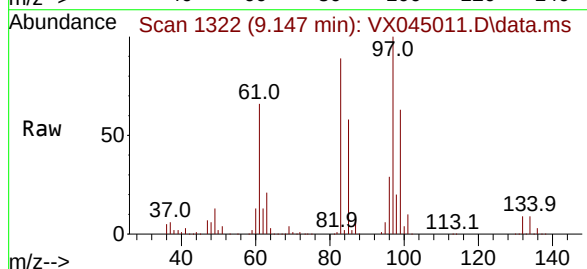
Ion Ratio Lower Upper

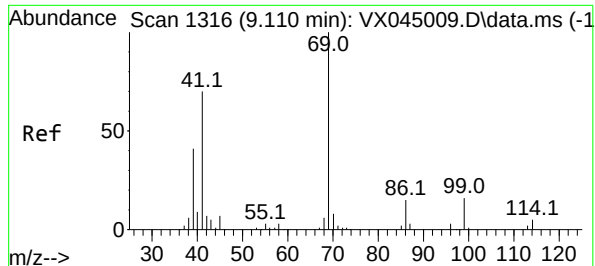
97 100

83 89.0 66.0 99.0

85 58.1 42.5 63.7

99 62.5 49.6 74.4





#51

Ethyl methacrylate

Concen: 103.117 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 69 Resp: 214475

Ion Ratio Lower Upper

69 100

41 72.5 35.1 105.3

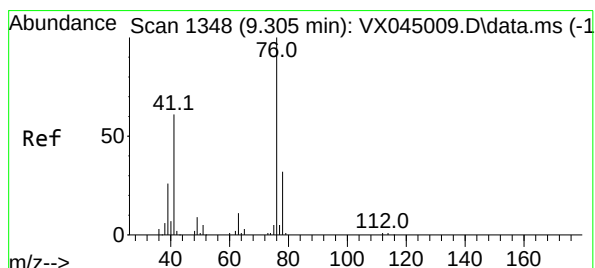
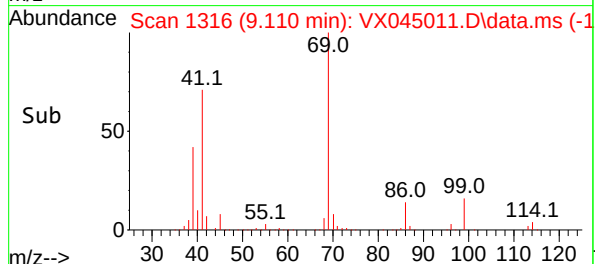
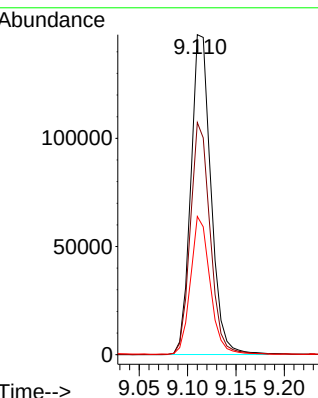
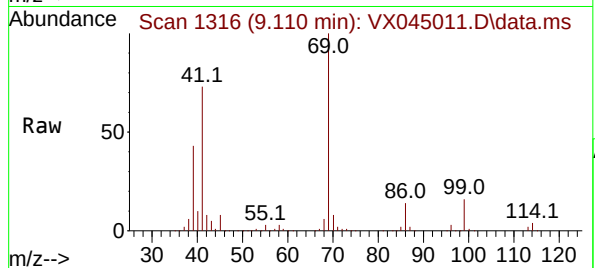
39 43.1 20.5 61.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#52

1,3-Dichloropropane

Concen: 96.102 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045011.D

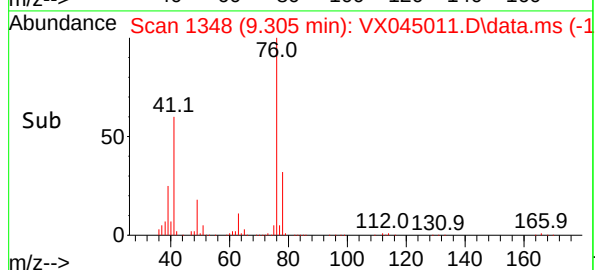
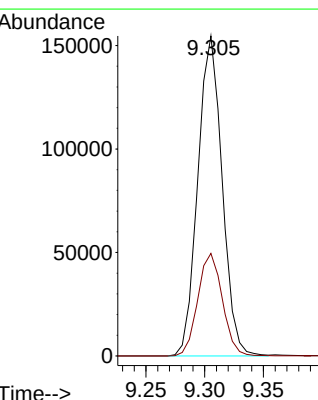
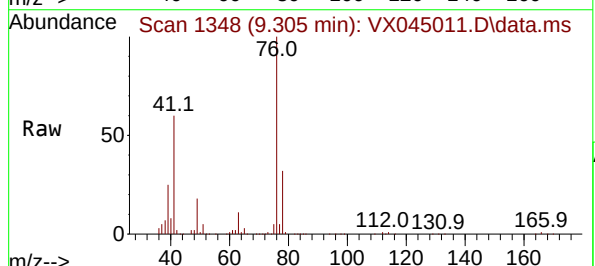
Acq: 21 Feb 2025 11:07

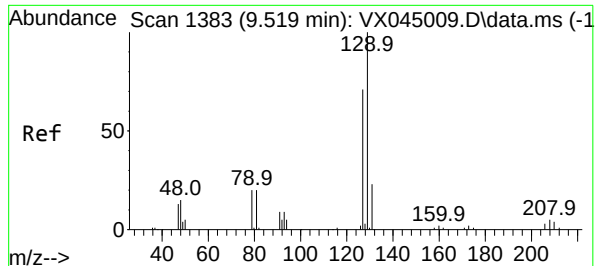
Tgt Ion: 76 Resp: 222694

Ion Ratio Lower Upper

76 100

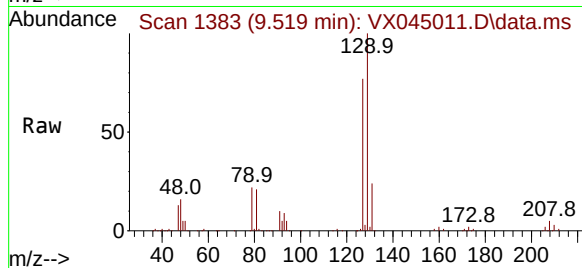
78 32.3 0.0 63.6





#53  
Dibromochloromethane  
Concen: 98.713 ug/l  
RT: 9.519 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

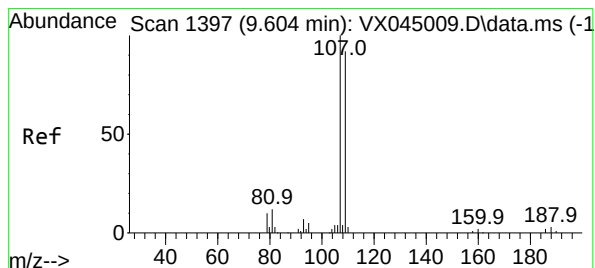
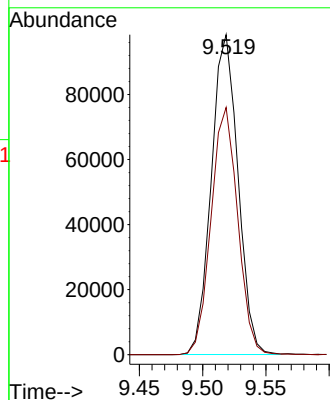
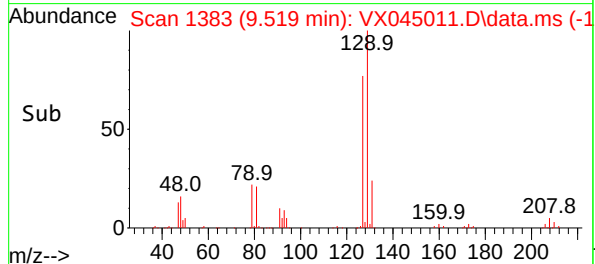
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:129 Resp: 144384  
Ion Ratio Lower Upper  
129 100  
127 77.2 37.3 111.9

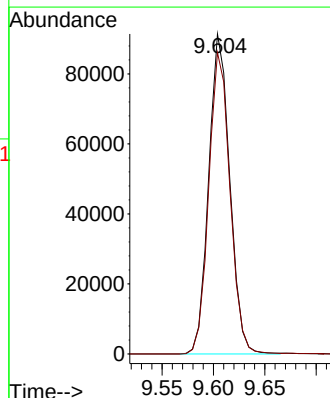
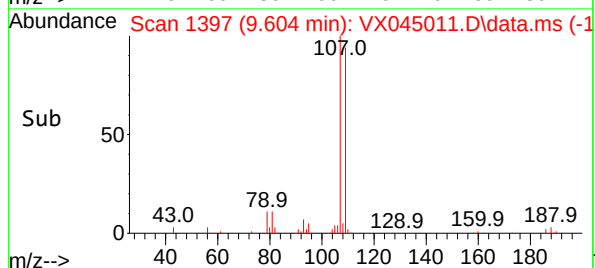
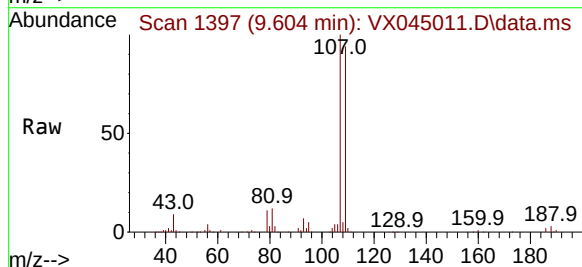
Manual Integrations  
APPROVED

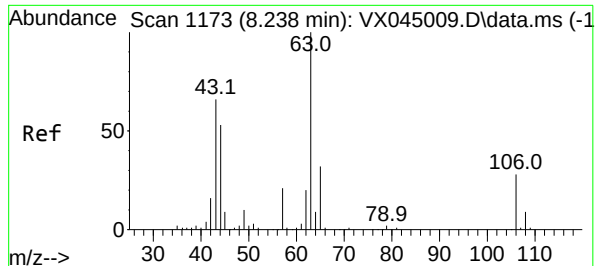
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#54  
1,2-Dibromoethane  
Concen: 97.194 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:107 Resp: 130524  
Ion Ratio Lower Upper  
107 100  
109 95.0 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 501.334 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 53547

Ion Ratio Lower Upper

63 100

65 31.9 26.2 39.2

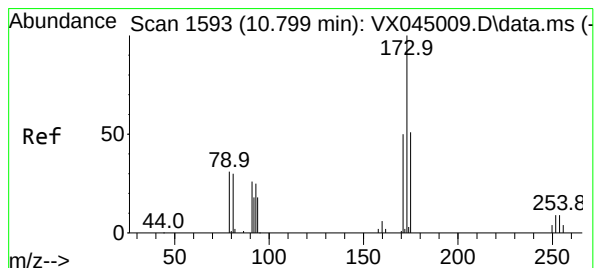
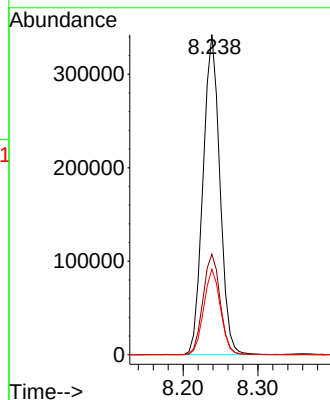
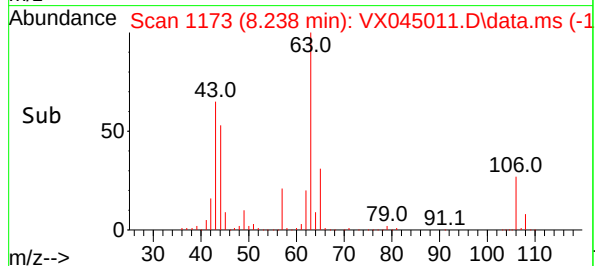
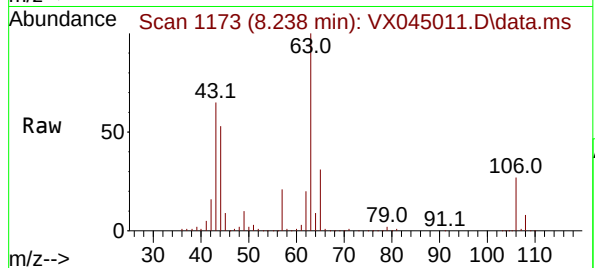
106 26.6 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#56

Bromoform

Concen: 100.830 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

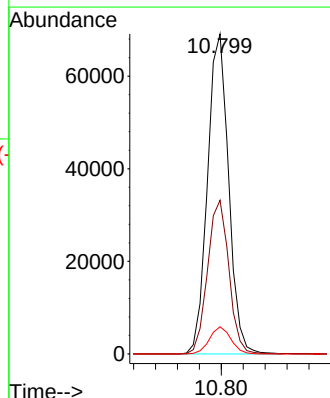
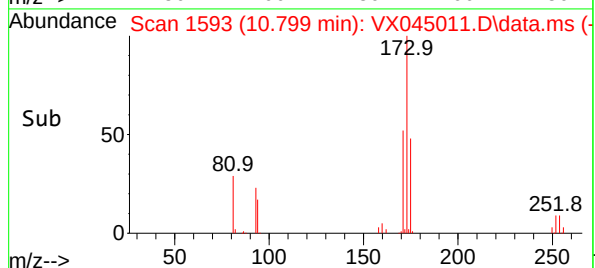
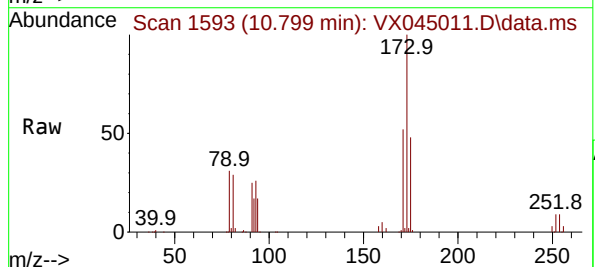
Tgt Ion:173 Resp: 92416

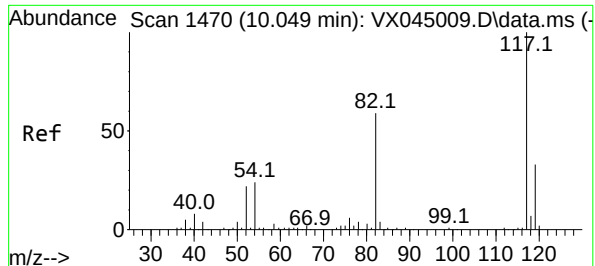
Ion Ratio Lower Upper

173 100

175 48.5 39.6 59.4

254 8.6 6.3 9.5





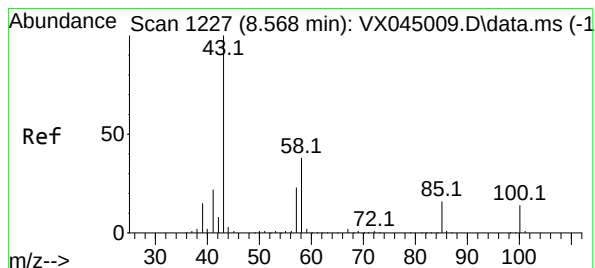
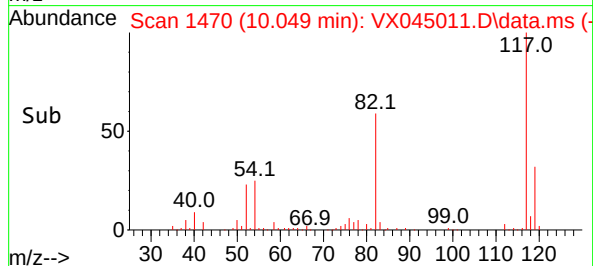
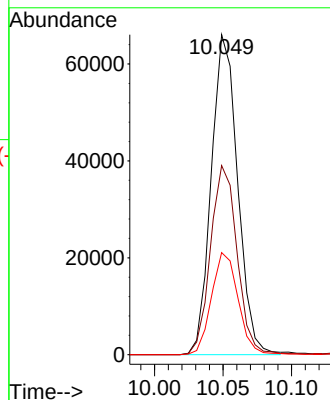
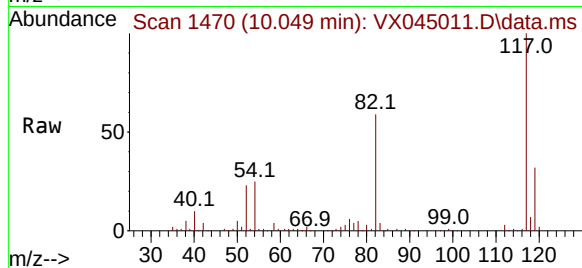
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 117 Resp: 8832  
Ion Ratio Lower Upper  
117 100  
82 60.0 45.8 68.8  
119 32.4 25.5 38.3

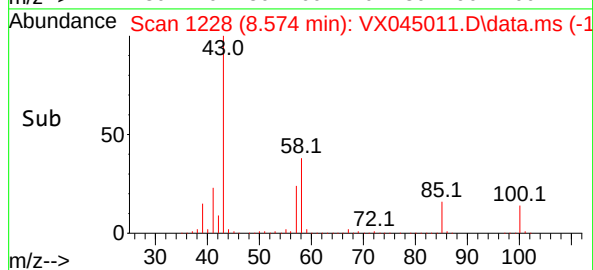
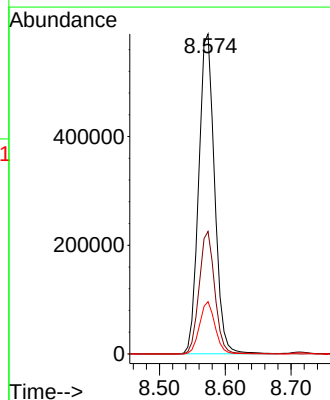
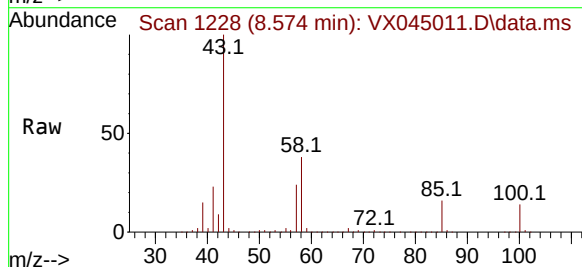
Manual Integrations  
APPROVED

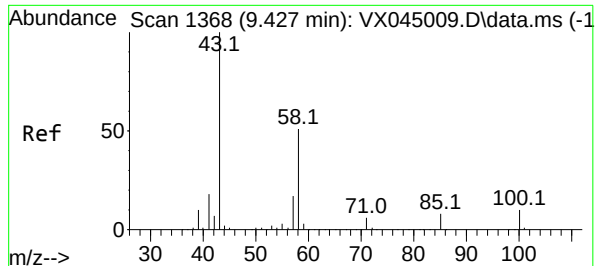
Reviewed By : John Carlone 02/24/2025  
Supervised By : Mahesh Dadoda 02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 489.624 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 983713  
Ion Ratio Lower Upper  
43 100  
58 37.6 29.5 44.3  
85 16.1 12.9 19.3





#59

2-Hexanone

Concen: 488.118 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 708849

Ion Ratio Lower Upper

43 100

58 53.0 41.6 62.4

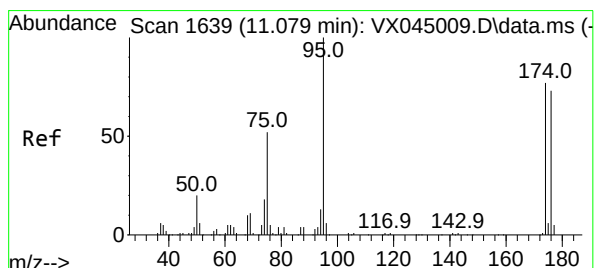
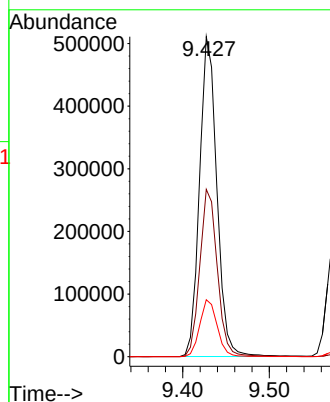
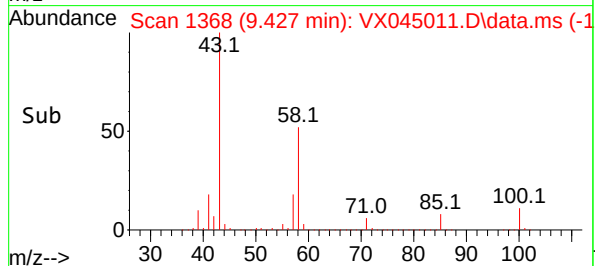
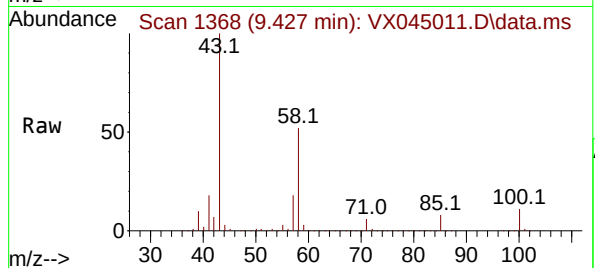
57 18.1 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#60

4-Bromofluorobenzene

Concen: 30.096 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

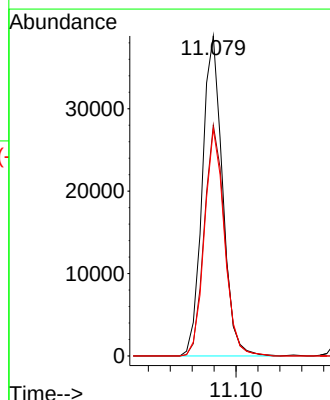
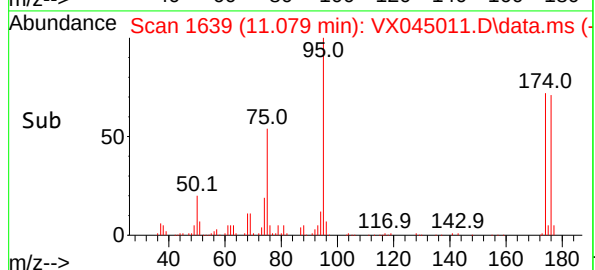
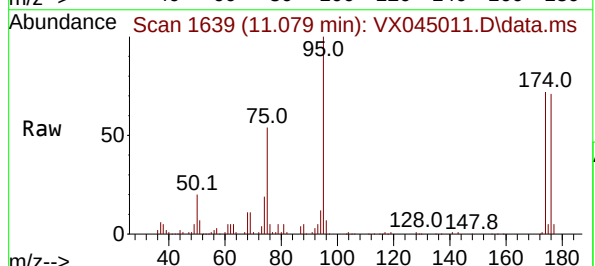
Tgt Ion: 95 Resp: 49683

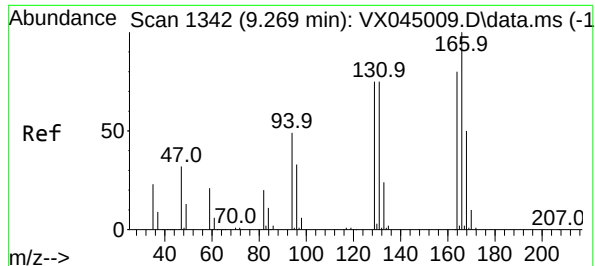
Ion Ratio Lower Upper

95 100

174 72.2 59.5 89.3

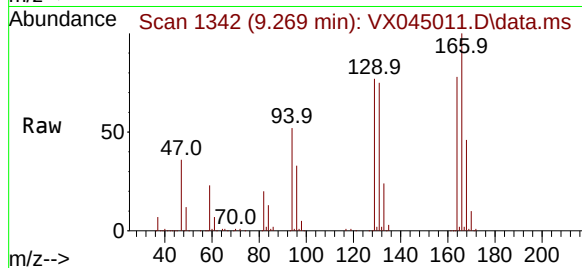
176 70.1 55.5 83.3





#61  
Tetrachloroethene  
Concen: 96.410 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

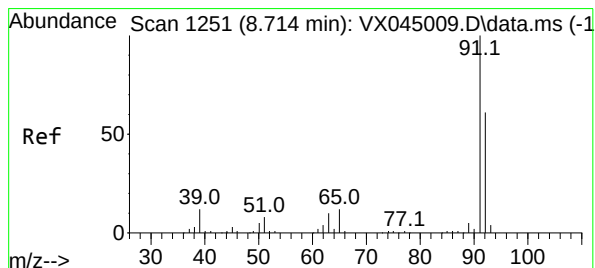
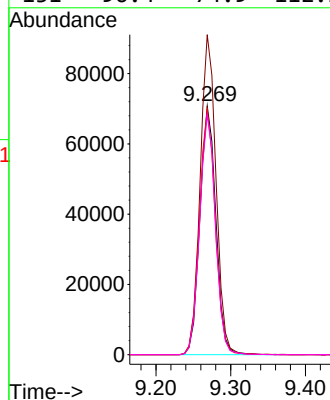
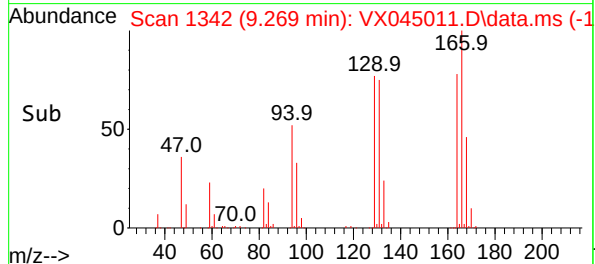
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:164 Resp: 104854  
Ion Ratio Lower Upper  
164 100  
166 128.7 100.3 150.5  
129 98.8 75.5 113.3  
131 96.4 74.9 112.3

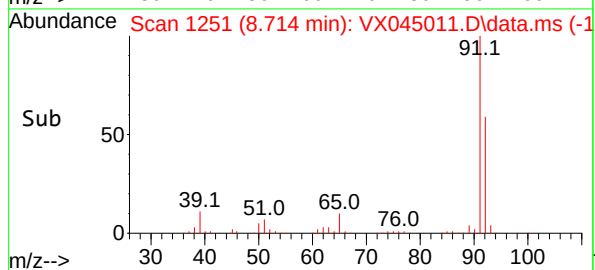
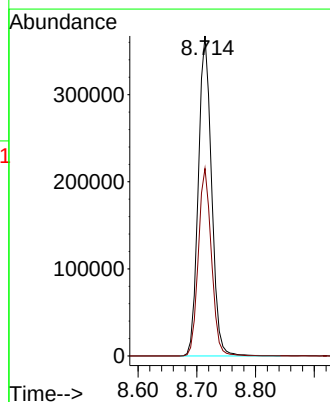
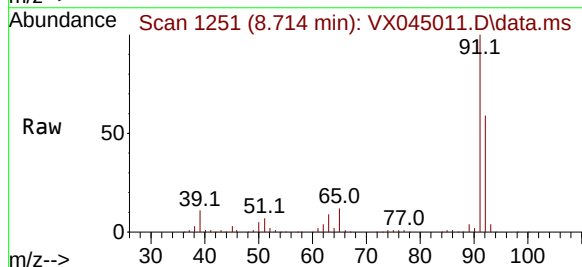
Manual Integrations  
APPROVED

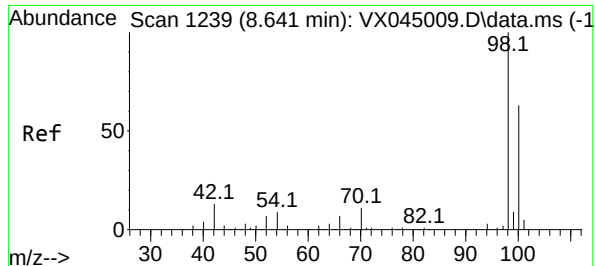
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#62  
Toluene  
Concen: 98.410 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 575772  
Ion Ratio Lower Upper  
91 100  
92 57.9 46.9 70.3





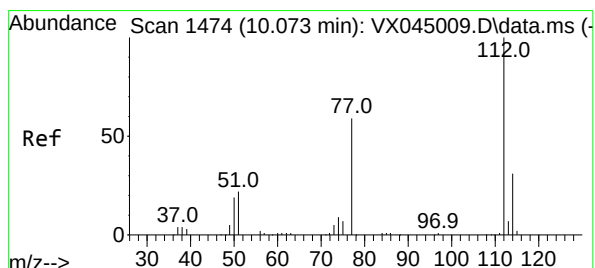
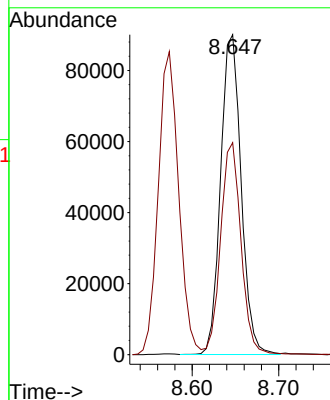
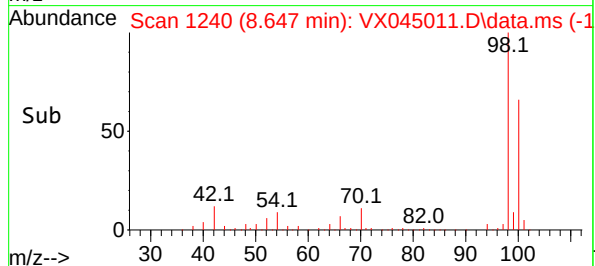
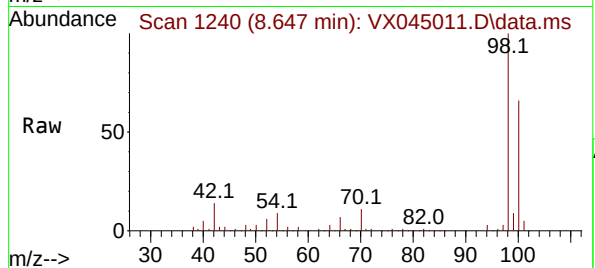
#63  
Toluene-d8  
Concen: 30.306 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 98 Resp: 148078  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.7 77.5

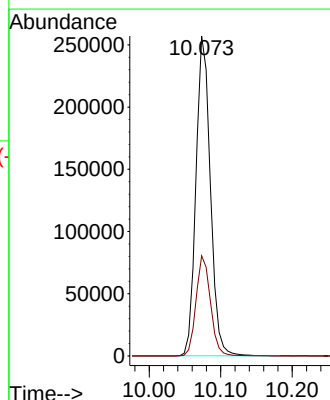
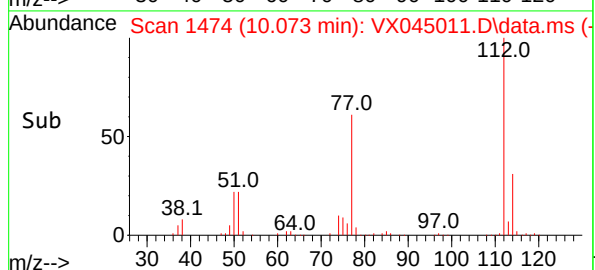
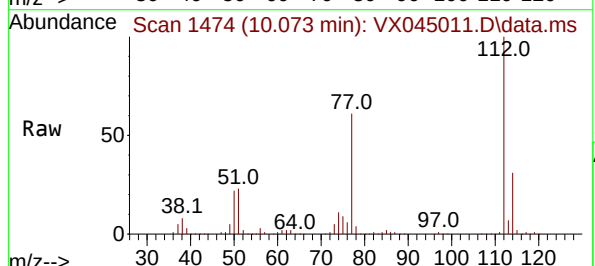
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

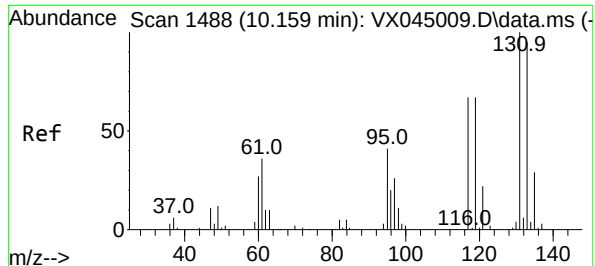


#64  
Chlorobenzene  
Concen: 99.055 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:112 Resp: 359123  
Ion Ratio Lower Upper  
112 100  
114 31.3 24.7 37.1

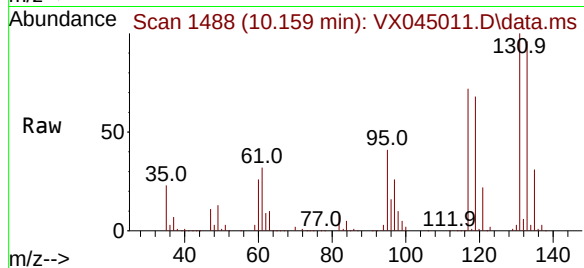






#65  
1,1,1,2-Tetrachloroethane  
Concen: 98.304 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

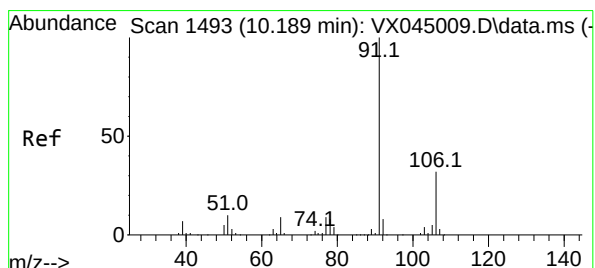
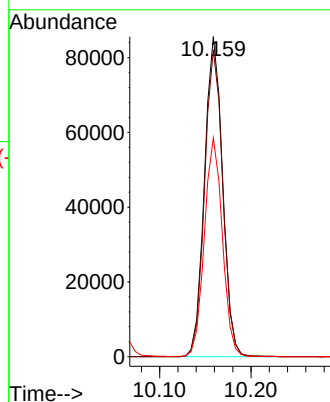
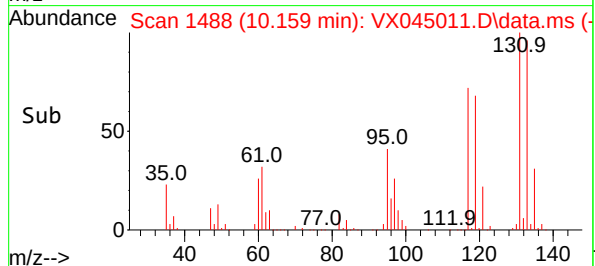
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:131 Resp: 117602  
Ion Ratio Lower Upper  
131 100  
133 96.2 0.0 187.8  
119 67.9 0.0 133.0

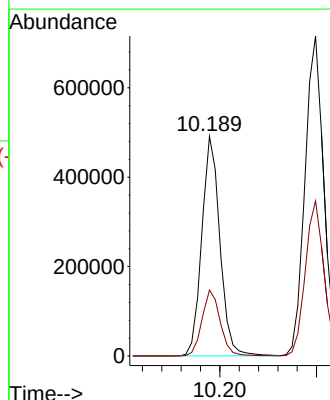
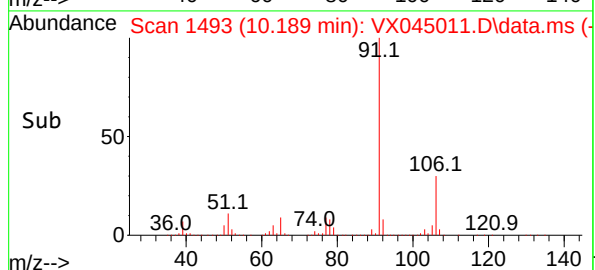
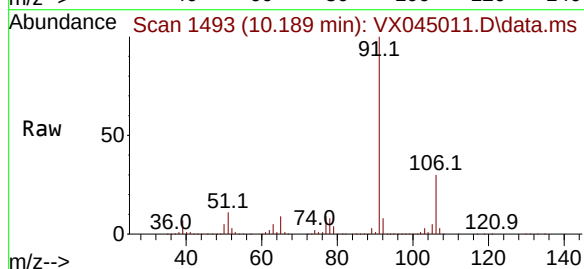
Manual Integrations  
APPROVED

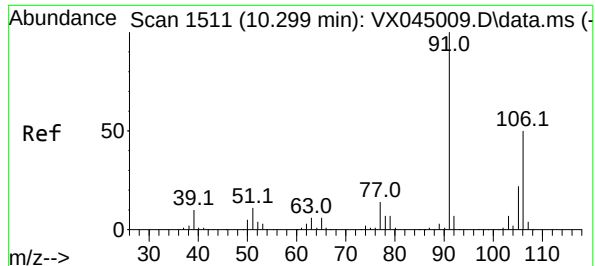
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#66  
Ethyl Benzene  
Concen: 100.122 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 641324  
Ion Ratio Lower Upper  
91 100  
106 30.0 25.4 38.2





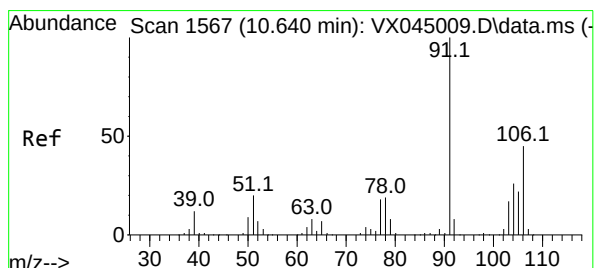
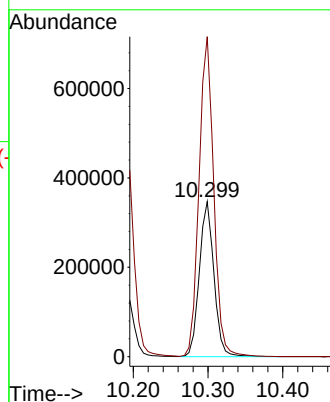
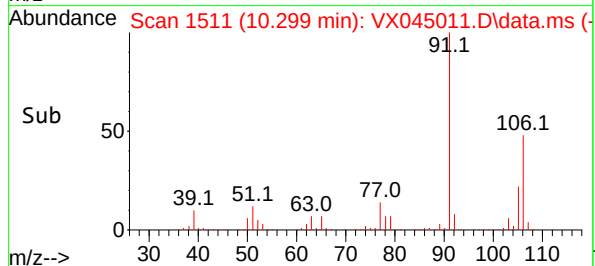
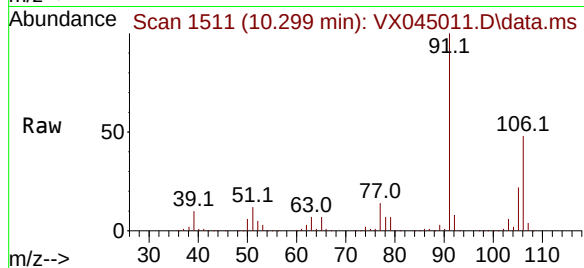
#67  
m/p-Xylenes  
Concen: 197.072 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion:106 Resp: 47032  
Ion Ratio Lower Upper  
106 100  
91 207.5 163.7 245.5

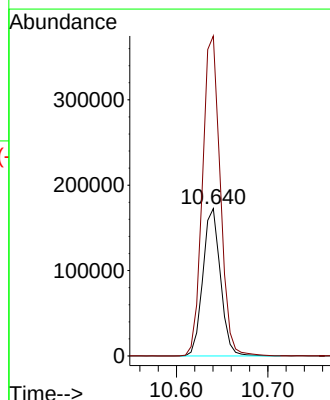
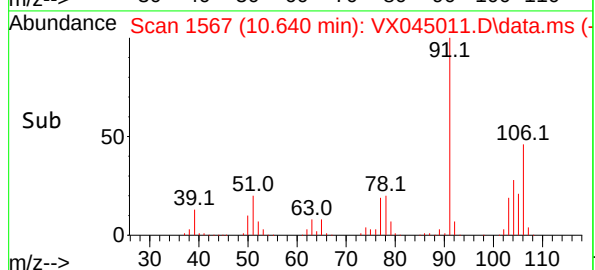
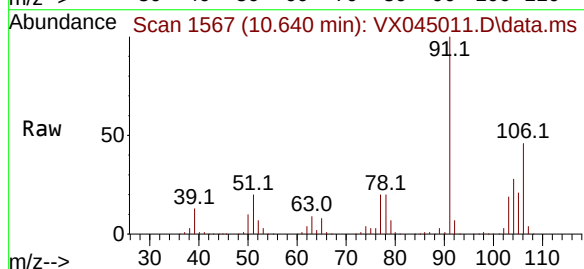
Manual Integrations  
APPROVED

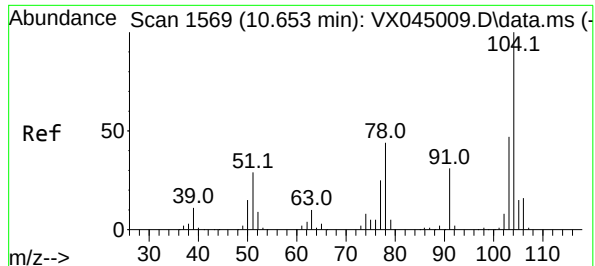
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#68  
o-Xylene  
Concen: 98.392 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:106 Resp: 230392  
Ion Ratio Lower Upper  
106 100  
91 219.4 109.7 329.1





#69

Styrene

Concen: 99.067 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC100

Tgt Ion:104 Resp: 387430

Ion Ratio Lower Upper

104 100

78 53.3 41.4 62.0

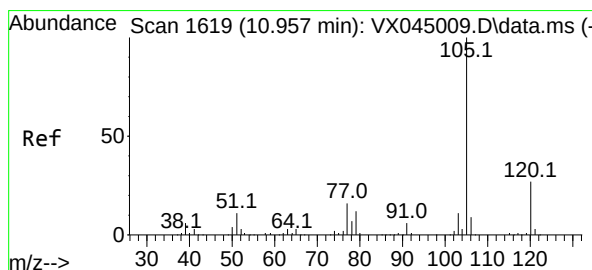
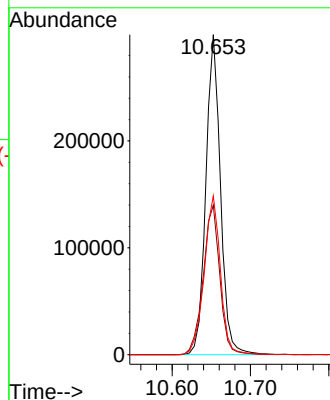
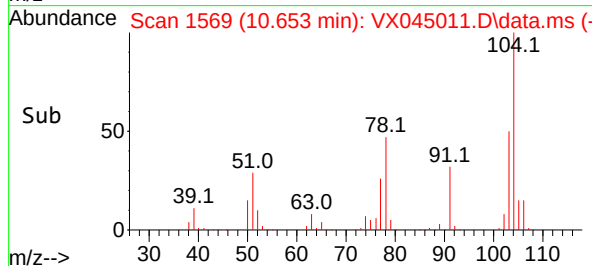
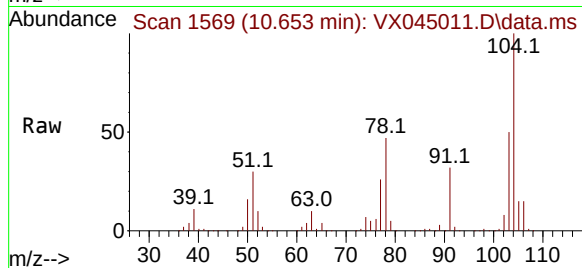
103 55.1 43.0 64.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#70

Isopropylbenzene

Concen: 98.698 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX045011.D

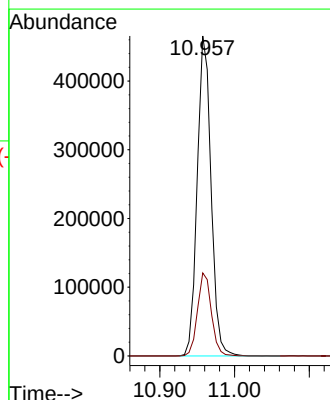
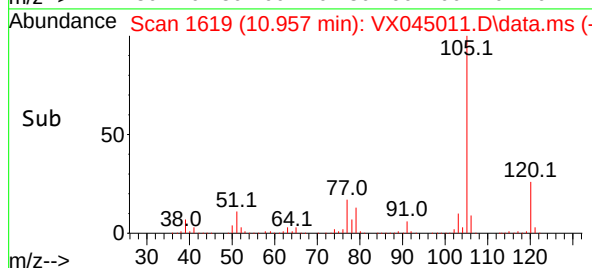
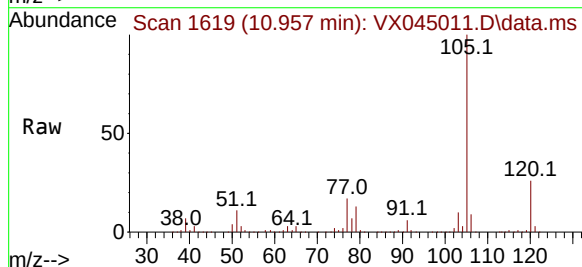
Acq: 21 Feb 2025 11:07

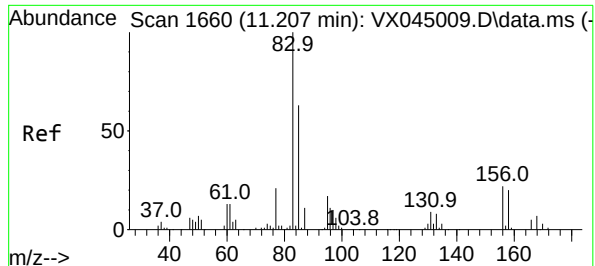
Tgt Ion:105 Resp: 596402

Ion Ratio Lower Upper

105 100

120 26.1 18.4 34.2





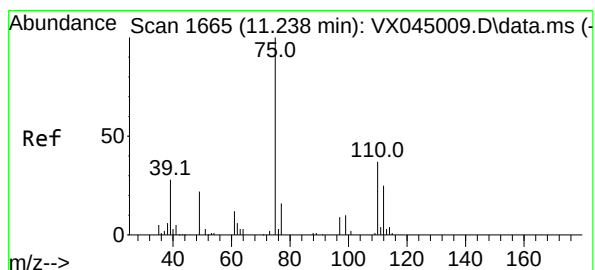
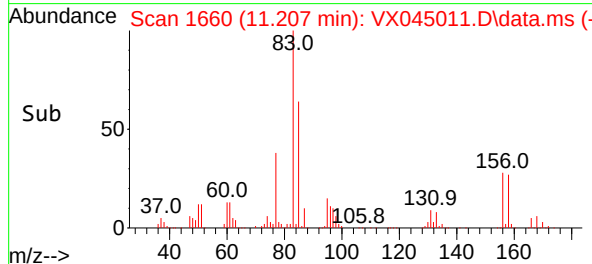
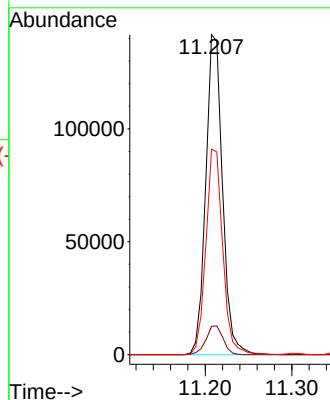
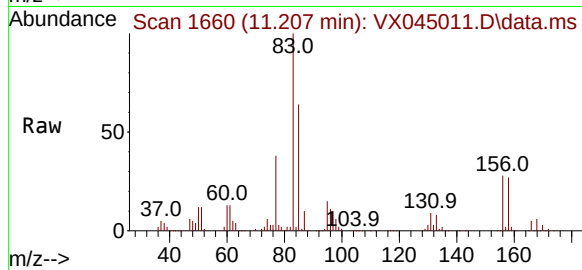
#71  
1,1,2,2-Tetrachloroethane  
Concen: 95.916 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tgt Ion: 83 Resp: 190594  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 64.5 32.3 96.8

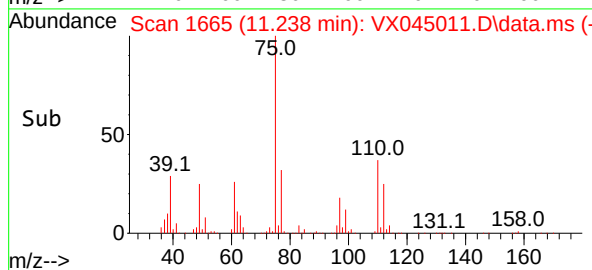
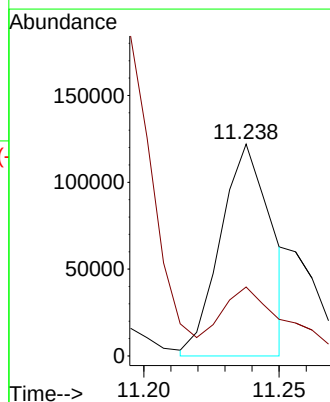
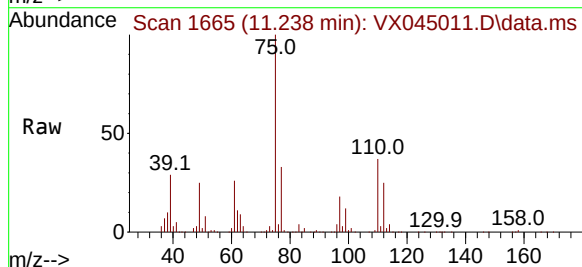
Manual Integrations  
APPROVED

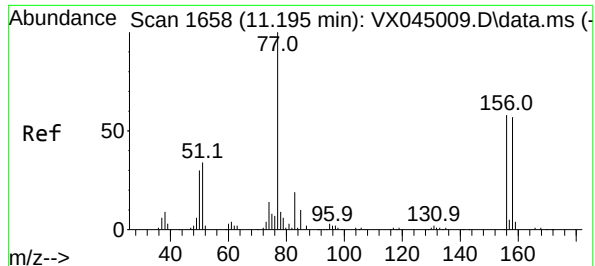
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 97.283 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

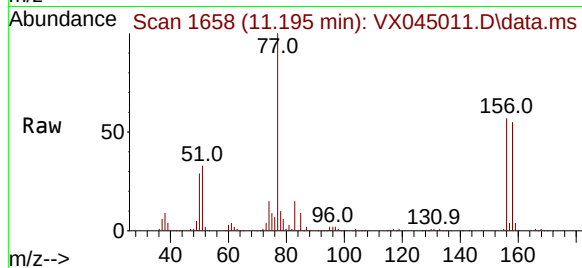
Tgt Ion: 75 Resp: 158994  
Ion Ratio Lower Upper  
75 100  
77 42.6 0.0 84.0





#73  
Bromobenzene  
Concen: 97.960 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

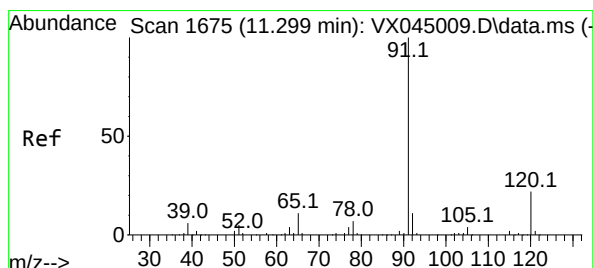
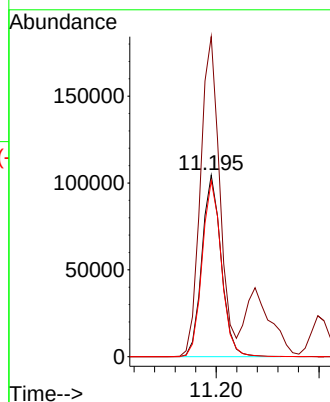
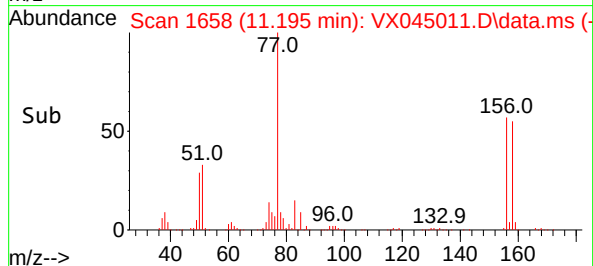
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:156 Resp: 136270  
Ion Ratio Lower Upper  
156 100  
77 176.6 0.0 347.2  
158 96.3 0.0 197.6

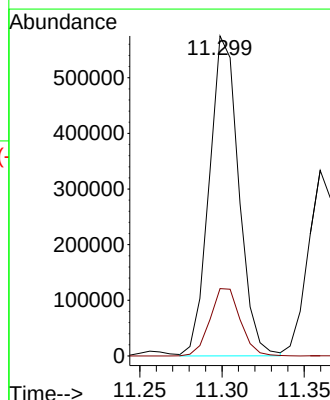
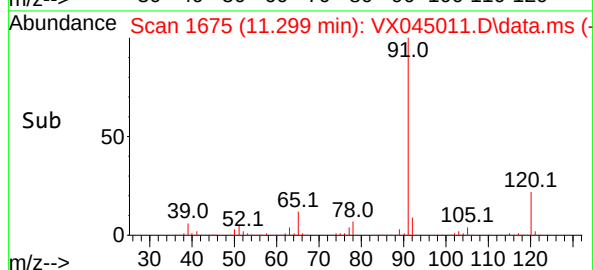
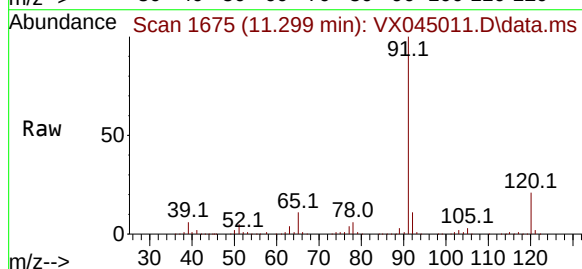
Manual Integrations  
APPROVED

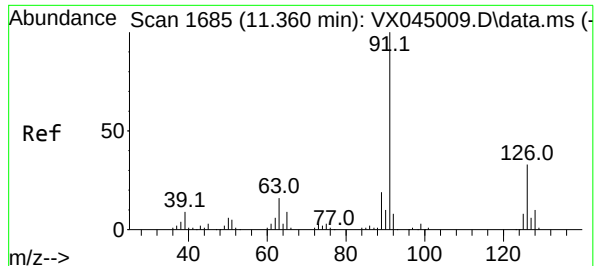
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#74  
n-propylbenzene  
Concen: 99.759 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 717361  
Ion Ratio Lower Upper  
91 100  
120 21.7 0.0 44.2





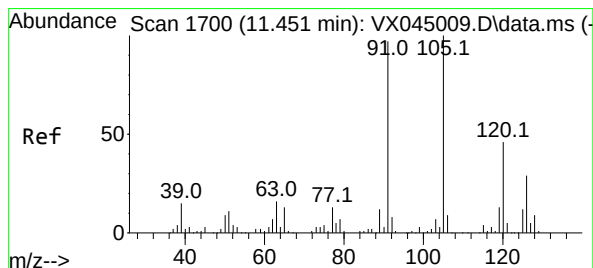
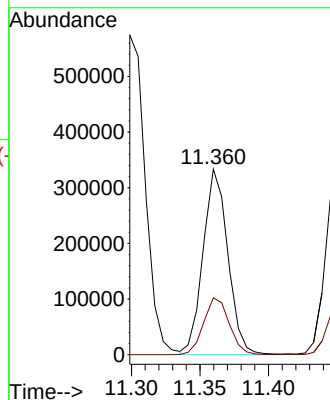
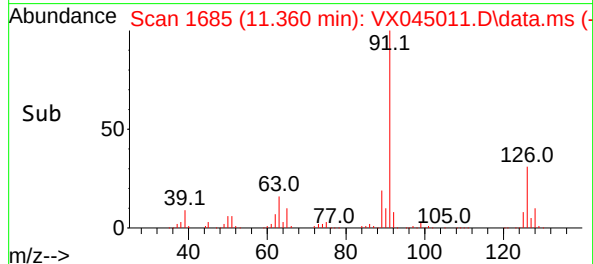
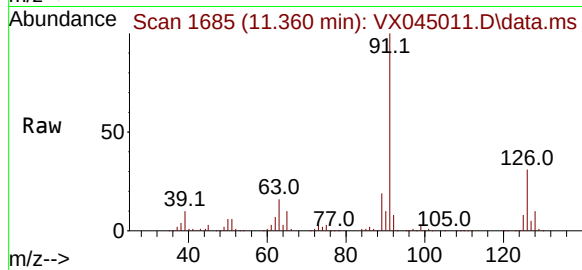
#75  
2-Chlorotoluene  
Concen: 96.938 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

Tgt Ion: 91 Resp: 421424  
Ion Ratio Lower Upper  
91 100  
126 31.7 0.0 65.4

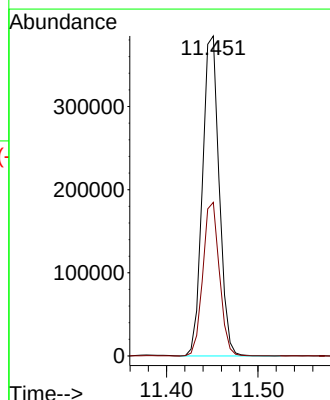
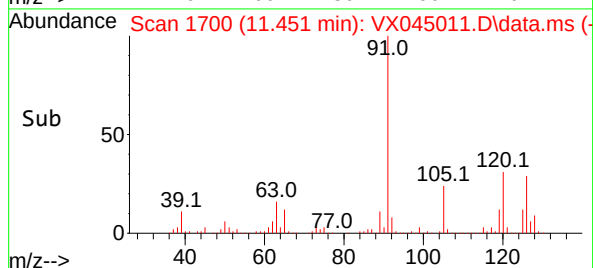
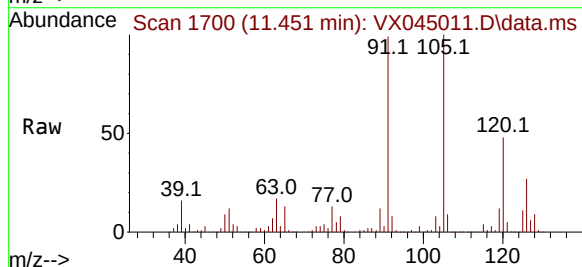
Manual Integrations  
APPROVED

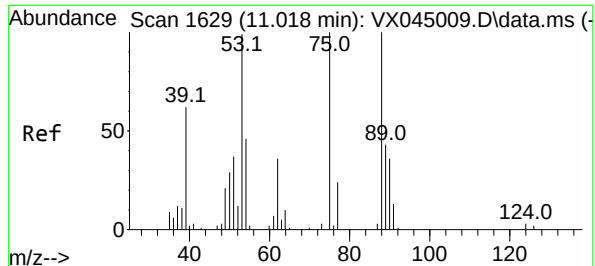
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 97.701 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 487050  
Ion Ratio Lower Upper  
105 100  
120 47.8 0.0 94.4





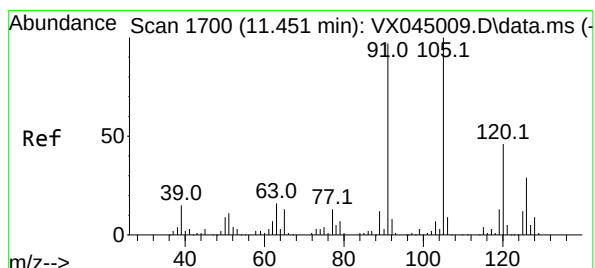
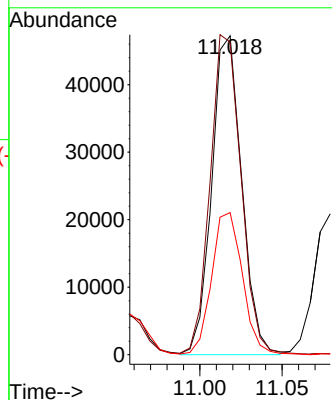
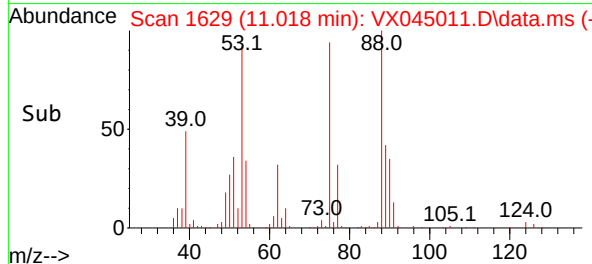
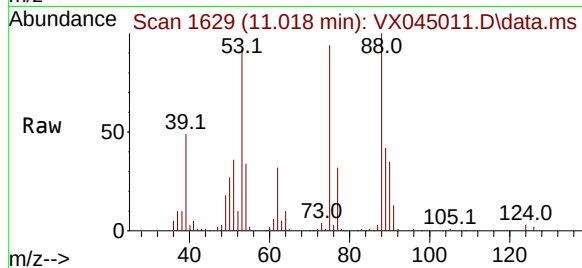
#77  
t-1,4-Dichloro-2-butene  
Concen: 108.886 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

| Tgt Ion:  | 75    | Resp: | 5987  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 98.0  | 49.8  | 149.4 |
| 89        | 44.5  | 21.4  | 64.2  |

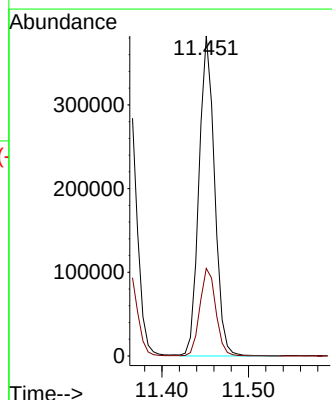
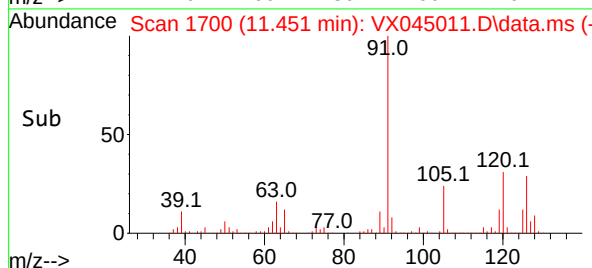
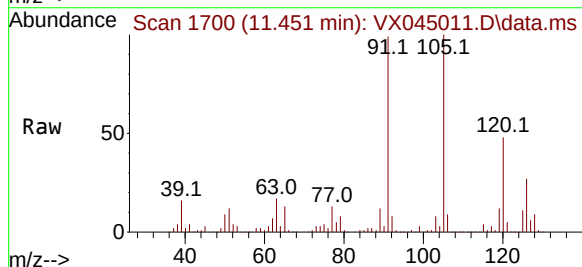
Manual Integrations  
APPROVED

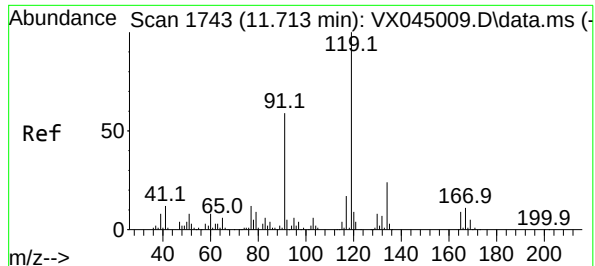
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#78  
4-Chlorotoluene  
Concen: 98.607 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

| Tgt Ion:  | 91    | Resp: | 477861 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 27.9  | 0.0   | 58.0   |





#79

tert-butylbenzene

Concen: 97.716 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 490810

Ion Ratio Lower Upper

119 100

91 60.1 0.0 120.6

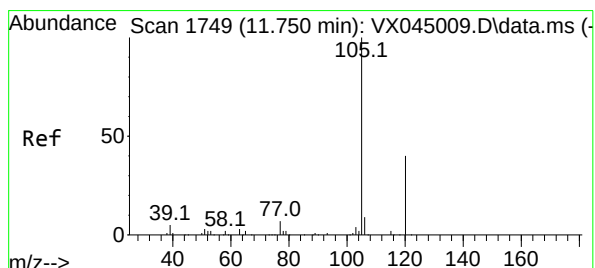
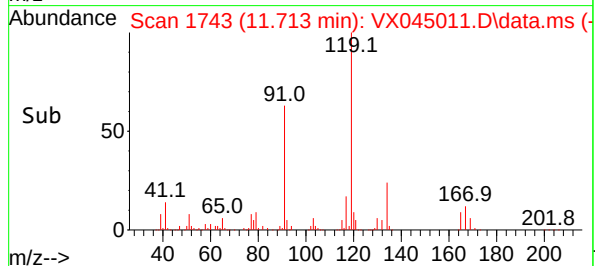
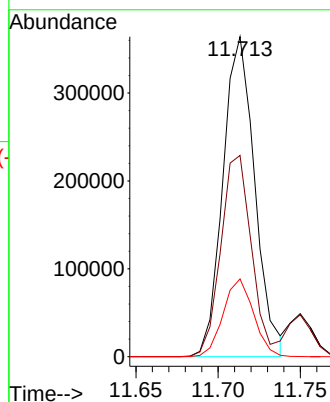
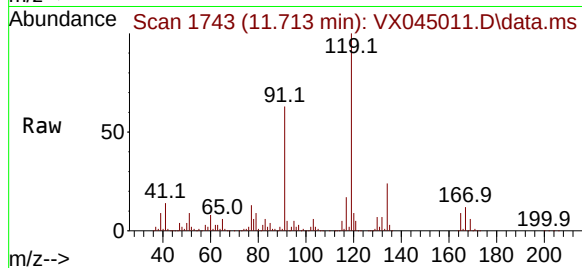
134 23.2 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#80

1,2,4-Trimethylbenzene

Concen: 97.478 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045011.D

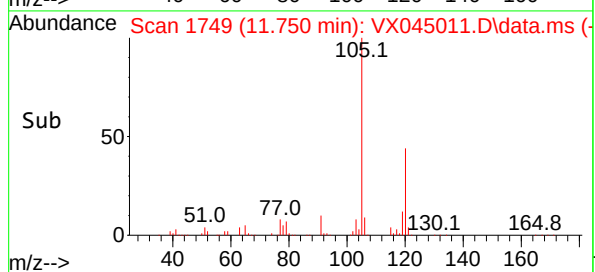
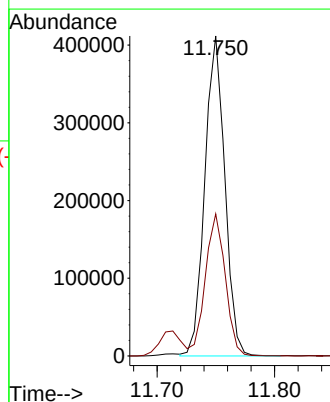
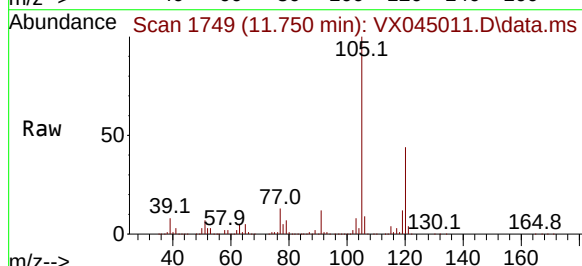
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 486770

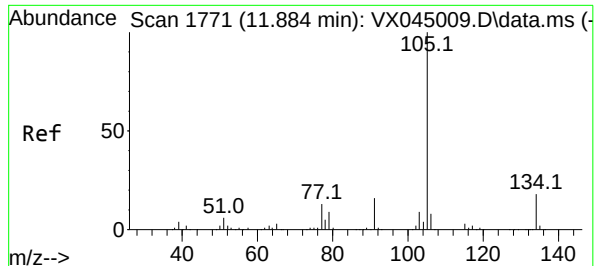
Ion Ratio Lower Upper

105 100

120 44.4 0.0 88.4

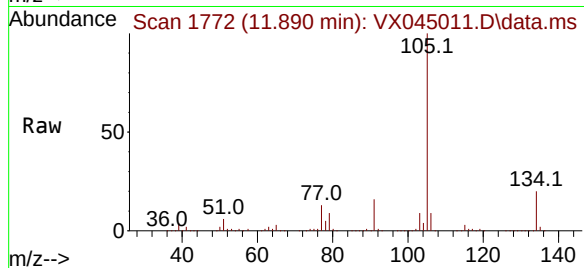






#81  
sec-Butylbenzene  
Concen: 97.788 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. 0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

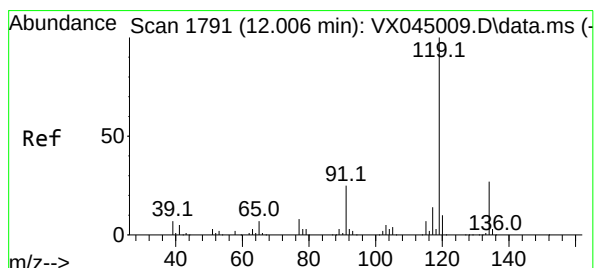
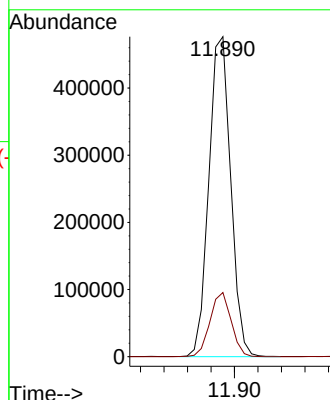
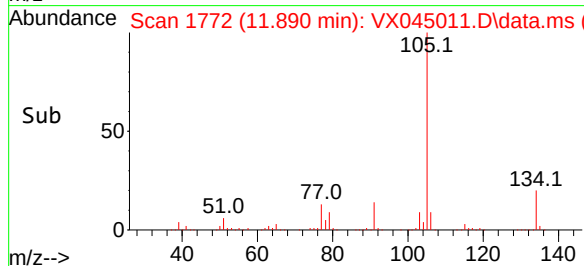
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:105 Resp: 616448  
Ion Ratio Lower Upper  
105 100  
134 19.5 0.0 39.0

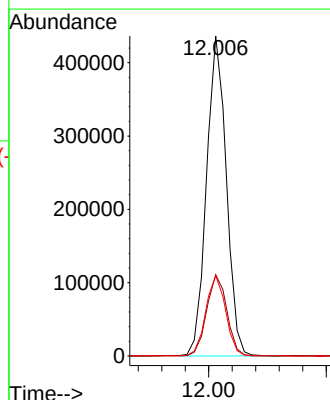
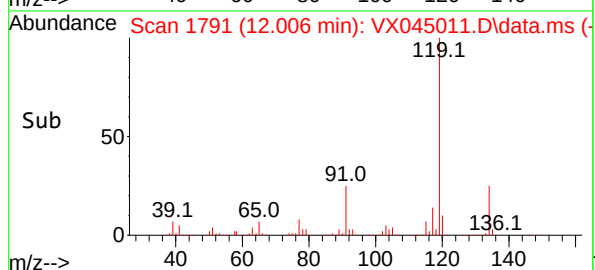
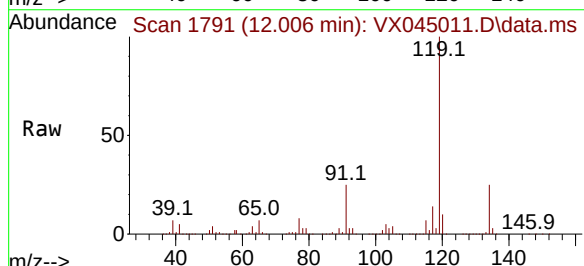
Manual Integrations  
APPROVED

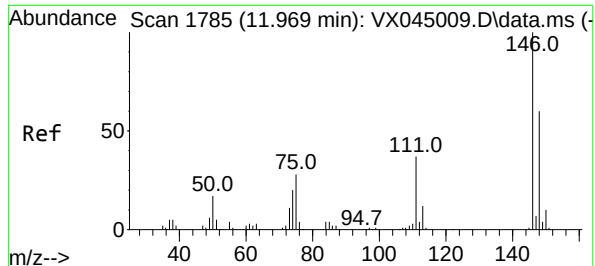
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#82  
p-Isopropyltoluene  
Concen: 99.893 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

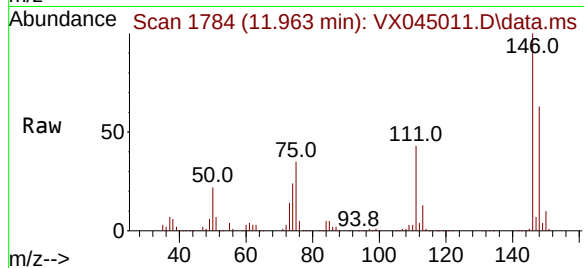
Tgt Ion:119 Resp: 510223  
Ion Ratio Lower Upper  
119 100  
134 25.8 0.0 52.6  
91 25.1 0.0 51.0





#83  
1,3-Dichlorobenzene  
Concen: 96.883 ug/l  
RT: 11.963 min Scan# 1784  
Delta R.T. -0.006 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

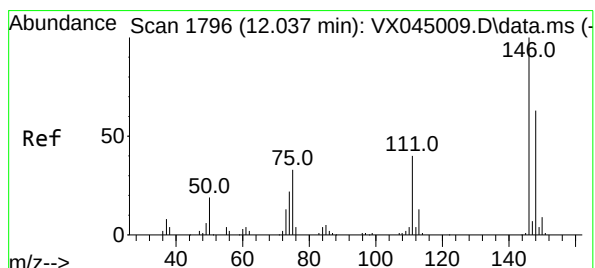
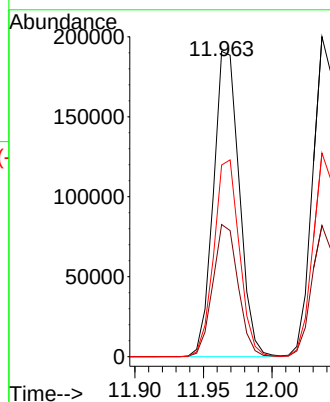
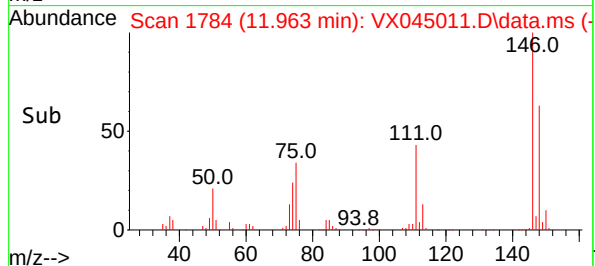
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:146 Resp: 250758  
Ion Ratio Lower Upper  
146 100  
111 42.3 20.2 60.5  
148 63.5 31.2 93.6

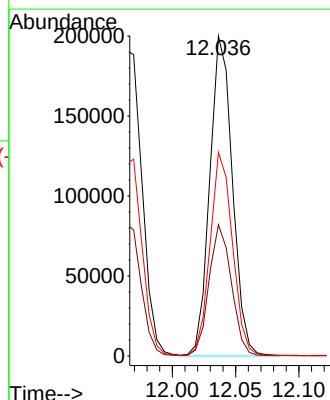
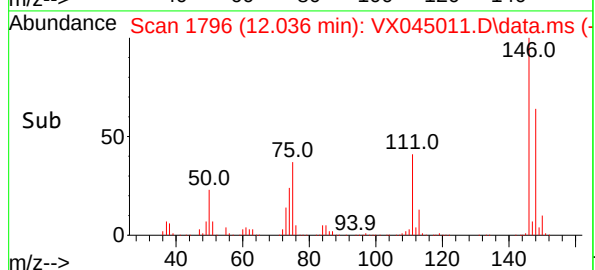
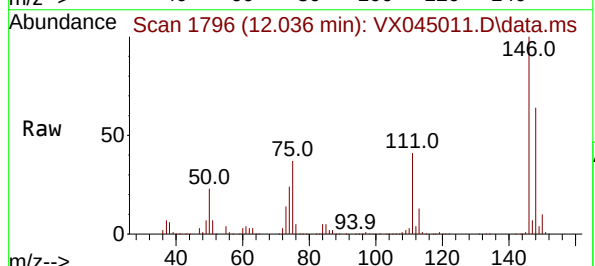
Manual Integrations  
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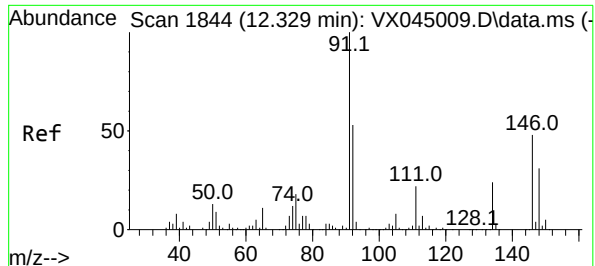
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#84  
1,4-Dichlorobenzene  
Concen: 97.834 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:146 Resp: 249668  
Ion Ratio Lower Upper  
146 100  
111 40.5 20.4 61.2  
148 63.2 31.8 95.4





#85

n-Butylbenzene

Concen: 102.150 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 47645

Ion Ratio Lower Upper

91 100

92 53.7 0.0 105.2

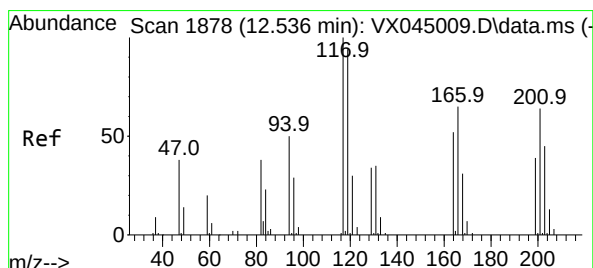
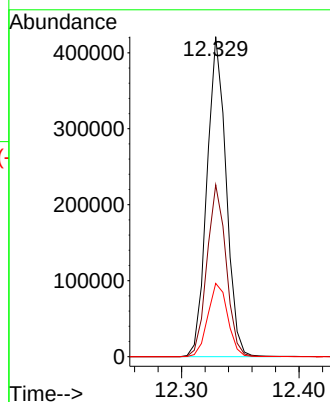
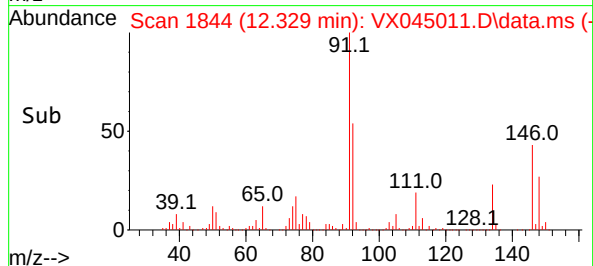
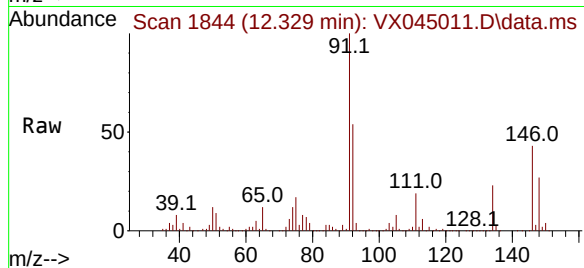
134 23.8 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#86

Hexachloroethane

Concen: 102.679 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045011.D

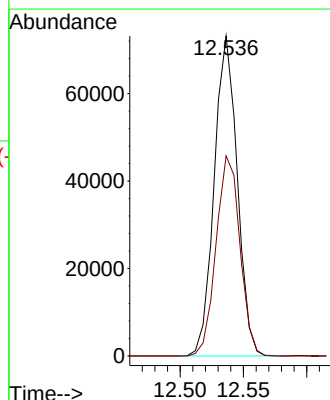
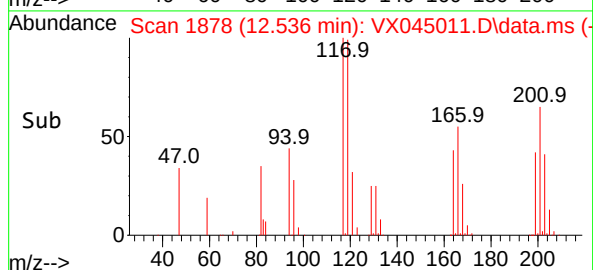
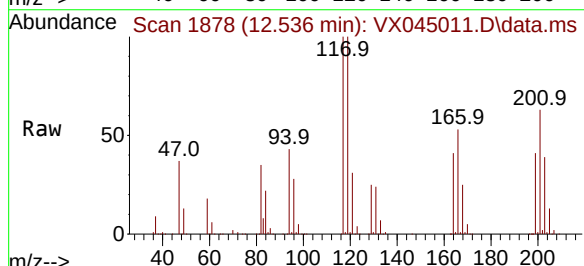
Acq: 21 Feb 2025 11:07

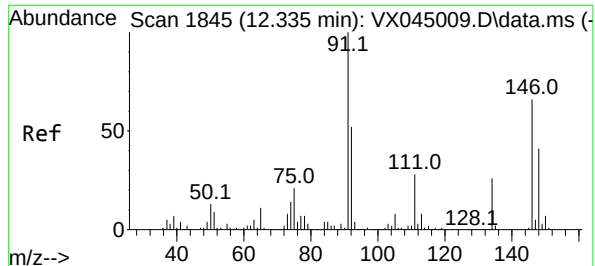
Tgt Ion:117 Resp: 92493

Ion Ratio Lower Upper

117 100

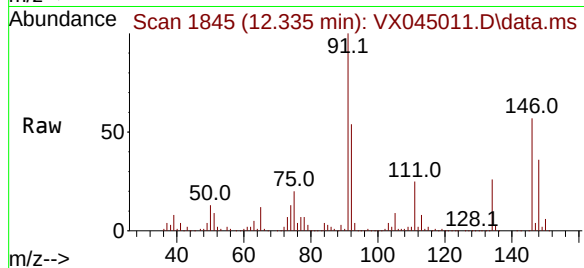
201 64.8 32.6 97.7





#87  
1,2-Dichlorobenzene  
Concen: 94.528 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

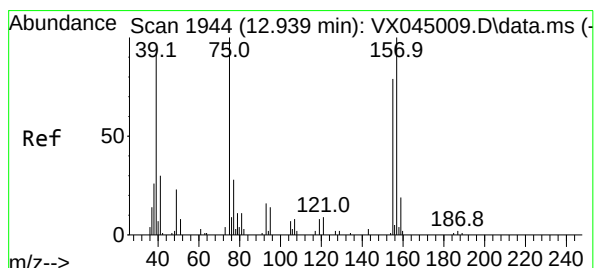
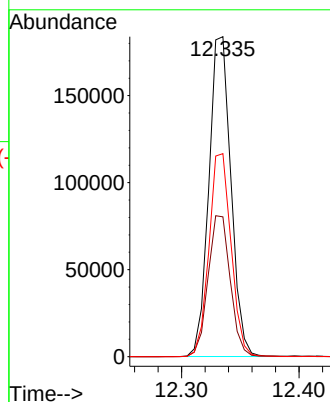
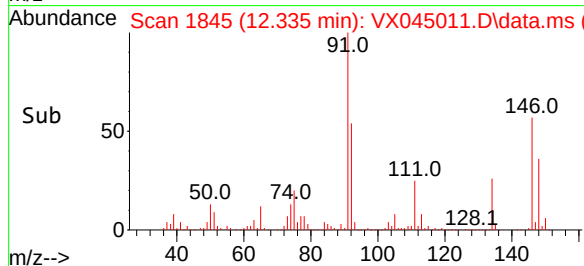
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:146 Resp: 240050  
Ion Ratio Lower Upper  
146 100  
111 44.4 21.7 65.1  
148 63.5 31.8 95.4

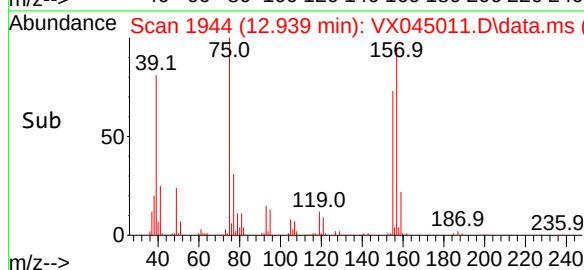
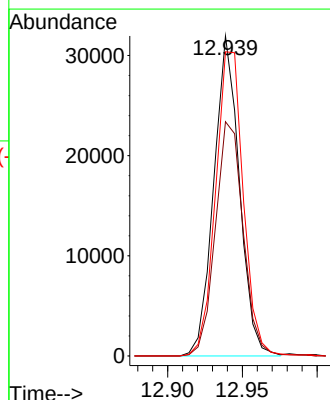
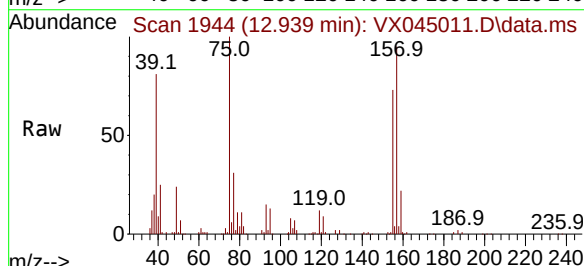
Manual Integrations  
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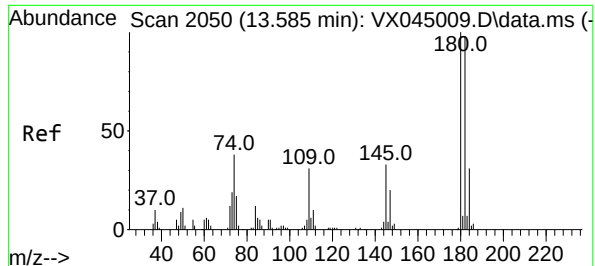
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 98.669 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 37960  
Ion Ratio Lower Upper  
75 100  
155 79.6 66.2 99.4  
157 103.3 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 103.039 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 158594

Ion Ratio Lower Upper

180 100

182 94.7 77.7 116.5

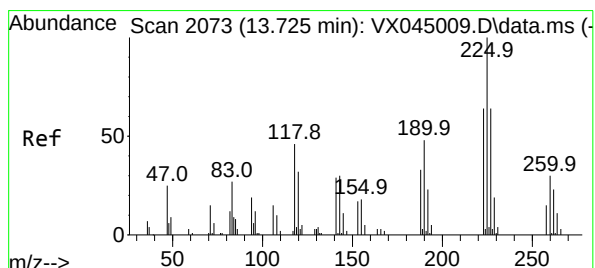
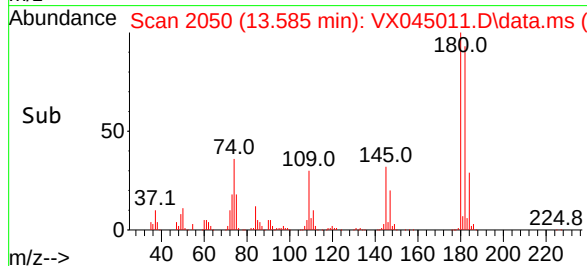
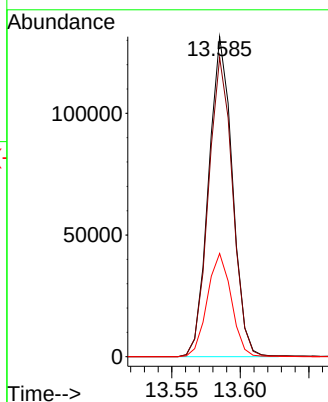
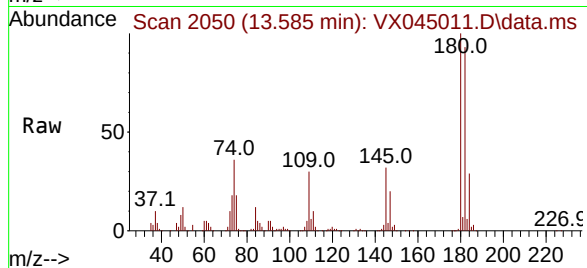
145 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#90

Hexachlorobutadiene

Concen: 96.489 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX045011.D

Acq: 21 Feb 2025 11:07

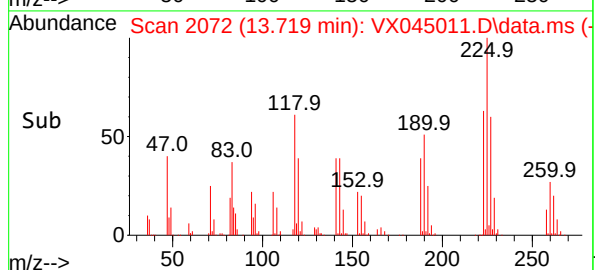
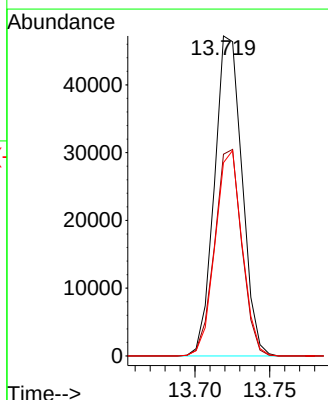
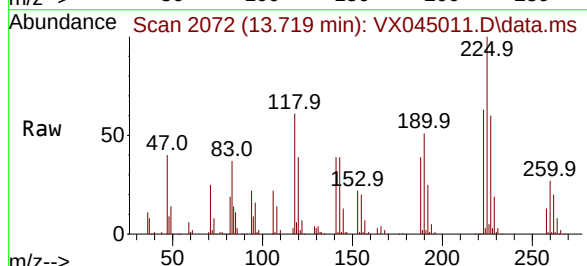
Tgt Ion:225 Resp: 60565

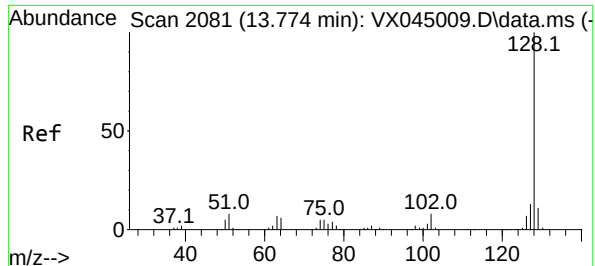
Ion Ratio Lower Upper

225 100

223 63.5 0.0 123.4

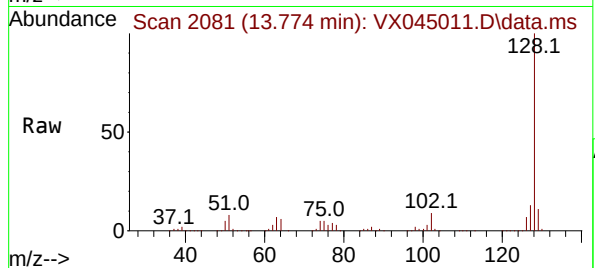
227 62.6 0.0 127.4





#91  
Naphthalene  
Concen: 100.977 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

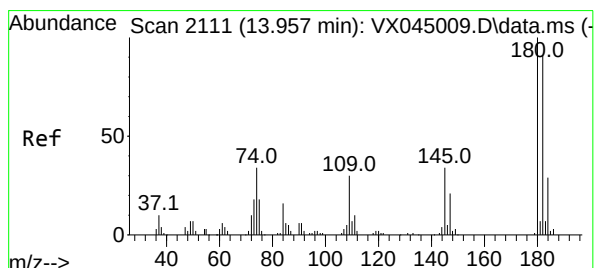
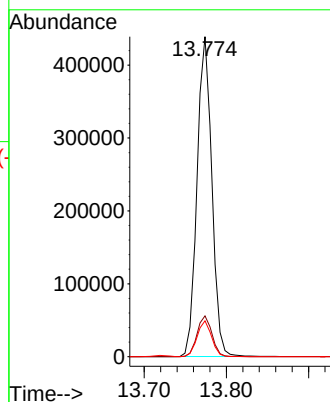
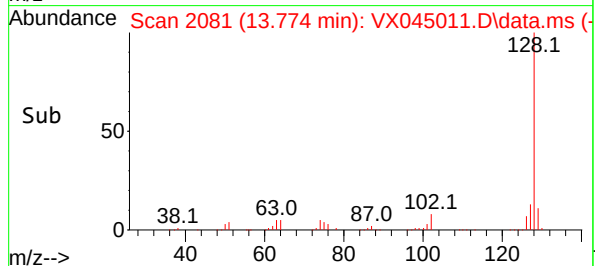
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100



Tgt Ion:128 Resp: 548020  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.5 15.7  
129 11.0 8.7 13.1

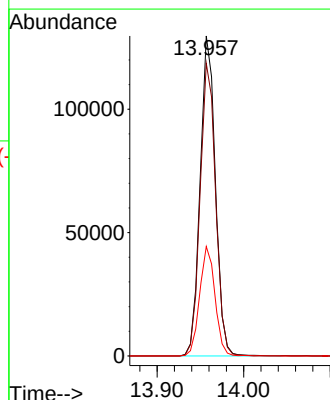
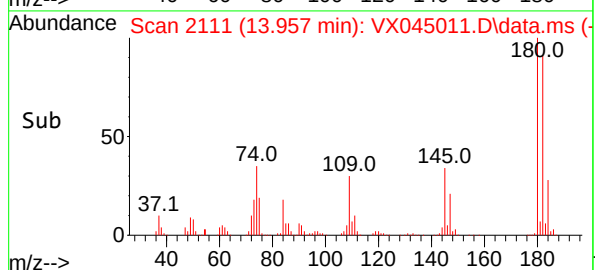
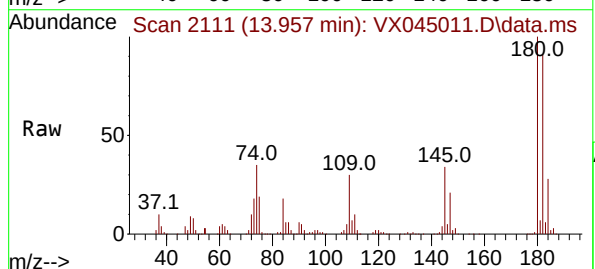
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 100.267 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX045011.D  
Acq: 21 Feb 2025 11:07

Tgt Ion:180 Resp: 158881  
Ion Ratio Lower Upper  
180 100  
182 92.9 0.0 186.6  
145 34.3 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045012.D  
 Acq On : 21 Feb 2025 11:29  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
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Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:49:47 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.891          | 128  | 15390               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757          | 114  | 91158               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 81702               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952          | 65   | 46852               | 31.344  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 104.467% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 47199               | 30.907  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 103.033% |         |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 134852              | 29.835  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.467%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 205354              | 158.286 | ug/l   | 96       |
| 3) Chloromethane             | 1.295          | 50   | 242022              | 155.752 | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 240390              | 160.323 | ug/l   | 100      |
| 5) Bromomethane              | 1.593          | 94   | 81221               | 155.617 | ug/l   | 97       |
| 6) Chloroethane              | 1.660          | 64   | 93284               | 114.868 | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.868          | 101  | 320914              | 159.243 | ug/l   | 97       |
| 8) Diethyl Ether             | 2.130          | 74   | 121707              | 159.619 | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 191867              | 160.302 | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.307          | 96   | 191658              | 163.938 | ug/l   | 90       |
| 11) Methyl Iodide            | 2.447          | 142  | 247014              | 186.677 | ug/l   | 97       |
| 12) Methyl Acetate           | 2.703          | 43   | 226419              | 166.780 | ug/l   | 99       |
| 13) Acrolein                 | 2.233          | 56   | 233841              | 859.331 | ug/l   | 99       |
| 14) Acrylonitrile            | 3.062          | 53   | 532462              | 802.955 | ug/l   | 99       |
| 15) Acetone                  | 2.386          | 58   | 137785              | 757.609 | ug/l   | 98       |
| 16) Carbon Disulfide         | 2.502          | 76   | 548971              | 165.547 | ug/l   | 99       |
| 17) Allyl chloride           | 2.654          | 41   | 362889              | 165.958 | ug/l   | 100      |
| 18) Methylene Chloride       | 2.782          | 84   | 211221              | 160.628 | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 3.087          | 96   | 192443              | 162.701 | ug/l   | 97       |
| 20) Diisopropyl ether        | 3.757          | 45   | 684590              | 162.921 | ug/l # | 84       |
| 21) 1,1-Dichloroethane       | 3.599          | 63   | 379249              | 162.287 | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.483          | 96   | 230636              | 162.719 | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 3.014          | 59   | 185225m             | 799.131 | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 628626              | 164.746 | ug/l   | 100      |
| 25) Chloroform               | 5.087          | 83   | 367141              | 162.652 | ug/l   | 100      |
| 26) Cyclohexane              | 5.464          | 56   | 351233              | 162.829 | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.684          | 75   | 260684              | 155.458 | ug/l   | 99       |
| 30) 2-Butanone               | 4.550          | 43   | 735492              | 759.373 | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 304225              | 160.447 | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 316595              | 155.824 | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.672          | 117  | 264905              | 154.492 | ug/l   | 98       |
| 34) Benzene                  | 6.031          | 78   | 800159              | 152.163 | ug/l   | 99       |
| 35) Methacrylonitrile        | 4.916          | 41   | 162761              | 157.037 | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 276707              | 153.695 | ug/l   | 97       |
| 37) Trichloroethene          | 7.117          | 130  | 189307              | 153.878 | ug/l   | 96       |
| 38) Methylcyclohexane        | 7.373          | 83   | 350907              | 155.851 | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.421          | 63   | 202146              | 154.621 | ug/l   | 98       |
| 40) Dibromomethane           | 7.574          | 93   | 143641              | 153.109 | ug/l   | 99       |
| 41) Bromodichloromethane     | 7.818          | 83   | 291108              | 156.122 | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.715          | 43   | 2988086             | 795.020 | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045012.D  
 Acq On : 21 Feb 2025 11:29  
 Operator : JC/MD  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:49:47 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 43) Ethyl Acetate             | 4.709  | 43   | 292788   | 161.195  | ug/l  | 97       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 490033   | 163.920  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 7.665  | 88   | 91297    | 2937.775 | ug/l  | 98       |
| 46) Methyl methacrylate       | 7.690  | 41   | 241575   | 164.798  | ug/l  | 97       |
| 47) n-amyl Acetate            | 10.842 | 43   | 438261   | 168.943  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 303740   | 169.001  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 331118   | 162.750  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 183455   | 149.917  | ug/l  | 95       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 323054   | 167.857  | ug/l  | 100      |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 327551   | 152.762  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 213326   | 157.620  | ug/l  | 97       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 194634   | 156.632  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 788934   | 798.256  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 140224   | 165.340  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1431130  | 770.025  | ug/l  | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 1054503  | 784.964  | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 149808   | 148.903  | ug/l  | 95       |
| 62) Toluene                   | 8.714  | 91   | 824606   | 152.359  | ug/l  | 100      |
| 64) Chlorobenzene             | 10.073 | 112  | 513552   | 153.126  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 175139   | 158.260  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 933862   | 157.604  | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 679028   | 307.573  | ug/l  | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 333410   | 153.922  | ug/l  | 98       |
| 69) Styrene                   | 10.653 | 104  | 566072   | 156.470  | ug/l  | 97       |
| 70) Isopropylbenzene          | 10.957 | 105  | 868382   | 155.350  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 283733   | 154.359  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 234613m  | 155.182  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 198360   | 154.147  | ug/l  | 96       |
| 74) n-propylbenzene           | 11.299 | 91   | 1049645  | 157.793  | ug/l  | 98       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 619308   | 153.997  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 707908   | 153.508  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 97507    | 191.694  | ug/l  | 99       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 704032   | 157.047  | ug/l  | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 716064   | 154.110  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 710215   | 153.746  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.890 | 105  | 910294   | 156.100  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 738494   | 156.297  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 371922   | 155.340  | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 366532   | 155.264  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 710846   | 164.749  | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 142372   | 170.855  | ug/l  | 98       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 356347   | 151.688  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 59310    | 166.653  | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 238129   | 167.248  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 90085    | 155.145  | ug/l  | 98       |
| 91) Naphthalene               | 13.774 | 128  | 829698   | 165.262  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 236181   | 161.124  | ug/l  | 99       |

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



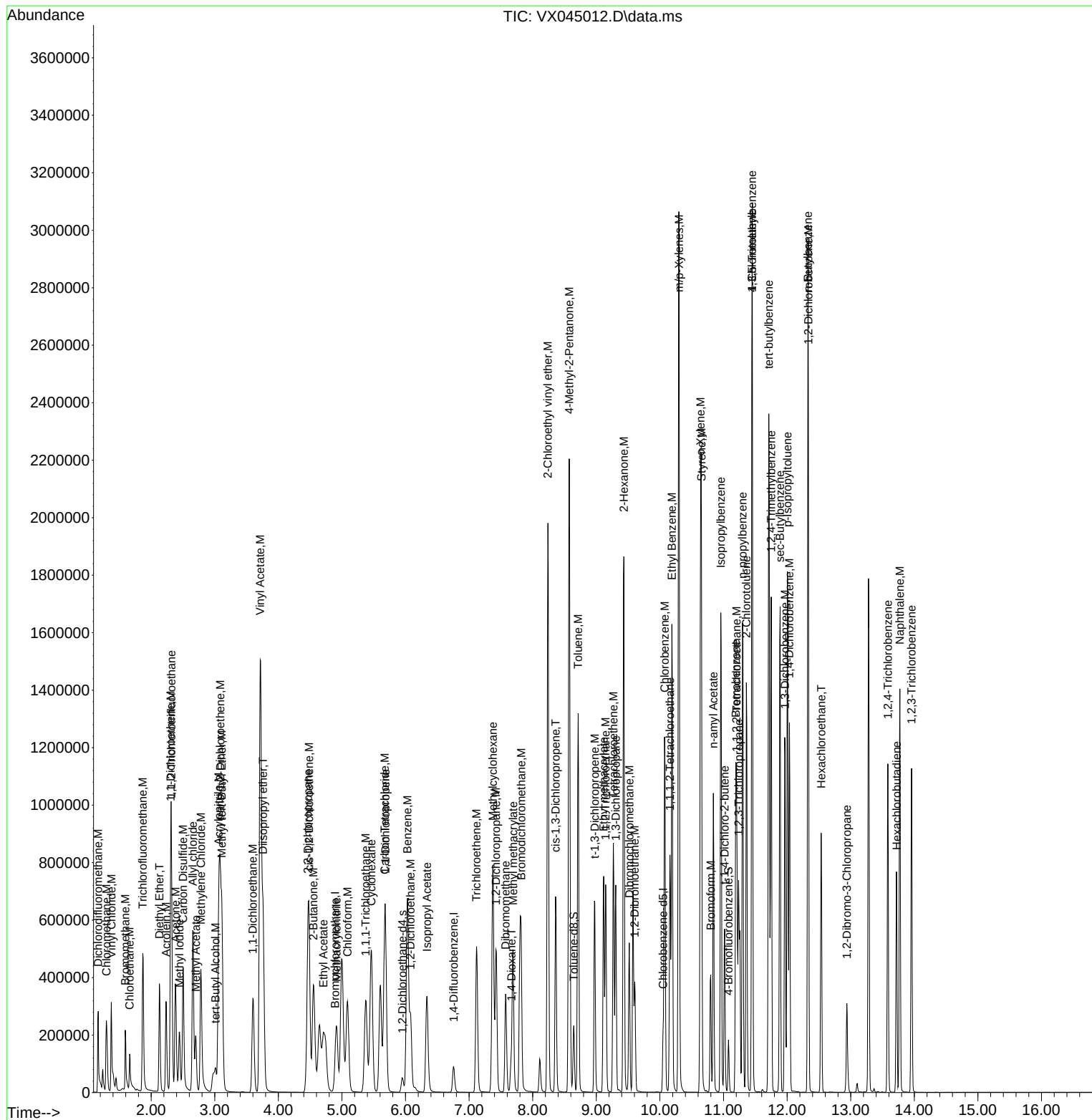
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 Data File : VX045012.D  
 Acq On : 21 Feb 2025 11:29  
 Operator : JC/MD  
 Sample : VSTDIC150  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

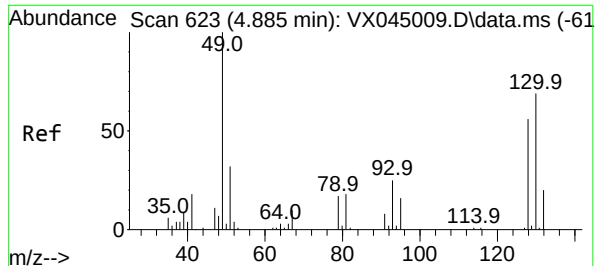
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC150

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:49:47 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 00:21:26 2025  
 Response via : Initial Calibration





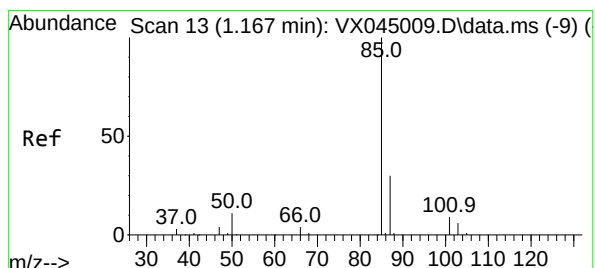
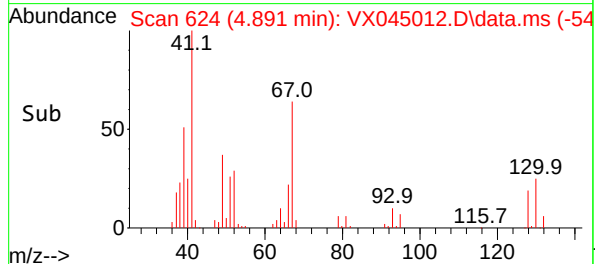
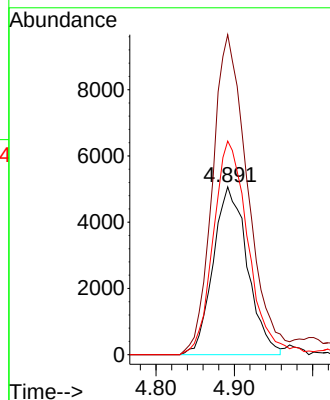
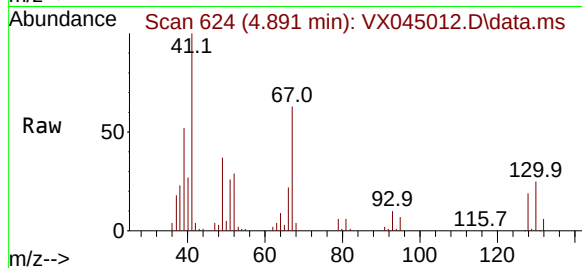
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.891 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion:128 Resp: 15390  
Ion Ratio Lower Upper  
128 100  
49 196.5 0.0 449.7  
130 128.8 0.0 312.7

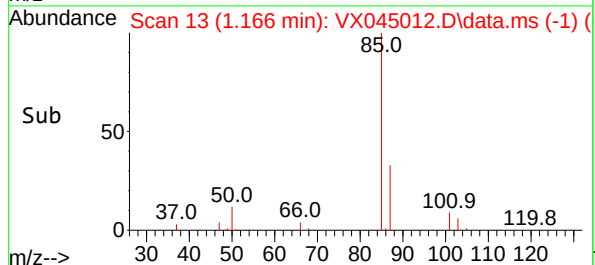
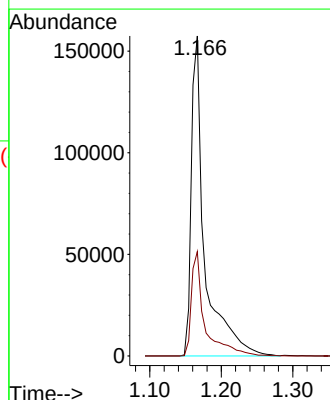
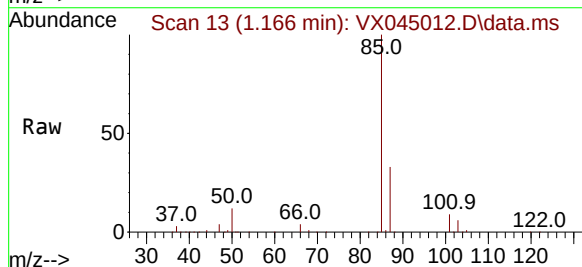
Manual Integrations  
APPROVED

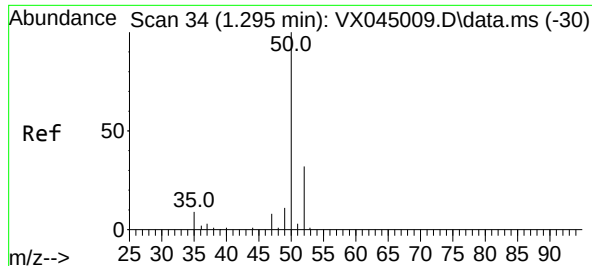
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#2  
Dichlorodifluoromethane  
Concen: 158.286 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 85 Resp: 205354  
Ion Ratio Lower Upper  
85 100  
87 32.6 15.1 45.3





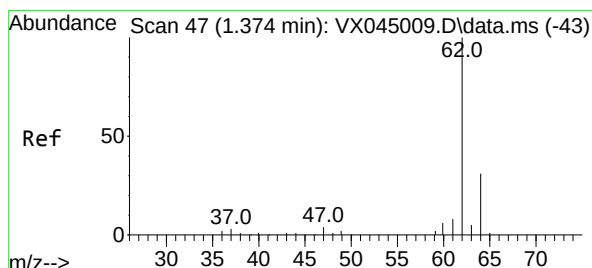
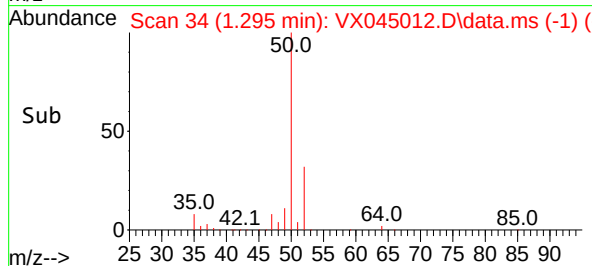
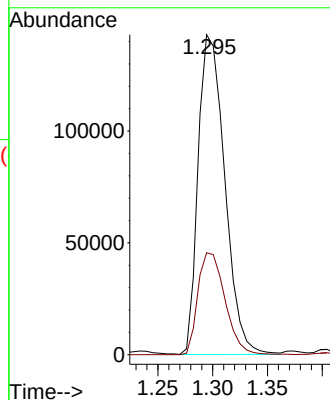
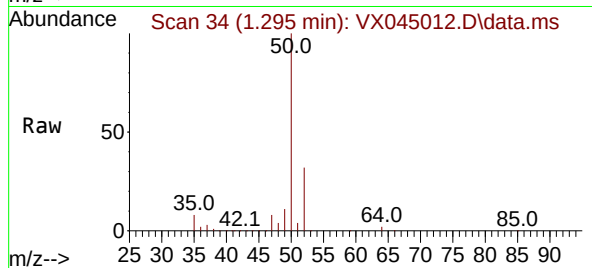
#3  
Chloromethane  
Concen: 155.752 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 50 Resp: 24202  
Ion Ratio Lower Upper  
50 100  
52 31.9 25.7 38.5

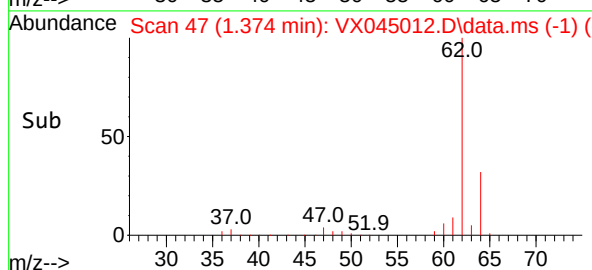
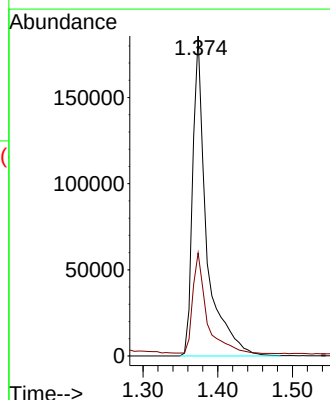
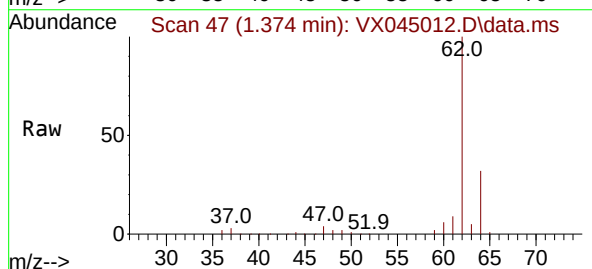
Manual Integrations  
APPROVED

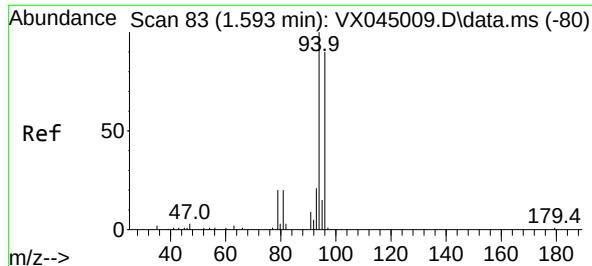
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#4  
Vinyl Chloride  
Concen: 160.323 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 62 Resp: 240390  
Ion Ratio Lower Upper  
62 100  
64 31.4 25.1 37.7





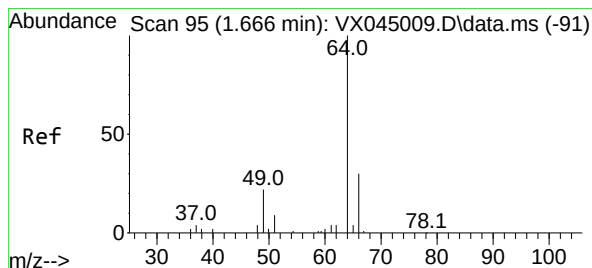
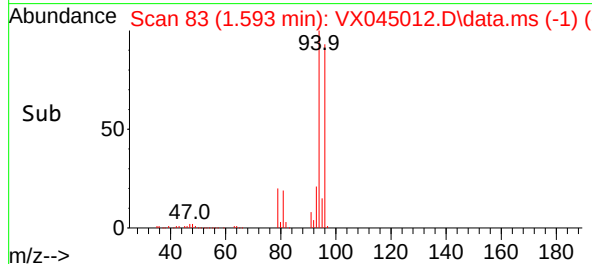
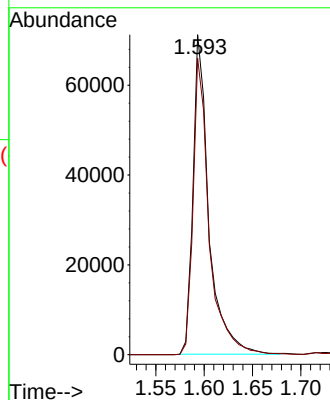
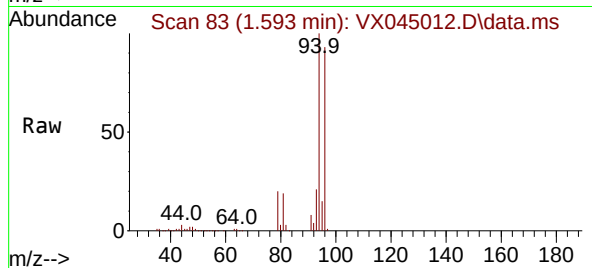
#5  
Bromomethane  
Concen: 155.617 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 94 Resp: 8122  
Ion Ratio Lower Upper  
94 100  
96 92.7 72.2 108.4

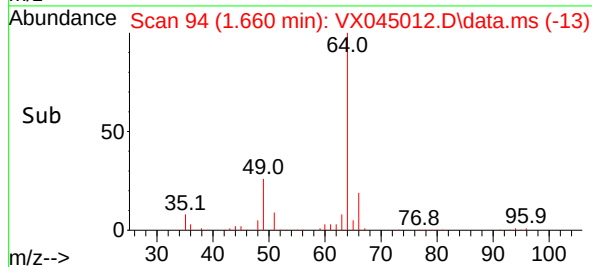
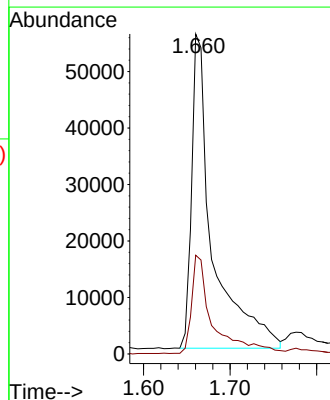
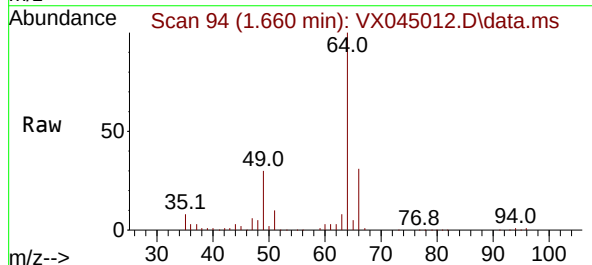
Manual Integrations  
APPROVED

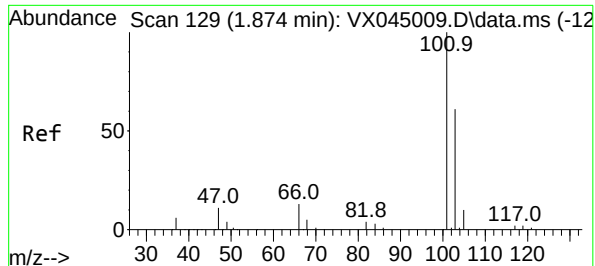
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#6  
Chloroethane  
Concen: 114.868 ug/l  
RT: 1.660 min Scan# 94  
Delta R.T. -0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

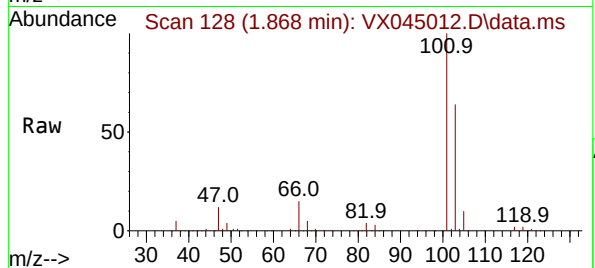
Tgt Ion: 64 Resp: 93284  
Ion Ratio Lower Upper  
64 100  
66 31.3 23.7 35.5





#7  
Trichlorofluoromethane  
Concen: 159.243 ug/l  
RT: 1.868 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

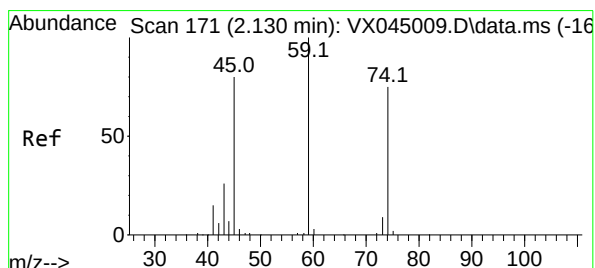
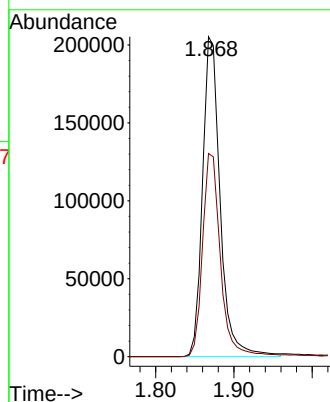
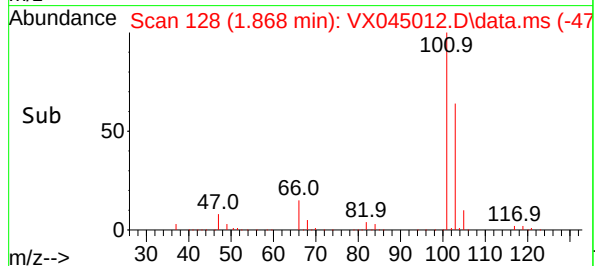
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:101 Resp: 320914  
Ion Ratio Lower Upper  
101 100  
103 63.5 48.8 73.2

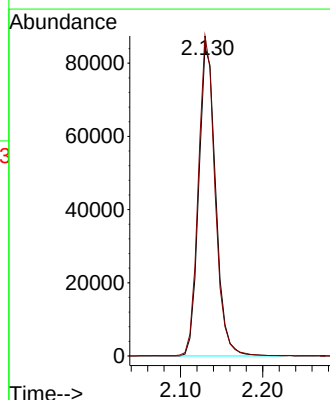
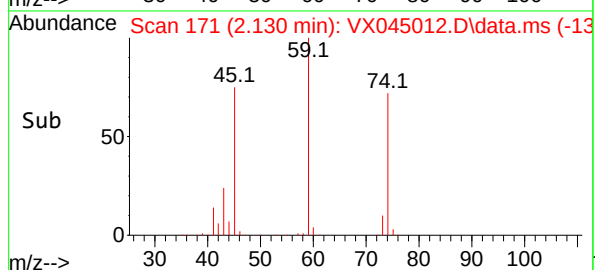
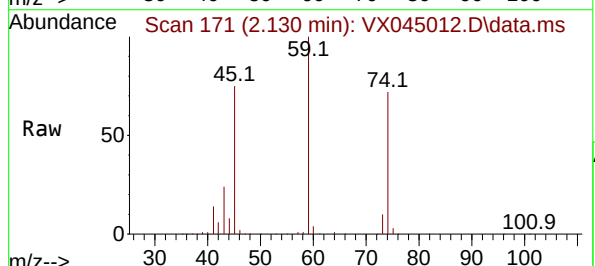
Manual Integrations  
APPROVED

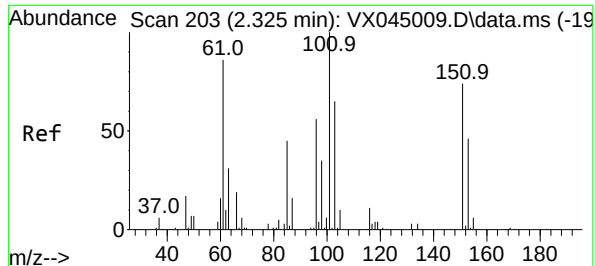
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#8  
Diethyl Ether  
Concen: 159.619 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 74 Resp: 121707  
Ion Ratio Lower Upper  
74 100  
45 101.0 20.8 186.8





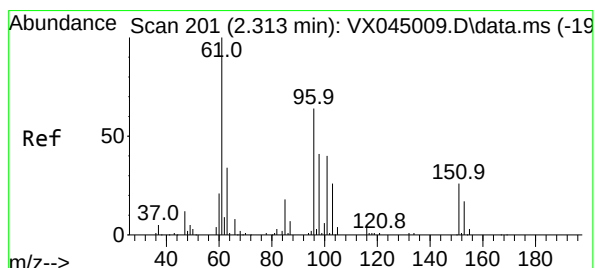
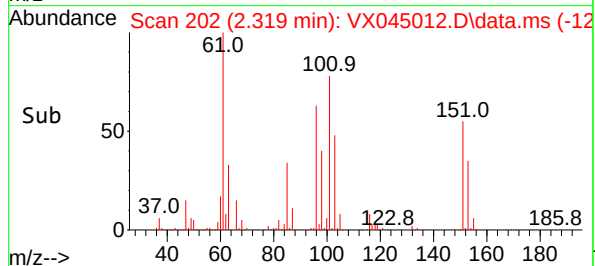
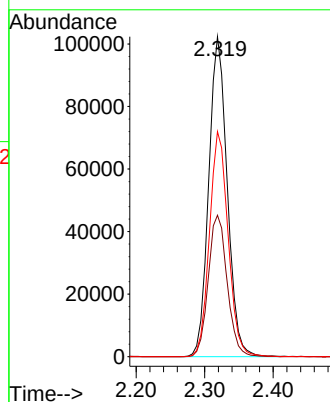
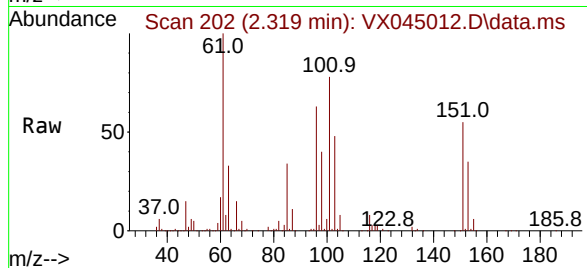
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 160.302 ug/l  
RT: 2.319 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion:101 Resp: 19186  
Ion Ratio Lower Upper  
101 100  
85 45.2 0.0 90.6  
151 71.0 0.0 147.6

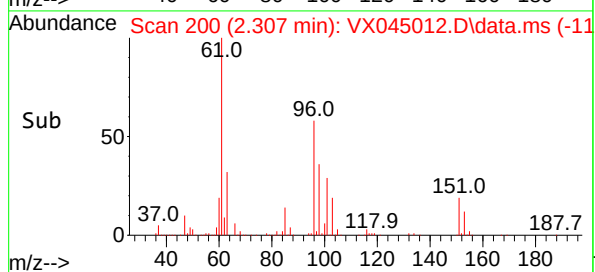
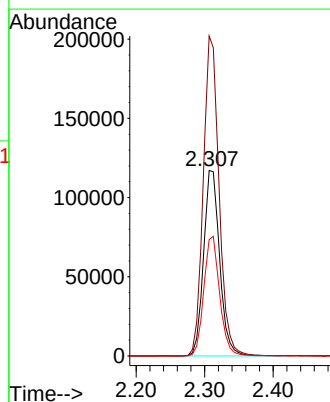
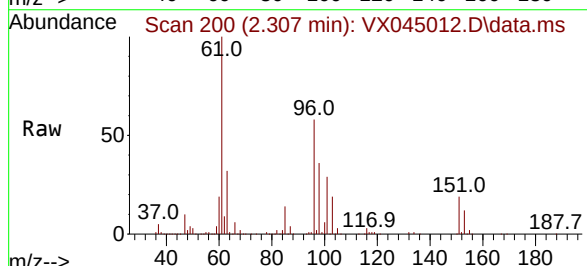
Manual Integrations  
APPROVED

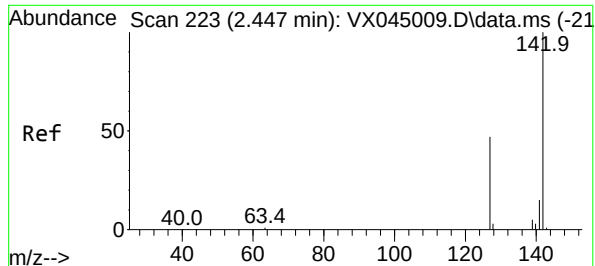
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#10  
1,1-Dichloroethene  
Concen: 163.938 ug/l  
RT: 2.307 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 96 Resp: 191658  
Ion Ratio Lower Upper  
96 100  
61 172.6 124.2 186.2  
98 62.8 51.1 76.7





#11

Methyl Iodide

Concen: 186.677 ug/l

RT: 2.447 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:142 Resp: 247014

Ion Ratio Lower Upper

142 100

127 44.7 23.3 69.9

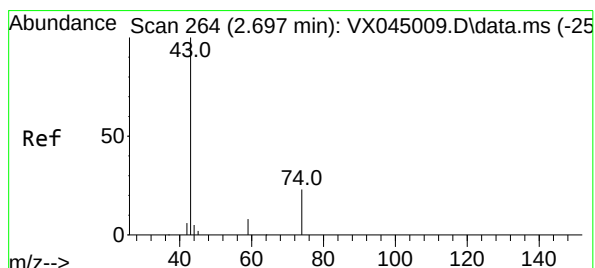
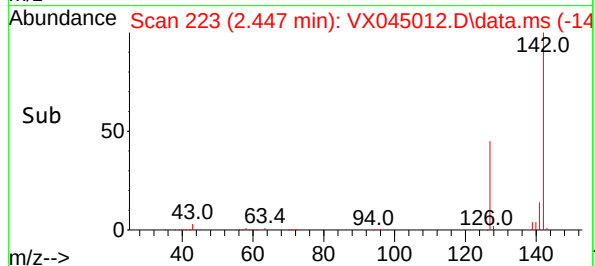
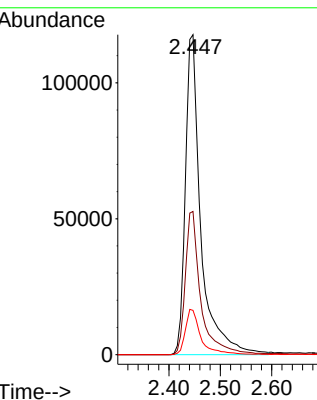
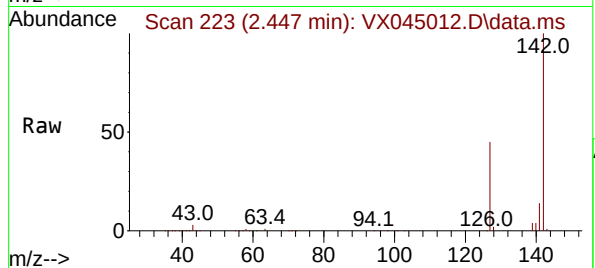
141 13.9 7.5 22.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#12

Methyl Acetate

Concen: 166.780 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX045012.D

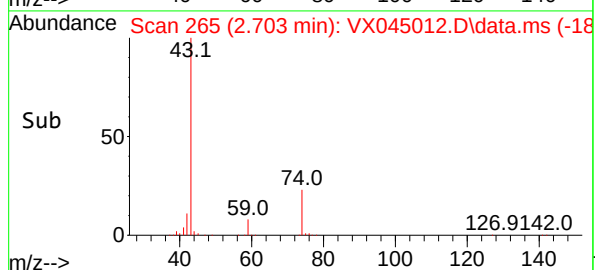
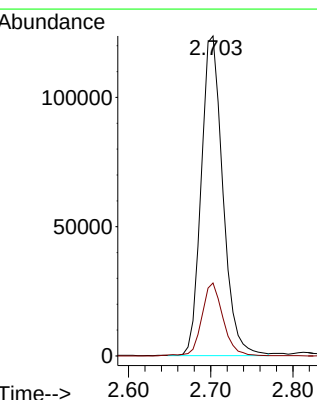
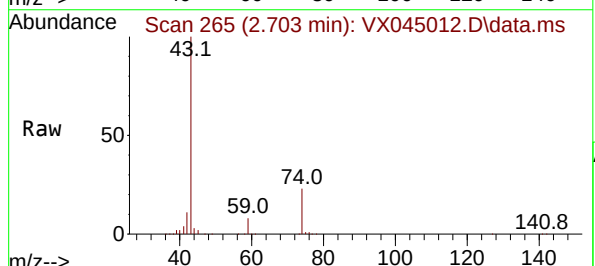
Acq: 21 Feb 2025 11:29

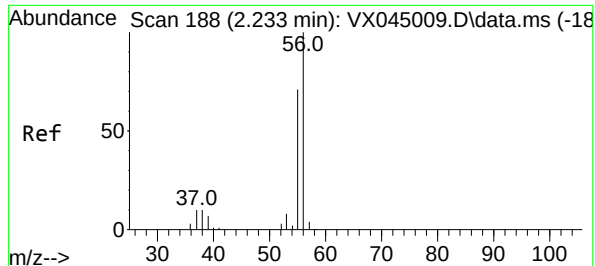
Tgt Ion: 43 Resp: 226419

Ion Ratio Lower Upper

43 100

74 22.7 17.9 26.9





#13

Acrolein

Concen: 859.331 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 23384

Ion Ratio Lower Upper

56 100

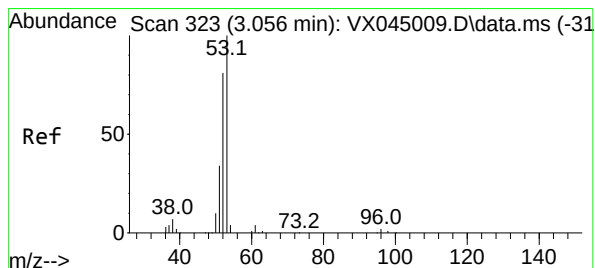
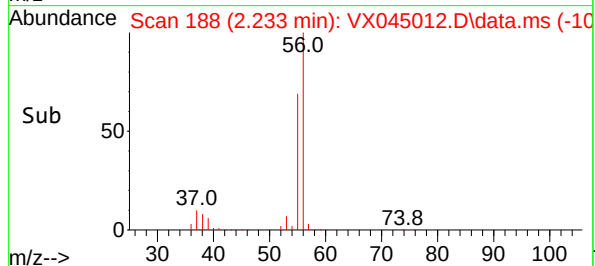
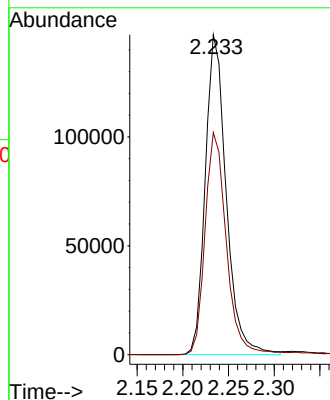
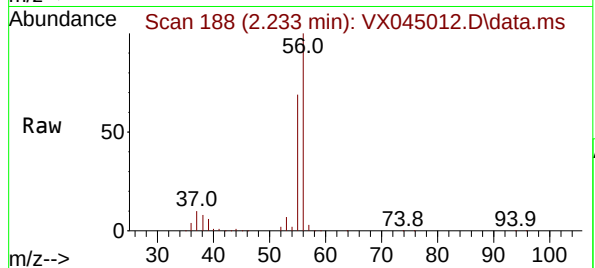
55 70.5 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#14

Acrylonitrile

Concen: 802.955 ug/l

RT: 3.062 min Scan# 324

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

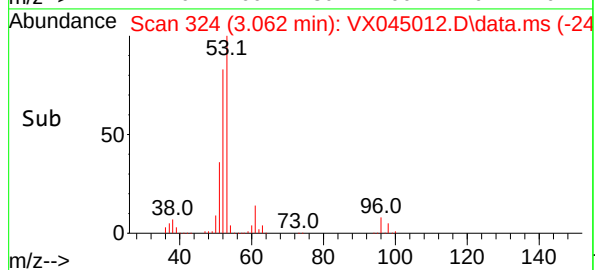
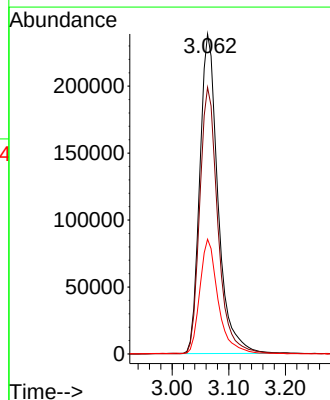
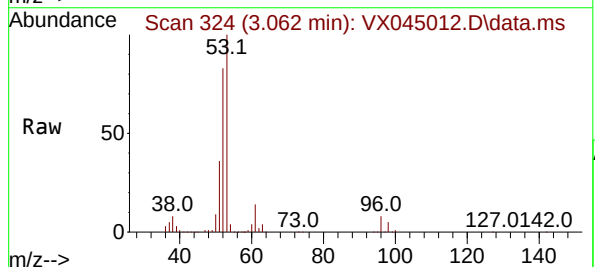
Tgt Ion: 53 Resp: 532462

Ion Ratio Lower Upper

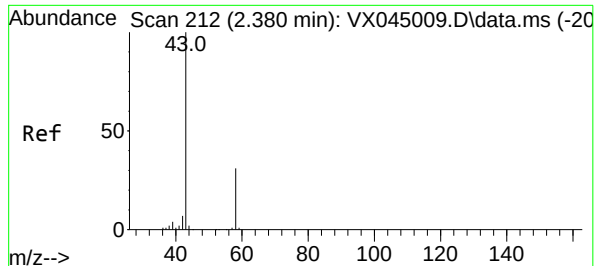
53 100

52 83.0 40.9 122.8

51 36.2 18.0 54.0







#15

Acetone

Concen: 757.609 ug/l

RT: 2.386 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 58 Resp: 13778

Ion Ratio Lower Upper

58 100

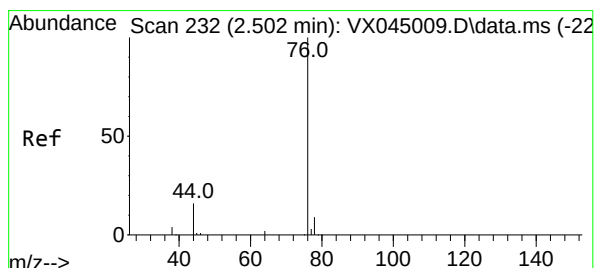
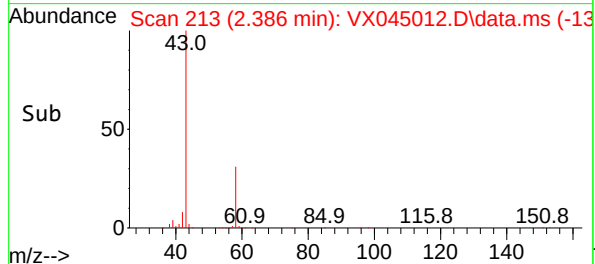
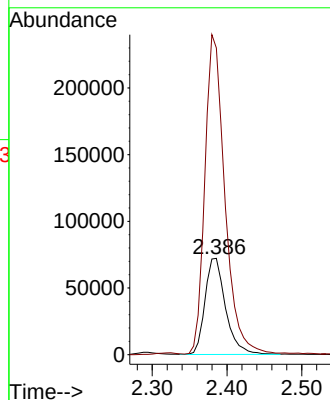
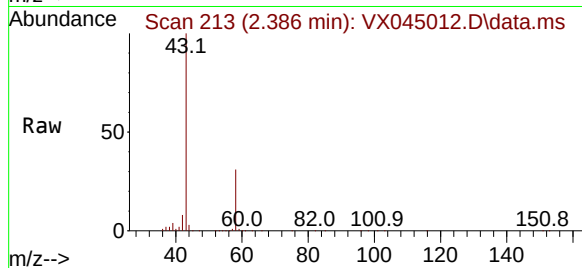
43 318.9 258.6 388.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#16

Carbon Disulfide

Concen: 165.547 ug/l

RT: 2.502 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX045012.D

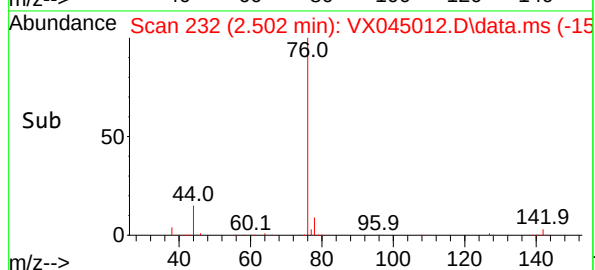
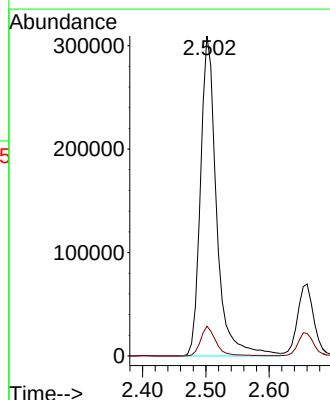
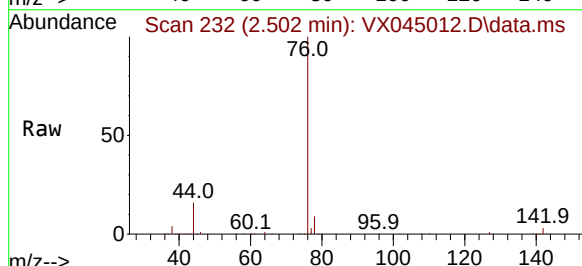
Acq: 21 Feb 2025 11:29

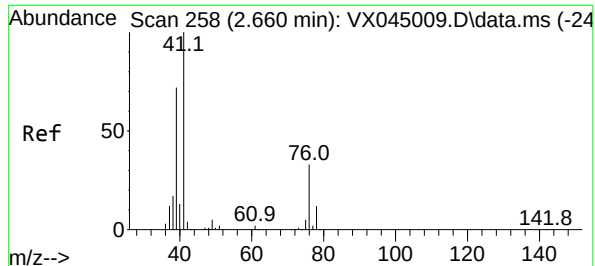
Tgt Ion: 76 Resp: 548971

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





#17

Allyl chloride

Concen: 165.958 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 362889

Ion Ratio Lower Upper

41 100

39 73.0 36.2 108.6

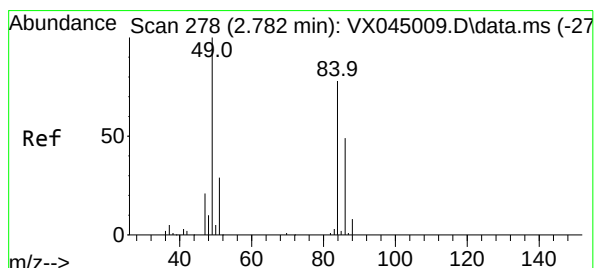
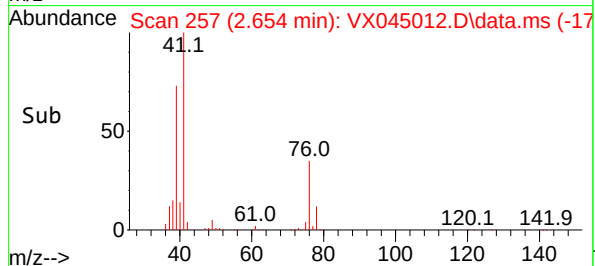
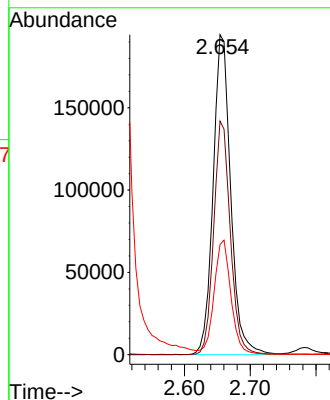
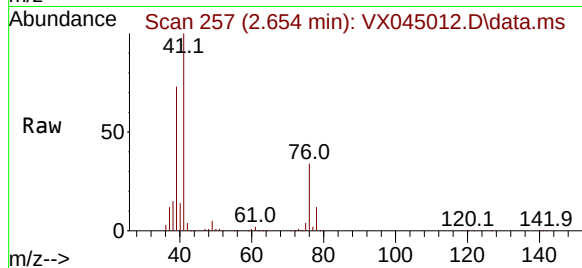
76 34.3 17.2 51.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#18

Methylene Chloride

Concen: 160.628 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Tgt Ion: 84 Resp: 211221

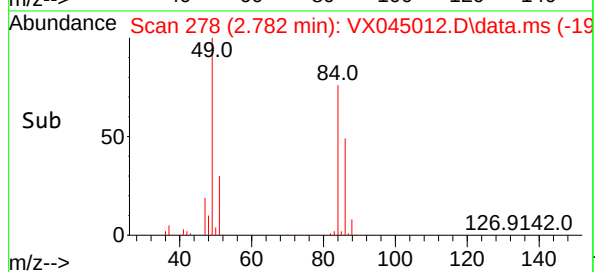
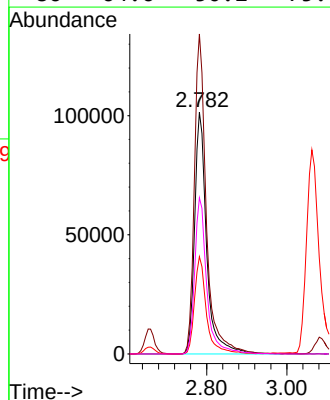
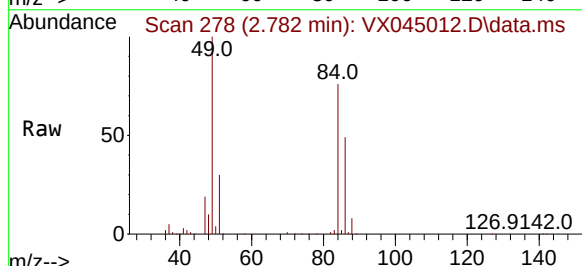
Ion Ratio Lower Upper

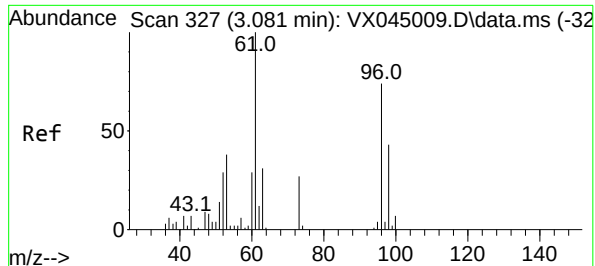
84 100

49 132.4 102.8 154.2

51 40.3 30.1 45.1

86 64.6 50.2 75.4





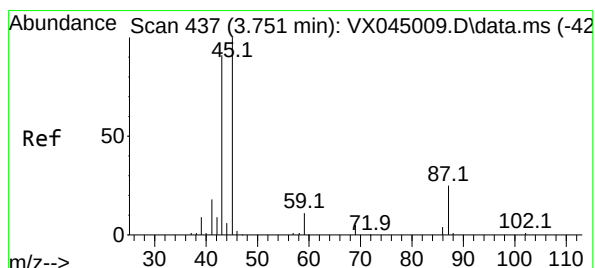
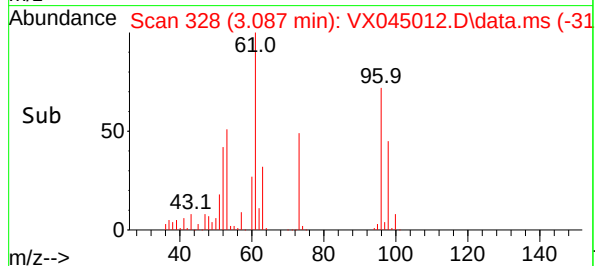
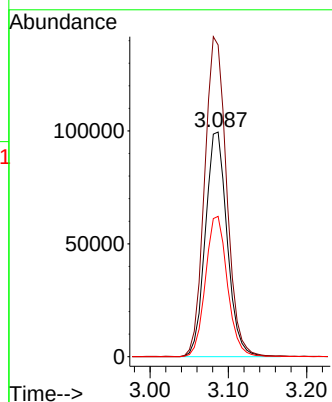
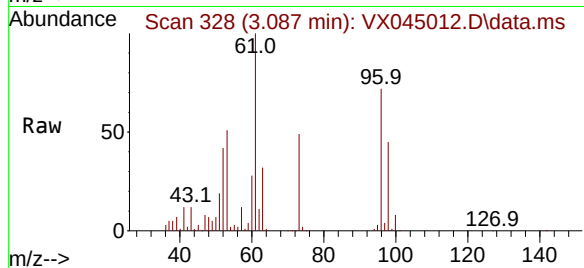
#19  
trans-1,2-Dichloroethene  
Concen: 162.701 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 96 Resp: 19244  
Ion Ratio Lower Upper  
96 100  
61 138.6 108.6 163.0  
98 62.5 46.5 69.7

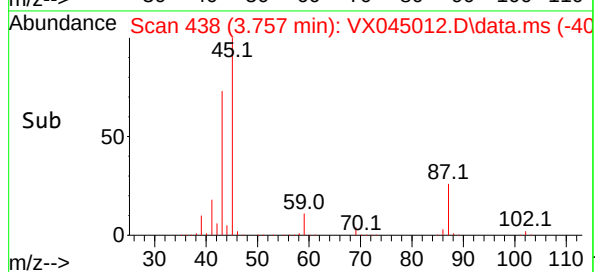
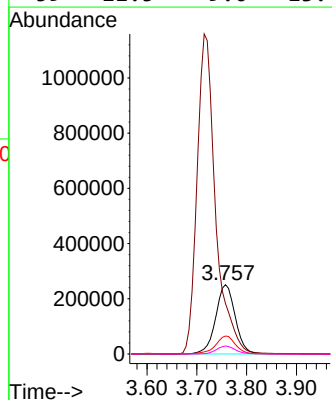
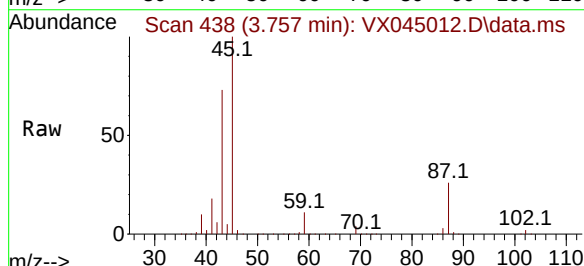
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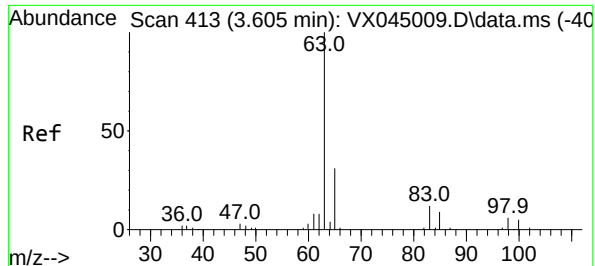
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#20  
Diisopropyl ether  
Concen: 162.921 ug/l  
RT: 3.757 min Scan# 438  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 45 Resp: 684590  
Ion Ratio Lower Upper  
45 100  
43 72.4 74.4 111.6#  
87 26.0 19.8 29.8  
59 11.5 9.0 13.4





#21

1,1-Dichloroethane

Concen: 162.287 ug/l

RT: 3.599 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 379249

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

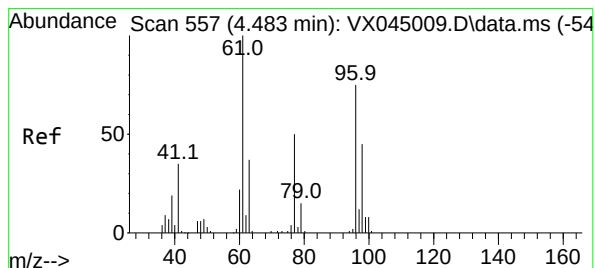
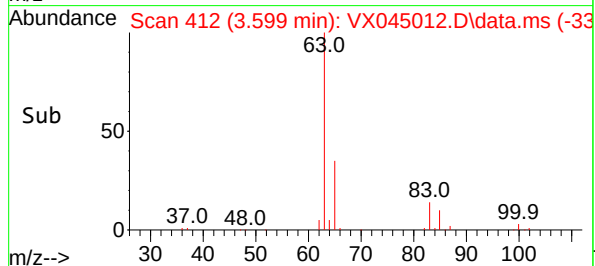
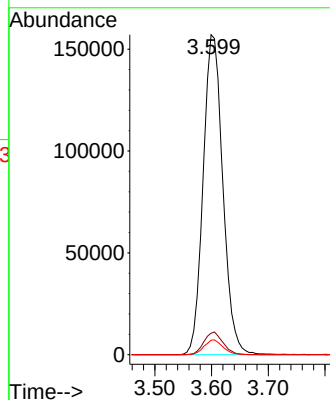
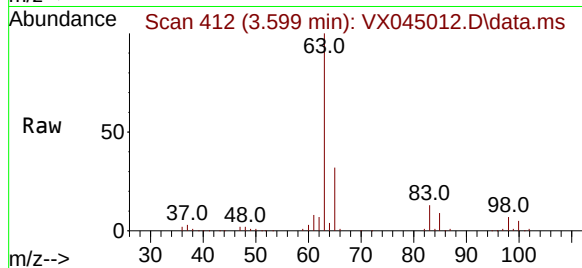
100 4.6 2.4 7.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#22

cis-1,2-Dichloroethene

Concen: 162.719 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

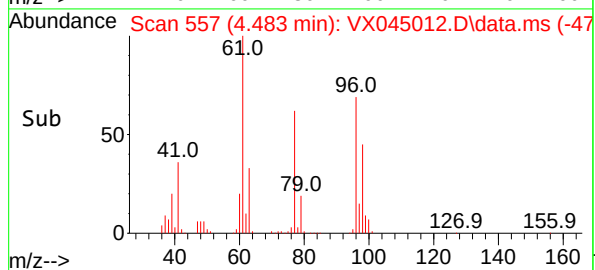
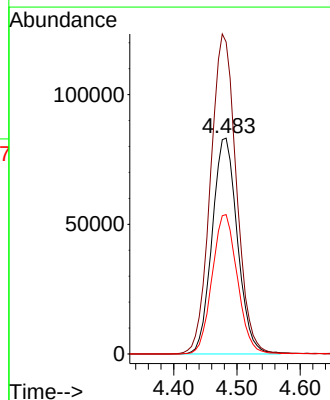
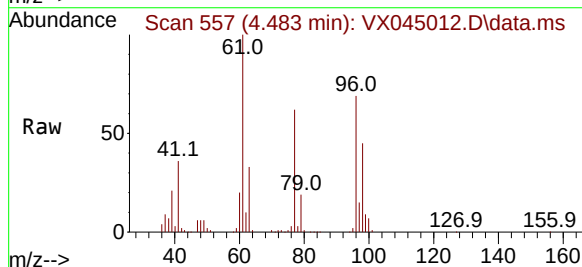
Tgt Ion: 96 Resp: 230636

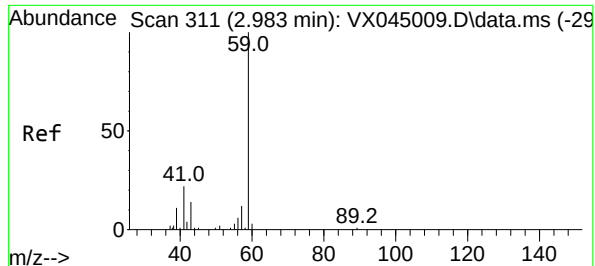
Ion Ratio Lower Upper

96 100

61 152.0 118.9 178.3

98 64.6 50.7 76.1





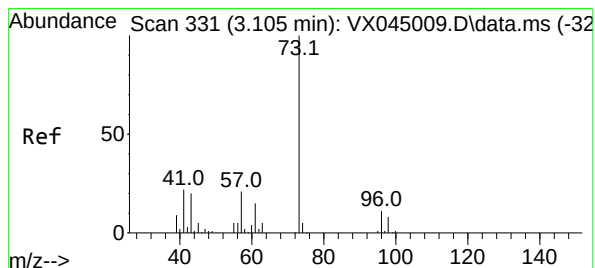
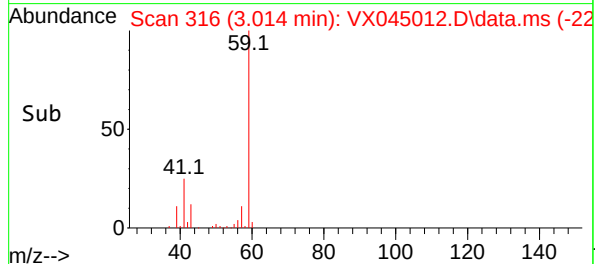
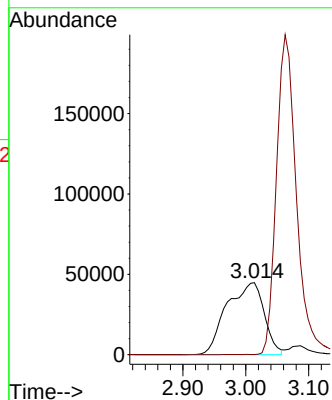
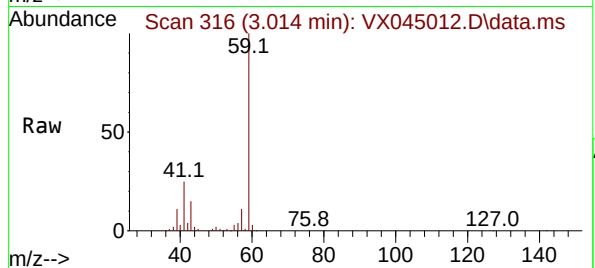
#23  
tert-Butyl Alcohol  
Concen: 799.131 ug/l m  
RT: 3.014 min Scan# 311  
Delta R.T. 0.030 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 59 Resp: 185225  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

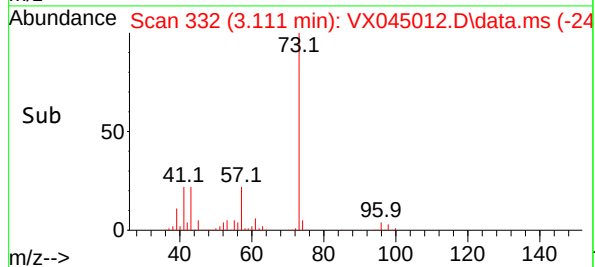
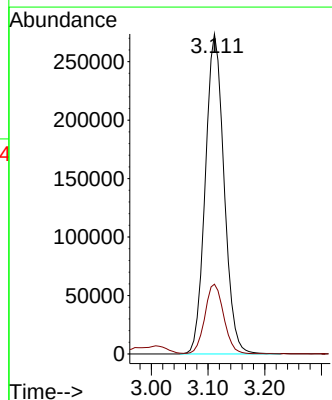
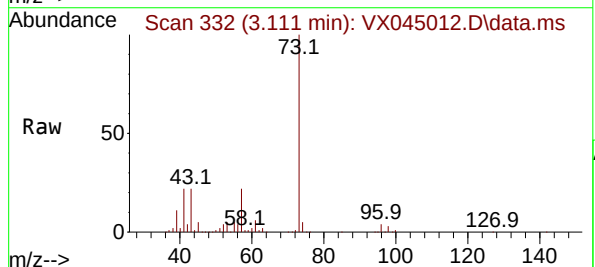
Manual Integrations  
APPROVED

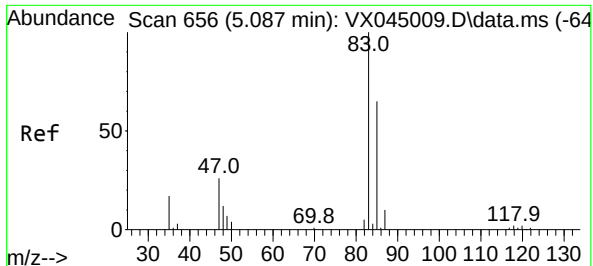
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#24  
Methyl tert-Butyl Ether  
Concen: 164.746 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 73 Resp: 628626  
Ion Ratio Lower Upper  
73 100  
43 21.7 17.4 26.0





#25

Chloroform

Concen: 162.652 ug/l

RT: 5.087 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 36714

Ion Ratio Lower Upper

83 100

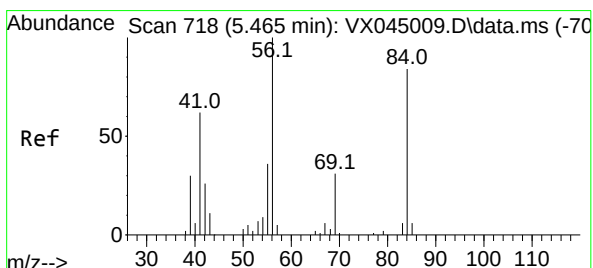
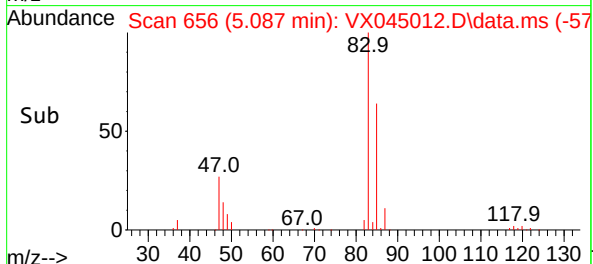
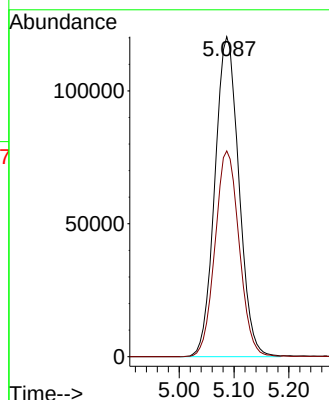
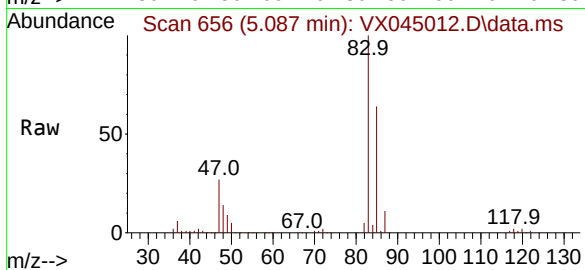
85 64.3 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#26

Cyclohexane

Concen: 162.829 ug/l

RT: 5.464 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

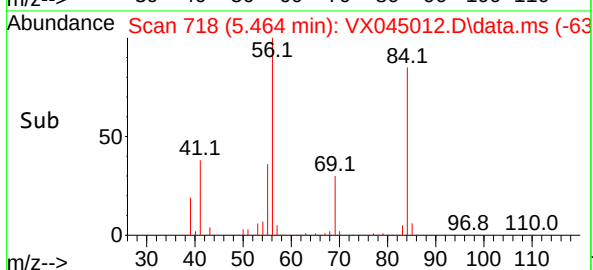
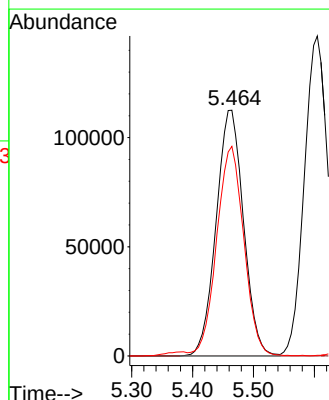
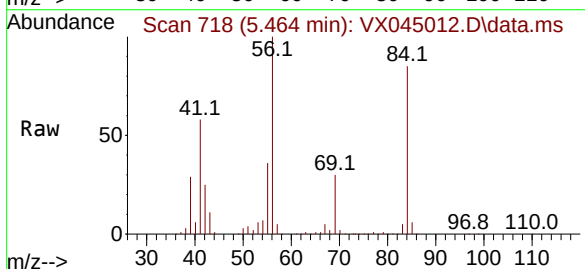
Tgt Ion: 56 Resp: 351233

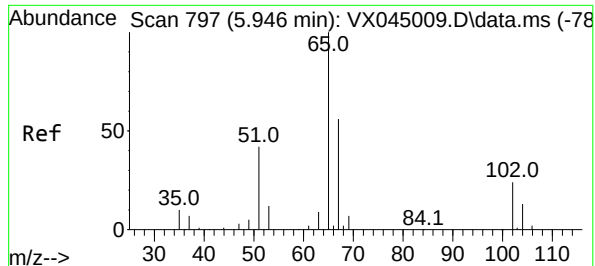
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 84.8 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 31.344 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 4685

Ion Ratio Lower Upper

65 100

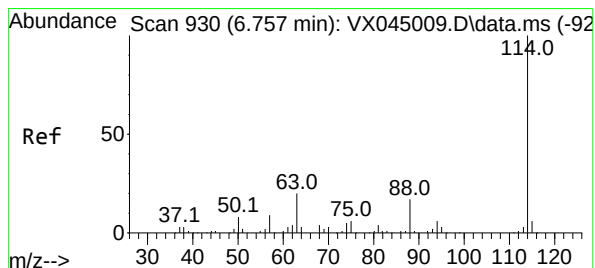
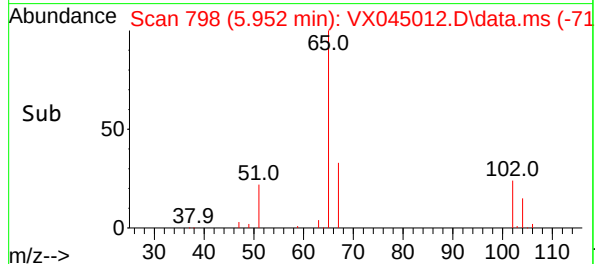
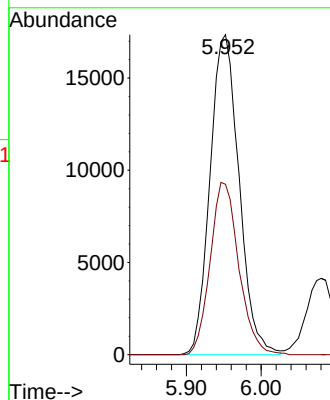
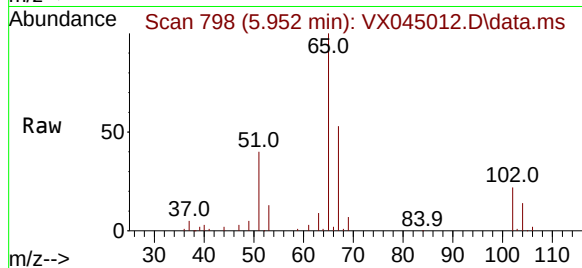
67 53.1 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

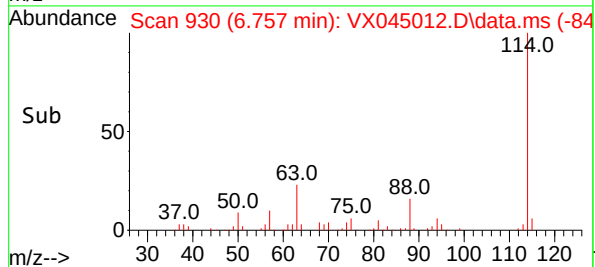
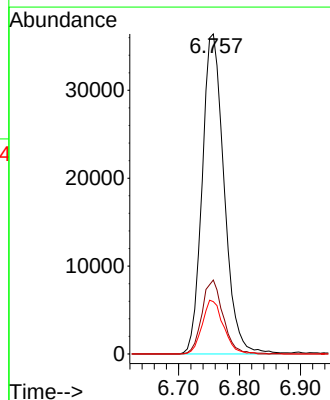
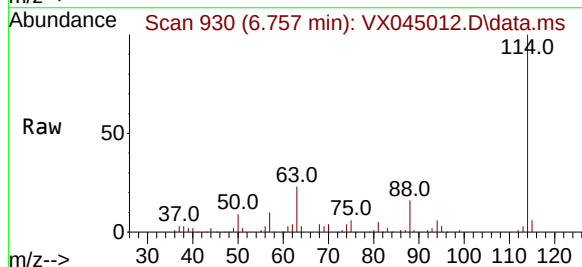
Tgt Ion:114 Resp: 91158

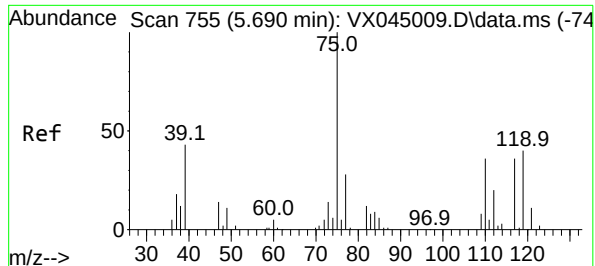
Ion Ratio Lower Upper

114 100

63 22.0 16.8 25.2

88 16.1 12.7 19.1





#29

1,1-Dichloropropene

Concen: 155.458 ug/l

RT: 5.684 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 260684

Ion Ratio Lower Upper

75 100

110 33.9 0.0 69.2

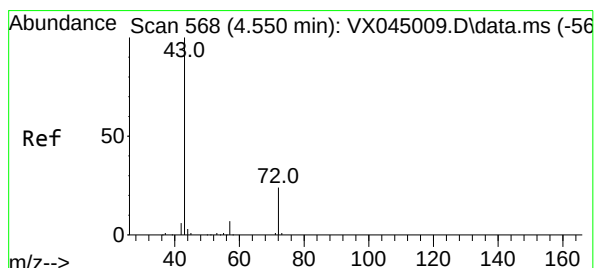
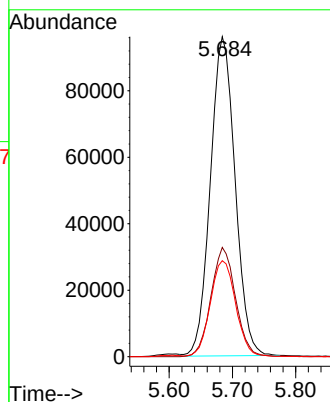
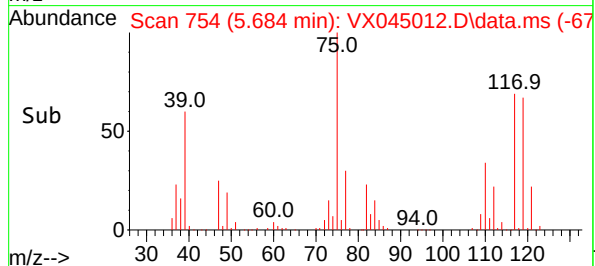
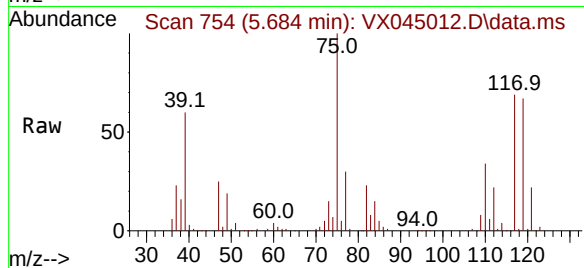
77 30.9 0.0 61.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#30

2-Butanone

Concen: 759.373 ug/l

RT: 4.550 min Scan# 568

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

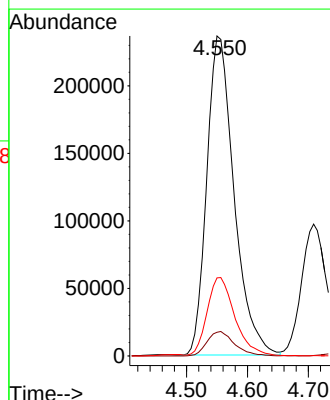
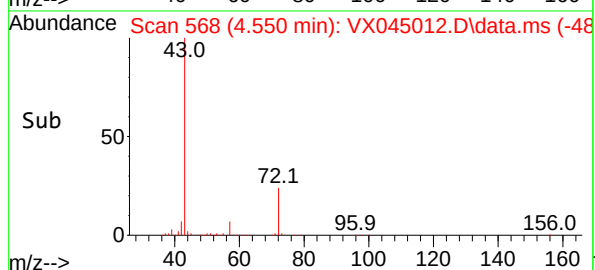
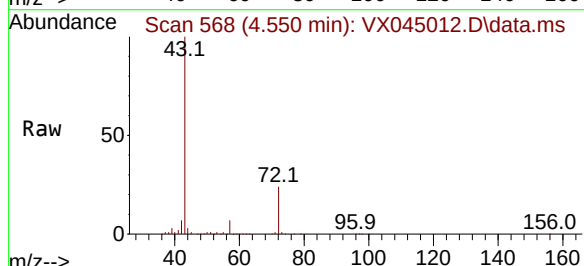
Tgt Ion: 43 Resp: 735492

Ion Ratio Lower Upper

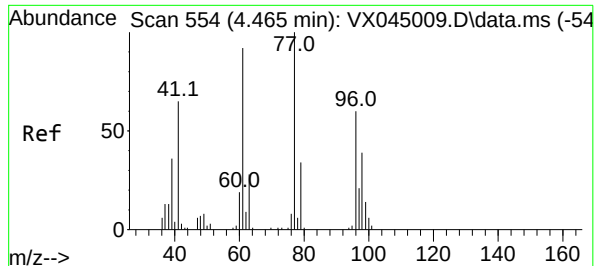
43 100

57 7.7 6.2 9.2

72 25.0 20.2 30.2







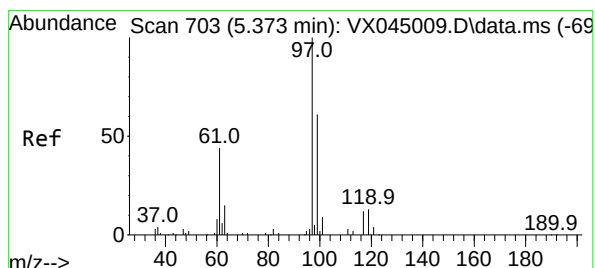
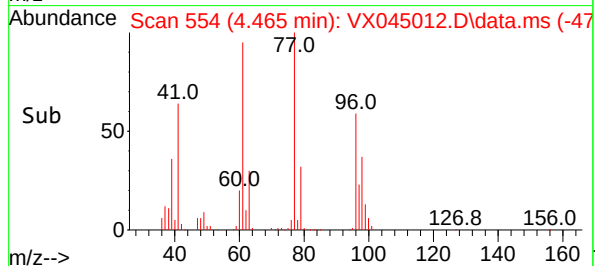
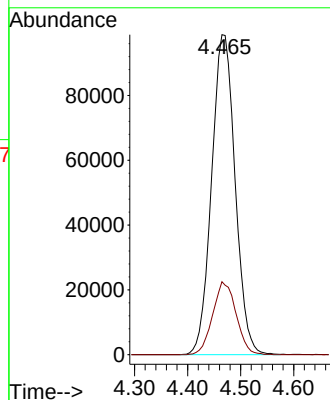
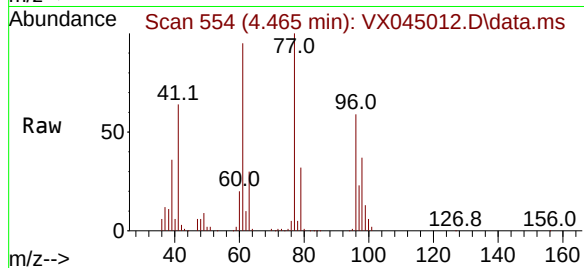
#31  
2,2-Dichloropropane  
Concen: 160.447 ug/l  
RT: 4.465 min Scan# 554  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 77 Resp: 304225  
Ion Ratio Lower Upper  
77 100  
97 22.7 18.0 27.0

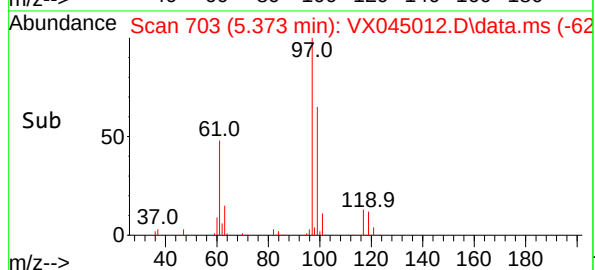
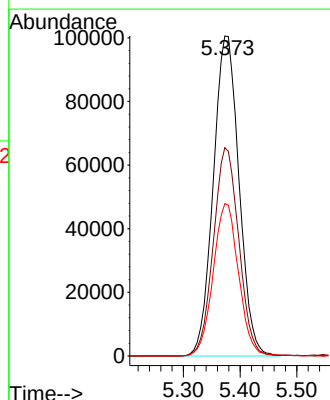
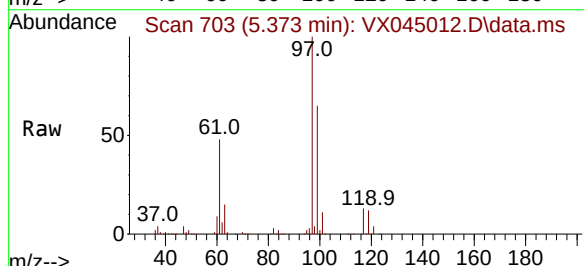
Manual Integrations  
APPROVED

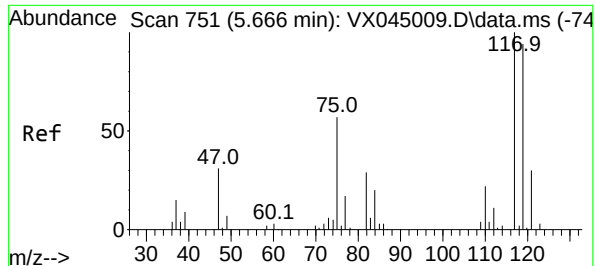
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#32  
1,1,1-Trichloroethane  
Concen: 155.824 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 97 Resp: 316595  
Ion Ratio Lower Upper  
97 100  
99 64.3 52.2 78.2  
61 47.2 38.5 57.7





#33

Carbon Tetrachloride

Concen: 154.492 ug/l

RT: 5.672 min Scan# 751

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:117 Resp: 26490

Ion Ratio Lower Upper

117 100

119 95.7 75.1 112.7

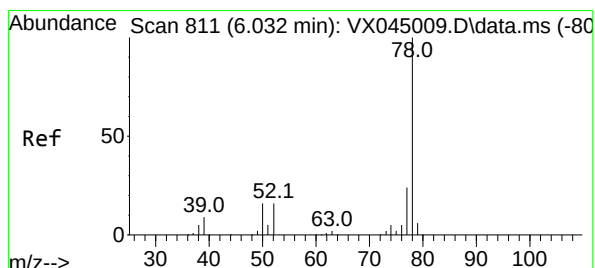
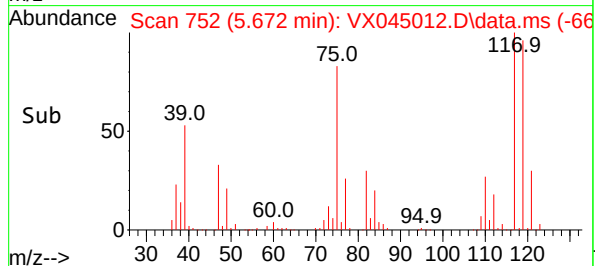
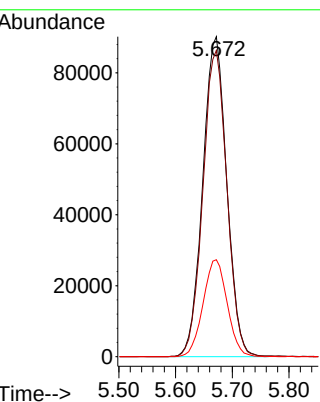
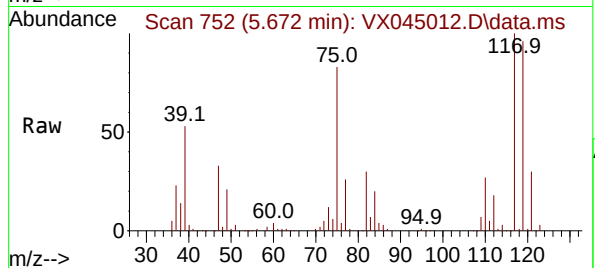
121 30.3 23.9 35.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#34

Benzene

Concen: 152.163 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

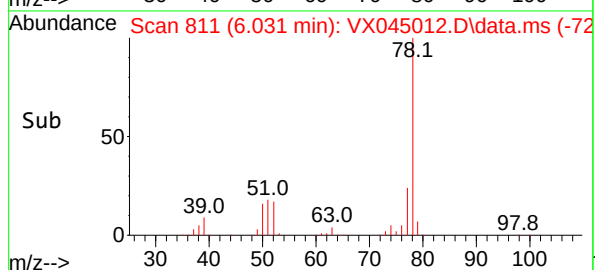
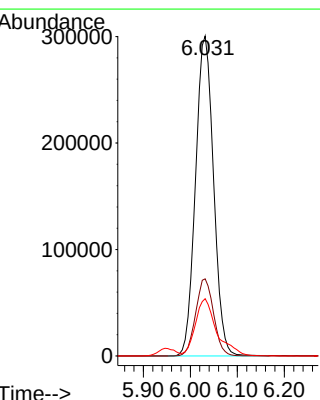
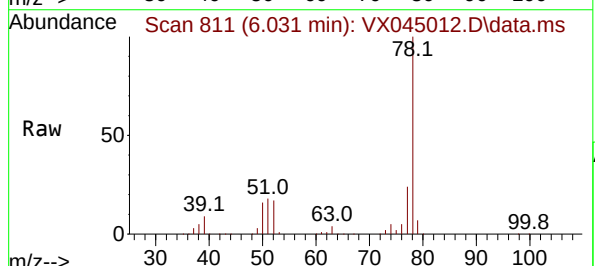
Tgt Ion: 78 Resp: 800159

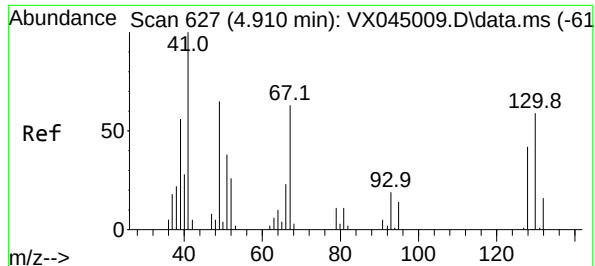
Ion Ratio Lower Upper

78 100

77 24.1 19.6 29.4

51 17.8 13.8 20.6





#35

Methacrylonitrile

Concen: 157.037 ug/l

RT: 4.916 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 16276

Ion Ratio Lower Upper

41 100

39 53.3 27.8 83.4

67 66.4 31.5 94.5

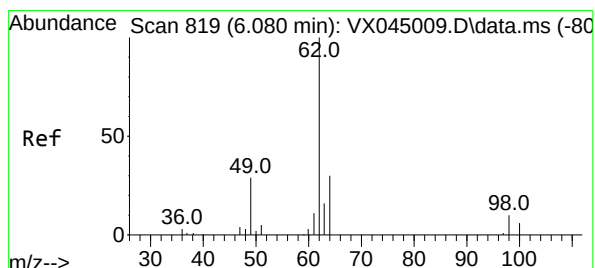
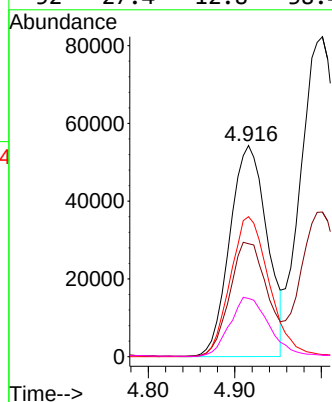
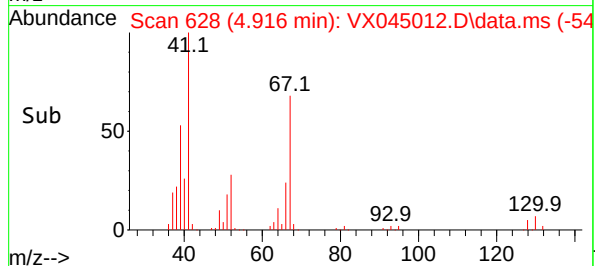
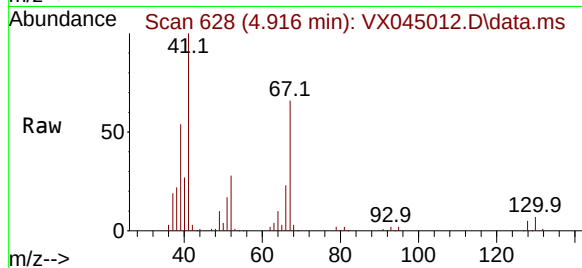
52 27.4 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#36

1,2-Dichloroethane

Concen: 153.695 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.000 min

Lab File: VX045012.D

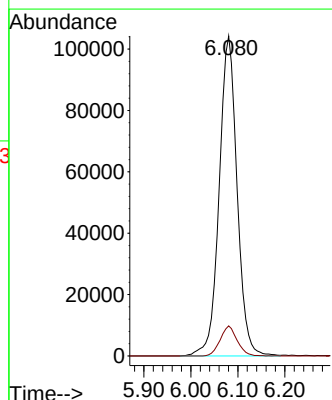
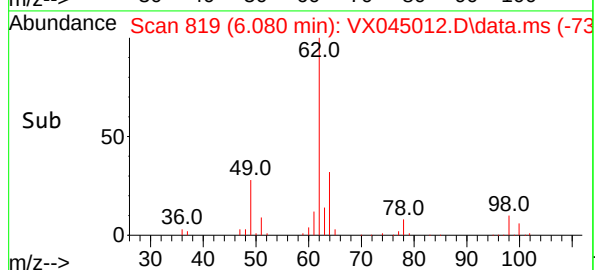
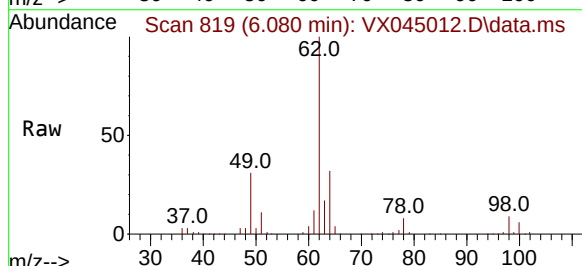
Acq: 21 Feb 2025 11:29

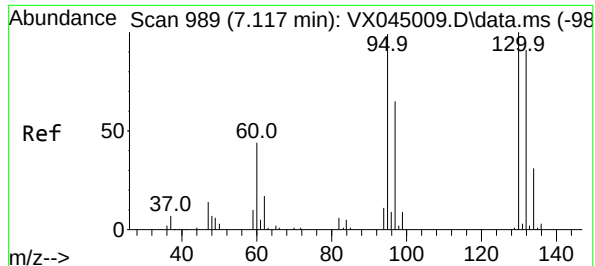
Tgt Ion: 62 Resp: 276707

Ion Ratio Lower Upper

62 100

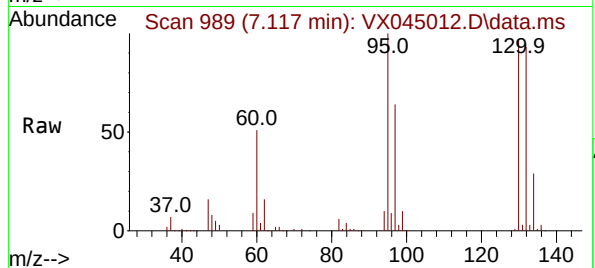
98 8.9 7.9 11.9





#37  
Trichloroethene  
Concen: 153.878 ug/l  
RT: 7.117 min Scan# 989  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

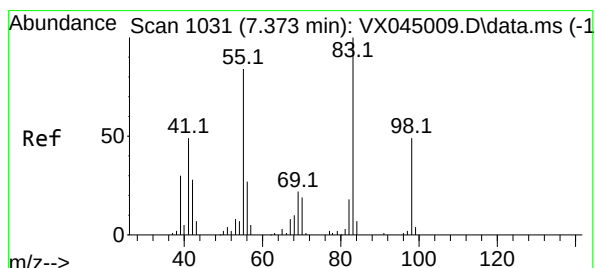
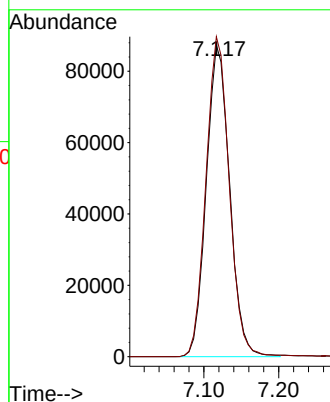
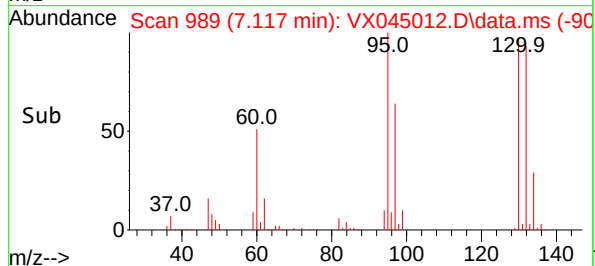
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:130 Resp: 189307  
Ion Ratio Lower Upper  
130 100  
95 102.6 79.0 118.4

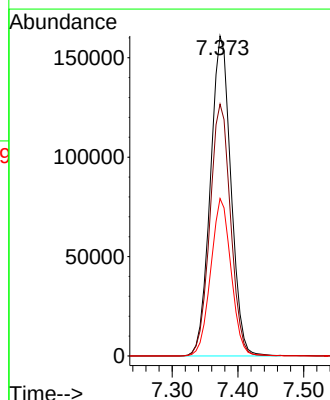
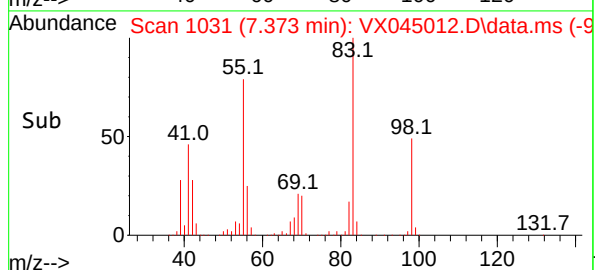
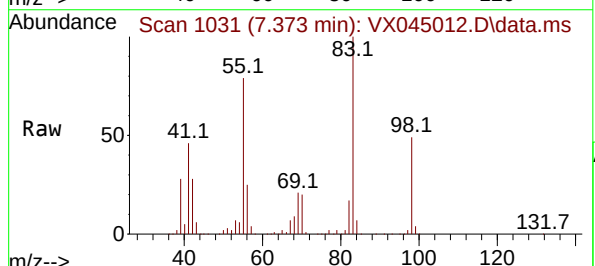
Manual Integrations  
APPROVED

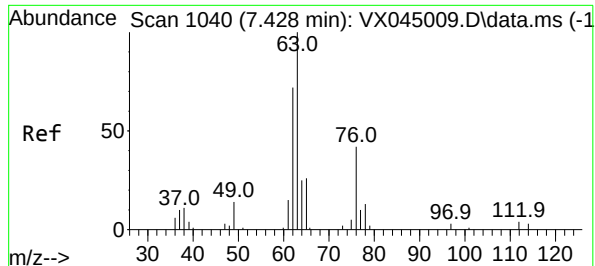
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#38  
Methylcyclohexane  
Concen: 155.851 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 83 Resp: 350907  
Ion Ratio Lower Upper  
83 100  
55 79.0 40.6 122.0  
98 48.7 24.9 74.6





#39

1,2-Dichloropropane

Concen: 154.621 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 202140

Ion Ratio Lower Upper

63 100

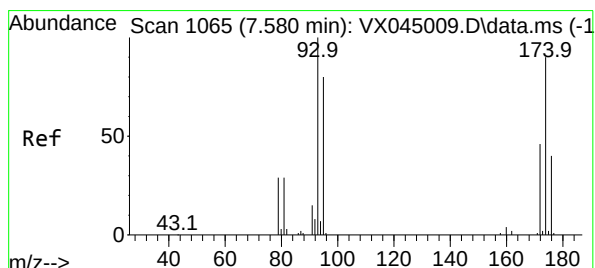
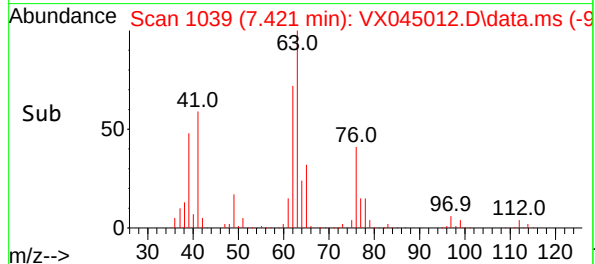
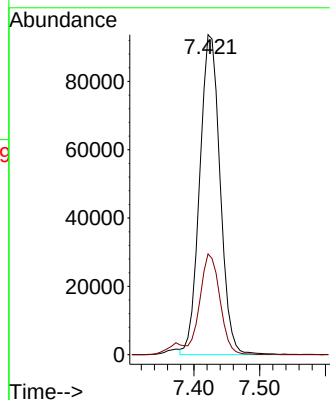
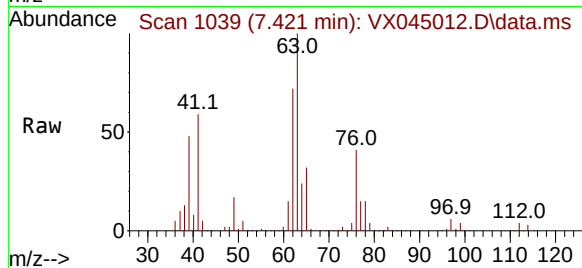
65 31.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#40

Dibromomethane

Concen: 153.109 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

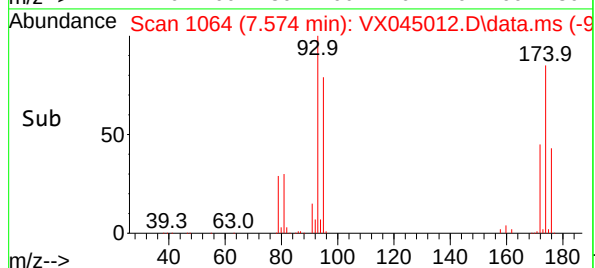
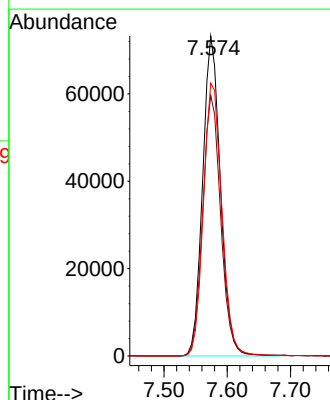
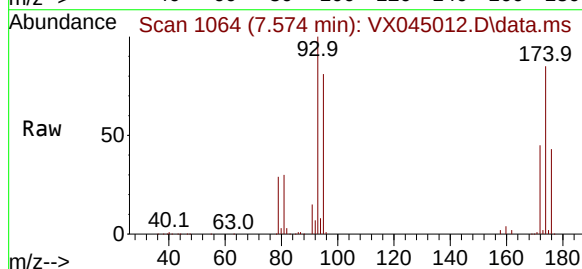
Tgt Ion: 93 Resp: 143641

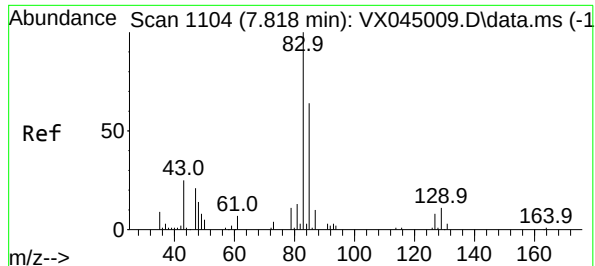
Ion Ratio Lower Upper

93 100

95 82.5 0.0 162.6

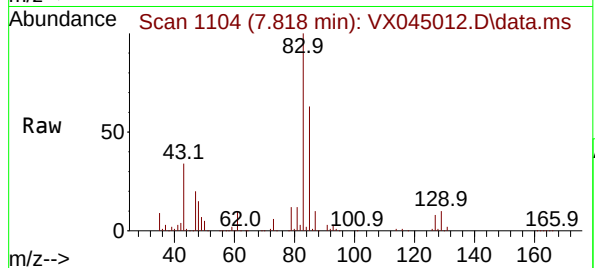
174 88.4 0.0 178.8





#41  
Bromodichloromethane  
Concen: 156.122 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

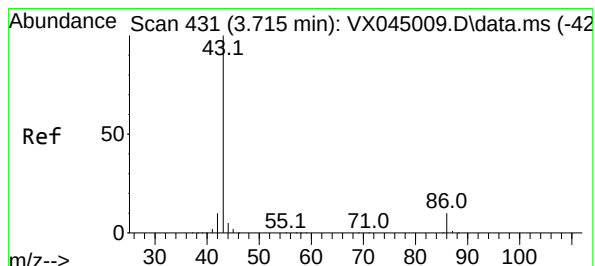
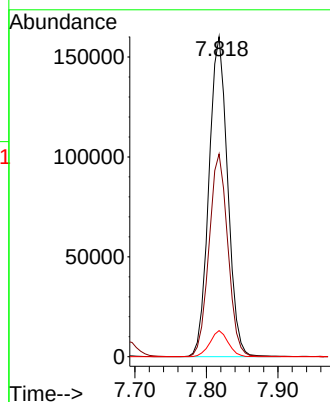
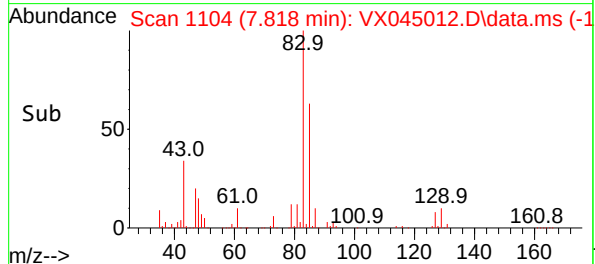
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion: 83 Resp: 291108  
Ion Ratio Lower Upper  
83 100  
85 63.3 51.0 76.6  
127 8.2 6.1 9.1

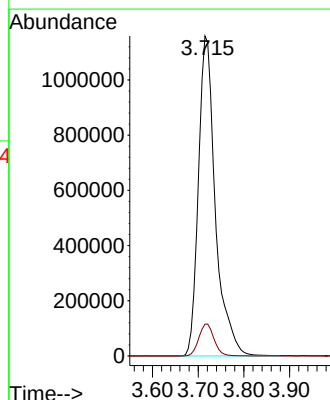
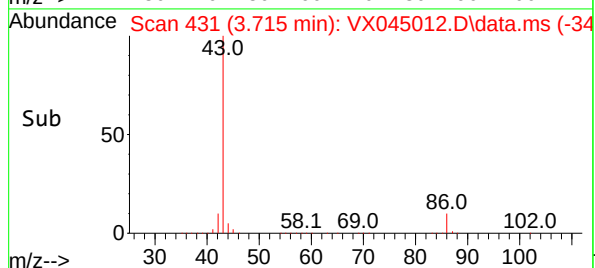
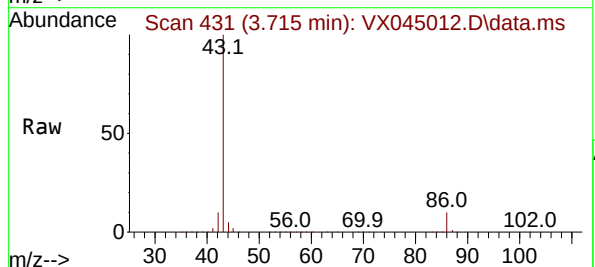
Manual Integrations  
APPROVED

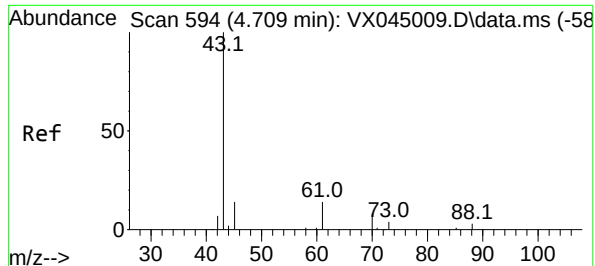
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#42  
Vinyl Acetate  
Concen: 795.020 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 2988086  
Ion Ratio Lower Upper  
43 100  
86 9.0 7.0 10.4





#43

Ethyl Acetate

Concen: 161.195 ug/l

RT: 4.709 min Scan# 594

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 29278

Ion Ratio Lower Upper

43 100

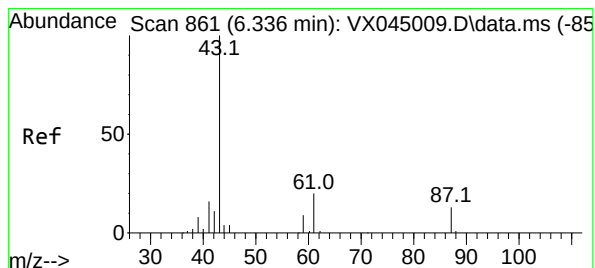
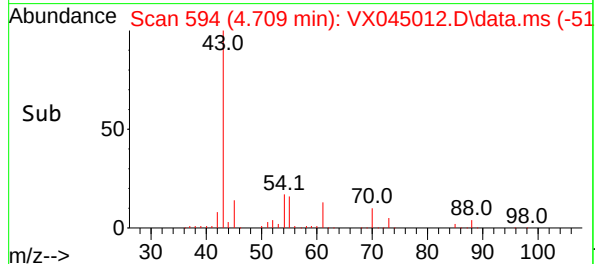
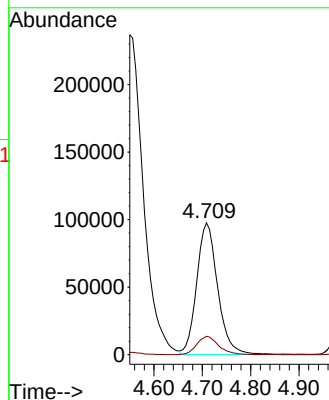
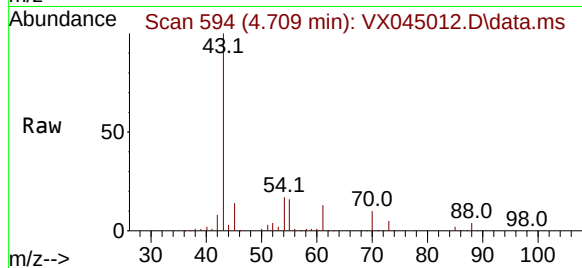
45 14.6 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#44

Isopropyl Acetate

Concen: 163.920 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX045012.D

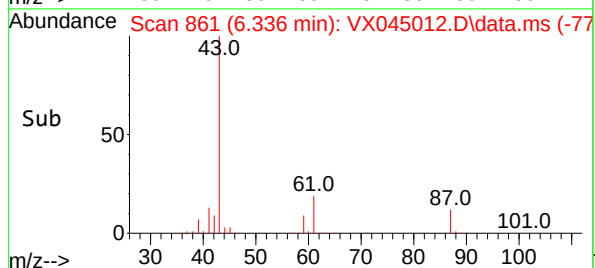
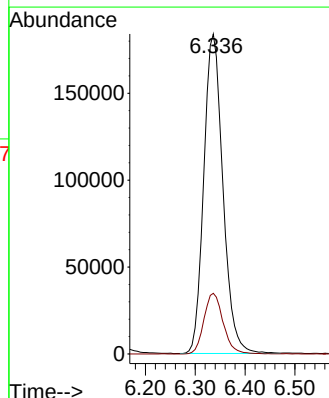
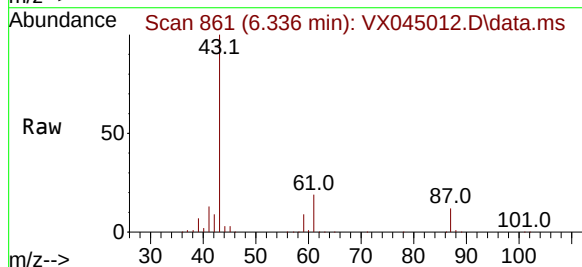
Acq: 21 Feb 2025 11:29

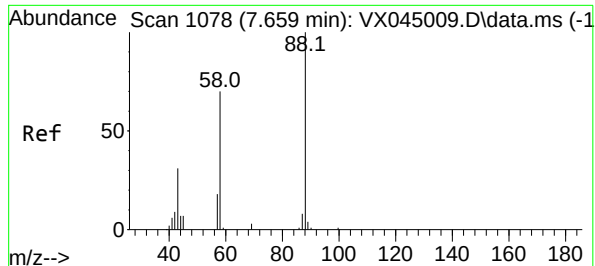
Tgt Ion: 43 Resp: 490033

Ion Ratio Lower Upper

43 100

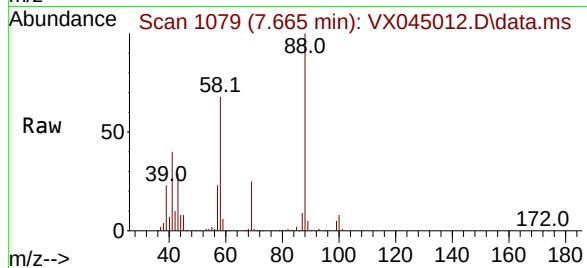
61 19.1 15.5 23.3





#45  
1,4-Dioxane  
Concen: 2937.775 ug/l  
RT: 7.665 min Scan# 1079  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

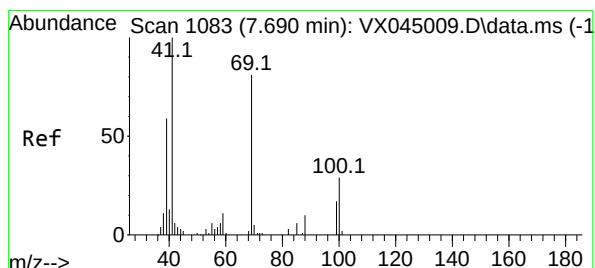
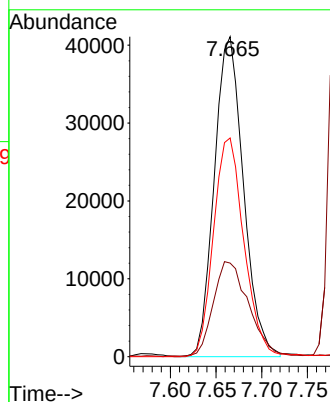
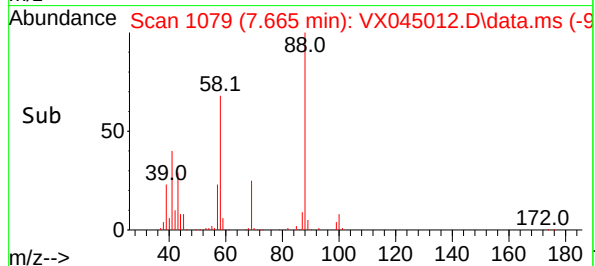
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion: 88 Resp: 91297  
Ion Ratio Lower Upper  
88 100  
43 35.3 29.6 44.4  
58 71.1 56.2 84.4

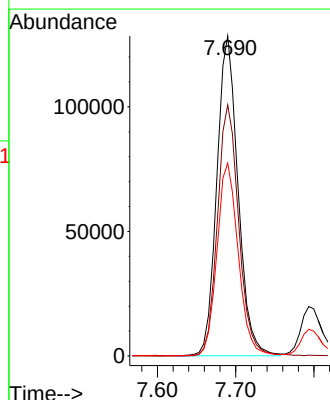
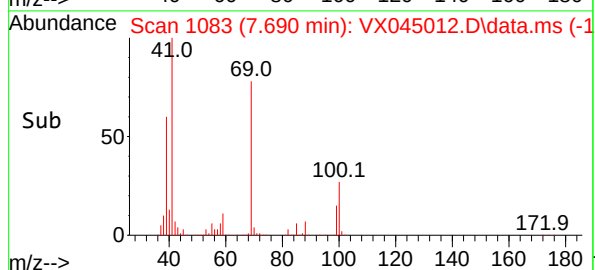
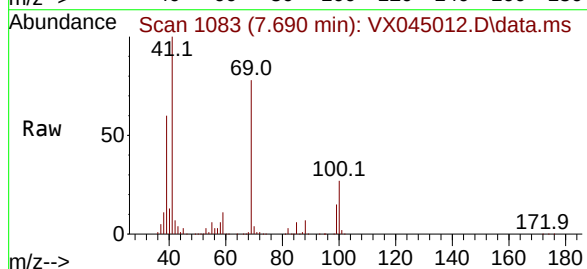
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

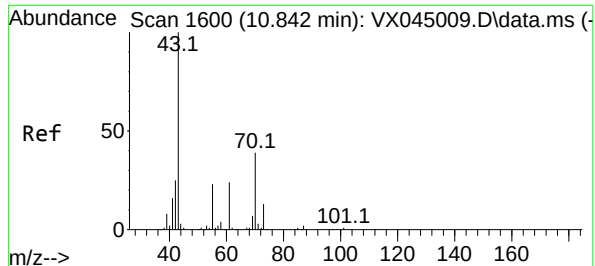


#46  
Methyl methacrylate  
Concen: 164.798 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 41 Resp: 241575  
Ion Ratio Lower Upper  
41 100  
69 78.5 40.7 122.1  
39 60.2 29.5 88.5







#47

n-amy1 Acetate

Concen: 168.943 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 43826

Ion Ratio Lower Upper

43 100

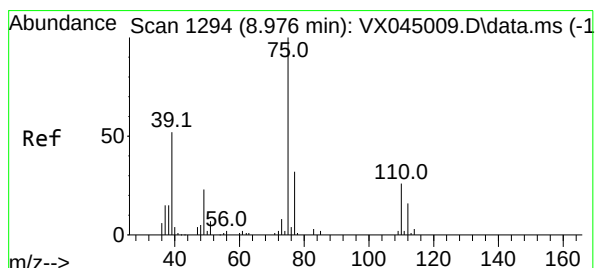
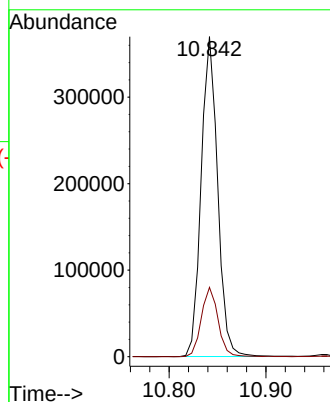
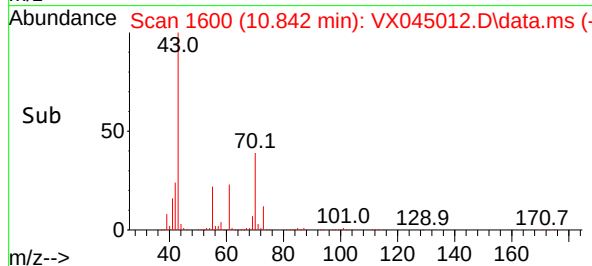
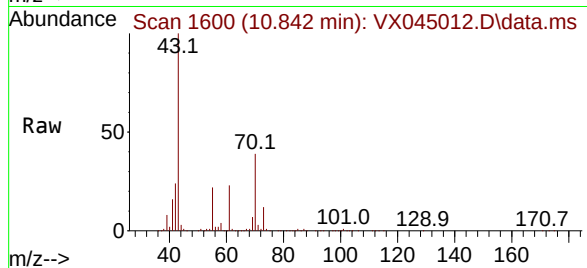
55 22.0 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#48

t-1,3-Dichloropropene

Concen: 169.001 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045012.D

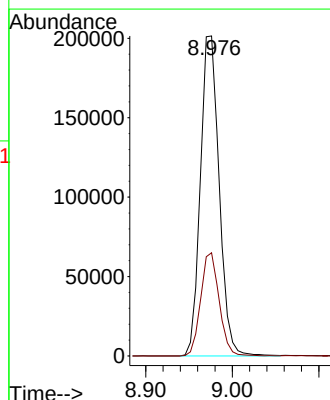
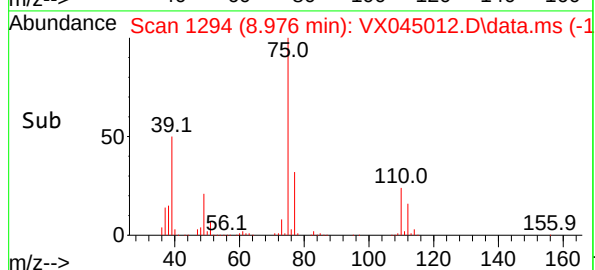
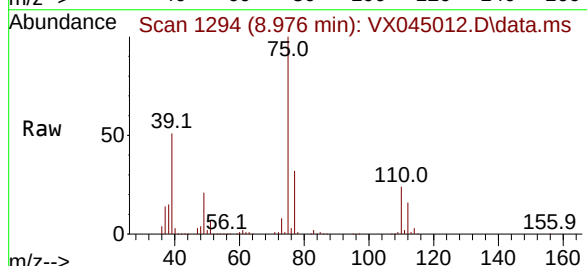
Acq: 21 Feb 2025 11:29

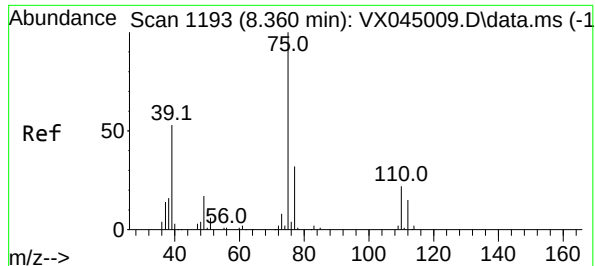
Tgt Ion: 75 Resp: 303740

Ion Ratio Lower Upper

75 100

77 32.3 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 162.750 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 331118

Ion Ratio Lower Upper

75 100

77 31.3 25.9 38.9

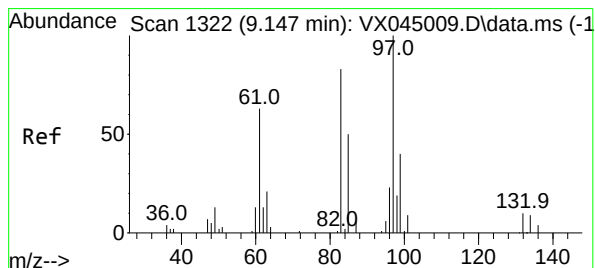
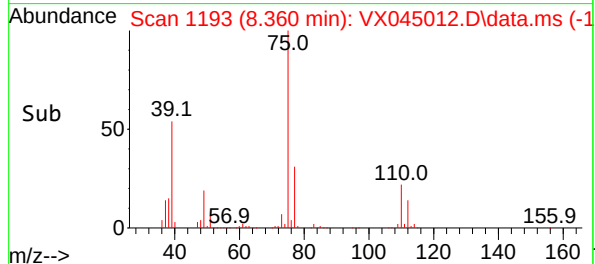
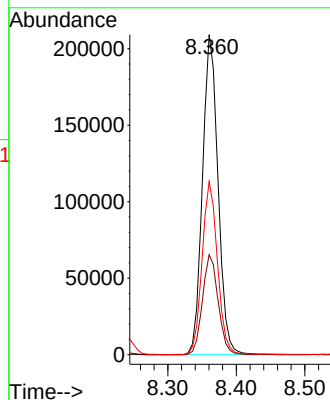
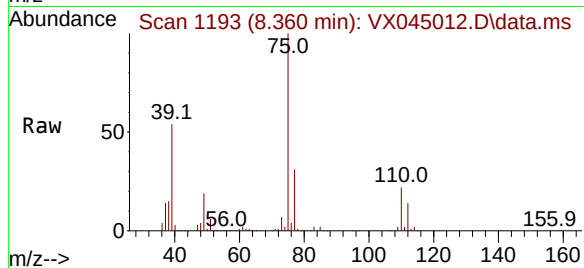
39 54.0 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

1,1,2-Trichloroethane

Concen: 149.917 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Tgt Ion: 97 Resp: 183455

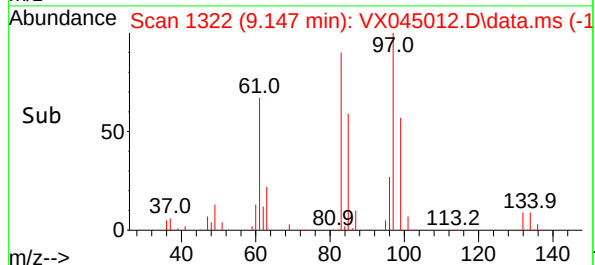
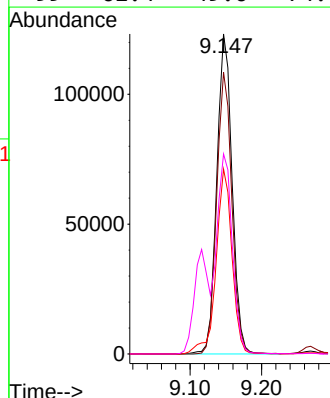
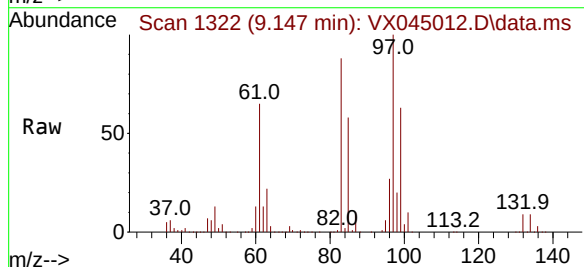
Ion Ratio Lower Upper

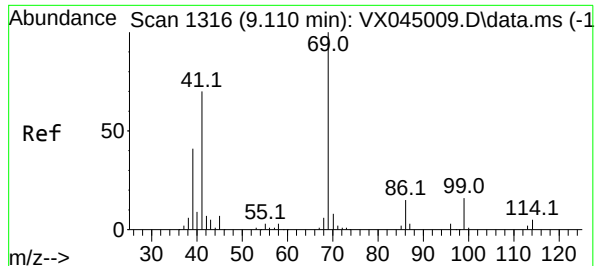
97 100

83 88.1 66.0 99.0

85 57.8 42.5 63.7

99 62.4 49.6 74.4





#51

Ethyl methacrylate

Concen: 167.857 ug/l

RT: 9.116 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 69 Resp: 323054

Ion Ratio Lower Upper

69 100

41 70.2 35.1 105.3

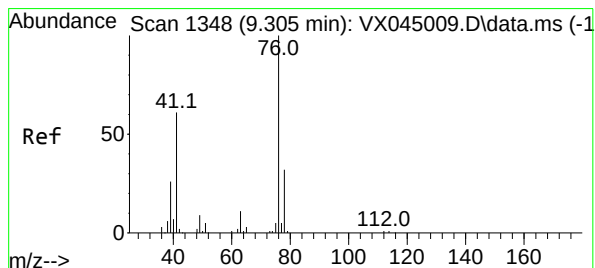
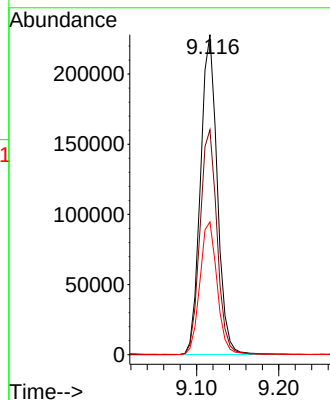
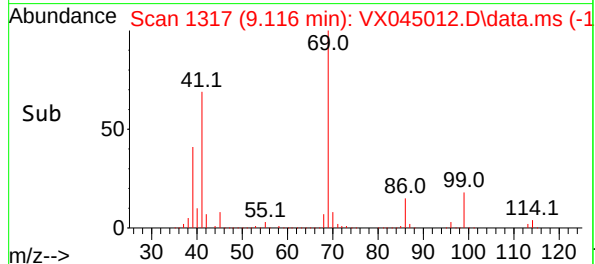
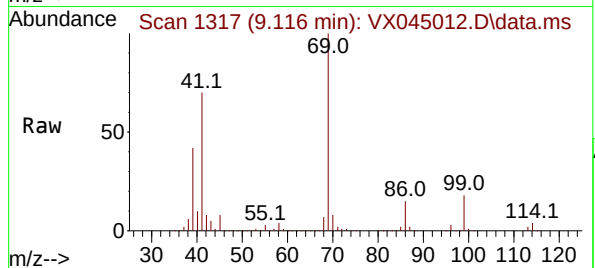
39 41.5 20.5 61.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#52

1,3-Dichloropropane

Concen: 152.762 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045012.D

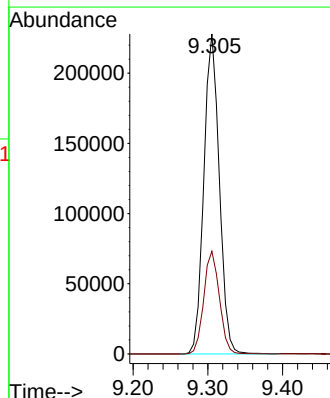
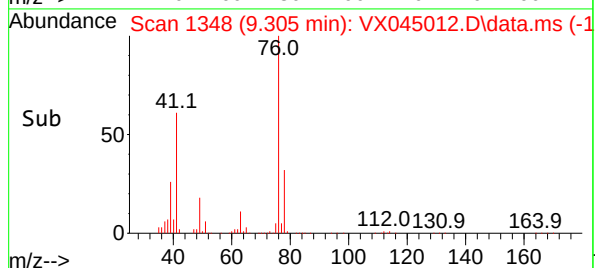
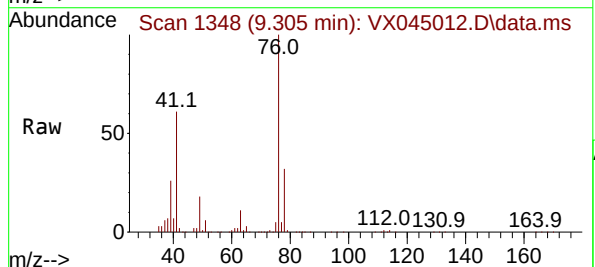
Acq: 21 Feb 2025 11:29

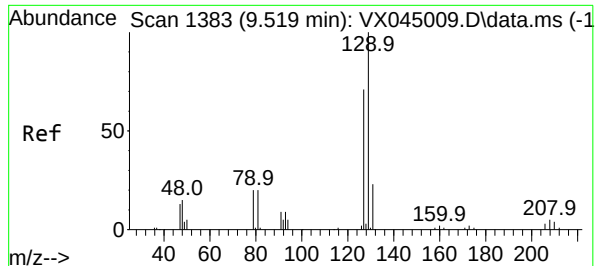
Tgt Ion: 76 Resp: 327551

Ion Ratio Lower Upper

76 100

78 32.4 0.0 63.6





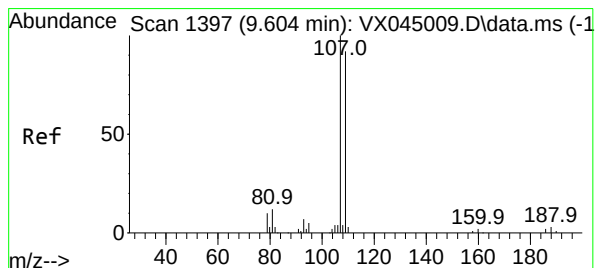
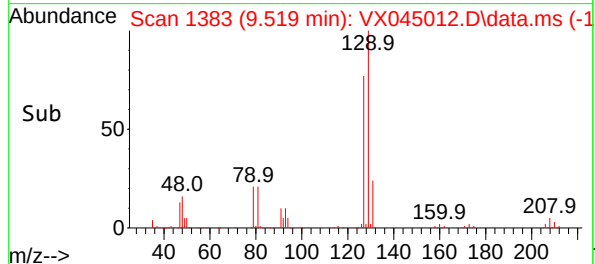
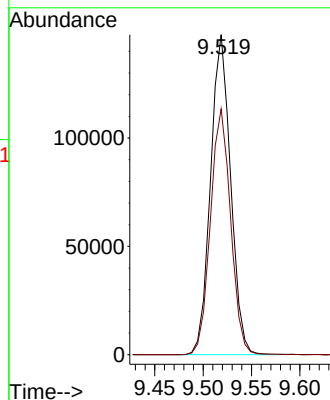
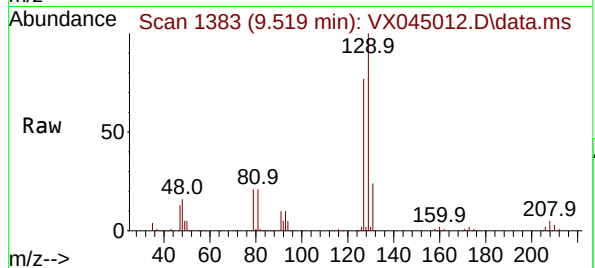
#53  
Dibromochloromethane  
Concen: 157.620 ug/l  
RT: 9.519 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion:129 Resp: 213320  
Ion Ratio Lower Upper  
129 100  
127 77.2 37.3 111.9

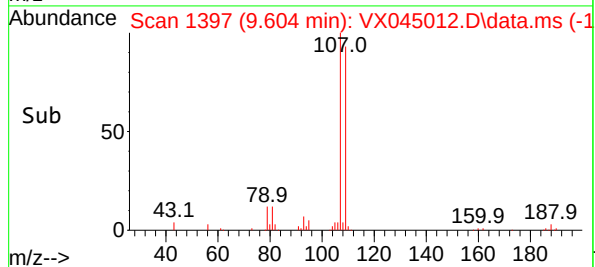
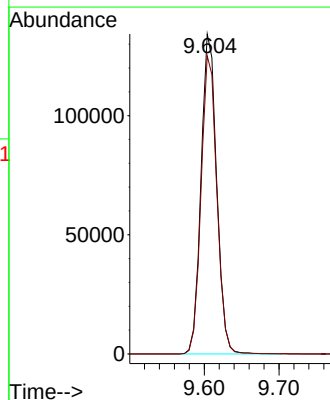
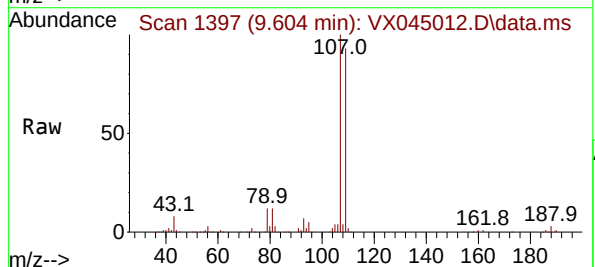
Manual Integrations  
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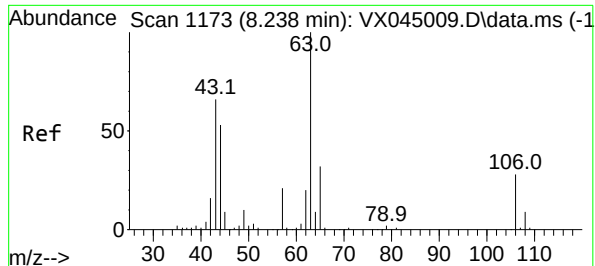
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#54  
1,2-Dibromoethane  
Concen: 156.632 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:107 Resp: 194634  
Ion Ratio Lower Upper  
107 100  
109 94.0 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 798.256 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 788934

Ion Ratio Lower Upper

63 100

65 32.1 26.2 39.2

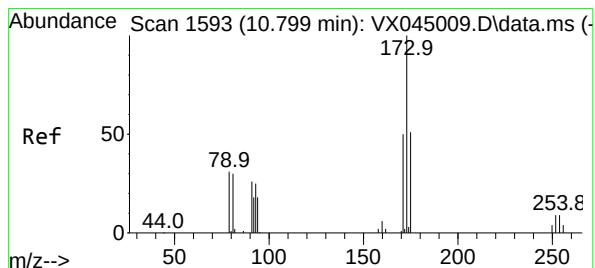
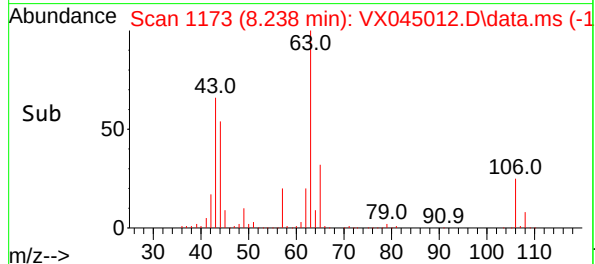
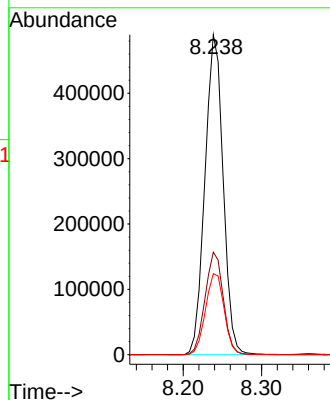
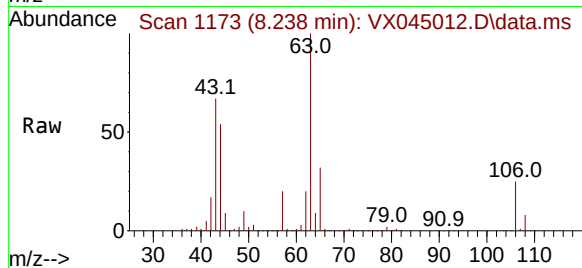
106 26.0 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#56

Bromoform

Concen: 165.340 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

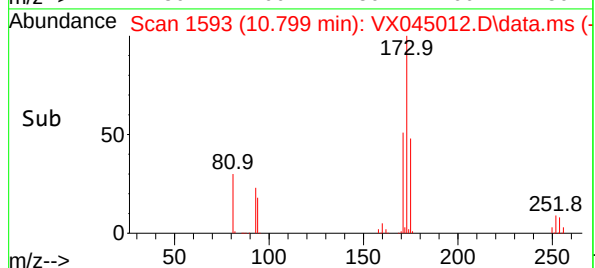
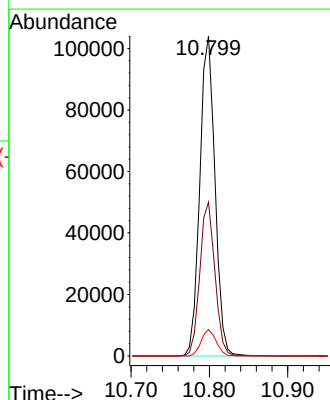
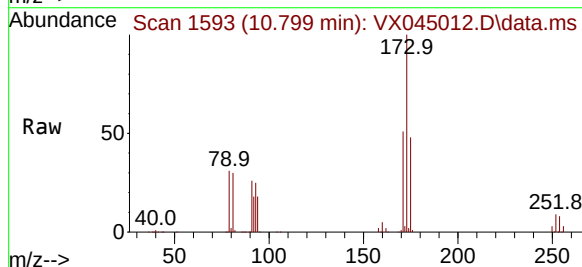
Tgt Ion:173 Resp: 140224

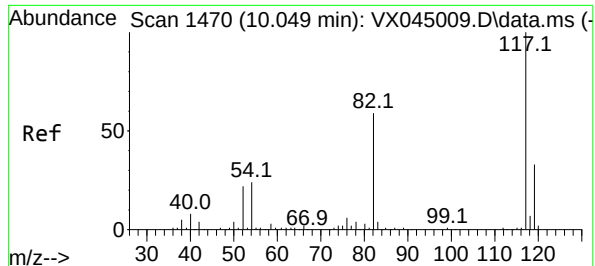
Ion Ratio Lower Upper

173 100

175 47.7 39.6 59.4

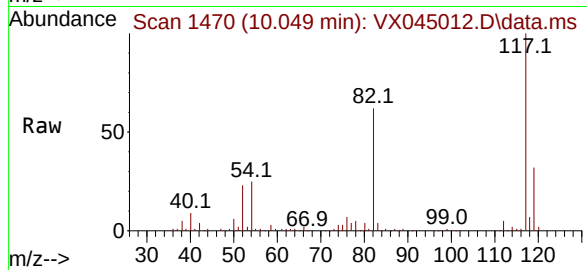
254 8.2 6.3 9.5





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

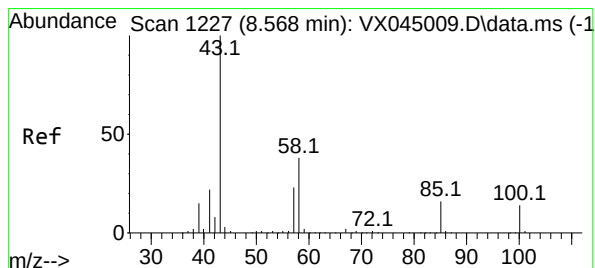
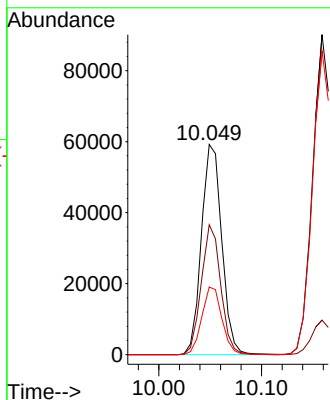
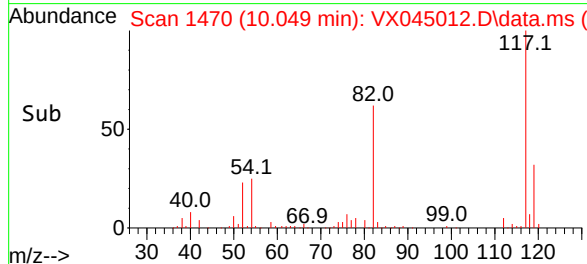
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion: 117 Resp: 81702  
Ion Ratio Lower Upper  
117 100  
82 59.0 45.8 68.8  
119 31.7 25.5 38.3

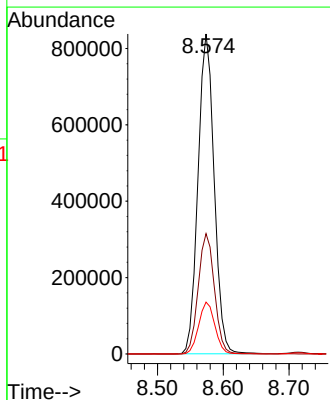
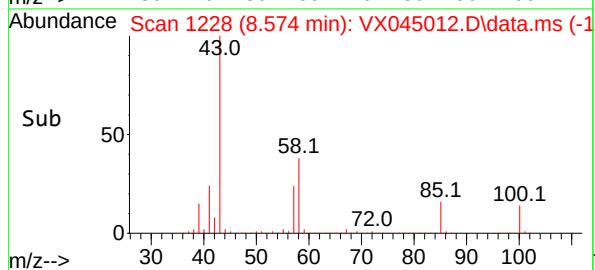
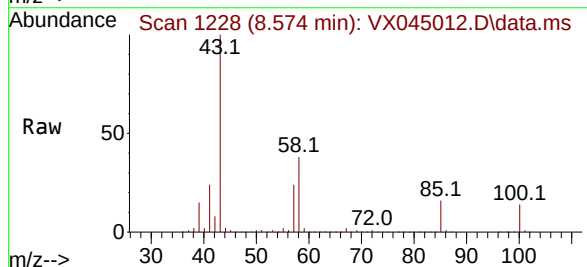
Manual Integrations  
APPROVED

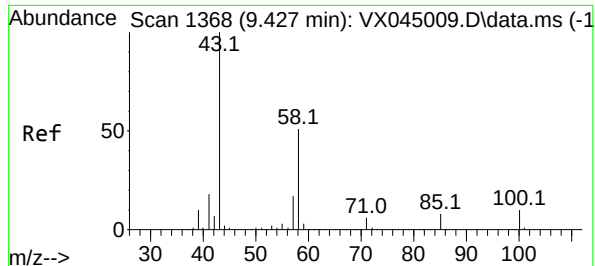
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 770.025 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 1431130  
Ion Ratio Lower Upper  
43 100  
58 37.6 29.5 44.3  
85 16.3 12.9 19.3





#59

2-Hexanone

Concen: 784.964 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 105450

Ion Ratio Lower Upper

43 100

58 52.4 41.6 62.4

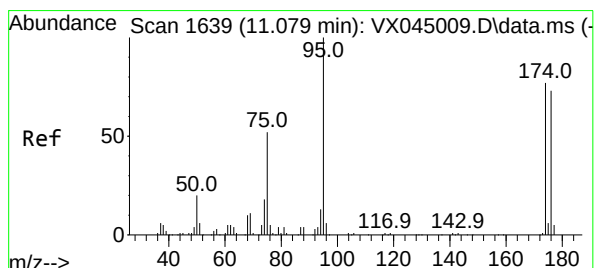
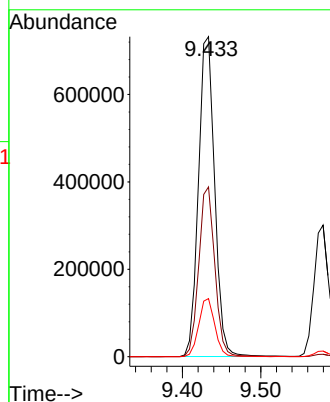
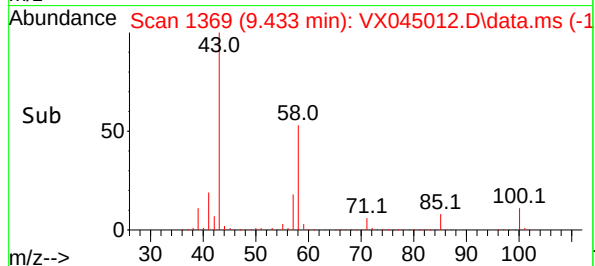
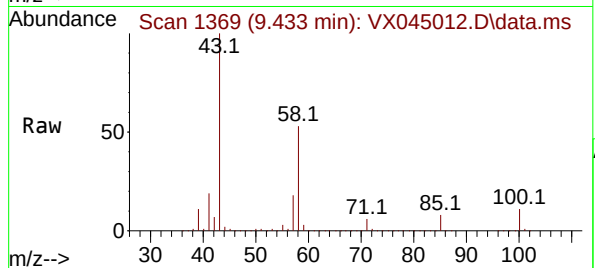
57 18.0 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#60

4-Bromofluorobenzene

Concen: 30.907 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

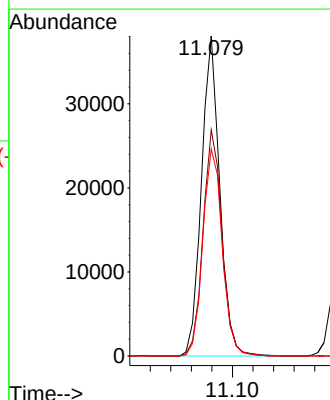
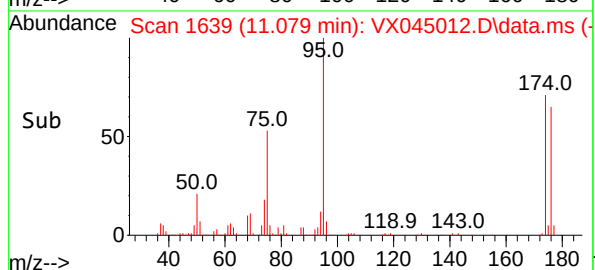
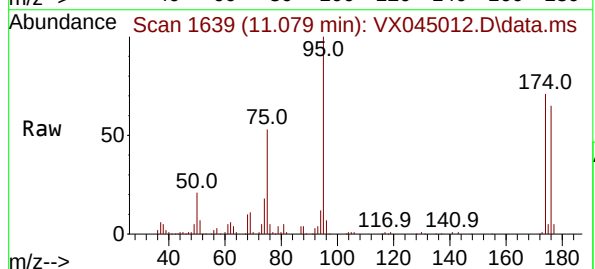
Tgt Ion: 95 Resp: 47199

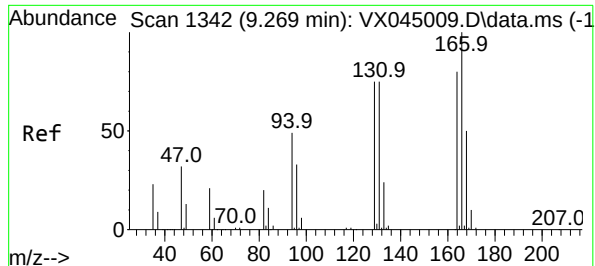
Ion Ratio Lower Upper

95 100

174 73.3 59.5 89.3

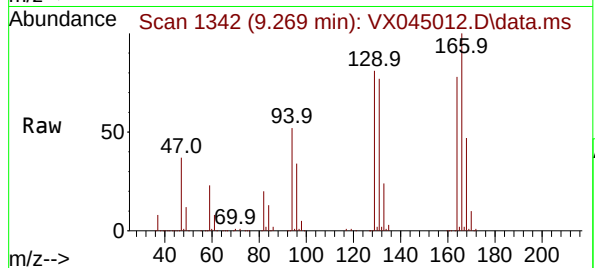
176 68.6 55.5 83.3





#61  
Tetrachloroethene  
Concen: 148.903 ug/l  
RT: 9.269 min Scan# 1342  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

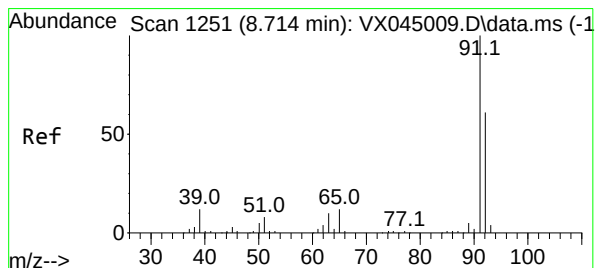
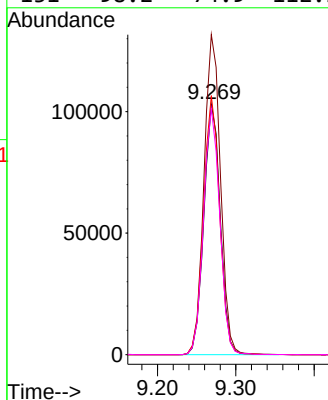
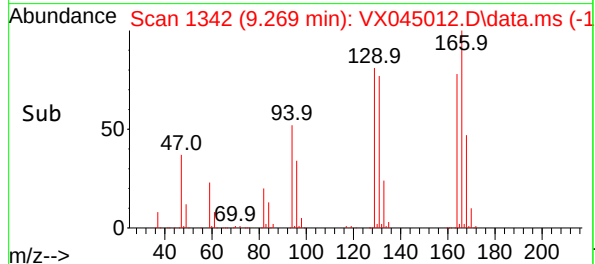
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion:164 Resp: 149808  
Ion Ratio Lower Upper  
164 100  
166 127.7 100.3 150.5  
129 103.4 75.5 113.3  
131 98.2 74.9 112.3

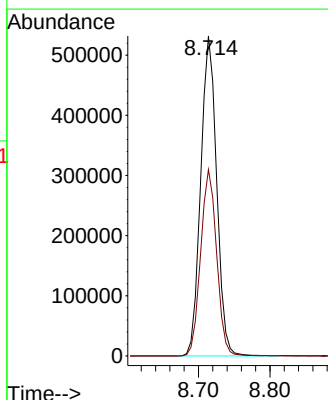
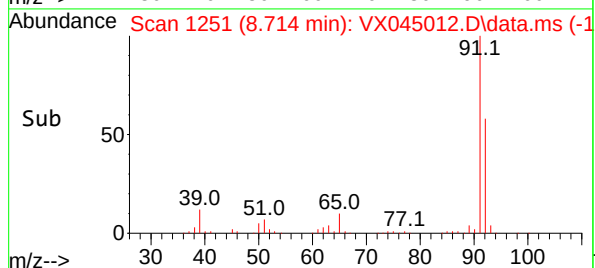
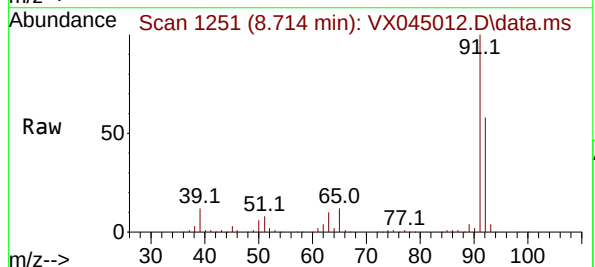
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

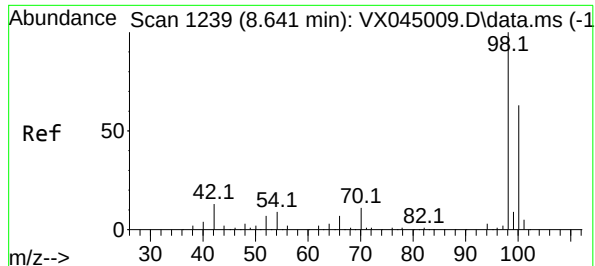


#62  
Toluene  
Concen: 152.359 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 824606  
Ion Ratio Lower Upper  
91 100  
92 58.3 46.9 70.3







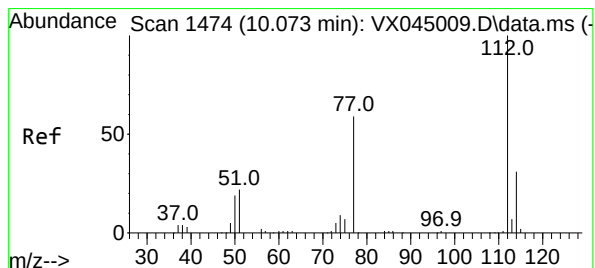
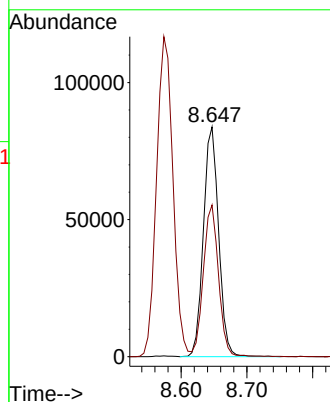
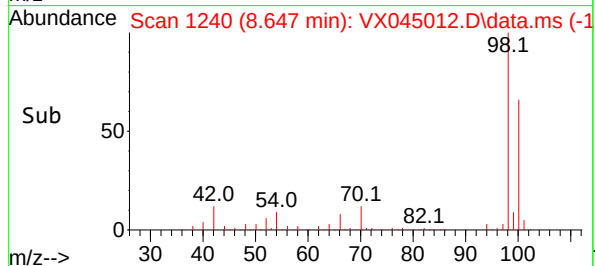
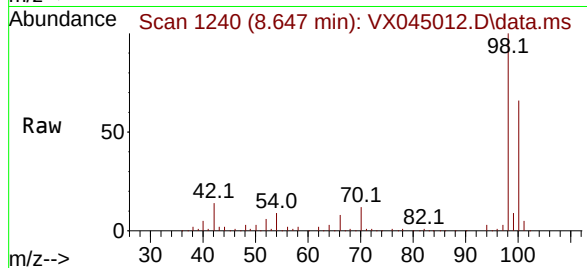
#63  
Toluene-d8  
Concen: 29.835 ug/l  
RT: 8.647 min Scan# 1239  
Delta R.T. 0.006 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion: 98 Resp: 134852  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.7 77.5

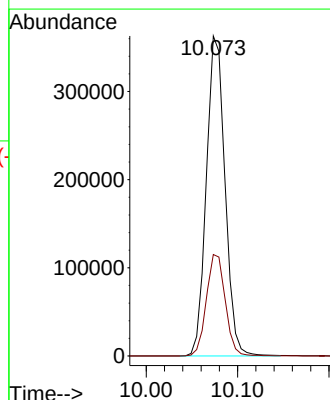
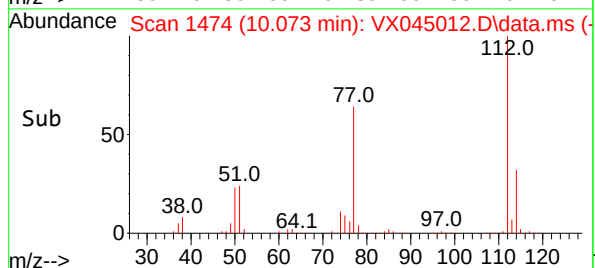
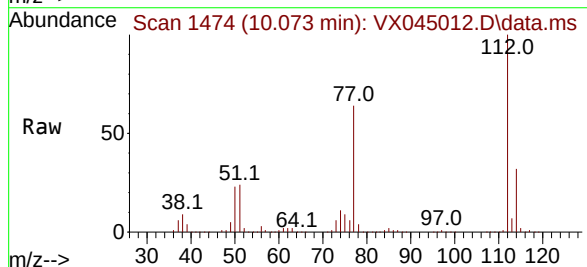
Manual Integrations  
APPROVED

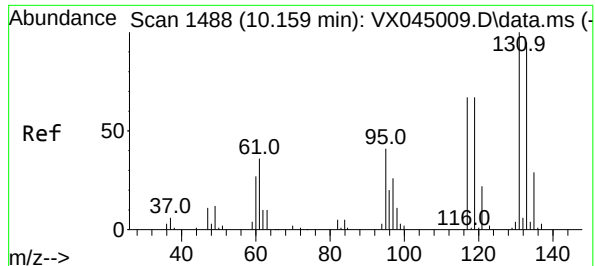
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#64  
Chlorobenzene  
Concen: 153.126 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:112 Resp: 513552  
Ion Ratio Lower Upper  
112 100  
114 31.7 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 158.260 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:131 Resp: 175139

Ion Ratio Lower Upper

131 100

133 95.6 0.0 187.8

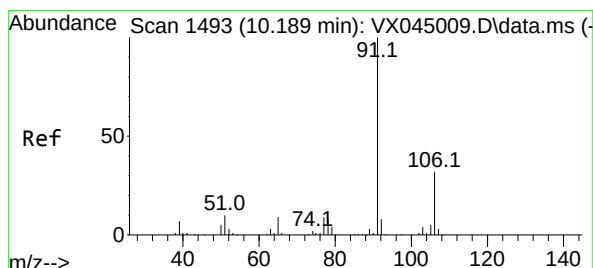
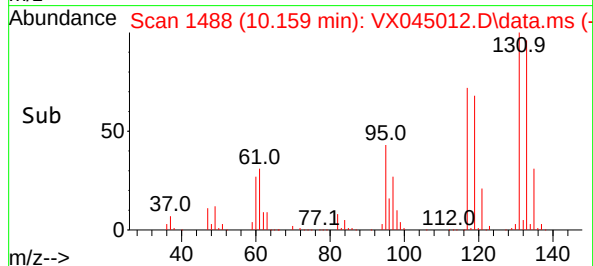
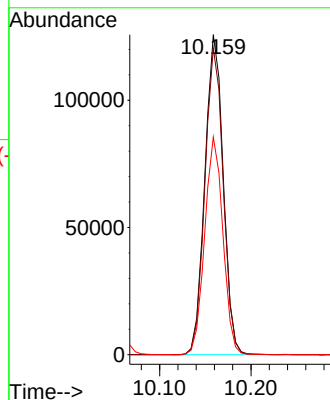
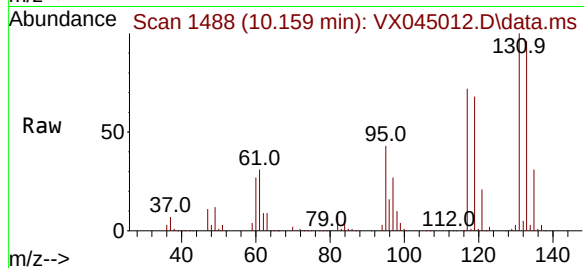
119 67.4 0.0 133.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#66

Ethyl Benzene

Concen: 157.604 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX045012.D

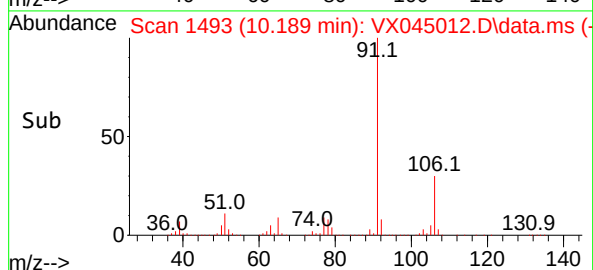
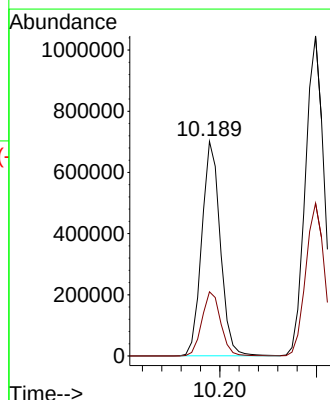
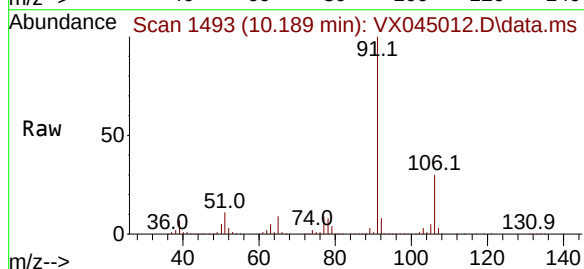
Acq: 21 Feb 2025 11:29

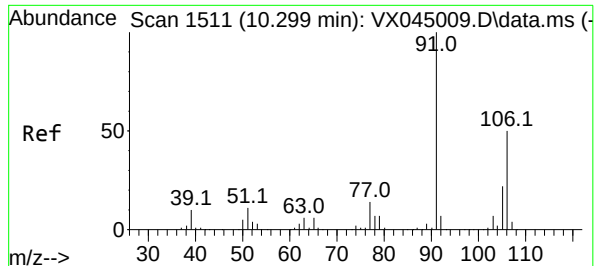
Tgt Ion: 91 Resp: 933862

Ion Ratio Lower Upper

91 100

106 29.9 25.4 38.2





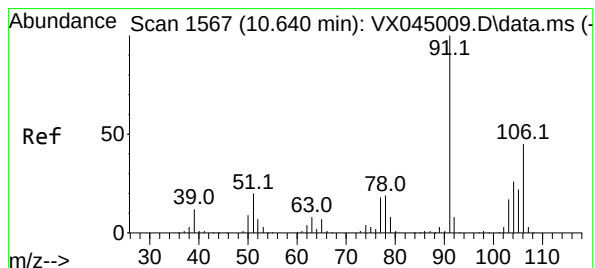
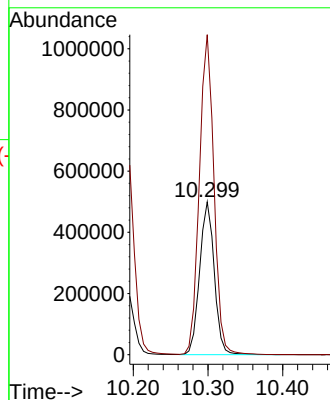
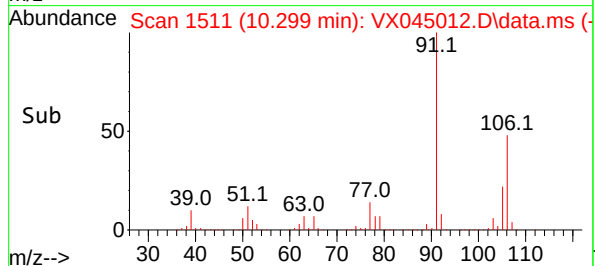
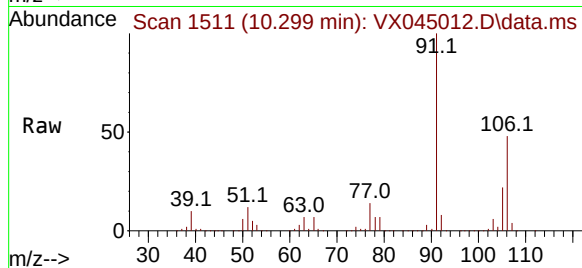
#67  
m/p-Xylenes  
Concen: 307.573 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion:106 Resp: 679028  
Ion Ratio Lower Upper  
106 100  
91 208.5 163.7 245.5

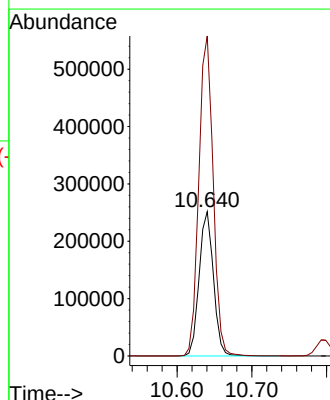
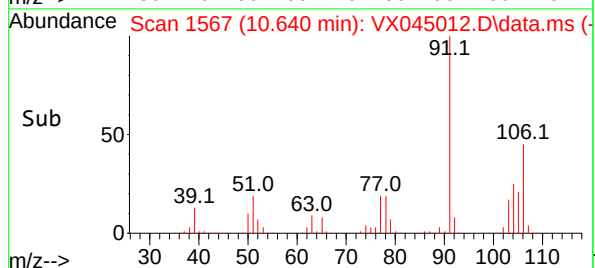
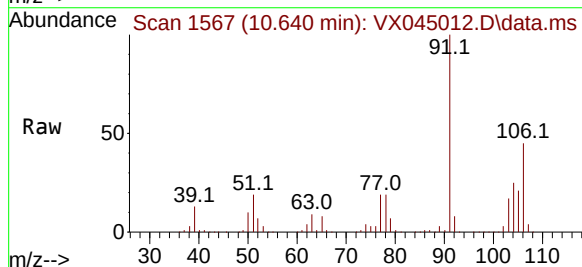
Manual Integrations  
APPROVED

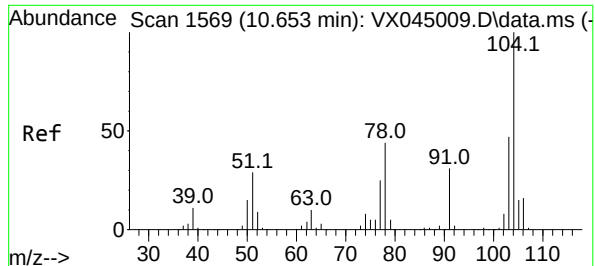
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#68  
o-Xylene  
Concen: 153.922 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:106 Resp: 333410  
Ion Ratio Lower Upper  
106 100  
91 222.3 109.7 329.1





#69

Styrene

Concen: 156.470 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:104 Resp: 566072

Ion Ratio Lower Upper

104 100

78 54.2 41.4 62.0

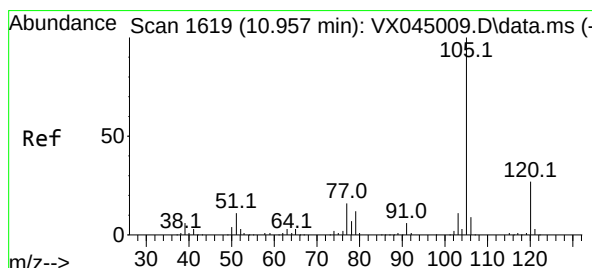
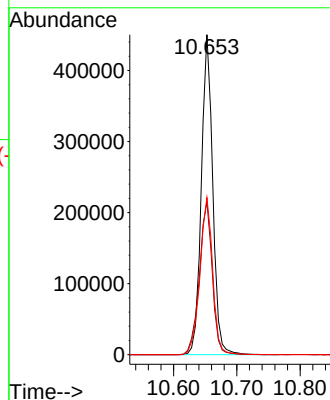
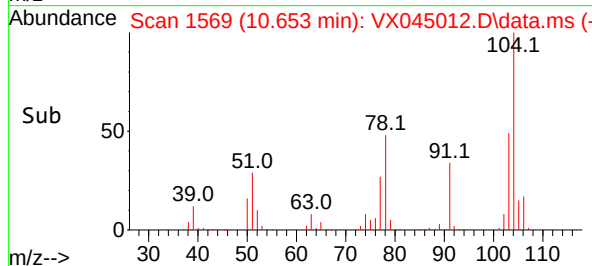
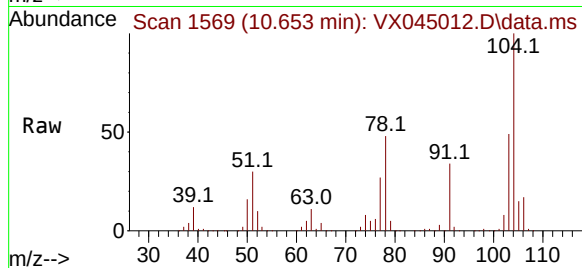
103 54.8 43.0 64.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#70

Isopropylbenzene

Concen: 155.350 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX045012.D

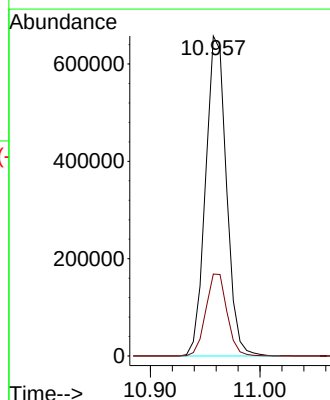
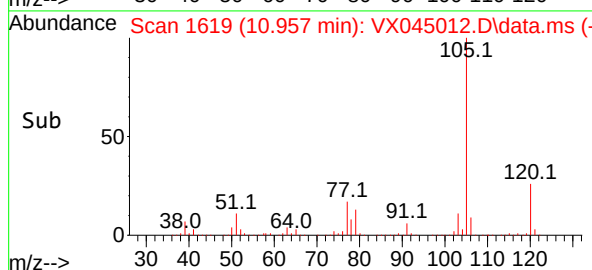
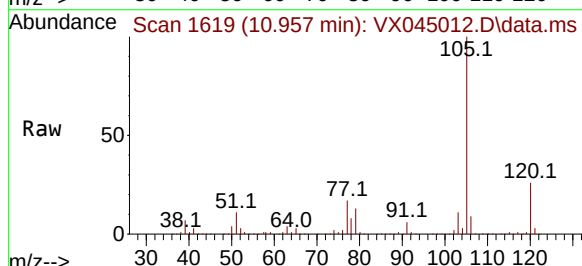
Acq: 21 Feb 2025 11:29

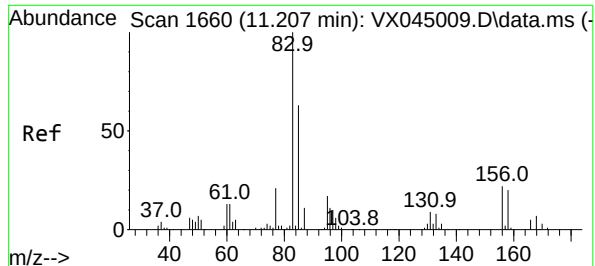
Tgt Ion:105 Resp: 868382

Ion Ratio Lower Upper

105 100

120 26.1 18.4 34.2





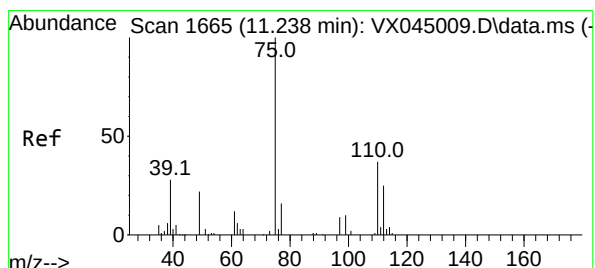
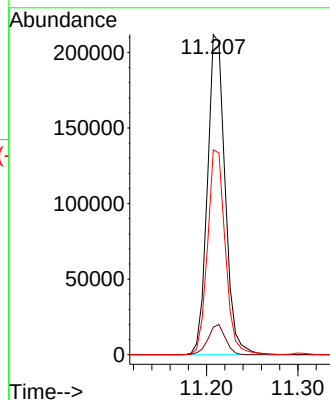
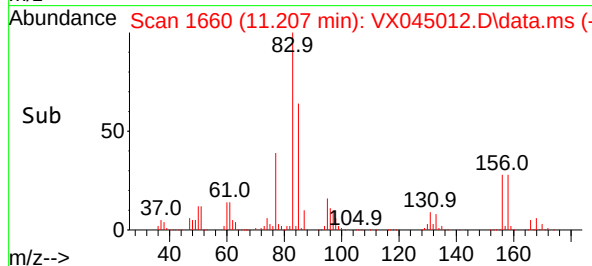
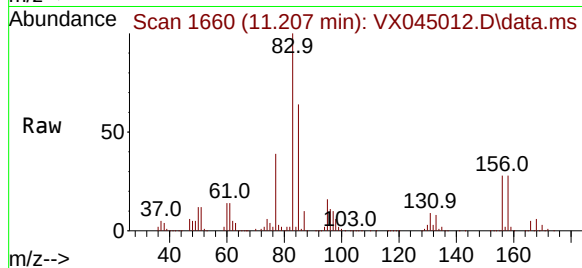
#71  
1,1,2,2-Tetrachloroethane  
Concen: 154.359 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 83 Resp: 28373  
Ion Ratio Lower Upper  
83 100  
131 9.2 4.8 14.3  
85 64.2 32.3 96.8

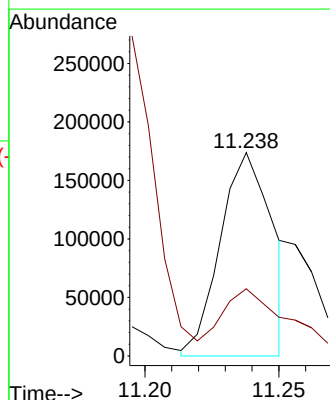
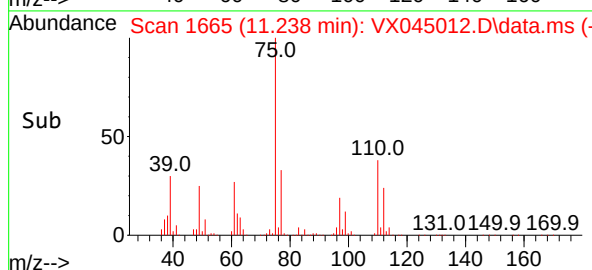
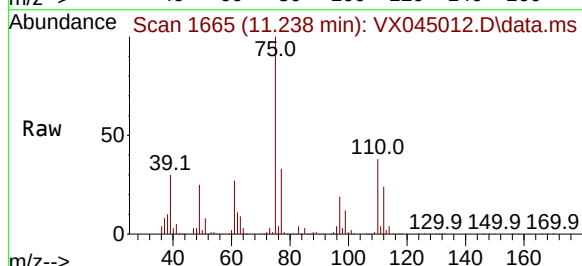
Manual Integrations  
APPROVED

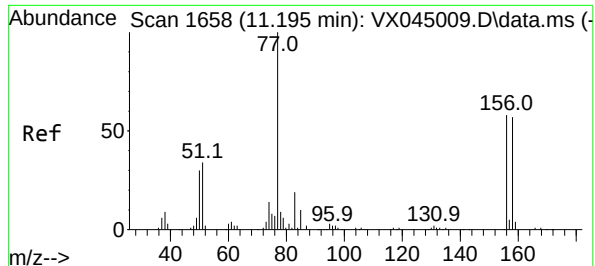
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 155.182 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

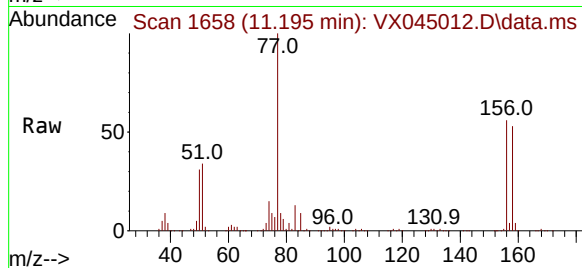
Tgt Ion: 75 Resp: 234613  
Ion Ratio Lower Upper  
75 100  
77 43.4 0.0 84.0





#73  
Bromobenzene  
Concen: 154.147 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

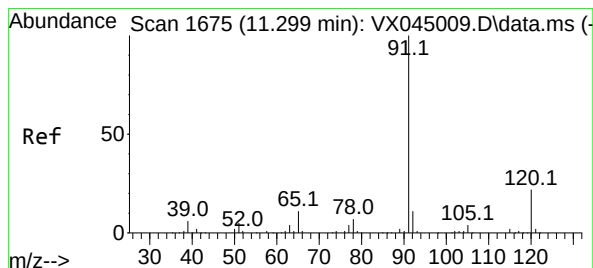
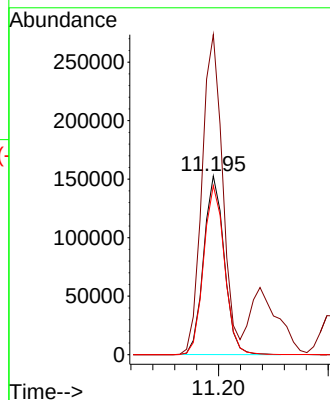
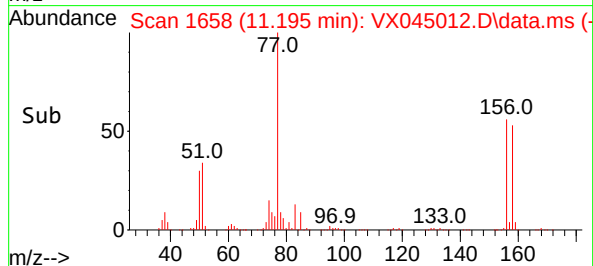
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:156 Resp: 198360  
Ion Ratio Lower Upper  
156 100  
77 180.7 0.0 347.2  
158 96.4 0.0 197.6

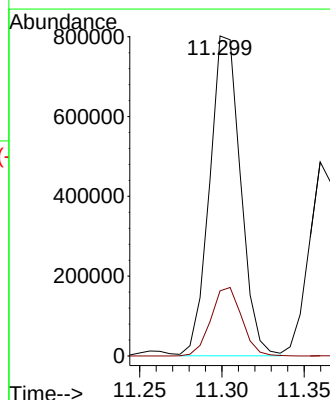
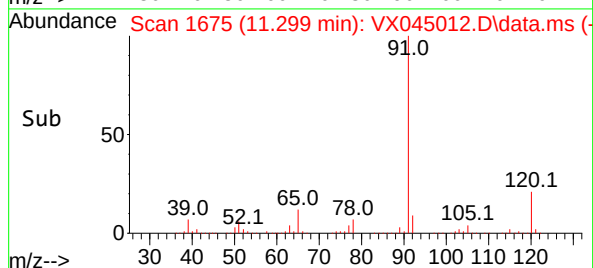
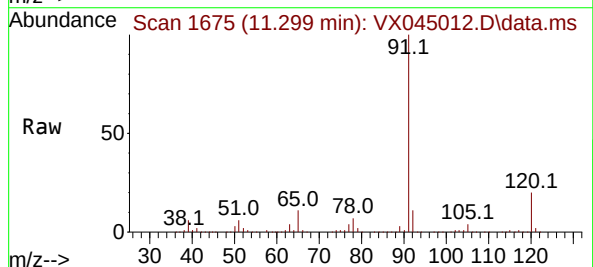
Manual Integrations  
APPROVED

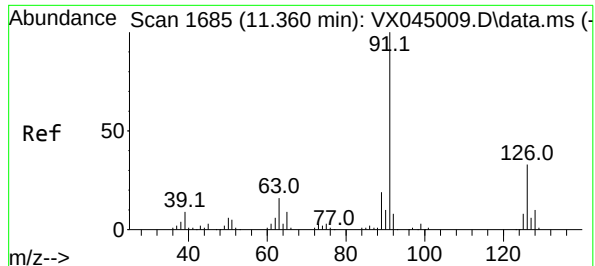
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#74  
n-propylbenzene  
Concen: 157.793 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 1049645  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 44.2





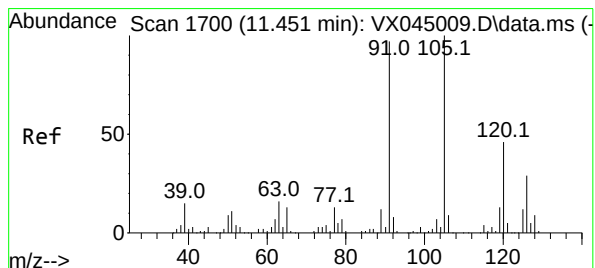
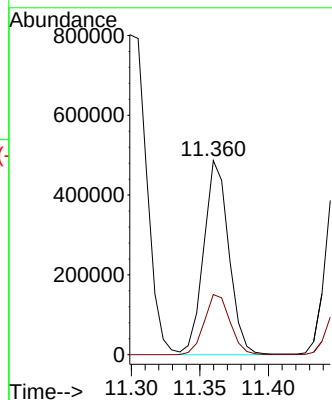
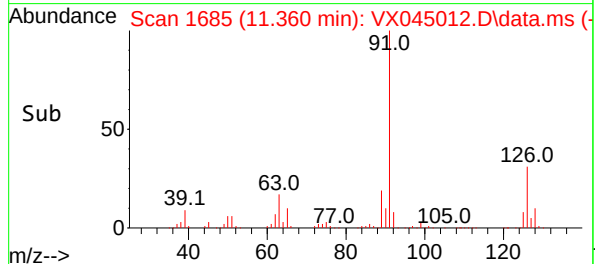
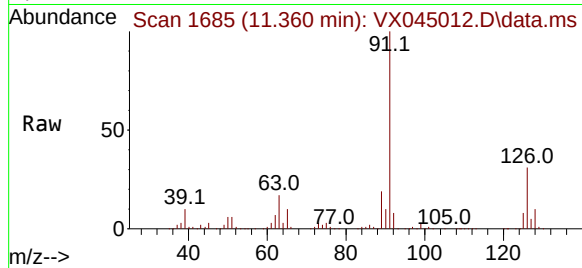
#75  
2-Chlorotoluene  
Concen: 153.997 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

Tgt Ion: 91 Resp: 619308  
Ion Ratio Lower Upper  
91 100  
126 31.8 0.0 65.4

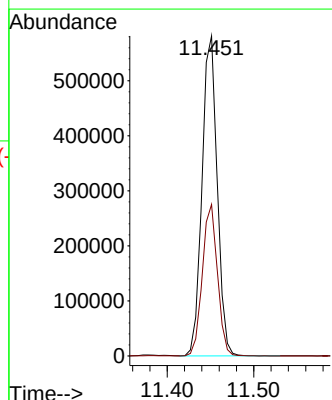
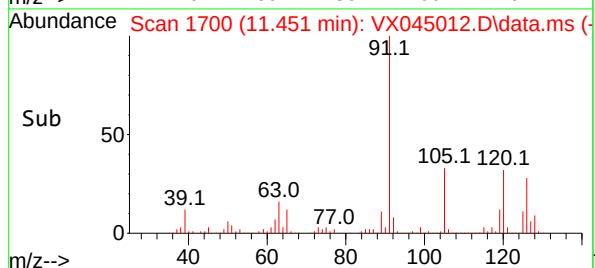
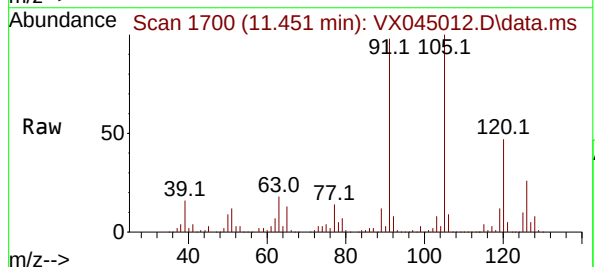
Manual Integrations  
APPROVED

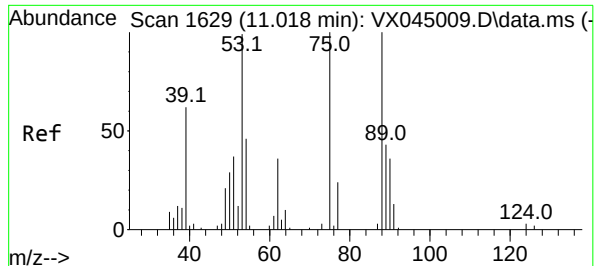
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#76  
1,3,5-Trimethylbenzene  
Concen: 153.508 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:105 Resp: 707908  
Ion Ratio Lower Upper  
105 100  
120 47.0 0.0 94.4





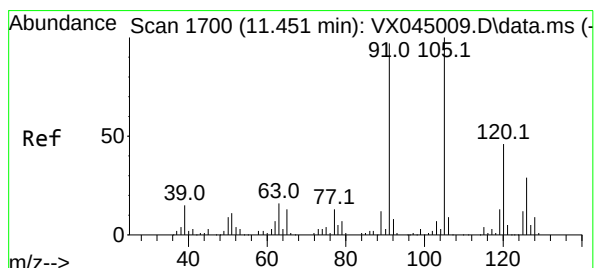
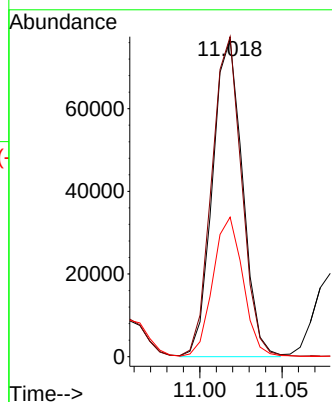
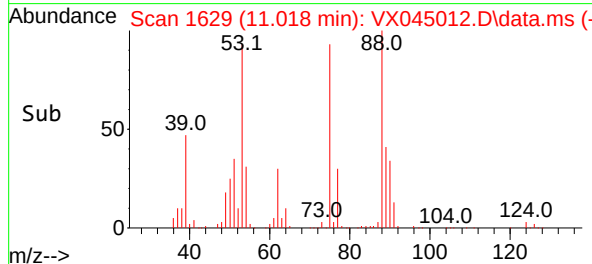
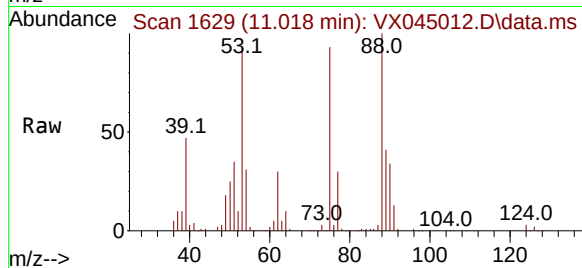
#77  
t-1,4-Dichloro-2-butene  
Concen: 191.694 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 100.7 | 49.8  | 149.4 |
| 89      | 43.9  | 21.4  | 64.2  |

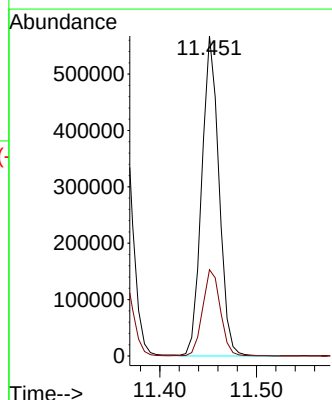
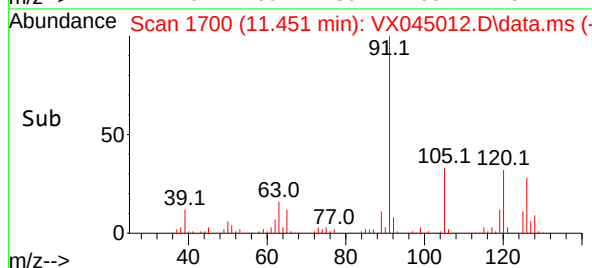
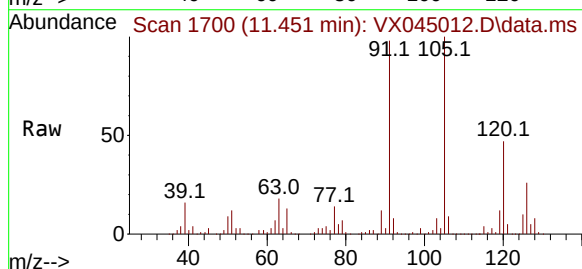
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025

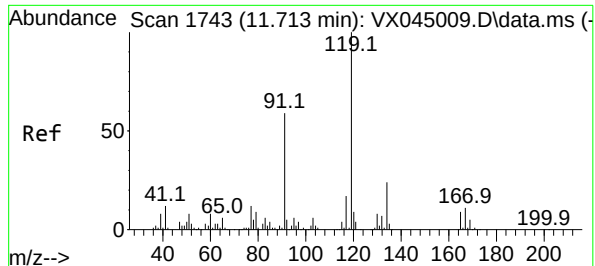


#78  
4-Chlorotoluene  
Concen: 157.047 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 27.7  | 0.0   | 58.0  |







#79

tert-butylbenzene

Concen: 154.110 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 716064

Ion Ratio Lower Upper

119 100

91 61.0 0.0 120.6

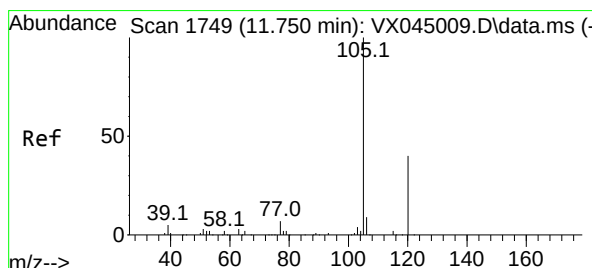
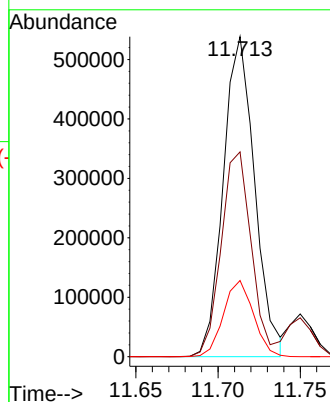
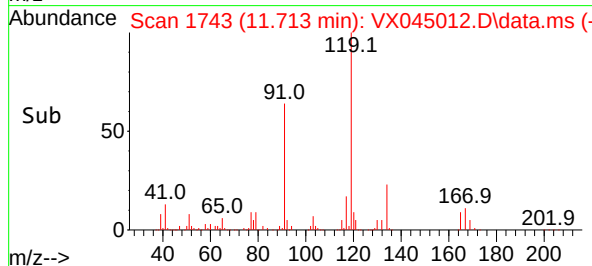
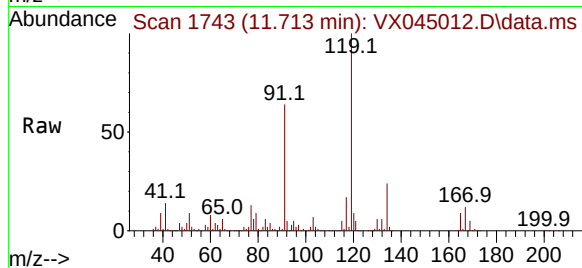
134 22.8 0.0 48.2

Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#80

1,2,4-Trimethylbenzene

Concen: 153.746 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045012.D

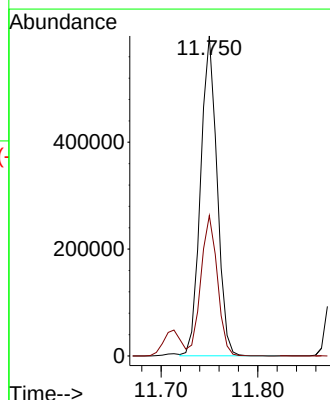
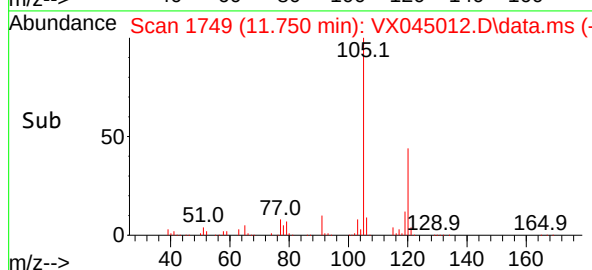
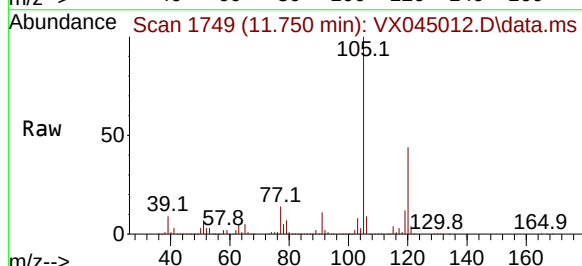
Acq: 21 Feb 2025 11:29

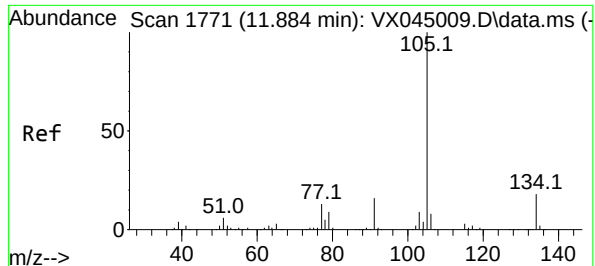
Tgt Ion:105 Resp: 710215

Ion Ratio Lower Upper

105 100

120 44.1 0.0 88.4





#81

sec-Butylbenzene

Concen: 156.100 ug/l

RT: 11.890 min Scan# 1771

Delta R.T. 0.006 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 910294

Ion Ratio Lower Upper

105 100

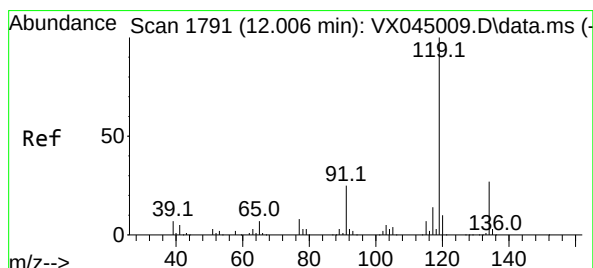
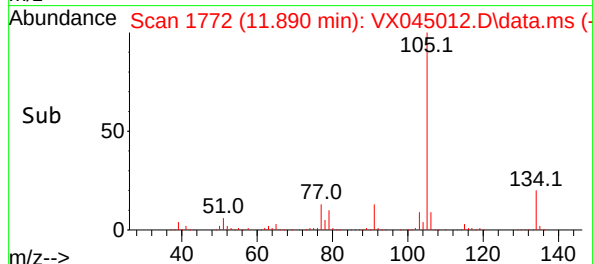
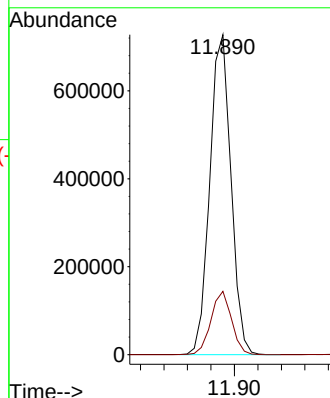
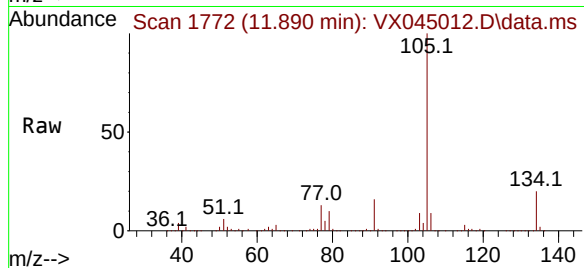
134 19.3 0.0 39.0

Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#82

p-Isopropyltoluene

Concen: 156.297 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

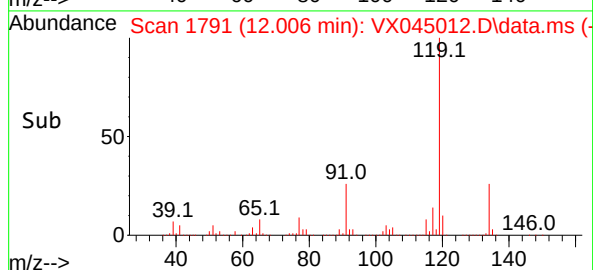
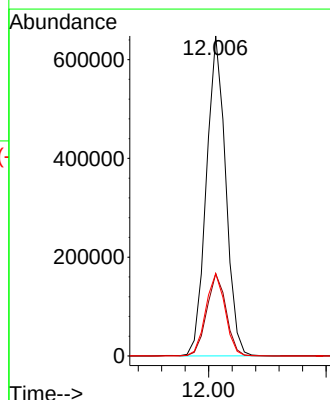
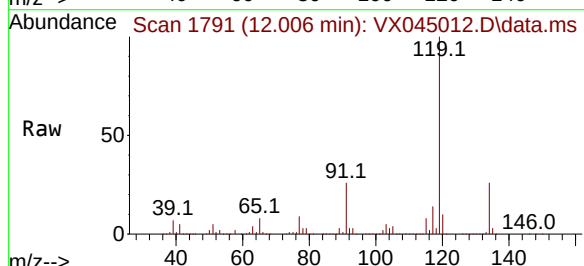
Tgt Ion:119 Resp: 738494

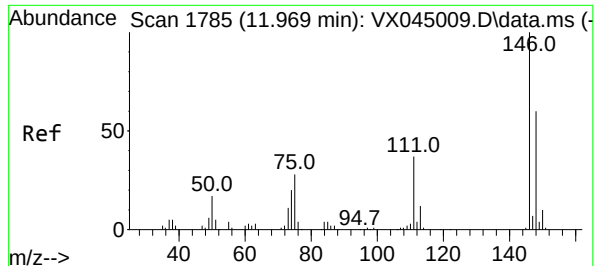
Ion Ratio Lower Upper

119 100

134 25.8 0.0 52.6

91 25.9 0.0 51.0





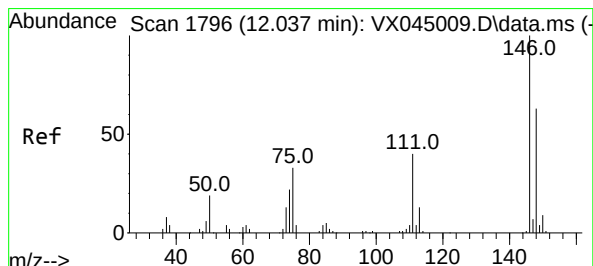
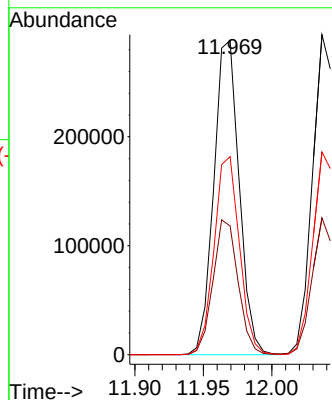
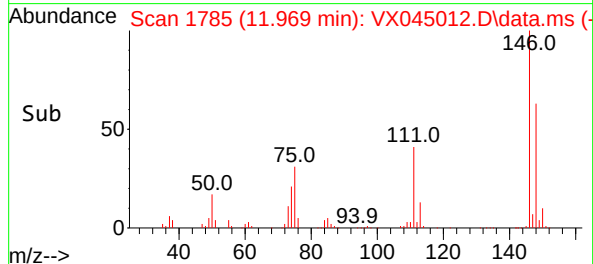
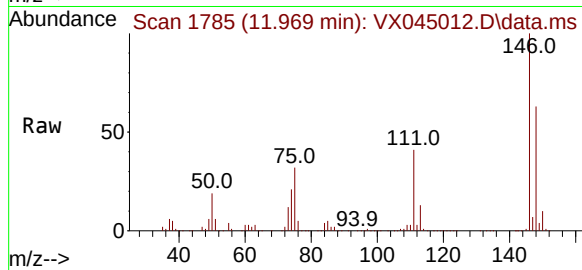
#83  
1,3-Dichlorobenzene  
Concen: 155.340 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Tgt Ion:146 Resp: 37192  
Ion Ratio Lower Upper  
146 100  
111 42.5 20.2 60.5  
148 63.0 31.2 93.6

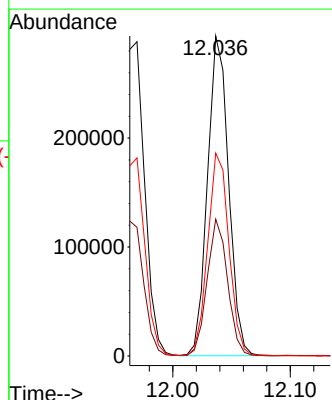
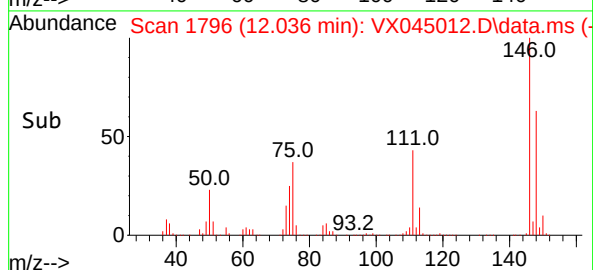
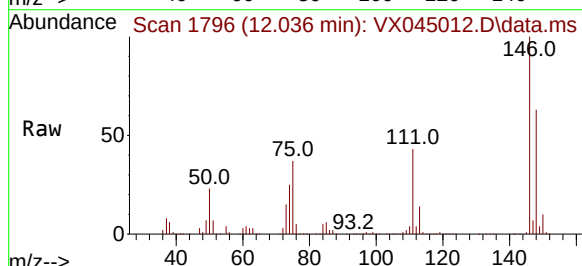
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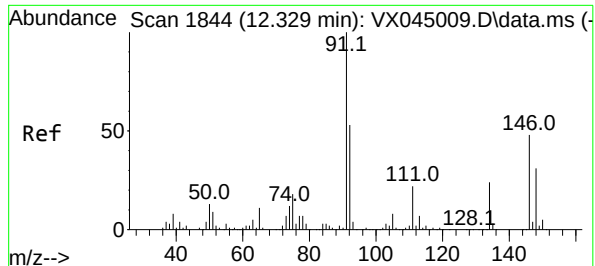
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#84  
1,4-Dichlorobenzene  
Concen: 155.264 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:146 Resp: 366532  
Ion Ratio Lower Upper  
146 100  
111 41.7 20.4 61.2  
148 63.6 31.8 95.4





#85

n-Butylbenzene

Concen: 164.749 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 710840

Ion Ratio Lower Upper

91 100

92 53.7 0.0 105.2

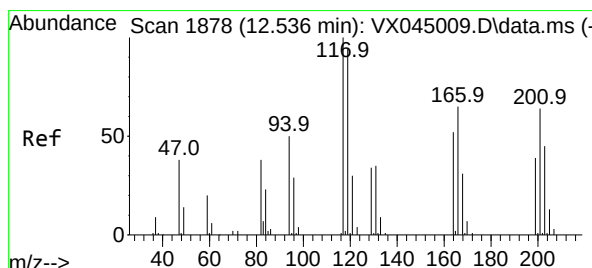
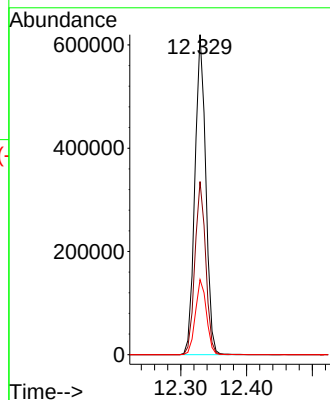
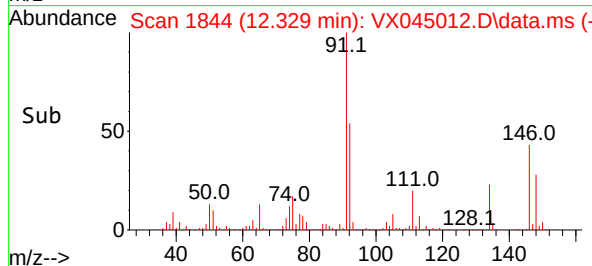
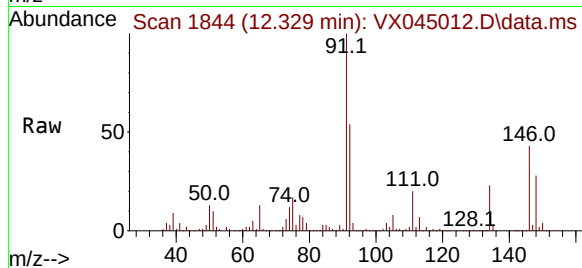
134 23.9 0.0 49.4

Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#86

Hexachloroethane

Concen: 170.855 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045012.D

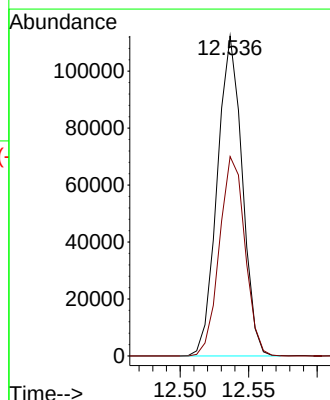
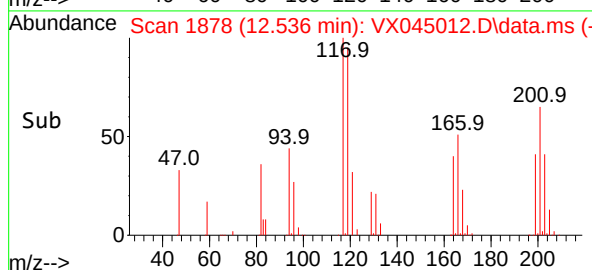
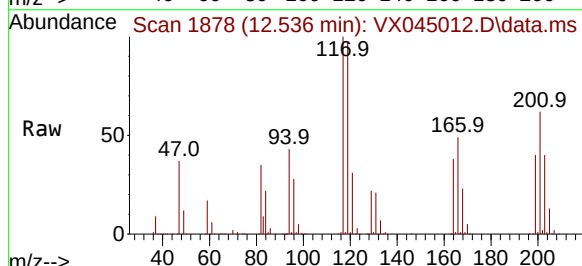
Acq: 21 Feb 2025 11:29

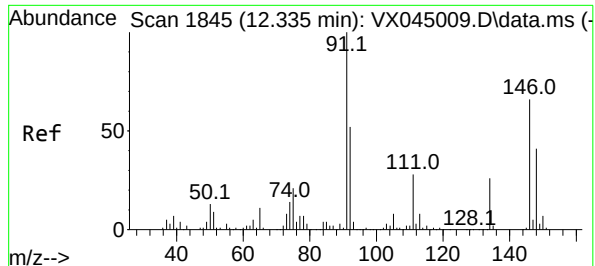
Tgt Ion:117 Resp: 142372

Ion Ratio Lower Upper

117 100

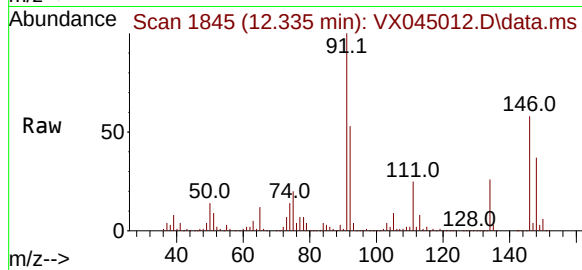
201 63.8 32.6 97.7





#87  
1,2-Dichlorobenzene  
Concen: 151.688 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

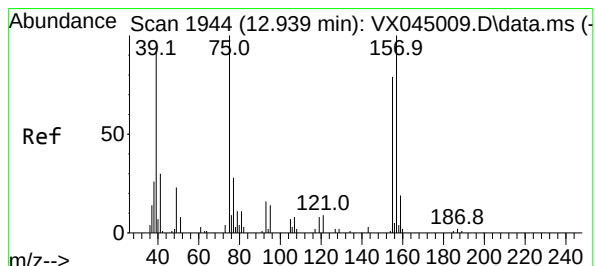
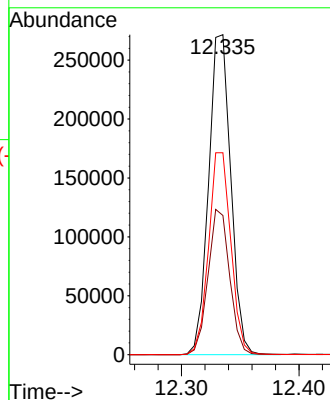
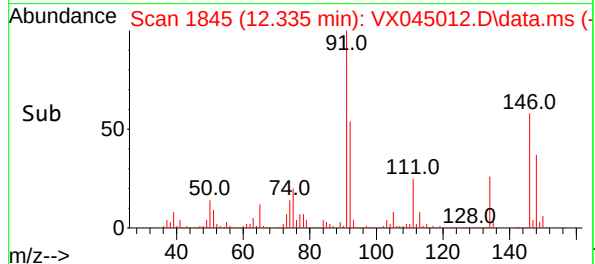
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC150



Tgt Ion:146 Resp: 35634  
Ion Ratio Lower Upper  
146 100  
111 44.2 21.7 65.1  
148 63.4 31.8 95.4

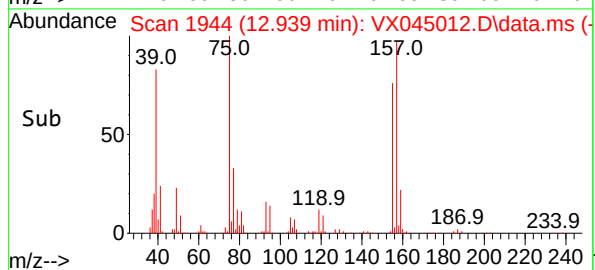
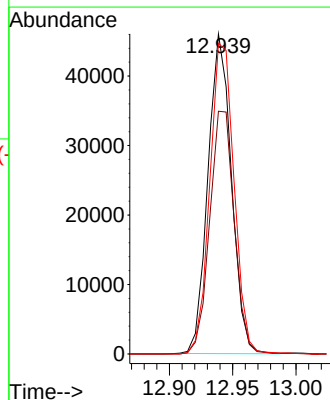
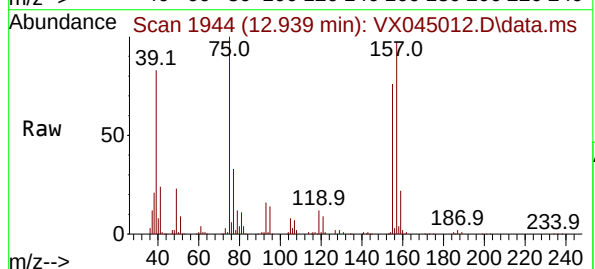
Manual Integrations  
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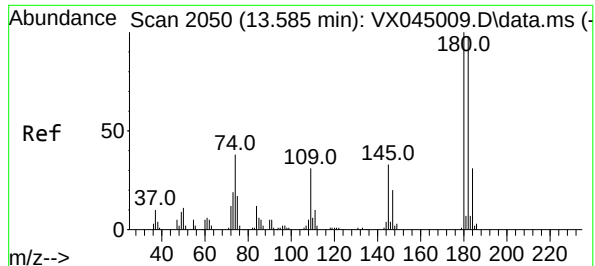
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 166.653 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 59310  
Ion Ratio Lower Upper  
75 100  
155 79.4 66.2 99.4  
157 100.8 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 167.248 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 238129

Ion Ratio Lower Upper

180 100

182 95.0 77.7 116.5

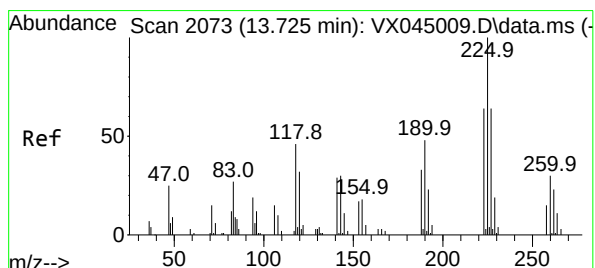
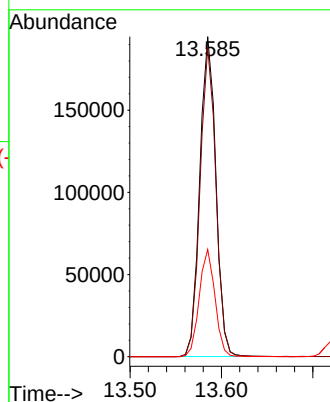
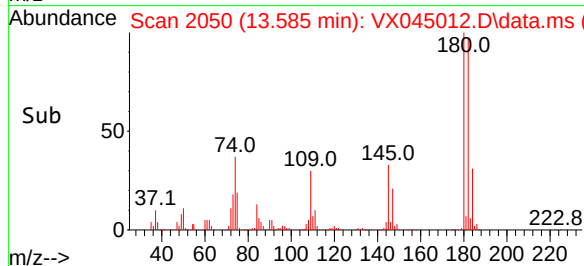
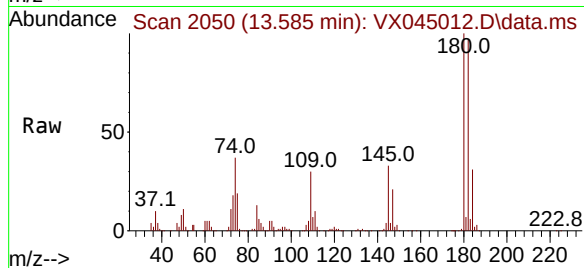
145 32.8 25.8 38.6

Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#90

Hexachlorobutadiene

Concen: 155.145 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX045012.D

Acq: 21 Feb 2025 11:29

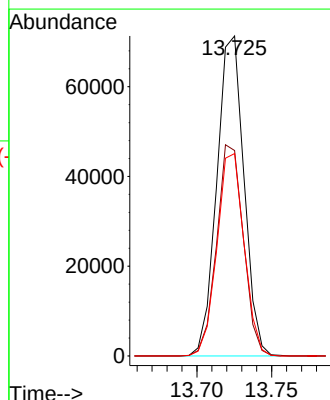
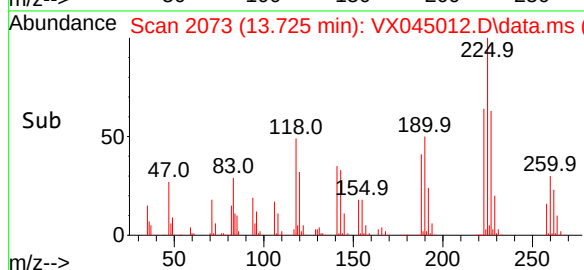
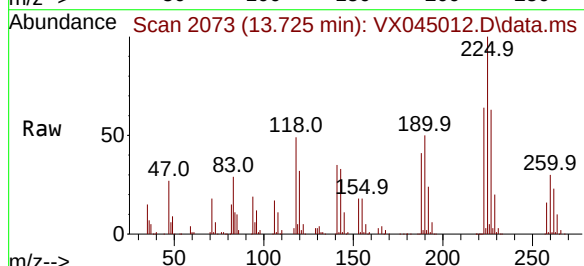
Tgt Ion:225 Resp: 90085

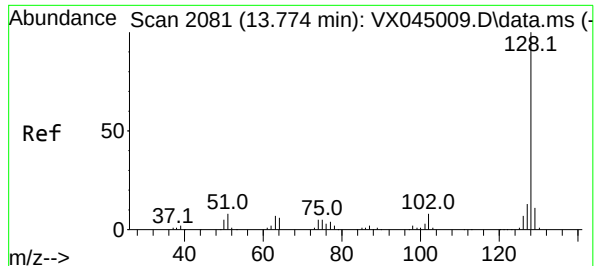
Ion Ratio Lower Upper

225 100

223 64.8 0.0 123.4

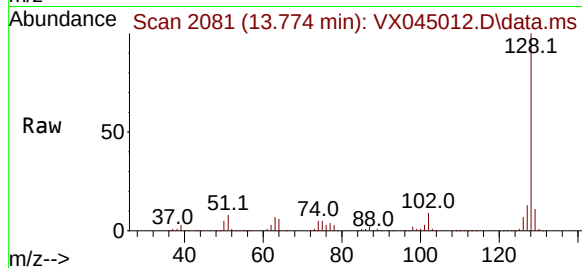
227 63.2 0.0 127.4





#91  
Naphthalene  
Concen: 165.262 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

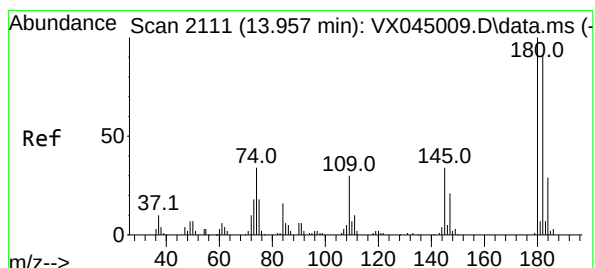
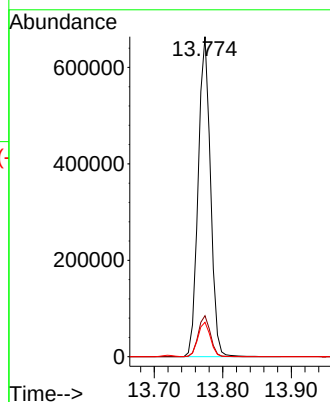
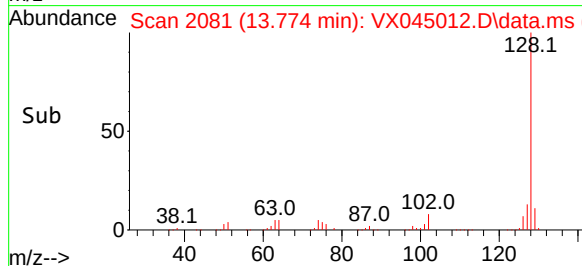
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150



Tgt Ion:128 Resp: 829698  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.5 15.7  
129 10.9 8.7 13.1

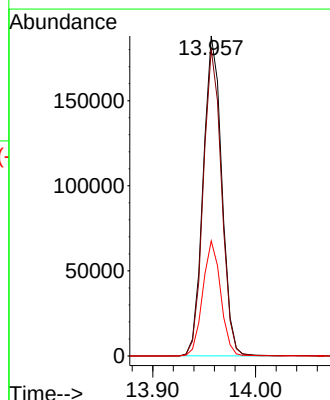
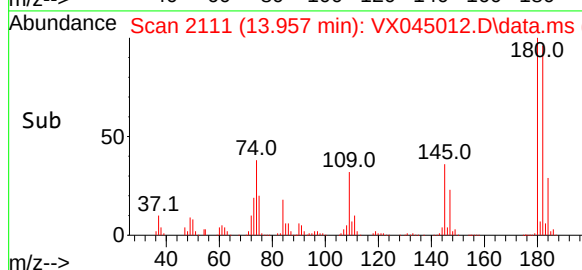
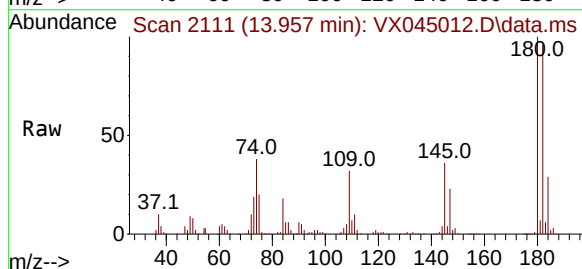
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 161.124 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX045012.D  
Acq: 21 Feb 2025 11:29

Tgt Ion:180 Resp: 236181  
Ion Ratio Lower Upper  
180 100  
182 94.5 0.0 186.6  
145 34.8 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.885          | 128  | 17826      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 98652      | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 90634      | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 51483      | 29.736   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 99.133%  |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 50982      | 30.094   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 100.300% |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 148516     | 29.620   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 98.733%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 27388      | 18.226   | ug/l   | 95       |
| 3) Chloromethane             | 1.294          | 50   | 32169      | 17.873   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 30221      | 17.401   | ug/l   | 99       |
| 5) Bromomethane              | 1.593          | 94   | 11792      | 19.506   | ug/l   | 97       |
| 6) Chloroethane              | 1.666          | 64   | 19435      | 20.662   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 41534      | 17.793   | ug/l   | 96       |
| 8) Diethyl Ether             | 2.130          | 74   | 15203      | 17.214   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 25031      | 18.055   | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 2.313          | 96   | 24494      | 18.088   | ug/l   | 95       |
| 11) Methyl Iodide            | 2.441          | 142  | 24257      | 15.827   | ug/l   | 95       |
| 12) Methyl Acetate           | 2.697          | 43   | 28582      | 18.176   | ug/l   | 99       |
| 13) Acrolein                 | 2.233          | 56   | 30003      | 95.190   | ug/l   | 100      |
| 14) Acrylonitrile            | 3.056          | 53   | 68921      | 89.730   | ug/l   | 99       |
| 15) Acetone                  | 2.374          | 58   | 22947      | 108.932  | ug/l   | 97       |
| 16) Carbon Disulfide         | 2.502          | 76   | 68739      | 17.896   | ug/l   | 100      |
| 17) Allyl chloride           | 2.654          | 41   | 45112      | 17.812   | ug/l   | 99       |
| 18) Methylene Chloride       | 2.782          | 84   | 26839      | 17.621   | ug/l   | 92       |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 24421      | 17.825   | ug/l   | 92       |
| 20) Diisopropyl ether        | 3.751          | 45   | 86878      | 17.850   | ug/l   | 90       |
| 21) 1,1-Dichloroethane       | 3.599          | 63   | 47892      | 17.693   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.471          | 96   | 29051      | 17.695   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.965          | 59   | 24746      | 92.286   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.105          | 73   | 78186      | 17.690   | ug/l   | 100      |
| 25) Chloroform               | 5.074          | 83   | 46912      | 17.943   | ug/l   | 98       |
| 26) Cyclohexane              | 5.458          | 56   | 44699      | 17.890   | ug/l # | 98       |
| 29) 1,1-Dichloropropene      | 5.678          | 75   | 32608      | 17.969   | ug/l   | 99       |
| 30) 2-Butanone               | 4.544          | 43   | 100841     | 96.206   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 37149      | 18.104   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 39458      | 17.945   | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.666          | 117  | 33551      | 18.080   | ug/l   | 98       |
| 34) Benzene                  | 6.025          | 78   | 102508     | 18.013   | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.910          | 41   | 20575      | 18.343   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 6.074          | 62   | 35686      | 18.316   | ug/l   | 99       |
| 37) Trichloroethene          | 7.117          | 130  | 23875      | 17.933   | ug/l   | 97       |
| 38) Methylcyclohexane        | 7.373          | 83   | 44760      | 18.370   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.421          | 63   | 24627      | 17.406   | ug/l   | 98       |
| 40) Dibromomethane           | 7.574          | 93   | 18285      | 18.010   | ug/l   | 99       |
| 41) Bromodichloromethane     | 7.812          | 83   | 35606      | 17.645   | ug/l   | 98       |
| 42) Vinyl Acetate            | 3.709          | 43   | 365963     | 89.973   | ug/l   | 100      |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.702  | 43   | 33559    | 17.072  | ug/l  | 100      |
| 44) Isopropyl Acetate         | 6.330  | 43   | 58216    | 17.994  | ug/l  | 98       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 12655    | 376.282 | ug/l  | 99       |
| 46) Methyl methacrylate       | 7.684  | 41   | 29063    | 18.320  | ug/l  | 98       |
| 47) n-amyl Acetate            | 10.842 | 43   | 50309    | 17.920  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 33010    | 16.972  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 38512    | 17.491  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 24435    | 18.451  | ug/l  | 96       |
| 51) Ethyl methacrylate        | 9.110  | 69   | 37245    | 17.882  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 41224    | 17.765  | ug/l  | 97       |
| 53) Dibromochloromethane      | 9.519  | 129  | 25807    | 17.620  | ug/l  | 96       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 23689    | 17.616  | ug/l  | 96       |
| 55) 2-Chloroethyl vinyl ether | 8.232  | 63   | 91907    | 85.929  | ug/l  | 100      |
| 56) Bromoform                 | 10.799 | 173  | 15981    | 17.412  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 192103   | 93.175  | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 142320   | 95.501  | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 19987    | 17.908  | ug/l  | 95       |
| 62) Toluene                   | 8.714  | 91   | 107324   | 17.876  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.073 | 112  | 66754    | 17.942  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 21314    | 17.362  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 119085   | 18.117  | ug/l  | 95       |
| 67) m/p-Xylenes               | 10.299 | 106  | 88668    | 36.205  | ug/l  | 98       |
| 68) o-Xylene                  | 10.634 | 106  | 44070    | 18.340  | ug/l  | 97       |
| 69) Styrene                   | 10.653 | 104  | 71782    | 17.886  | ug/l  | 98       |
| 70) Isopropylbenzene          | 10.957 | 105  | 112344   | 18.117  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 37415    | 18.349  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 30477m   | 18.172  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 26006    | 18.218  | ug/l  | 99       |
| 74) n-propylbenzene           | 11.299 | 91   | 134814   | 18.269  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 80948    | 18.145  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.445 | 105  | 95320    | 18.633  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 9008     | 15.964  | ug/l  | 92       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 90166    | 18.131  | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 94943    | 18.420  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 94408    | 18.423  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.884 | 105  | 119426   | 18.461  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 97575    | 18.616  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 48430    | 18.234  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 48160    | 18.390  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 87176    | 18.213  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 16000    | 17.309  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.329 | 146  | 48245    | 18.513  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 7064     | 17.893  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 28630    | 18.126  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 12062    | 18.726  | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 101756   | 18.271  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 28151    | 17.312  | ug/l  | 97       |

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

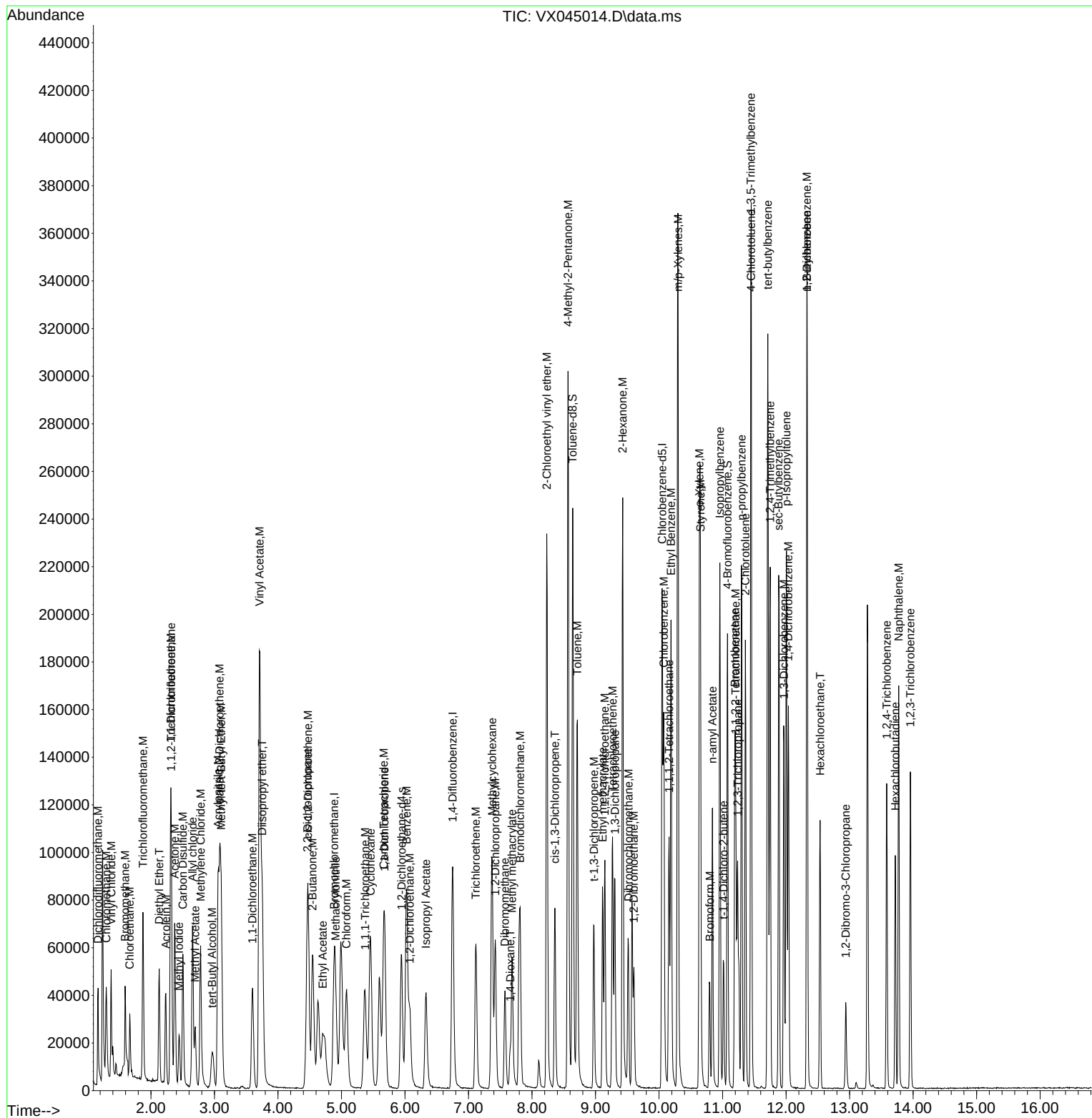
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 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

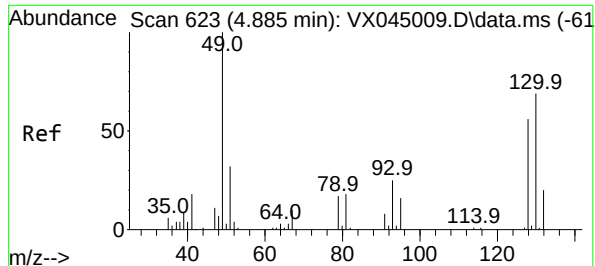
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

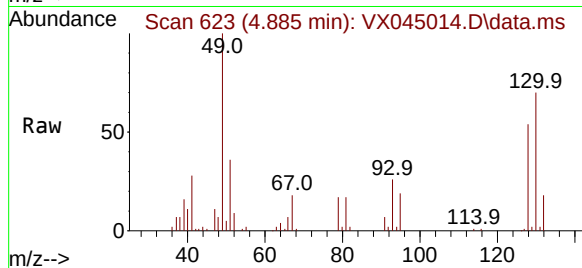
Quant Time: Feb 22 01:12:33 2025  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.885 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

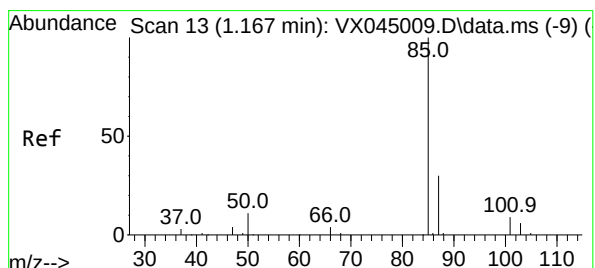
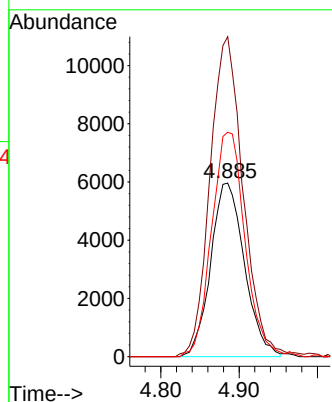
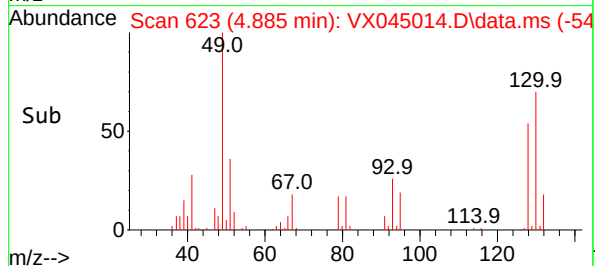
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125



Tgt Ion:128 Resp: 17820  
Ion Ratio Lower Upper  
128 100  
49 181.1 0.0 449.7  
130 128.1 0.0 312.7

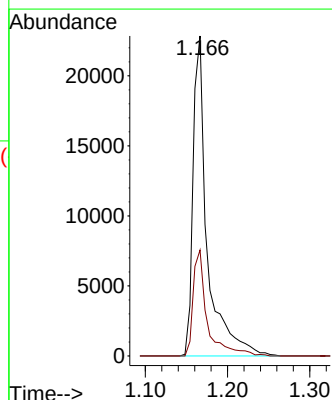
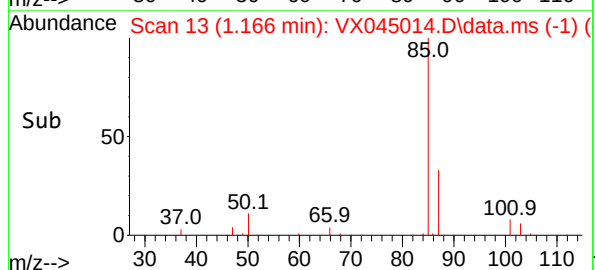
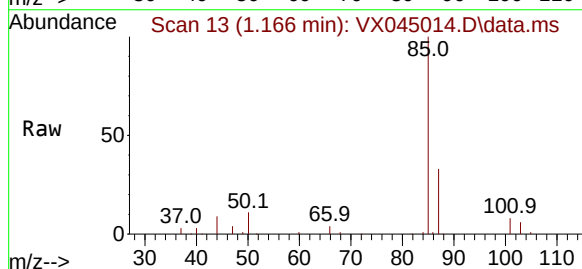
Manual Integrations  
APPROVED

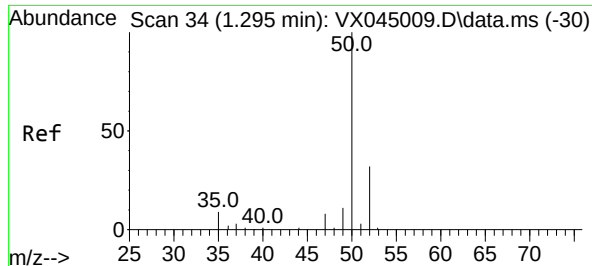
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#2  
Dichlorodifluoromethane  
Concen: 18.226 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 85 Resp: 27388  
Ion Ratio Lower Upper  
85 100  
87 33.1 15.1 45.3





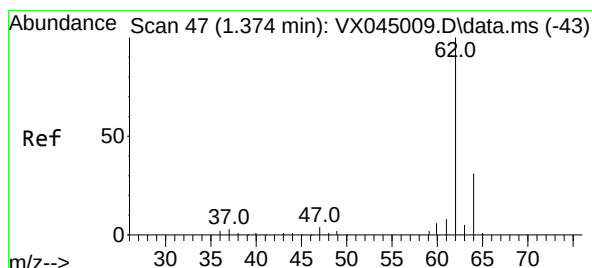
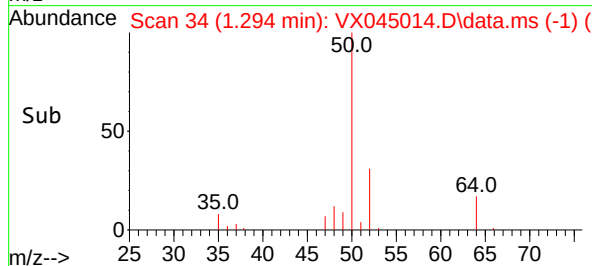
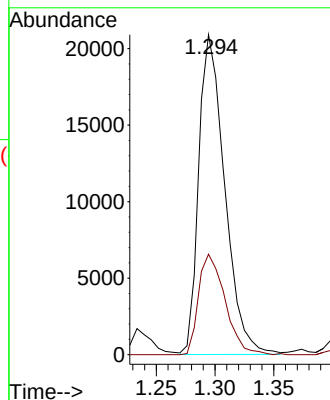
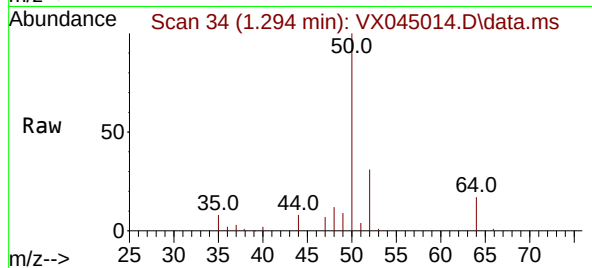
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Chloromethane  
Concen: 17.873 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion: 50 Resp: 32169  
Ion Ratio Lower Upper  
50 100  
52 31.6 25.7 38.5

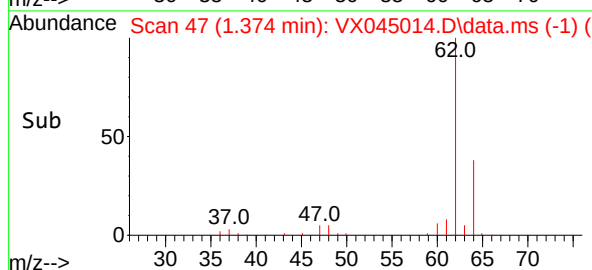
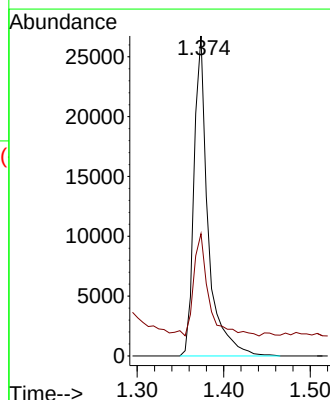
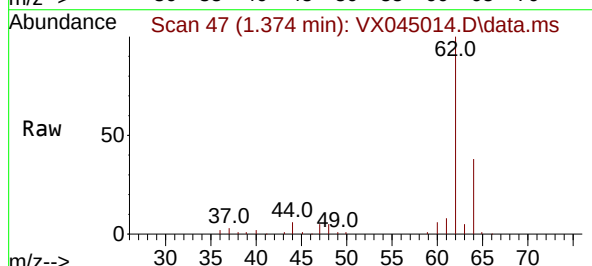
Manual Integrations  
APPROVED

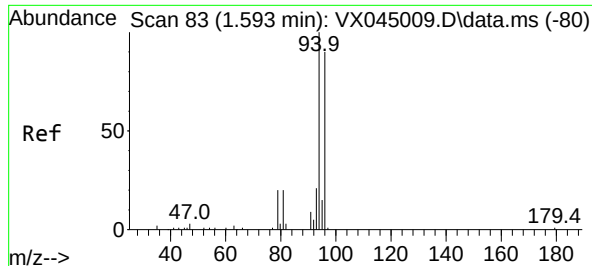
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#4  
Vinyl Chloride  
Concen: 17.401 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

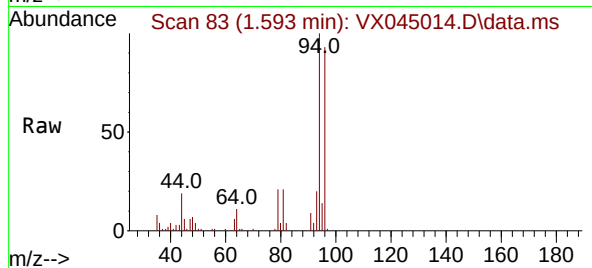
Tgt Ion: 62 Resp: 30221  
Ion Ratio Lower Upper  
62 100  
64 31.7 25.1 37.7





#5  
Bromomethane  
Concen: 19.506 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

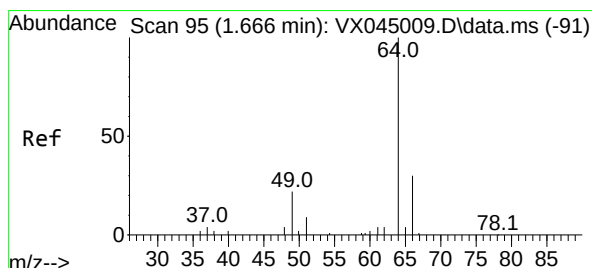
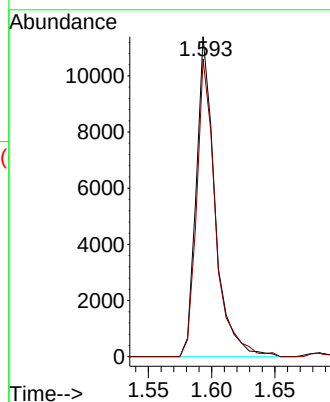
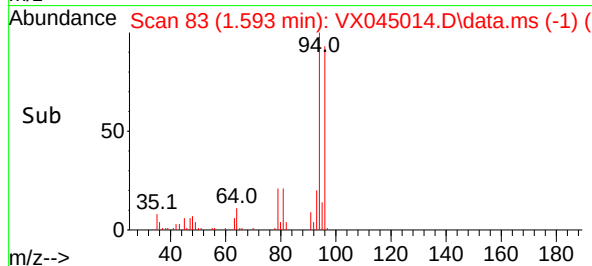
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion: 94 Resp: 11792  
Ion Ratio Lower Upper  
94 100  
96 93.1 72.2 108.4

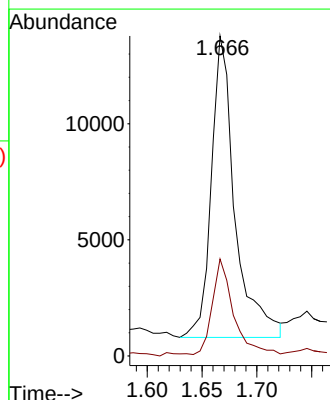
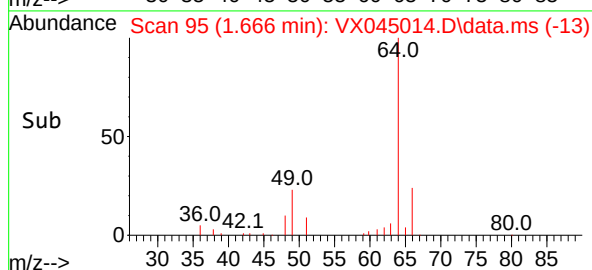
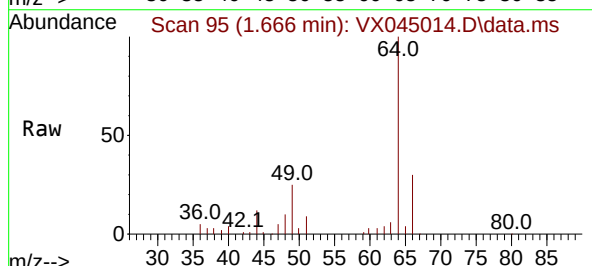
Manual Integrations  
APPROVED

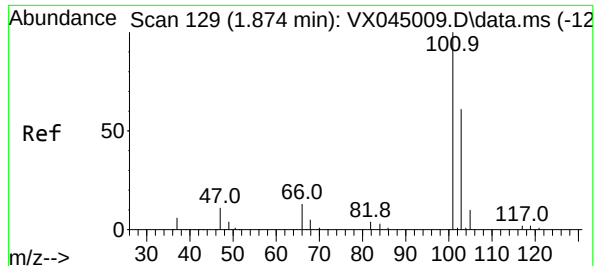
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#6  
Chloroethane  
Concen: 20.662 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

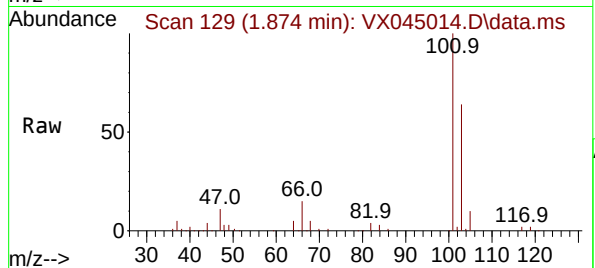
Tgt Ion: 64 Resp: 19435  
Ion Ratio Lower Upper  
64 100  
66 31.5 23.7 35.5





#7  
Trichlorofluoromethane  
Concen: 17.793 ug/l  
RT: 1.874 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

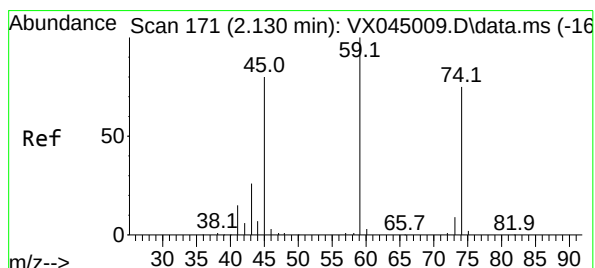
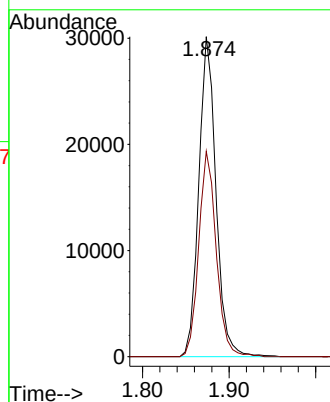
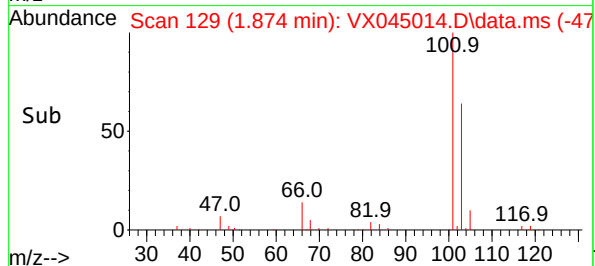
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:101 Resp: 41534  
Ion Ratio Lower Upper  
101 100  
103 64.2 48.8 73.2

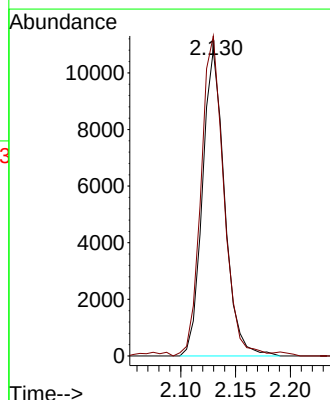
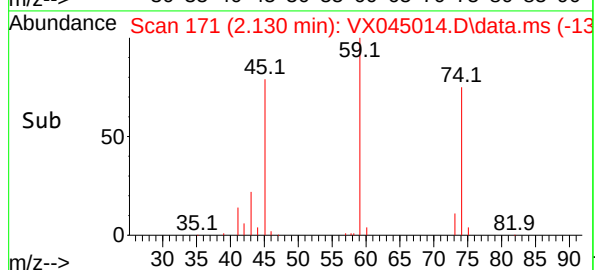
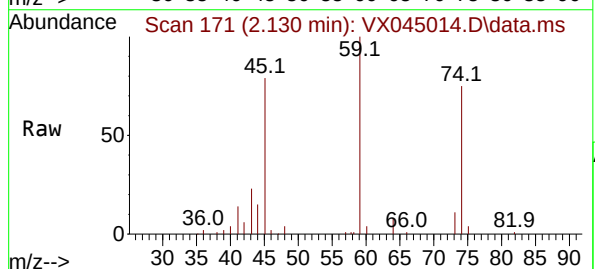
Manual Integrations  
APPROVED

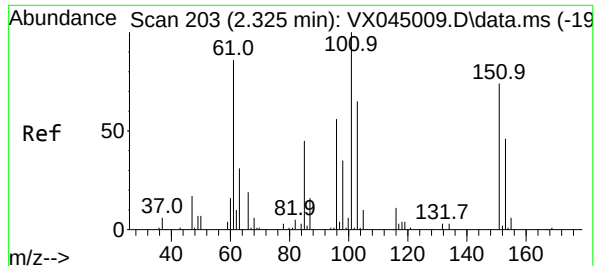
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#8  
Diethyl Ether  
Concen: 17.214 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 74 Resp: 15203  
Ion Ratio Lower Upper  
74 100  
45 107.4 20.8 186.8





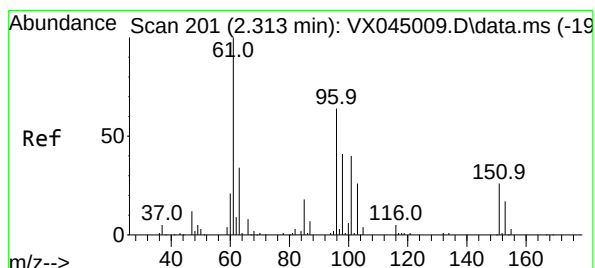
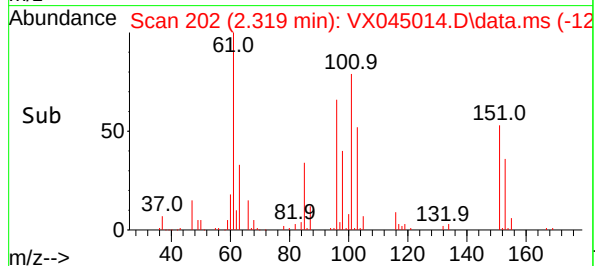
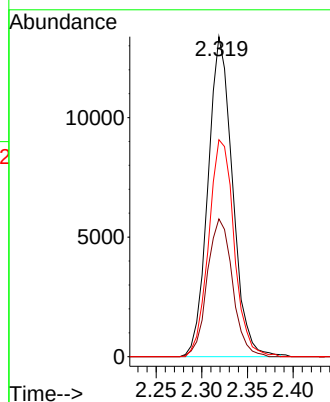
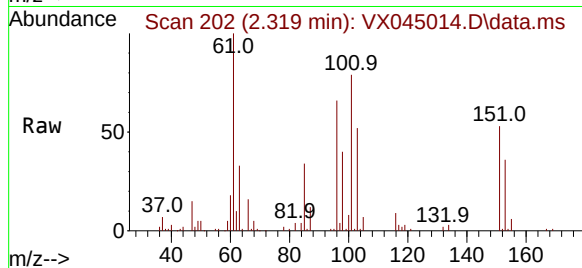
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.055 ug/l  
RT: 2.319 min Scan# 203  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion:101 Resp: 2503  
Ion Ratio Lower Upper  
101 100  
85 44.1 0.0 90.6  
151 70.2 0.0 147.6

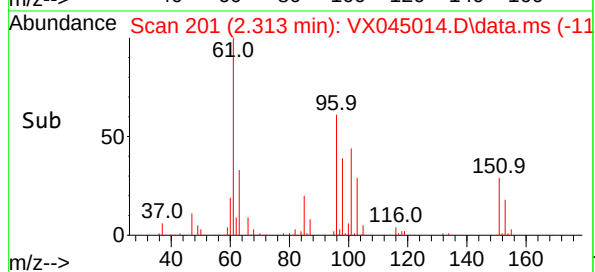
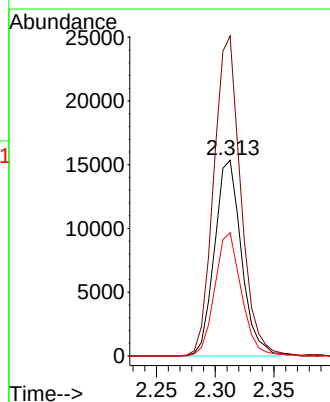
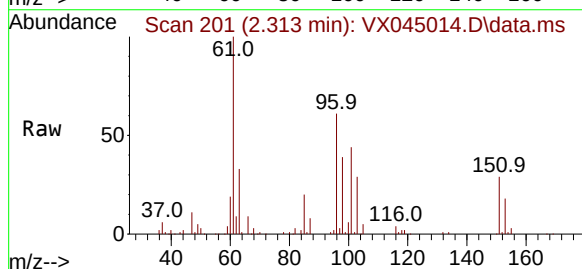
Manual Integrations  
APPROVED

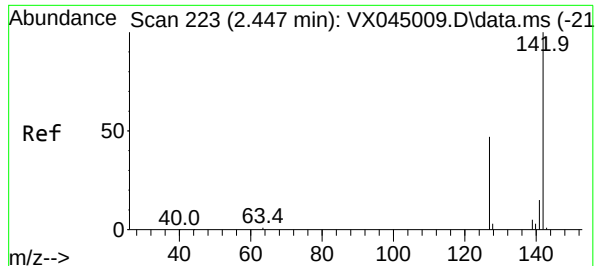
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#10  
1,1-Dichloroethene  
Concen: 18.088 ug/l  
RT: 2.313 min Scan# 201  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 96 Resp: 24494  
Ion Ratio Lower Upper  
96 100  
61 163.5 124.2 186.2  
98 63.0 51.1 76.7





#11

Methyl Iodide

Concen: 15.827 ug/l

RT: 2.441 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045014.D

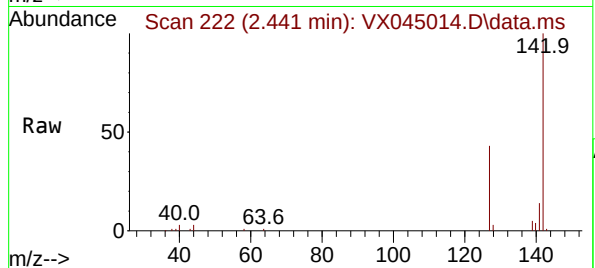
Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125



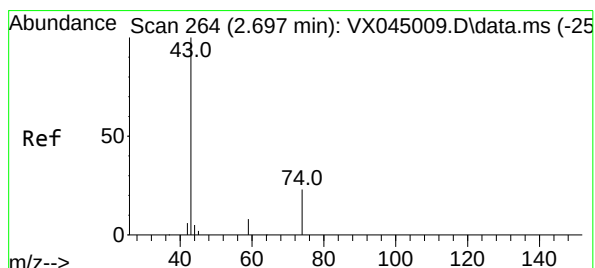
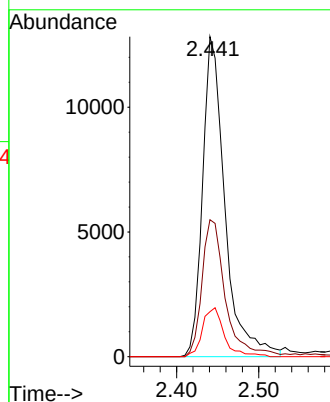
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2425  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 42.9  | 23.3  | 69.9  |
| 141      | 14.2  | 7.5   | 22.6  |

Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#12

Methyl Acetate

Concen: 18.176 ug/l

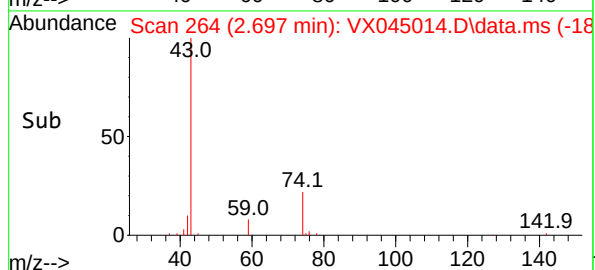
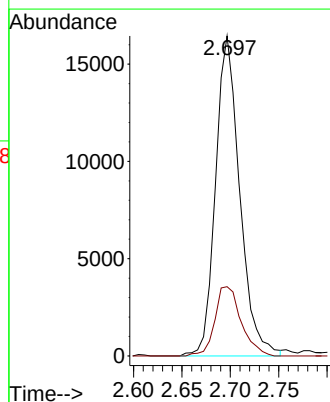
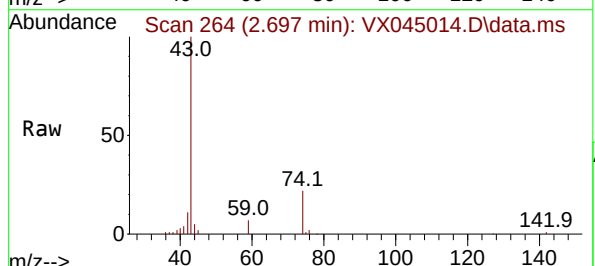
RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

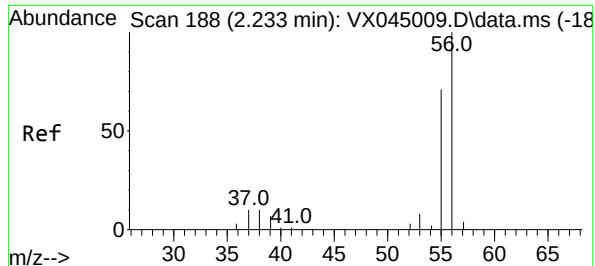
Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 28582 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 74       | 21.9  | 17.9  | 26.9  |







#13

Acrolein

Concen: 95.190 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 56 Resp: 3000

Ion Ratio Lower Upper

56 100

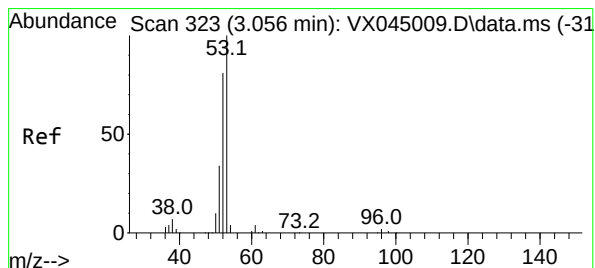
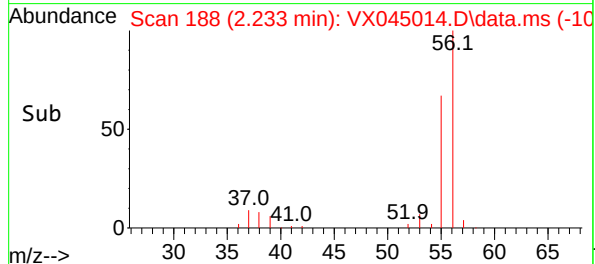
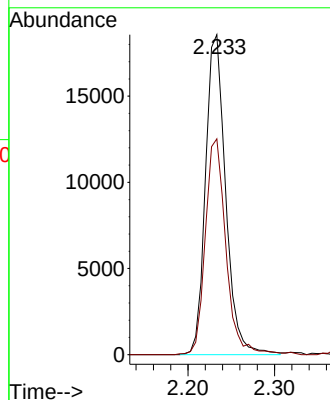
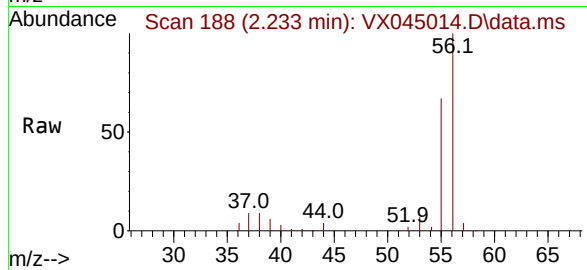
55 69.0 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#14

Acrylonitrile

Concen: 89.730 ug/l

RT: 3.056 min Scan# 323

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

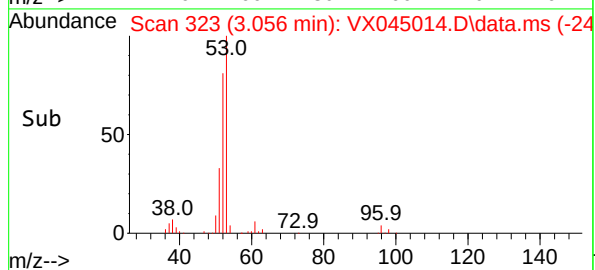
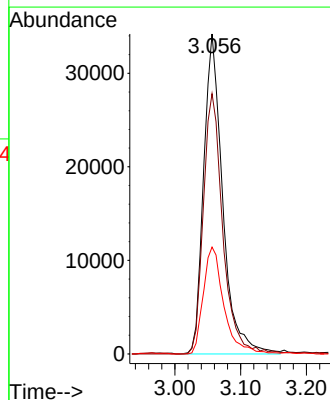
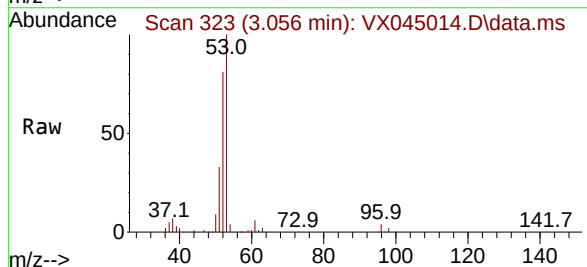
Tgt Ion: 53 Resp: 68921

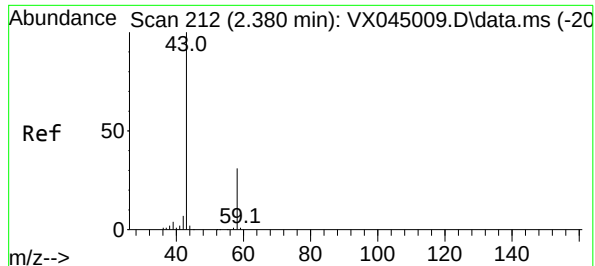
Ion Ratio Lower Upper

53 100

52 82.6 40.9 122.8

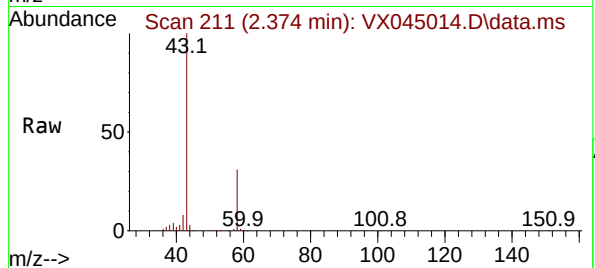
51 35.7 18.0 54.0





#15  
Acetone  
Concen: 108.932 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

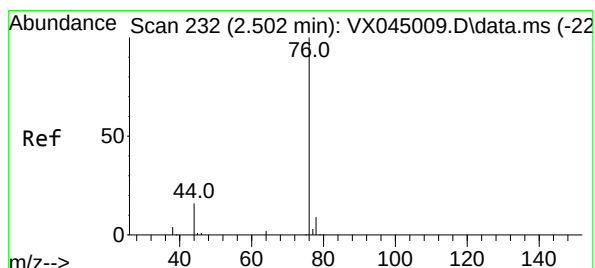
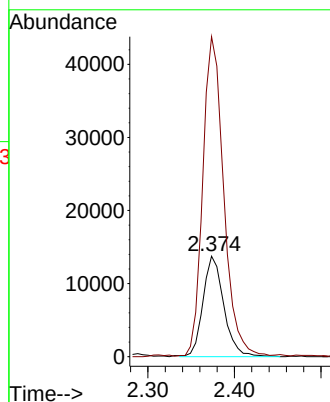
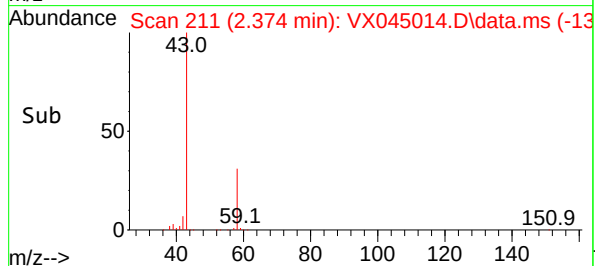
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion: 58 Resp: 2294  
Ion Ratio Lower Upper  
58 100  
43 317.3 258.6 388.0

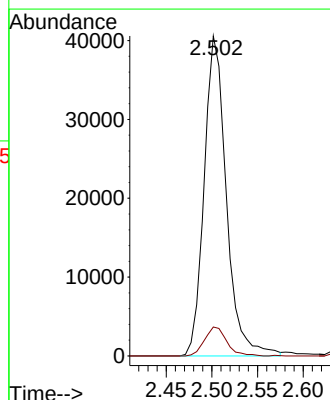
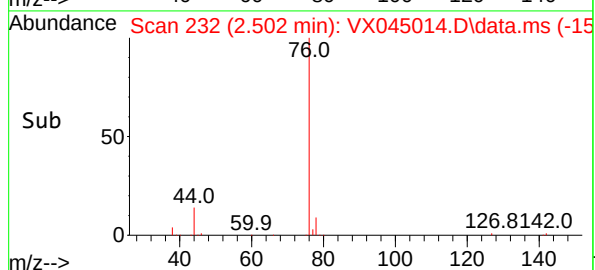
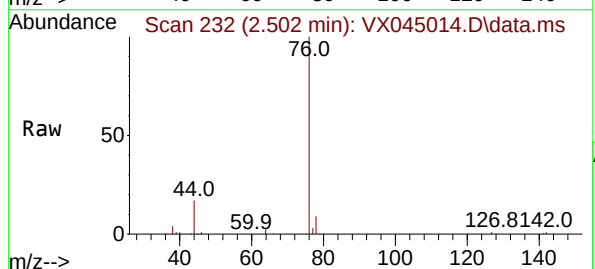
Manual Integrations  
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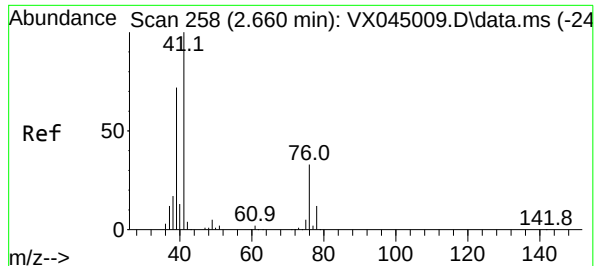
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#16  
Carbon Disulfide  
Concen: 17.896 ug/l  
RT: 2.502 min Scan# 232  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 76 Resp: 68739  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.3 10.9





#17

Allyl chloride

Concen: 17.812 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX022125

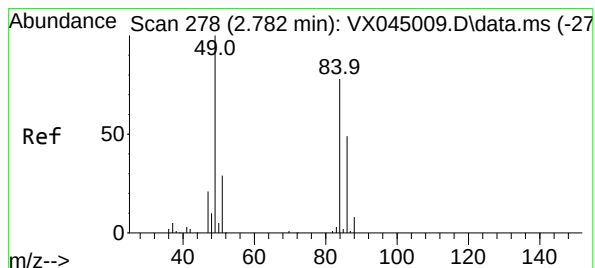
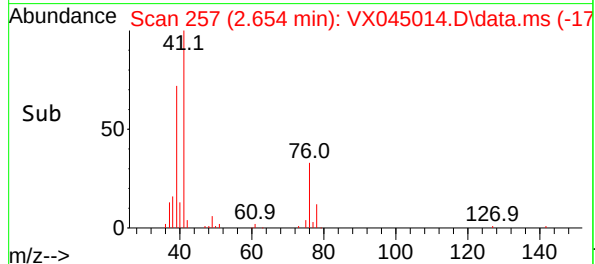
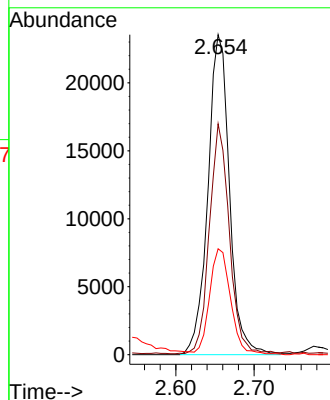
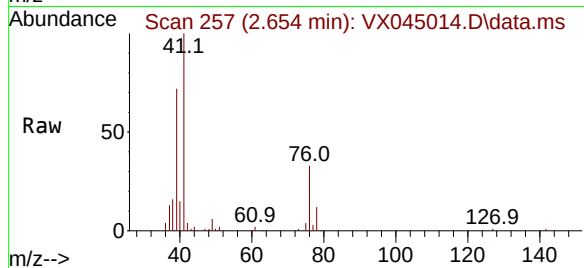
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 4511  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 71.7  | 36.2  | 108.6 |
| 76       | 32.9  | 17.2  | 51.5  |

## Manual Integrations

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Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#18

Methylene Chloride

Concen: 17.621 ug/l

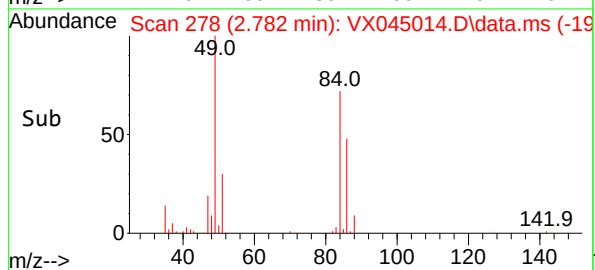
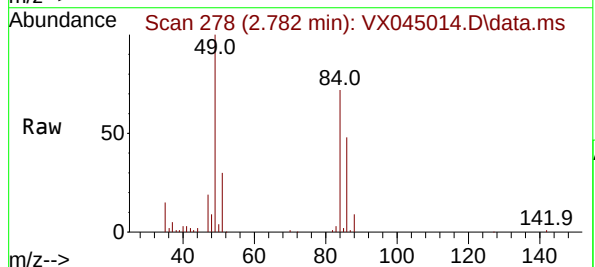
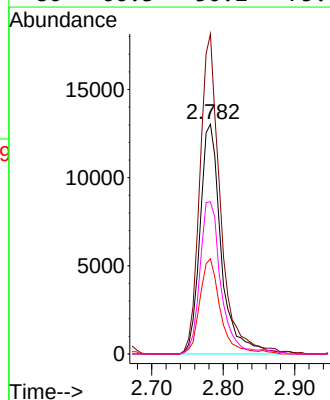
RT: 2.782 min Scan# 278

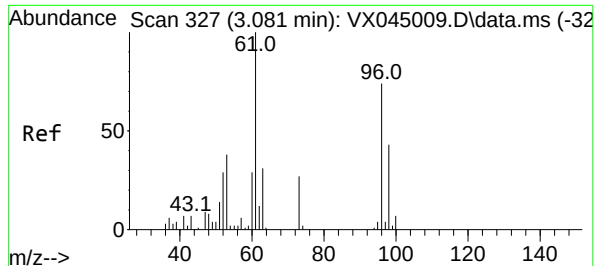
Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 26839 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 139.3 | 102.8 | 154.2 |
| 51       | 41.4  | 30.1  | 45.1  |
| 86       | 66.3  | 50.2  | 75.4  |





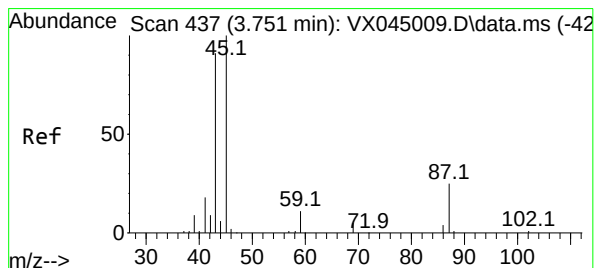
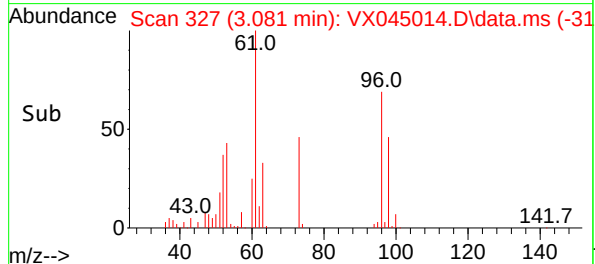
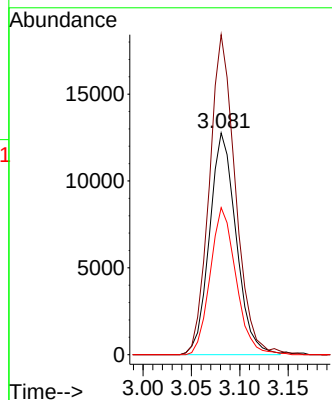
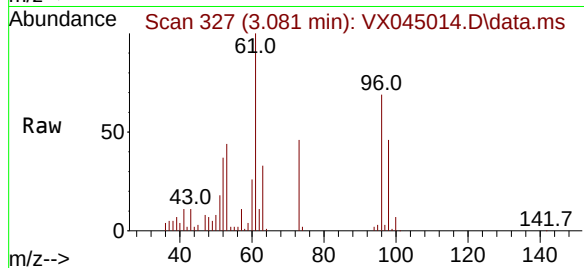
#19  
trans-1,2-Dichloroethene  
Concen: 17.825 ug/l  
RT: 3.081 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125

Tgt Ion: 96 Resp: 2442  
Ion Ratio Lower Upper  
96 100  
61 144.3 108.6 163.0  
98 66.3 46.5 69.7

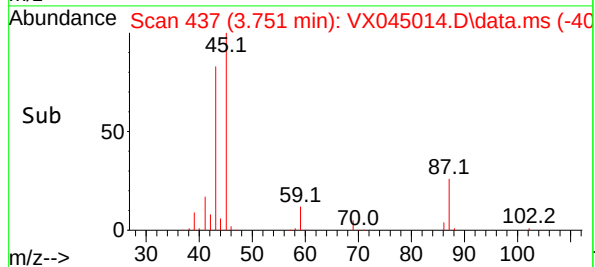
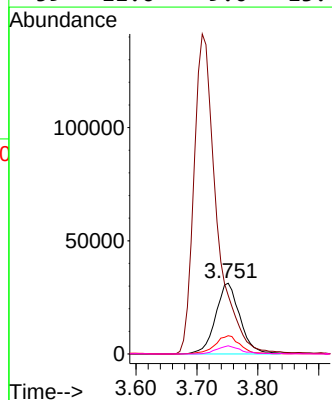
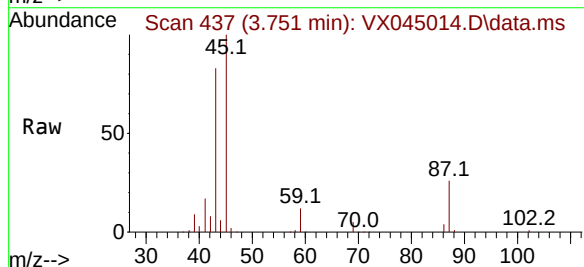
Manual Integrations  
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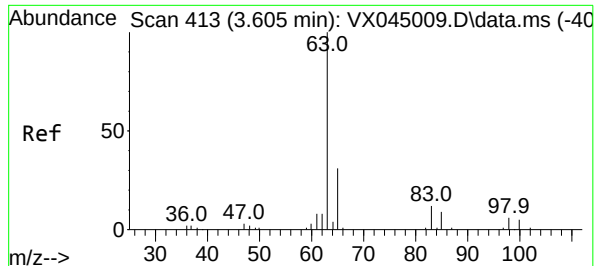
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#20  
Diisopropyl ether  
Concen: 17.850 ug/l  
RT: 3.751 min Scan# 437  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 45 Resp: 86878  
Ion Ratio Lower Upper  
45 100  
43 79.8 74.4 111.6  
87 25.8 19.8 29.8  
59 11.6 9.0 13.4





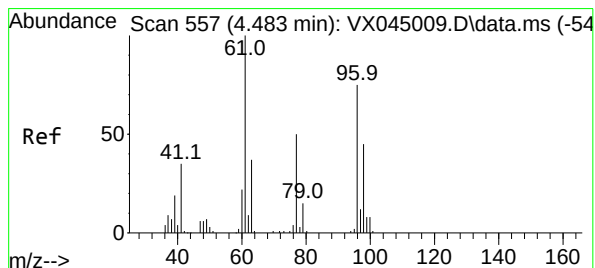
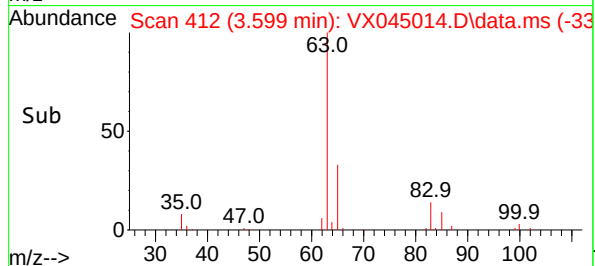
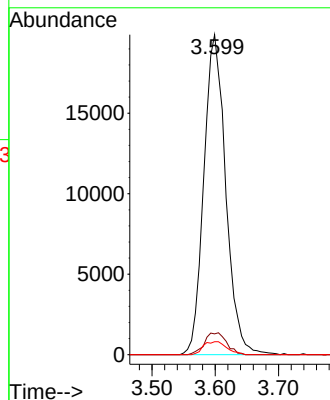
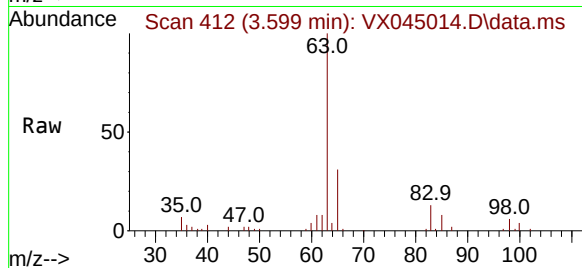
#21  
1,1-Dichloroethane  
Concen: 17.693 ug/l  
RT: 3.599 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125

Tgt Ion: 63 Resp: 47892  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.3 9.8  
100 4.0 2.4 7.1

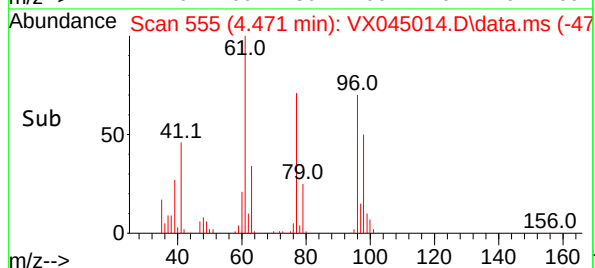
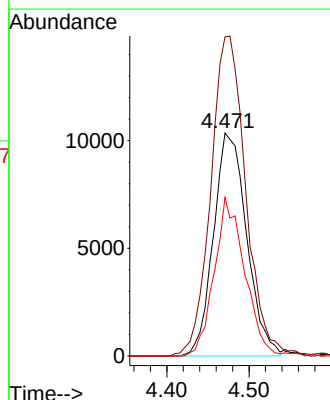
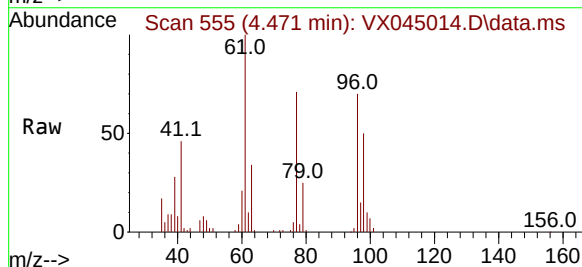
Manual Integrations  
APPROVED

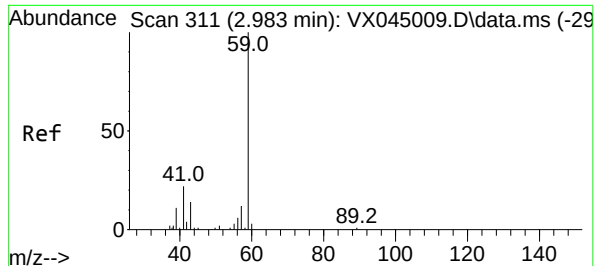
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#22  
cis-1,2-Dichloroethene  
Concen: 17.695 ug/l  
RT: 4.471 min Scan# 555  
Delta R.T. -0.012 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 96 Resp: 29051  
Ion Ratio Lower Upper  
96 100  
61 149.8 118.9 178.3  
98 64.7 50.7 76.1





#23

tert-Butyl Alcohol

Concen: 92.286 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.018 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 59 Resp: 24740

Ion Ratio Lower Upper

59 100

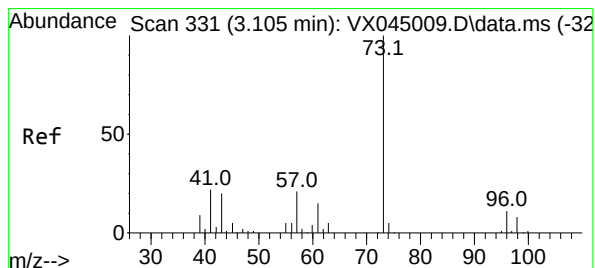
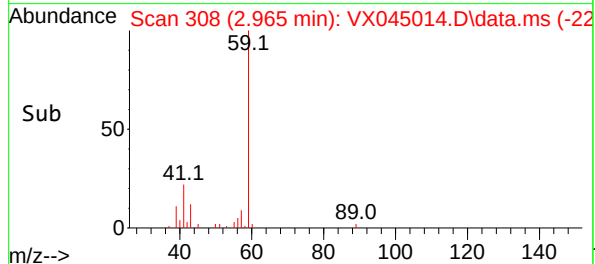
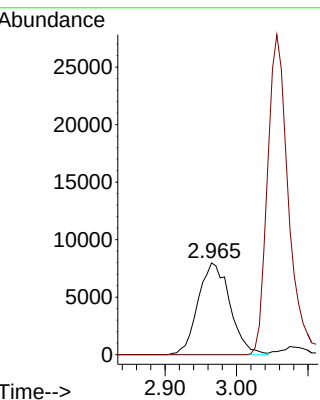
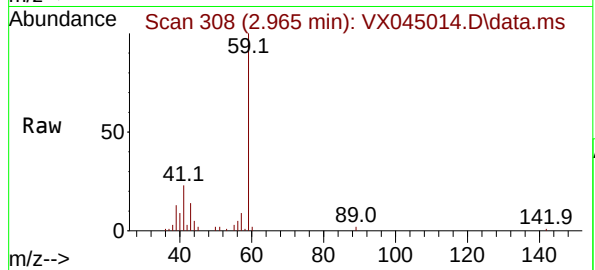
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#24

Methyl tert-Butyl Ether

Concen: 17.690 ug/l

RT: 3.105 min Scan# 331

Delta R.T. -0.000 min

Lab File: VX045014.D

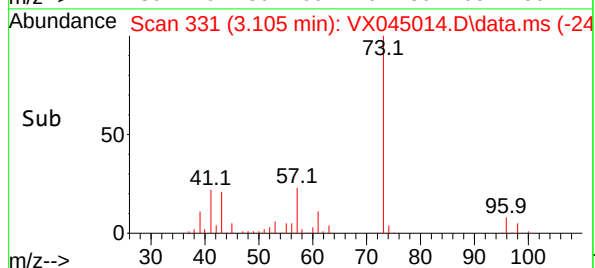
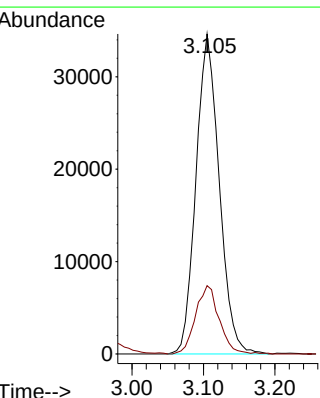
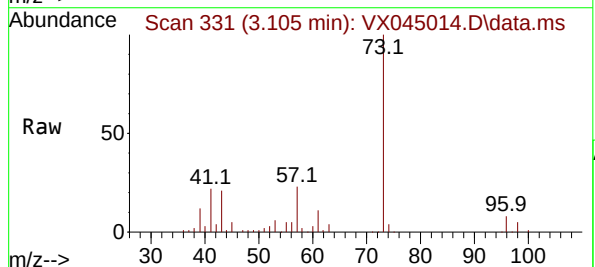
Acq: 21 Feb 2025 13:09

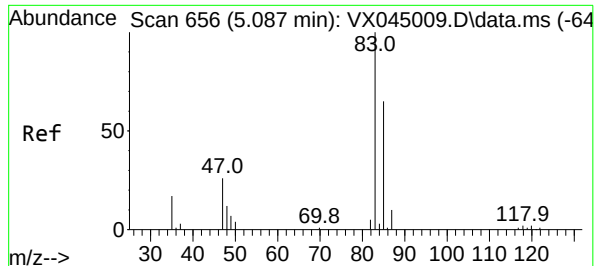
Tgt Ion: 73 Resp: 78186

Ion Ratio Lower Upper

73 100

43 21.5 17.4 26.0





#25

Chloroform

Concen: 17.943 ug/l

RT: 5.074 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX022125

Tgt Ion: 83 Resp: 4691

Ion Ratio Lower Upper

83 100

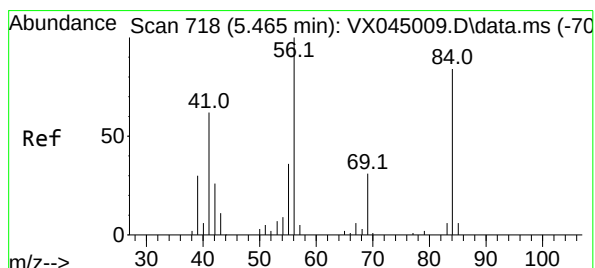
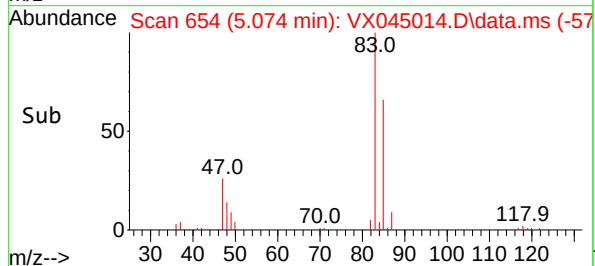
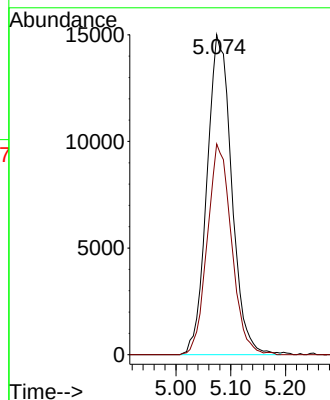
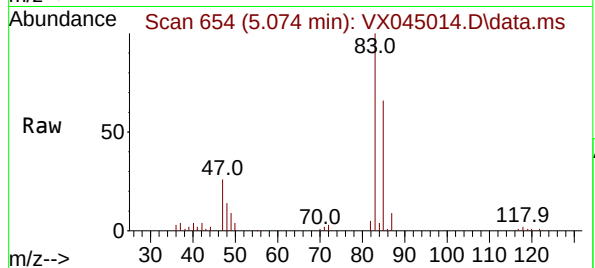
85 65.8 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#26

Cyclohexane

Concen: 17.890 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

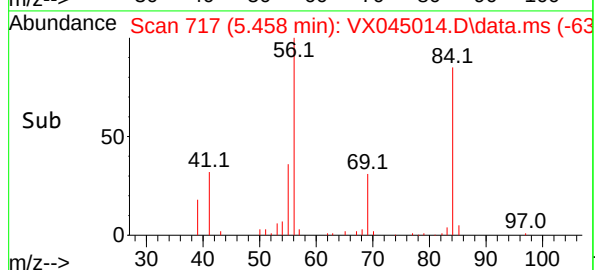
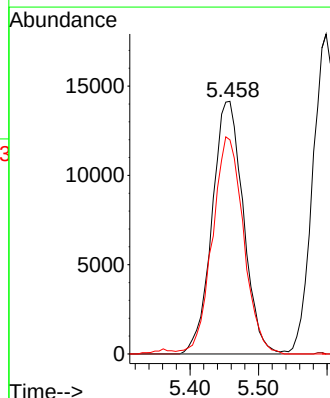
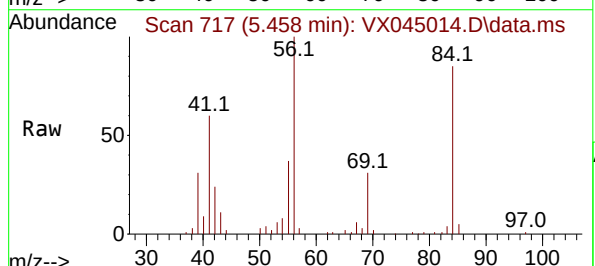
Tgt Ion: 56 Resp: 44699

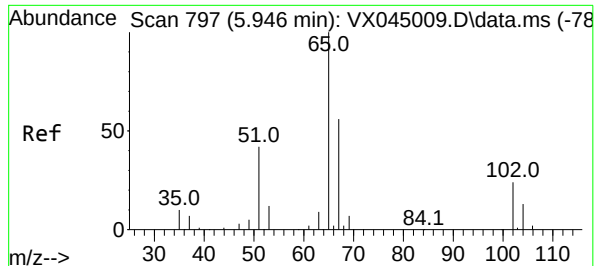
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 85.8 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 29.736 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX022125

Tgt Ion: 65 Resp: 5148

Ion Ratio Lower Upper

65 100

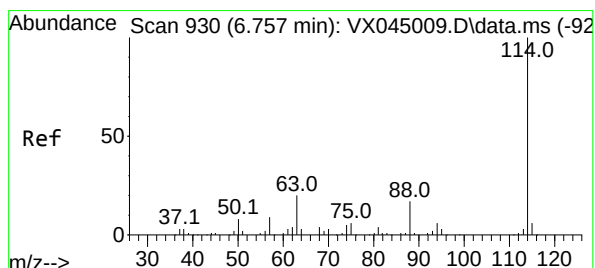
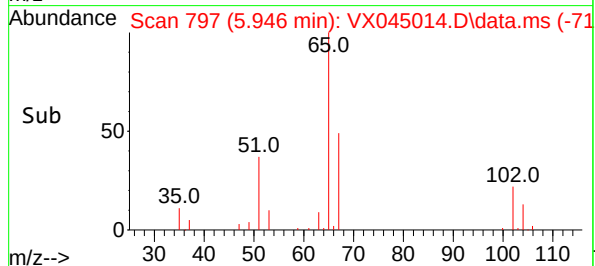
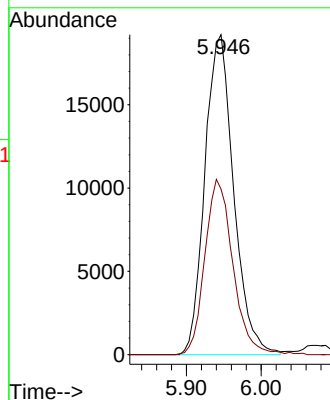
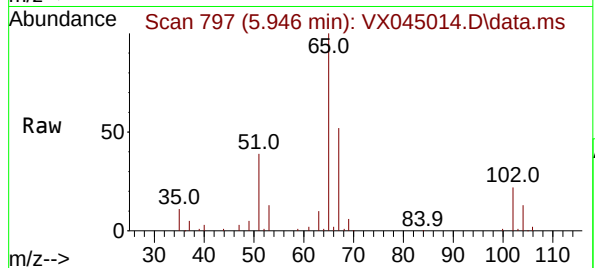
67 53.2 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

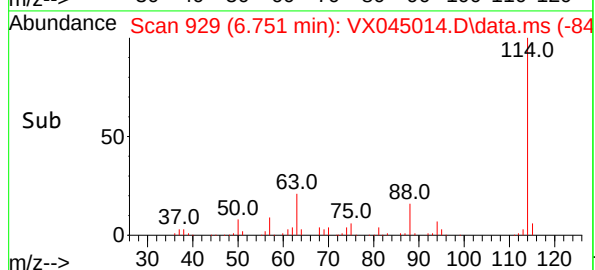
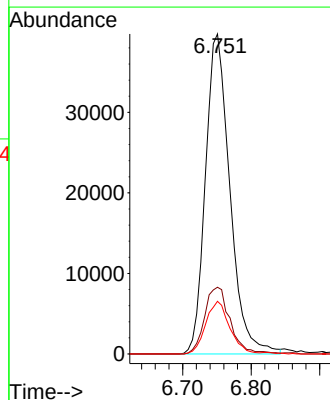
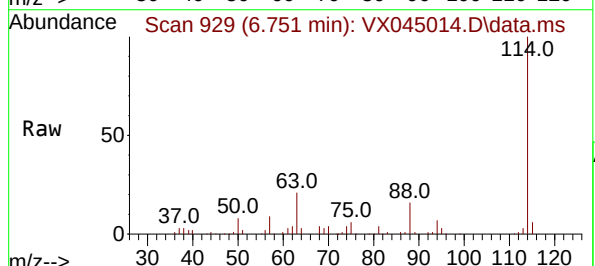
Tgt Ion:114 Resp: 98652

Ion Ratio Lower Upper

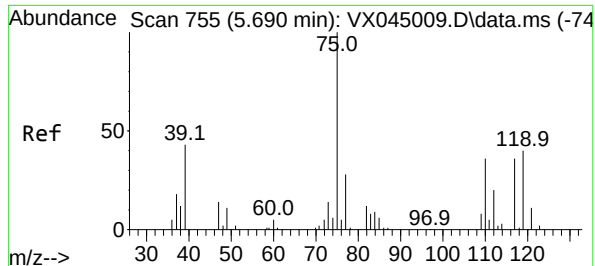
114 100

63 21.3 16.8 25.2

88 16.1 12.7 19.1







#29

1,1-Dichloropropene

Concen: 17.969 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.012 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 75 Resp: 32608

Ion Ratio Lower Upper

75 100

110 35.2 0.0 69.2

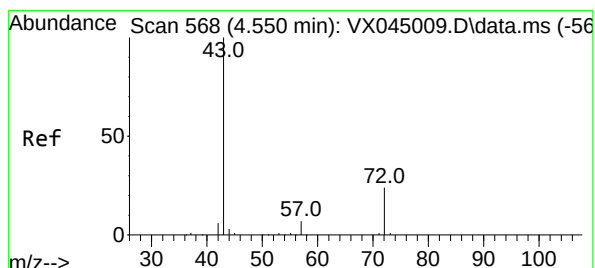
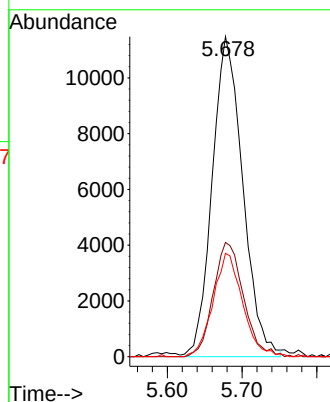
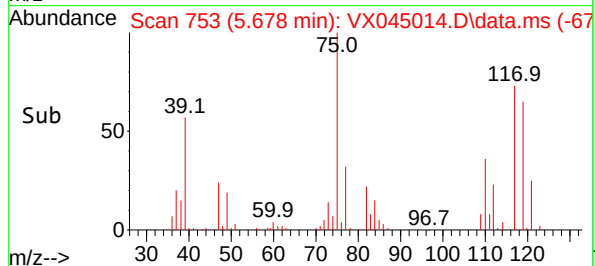
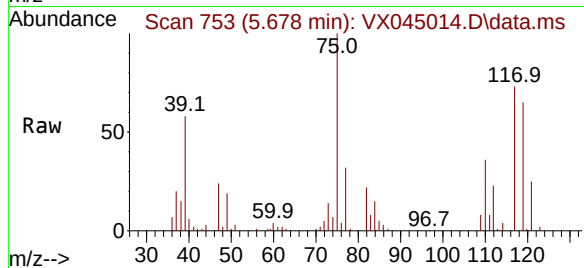
77 31.1 0.0 61.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#30

2-Butanone

Concen: 96.206 ug/l

RT: 4.544 min Scan# 567

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

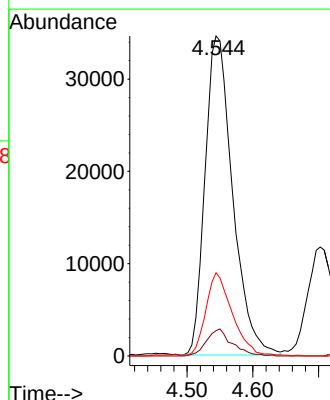
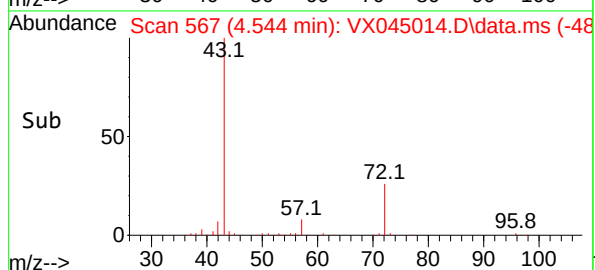
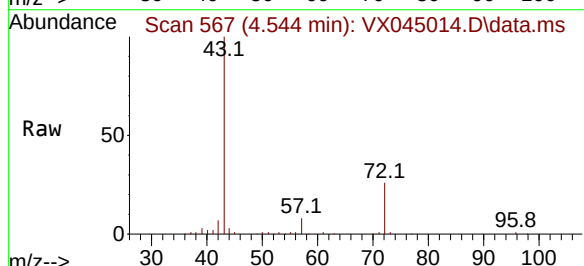
Tgt Ion: 43 Resp: 100841

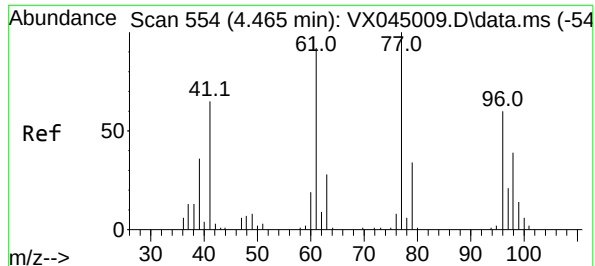
Ion Ratio Lower Upper

43 100

57 7.8 6.2 9.2

72 24.4 20.2 30.2





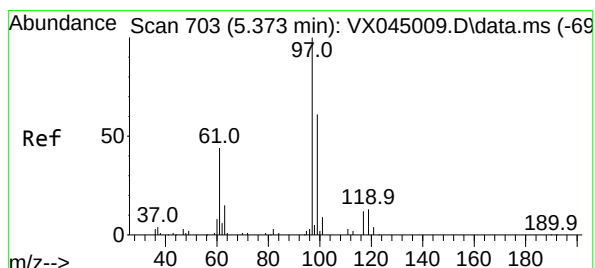
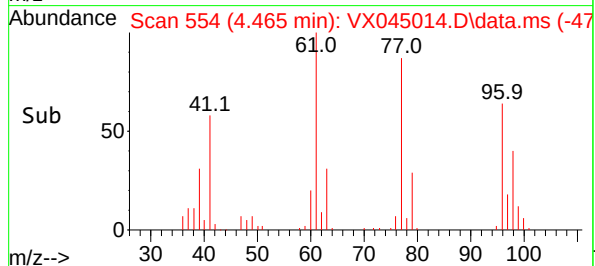
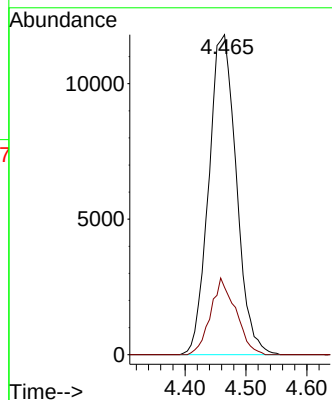
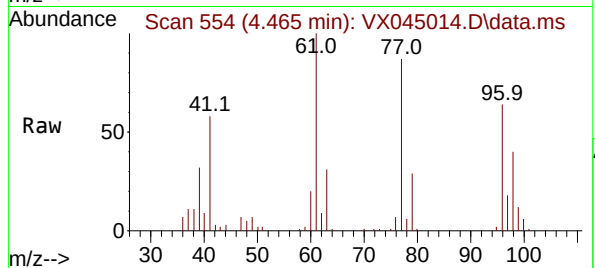
#31  
2,2-Dichloropropane  
Concen: 18.104 ug/l  
RT: 4.465 min Scan# 554  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion: 77 Resp: 37149  
Ion Ratio Lower Upper  
77 100  
97 21.9 18.0 27.0

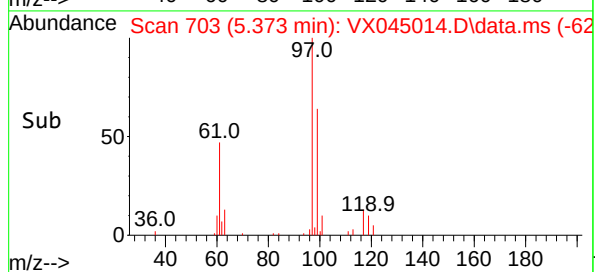
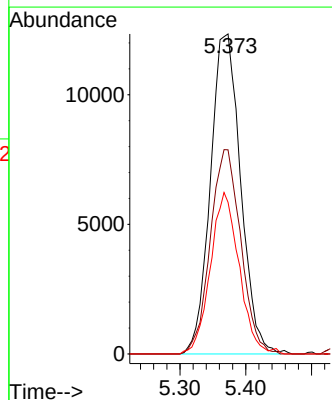
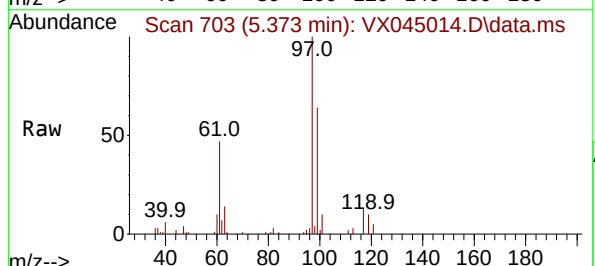
Manual Integrations  
APPROVED

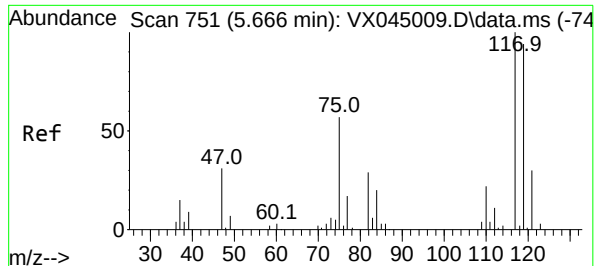
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#32  
1,1,1-Trichloroethane  
Concen: 17.945 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

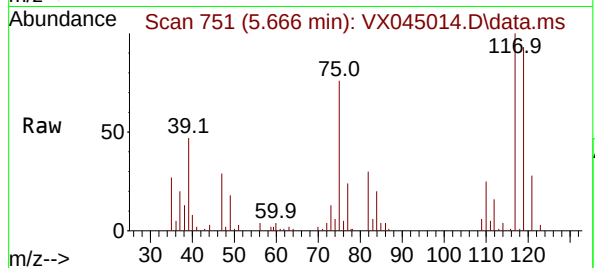
Tgt Ion: 97 Resp: 39458  
Ion Ratio Lower Upper  
97 100  
99 64.4 52.2 78.2  
61 47.7 38.5 57.7





#33  
Carbon Tetrachloride  
Concen: 18.080 ug/l  
RT: 5.666 min Scan# 751  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

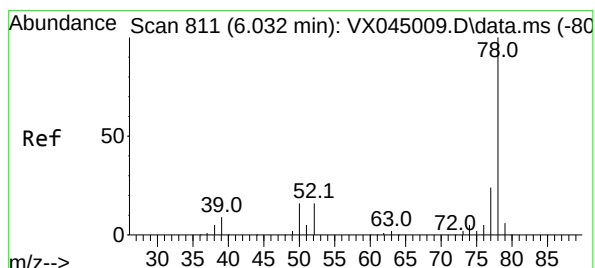
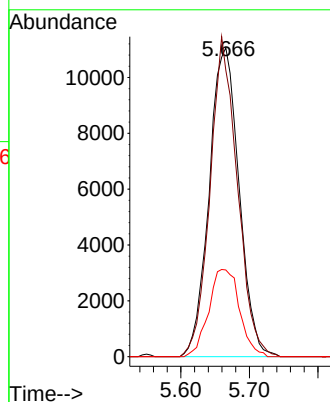
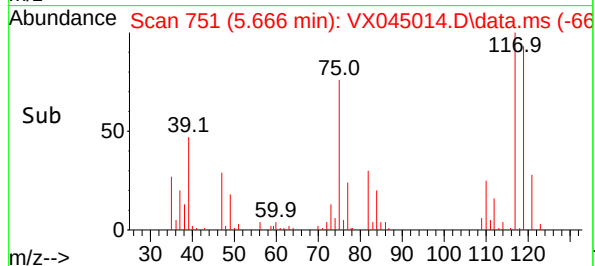
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:117 Resp: 3355  
Ion Ratio Lower Upper  
117 100  
119 92.8 75.1 112.7  
121 28.1 23.9 35.9

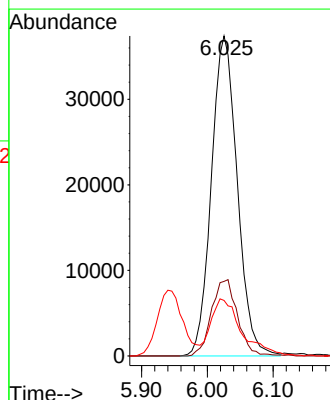
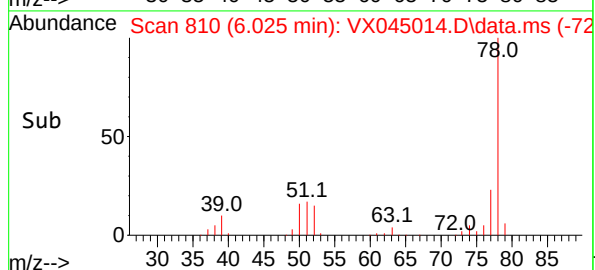
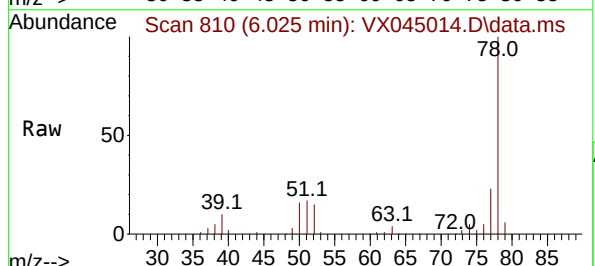
Manual Integrations  
APPROVED

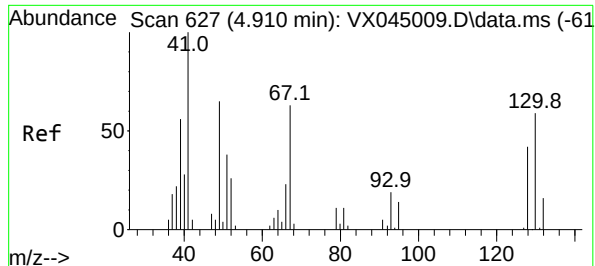
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#34  
Benzene  
Concen: 18.013 ug/l  
RT: 6.025 min Scan# 810  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 78 Resp: 102508  
Ion Ratio Lower Upper  
78 100  
77 23.3 19.6 29.4  
51 16.4 13.8 20.6





#35

Methacrylonitrile

Concen: 18.343 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 41 Resp: 2057

Ion Ratio Lower Upper

41 100

39 54.4 27.8 83.4

67 60.2 31.5 94.5

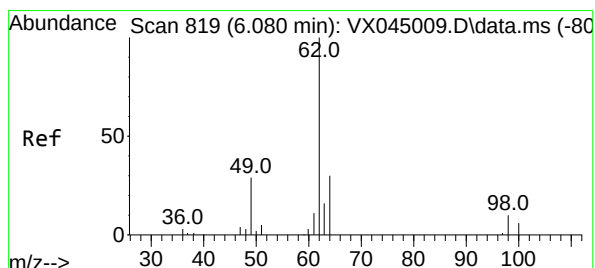
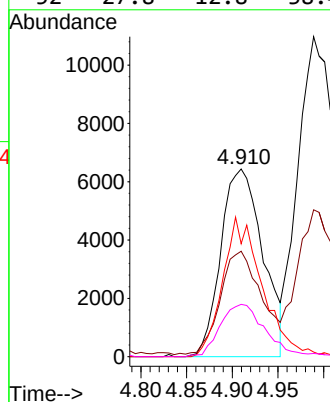
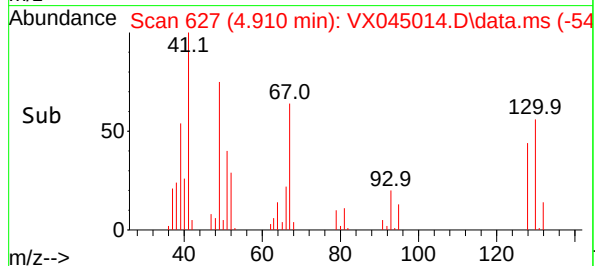
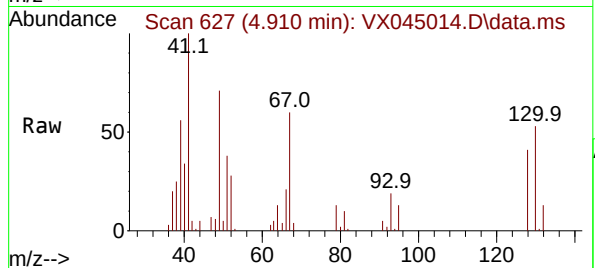
52 27.8 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#36

1,2-Dichloroethane

Concen: 18.316 ug/l

RT: 6.074 min Scan# 818

Delta R.T. -0.006 min

Lab File: VX045014.D

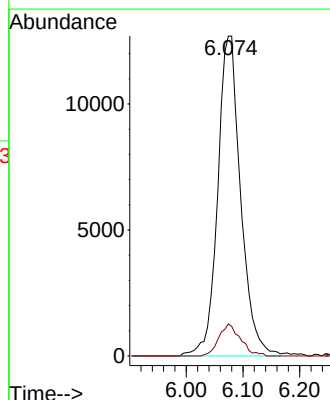
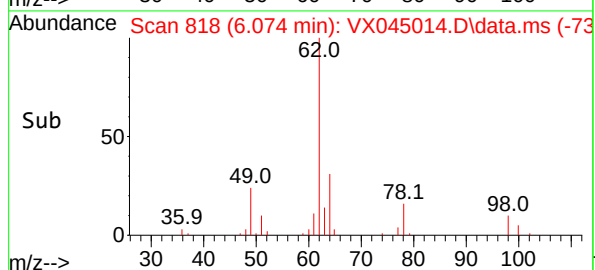
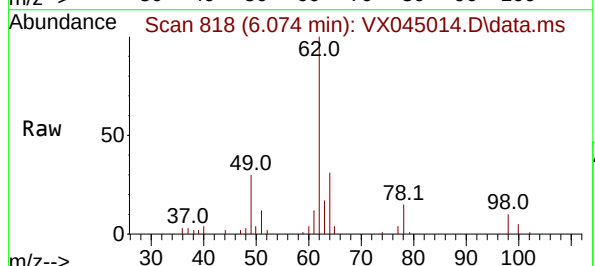
Acq: 21 Feb 2025 13:09

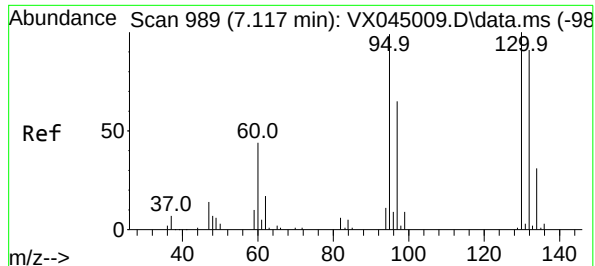
Tgt Ion: 62 Resp: 35686

Ion Ratio Lower Upper

62 100

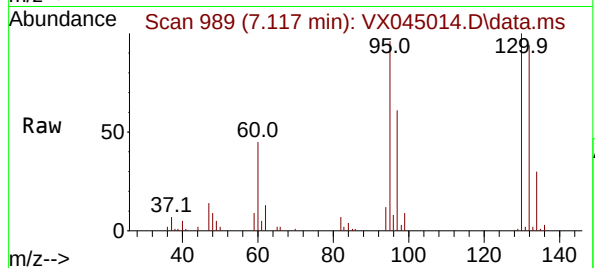
98 9.4 7.9 11.9





#37  
Trichloroethene  
Concen: 17.933 ug/l  
RT: 7.117 min Scan# 989  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

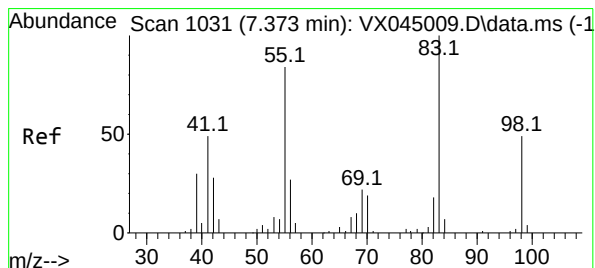
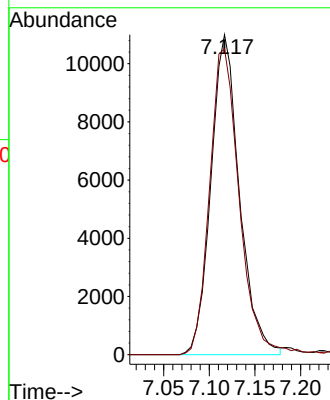
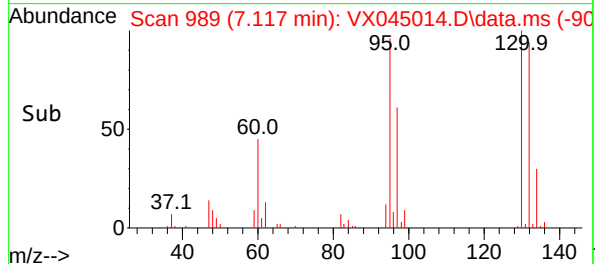
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:130 Resp: 23875  
Ion Ratio Lower Upper  
130 100  
95 95.6 79.0 118.4

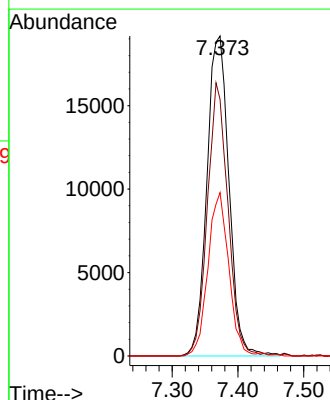
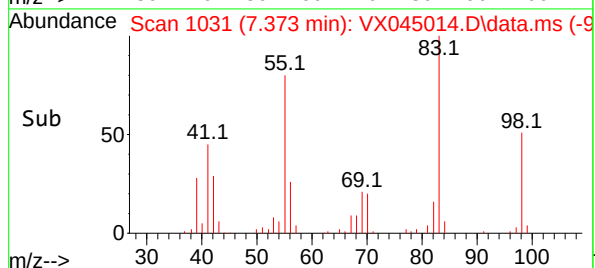
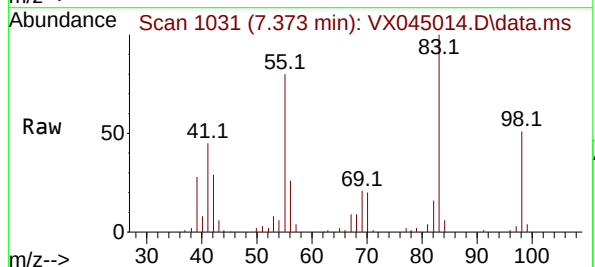
Manual Integrations  
APPROVED

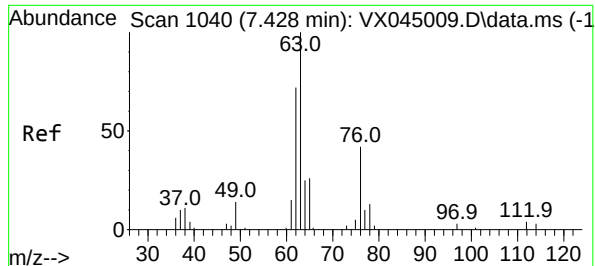
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#38  
Methylcyclohexane  
Concen: 18.370 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 83 Resp: 44760  
Ion Ratio Lower Upper  
83 100  
55 79.4 40.6 122.0  
98 48.2 24.9 74.6





#39

1,2-Dichloropropane

Concen: 17.406 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 63 Resp: 2462

Ion Ratio Lower Upper

63 100

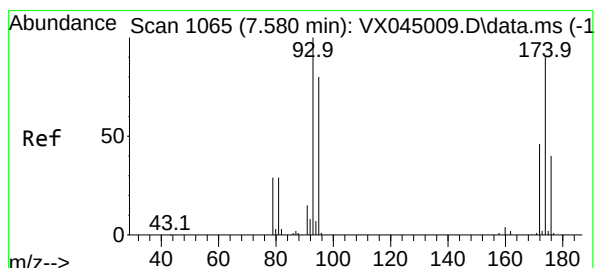
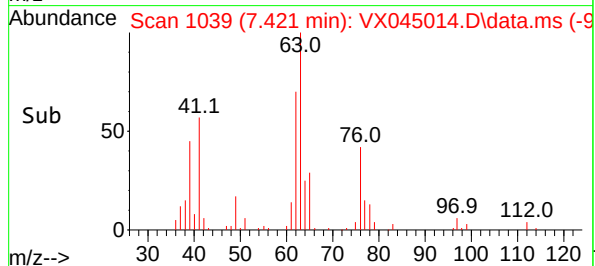
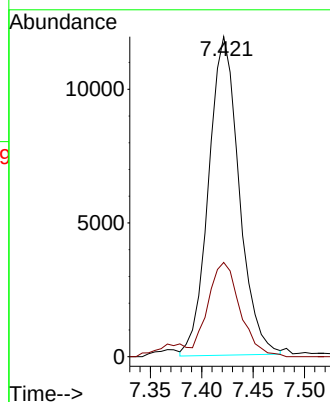
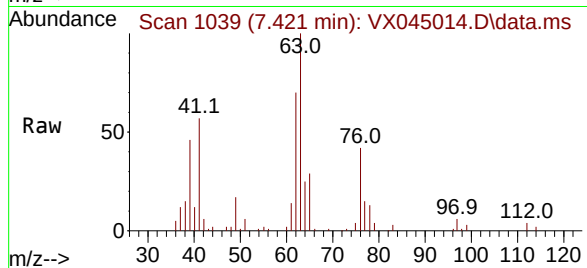
65 29.2 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#40

Dibromomethane

Concen: 18.010 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

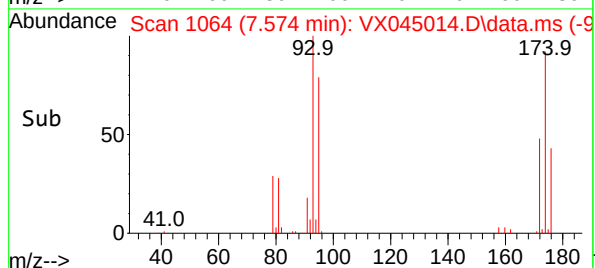
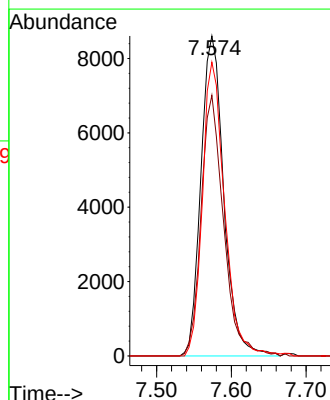
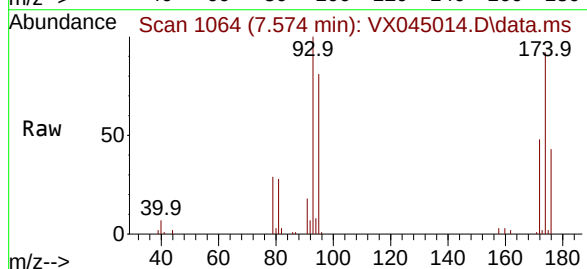
Tgt Ion: 93 Resp: 18285

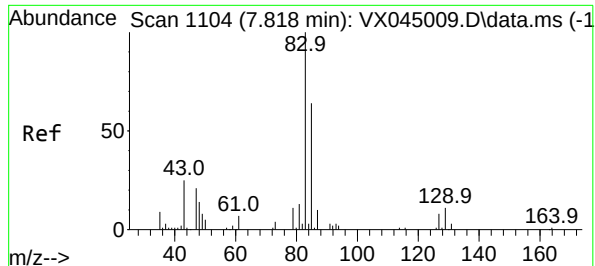
Ion Ratio Lower Upper

93 100

95 79.9 0.0 162.6

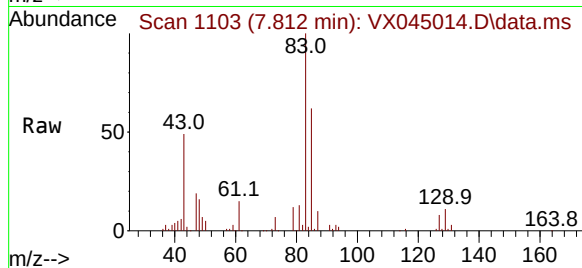
174 88.9 0.0 178.8





#41  
Bromodichloromethane  
Concen: 17.645 ug/l  
RT: 7.812 min Scan# 1103  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

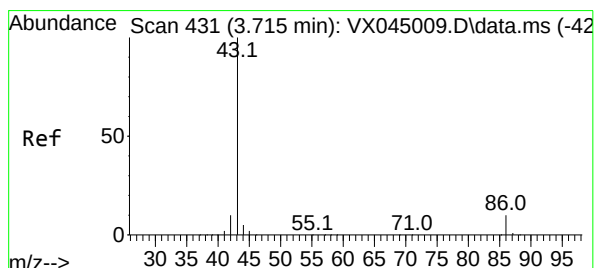
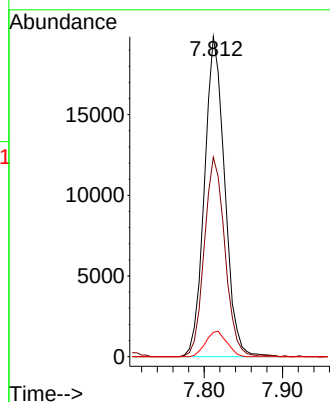
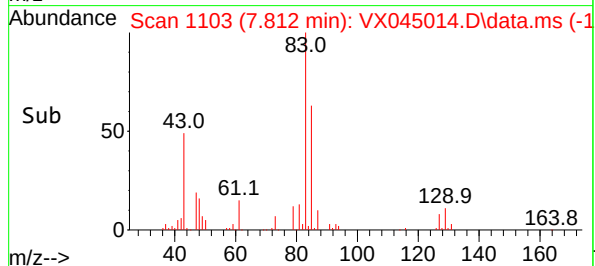
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125



Tgt Ion: 83 Resp: 35600  
Ion Ratio Lower Upper  
83 100  
85 62.3 51.0 76.6  
127 7.6 6.1 9.1

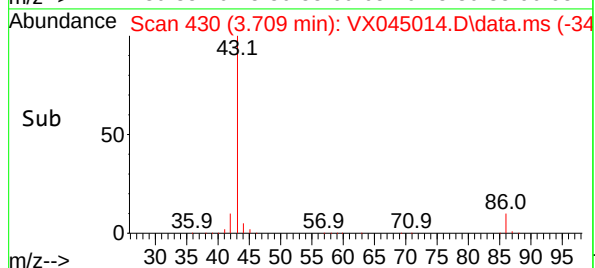
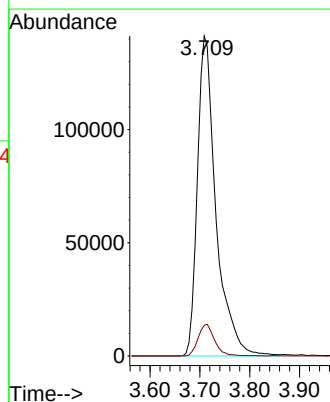
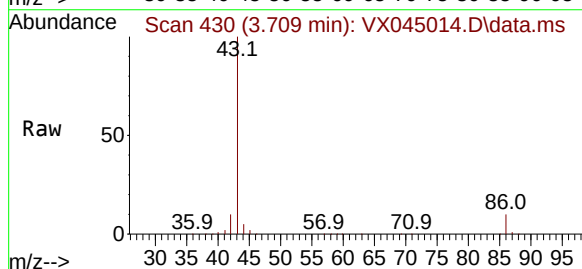
Manual Integrations  
APPROVED

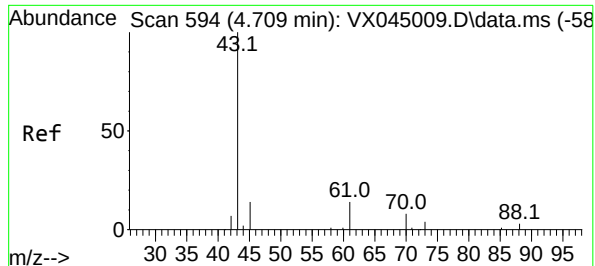
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#42  
Vinyl Acetate  
Concen: 89.973 ug/l  
RT: 3.709 min Scan# 430  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 365963  
Ion Ratio Lower Upper  
43 100  
86 8.7 7.0 10.4





#43

Ethyl Acetate

Concen: 17.072 ug/l

RT: 4.702 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 43 Resp: 3355

Ion Ratio Lower Upper

43 100

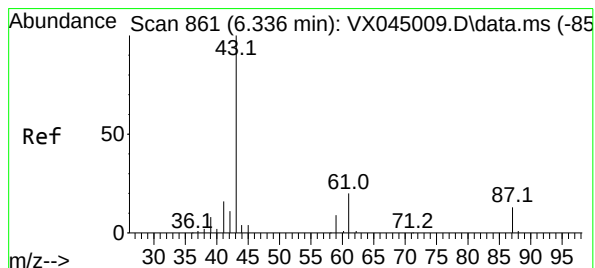
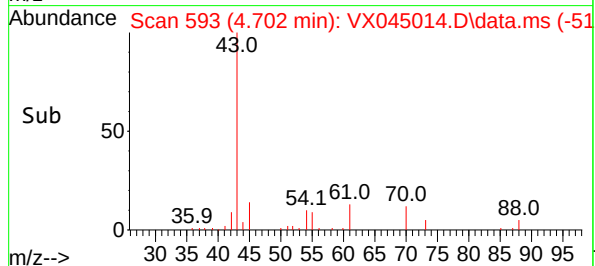
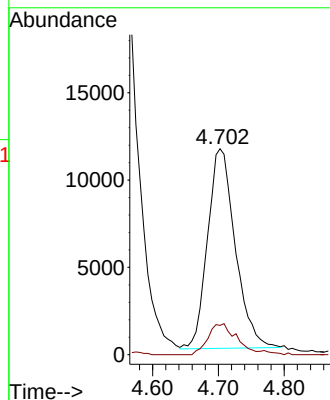
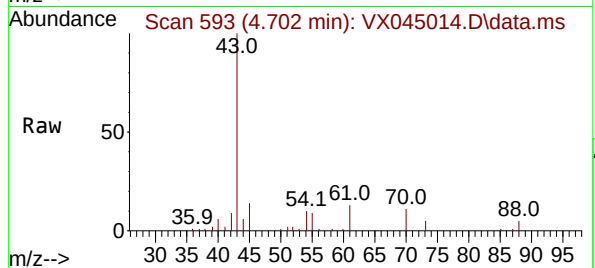
45 15.7 12.7 19.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#44

Isopropyl Acetate

Concen: 17.994 ug/l

RT: 6.330 min Scan# 860

Delta R.T. -0.006 min

Lab File: VX045014.D

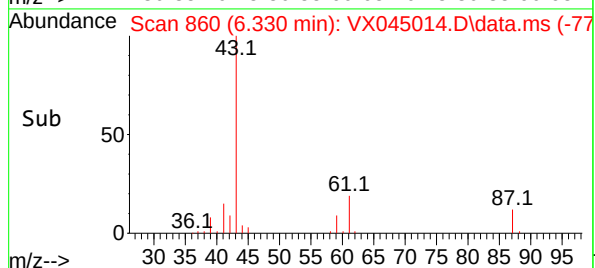
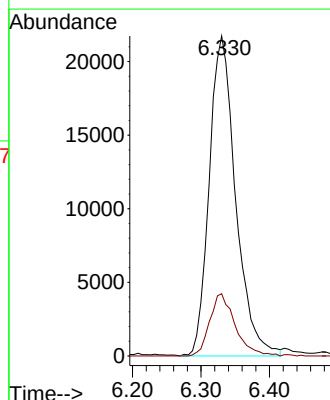
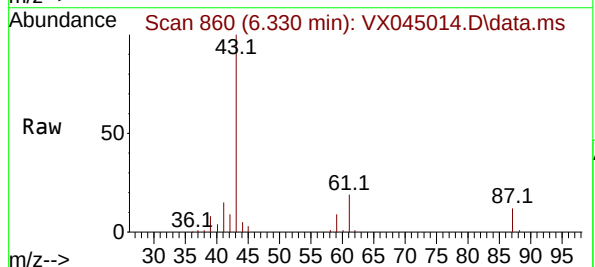
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 58216

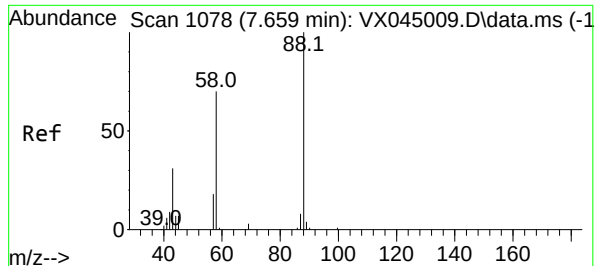
Ion Ratio Lower Upper

43 100

61 18.7 15.5 23.3

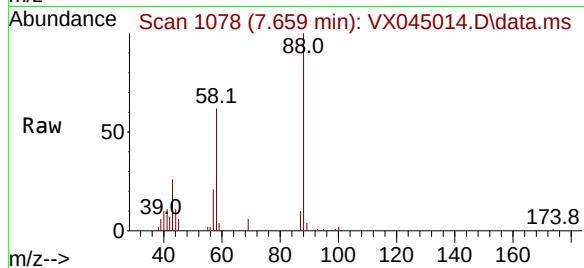






#45  
1,4-Dioxane  
Concen: 376.282 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

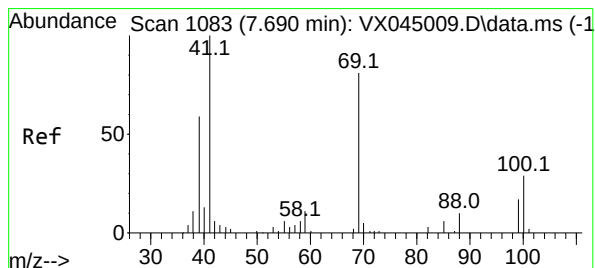
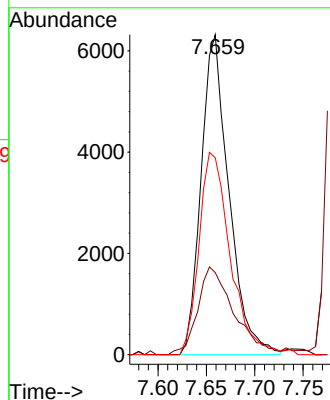
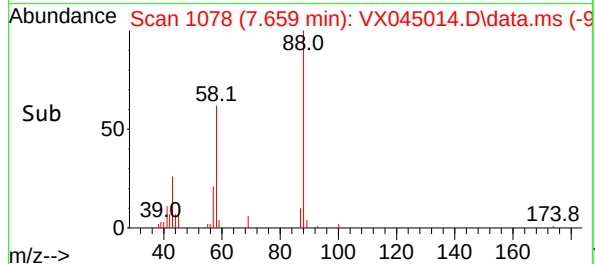
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125



Tgt Ion: 88 Resp: 12658  
Ion Ratio Lower Upper  
88 100  
43 35.5 29.6 44.4  
58 70.6 56.2 84.4

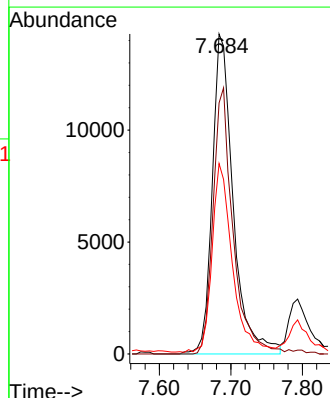
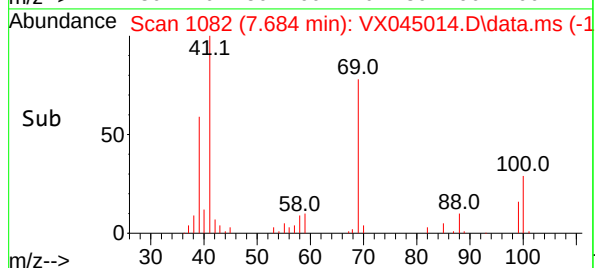
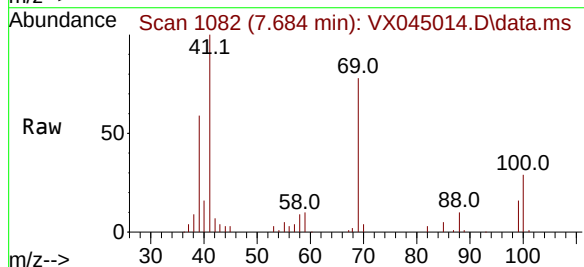
Manual Integrations  
APPROVED

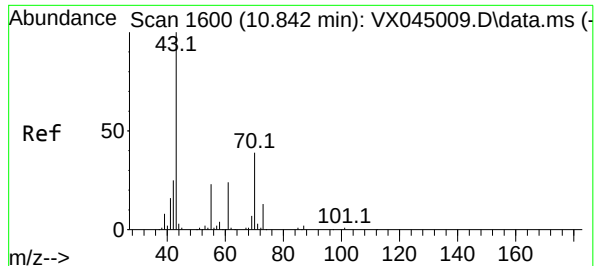
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#46  
Methyl methacrylate  
Concen: 18.320 ug/l  
RT: 7.684 min Scan# 1082  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 41 Resp: 29063  
Ion Ratio Lower Upper  
41 100  
69 78.5 40.7 122.1  
39 58.8 29.5 88.5





#47

n-amy1 Acetate

Concen: 17.920 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 43 Resp: 50309

Ion Ratio Lower Upper

43 100

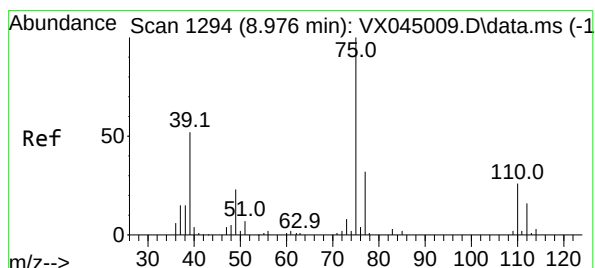
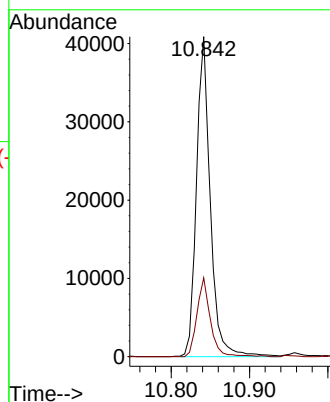
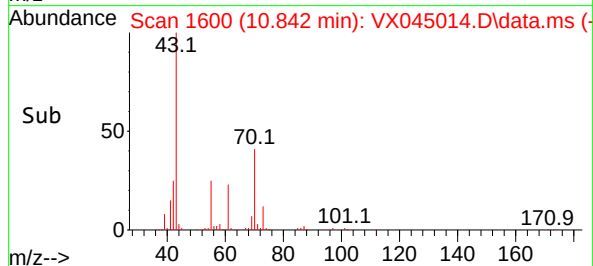
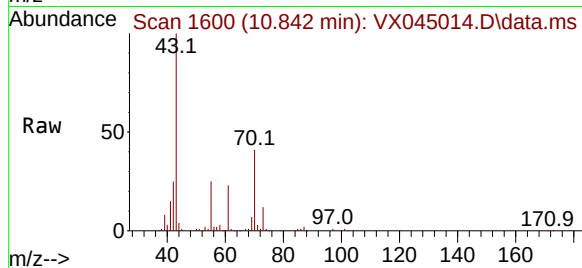
55 23.8 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#48

t-1,3-Dichloropropene

Concen: 16.972 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045014.D

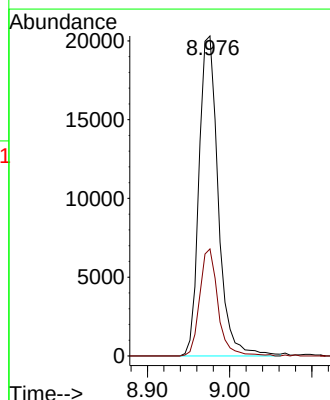
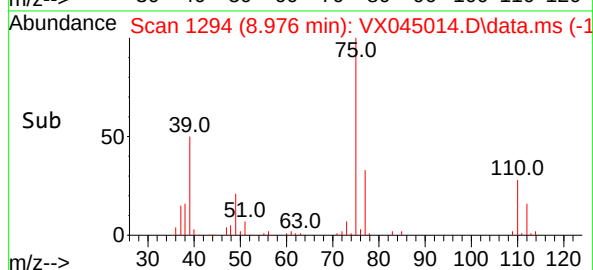
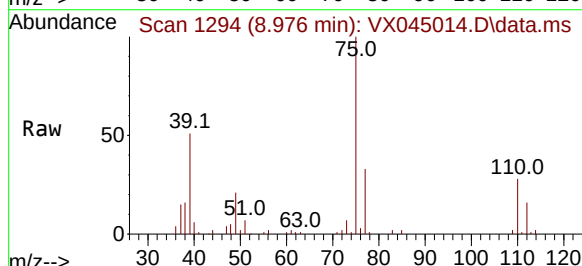
Acq: 21 Feb 2025 13:09

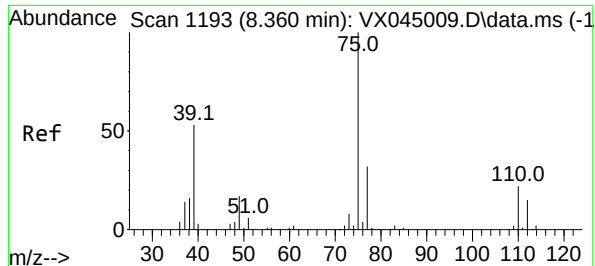
Tgt Ion: 75 Resp: 33010

Ion Ratio Lower Upper

75 100

77 33.5 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 17.491 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 75 Resp: 3851

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9

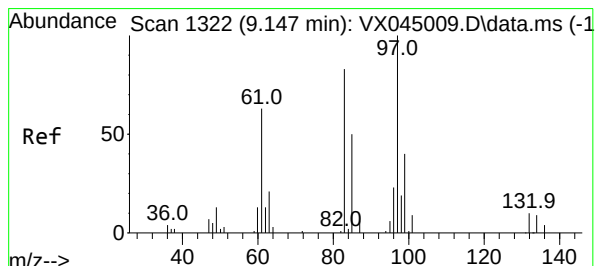
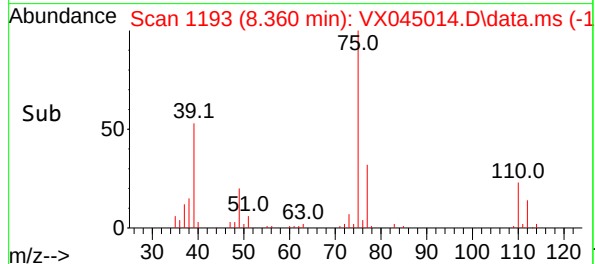
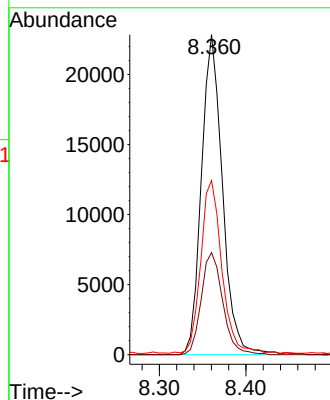
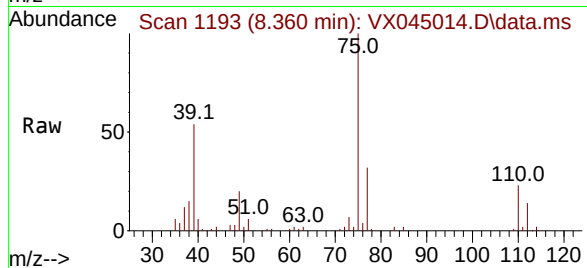
39 54.0 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#50

1,1,2-Trichloroethane

Concen: 18.451 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Tgt Ion: 97 Resp: 24435

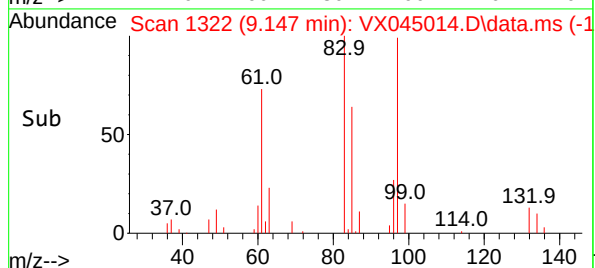
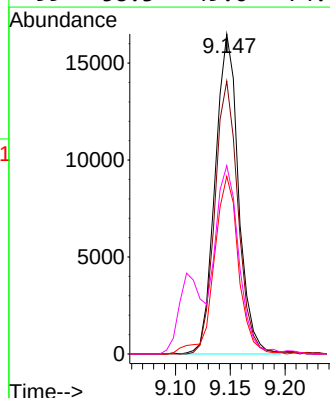
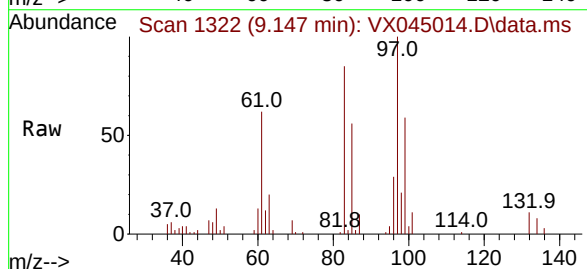
Ion Ratio Lower Upper

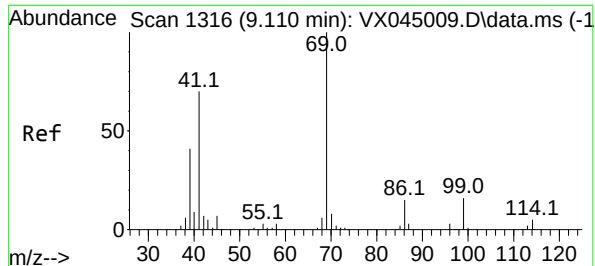
97 100

83 85.2 66.0 99.0

85 55.1 42.5 63.7

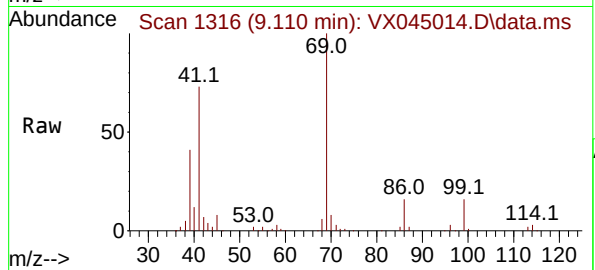
99 58.3 49.6 74.4





#51  
Ethyl methacrylate  
Concen: 17.882 ug/l  
RT: 9.110 min Scan# 1316  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

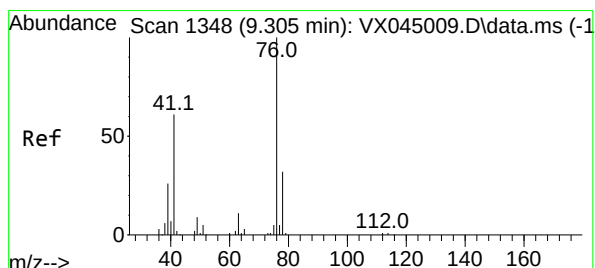
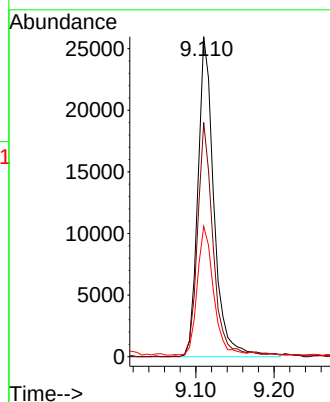
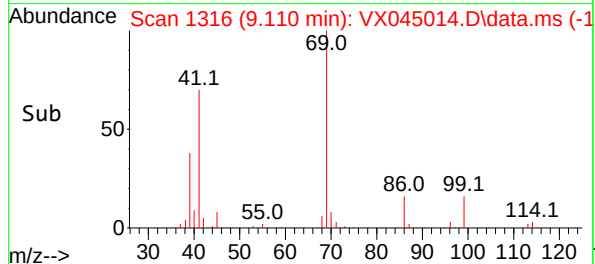
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion: 69 Resp: 3724  
Ion Ratio Lower Upper  
69 100  
41 73.2 35.1 105.3  
39 40.1 20.5 61.6

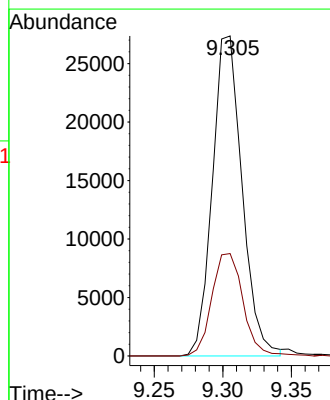
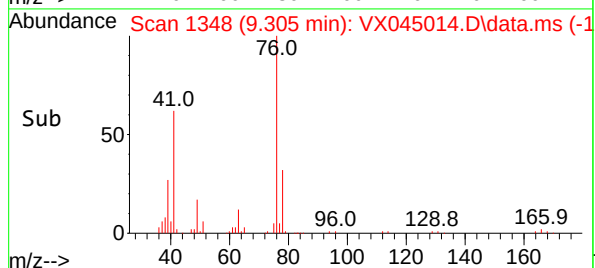
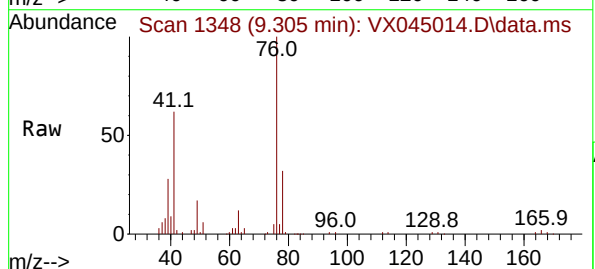
Manual Integrations  
APPROVED

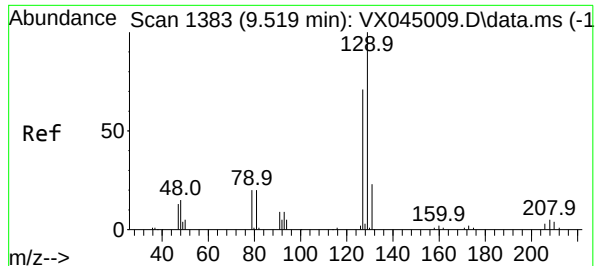
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#52  
1,3-Dichloropropane  
Concen: 17.765 ug/l  
RT: 9.305 min Scan# 1348  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 76 Resp: 41224  
Ion Ratio Lower Upper  
76 100  
78 33.7 0.0 63.6





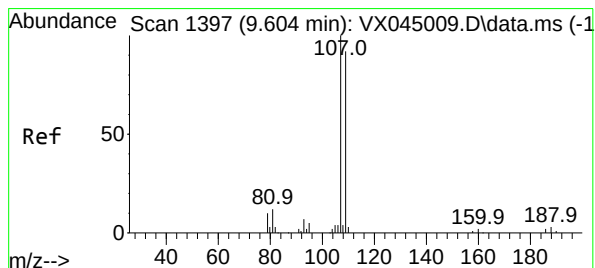
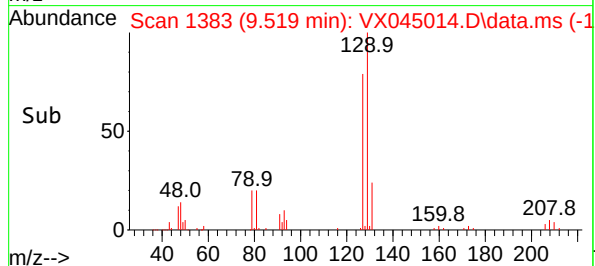
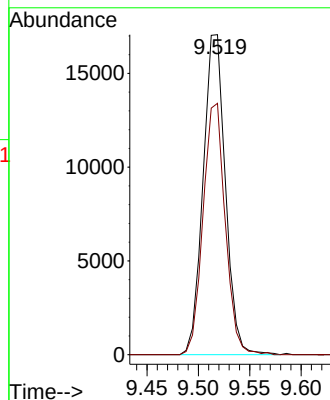
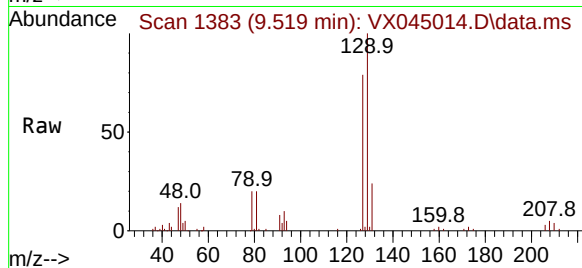
#53  
Dibromochloromethane  
Concen: 17.620 ug/l  
RT: 9.519 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125

Tgt Ion:129 Resp: 2580  
Ion Ratio Lower Upper  
129 100  
127 78.1 37.3 111.9

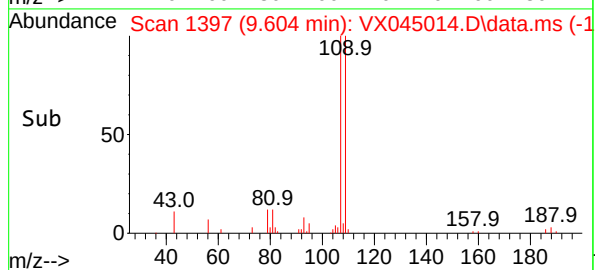
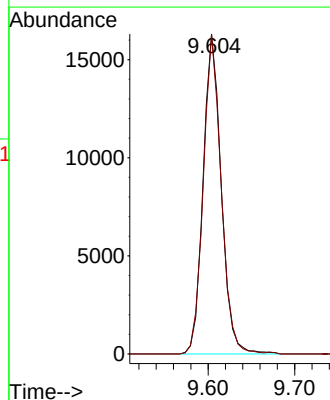
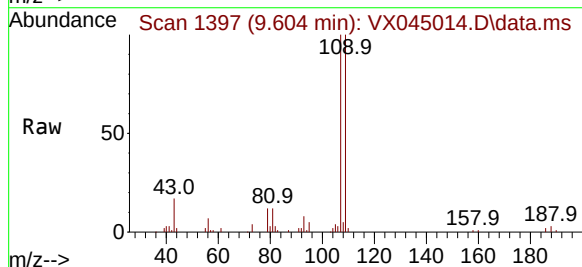
Manual Integrations  
APPROVED

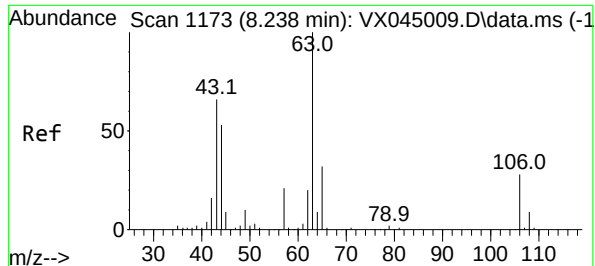
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#54  
1,2-Dibromoethane  
Concen: 17.616 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion:107 Resp: 23689  
Ion Ratio Lower Upper  
107 100  
109 98.5 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 85.929 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

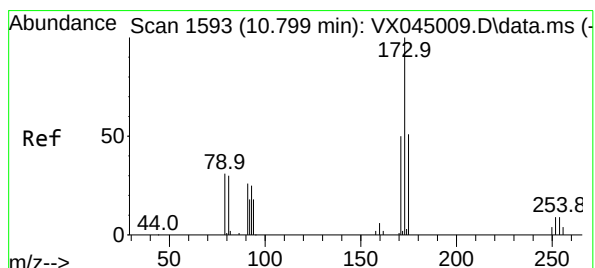
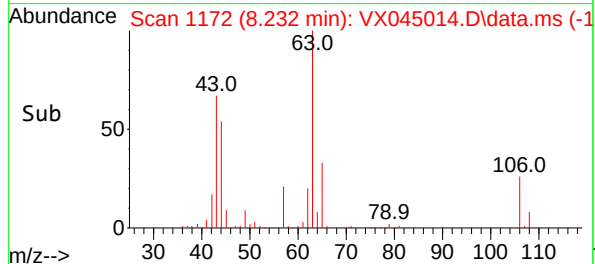
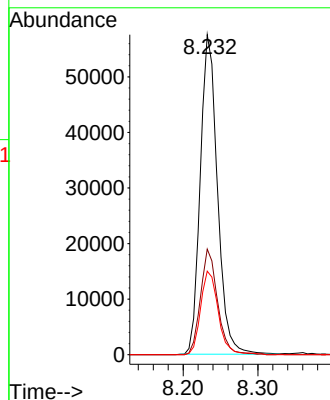
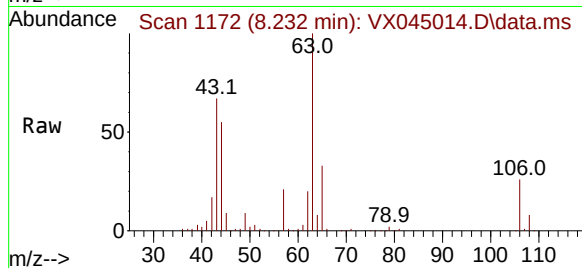
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 9190 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 65        | 32.6  | 26.2  | 39.2 |
| 106       | 26.5  | 21.2  | 31.8 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#56

Bromoform

Concen: 17.412 ug/l

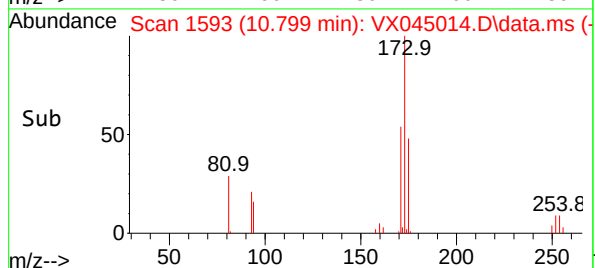
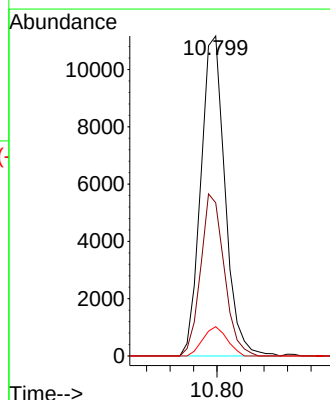
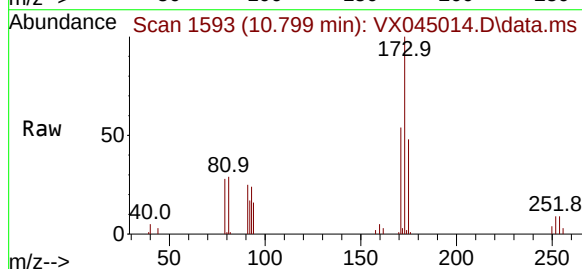
RT: 10.799 min Scan# 1593

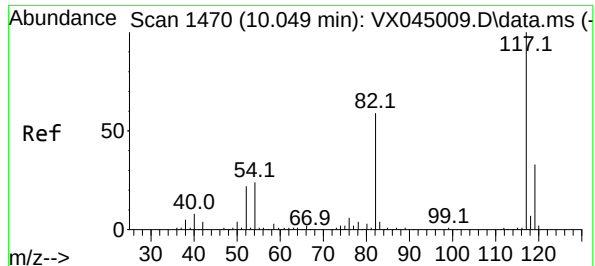
Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 15981 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 49.3  | 39.6  | 59.4  |
| 254       | 9.1   | 6.3   | 9.5   |





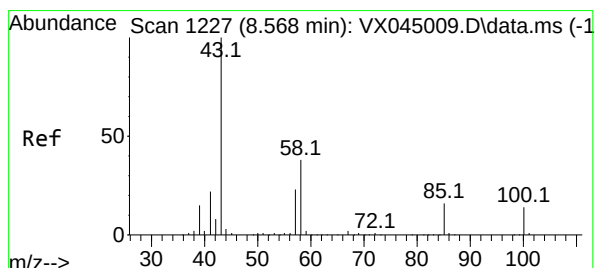
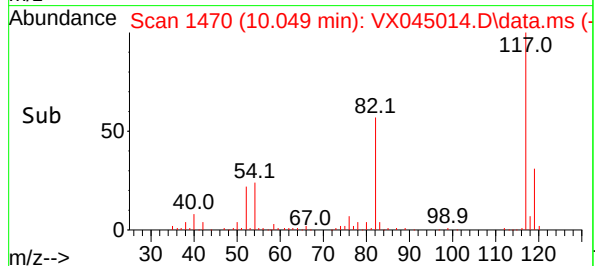
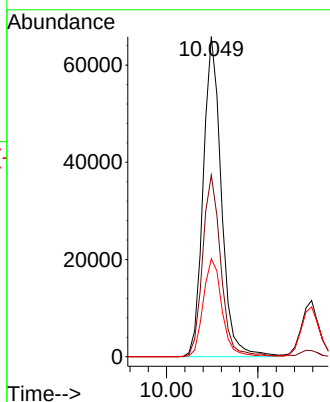
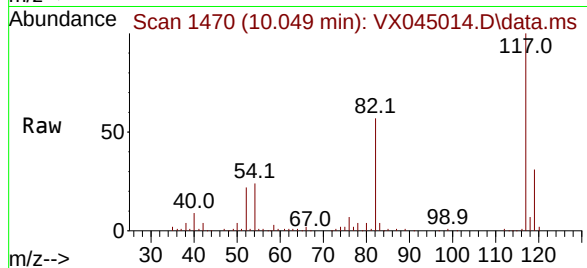
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125

Tgt Ion: 117 Resp: 90634  
Ion Ratio Lower Upper  
117 100  
82 57.1 45.8 68.8  
119 31.7 25.5 38.3

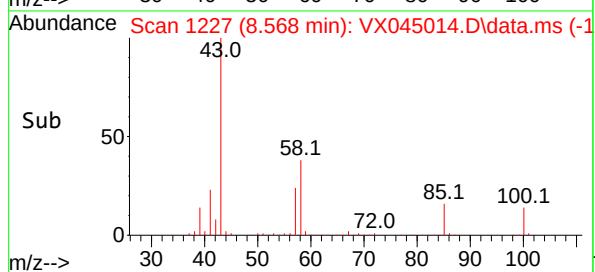
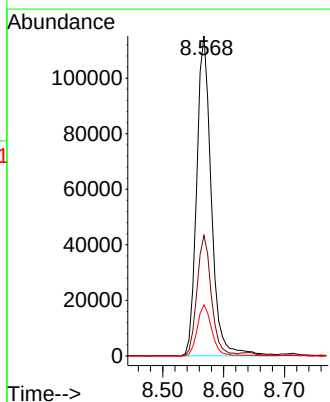
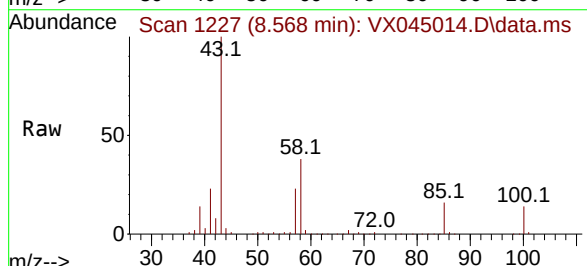
Manual Integrations  
APPROVED

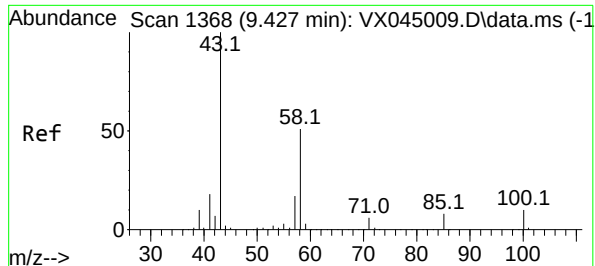
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#58  
4-Methyl-2-Pentanone  
Concen: 93.175 ug/l  
RT: 8.568 min Scan# 1227  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 192103  
Ion Ratio Lower Upper  
43 100  
58 37.1 29.5 44.3  
85 15.6 12.9 19.3





#59

2-Hexanone

Concen: 95.501 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 43 Resp: 142320

Ion Ratio Lower Upper

43 100

58 51.3 41.6 62.4

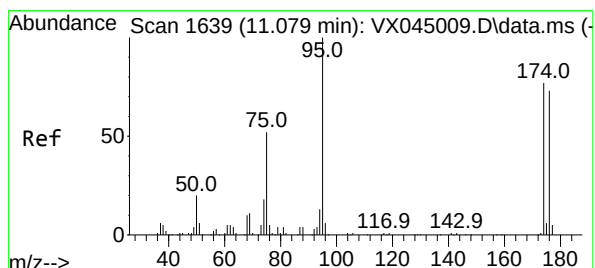
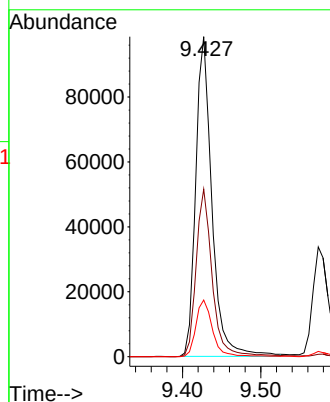
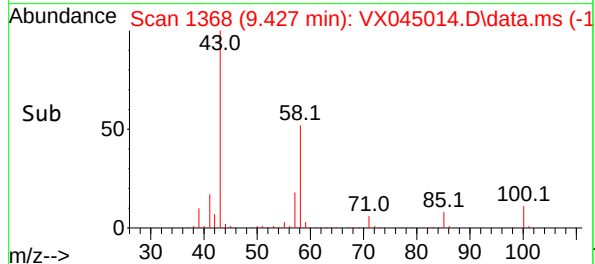
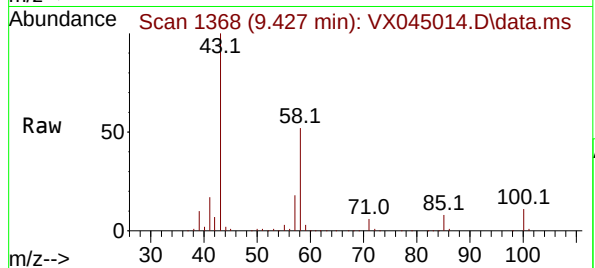
57 17.7 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#60

4-Bromofluorobenzene

Concen: 30.094 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

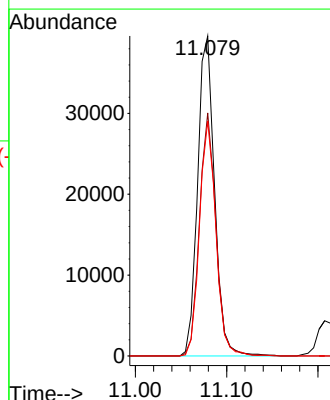
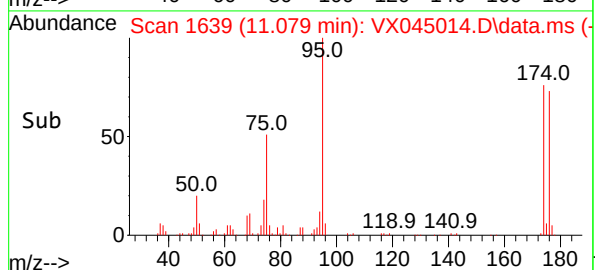
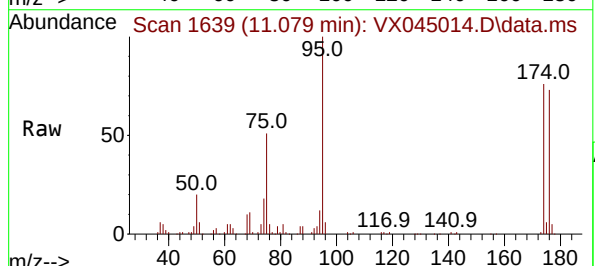
Tgt Ion: 95 Resp: 50982

Ion Ratio Lower Upper

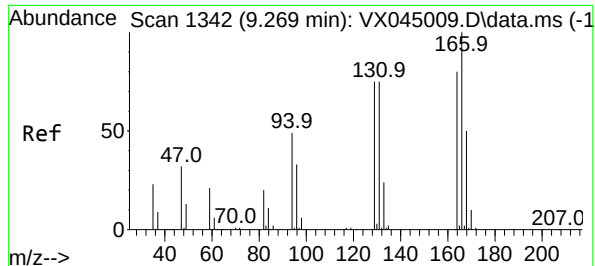
95 100

174 73.6 59.5 89.3

176 70.9 55.5 83.3

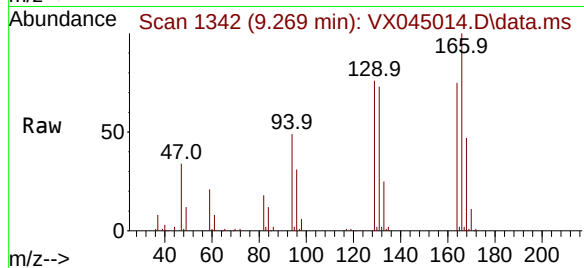






#61  
Tetrachloroethene  
Concen: 17.908 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

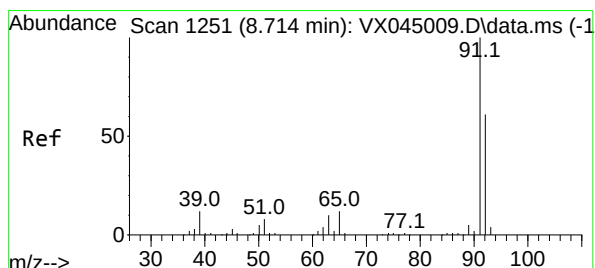
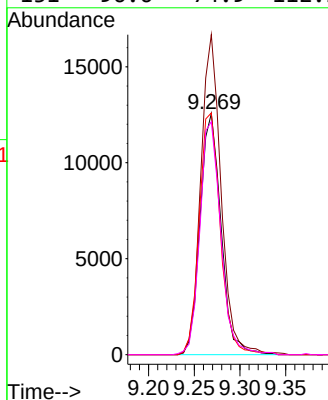
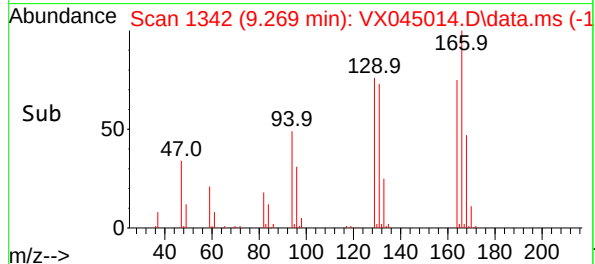
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:164 Resp: 1998  
Ion Ratio Lower Upper  
164 100  
166 132.7 100.3 150.5  
129 100.3 75.5 113.3  
131 96.6 74.9 112.3

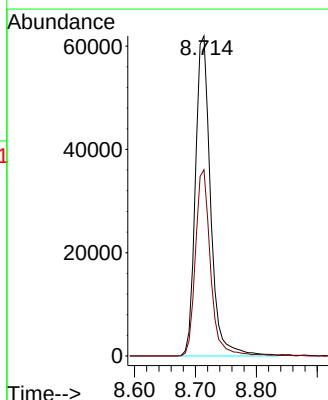
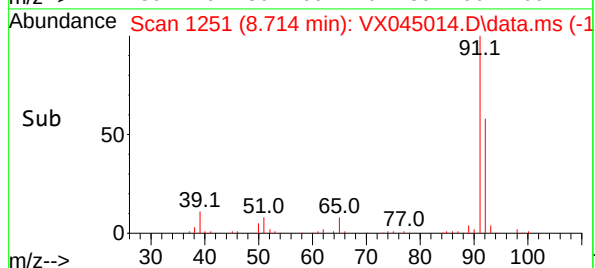
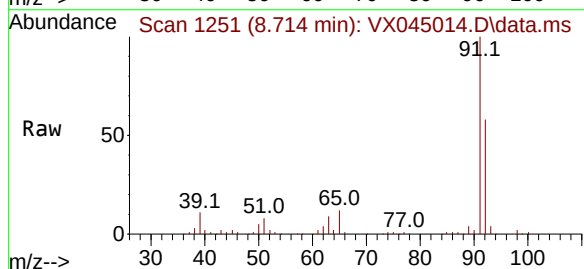
Manual Integrations  
APPROVED

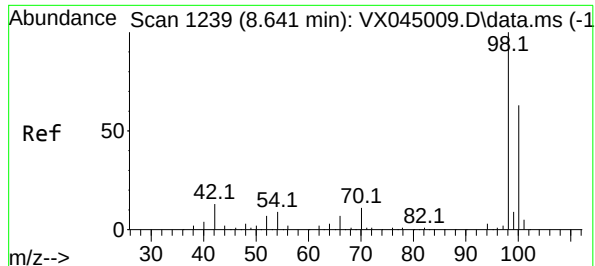
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#62  
Toluene  
Concen: 17.876 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 107324  
Ion Ratio Lower Upper  
91 100  
92 57.4 46.9 70.3





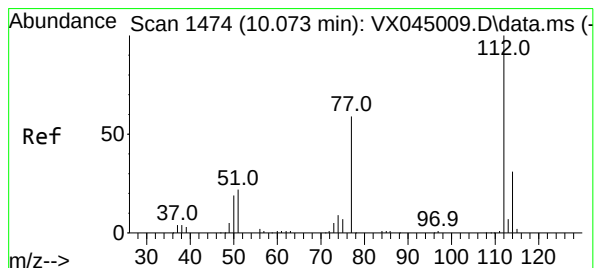
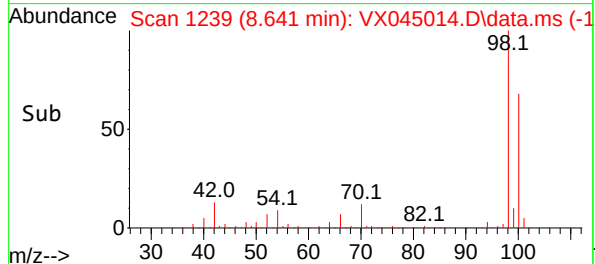
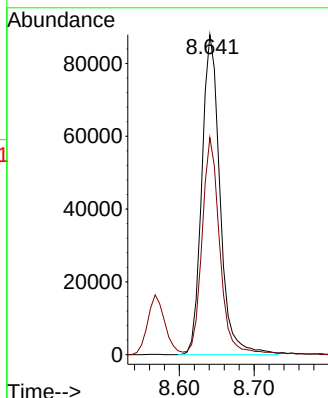
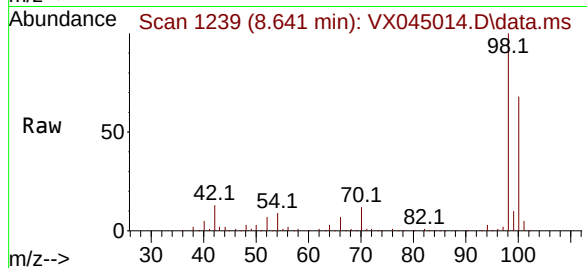
#63  
Toluene-d8  
Concen: 29.620 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion: 98 Resp: 148510  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.7 77.5

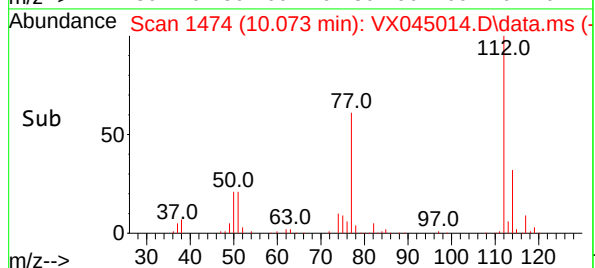
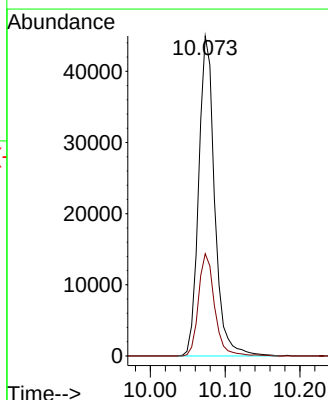
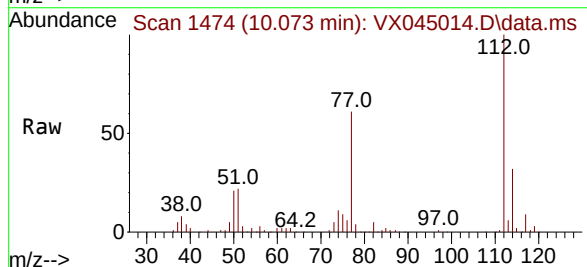
Manual Integrations  
APPROVED

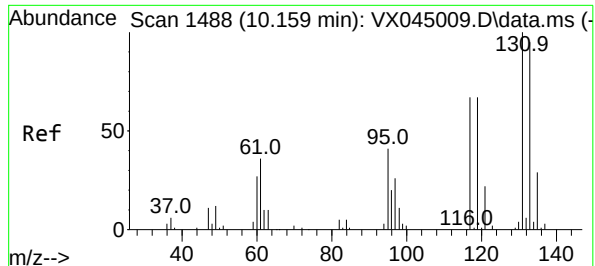
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#64  
Chlorobenzene  
Concen: 17.942 ug/l  
RT: 10.073 min Scan# 1474  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion:112 Resp: 66754  
Ion Ratio Lower Upper  
112 100  
114 32.0 24.7 37.1





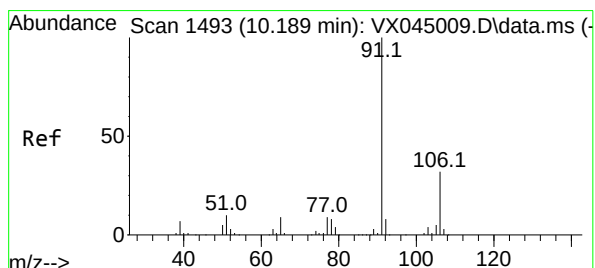
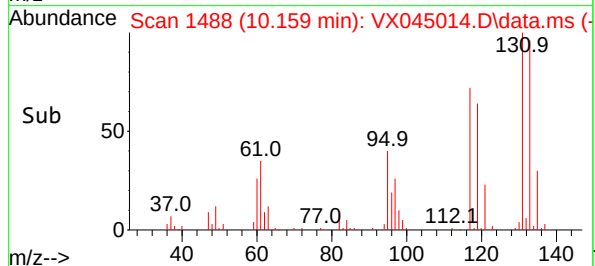
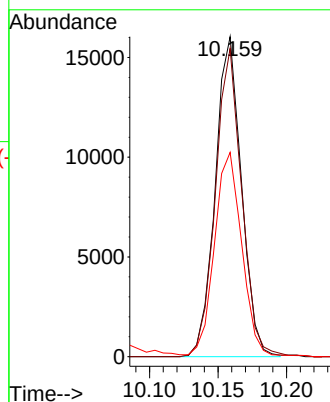
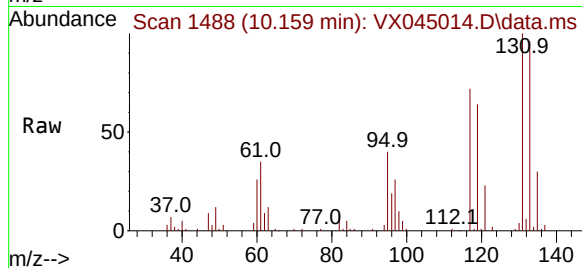
#65  
1,1,1,2-Tetrachloroethane  
Concen: 17.362 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion:131 Resp: 21314  
Ion Ratio Lower Upper  
131 100  
133 96.5 0.0 187.8  
119 65.3 0.0 133.0

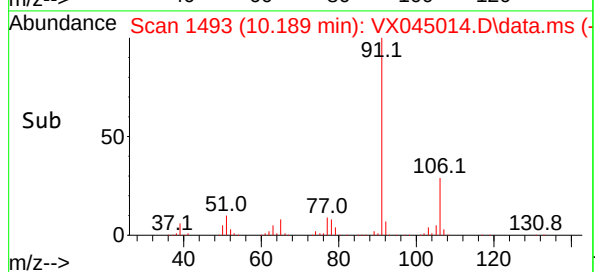
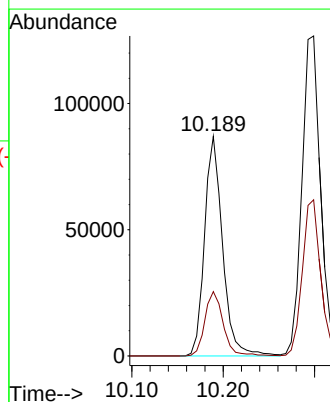
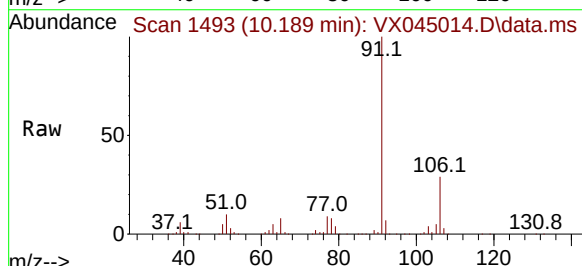
Manual Integrations  
APPROVED

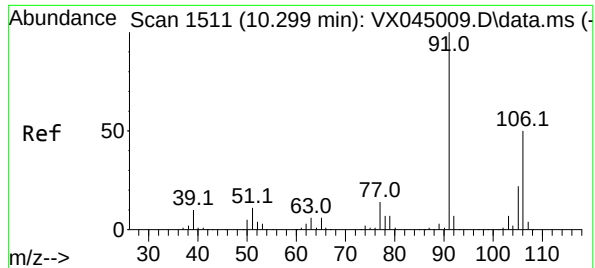
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#66  
Ethyl Benzene  
Concen: 18.117 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 119085  
Ion Ratio Lower Upper  
91 100  
106 29.3 25.4 38.2





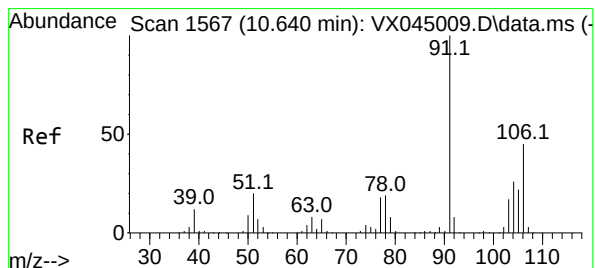
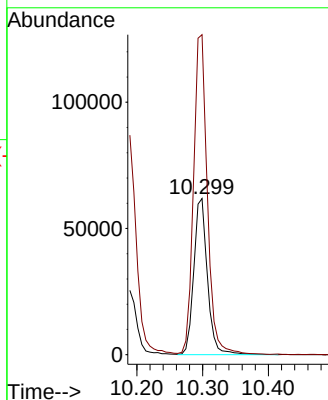
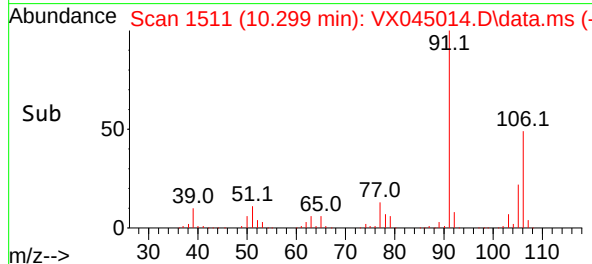
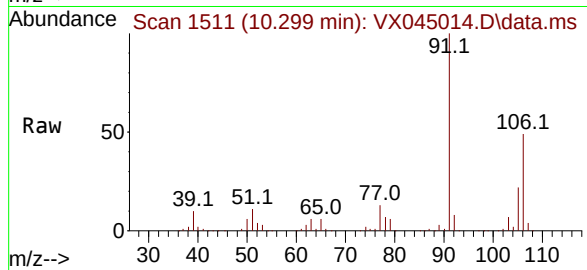
#67  
m/p-Xylenes  
Concen: 36.205 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125

Tgt Ion:106 Resp: 88668  
Ion Ratio Lower Upper  
106 100  
91 207.8 163.7 245.5

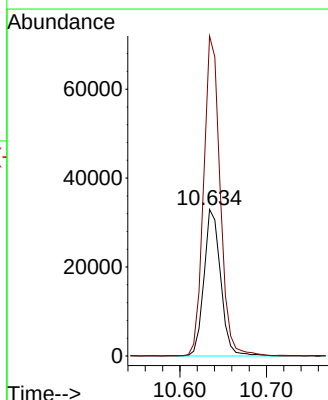
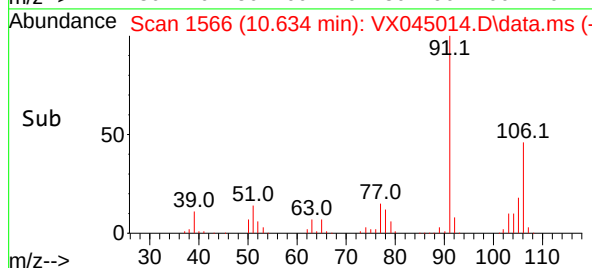
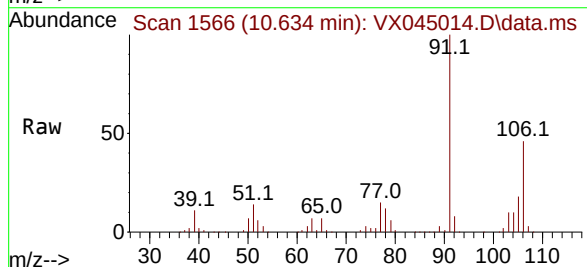
Manual Integrations  
APPROVED

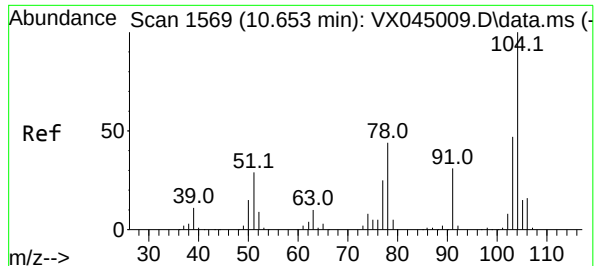
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#68  
o-Xylene  
Concen: 18.340 ug/l  
RT: 10.634 min Scan# 1566  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion:106 Resp: 44070  
Ion Ratio Lower Upper  
106 100  
91 215.2 109.7 329.1





#69

Styrene

Concen: 17.886 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

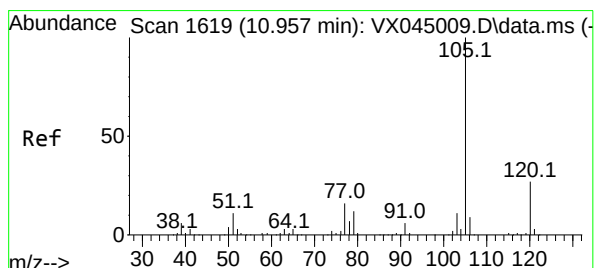
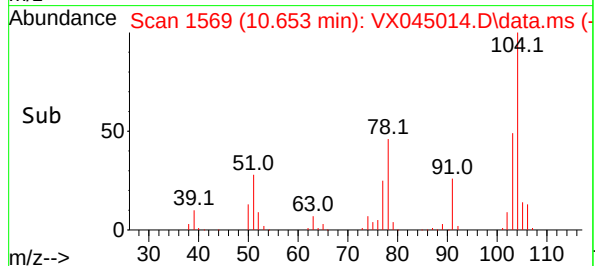
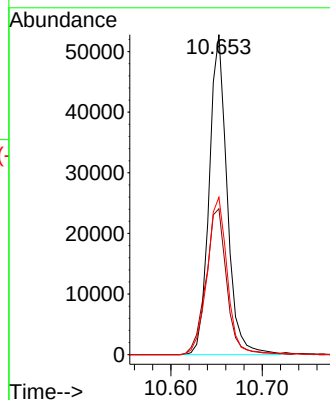
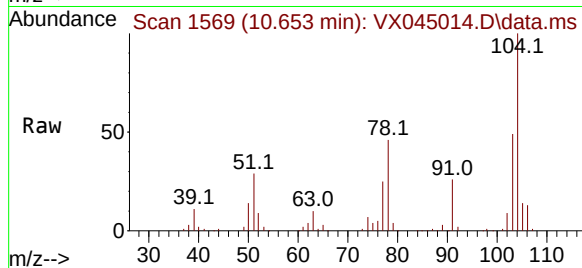
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:104 | Resp: | 7178      |
| Ion Ratio   | Lower | Upper     |
| 104         | 100   |           |
| 78          | 52.9  | 41.4 62.0 |
| 103         | 55.2  | 43.0 64.4 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#70

Isopropylbenzene

Concen: 18.117 ug/l

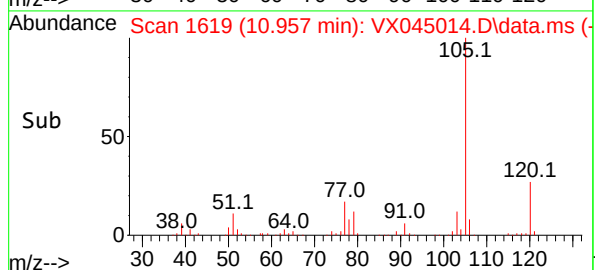
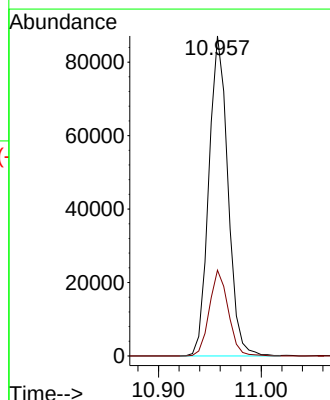
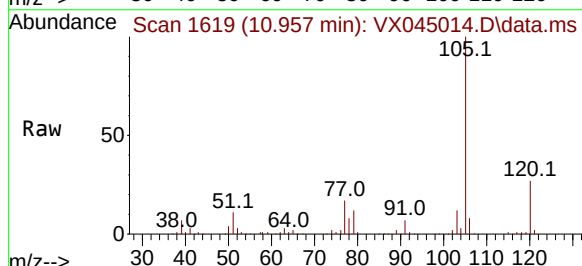
RT: 10.957 min Scan# 1619

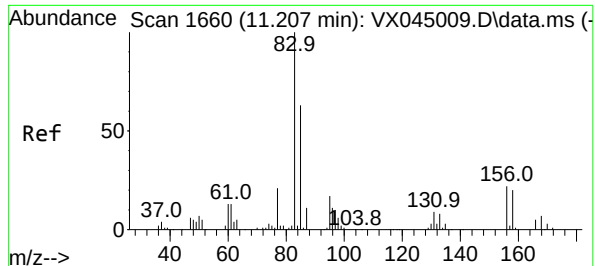
Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

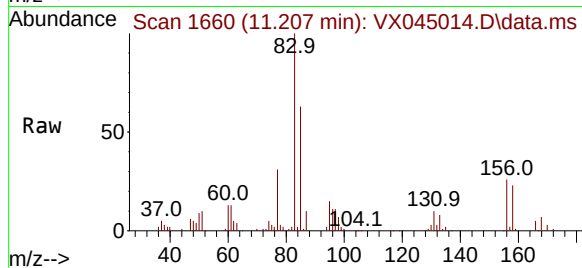
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 112344    |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 26.4  | 18.4 34.2 |





#71  
1,1,2,2-Tetrachloroethane  
Concen: 18.349 ug/l  
RT: 11.207 min Scan# 1660  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

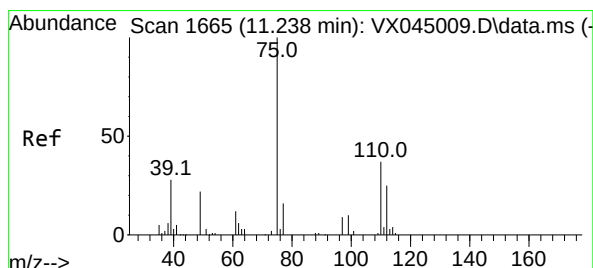
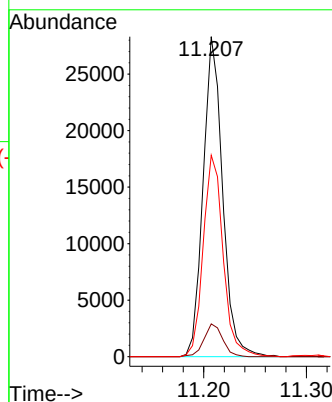
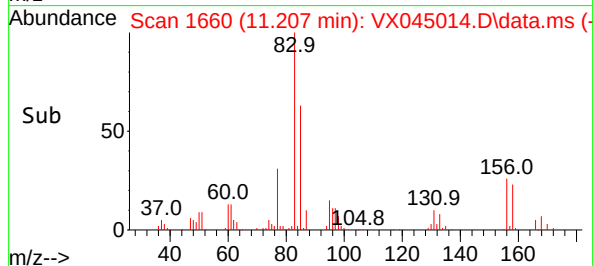
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion: 83 Resp: 3741  
Ion Ratio Lower Upper  
83 100  
131 9.8 4.8 14.3  
85 64.2 32.3 96.8

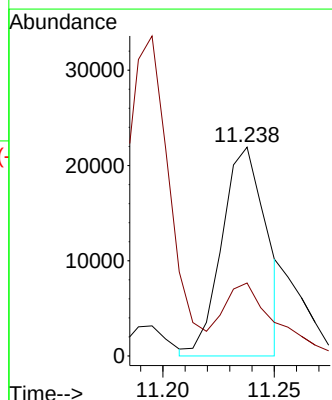
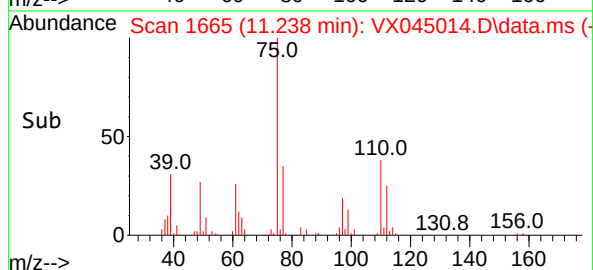
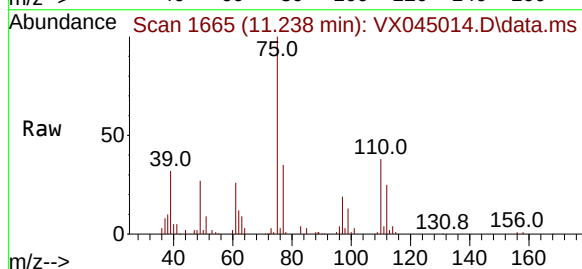
Manual Integrations  
APPROVED

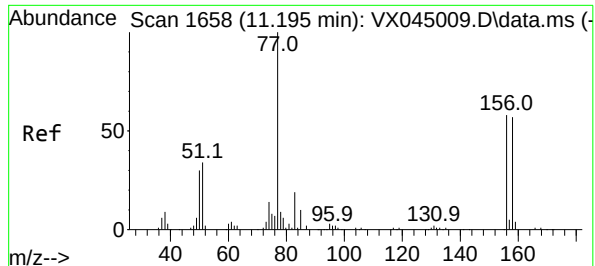
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#72  
1,2,3-Trichloropropane  
Concen: 18.172 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

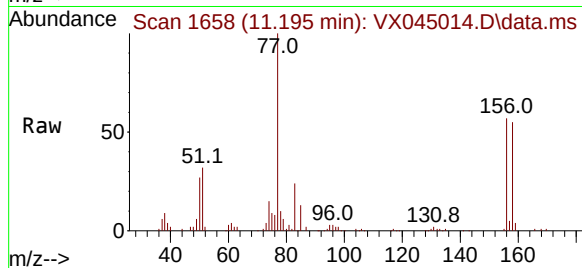
Tgt Ion: 75 Resp: 30477  
Ion Ratio Lower Upper  
75 100  
77 41.7 0.0 84.0





#73  
Bromobenzene  
Concen: 18.218 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

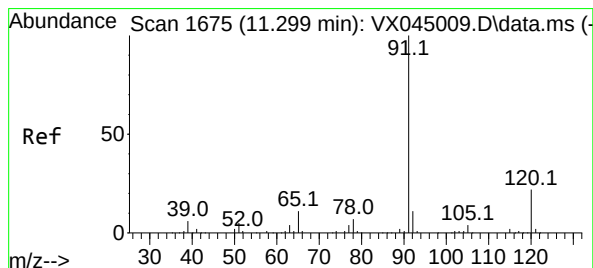
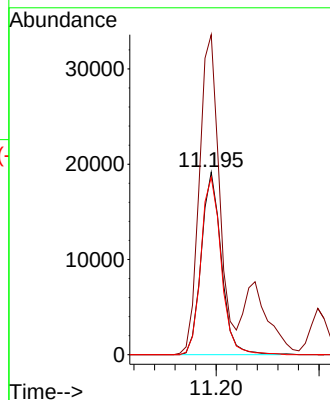
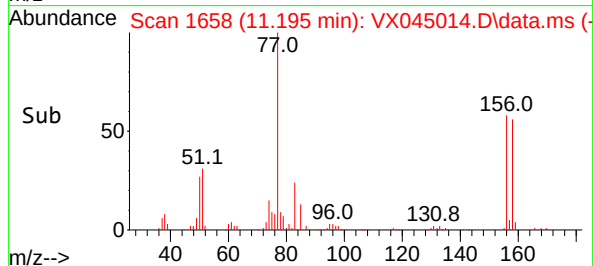
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125



Tgt Ion:156 Resp: 26000  
Ion Ratio Lower Upper  
156 100  
77 175.6 0.0 347.2  
158 98.5 0.0 197.6

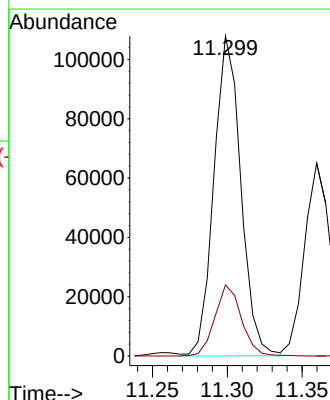
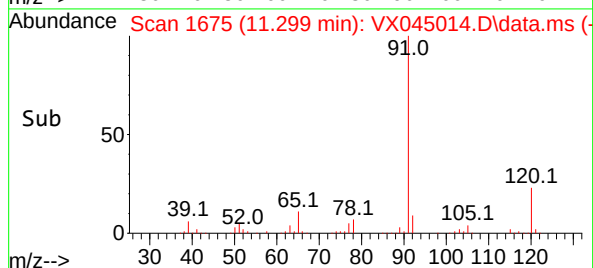
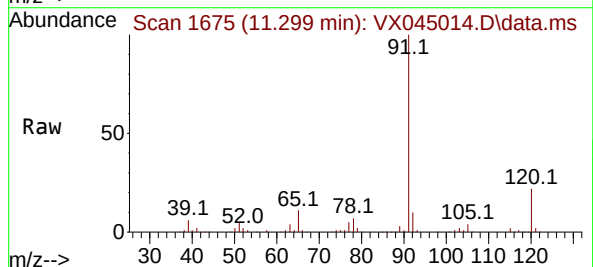
Manual Integrations  
APPROVED

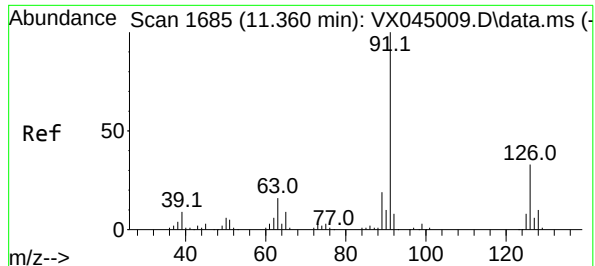
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#74  
n-propylbenzene  
Concen: 18.269 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 134814  
Ion Ratio Lower Upper  
91 100  
120 21.9 0.0 44.2





#75

2-Chlorotoluene

Concen: 18.145 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 91 Resp: 8094

Ion Ratio Lower Upper

91 100

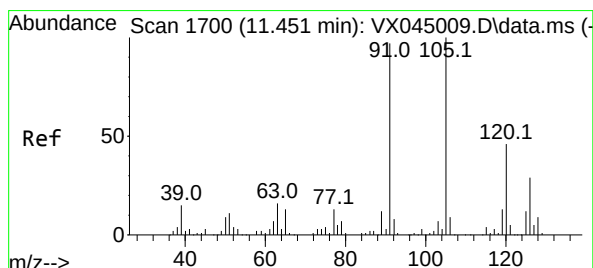
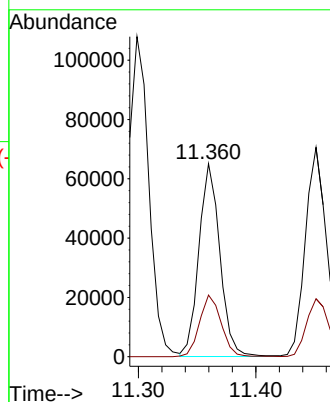
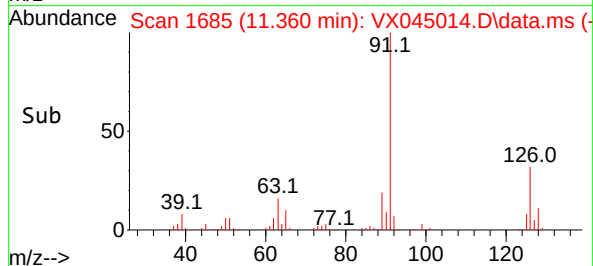
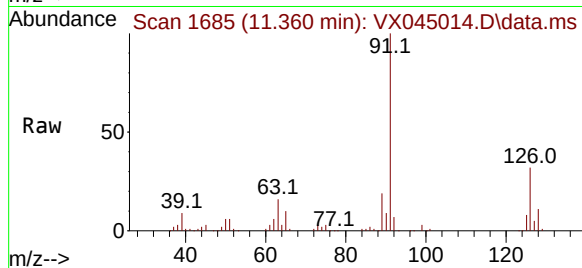
126 32.9 0.0 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#76

1,3,5-Trimethylbenzene

Concen: 18.633 ug/l

RT: 11.445 min Scan# 1699

Delta R.T. -0.006 min

Lab File: VX045014.D

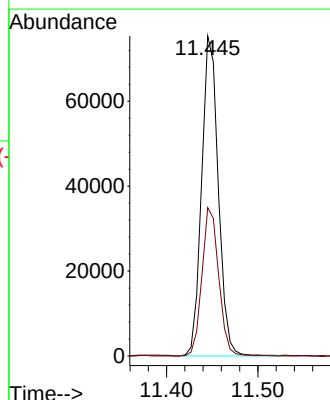
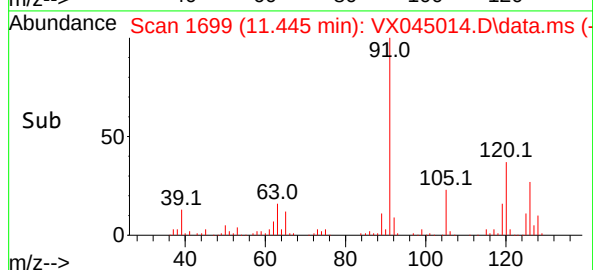
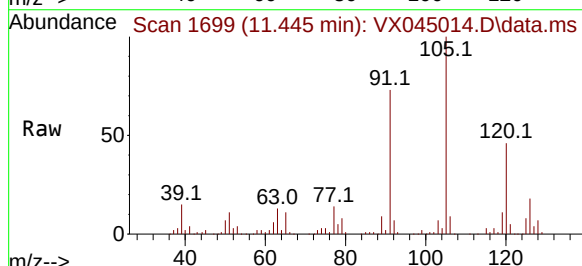
Acq: 21 Feb 2025 13:09

Tgt Ion:105 Resp: 95320

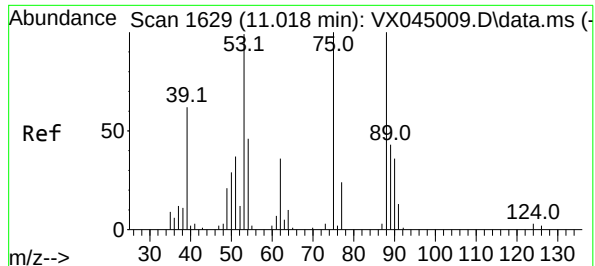
Ion Ratio Lower Upper

105 100

120 46.6 0.0 94.4

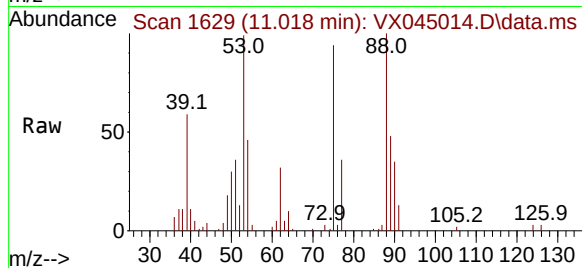






#77  
t-1,4-Dichloro-2-butene  
Concen: 15.964 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

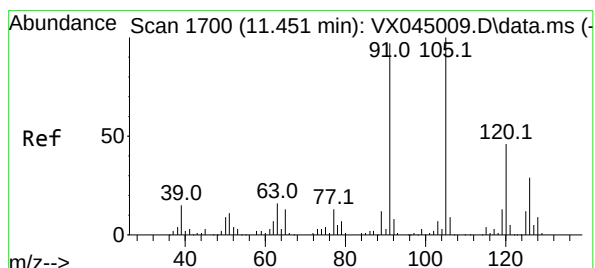
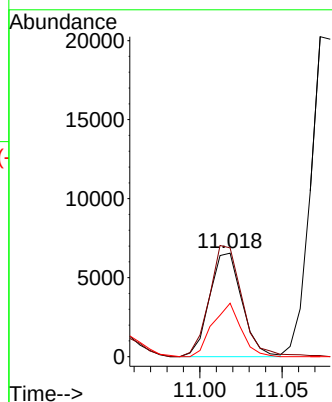
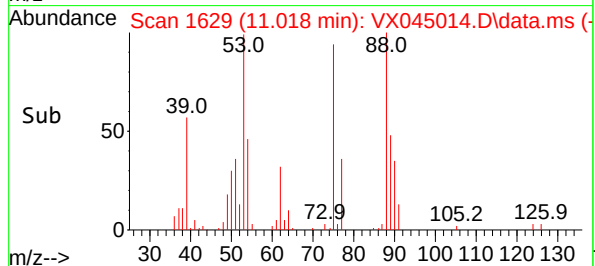
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion: 75 Resp: 9000  
Ion Ratio Lower Upper  
75 100  
53 105.0 49.8 149.4  
89 51.6 21.4 64.2

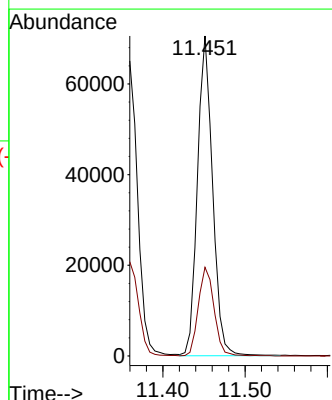
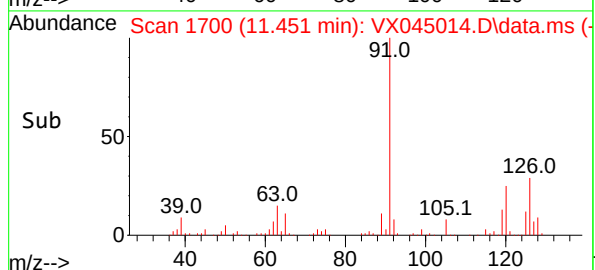
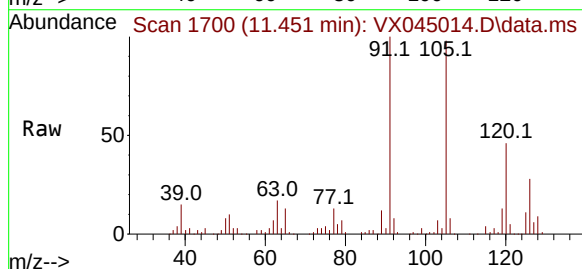
Manual Integrations  
APPROVED

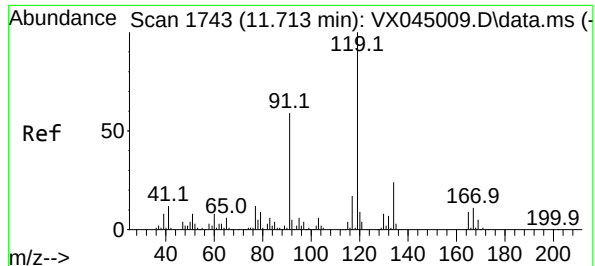
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#78  
4-Chlorotoluene  
Concen: 18.131 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 90166  
Ion Ratio Lower Upper  
91 100  
126 28.7 0.0 58.0





#79

tert-butylbenzene

Concen: 18.420 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

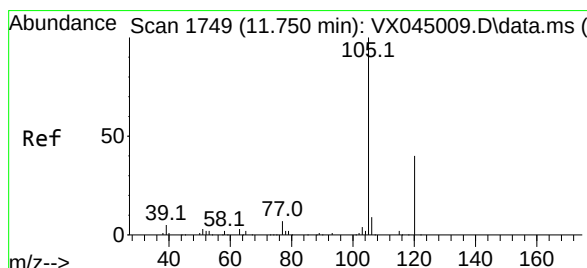
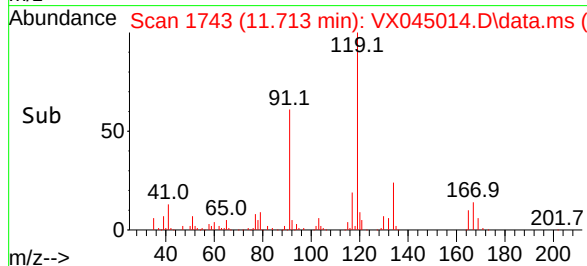
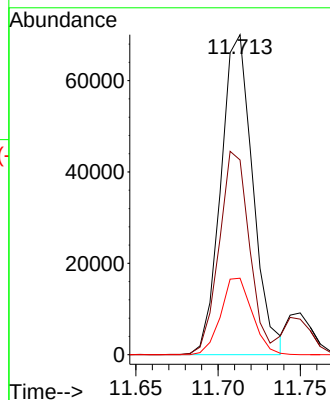
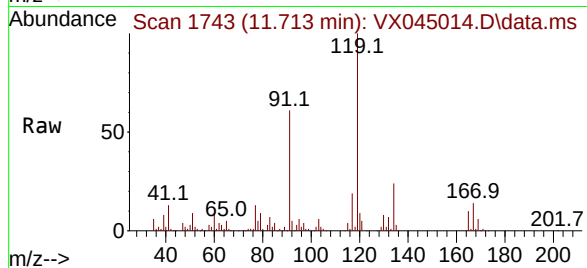
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 9494  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 60.2  | 0.0   | 120.6 |
| 134      | 23.6  | 0.0   | 48.2  |

## Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#80

1,2,4-Trimethylbenzene

Concen: 18.423 ug/l

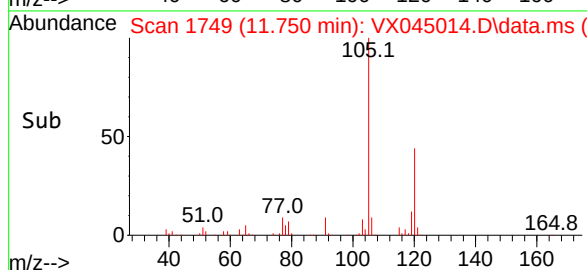
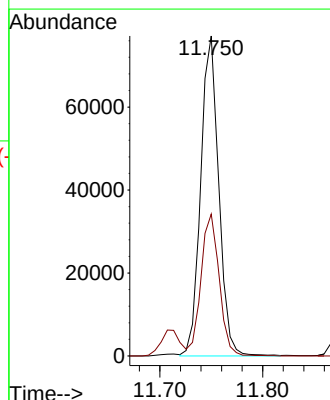
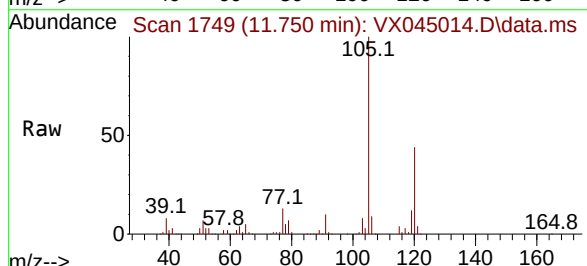
RT: 11.750 min Scan# 1749

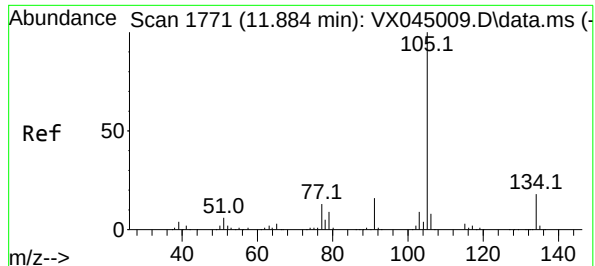
Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

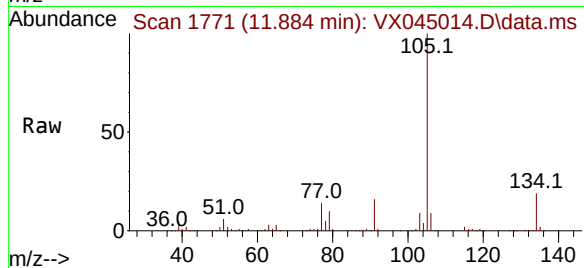
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 94408 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 44.7  | 0.0   | 88.4  |





#81  
sec-Butylbenzene  
Concen: 18.461 ug/l  
RT: 11.884 min Scan# 1771  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

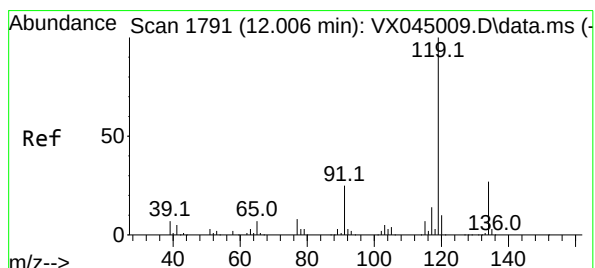
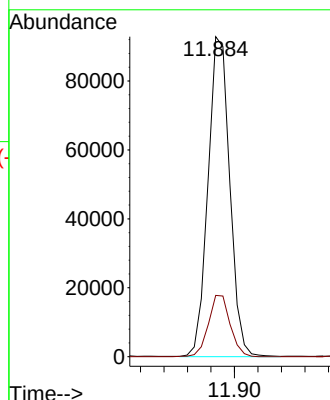
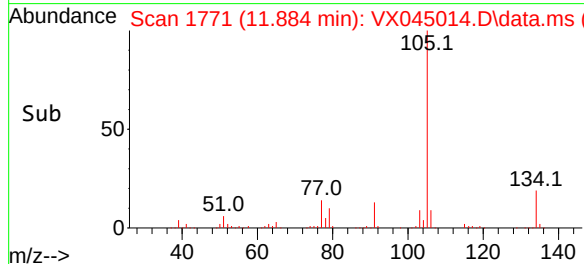
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:105 Resp: 119420  
Ion Ratio Lower Upper  
105 100  
134 19.2 0.0 39.0

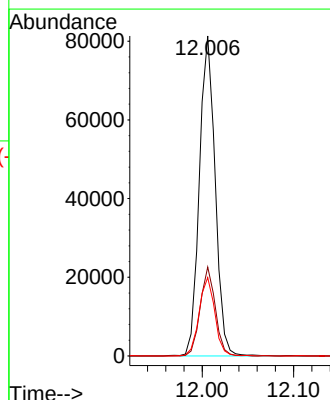
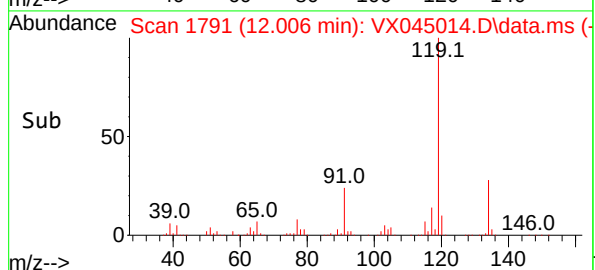
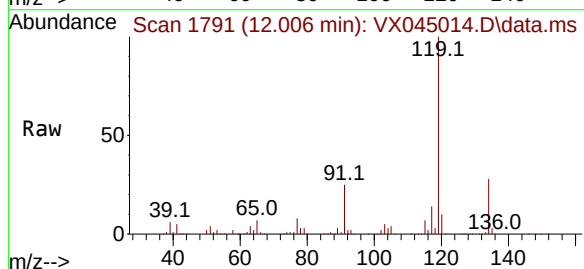
Manual Integrations  
APPROVED

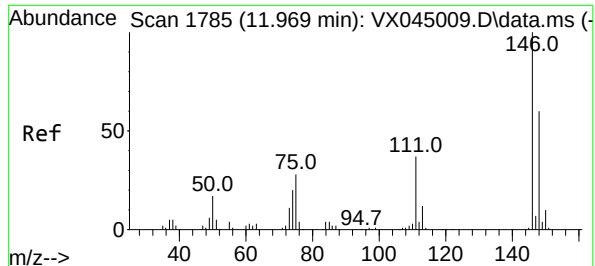
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#82  
p-Isopropyltoluene  
Concen: 18.616 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

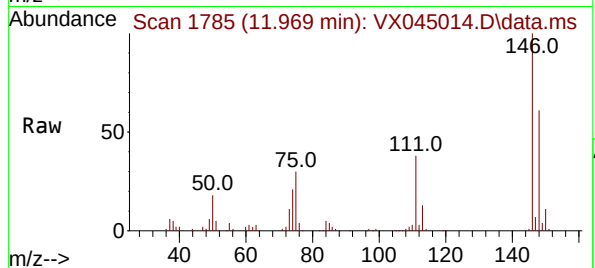
Tgt Ion:119 Resp: 97575  
Ion Ratio Lower Upper  
119 100  
134 26.5 0.0 52.6  
91 24.4 0.0 51.0





#83  
1,3-Dichlorobenzene  
Concen: 18.234 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

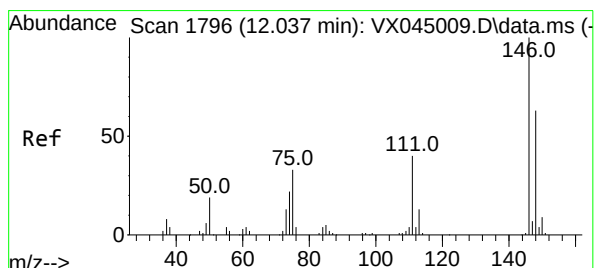
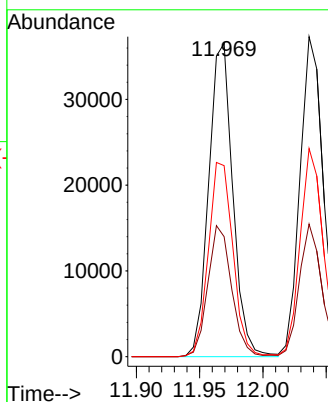
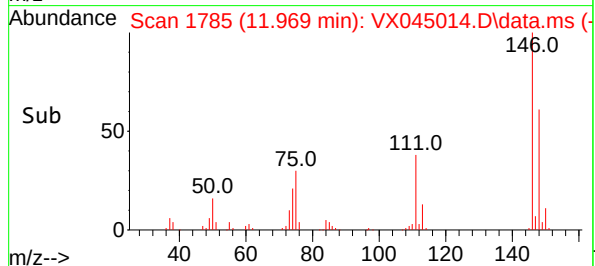
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125



Tgt Ion:146 Resp: 48430  
Ion Ratio Lower Upper  
146 100  
111 41.5 20.2 60.5  
148 63.3 31.2 93.6

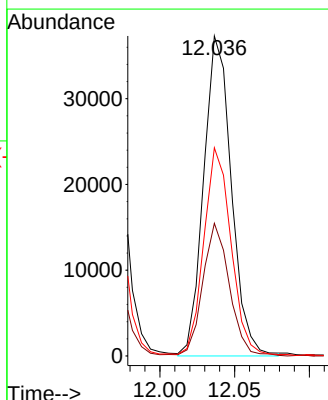
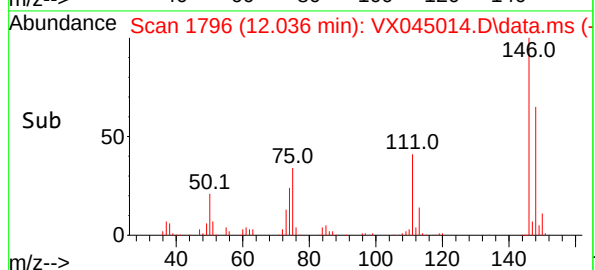
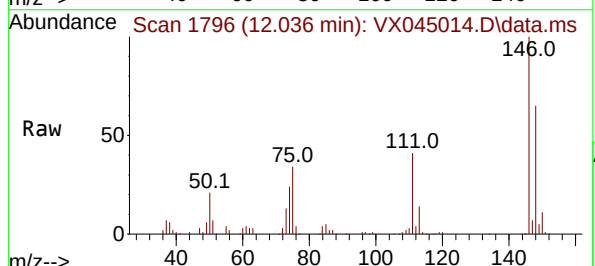
Manual Integrations  
APPROVED

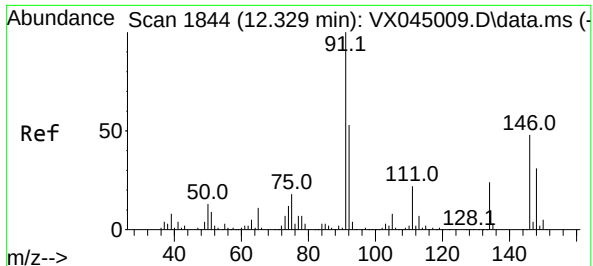
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#84  
1,4-Dichlorobenzene  
Concen: 18.390 ug/l  
RT: 12.036 min Scan# 1796  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion:146 Resp: 48160  
Ion Ratio Lower Upper  
146 100  
111 39.6 20.4 61.2  
148 64.2 31.8 95.4





#85

n-Butylbenzene

Concen: 18.213 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

Tgt Ion: 91 Resp: 87170

Ion Ratio Lower Upper

91 100

92 53.3 0.0 105.2

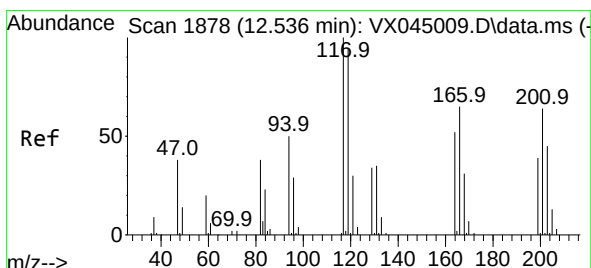
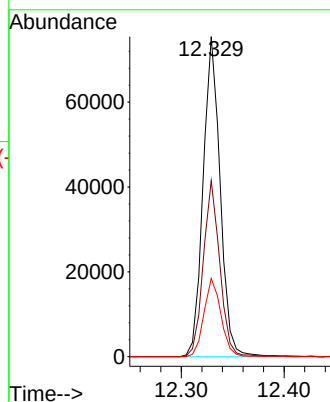
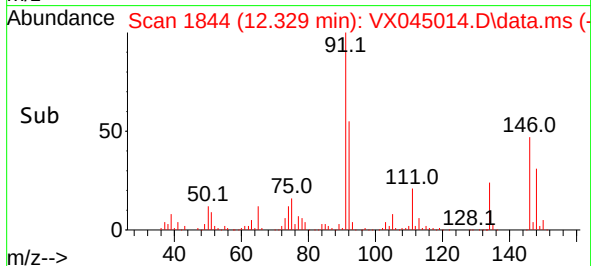
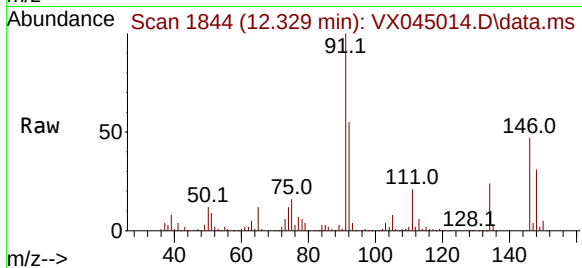
134 24.4 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#86

Hexachloroethane

Concen: 17.309 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045014.D

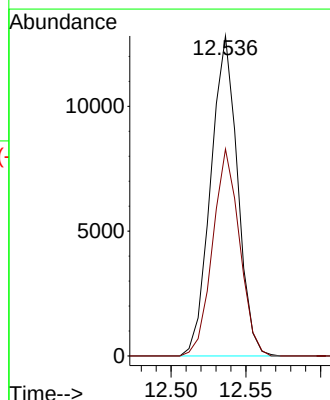
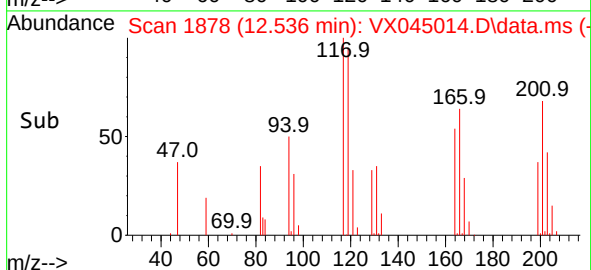
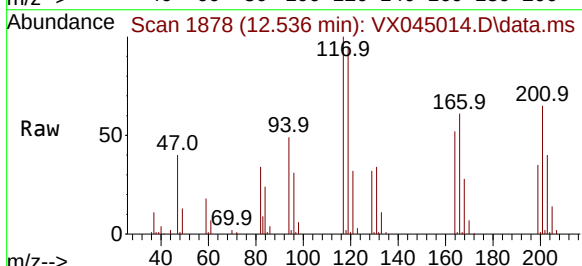
Acq: 21 Feb 2025 13:09

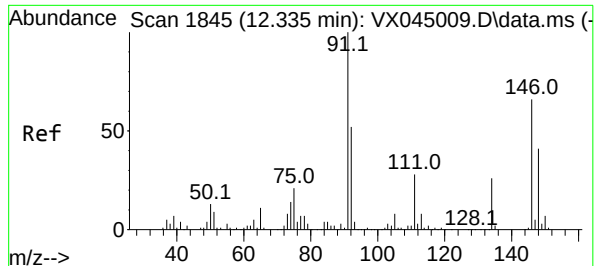
Tgt Ion:117 Resp: 16000

Ion Ratio Lower Upper

117 100

201 64.8 32.6 97.7





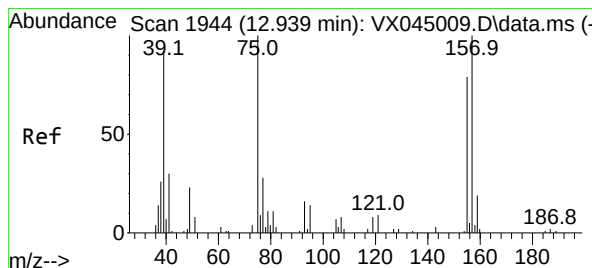
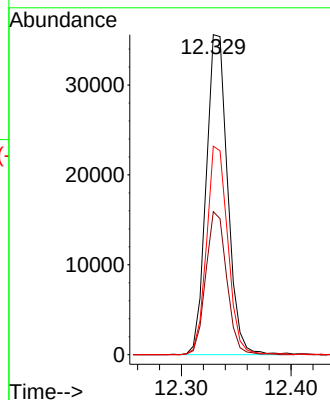
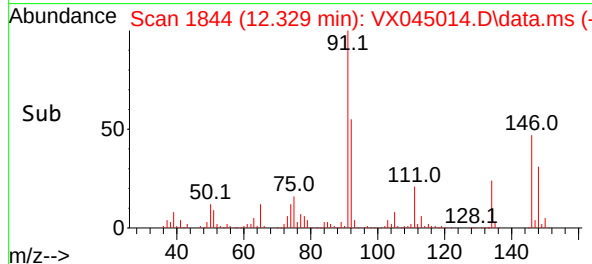
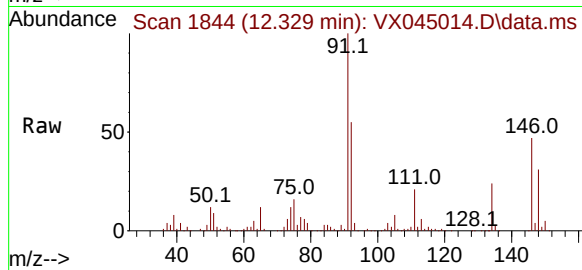
#87  
1,2-Dichlorobenzene  
Concen: 18.513 ug/l  
RT: 12.329 min Scan# 1845  
Delta R.T. -0.006 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX022125

Tgt Ion:146 Resp: 4824  
Ion Ratio Lower Upper  
146 100  
111 43.6 21.7 65.1  
148 64.6 31.8 95.4

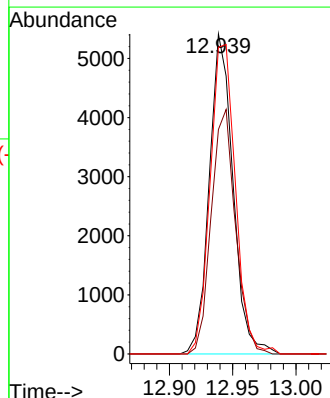
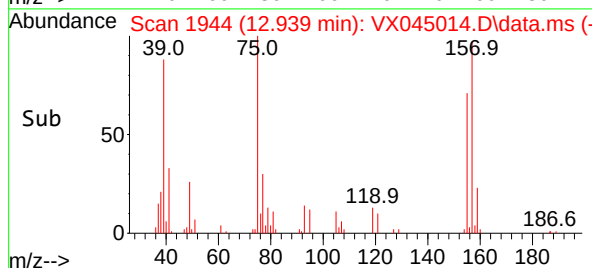
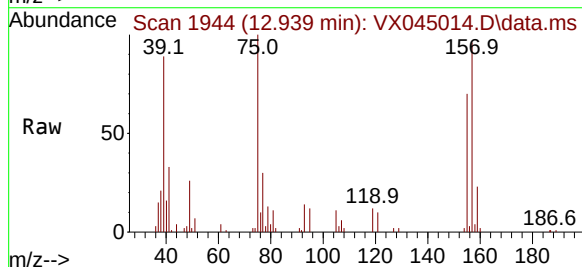
Manual Integrations  
APPROVED

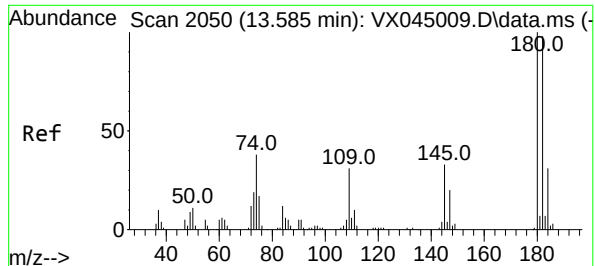
Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 17.893 ug/l  
RT: 12.939 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 7064  
Ion Ratio Lower Upper  
75 100  
155 78.1 66.2 99.4  
157 102.8 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 18.126 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

Instrument :

MSVOA\_X

ClientSampleId :

ICVX022125

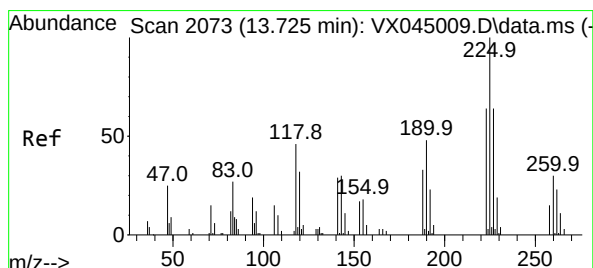
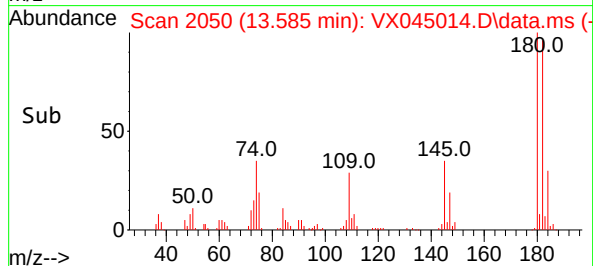
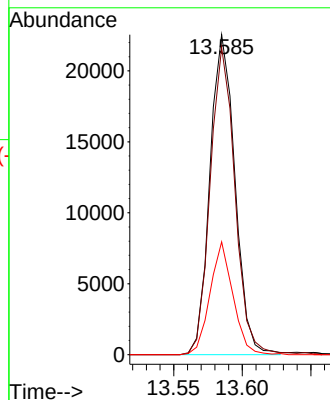
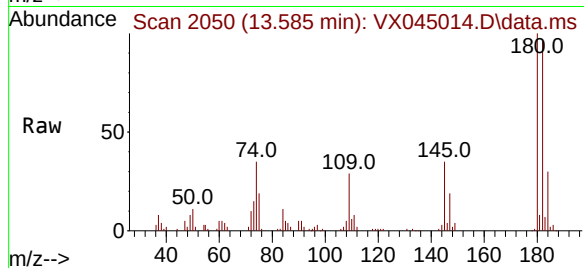
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 28630 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.0  | 77.7  | 116.5 |
| 145       | 32.4  | 25.8  | 38.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/24/2025

Supervised By :Mahesh Dadoda 02/24/2025



#90

Hexachlorobutadiene

Concen: 18.726 ug/l

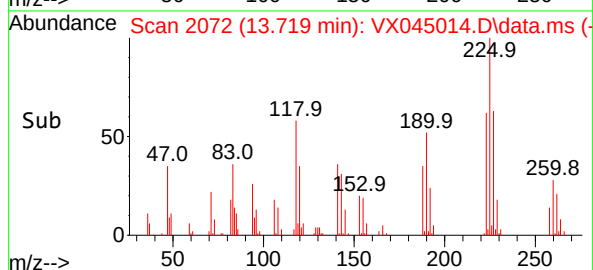
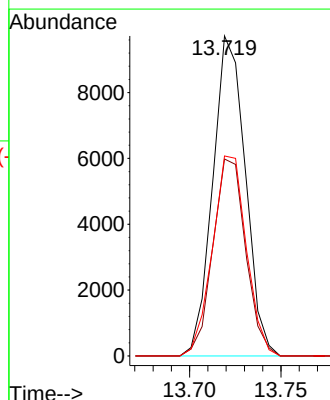
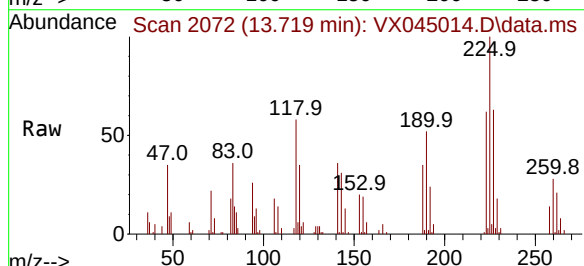
RT: 13.719 min Scan# 2072

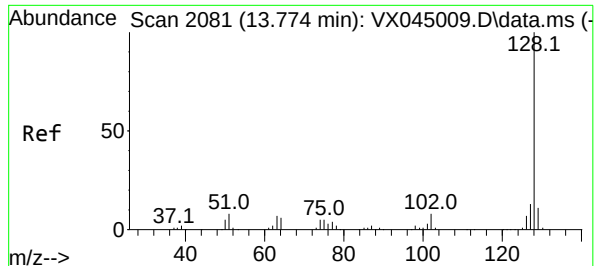
Delta R.T. -0.006 min

Lab File: VX045014.D

Acq: 21 Feb 2025 13:09

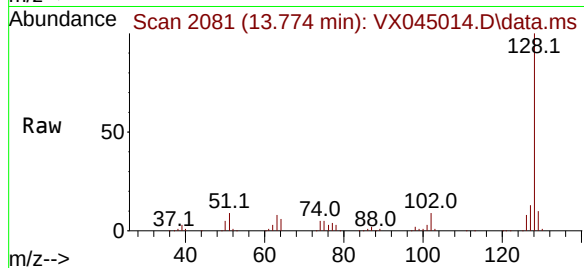
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 12062 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 62.1  | 0.0   | 123.4 |
| 227       | 64.9  | 0.0   | 127.4 |





#91  
Naphthalene  
Concen: 18.271 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

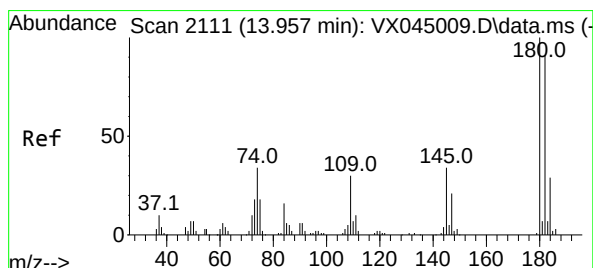
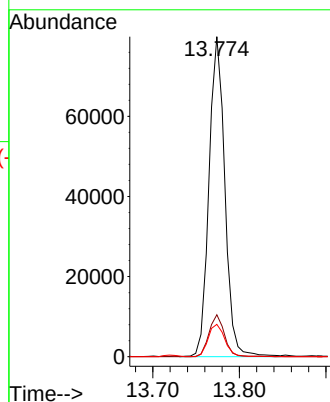
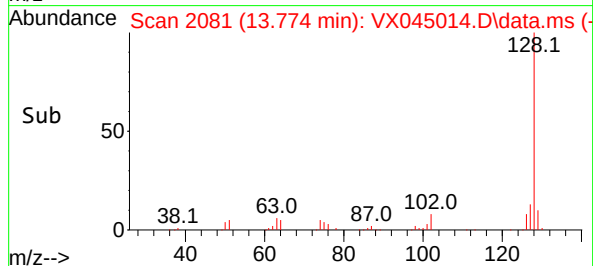
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX022125



Tgt Ion:128 Resp: 101750  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.5 15.7  
129 10.5 8.7 13.1

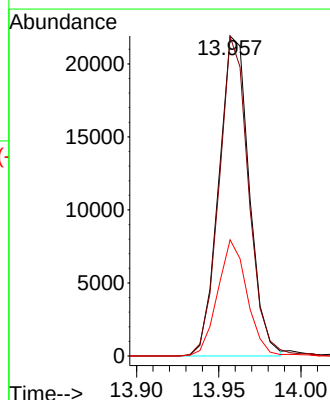
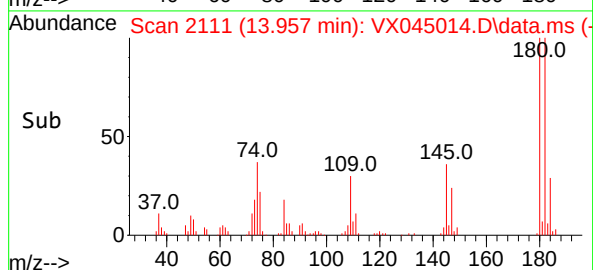
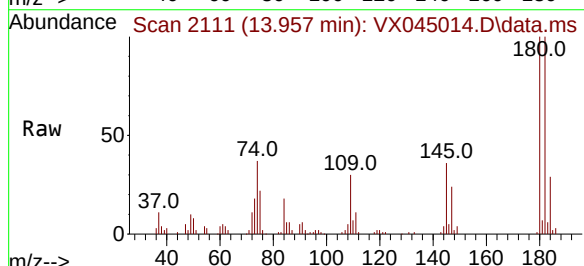
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/24/2025  
Supervised By :Mahesh Dadoda 02/24/2025



#92  
1,2,3-Trichlorobenzene  
Concen: 17.312 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX045014.D  
Acq: 21 Feb 2025 13:09

Tgt Ion:180 Resp: 28151  
Ion Ratio Lower Upper  
180 100  
182 97.1 0.0 186.6  
145 34.9 0.0 68.4





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICSVX022125

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0  | 97    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 2.529 | 2.305 | 8.9  | 90    | 0.00     |
| 3 M  | Chloromethane               | 3.029 | 2.707 | 10.6 | 88    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.923 | 2.543 | 13.0 | 87    | 0.00     |
| 5 M  | Bromomethane                | 1.017 | 0.992 | 2.5  | 98    | 0.00     |
| 6 M  | Chloroethane                | 1.583 | 1.635 | -3.3 | 95    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.928 | 3.495 | 11.0 | 91    | 0.00     |
| 8 T  | Diethyl Ether               | 1.486 | 1.279 | 13.9 | 86    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 2.333 | 2.106 | 9.7  | 93    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 2.279 | 2.061 | 9.6  | 93    | 0.00     |
| 11   | Methyl Iodide               | 2.579 | 2.041 | 20.9 | 91    | 0.00     |
| 12   | Methyl Acetate              | 2.646 | 2.405 | 9.1  | 94    | 0.00     |
| 13 M | Acrolein                    | 0.530 | 0.505 | 4.7  | 103   | 0.00     |
| 14 M | Acrylonitrile               | 1.293 | 1.160 | 10.3 | 90    | 0.00     |
| 15 M | Acetone                     | 0.355 | 0.386 | -8.7 | 106   | 0.00     |
| 16 M | Carbon Disulfide            | 6.464 | 5.784 | 10.5 | 93    | 0.00     |
| 17   | Allyl chloride              | 4.262 | 3.796 | 10.9 | 93    | 0.00     |
| 18 M | Methylene Chloride          | 2.563 | 2.258 | 11.9 | 88    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 2.306 | 2.055 | 10.9 | 91    | 0.00     |
| 20 T | Diisopropyl ether           | 8.191 | 7.311 | 10.7 | 91    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 4.555 | 4.030 | 11.5 | 90    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.763 | 2.445 | 11.5 | 90    | -0.01    |
| 23 M | tert-Butyl Alcohol          | 0.451 | 0.416 | 7.8  | 95    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 7.438 | 6.579 | 11.5 | 91    | 0.00     |
| 25 M | Chloroform                  | 4.400 | 3.947 | 10.3 | 90    | -0.01    |
| 26   | Cyclohexane                 | 4.205 | 3.761 | 10.6 | 90    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.914 | 2.888 | 0.9  | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.552 | 0.496 | 10.1 | 90    | -0.01    |
| 30 M | 2-Butanone                  | 0.319 | 0.307 | 3.8  | 97    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.624 | 0.565 | 9.5  | 94    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.669 | 0.600 | 10.3 | 91    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.564 | 0.510 | 9.6  | 91    | 0.00     |
| 34 M | Benzene                     | 1.731 | 1.559 | 9.9  | 90    | 0.00     |
| 35   | Methacrylonitrile           | 0.341 | 0.313 | 8.2  | 92    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.592 | 0.543 | 8.3  | 91    | 0.00     |
| 37 M | Trichloroethene             | 0.405 | 0.363 | 10.4 | 89    | 0.00     |
| 38   | Methylcyclohexane           | 0.741 | 0.681 | 8.1  | 95    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.430 | 0.374 | 13.0 | 86    | 0.00     |
| 40   | Dibromomethane              | 0.309 | 0.278 | 10.0 | 90    | 0.00     |
| 41 M | Bromodichloromethane        | 0.614 | 0.541 | 11.9 | 89    | 0.00     |
| 42 M | Vinyl Acetate               | 1.237 | 1.113 | 10.0 | 91    | 0.00     |
| 43   | Ethyl Acetate               | 0.598 | 0.510 | 14.7 | 86    | 0.00     |
| 44   | Isopropyl Acetate           | 0.984 | 0.885 | 10.1 | 94    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0  | 90    | 0.00     |
| 46   | Methyl methacrylate         | 0.482 | 0.442 | 8.3  | 95    | 0.00     |
| 47   | n-amyl Acetate              | 0.854 | 0.765 | 10.4 | 93    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.591 | 0.502 | 15.1 | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.670 | 0.586 | 12.5 | 90    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.403 | 0.372 | 7.7  | 90    | 0.00     |
| 51   | Ethyl methacrylate          | 0.633 | 0.566 | 10.6 | 95    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.706 | 0.627 | 11.2 | 87    | 0.00     |
| 53 M | Dibromochloromethane        | 0.445 | 0.392 | 11.9 | 88    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.409 | 0.360 | 12.0 | 88    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.325 | 0.279 | 14.2 | 87    | 0.00     |
| 56 M | Bromoform                   | 0.279 | 0.243 | 12.9 | 92    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.682 | 0.636 | 6.7  | 92    | 0.00     |
| 59 M | 2-Hexanone                  | 0.493 | 0.471 | 4.5  | 95    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.561 | 0.563 | -0.4 | 99    | 0.00     |
| 61 M | Tetrachloroethene           | 0.369 | 0.331 | 10.3 | 89    | 0.00     |
| 62 M | Toluene                     | 1.987 | 1.776 | 10.6 | 90    | 0.00     |
| 63 S | Toluene-d8                  | 1.660 | 1.639 | 1.3  | 97    | 0.00     |
| 64 M | Chlorobenzene               | 1.231 | 1.105 | 10.2 | 90    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.406 | 0.353 | 13.1 | 88    | 0.00     |
| 66 M | Ethyl Benzene               | 2.176 | 1.971 | 9.4  | 93    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.811 | 0.734 | 9.5  | 89    | 0.00     |
| 68 M | o-Xylene                    | 0.795 | 0.729 | 8.3  | 90    | 0.00     |
| 69 M | Styrene                     | 1.328 | 1.188 | 10.5 | 89    | 0.00     |
| 70   | Isopropylbenzene            | 2.053 | 1.859 | 9.4  | 90    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.675 | 0.619 | 8.3  | 92    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.555 | 0.504 | 9.2  | 92    | 0.00     |
| 73   | Bromobenzene                | 0.473 | 0.430 | 9.1  | 91    | 0.00     |
| 74   | n-propylbenzene             | 2.443 | 2.231 | 8.7  | 92    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.477 | 1.340 | 9.3  | 90    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.693 | 1.578 | 6.8  | 92    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.187 | 0.149 | 20.3 | 92    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.646 | 1.492 | 9.4  | 91    | 0.00     |
| 79   | tert-butylbenzene           | 1.706 | 1.571 | 7.9  | 91    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.696 | 1.562 | 7.9  | 90    | 0.00     |
| 81   | sec-Butylbenzene            | 2.141 | 1.977 | 7.7  | 92    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.735 | 1.615 | 6.9  | 93    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.879 | 0.802 | 8.8  | 91    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.867 | 0.797 | 8.1  | 92    | 0.00     |
| 85   | n-Butylbenzene              | 1.584 | 1.443 | 8.9  | 94    | 0.00     |
| 86 T | Hexachloroethane            | 0.306 | 0.265 | 13.4 | 93    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.863 | 0.798 | 7.5  | 91    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.131 | 0.117 | 10.7 | 96    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.523 | 0.474 | 9.4  | 95    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.213 | 0.200 | 6.1  | 94    | 0.00     |
| 91 M | Naphthalene                 | 1.843 | 1.684 | 8.6  | 93    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.538 | 0.466 | 13.4 | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|---------|------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0  | 97    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.226  | 8.9  | 90    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.873  | 10.6 | 88    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.401  | 13.0 | 87    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 19.506  | 2.5  | 98    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 20.662  | -3.3 | 95    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 17.793  | 11.0 | 91    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 17.214  | 13.9 | 86    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 18.055  | 9.7  | 93    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.088  | 9.6  | 93    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.827  | 20.9 | 91    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 18.176  | 9.1  | 94    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 95.190  | 4.8  | 103   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 89.730  | 10.3 | 90    | 0.00     |
| 15 M | Acetone                     | 100.000 | 108.932 | -8.9 | 106   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 17.896  | 10.5 | 93    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 17.812  | 10.9 | 93    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 17.621  | 11.9 | 88    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.825  | 10.9 | 91    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 17.850  | 10.7 | 91    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 17.693  | 11.5 | 90    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 17.695  | 11.5 | 90    | -0.01    |
| 23 M | tert-Butyl Alcohol          | 100.000 | 92.286  | 7.7  | 95    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 17.690  | 11.5 | 91    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 17.943  | 10.3 | 90    | -0.01    |
| 26   | Cyclohexane                 | 20.000  | 17.890  | 10.5 | 90    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 29.736  | 0.9  | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0  | 98    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.969  | 10.2 | 90    | -0.01    |
| 30 M | 2-Butanone                  | 100.000 | 96.206  | 3.8  | 97    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.104  | 9.5  | 94    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 17.945  | 10.3 | 91    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 18.080  | 9.6  | 91    | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.013  | 9.9  | 90    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.343  | 8.3  | 92    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.316  | 8.4  | 91    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 17.933  | 10.3 | 89    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.370  | 8.1  | 95    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 17.406  | 13.0 | 86    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.010  | 9.9  | 90    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 17.645  | 11.8 | 89    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 89.973  | 10.0 | 91    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 17.072  | 14.6 | 86    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.994  | 10.0 | 94    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 376.282 | 5.9  | 90    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 18.320  | 8.4  | 95    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 17.920  | 10.4 | 93    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 16.972  | 15.1 | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\X022125\  
 Data File : VX045014.D  
 Acq On : 21 Feb 2025 13:09  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX022125

Quant Time: Feb 22 01:12:33 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|--------|------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 17.491 | 12.5 | 90    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.451 | 7.7  | 90    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.882 | 10.6 | 95    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 17.765 | 11.2 | 87    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 17.620 | 11.9 | 88    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 17.616 | 11.9 | 88    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 85.929 | 14.1 | 87    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 17.412 | 12.9 | 92    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000 | 0.0  | 99    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 93.175 | 6.8  | 92    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 95.501 | 4.5  | 95    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.094 | -0.3 | 99    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 17.908 | 10.5 | 89    | 0.00     |
| 62 M | Toluene                     | 20.000  | 17.876 | 10.6 | 90    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.620 | 1.3  | 97    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 17.942 | 10.3 | 90    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.362 | 13.2 | 88    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.117 | 9.4  | 93    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 36.205 | 9.5  | 89    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.340 | 8.3  | 90    | 0.00     |
| 69 M | Styrene                     | 20.000  | 17.886 | 10.6 | 89    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.117 | 9.4  | 90    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 18.349 | 8.3  | 92    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 18.172 | 9.1  | 92    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 18.218 | 8.9  | 91    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.269 | 8.7  | 92    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.145 | 9.3  | 90    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 18.633 | 6.8  | 92    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 15.964 | 20.2 | 92    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.131 | 9.3  | 91    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.420 | 7.9  | 91    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.423 | 7.9  | 90    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.461 | 7.7  | 92    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.616 | 6.9  | 93    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 18.234 | 8.8  | 91    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.390 | 8.0  | 92    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.213 | 8.9  | 94    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.309 | 13.5 | 93    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.513 | 7.4  | 91    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 17.893 | 10.5 | 96    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.126 | 9.4  | 95    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.726 | 6.4  | 94    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.271 | 8.6  | 93    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 17.312 | 13.4 | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: Q1495 SAS No.: Q1495 SDG No.: Q1495

Instrument ID: MSVOA\_X Calibration Date/Time: 03/14/2025 10:17

Lab File ID: VX045285.D Init. Calib. Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:58 11:29

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND              | RRF   | RRF020 | MIN<br>RRF | %D    | MAX%D |
|-----------------------|-------|--------|------------|-------|-------|
| Benzene               | 1.731 | 1.704  | 0.5        | -1.56 |       |
| Toluene               | 1.987 | 1.976  | 0.4        | -0.55 |       |
| Ethyl Benzene         | 2.176 | 2.166  | 0.1        | -0.46 |       |
| m/p-Xylenes           | 0.811 | 0.799  | 0.3        | -1.48 |       |
| o-Xylene              | 0.795 | 0.783  | 0.3        | -1.51 |       |
| 1,2-Dichloroethane-d4 | 2.914 | 3.149  | 0.01       | 8.06  |       |
| Toluene-d8            | 1.660 | 1.716  | 0.01       | 3.37  |       |
| 4-Bromofluorobenzene  | 0.561 | 0.568  | 0.2        | 1.25  |       |

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\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDC0020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDC0020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.885          | 128  | 16402               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 86549               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 77791               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 51646               | 32.419  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 108.067% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 44147               | 30.362  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.200% |         |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 133493              | 31.019  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 103.400% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 27025               | 19.545  | ug/l   | 98       |
| 3) Chloromethane             | 1.307          | 50   | 29430               | 17.771  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.368          | 62   | 25739               | 16.107  | ug/l   | 99       |
| 5) Bromomethane              | 1.593          | 94   | 11708               | 21.048  | ug/l   | 99       |
| 6) Chloroethane              | 1.673          | 64   | 15010               | 17.343  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 38646               | 17.994  | ug/l   | 95       |
| 8) Diethyl Ether             | 2.130          | 74   | 12991               | 15.986  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 24758               | 19.409  | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.307          | 96   | 23275               | 18.680  | ug/l   | 84       |
| 11) Methyl Iodide            | 2.441          | 142  | 27786               | 19.703  | ug/l   | 96       |
| 12) Methyl Acetate           | 2.703          | 43   | 41826               | 28.908  | ug/l   | 99       |
| 13) Acrolein                 | 2.233          | 56   | 22756               | 78.465  | ug/l   | 97       |
| 14) Acrylonitrile            | 3.056          | 53   | 75382               | 106.663 | ug/l   | 99       |
| 15) Acetone                  | 2.380          | 58   | 21525               | 111.052 | ug/l   | 97       |
| 16) Carbon Disulfide         | 2.502          | 76   | 56436               | 15.969  | ug/l   | 98       |
| 17) Allyl chloride           | 2.654          | 41   | 43404               | 18.625  | ug/l   | 99       |
| 18) Methylene Chloride       | 2.782          | 84   | 27392               | 19.546  | ug/l   | 90       |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 23037               | 18.275  | ug/l   | 98       |
| 20) Diisopropyl ether        | 3.751          | 45   | 83561               | 18.659  | ug/l   | 93       |
| 21) 1,1-Dichloroethane       | 3.599          | 63   | 47024               | 18.881  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.477          | 96   | 27810               | 18.410  | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 2.965          | 59   | 22972               | 93.108  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 76236               | 18.747  | ug/l   | 97       |
| 25) Chloroform               | 5.080          | 83   | 48032               | 19.966  | ug/l   | 100      |
| 26) Cyclohexane              | 5.458          | 56   | 40980               | 17.826  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.684          | 75   | 30547               | 19.187  | ug/l   | 98       |
| 30) 2-Butanone               | 4.550          | 43   | 107633              | 117.046 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 31898               | 17.719  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 39099               | 20.269  | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 5.660          | 117  | 33104               | 20.334  | ug/l   | 94       |
| 34) Benzene                  | 6.032          | 78   | 98293               | 19.687  | ug/l   | 97       |
| 35) Methacrylonitrile        | 4.916          | 41   | 21961               | 22.317  | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 37507               | 21.942  | ug/l # | 86       |
| 37) Trichloroethene          | 7.123          | 130  | 22160               | 18.972  | ug/l   | 96       |
| 38) Methylcyclohexane        | 7.373          | 83   | 39538               | 18.496  | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 7.422          | 63   | 25024               | 20.160  | ug/l   | 98       |
| 40) Dibromomethane           | 7.574          | 93   | 18384               | 20.639  | ug/l   | 98       |
| 41) Bromodichloromethane     | 7.818          | 83   | 35564               | 20.089  | ug/l # | 98       |
| 42) Vinyl Acetate            | 3.715          | 43   | 336824              | 94.389  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.709  | 43   | 35536    | 20.606  | ug/l  | 99       |
| 44) Isopropyl Acetate         | 6.330  | 43   | 57025    | 20.091  | ug/l  | 98       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 10767    | 364.913 | ug/l  | 93       |
| 46) Methyl methacrylate       | 7.690  | 41   | 29283    | 21.040  | ug/l  | 90       |
| 47) n-amyl Acetate            | 10.842 | 43   | 47634    | 19.340  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 30902    | 18.110  | ug/l  | 100      |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 36026    | 18.650  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 24020    | 20.674  | ug/l  | 95       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 35672    | 19.522  | ug/l  | 98       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 42035    | 20.648  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 26379    | 20.529  | ug/l  | 97       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 23922    | 20.276  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 93558    | 99.705  | ug/l  | 100      |
| 56) Bromoform                 | 10.799 | 173  | 16604    | 20.621  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 210011   | 118.678 | ug/l  | 97       |
| 59) 2-Hexanone                | 9.427  | 43   | 151320   | 118.305 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 20203    | 21.091  | ug/l  | 98       |
| 62) Toluene                   | 8.714  | 91   | 102478   | 19.886  | ug/l  | 97       |
| 64) Chlorobenzene             | 10.073 | 112  | 63738    | 19.960  | ug/l  | 95       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 21469    | 20.375  | ug/l  | 99       |
| 66) Ethyl Benzene             | 10.189 | 91   | 112344   | 19.913  | ug/l  | 99       |
| 67) m/p-Xylenes               | 10.299 | 106  | 82923    | 39.449  | ug/l  | 98       |
| 68) o-Xylene                  | 10.640 | 106  | 40626    | 19.698  | ug/l  | 98       |
| 69) Styrene                   | 10.653 | 104  | 67365    | 19.557  | ug/l  | 98       |
| 70) Isopropylbenzene          | 10.957 | 105  | 108381   | 20.364  | ug/l  | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 39996    | 22.853  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 33154m   | 23.032  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 24622    | 20.096  | ug/l  | 98       |
| 74) n-propylbenzene           | 11.299 | 91   | 126506   | 19.974  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 77599    | 20.266  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 88277    | 20.105  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.012 | 75   | 9226     | 19.050  | ug/l  | 73       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 87449    | 20.488  | ug/l  | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 89097    | 20.139  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 86841    | 19.744  | ug/l  | 98       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 112619   | 20.283  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 92660    | 20.597  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.963 | 146  | 44474    | 19.509  | ug/l  | 96       |
| 84) 1,4-Dichlorobenzene       | 12.037 | 146  | 46066    | 20.495  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 80698    | 19.643  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 15467    | 19.495  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 46617    | 20.841  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 7662     | 22.612  | ug/l  | 94       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 25942    | 19.136  | ug/l  | 98       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 11256    | 20.360  | ug/l  | 96       |
| 91) Naphthalene               | 13.774 | 128  | 94674    | 19.806  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 26866    | 19.250  | ug/l  | 99       |

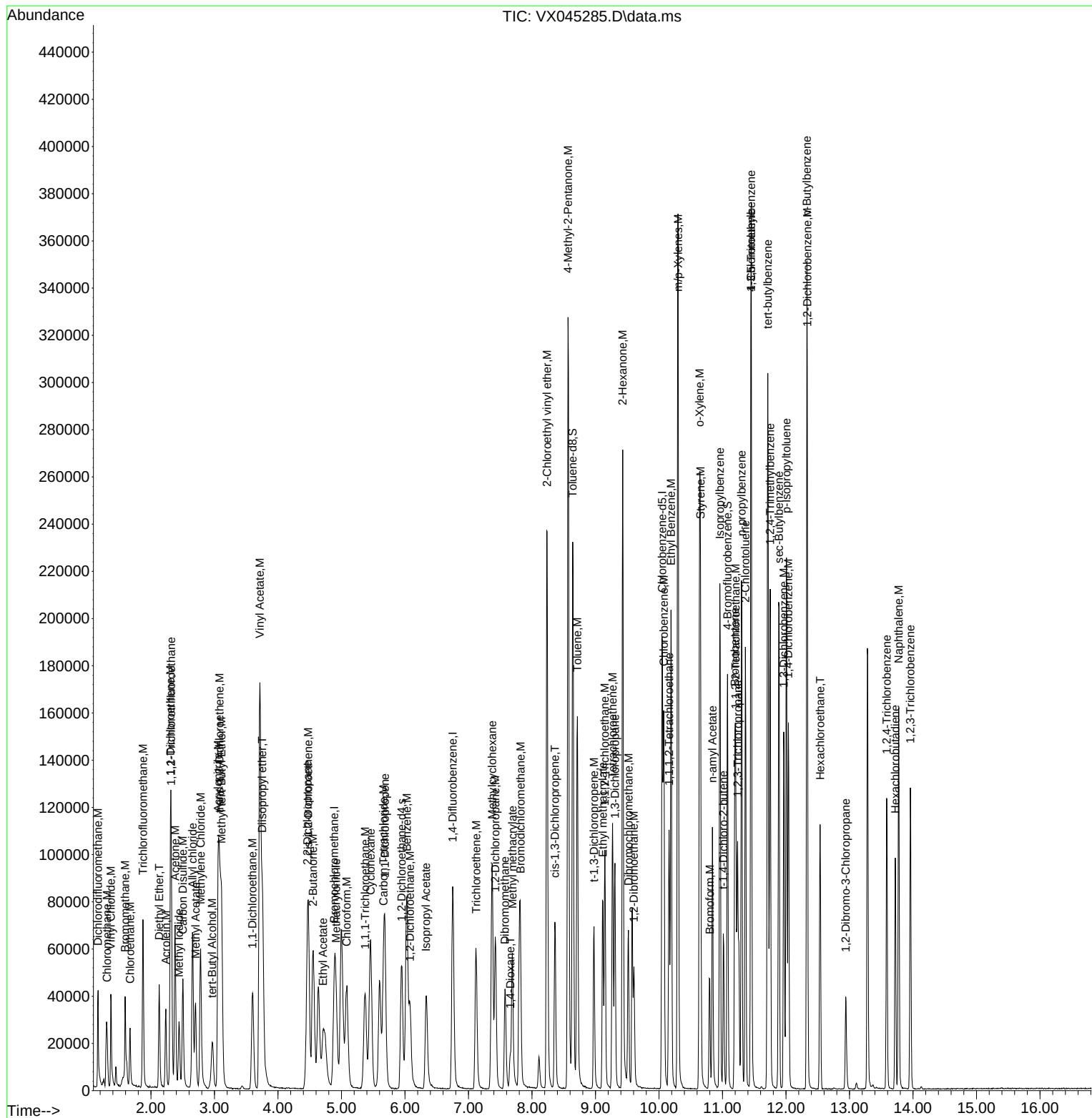
(#) = qualifier out of range (m) = manual integration (+) = signals summed



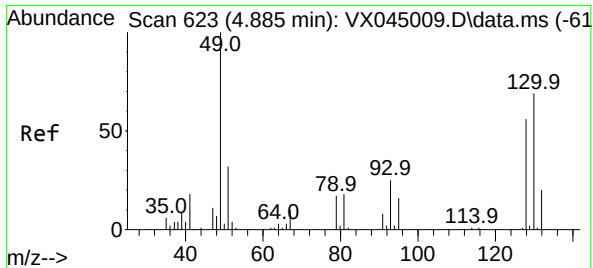
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 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration



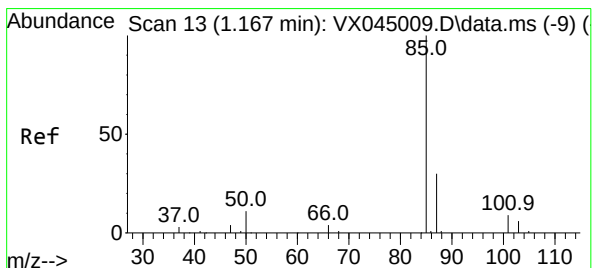
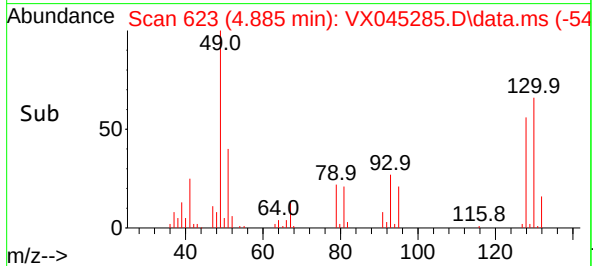
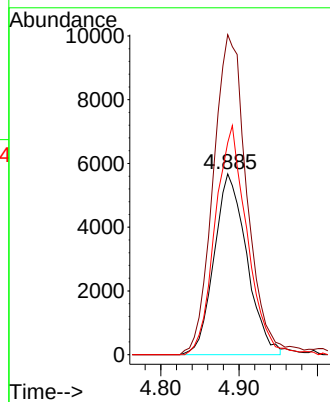
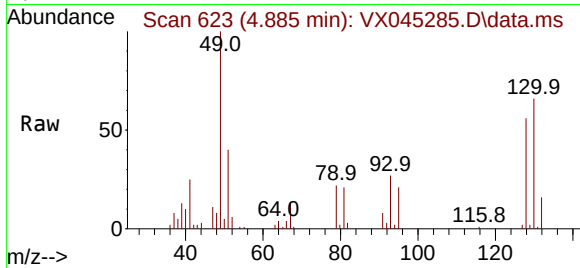




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.885 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

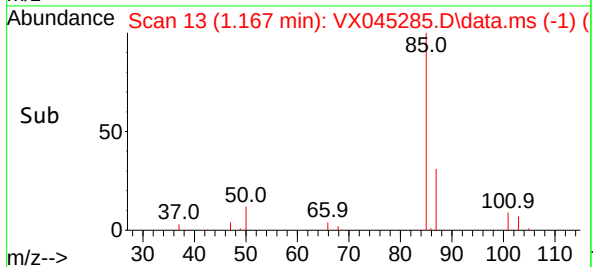
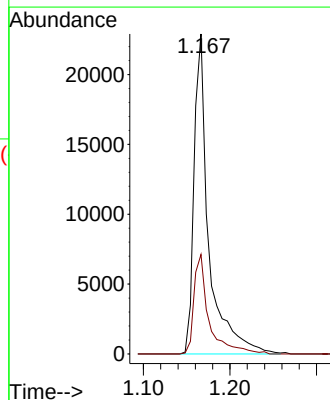
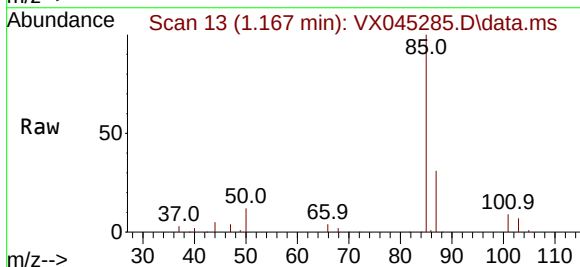
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

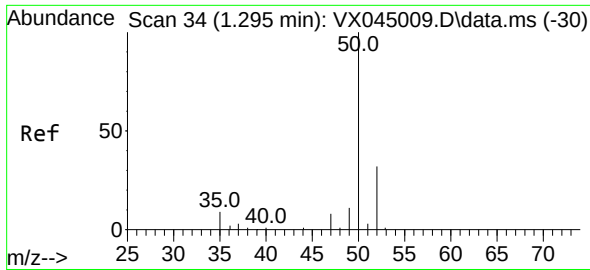
Tgt Ion:128 Resp: 16402  
Ion Ratio Lower Upper  
128 100  
49 181.8 0.0 449.7  
130 124.4 0.0 312.7



#2  
Dichlorodifluoromethane  
Concen: 19.545 ug/l  
RT: 1.167 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 85 Resp: 27025  
Ion Ratio Lower Upper  
85 100  
87 31.1 15.1 45.3

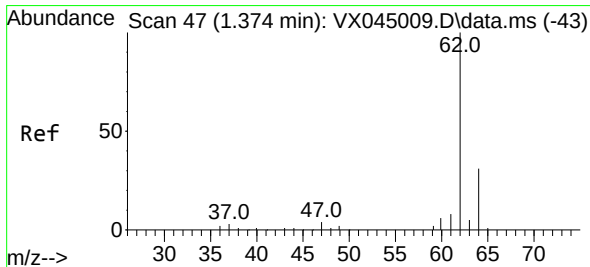
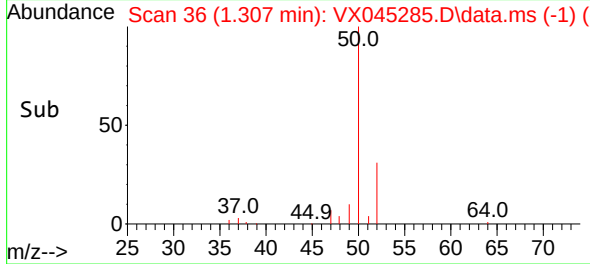
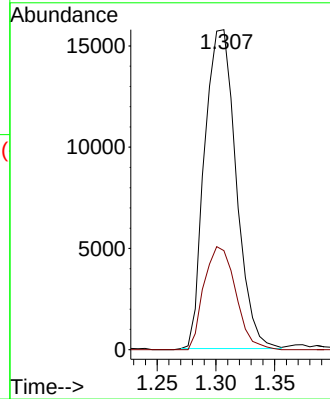
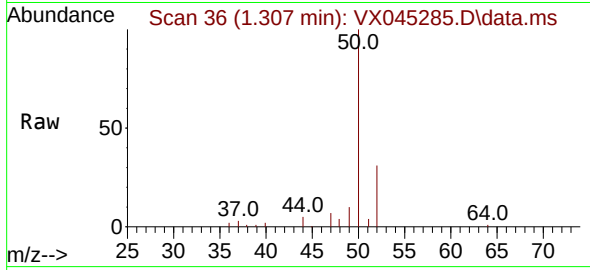




#3  
Chloromethane  
Concen: 17.771 ug/l  
RT: 1.307 min Scan# 30  
Delta R.T. 0.012 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

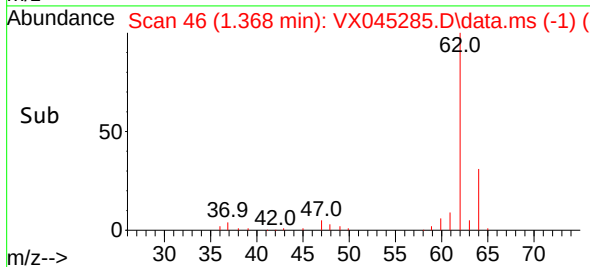
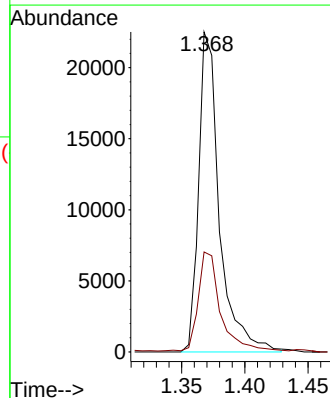
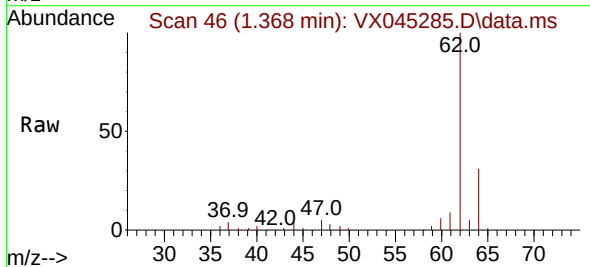
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

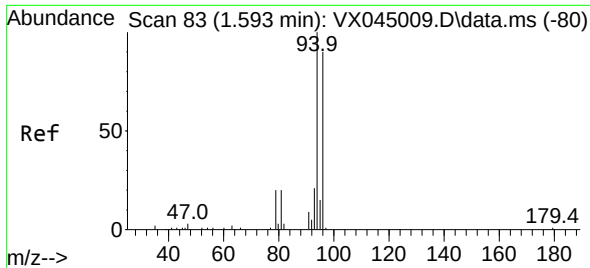
Tgt Ion: 50 Resp: 29430  
Ion Ratio Lower Upper  
50 100  
52 31.1 25.7 38.5



#4  
Vinyl Chloride  
Concen: 16.107 ug/l  
RT: 1.368 min Scan# 46  
Delta R.T. -0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 62 Resp: 25739  
Ion Ratio Lower Upper  
62 100  
64 30.8 25.1 37.7

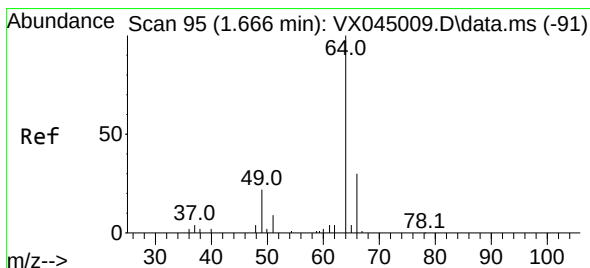
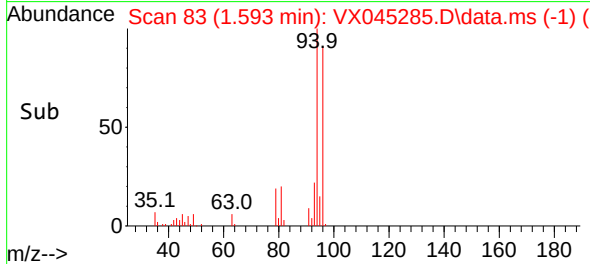
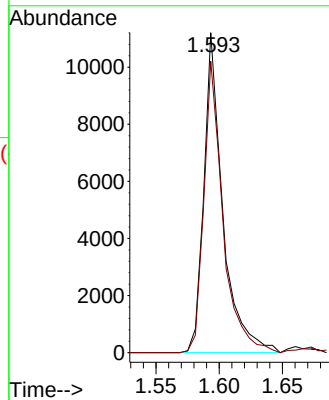
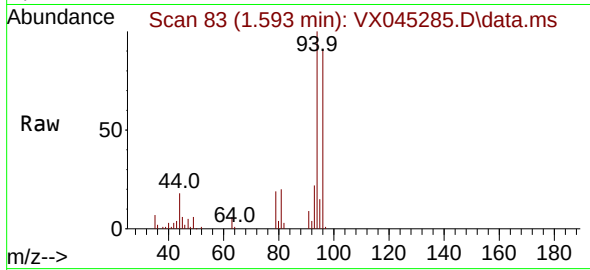




#5  
Bromomethane  
Concen: 21.048 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

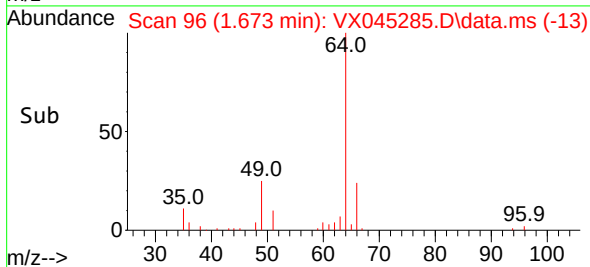
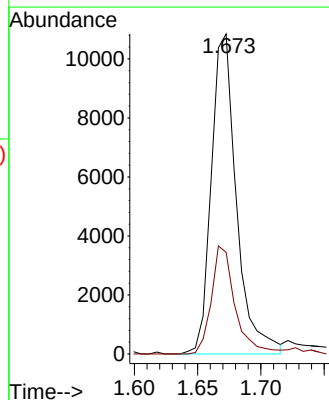
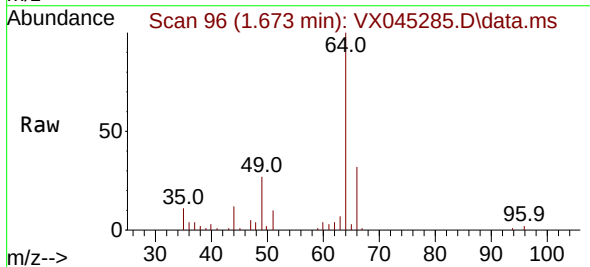
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

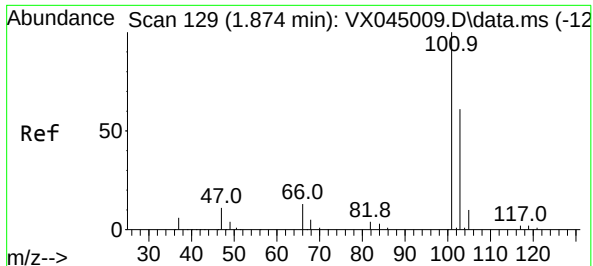
Tgt Ion: 94 Resp: 11708  
Ion Ratio Lower Upper  
94 100  
96 91.0 72.2 108.4



#6  
Chloroethane  
Concen: 17.343 ug/l  
RT: 1.673 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 64 Resp: 15010  
Ion Ratio Lower Upper  
64 100  
66 31.8 23.7 35.5

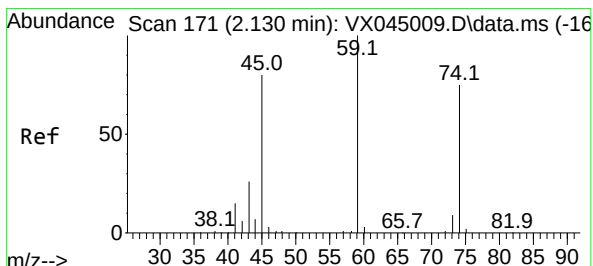
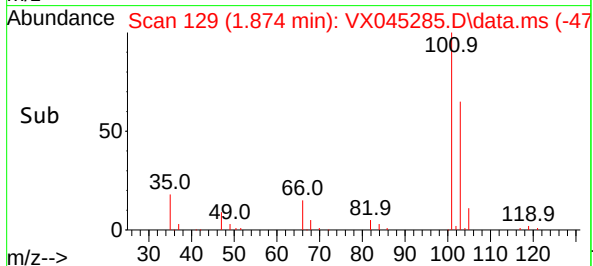
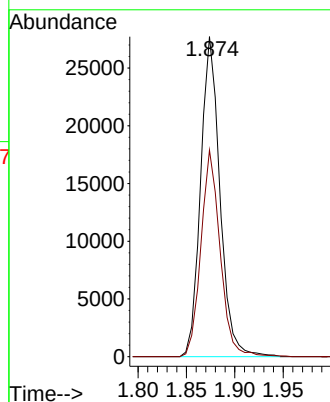
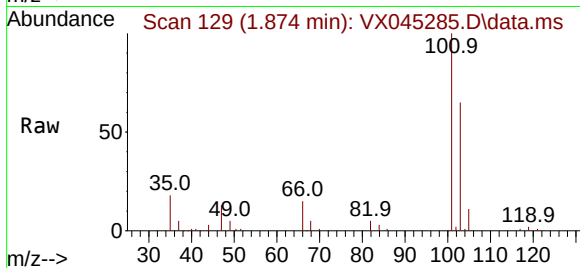




#7  
Trichlorofluoromethane  
Concen: 17.994 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

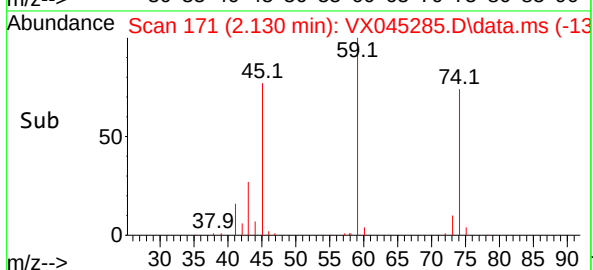
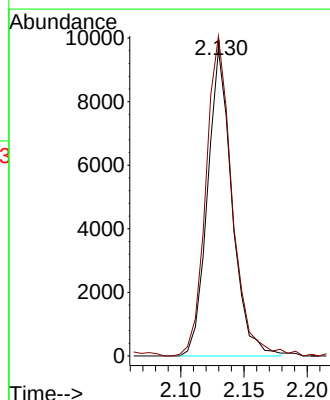
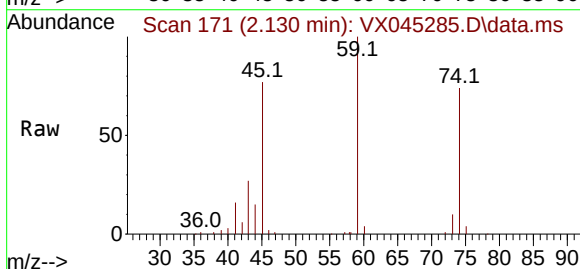
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

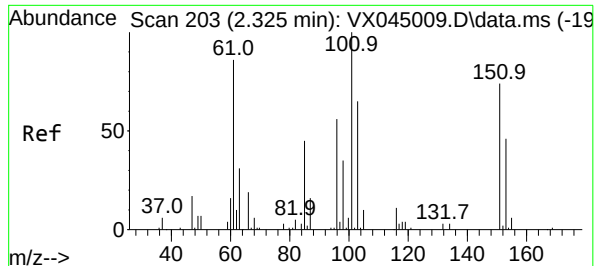
Tgt Ion:101 Resp: 38646  
Ion Ratio Lower Upper  
101 100  
103 64.5 48.8 73.2



#8  
Diethyl Ether  
Concen: 15.986 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 74 Resp: 12991  
Ion Ratio Lower Upper  
74 100  
45 111.8 20.8 186.8

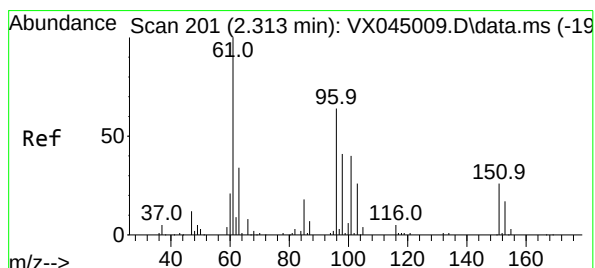
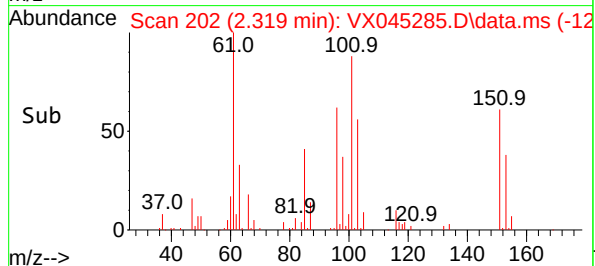
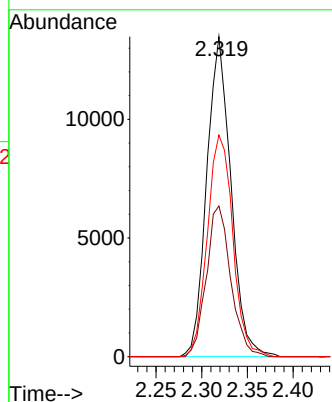
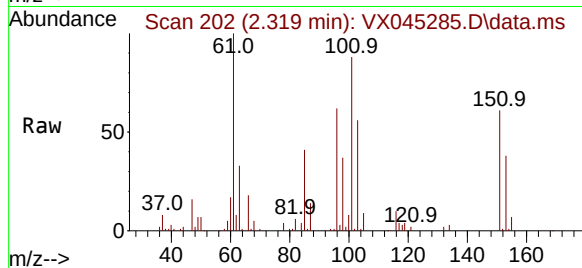




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 19.409 ug/l  
RT: 2.319 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

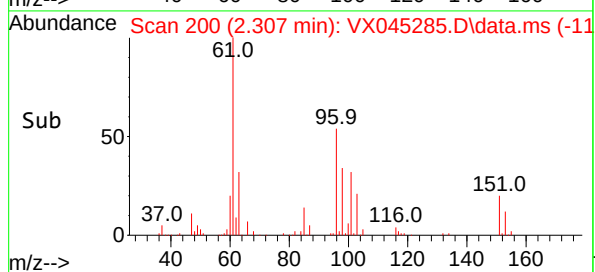
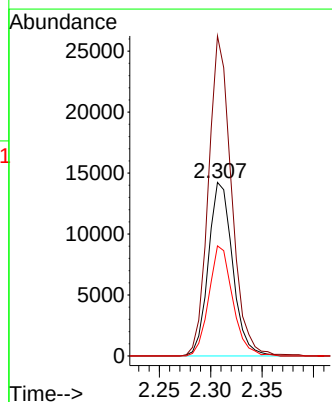
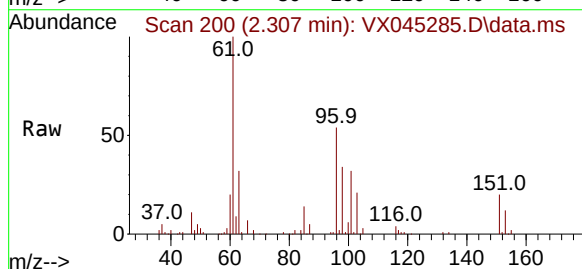
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

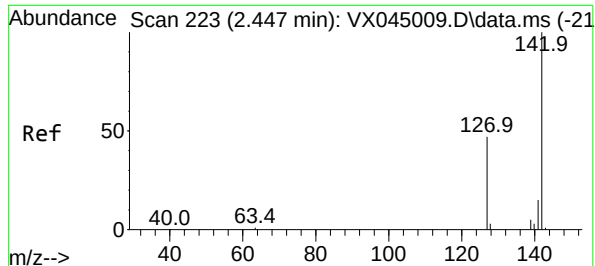
Tgt Ion:101 Resp: 24758  
Ion Ratio Lower Upper  
101 100  
85 47.9 0.0 90.6  
151 73.0 0.0 147.6



#10  
1,1-Dichloroethene  
Concen: 18.680 ug/l  
RT: 2.307 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 96 Resp: 23275  
Ion Ratio Lower Upper  
96 100  
61 184.4 124.2 186.2  
98 63.4 51.1 76.7





#11

Methyl Iodide

Concen: 19.703 ug/l

RT: 2.441 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

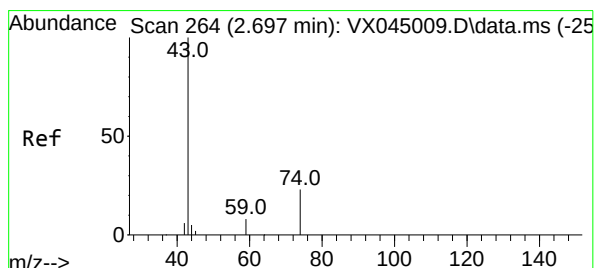
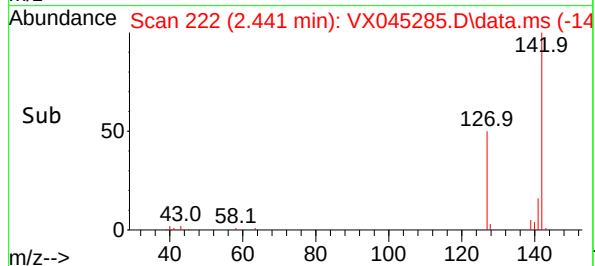
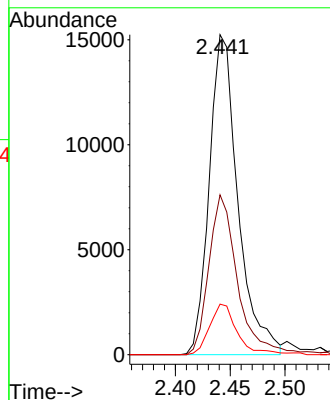
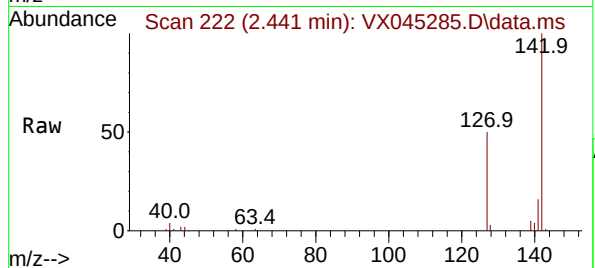
Tgt Ion:142 Resp: 27786

Ion Ratio Lower Upper

142 100

127 49.7 23.3 69.9

141 15.7 7.5 22.6



#12

Methyl Acetate

Concen: 28.908 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX045285.D

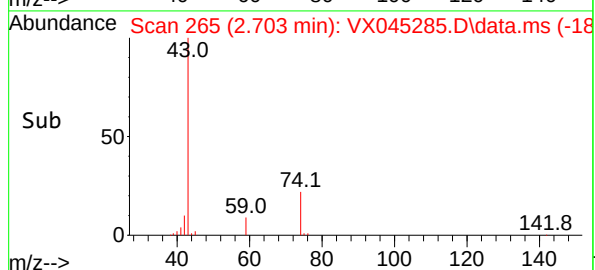
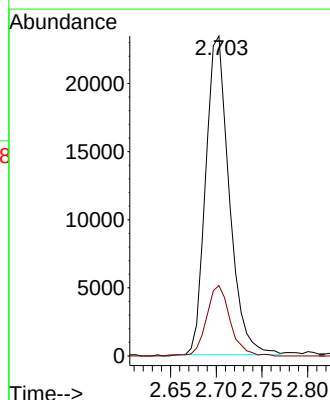
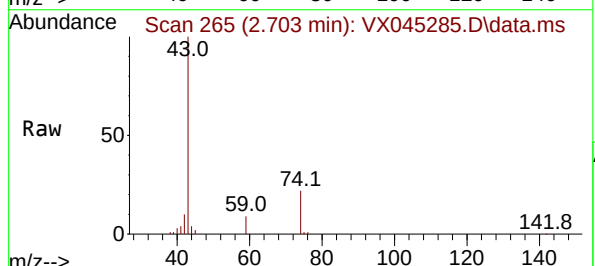
Acq: 14 Mar 2025 10:17

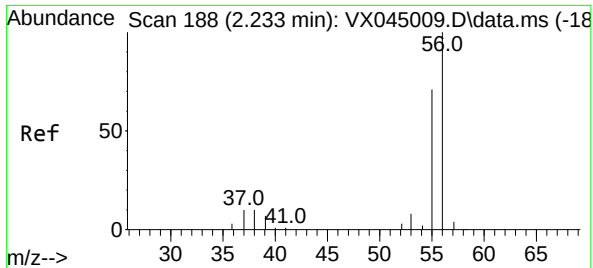
Tgt Ion: 43 Resp: 41826

Ion Ratio Lower Upper

43 100

74 21.9 17.9 26.9





#13

Acrolein

Concen: 78.465 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

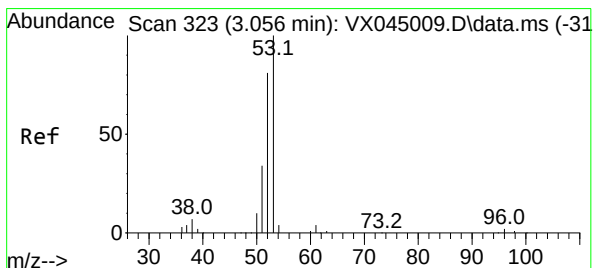
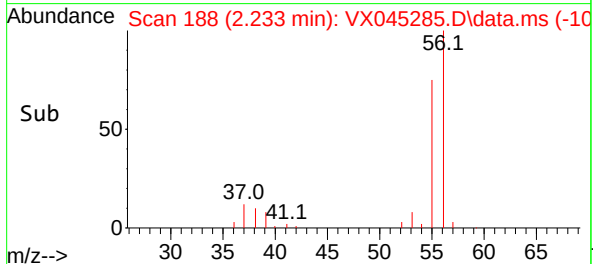
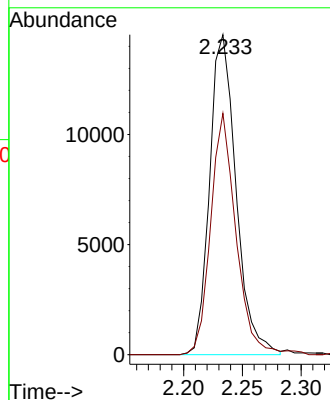
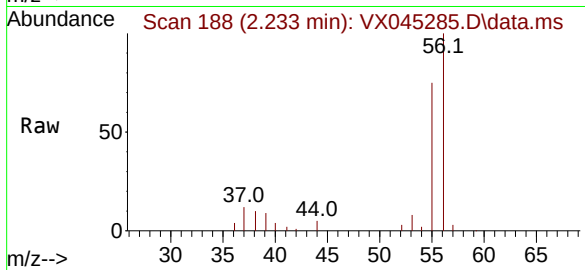
VSTDCCC020

Tgt Ion: 56 Resp: 22756

Ion Ratio Lower Upper

56 100

55 71.7 55.4 83.2



#14

Acrylonitrile

Concen: 106.663 ug/l

RT: 3.056 min Scan# 323

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

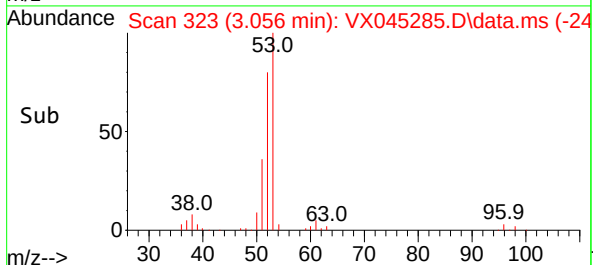
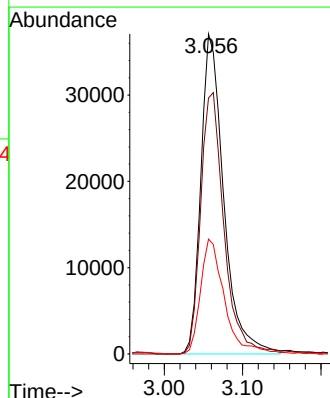
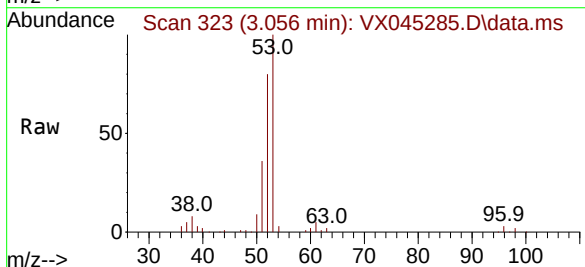
Tgt Ion: 53 Resp: 75382

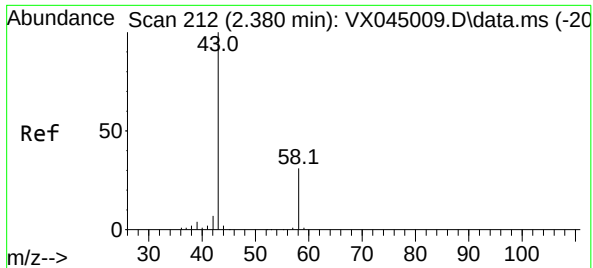
Ion Ratio Lower Upper

53 100

52 83.4 40.9 122.8

51 35.6 18.0 54.0

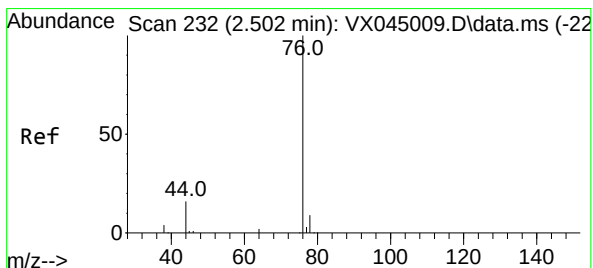
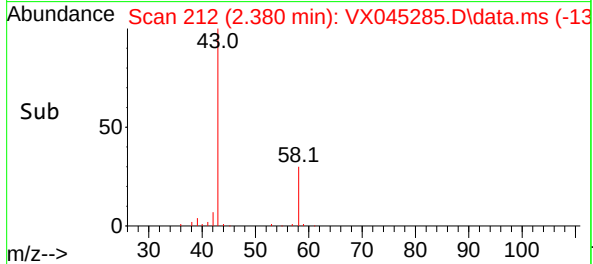
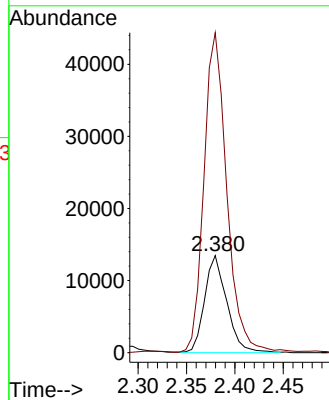
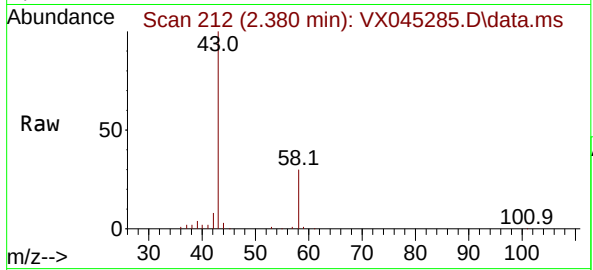




#15  
Acetone  
Concen: 111.052 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

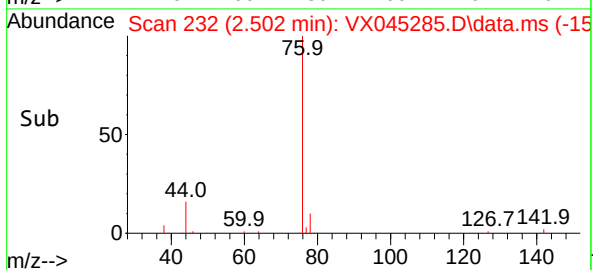
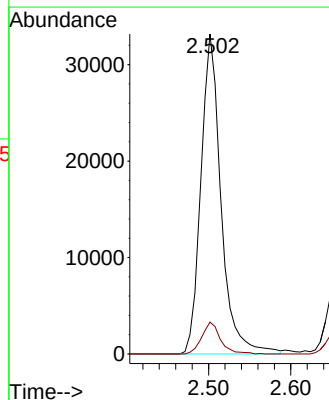
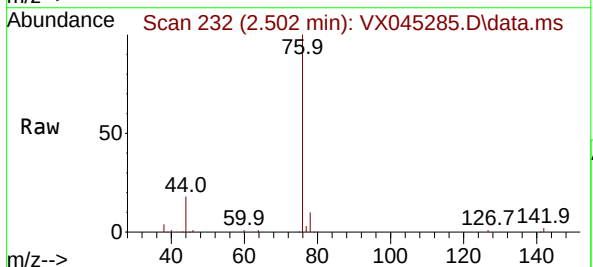
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 58 Resp: 21525  
Ion Ratio Lower Upper  
58 100  
43 330.2 258.6 388.0

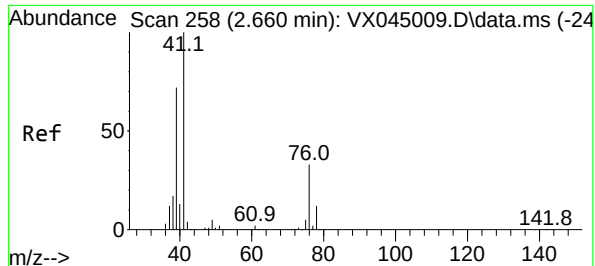


#16  
Carbon Disulfide  
Concen: 15.969 ug/l  
RT: 2.502 min Scan# 232  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 76 Resp: 56436  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.3 10.9







#17

Allyl chloride

Concen: 18.625 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

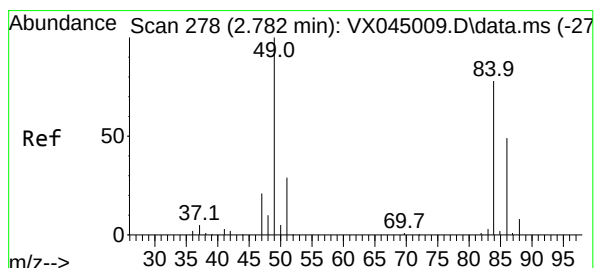
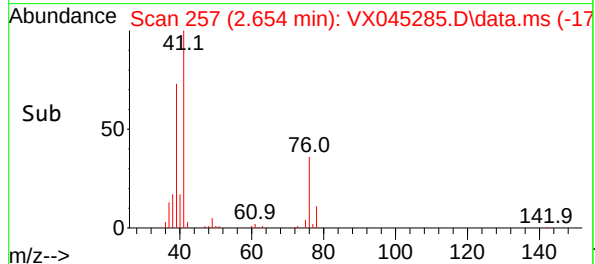
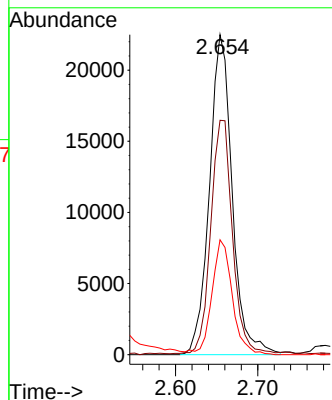
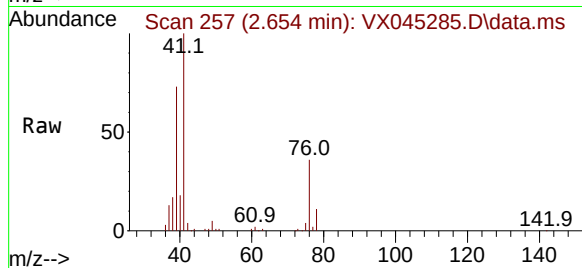
Tgt Ion: 41 Resp: 43404

Ion Ratio Lower Upper

41 100

39 72.8 36.2 108.6

76 35.9 17.2 51.5



#18

Methylene Chloride

Concen: 19.546 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Tgt Ion: 84 Resp: 27392

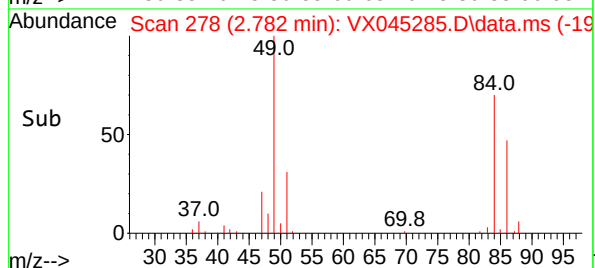
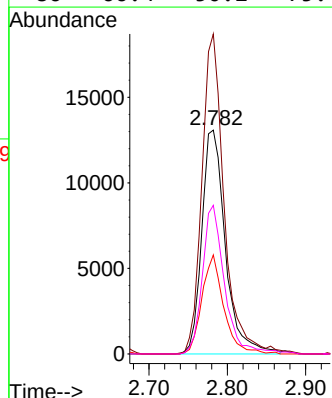
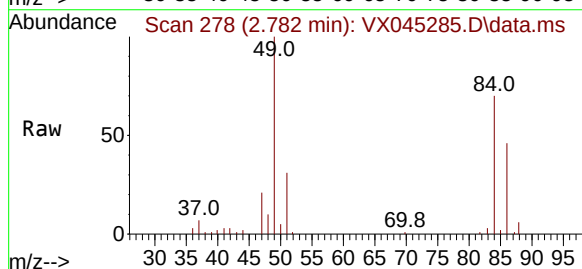
Ion Ratio Lower Upper

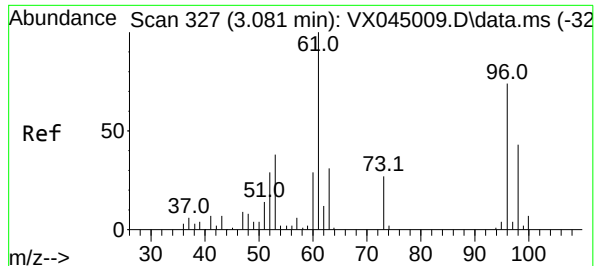
84 100

49 142.5 102.8 154.2

51 44.2 30.1 45.1

86 66.4 50.2 75.4





#19

trans-1,2-Dichloroethene

Concen: 18.275 ug/l

RT: 3.081 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

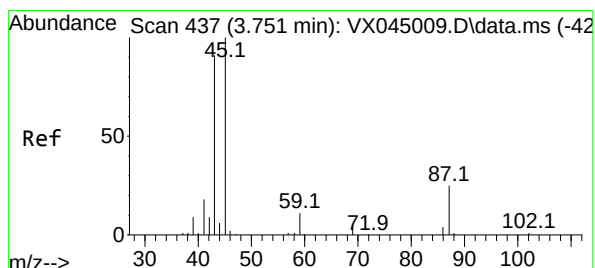
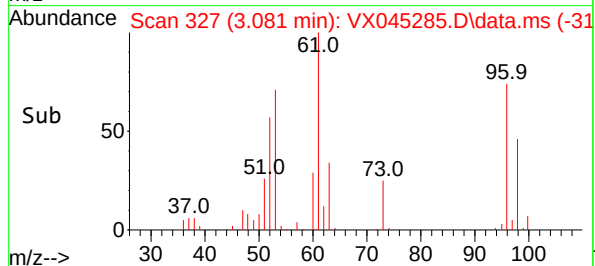
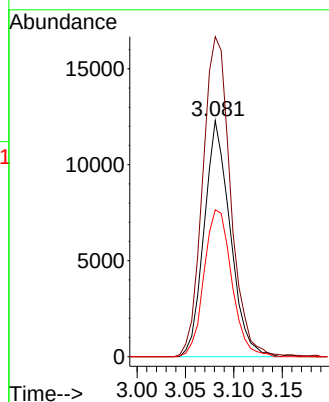
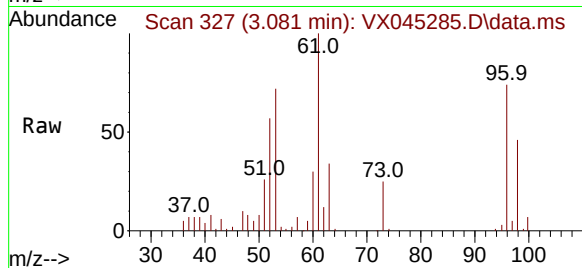
Tgt Ion: 96 Resp: 23037

Ion Ratio Lower Upper

96 100

61 134.8 108.6 163.0

98 62.2 46.5 69.7



#20

Diisopropyl ether

Concen: 18.659 ug/l

RT: 3.751 min Scan# 437

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Tgt Ion: 45 Resp: 83561

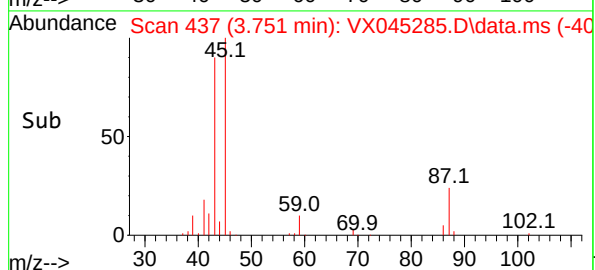
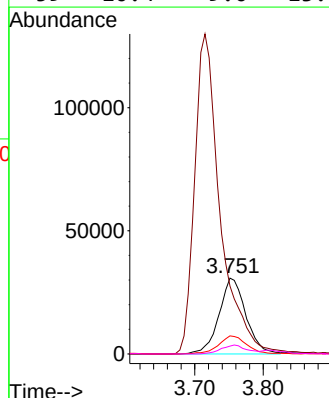
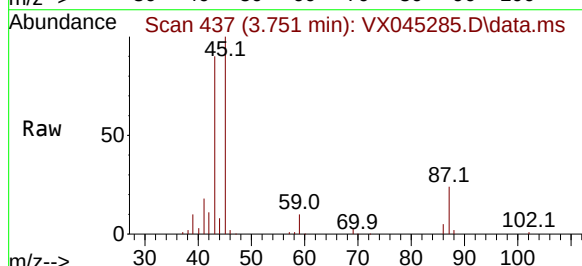
Ion Ratio Lower Upper

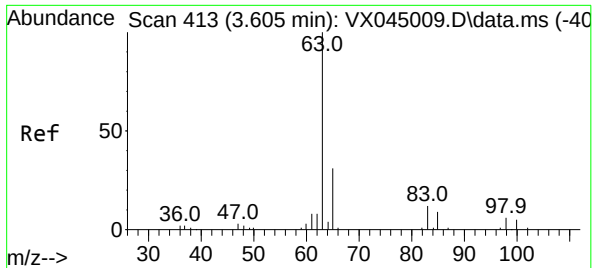
45 100

43 84.9 74.4 111.6

87 23.8 19.8 29.8

59 10.4 9.0 13.4





#21

1,1-Dichloroethane

Concen: 18.881 ug/l

RT: 3.599 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

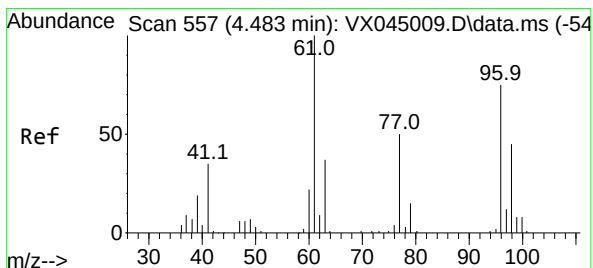
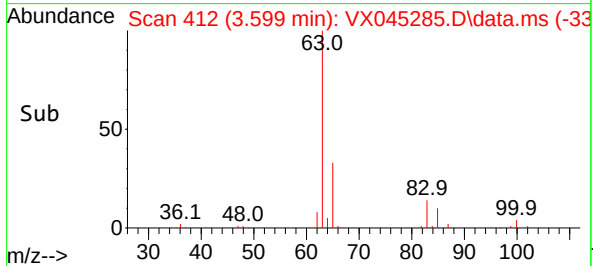
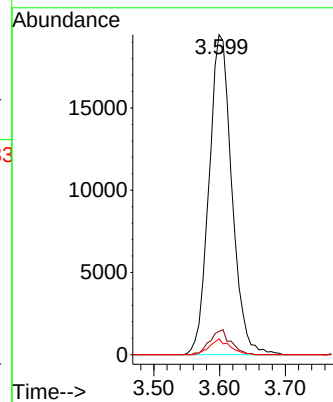
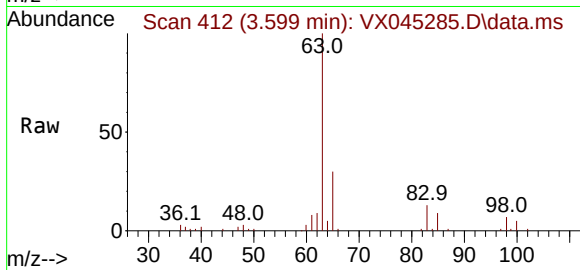
Tgt Ion: 63 Resp: 47024

Ion Ratio Lower Upper

63 100

98 7.3 3.3 9.8

100 5.0 2.4 7.1



#22

cis-1,2-Dichloroethene

Concen: 18.410 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

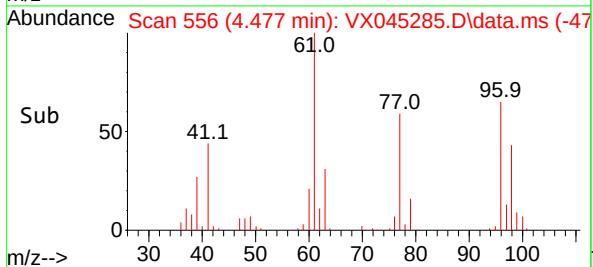
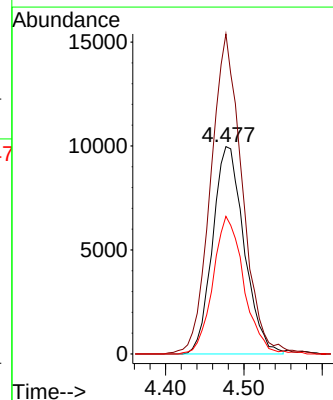
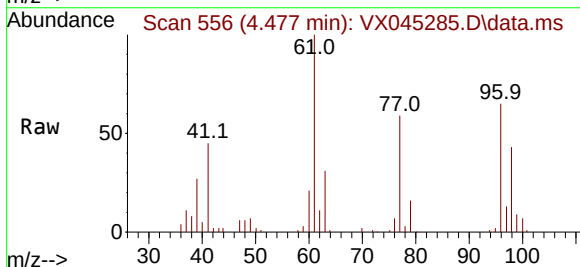
Tgt Ion: 96 Resp: 27810

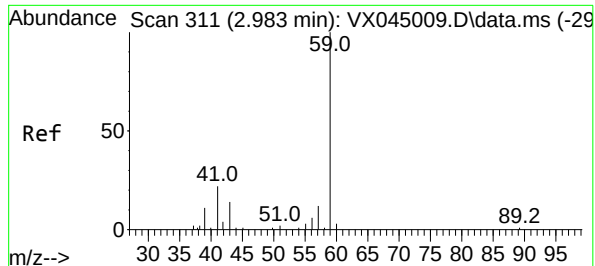
Ion Ratio Lower Upper

96 100

61 152.7 118.9 178.3

98 65.0 50.7 76.1





#23

tert-Butyl Alcohol

Concen: 93.108 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.018 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

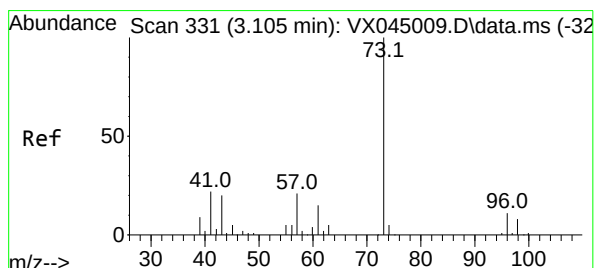
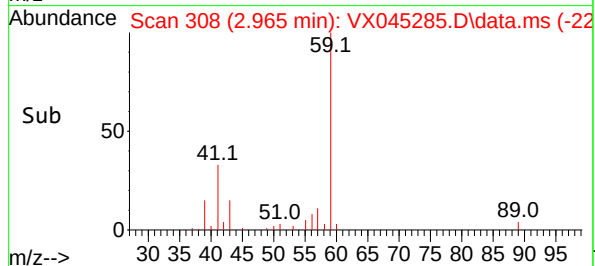
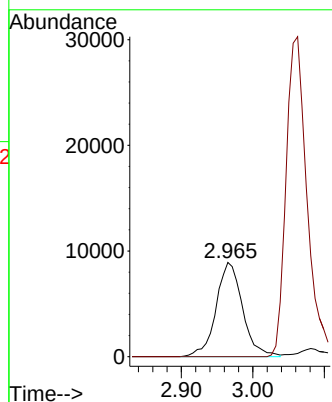
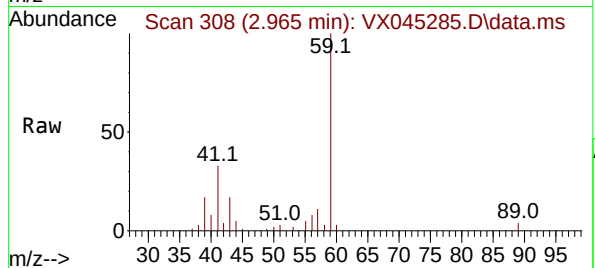
VSTDCCC020

Tgt Ion: 59 Resp: 22972

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#24

Methyl tert-Butyl Ether

Concen: 18.747 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.006 min

Lab File: VX045285.D

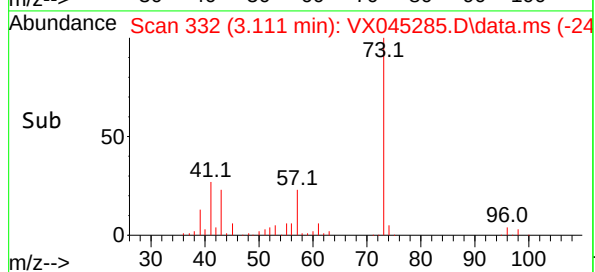
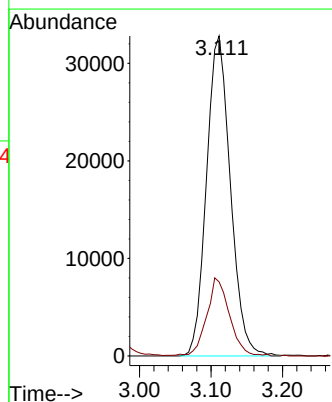
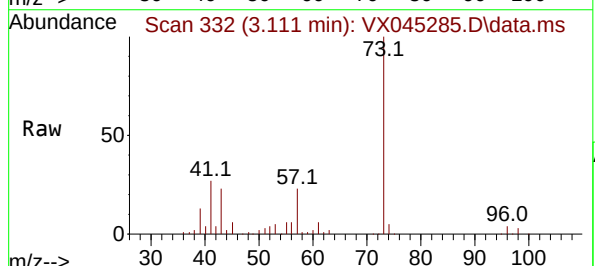
Acq: 14 Mar 2025 10:17

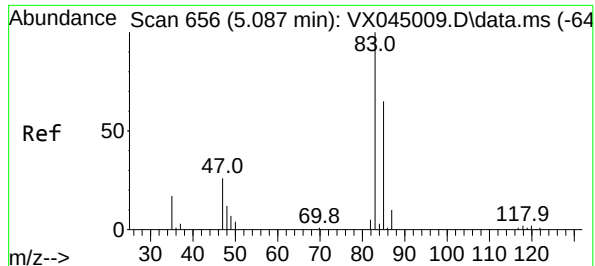
Tgt Ion: 73 Resp: 76236

Ion Ratio Lower Upper

73 100

43 22.9 17.4 26.0





#25

Chloroform

Concen: 19.966 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

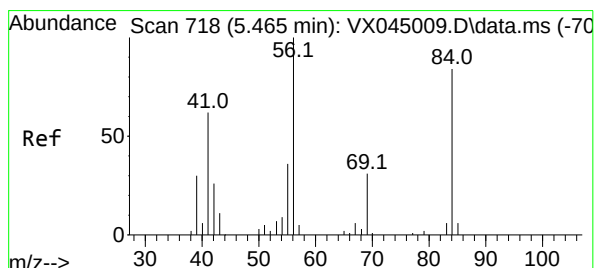
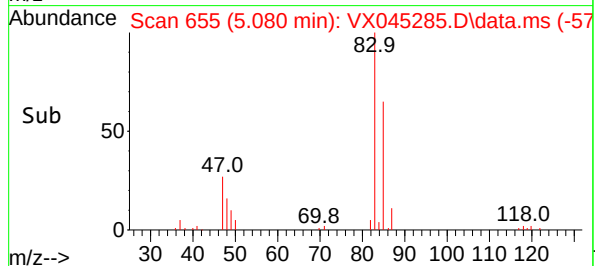
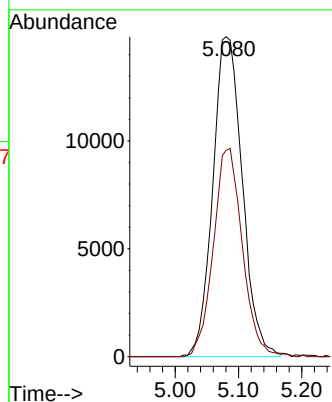
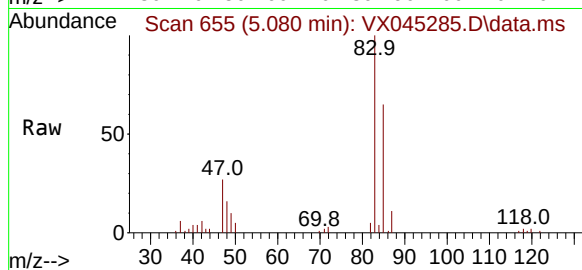
VSTDCCC020

Tgt Ion: 83 Resp: 48032

Ion Ratio Lower Upper

83 100

85 64.5 51.7 77.5



#26

Cyclohexane

Concen: 17.826 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

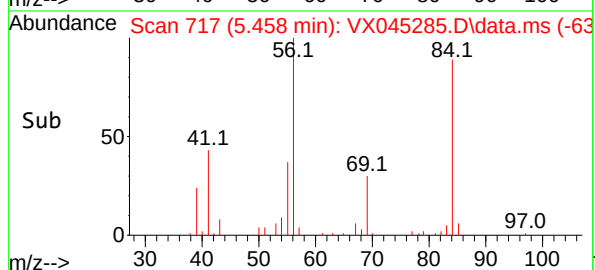
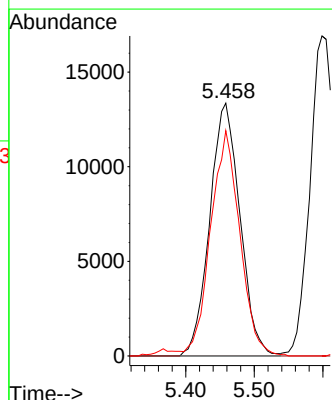
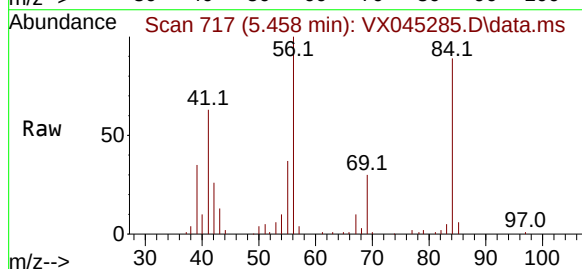
Tgt Ion: 56 Resp: 40980

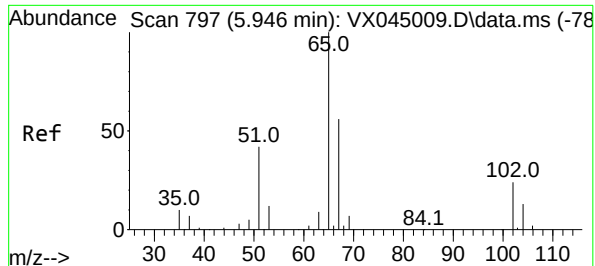
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 84.7 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 32.419 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

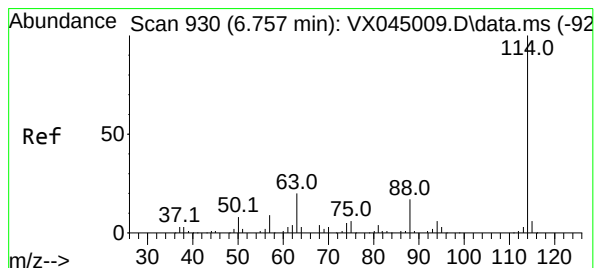
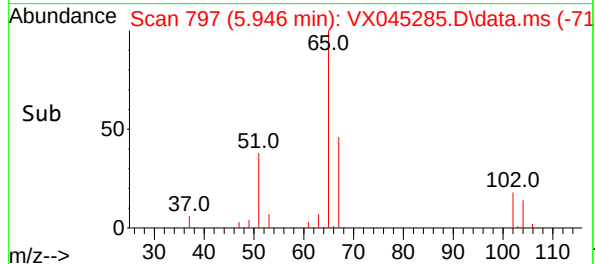
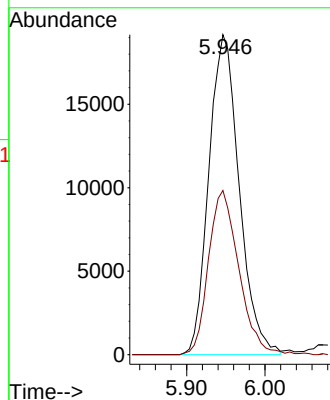
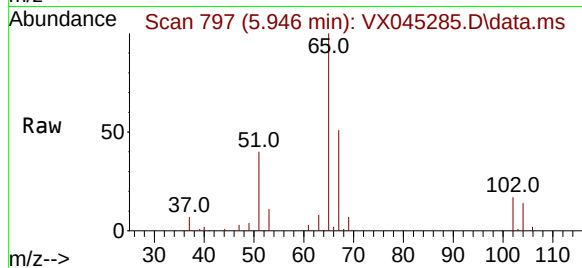
VSTDCCC020

Tgt Ion: 65 Resp: 51646

Ion Ratio Lower Upper

65 100

67 51.2 42.6 64.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

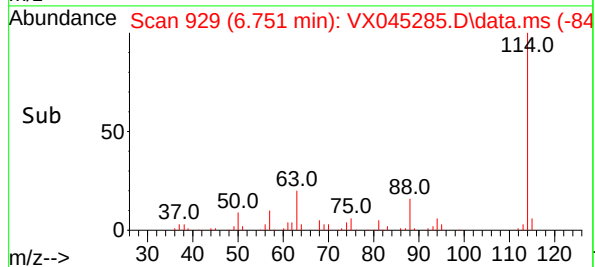
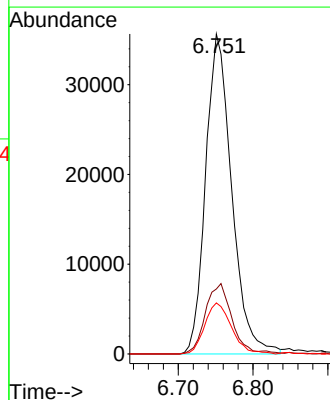
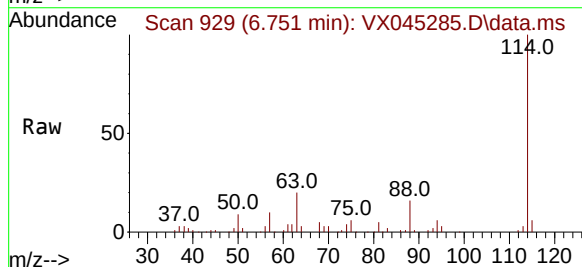
Tgt Ion: 114 Resp: 86549

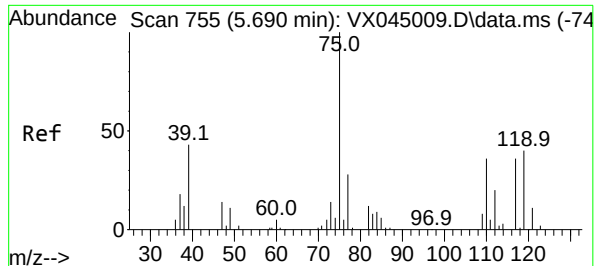
Ion Ratio Lower Upper

114 100

63 21.9 16.8 25.2

88 16.4 12.7 19.1





#29

1,1-Dichloropropene

Concen: 19.187 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

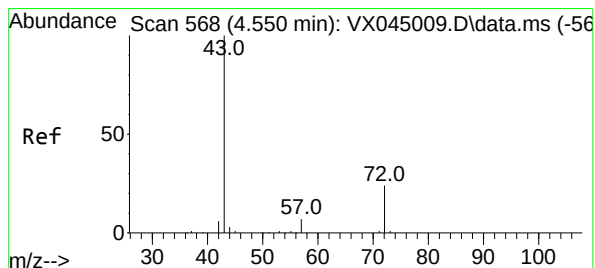
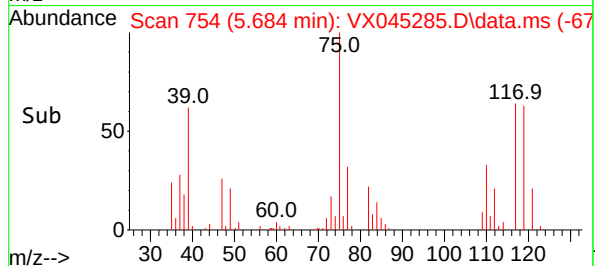
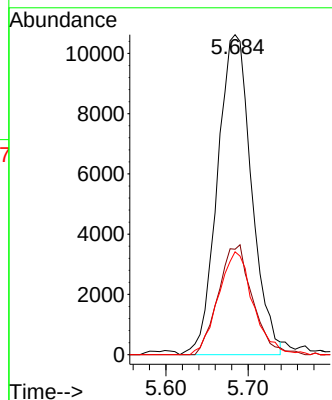
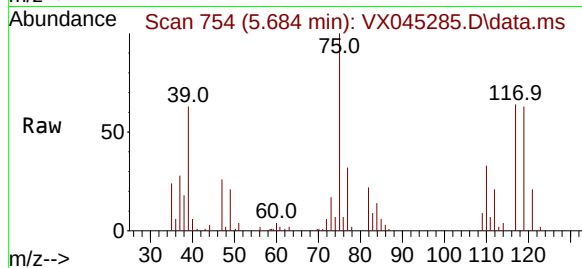
Tgt Ion: 75 Resp: 30547

Ion Ratio Lower Upper

75 100

110 34.3 0.0 69.2

77 32.9 0.0 61.0



#30

2-Butanone

Concen: 117.046 ug/l

RT: 4.550 min Scan# 568

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

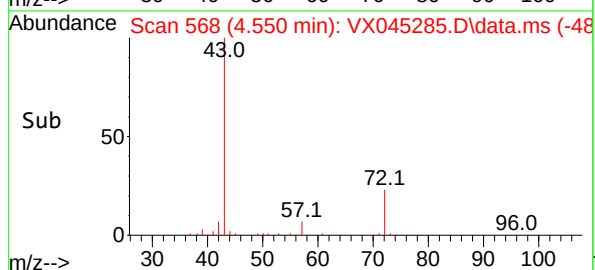
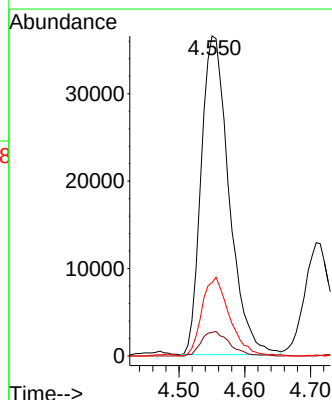
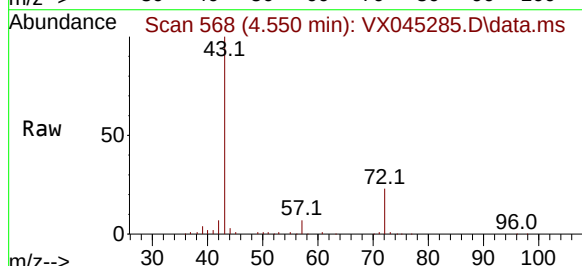
Tgt Ion: 43 Resp: 107633

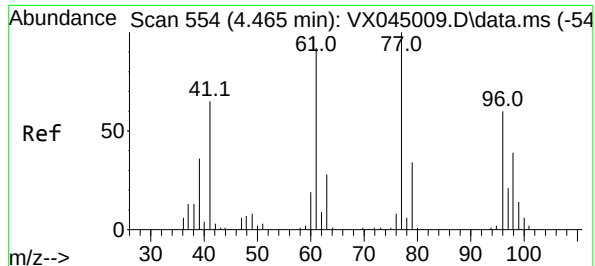
Ion Ratio Lower Upper

43 100

57 7.7 6.2 9.2

72 24.5 20.2 30.2

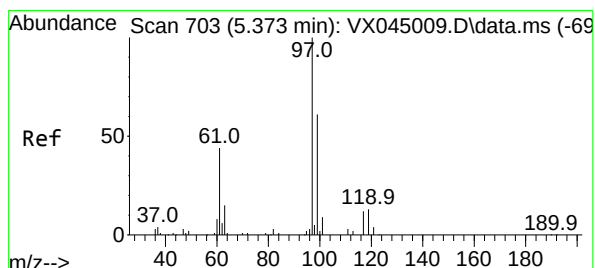
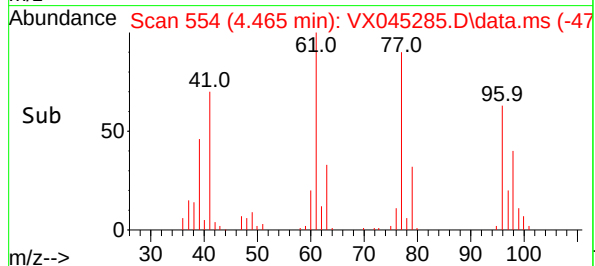
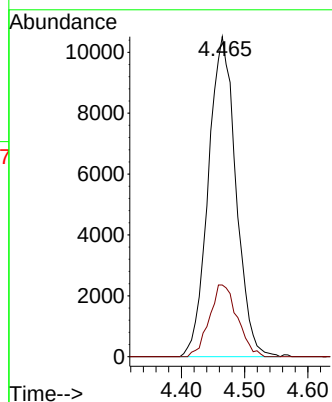
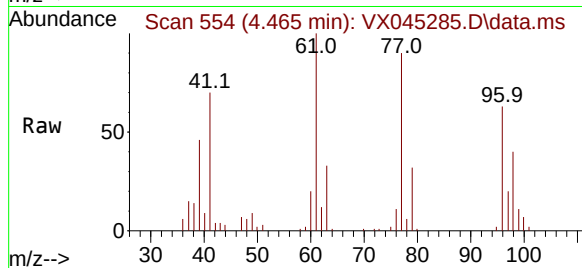




#31  
2,2-Dichloropropane  
Concen: 17.719 ug/l  
RT: 4.465 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

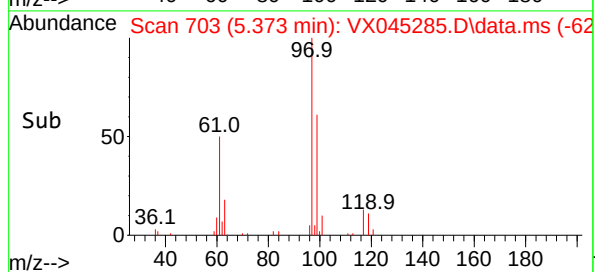
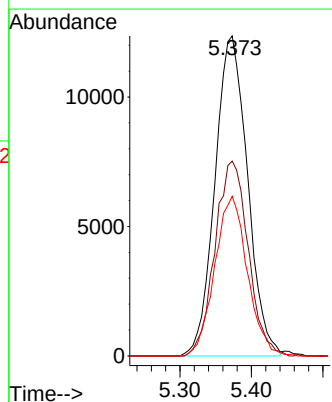
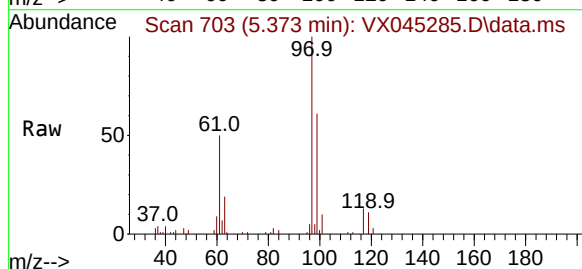
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Tgt Ion: 77 Resp: 31898  
Ion Ratio Lower Upper  
77 100  
97 22.7 18.0 27.0

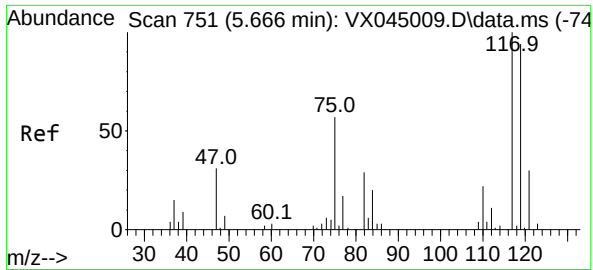


#32  
1,1,1-Trichloroethane  
Concen: 20.269 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 97 Resp: 39099  
Ion Ratio Lower Upper  
97 100  
99 62.1 52.2 78.2  
61 50.1 38.5 57.7



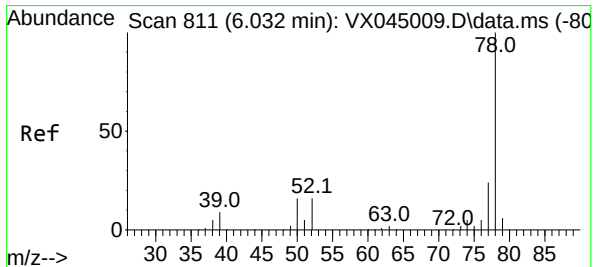
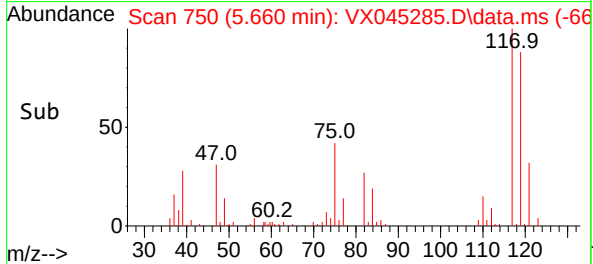
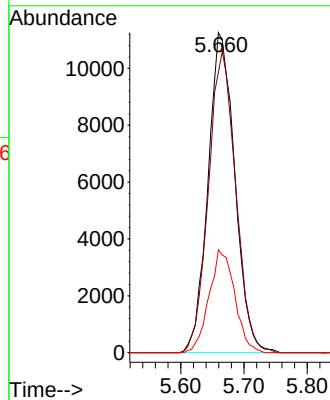
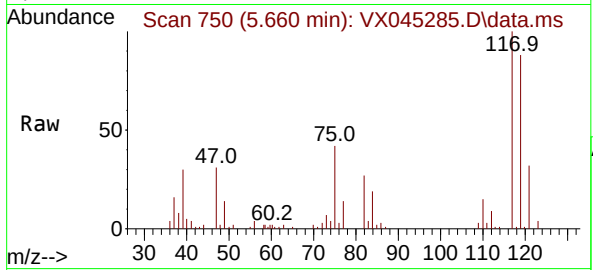




#33  
Carbon Tetrachloride  
Concen: 20.334 ug/l  
RT: 5.660 min Scan# 751  
Delta R.T. -0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

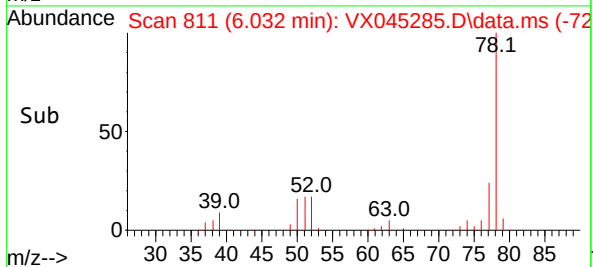
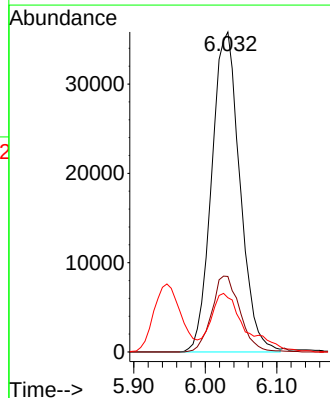
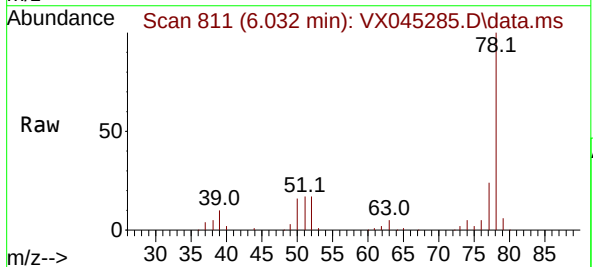
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

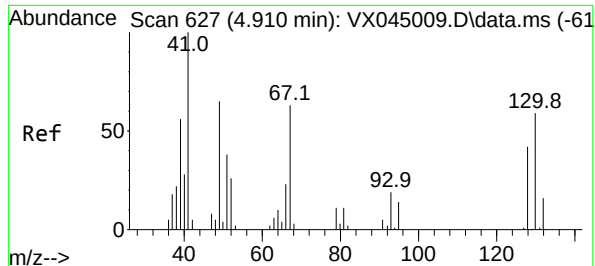
Tgt Ion:117 Resp: 33104  
Ion Ratio Lower Upper  
117 100  
119 87.6 75.1 112.7  
121 32.2 23.9 35.9



#34  
Benzene  
Concen: 19.687 ug/l  
RT: 6.032 min Scan# 811  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 78 Resp: 98293  
Ion Ratio Lower Upper  
78 100  
77 23.6 19.6 29.4  
51 15.3 13.8 20.6





#35

Methacrylonitrile

Concen: 22.317 ug/l

RT: 4.916 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

Tgt Ion: 41 Resp: 21961

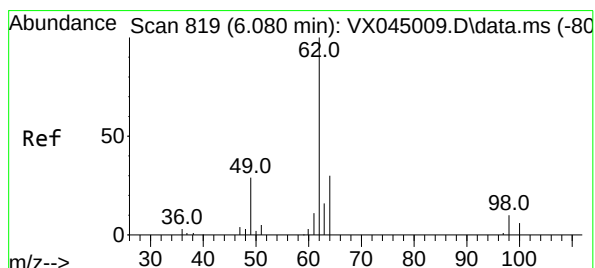
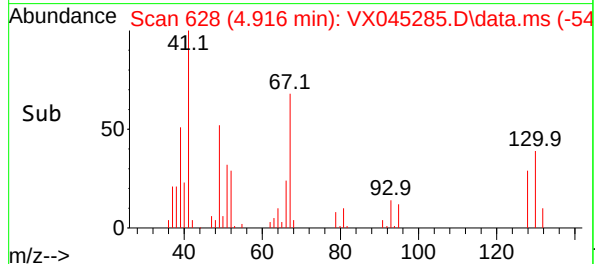
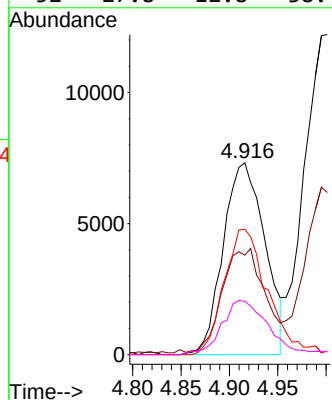
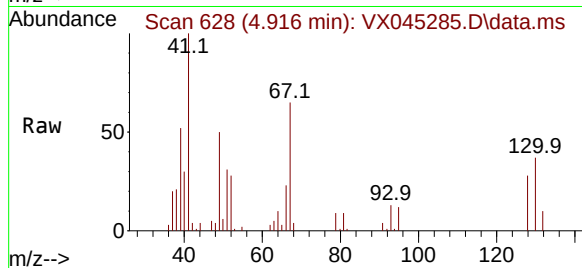
Ion Ratio Lower Upper

41 100

39 49.3 27.8 83.4

67 65.4 31.5 94.5

52 27.8 12.8 38.4



#36

1,2-Dichloroethane

Concen: 21.942 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX045285.D

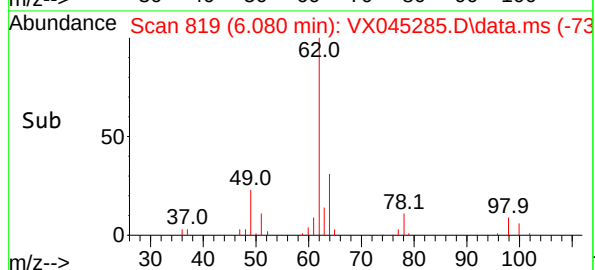
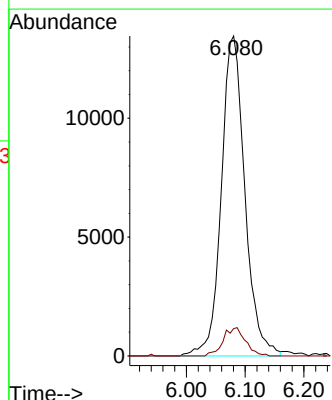
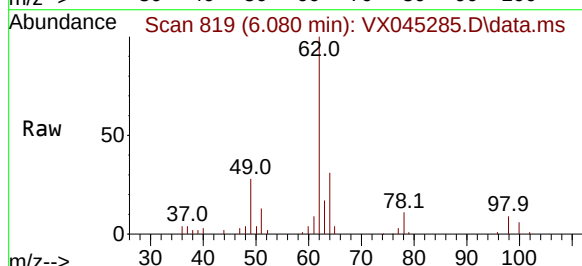
Acq: 14 Mar 2025 10:17

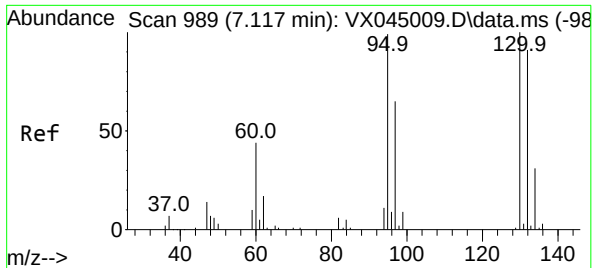
Tgt Ion: 62 Resp: 37507

Ion Ratio Lower Upper

62 100

98 4.6 7.9 11.9

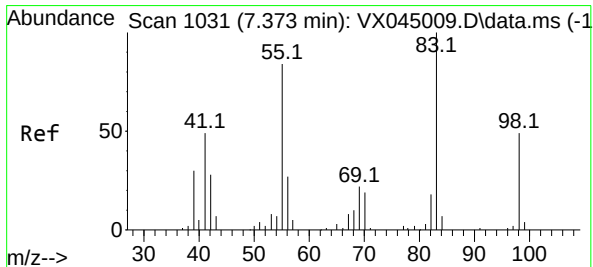
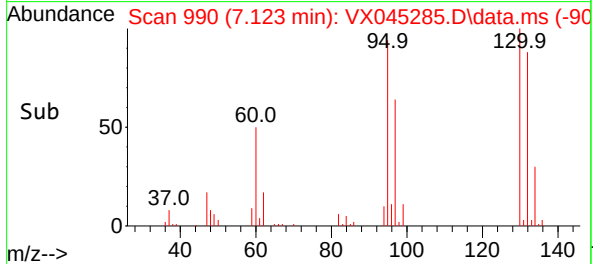
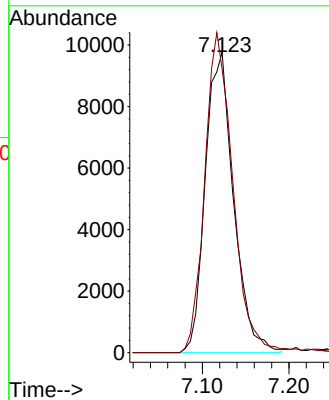
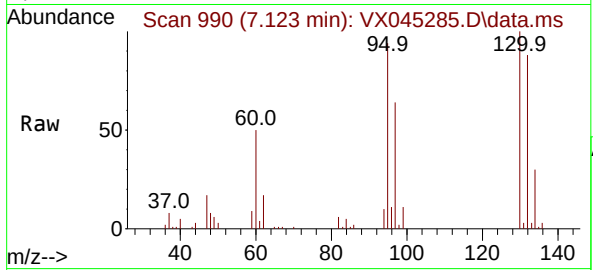




#37  
Trichloroethene  
Concen: 18.972 ug/l  
RT: 7.123 min Scan# 989  
Delta R.T. 0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

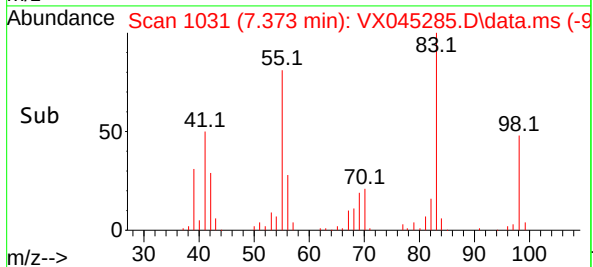
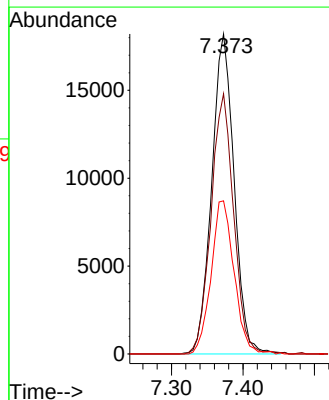
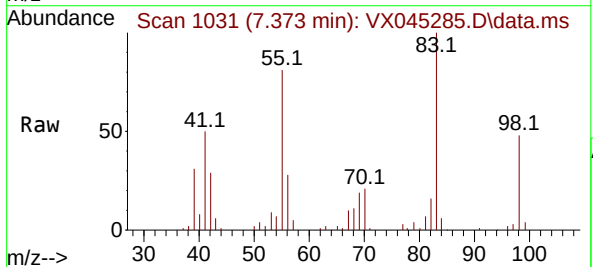
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

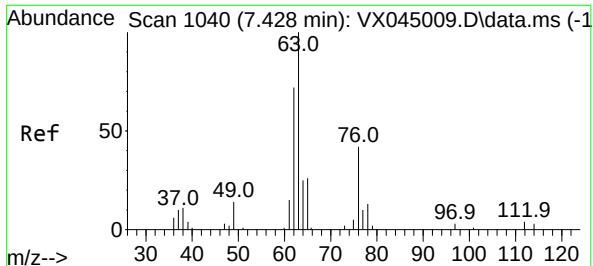
Tgt Ion:130 Resp: 22160  
Ion Ratio Lower Upper  
130 100  
95 94.3 79.0 118.4



#38  
Methylcyclohexane  
Concen: 18.496 ug/l  
RT: 7.373 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 83 Resp: 39538  
Ion Ratio Lower Upper  
83 100  
55 82.1 40.6 122.0  
98 48.8 24.9 74.6





#39

1,2-Dichloropropane

Concen: 20.160 ug/l

RT: 7.422 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

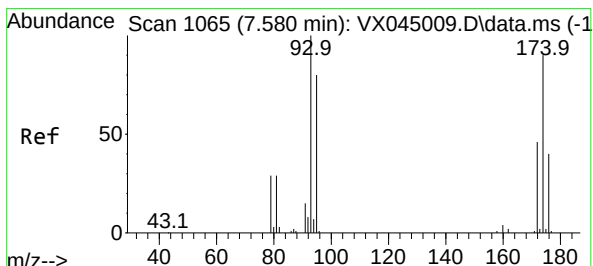
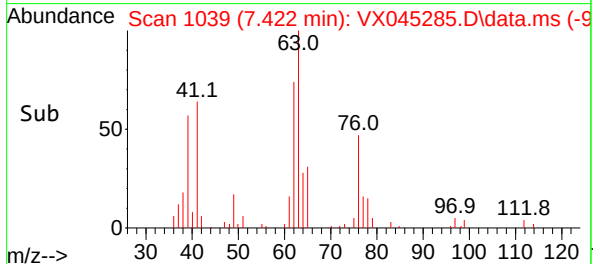
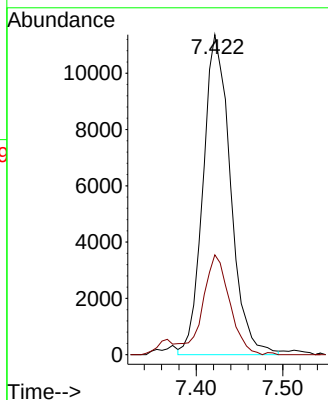
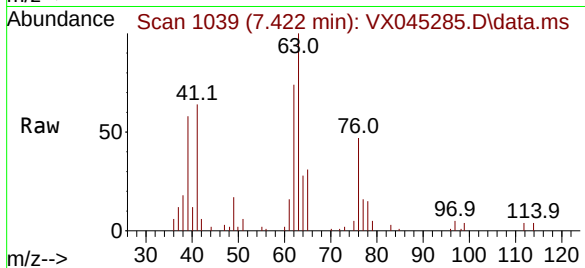
VSTDCCC020

Tgt Ion: 63 Resp: 25024

Ion Ratio Lower Upper

63 100

65 31.5 24.3 36.5



#40

Dibromomethane

Concen: 20.639 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

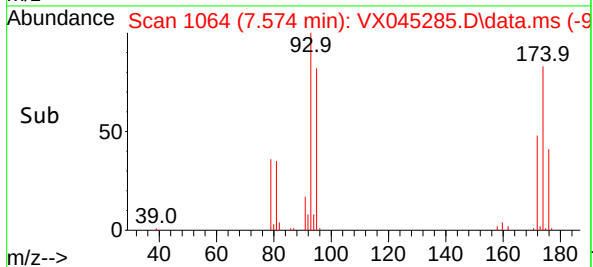
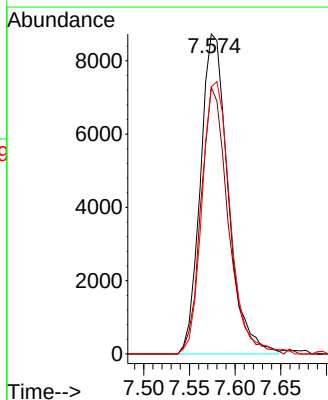
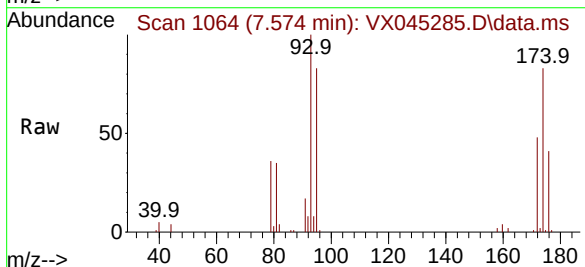
Tgt Ion: 93 Resp: 18384

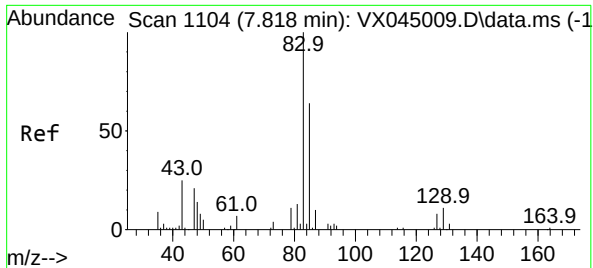
Ion Ratio Lower Upper

93 100

95 81.4 0.0 162.6

174 86.3 0.0 178.8

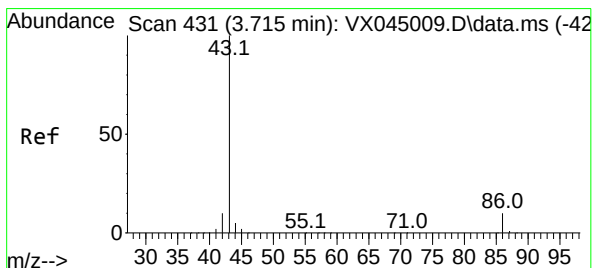
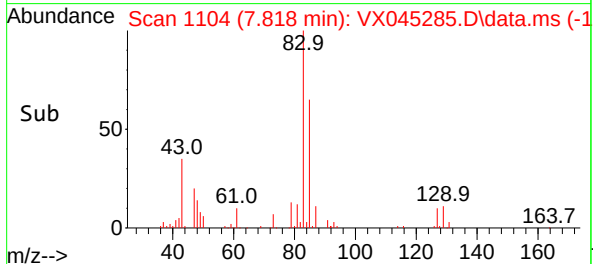
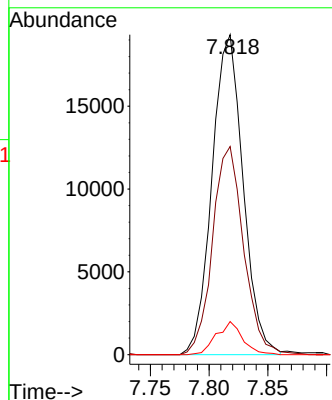
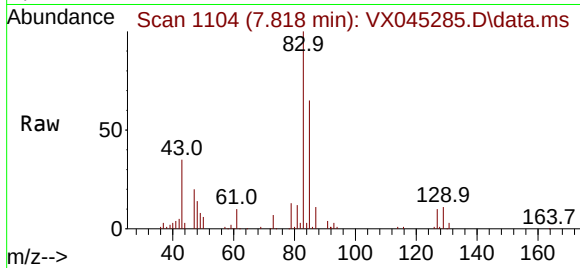




#41  
Bromodichloromethane  
Concen: 20.089 ug/l  
RT: 7.818 min Scan# 1104  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

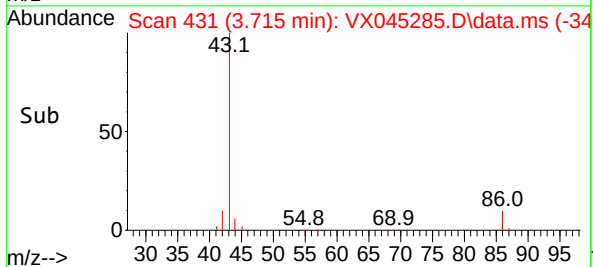
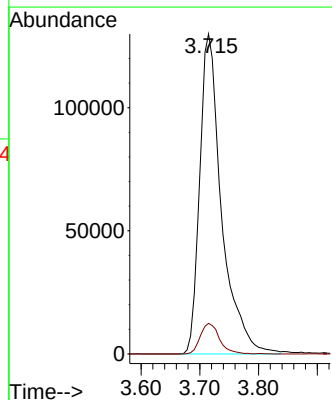
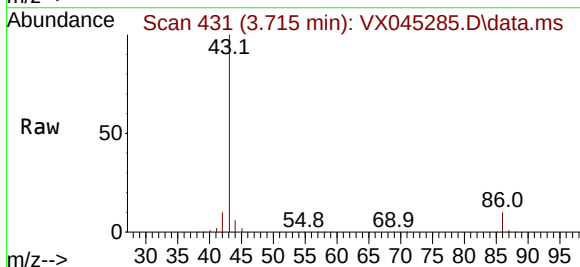
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

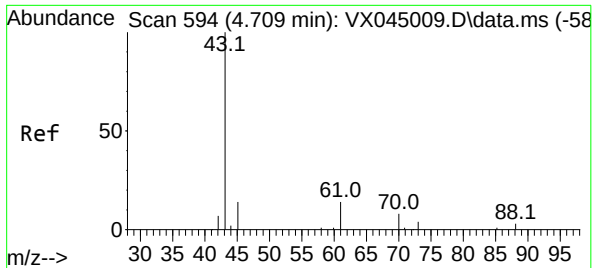
Tgt Ion: 83 Resp: 35564  
Ion Ratio Lower Upper  
83 100  
85 65.0 51.0 76.6  
127 11.0 6.1 9.1#



#42  
Vinyl Acetate  
Concen: 94.389 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 43 Resp: 336824  
Ion Ratio Lower Upper  
43 100  
86 8.4 7.0 10.4

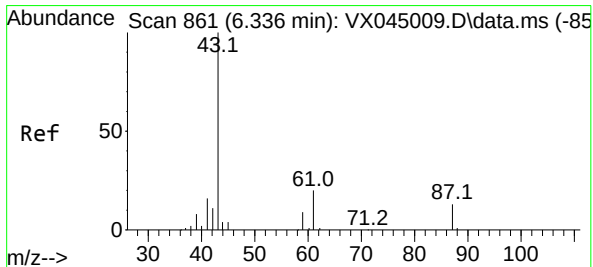
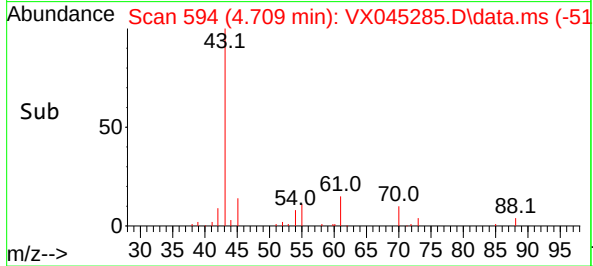
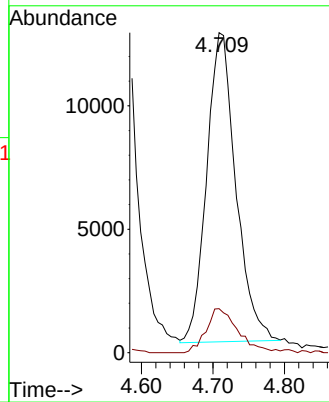
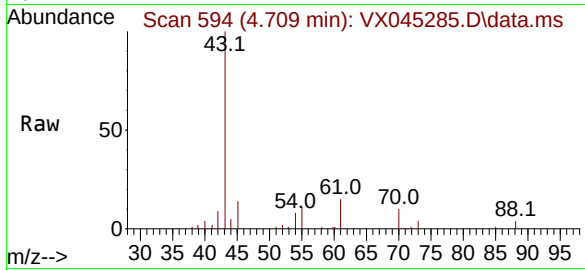




#43  
Ethyl Acetate  
Concen: 20.606 ug/l  
RT: 4.709 min Scan# 594  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

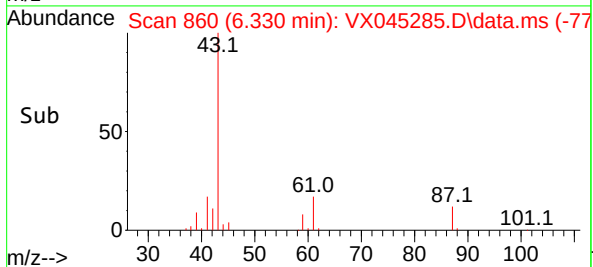
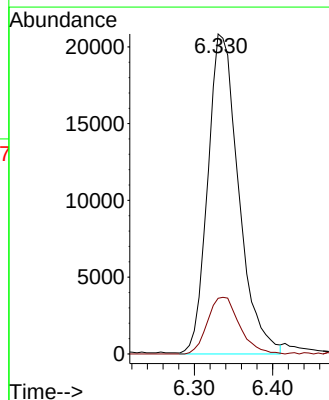
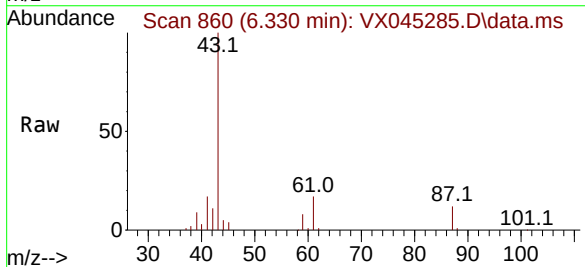
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

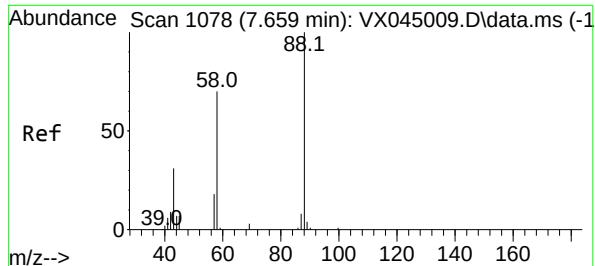
Tgt Ion: 43 Resp: 35536  
Ion Ratio Lower Upper  
43 100  
45 15.4 12.7 19.1



#44  
Isopropyl Acetate  
Concen: 20.091 ug/l  
RT: 6.330 min Scan# 860  
Delta R.T. -0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 43 Resp: 57025  
Ion Ratio Lower Upper  
43 100  
61 18.3 15.5 23.3





#45

1,4-Dioxane

Concen: 364.913 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

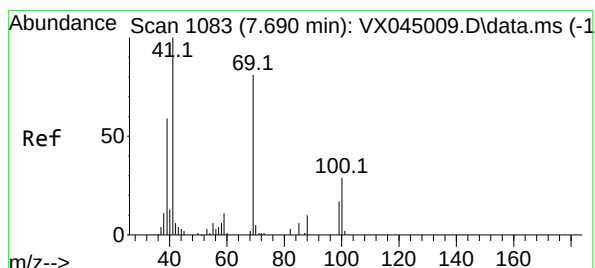
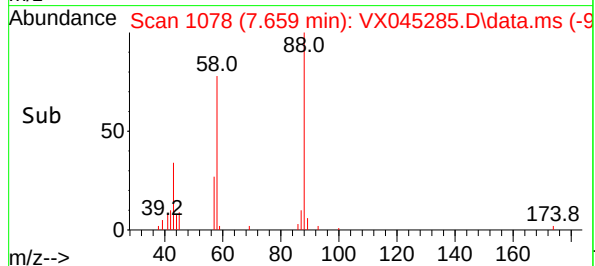
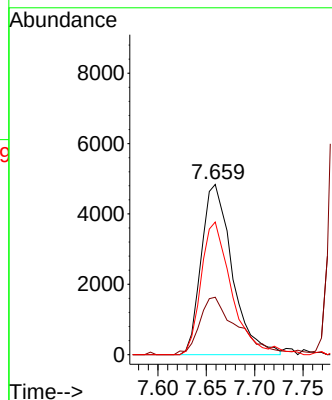
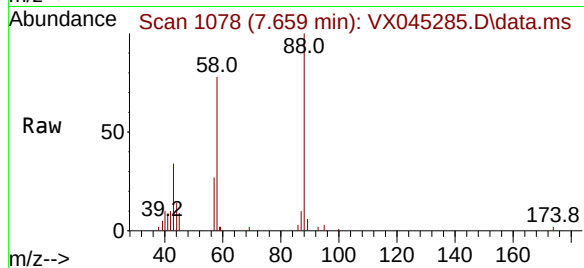
MSVOA\_X

ClientSampleId :

VSTDCCC020

Tgt Ion: 88 Resp: 10767

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 41.3  | 29.6  | 44.4  |
| 58  | 75.4  | 56.2  | 84.4  |



#46

Methyl methacrylate

Concen: 21.040 ug/l

RT: 7.690 min Scan# 1083

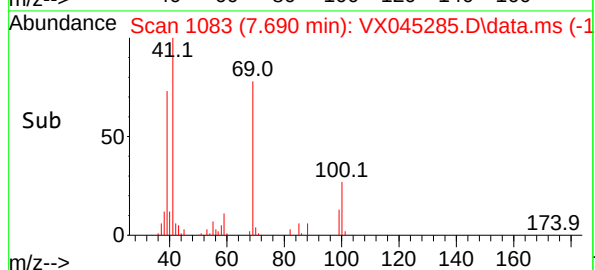
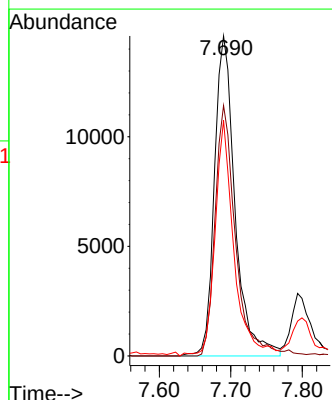
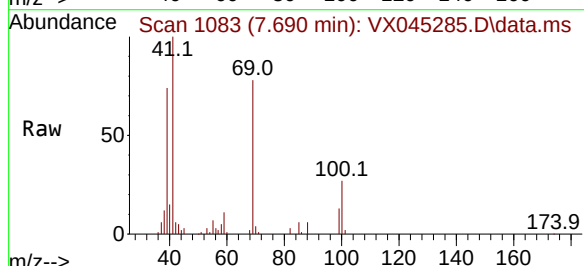
Delta R.T. 0.000 min

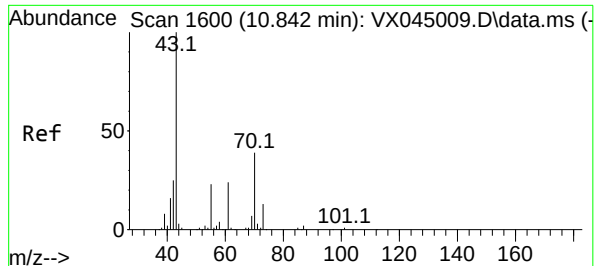
Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Tgt Ion: 41 Resp: 29283

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 78.2  | 40.7  | 122.1 |
| 39  | 73.6  | 29.5  | 88.5  |





#47

n-amy1 Acetate

Concen: 19.340 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

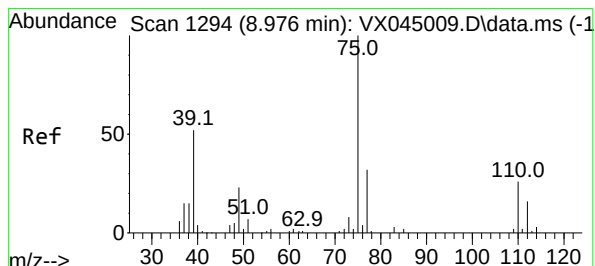
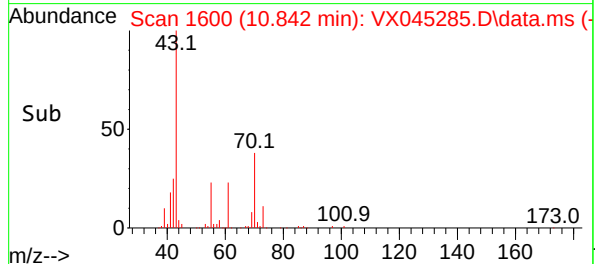
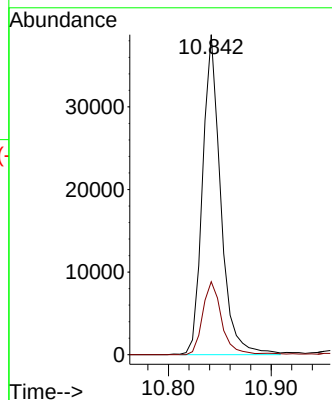
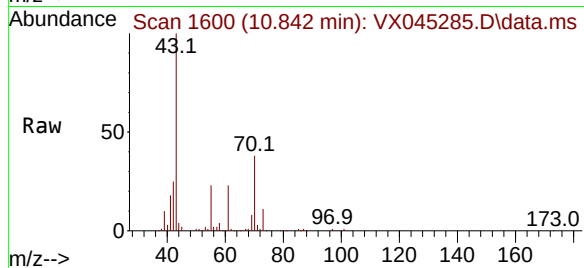
VSTDCCC020

Tgt Ion: 43 Resp: 47634

Ion Ratio Lower Upper

43 100

55 23.5 18.6 27.8



#48

t-1,3-Dichloropropene

Concen: 18.110 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX045285.D

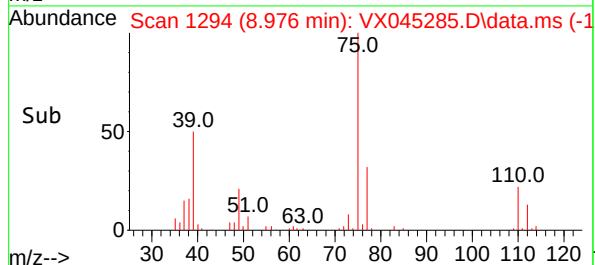
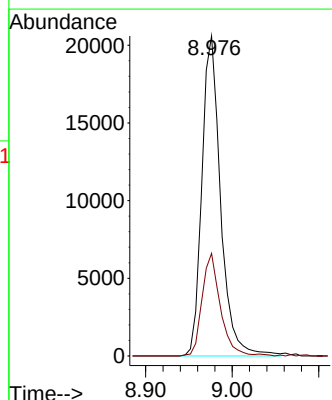
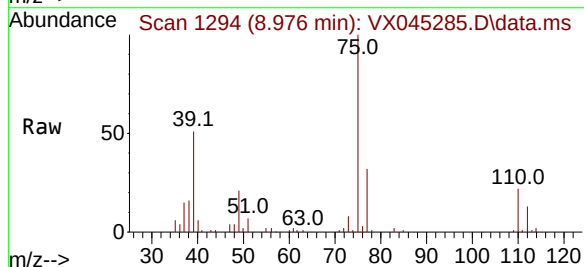
Acq: 14 Mar 2025 10:17

Tgt Ion: 75 Resp: 30902

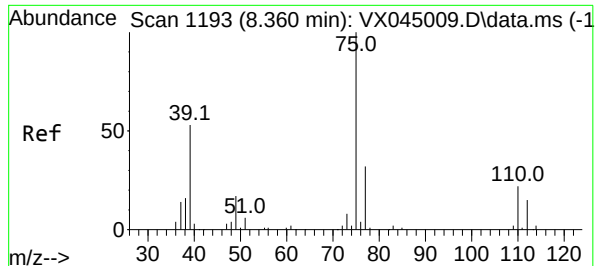
Ion Ratio Lower Upper

75 100

77 32.0 25.7 38.5







#49

cis-1,3-Dichloropropene

Concen: 18.650 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

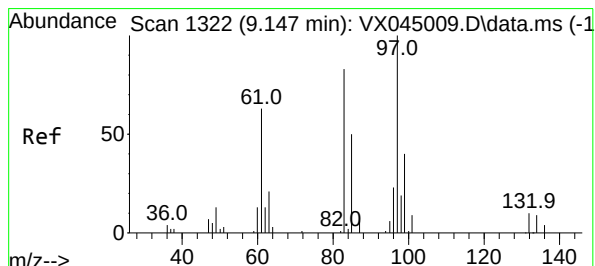
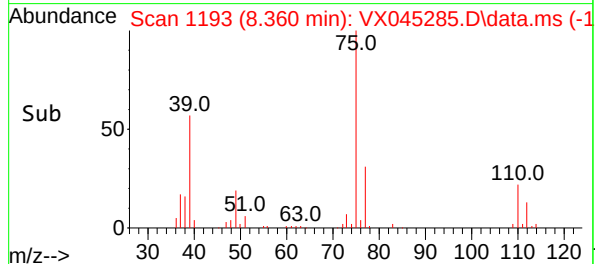
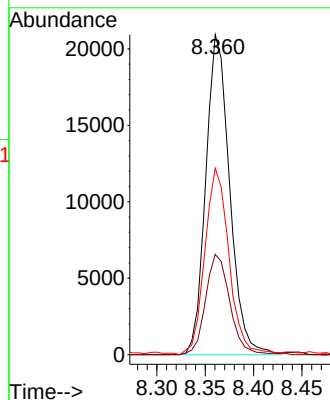
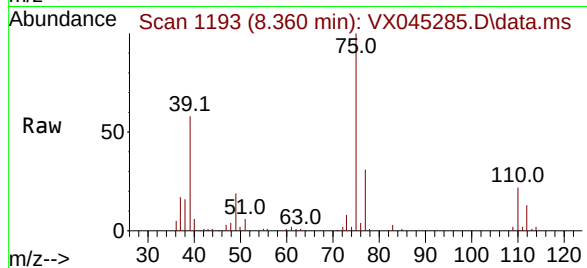
Tgt Ion: 75 Resp: 36026

Ion Ratio Lower Upper

75 100

77 31.3 25.9 38.9

39 58.3 42.3 63.5



#50

1,1,2-Trichloroethane

Concen: 20.674 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Tgt Ion: 97 Resp: 24020

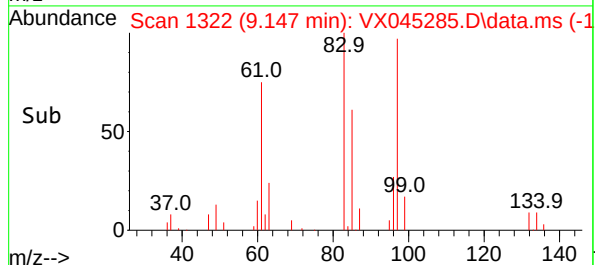
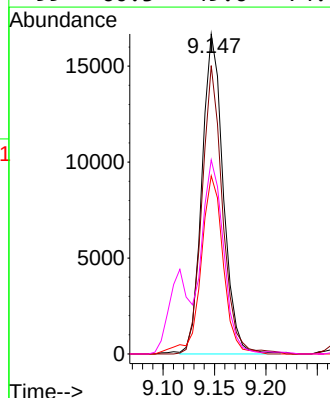
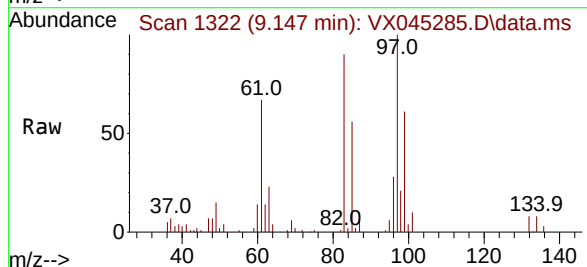
Ion Ratio Lower Upper

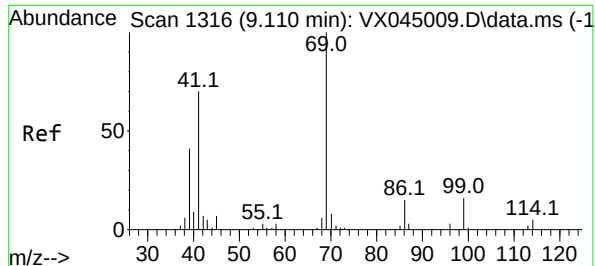
97 100

83 90.2 66.0 99.0

85 55.9 42.5 63.7

99 60.3 49.6 74.4





#51

Ethyl methacrylate

Concen: 19.522 ug/l

RT: 9.116 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

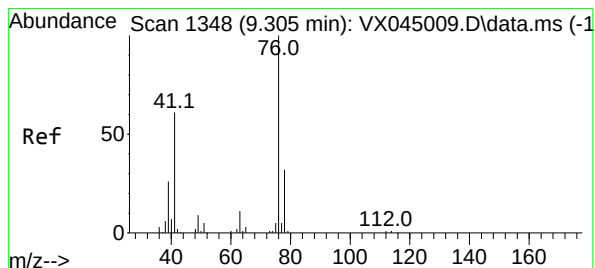
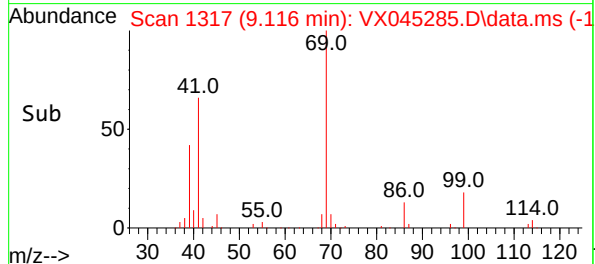
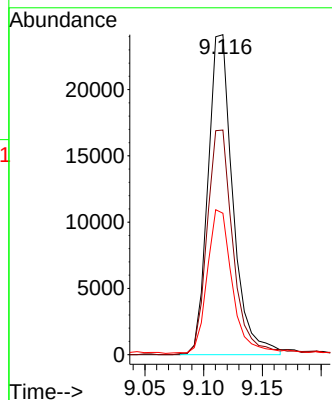
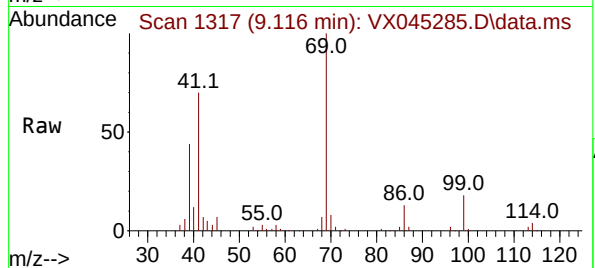
Tgt Ion: 69 Resp: 35672

Ion Ratio Lower Upper

69 100

41 69.8 35.1 105.3

39 43.6 20.5 61.6



#52

1,3-Dichloropropane

Concen: 20.648 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX045285.D

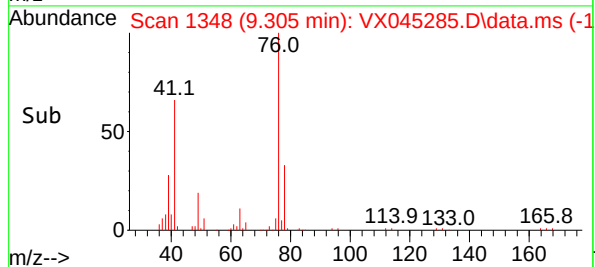
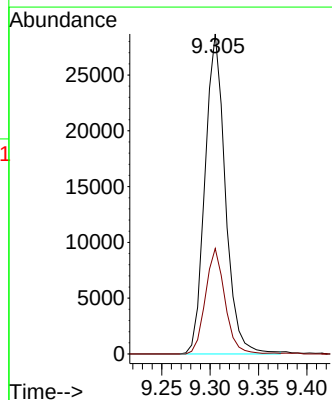
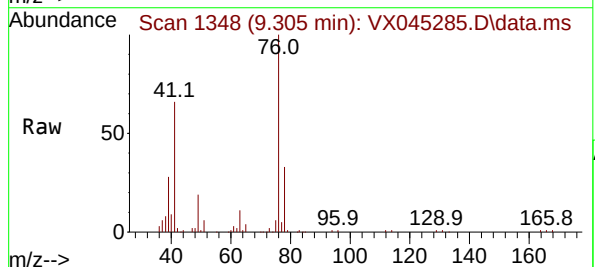
Acq: 14 Mar 2025 10:17

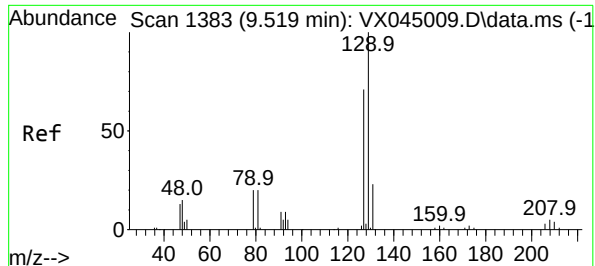
Tgt Ion: 76 Resp: 42035

Ion Ratio Lower Upper

76 100

78 31.5 0.0 63.6





#53

Dibromochloromethane

Concen: 20.529 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

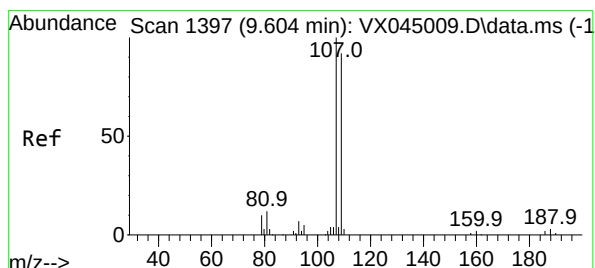
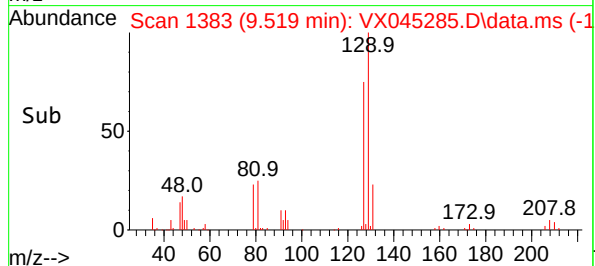
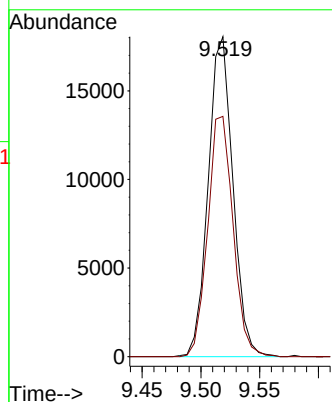
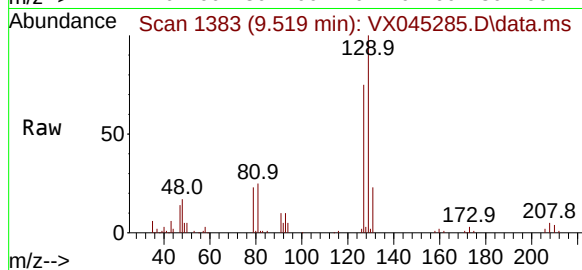
VSTDCCC020

Tgt Ion:129 Resp: 26379

Ion Ratio Lower Upper

129 100

127 77.2 37.3 111.9



#54

1,2-Dibromoethane

Concen: 20.276 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX045285.D

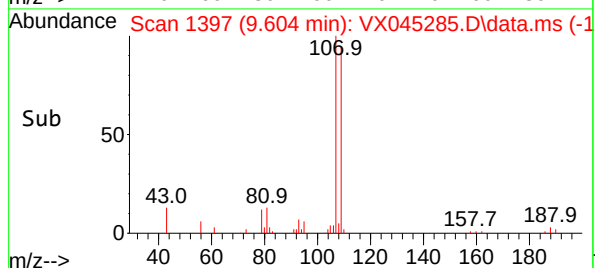
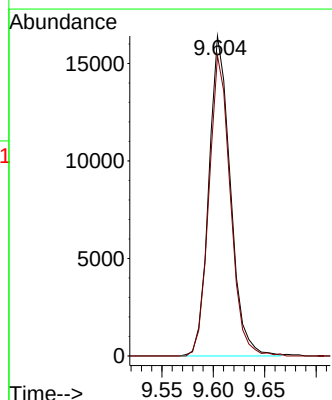
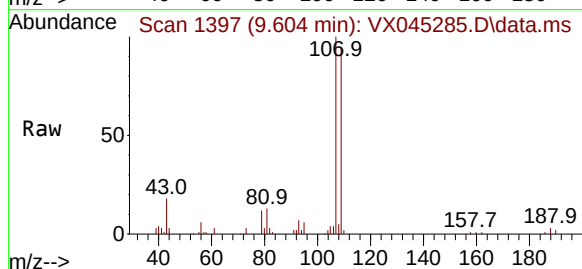
Acq: 14 Mar 2025 10:17

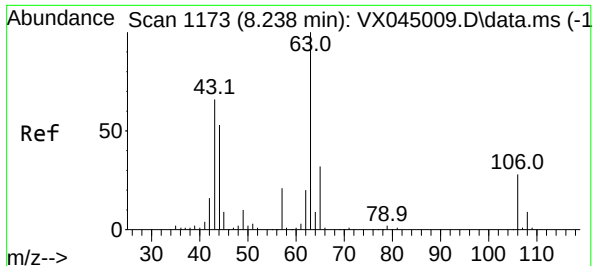
Tgt Ion:107 Resp: 23922

Ion Ratio Lower Upper

107 100

109 93.1 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 99.705 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

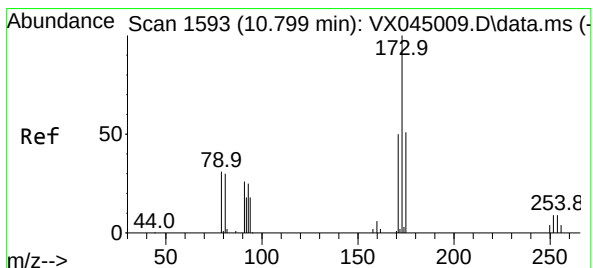
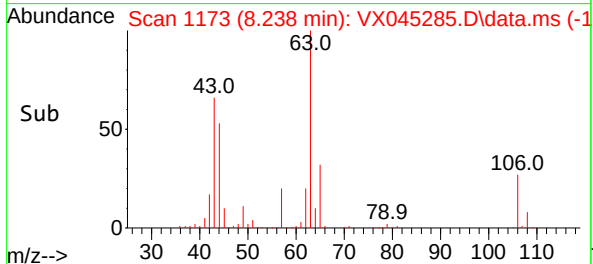
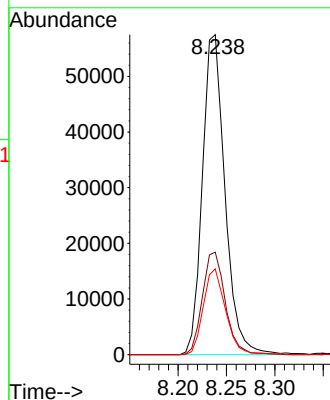
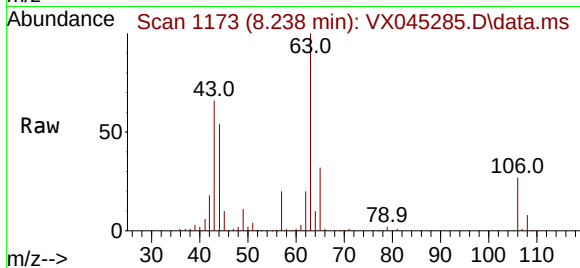
Tgt Ion: 63 Resp: 93558

Ion Ratio Lower Upper

63 100

65 32.3 26.2 39.2

106 26.5 21.2 31.8



#56

Bromoform

Concen: 20.621 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

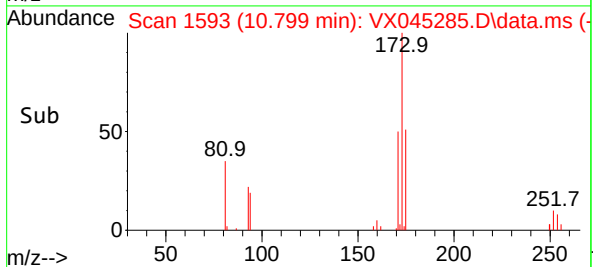
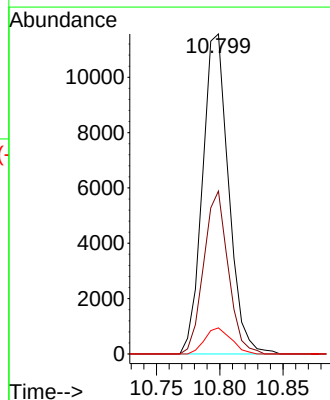
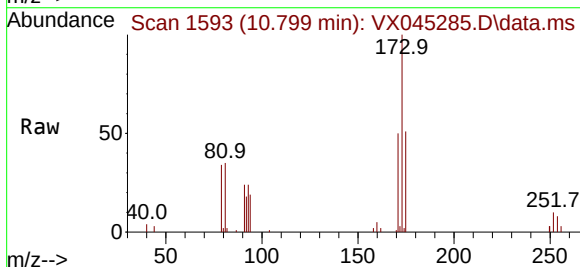
Tgt Ion: 173 Resp: 16604

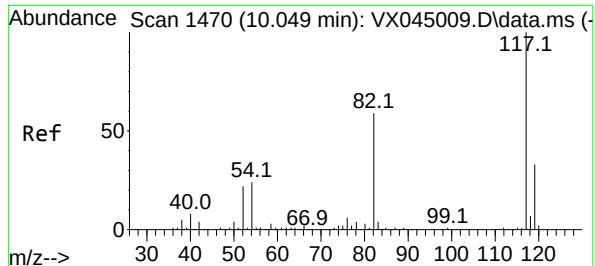
Ion Ratio Lower Upper

173 100

175 47.7 39.6 59.4

254 8.2 6.3 9.5





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

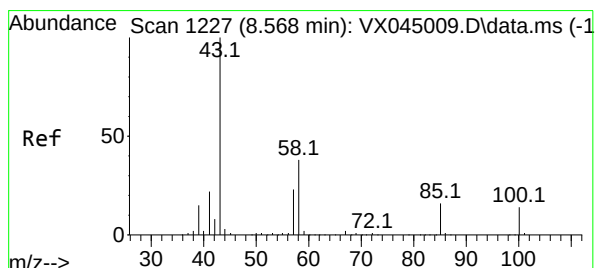
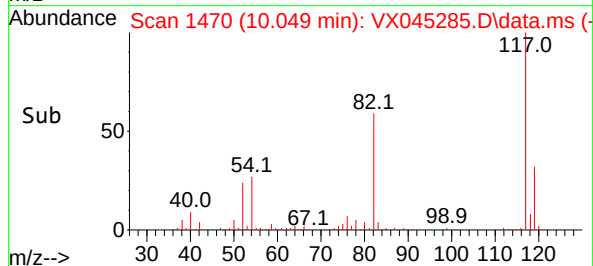
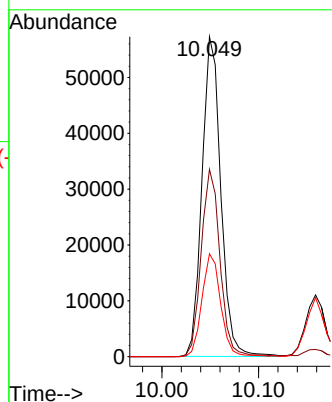
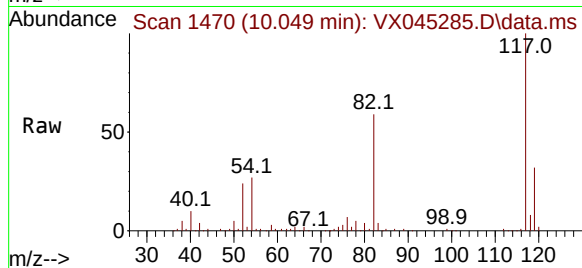
Tgt Ion:117 Resp: 77791

Ion Ratio Lower Upper

117 100

82 58.3 45.8 68.8

119 32.0 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 118.678 ug/l

RT: 8.568 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

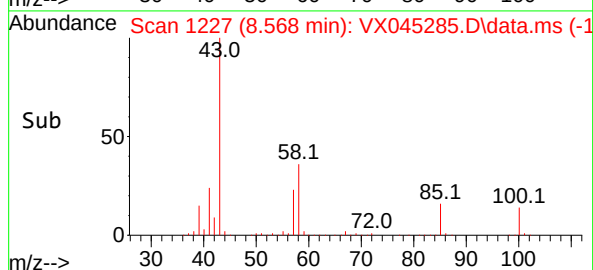
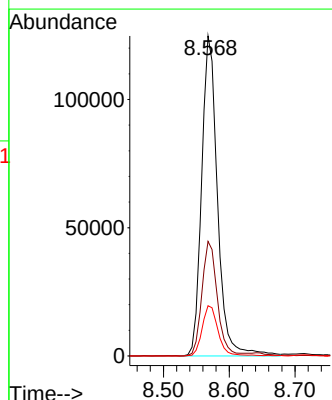
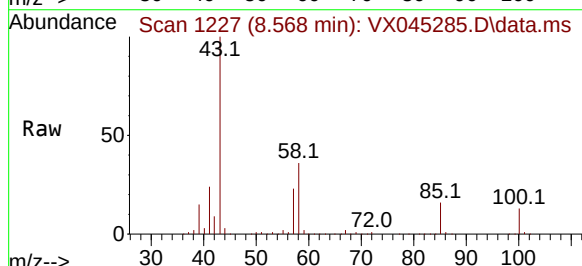
Tgt Ion: 43 Resp: 210011

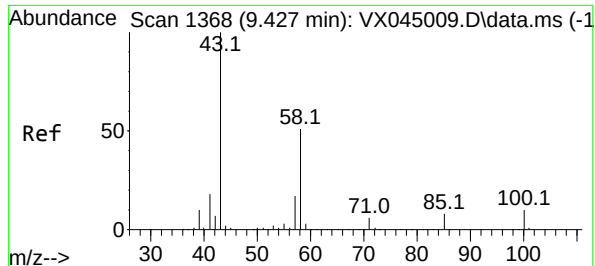
Ion Ratio Lower Upper

43 100

58 34.6 29.5 44.3

85 15.8 12.9 19.3





#59

2-Hexanone

Concen: 118.305 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

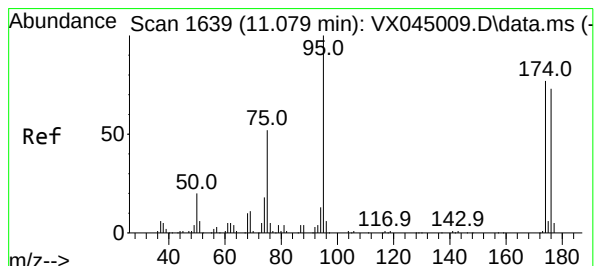
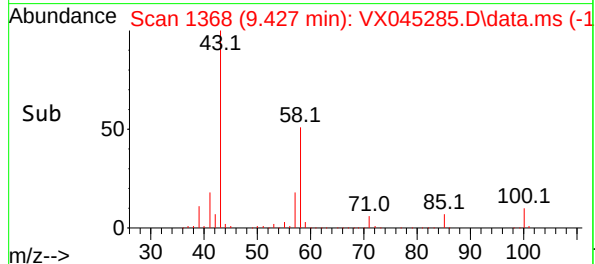
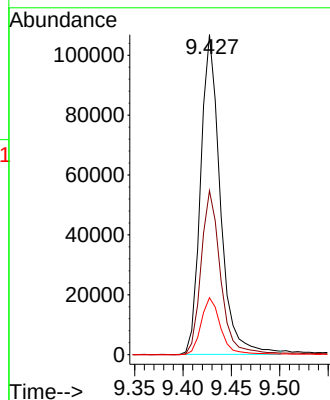
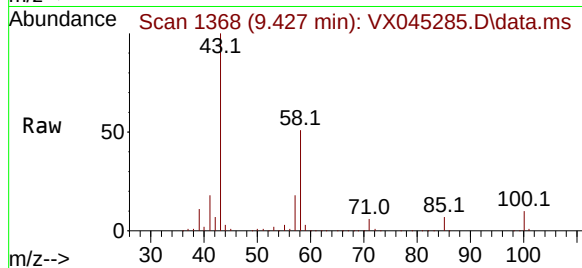
Tgt Ion: 43 Resp: 151320

Ion Ratio Lower Upper

43 100

58 51.2 41.6 62.4

57 17.8 13.8 20.6



#60

4-Bromofluorobenzene

Concen: 30.362 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

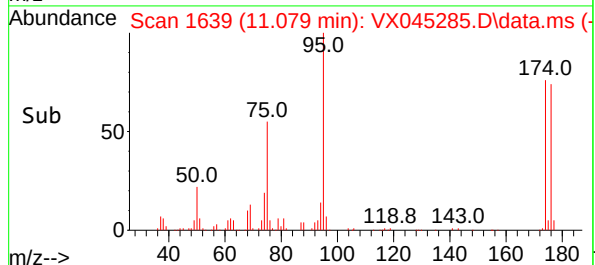
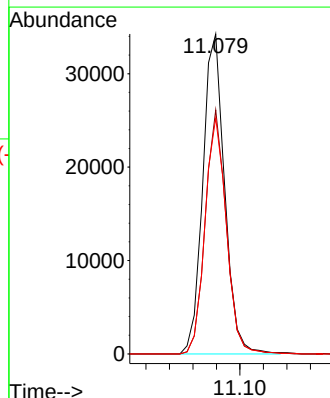
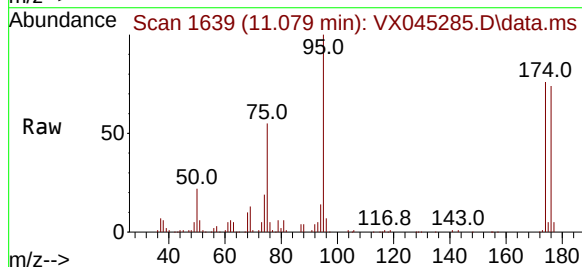
Tgt Ion: 95 Resp: 44147

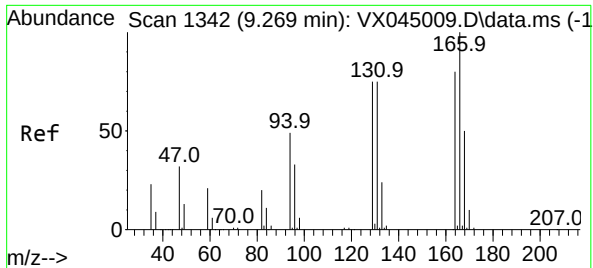
Ion Ratio Lower Upper

95 100

174 73.0 59.5 89.3

176 72.6 55.5 83.3

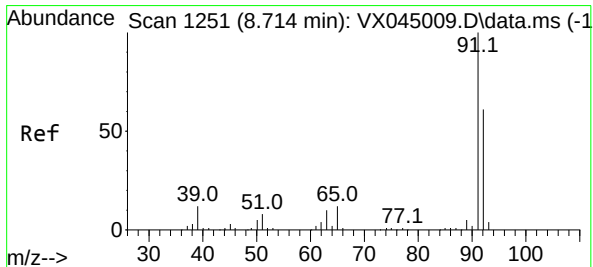
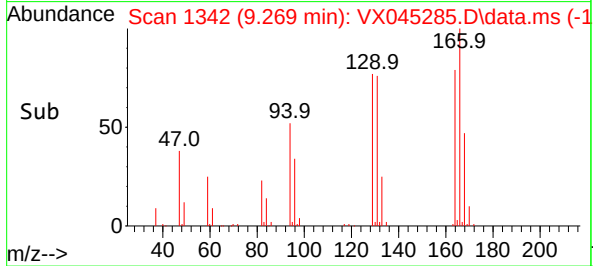
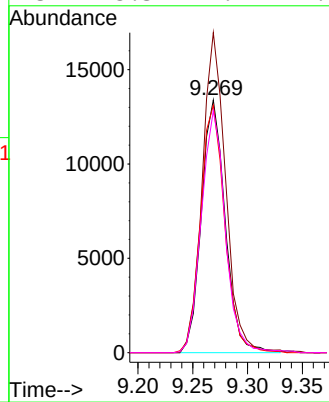
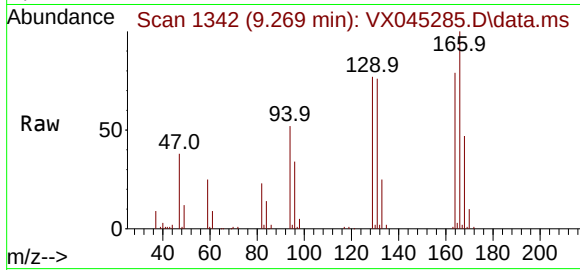




#61  
Tetrachloroethene  
Concen: 21.091 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

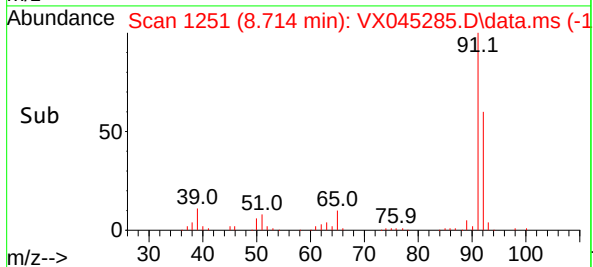
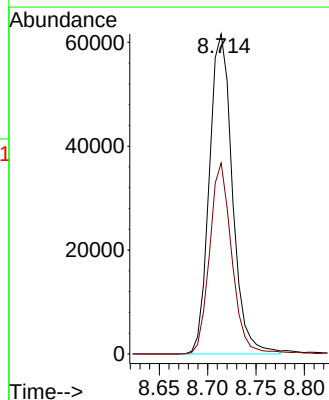
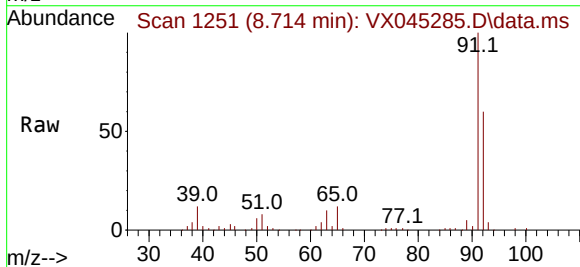
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

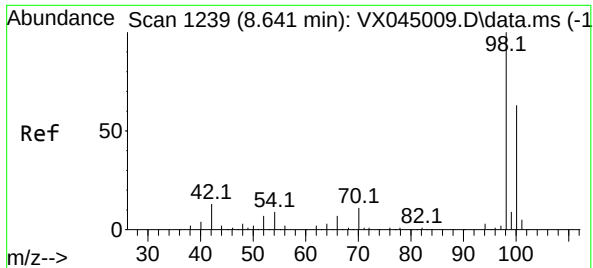
Tgt Ion:164 Resp: 20203  
Ion Ratio Lower Upper  
164 100  
166 126.7 100.3 150.5  
129 97.5 75.5 113.3  
131 95.3 74.9 112.3



#62  
Toluene  
Concen: 19.886 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 91 Resp: 102478  
Ion Ratio Lower Upper  
91 100  
92 56.7 46.9 70.3





#63

Toluene-d8

Concen: 31.019 ug/l

RT: 8.641 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

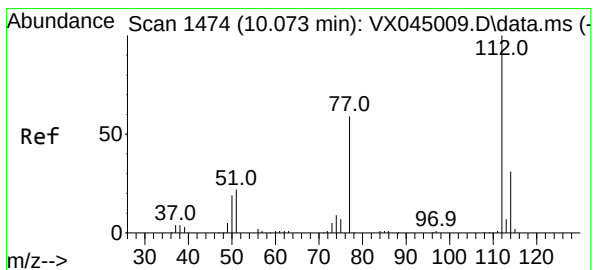
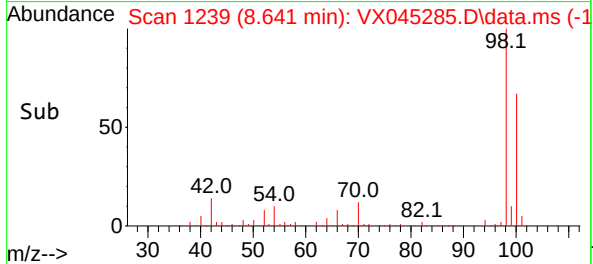
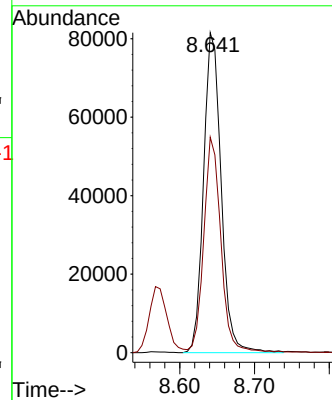
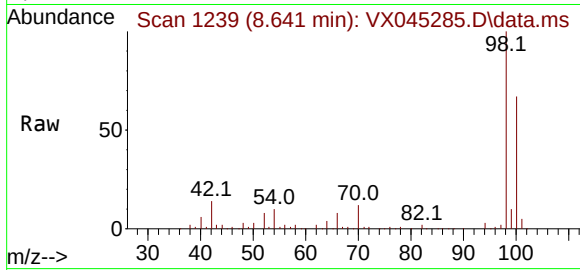
VSTDCCC020

Tgt Ion: 98 Resp: 133493

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



#64

Chlorobenzene

Concen: 19.960 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VX045285.D

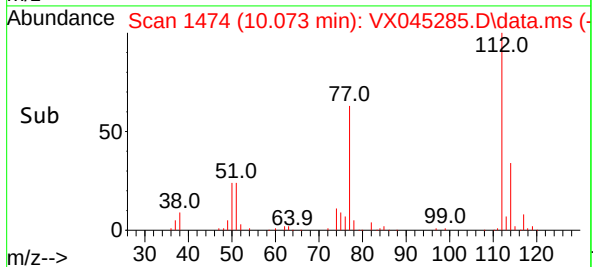
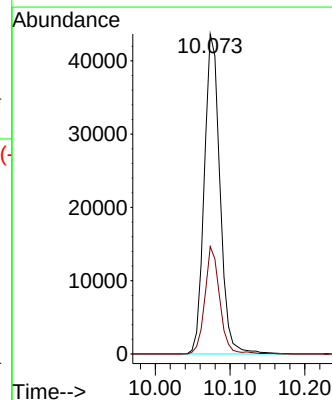
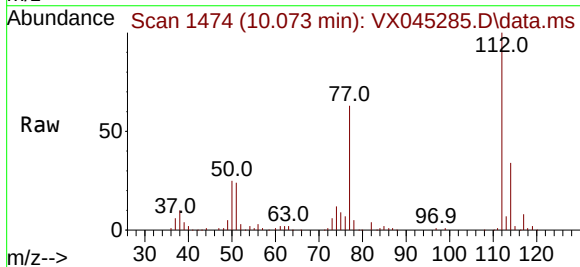
Acq: 14 Mar 2025 10:17

Tgt Ion: 112 Resp: 63738

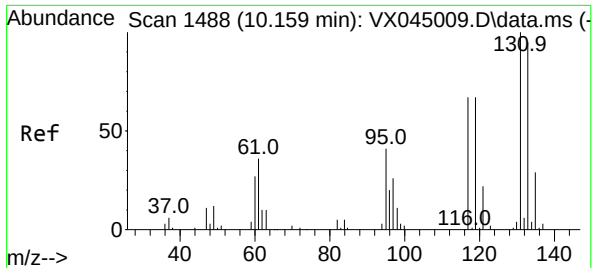
Ion Ratio Lower Upper

112 100

114 33.5 24.7 37.1



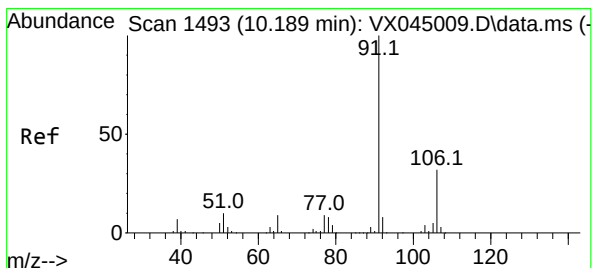
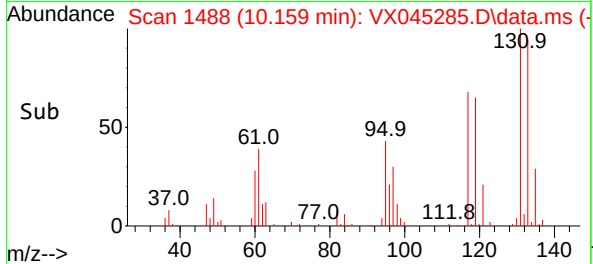
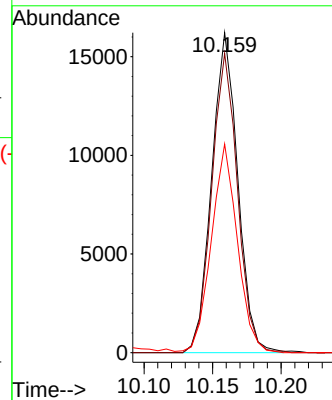
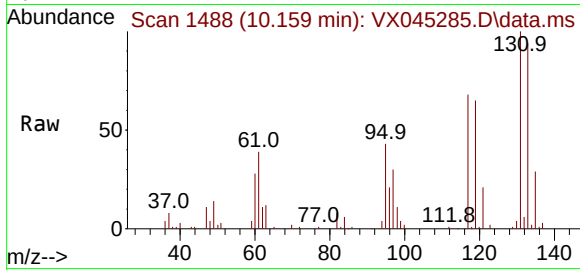




#65  
1,1,1,2-Tetrachloroethane  
Concen: 20.375 ug/l  
RT: 10.159 min Scan# 1488  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

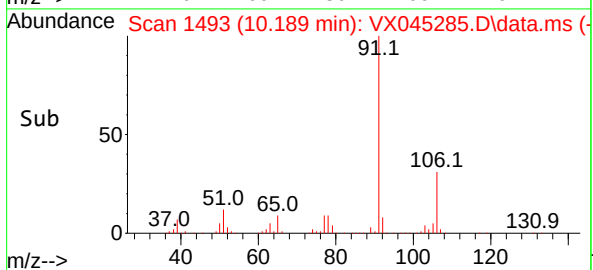
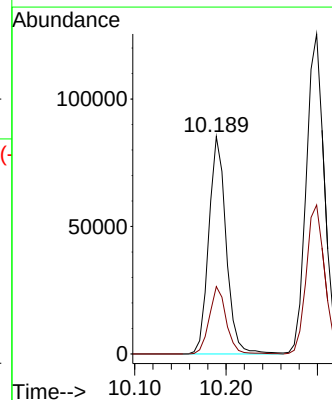
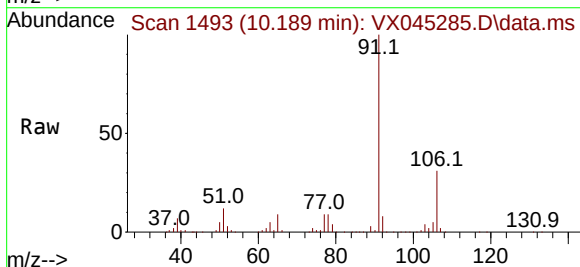
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

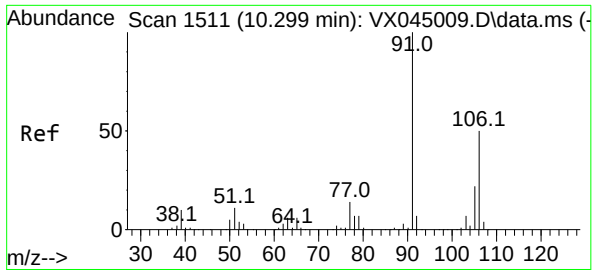
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 92.6  | 0.0   | 187.8 |
| 119     | 65.2  | 0.0   | 133.0 |



#66  
Ethyl Benzene  
Concen: 19.913 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.0  | 25.4  | 38.2  |

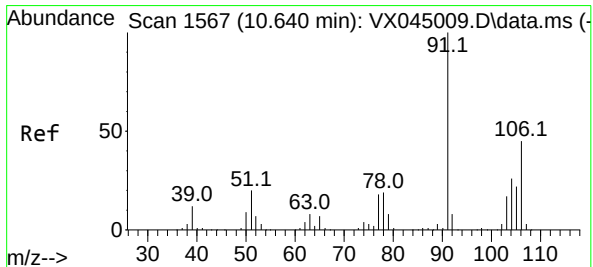
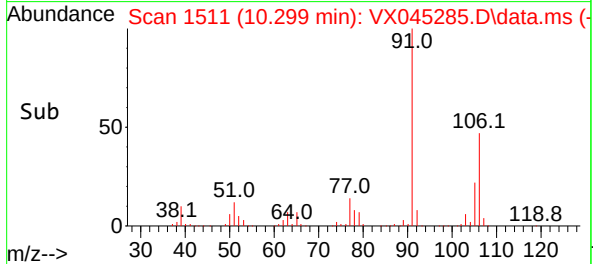
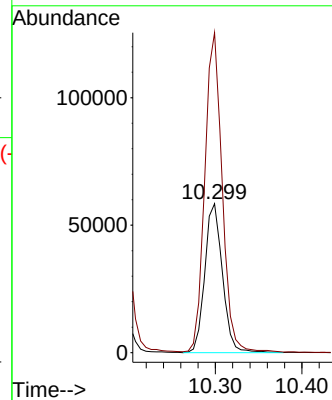
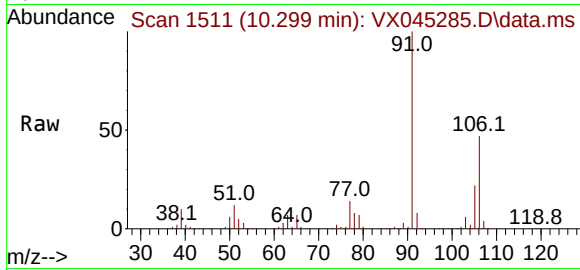




#67  
m/p-Xylenes  
Concen: 39.449 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

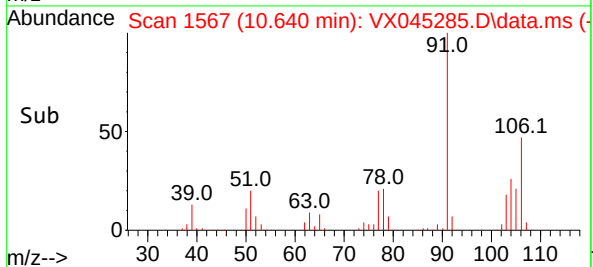
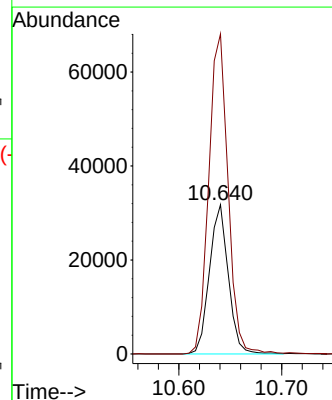
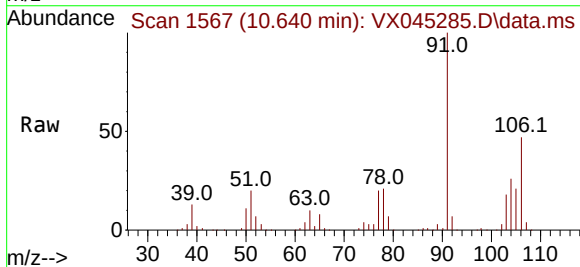
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

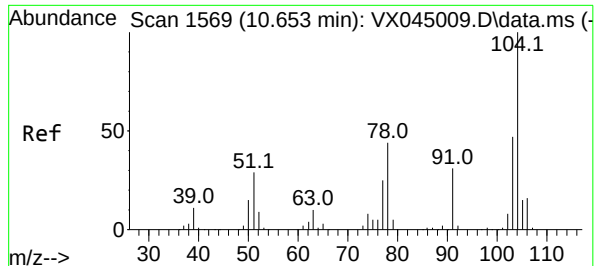
Tgt Ion:106 Resp: 82923  
Ion Ratio Lower Upper  
106 100  
91 208.3 163.7 245.5



#68  
o-Xylene  
Concen: 19.698 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion:106 Resp: 40626  
Ion Ratio Lower Upper  
106 100  
91 216.5 109.7 329.1





#69

Styrene

Concen: 19.557 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

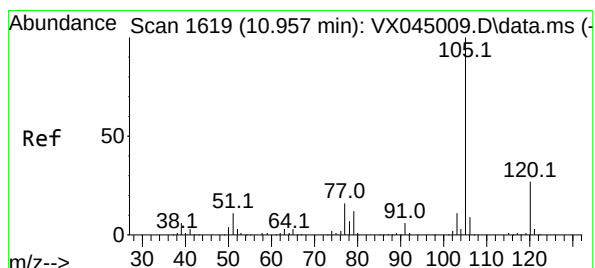
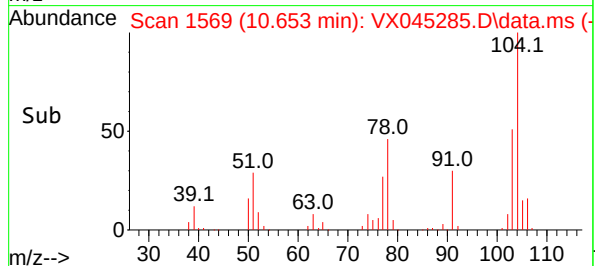
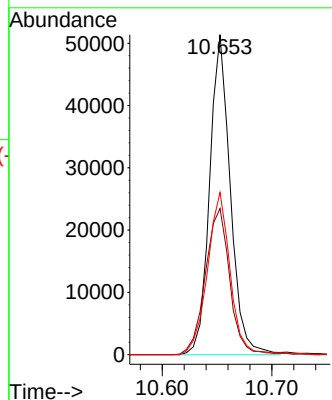
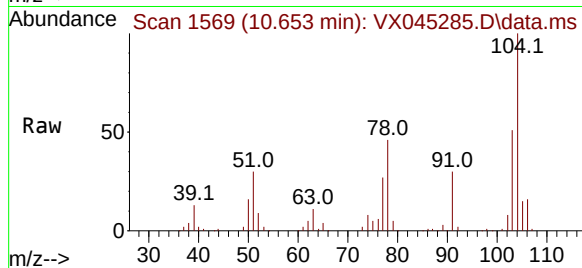
Tgt Ion:104 Resp: 67365

Ion Ratio Lower Upper

104 100

78 53.4 41.4 62.0

103 55.3 43.0 64.4



#70

Isopropylbenzene

Concen: 20.364 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX045285.D

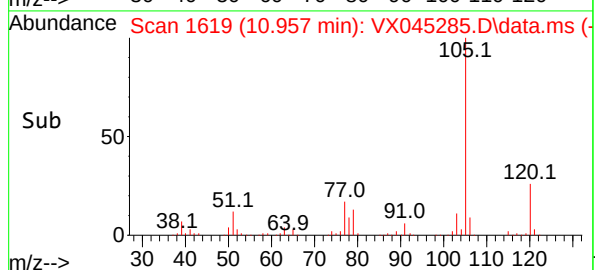
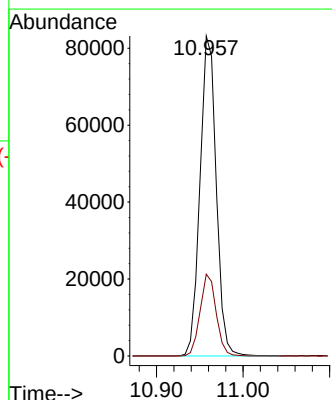
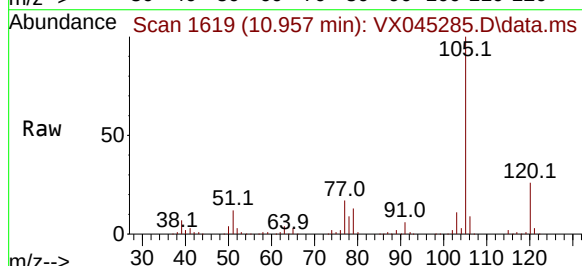
Acq: 14 Mar 2025 10:17

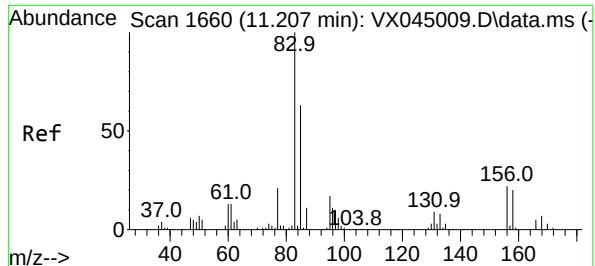
Tgt Ion:105 Resp: 108381

Ion Ratio Lower Upper

105 100

120 25.2 18.4 34.2





#71

1,1,2,2-Tetrachloroethane

Concen: 22.853 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

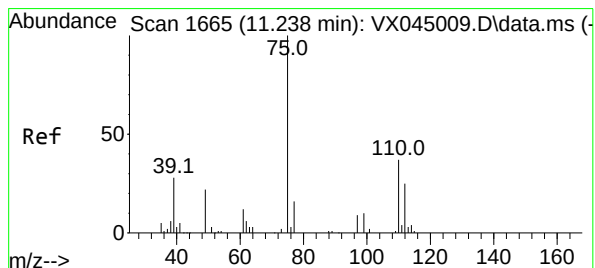
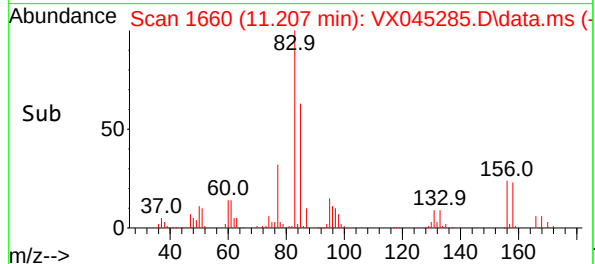
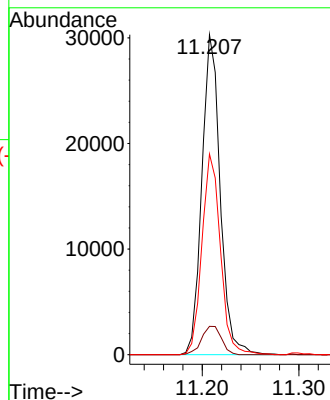
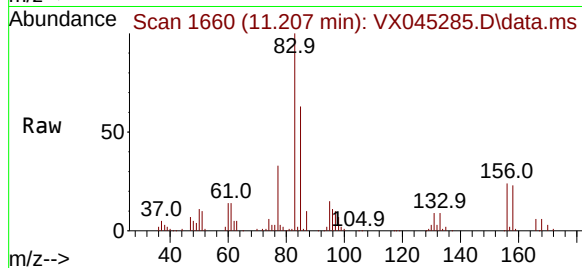
Tgt Ion: 83 Resp: 39996

Ion Ratio Lower Upper

83 100

131 9.7 4.8 14.3

85 63.2 32.3 96.8



#72

1,2,3-Trichloropropane

Concen: 23.032 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX045285.D

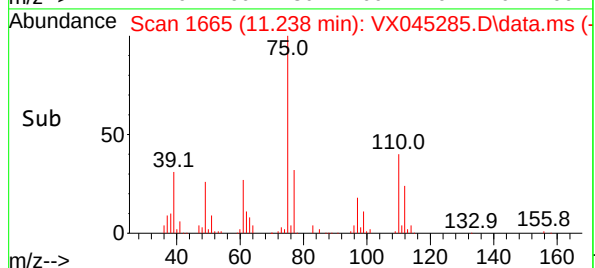
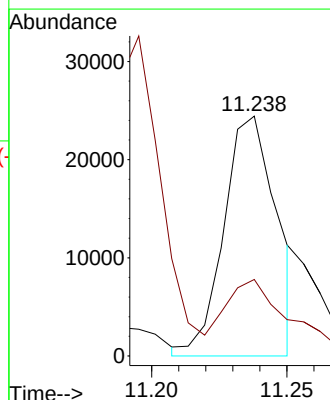
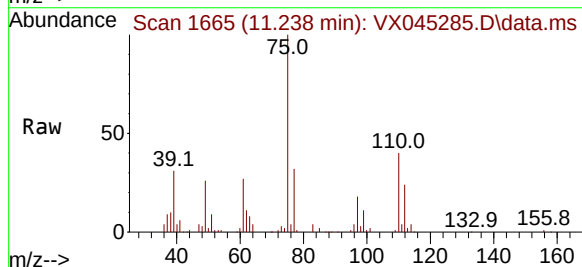
Acq: 14 Mar 2025 10:17

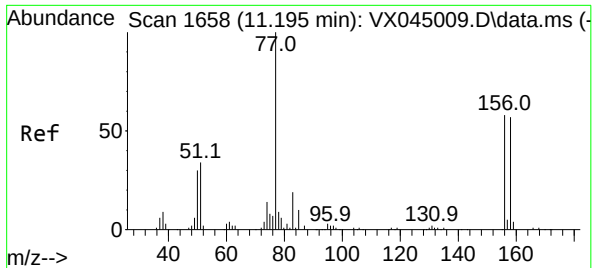
Tgt Ion: 75 Resp: 33154

Ion Ratio Lower Upper

75 100

77 39.8 0.0 84.0

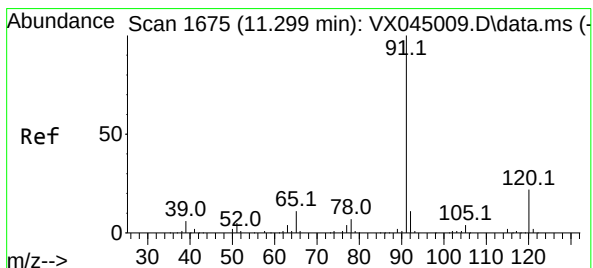
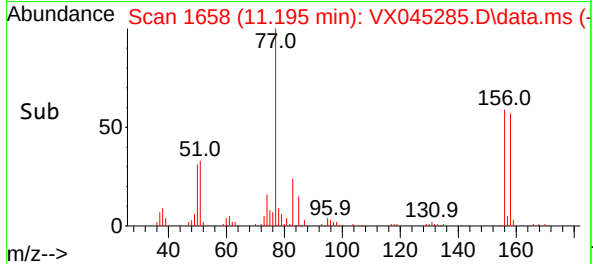
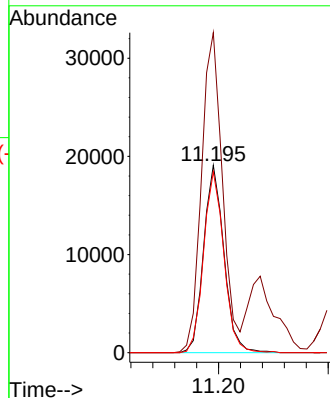
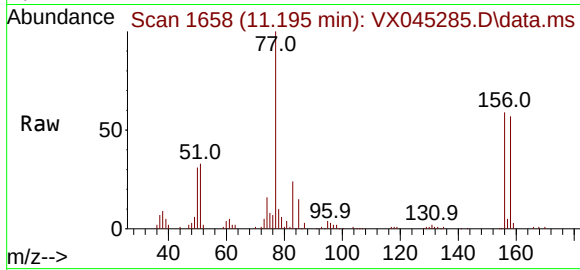




#73  
Bromobenzene  
Concen: 20.096 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

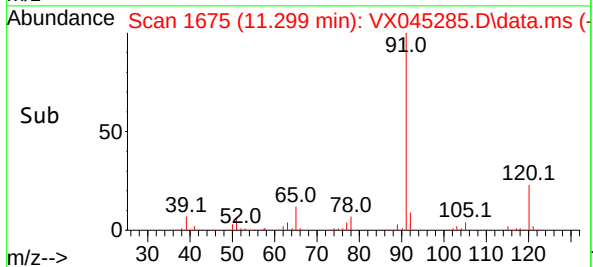
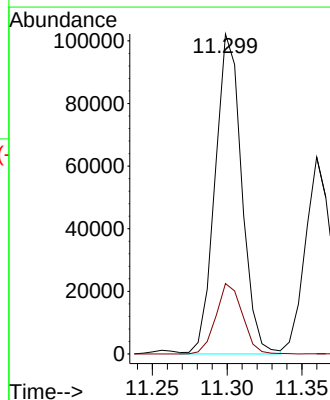
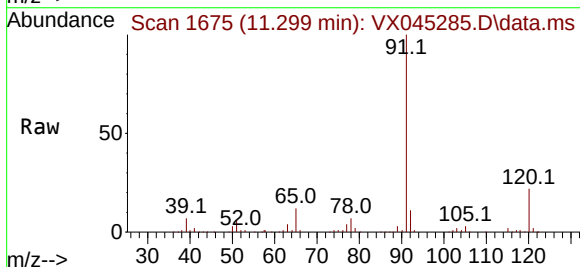
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

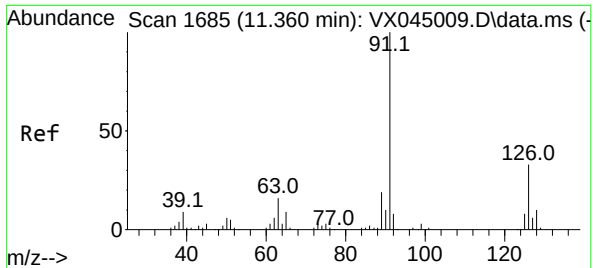
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 175.9 | 0.0   | 347.2 |
| 158     | 96.6  | 0.0   | 197.6 |



#74  
n-propylbenzene  
Concen: 19.974 ug/l  
RT: 11.299 min Scan# 1675  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 21.9  | 0.0   | 44.2  |

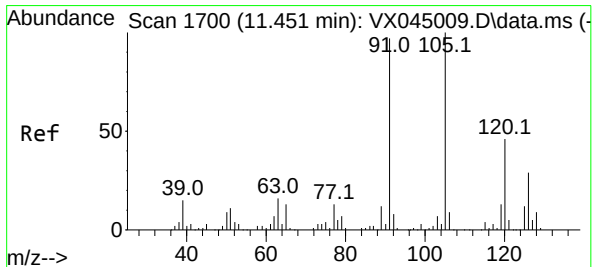
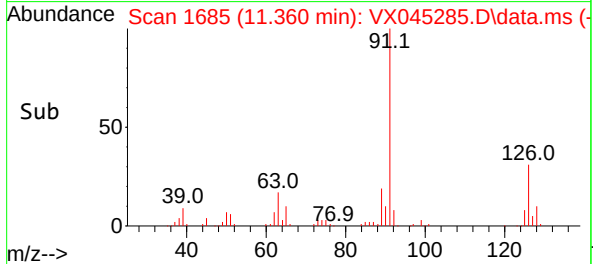
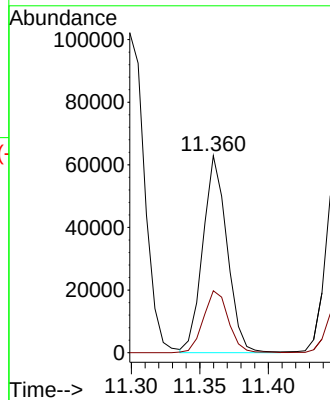
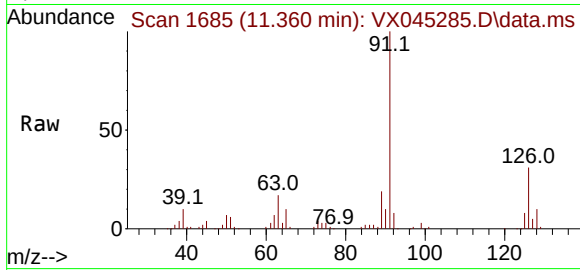




#75  
2-Chlorotoluene  
Concen: 20.266 ug/l  
RT: 11.360 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

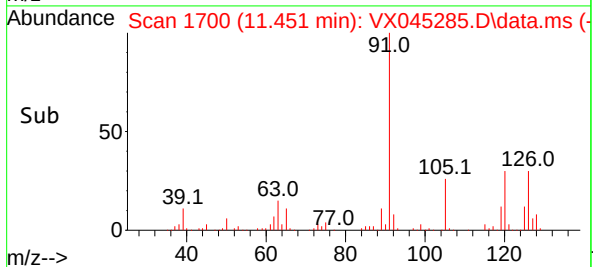
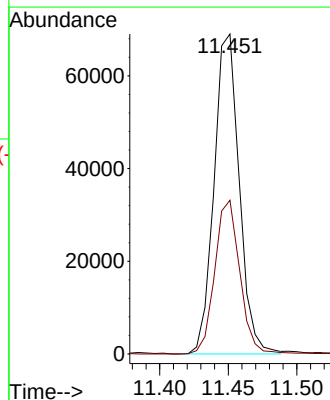
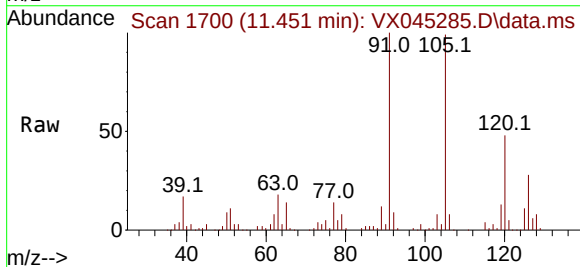
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

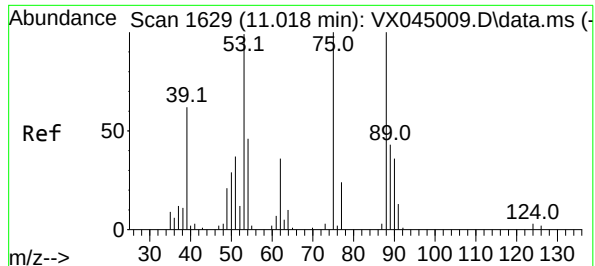
Tgt Ion: 91 Resp: 77599  
Ion Ratio Lower Upper  
91 100  
126 32.3 0.0 65.4



#76  
1,3,5-Trimethylbenzene  
Concen: 20.105 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion: 105 Resp: 88277  
Ion Ratio Lower Upper  
105 100  
120 47.9 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 19.050 ug/l

RT: 11.012 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

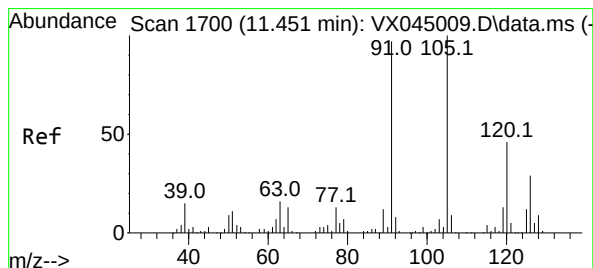
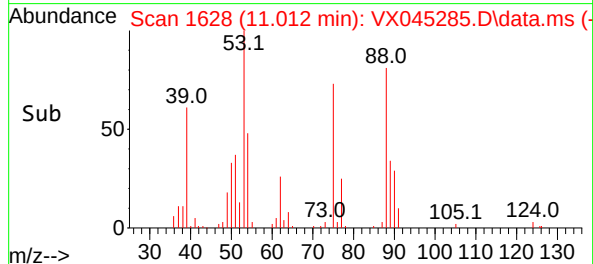
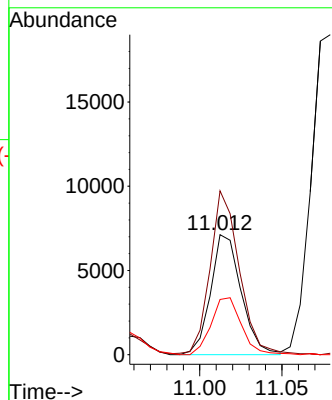
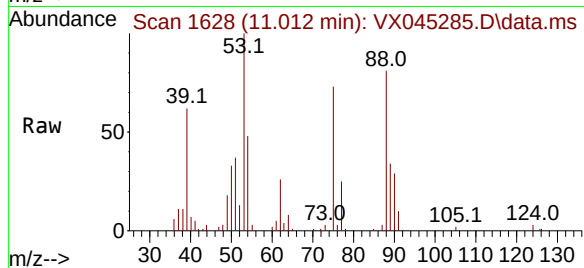
Tgt Ion: 75 Resp: 9226

Ion Ratio Lower Upper

75 100

53 135.3 49.8 149.4

89 46.0 21.4 64.2



#78

4-Chlorotoluene

Concen: 20.488 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045285.D

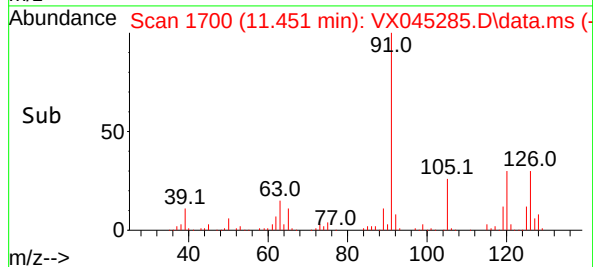
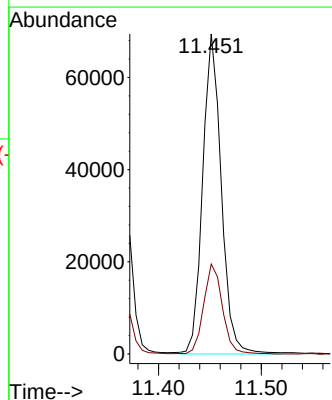
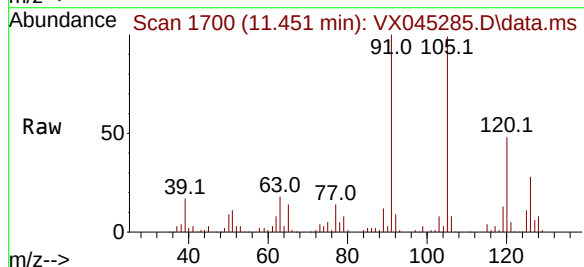
Acq: 14 Mar 2025 10:17

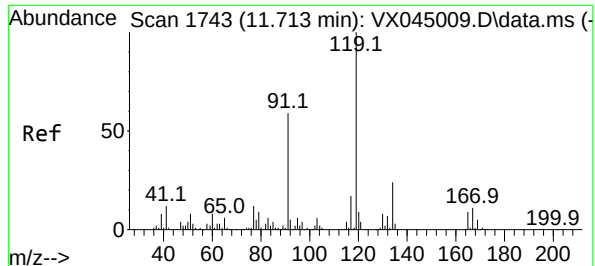
Tgt Ion: 91 Resp: 87449

Ion Ratio Lower Upper

91 100

126 28.2 0.0 58.0





#79

tert-butylbenzene

Concen: 20.139 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

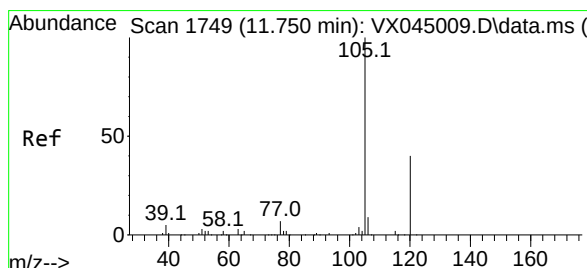
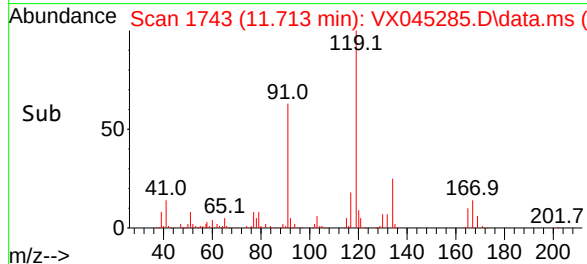
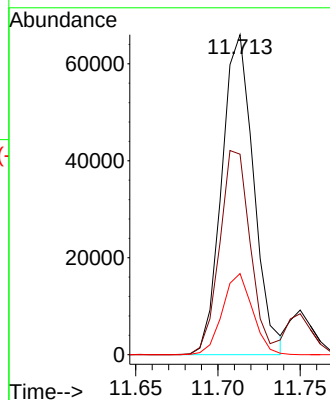
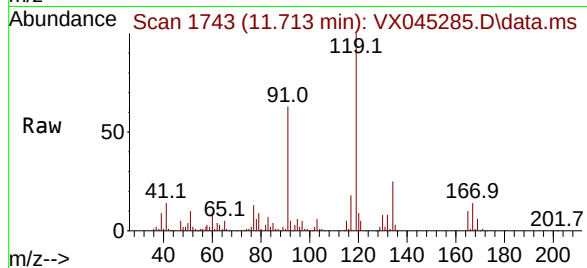
Tgt Ion:119 Resp: 89097

Ion Ratio Lower Upper

119 100

91 60.7 0.0 120.6

134 23.8 0.0 48.2



#80

1,2,4-Trimethylbenzene

Concen: 19.744 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX045285.D

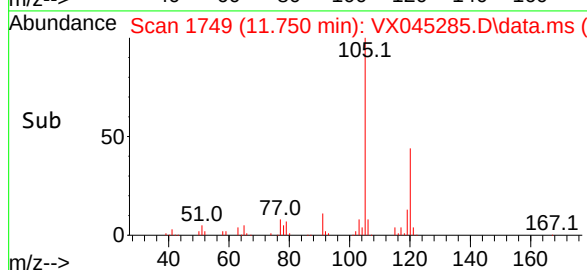
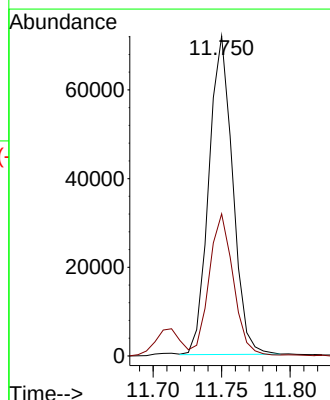
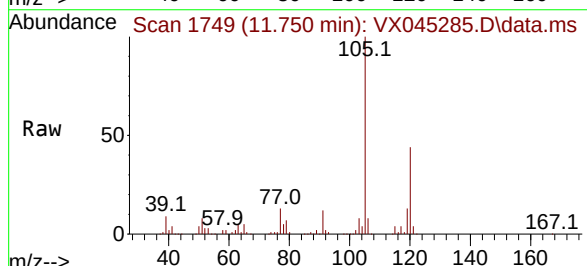
Acq: 14 Mar 2025 10:17

Tgt Ion:105 Resp: 86841

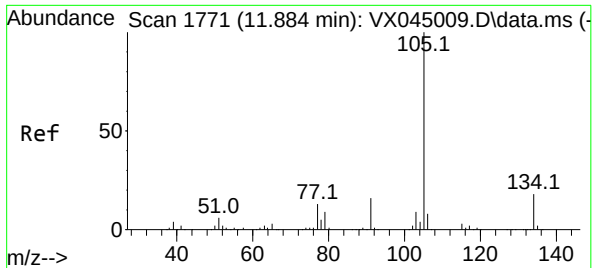
Ion Ratio Lower Upper

105 100

120 45.5 0.0 88.4



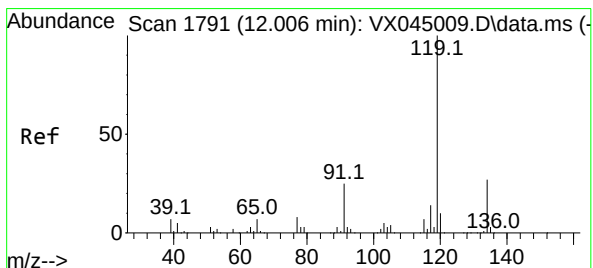
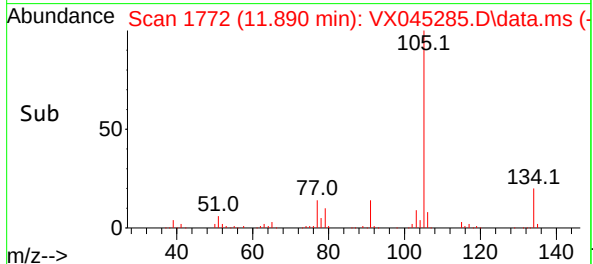
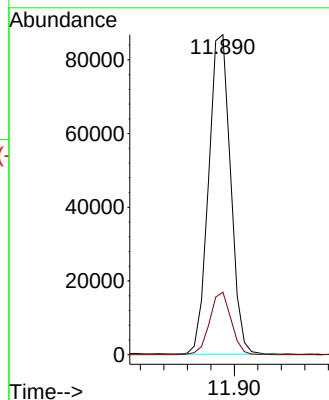
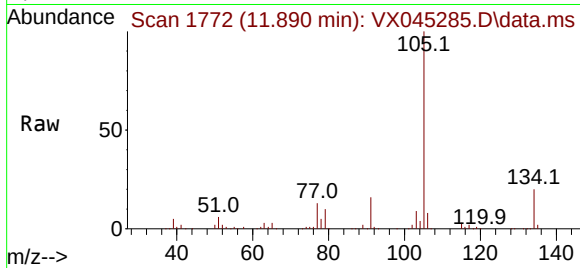




#81  
sec-Butylbenzene  
Concen: 20.283 ug/l  
RT: 11.890 min Scan# 1171  
Delta R.T. 0.006 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

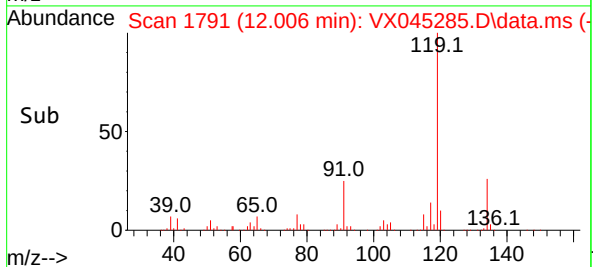
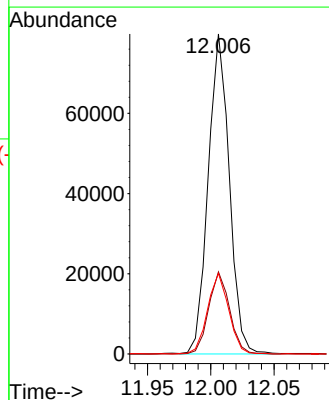
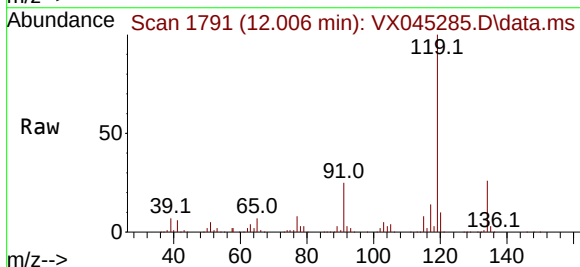
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

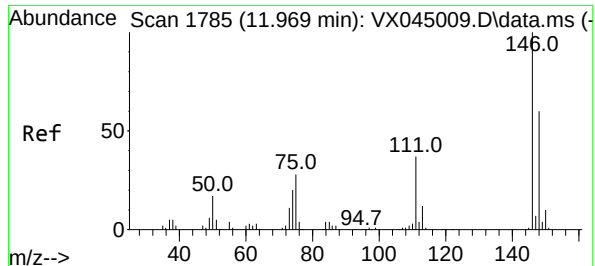
Tgt Ion:105 Resp: 112619  
Ion Ratio Lower Upper  
105 100  
134 19.1 0.0 39.0



#82  
p-Isopropyltoluene  
Concen: 20.597 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion:119 Resp: 92660  
Ion Ratio Lower Upper  
119 100  
134 25.4 0.0 52.6  
91 25.2 0.0 51.0





#83

1,3-Dichlorobenzene

Concen: 19.509 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

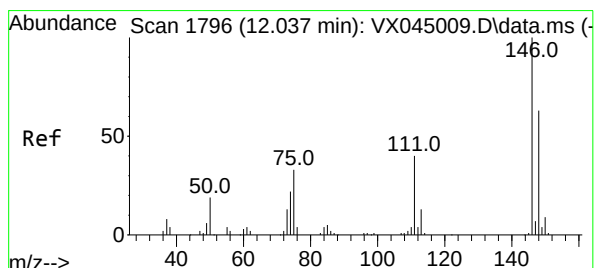
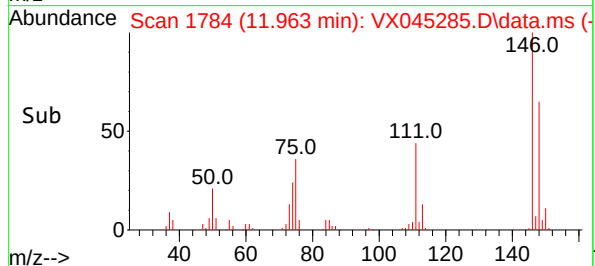
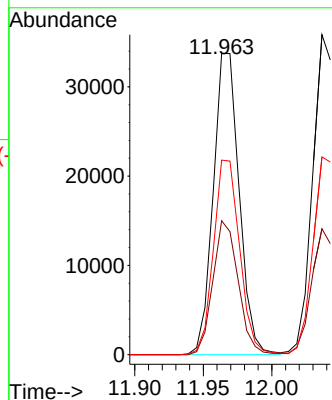
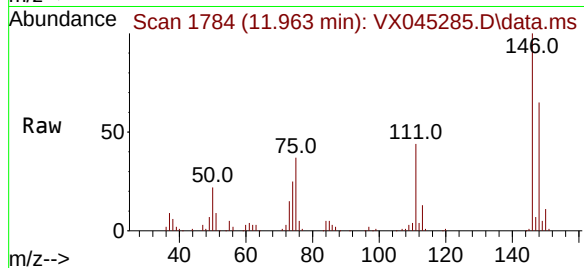
Tgt Ion:146 Resp: 44474

Ion Ratio Lower Upper

146 100

111 43.5 20.2 60.5

148 65.2 31.2 93.6



#84

1,4-Dichlorobenzene

Concen: 20.495 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

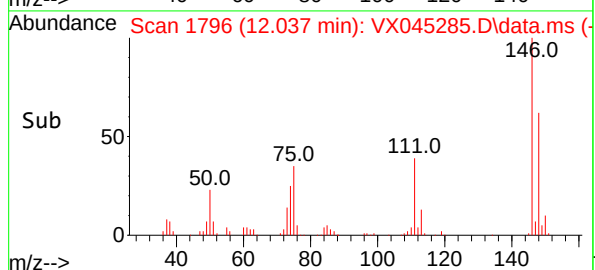
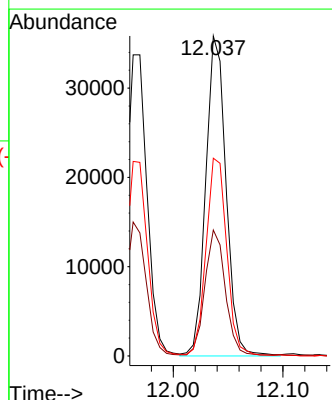
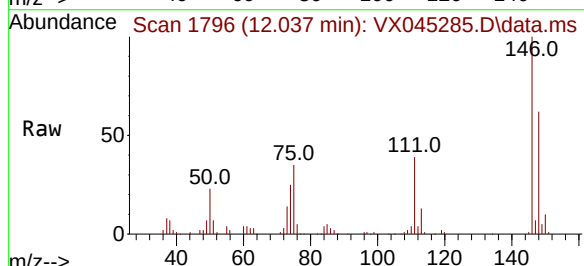
Tgt Ion:146 Resp: 46066

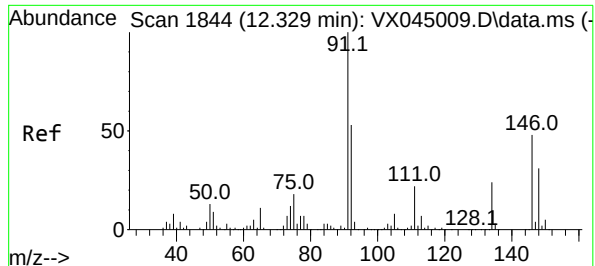
Ion Ratio Lower Upper

146 100

111 40.0 20.4 61.2

148 63.1 31.8 95.4





#85

n-Butylbenzene

Concen: 19.643 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

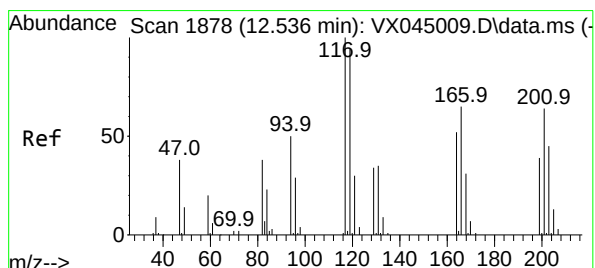
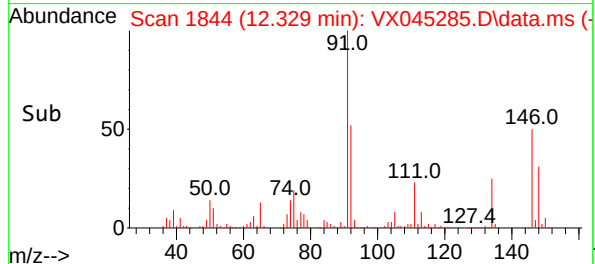
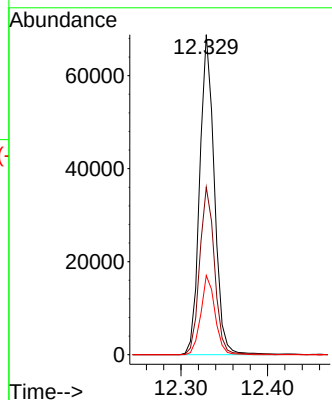
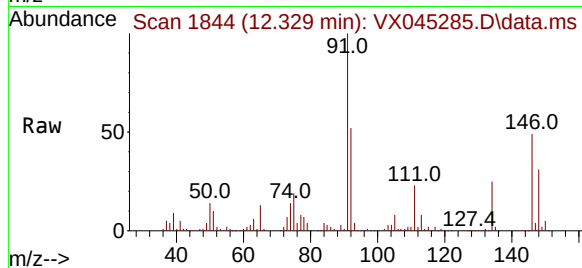
Tgt Ion: 91 Resp: 80698

Ion Ratio Lower Upper

91 100

92 52.8 0.0 105.2

134 24.0 0.0 49.4



#86

Hexachloroethane

Concen: 19.495 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045285.D

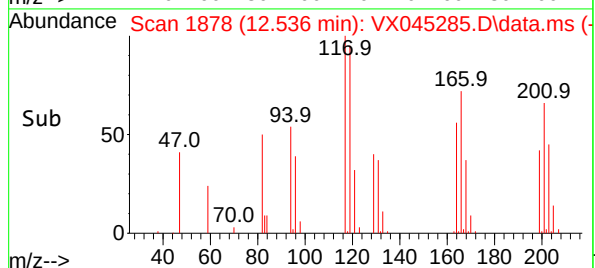
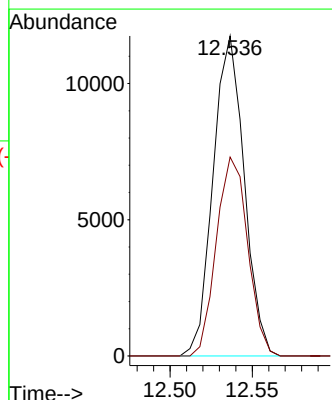
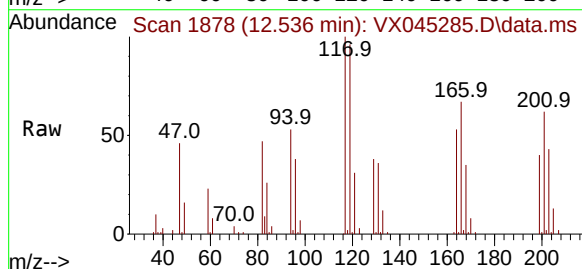
Acq: 14 Mar 2025 10:17

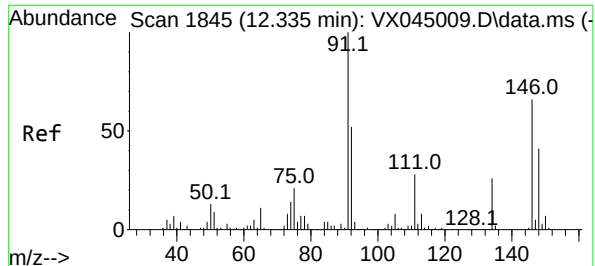
Tgt Ion: 117 Resp: 15467

Ion Ratio Lower Upper

117 100

201 62.5 32.6 97.7





#87

1,2-Dichlorobenzene

Concen: 20.841 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

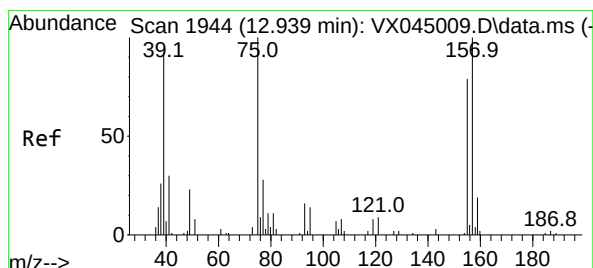
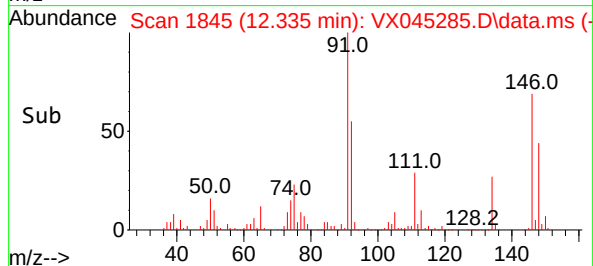
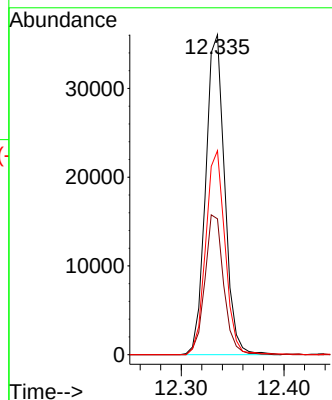
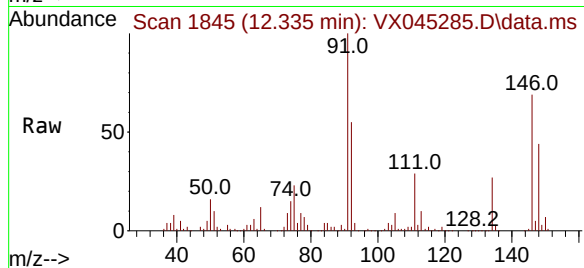
Tgt Ion:146 Resp: 46617

Ion Ratio Lower Upper

146 100

111 43.2 21.7 65.1

148 64.1 31.8 95.4



#88

1,2-Dibromo-3-Chloropropane

Concen: 22.612 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

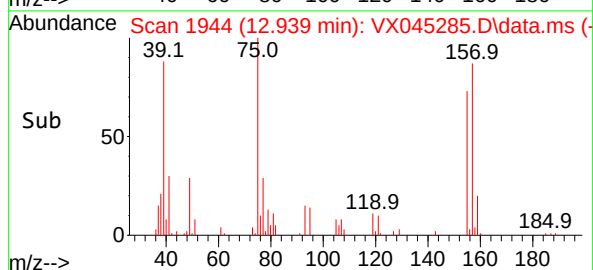
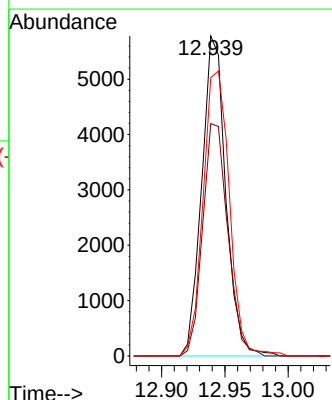
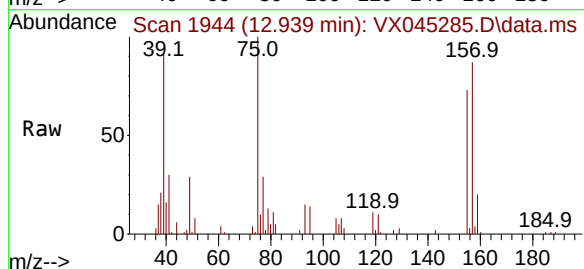
Tgt Ion: 75 Resp: 7662

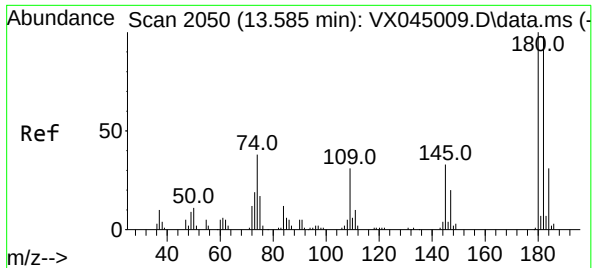
Ion Ratio Lower Upper

75 100

155 75.8 66.2 99.4

157 96.3 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 19.136 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

Instrument :

MSVOA\_X

ClientSampleId :

VSTDCCC020

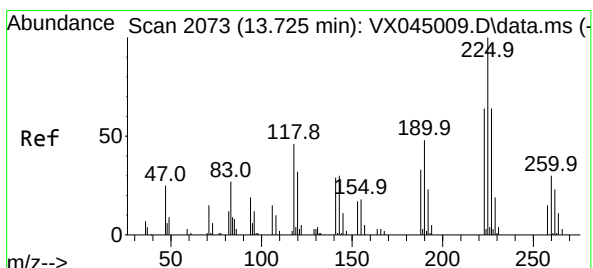
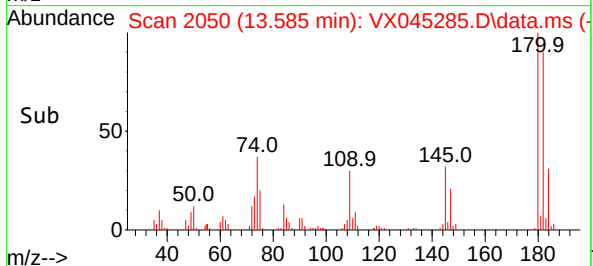
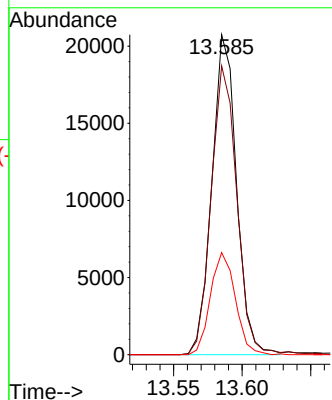
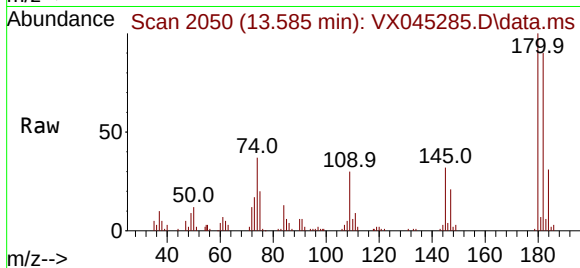
Tgt Ion:180 Resp: 25942

Ion Ratio Lower Upper

180 100

182 94.0 77.7 116.5

145 32.2 25.8 38.6



#90

Hexachlorobutadiene

Concen: 20.360 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX045285.D

Acq: 14 Mar 2025 10:17

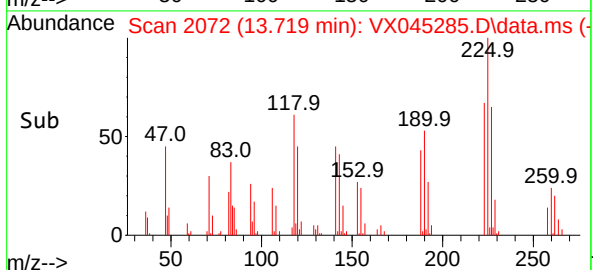
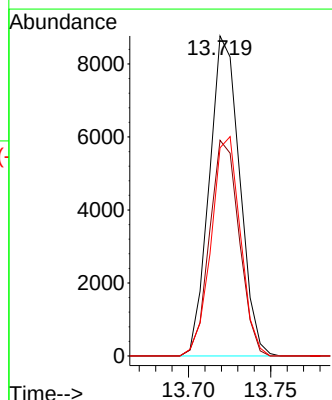
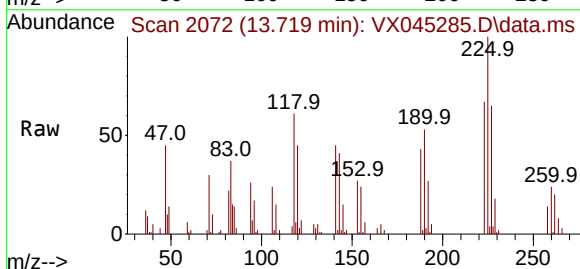
Tgt Ion:225 Resp: 11256

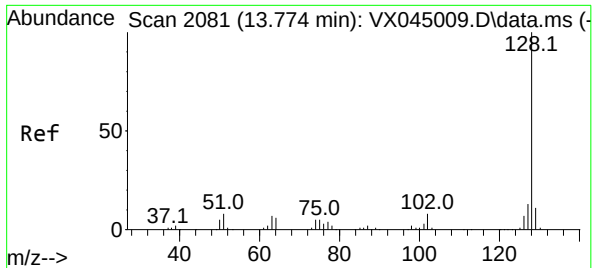
Ion Ratio Lower Upper

225 100

223 65.6 0.0 123.4

227 65.8 0.0 127.4

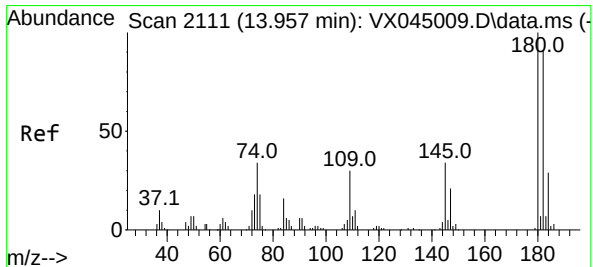
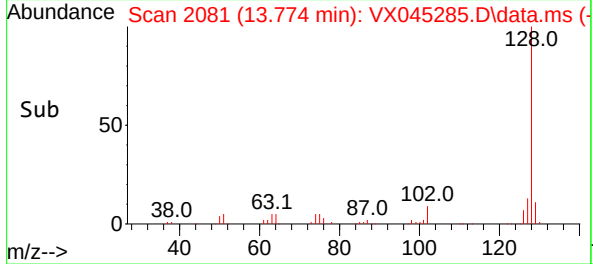
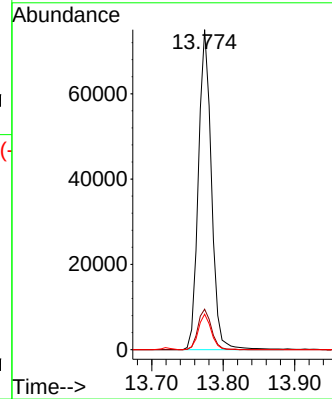
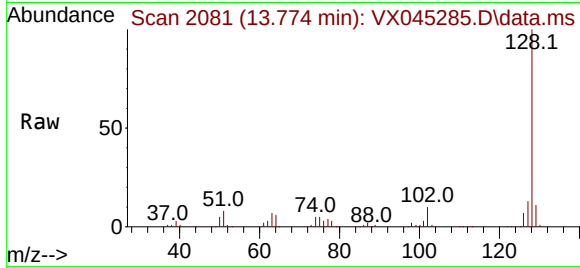




#91  
Naphthalene  
Concen: 19.806 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

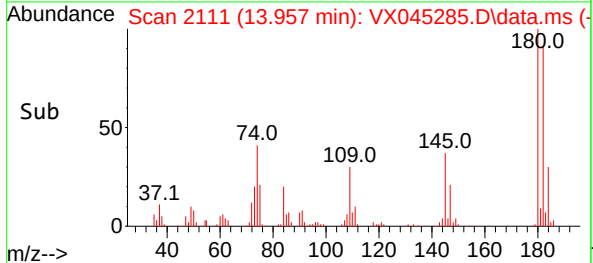
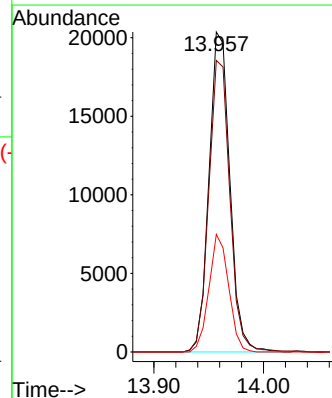
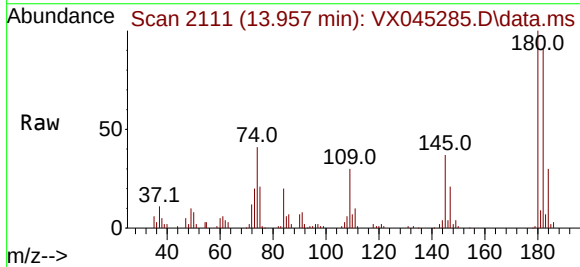
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC020

Tgt Ion:128 Resp: 94674  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.5 15.7  
129 10.9 8.7 13.1



#92  
1,2,3-Trichlorobenzene  
Concen: 19.250 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VX045285.D  
Acq: 14 Mar 2025 10:17

Tgt Ion:180 Resp: 26866  
Ion Ratio Lower Upper  
180 100  
182 92.3 0.0 186.6  
145 34.8 0.0 68.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 2.529 | 2.471 | 2.3    | 89    | 0.00     |
| 3 M  | Chloromethane               | 3.029 | 2.691 | 11.2   | 80    | 0.01     |
| 4 M  | Vinyl Chloride              | 2.923 | 2.354 | 19.5   | 74    | 0.00     |
| 5 M  | Bromomethane                | 1.017 | 1.071 | -5.3   | 97    | 0.00     |
| 6 M  | Chloroethane                | 1.583 | 1.373 | 13.3   | 73    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.928 | 3.534 | 10.0   | 85    | 0.00     |
| 8 T  | Diethyl Ether               | 1.486 | 1.188 | 20.1   | 74    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 2.333 | 2.264 | 3.0    | 92    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 2.279 | 2.129 | 6.6    | 88    | 0.00     |
| 11   | Methyl Iodide               | 2.579 | 2.541 | 1.5    | 104   | 0.00     |
| 12   | Methyl Acetate              | 2.646 | 3.825 | -44.6# | 138   | 0.00     |
| 13 M | Acrolein                    | 0.530 | 0.416 | 21.5   | 78    | 0.00     |
| 14 M | Acrylonitrile               | 1.293 | 1.379 | -6.7   | 99    | 0.00     |
| 15 M | Acetone                     | 0.355 | 0.394 | -11.0  | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 6.464 | 5.161 | 20.2   | 77    | 0.00     |
| 17   | Allyl chloride              | 4.262 | 3.969 | 6.9    | 89    | 0.00     |
| 18 M | Methylene Chloride          | 2.563 | 2.505 | 2.3    | 90    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 2.306 | 2.107 | 8.6    | 85    | 0.00     |
| 20 T | Diisopropyl ether           | 8.191 | 7.642 | 6.7    | 87    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 4.555 | 4.300 | 5.6    | 88    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.763 | 2.543 | 8.0    | 86    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.451 | 0.420 | 6.9    | 88    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 7.438 | 6.972 | 6.3    | 88    | 0.00     |
| 25 M | Chloroform                  | 4.400 | 4.393 | 0.2    | 92    | 0.00     |
| 26   | Cyclohexane                 | 4.205 | 3.748 | 10.9   | 83    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.914 | 3.149 | -8.1   | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.552 | 0.529 | 4.2    | 85    | 0.00     |
| 30 M | 2-Butanone                  | 0.319 | 0.373 | -16.9  | 103   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.624 | 0.553 | 11.4   | 81    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.669 | 0.678 | -1.3   | 90    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.564 | 0.574 | -1.8   | 90    | 0.00     |
| 34 M | Benzene                     | 1.731 | 1.704 | 1.6    | 86    | 0.00     |
| 35   | Methacrylonitrile           | 0.341 | 0.381 | -11.7  | 98    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.592 | 0.650 | -9.8   | 96    | 0.00     |
| 37 M | Trichloroethene             | 0.405 | 0.384 | 5.2    | 82    | 0.00     |
| 38   | Methylcyclohexane           | 0.741 | 0.685 | 7.6    | 84    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.430 | 0.434 | -0.9   | 88    | 0.00     |
| 40   | Dibromomethane              | 0.309 | 0.319 | -3.2   | 91    | 0.00     |
| 41 M | Bromodichloromethane        | 0.614 | 0.616 | -0.3   | 89    | 0.00     |
| 42 M | Vinyl Acetate               | 1.237 | 1.168 | 5.6    | 84    | 0.00     |
| 43   | Ethyl Acetate               | 0.598 | 0.616 | -3.0   | 91    | 0.00     |
| 44   | Isopropyl Acetate           | 0.984 | 0.988 | -0.4   | 92    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.010 | 0.009 | 10.0   | 77    | 0.00     |
| 46   | Methyl methacrylate         | 0.482 | 0.508 | -5.4   | 95    | 0.00     |
| 47   | n-amyl Acetate              | 0.854 | 0.826 | 3.3    | 88    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.591 | 0.536 | 9.3    | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.670 | 0.624 | 6.9   | 84    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.403 | 0.416 | -3.2  | 88    | 0.00     |
| 51   | Ethyl methacrylate          | 0.633 | 0.618 | 2.4   | 91    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.706 | 0.729 | -3.3  | 89    | 0.00     |
| 53 M | Dibromochloromethane        | 0.445 | 0.457 | -2.7  | 90    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.409 | 0.415 | -1.5  | 89    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.325 | 0.324 | 0.3   | 89    | 0.00     |
| 56 M | Bromoform                   | 0.279 | 0.288 | -3.2  | 96    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.682 | 0.810 | -18.8 | 101   | 0.00     |
| 59 M | 2-Hexanone                  | 0.493 | 0.584 | -18.5 | 101   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.561 | 0.568 | -1.2  | 86    | 0.00     |
| 61 M | Tetrachloroethene           | 0.369 | 0.390 | -5.7  | 90    | 0.00     |
| 62 M | Toluene                     | 1.987 | 1.976 | 0.6   | 86    | 0.00     |
| 63 S | Toluene-d8                  | 1.660 | 1.716 | -3.4  | 87    | 0.00     |
| 64 M | Chlorobenzene               | 1.231 | 1.229 | 0.2   | 86    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.406 | 0.414 | -2.0  | 89    | 0.00     |
| 66 M | Ethyl Benzene               | 2.176 | 2.166 | 0.5   | 87    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.811 | 0.799 | 1.5   | 83    | 0.00     |
| 68 M | o-Xylene                    | 0.795 | 0.783 | 1.5   | 83    | 0.00     |
| 69 M | Styrene                     | 1.328 | 1.299 | 2.2   | 84    | 0.00     |
| 70   | Isopropylbenzene            | 2.053 | 2.090 | -1.8  | 87    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.675 | 0.771 | -14.2 | 98    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.555 | 0.639 | -15.1 | 100   | 0.00     |
| 73   | Bromobenzene                | 0.473 | 0.475 | -0.4  | 86    | 0.00     |
| 74   | n-propylbenzene             | 2.443 | 2.439 | 0.2   | 87    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.477 | 1.496 | -1.3  | 86    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.693 | 1.702 | -0.5  | 85    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.187 | 0.178 | 4.8   | 94    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.646 | 1.686 | -2.4  | 88    | 0.00     |
| 79   | tert-butylbenzene           | 1.706 | 1.718 | -0.7  | 85    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.696 | 1.675 | 1.2   | 83    | 0.00     |
| 81   | sec-Butylbenzene            | 2.141 | 2.172 | -1.4  | 87    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.735 | 1.787 | -3.0  | 89    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.879 | 0.858 | 2.4   | 83    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.867 | 0.888 | -2.4  | 88    | 0.00     |
| 85   | n-Butylbenzene              | 1.584 | 1.556 | 1.8   | 87    | 0.00     |
| 86 T | Hexachloroethane            | 0.306 | 0.298 | 2.6   | 90    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.863 | 0.899 | -4.2  | 88    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.131 | 0.148 | -13.0 | 104   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.523 | 0.500 | 4.4   | 86    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.213 | 0.217 | -1.9  | 88    | 0.00     |
| 91 M | Naphthalene                 | 1.843 | 1.826 | 0.9   | 87    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.538 | 0.518 | 3.7   | 84    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 89    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 19.545  | 2.3    | 89    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.771  | 11.1   | 80    | 0.01     |
| 4 M  | Vinyl Chloride              | 20.000  | 16.107  | 19.5   | 74    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 21.048  | -5.2   | 97    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 17.343  | 13.3   | 73    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 17.994  | 10.0   | 85    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 15.986  | 20.1   | 74    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.409  | 3.0    | 92    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 18.680  | 6.6    | 88    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 19.703  | 1.5    | 104   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 28.908  | -44.5# | 138   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 78.465  | 21.5   | 78    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 106.663 | -6.7   | 99    | 0.00     |
| 15 M | Acetone                     | 100.000 | 111.052 | -11.1  | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 15.969  | 20.2   | 77    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.625  | 6.9    | 89    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 19.546  | 2.3    | 90    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 18.275  | 8.6    | 85    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 18.659  | 6.7    | 87    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.881  | 5.6    | 88    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.410  | 7.9    | 86    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 93.108  | 6.9    | 88    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 18.747  | 6.3    | 88    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.966  | 0.2    | 92    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 17.826  | 10.9   | 83    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 32.419  | -8.1   | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 86    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 19.187  | 4.1    | 85    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 117.046 | -17.0  | 103   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 17.719  | 11.4   | 81    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.269  | -1.3   | 90    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.334  | -1.7   | 90    | 0.00     |
| 34 M | Benzene                     | 20.000  | 19.687  | 1.6    | 86    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 22.317  | -11.6  | 98    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 21.942  | -9.7   | 96    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.972  | 5.1    | 82    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 18.496  | 7.5    | 84    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 20.160  | -0.8   | 88    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 20.639  | -3.2   | 91    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.089  | -0.4   | 89    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 94.389  | 5.6    | 84    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 20.606  | -3.0   | 91    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 20.091  | -0.5   | 92    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 364.913 | 8.8    | 77    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 21.040  | -5.2   | 95    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.340  | 3.3    | 88    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 18.110  | 9.5    | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045285.D  
 Acq On : 14 Mar 2025 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 15 03:51:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 18.650  | 6.8   | 84    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 20.674  | -3.4  | 88    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.522  | 2.4   | 91    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 20.648  | -3.2  | 89    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.529  | -2.6  | 90    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.276  | -1.4  | 89    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 99.705  | 0.3   | 89    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 20.621  | -3.1  | 96    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 85    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 118.678 | -18.7 | 101   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 118.305 | -18.3 | 101   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.362  | -1.2  | 86    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.091  | -5.5  | 90    | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.886  | 0.6   | 86    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 31.019  | -3.4  | 87    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.960  | 0.2   | 86    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.375  | -1.9  | 89    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.913  | 0.4   | 87    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 39.449  | 1.4   | 83    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.698  | 1.5   | 83    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.557  | 2.2   | 84    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.364  | -1.8  | 87    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 22.853  | -14.3 | 98    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 23.032  | -15.2 | 100   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.096  | -0.5  | 86    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 19.974  | 0.1   | 87    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 20.266  | -1.3  | 86    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 20.105  | -0.5  | 85    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 19.050  | 4.7   | 94    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.488  | -2.4  | 88    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 20.139  | -0.7  | 85    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.744  | 1.3   | 83    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.283  | -1.4  | 87    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 20.597  | -3.0  | 89    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.509  | 2.5   | 83    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 20.495  | -2.5  | 88    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.643  | 1.8   | 87    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.495  | 2.5   | 90    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.841  | -4.2  | 88    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 22.612  | -13.1 | 104   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 19.136  | 4.3   | 86    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 20.360  | -1.8  | 88    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 19.806  | 1.0   | 87    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 19.250  | 3.8   | 84    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



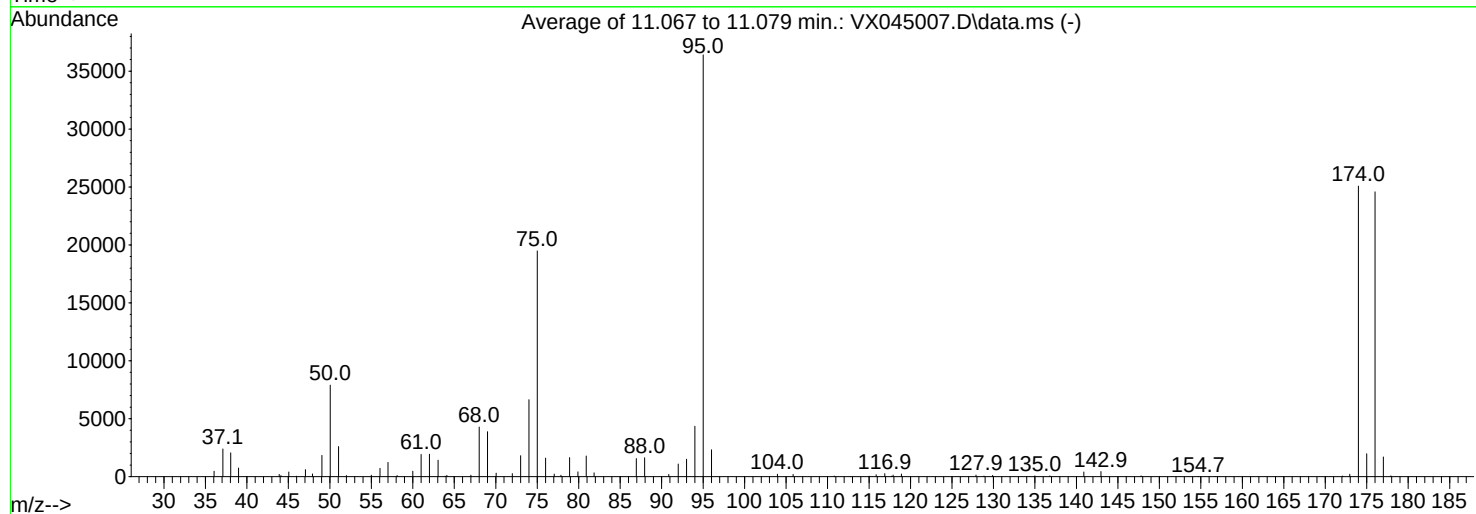
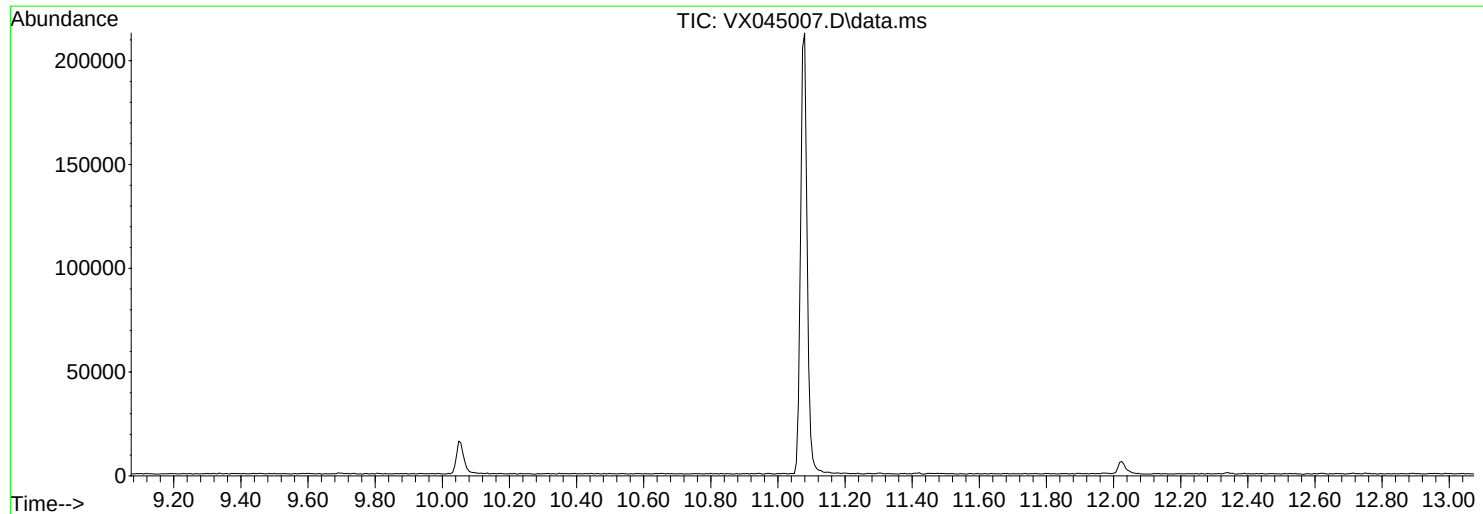
# QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022125\  
Data File : VX045007.D  
Acq On : 21 Feb 2025 09:31  
Operator : JC/MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
Last Update : Sat Feb 22 01:06:36 2025



AutoFind: Scans 1637, 1638, 1639; Background Corrected with Scan 1632

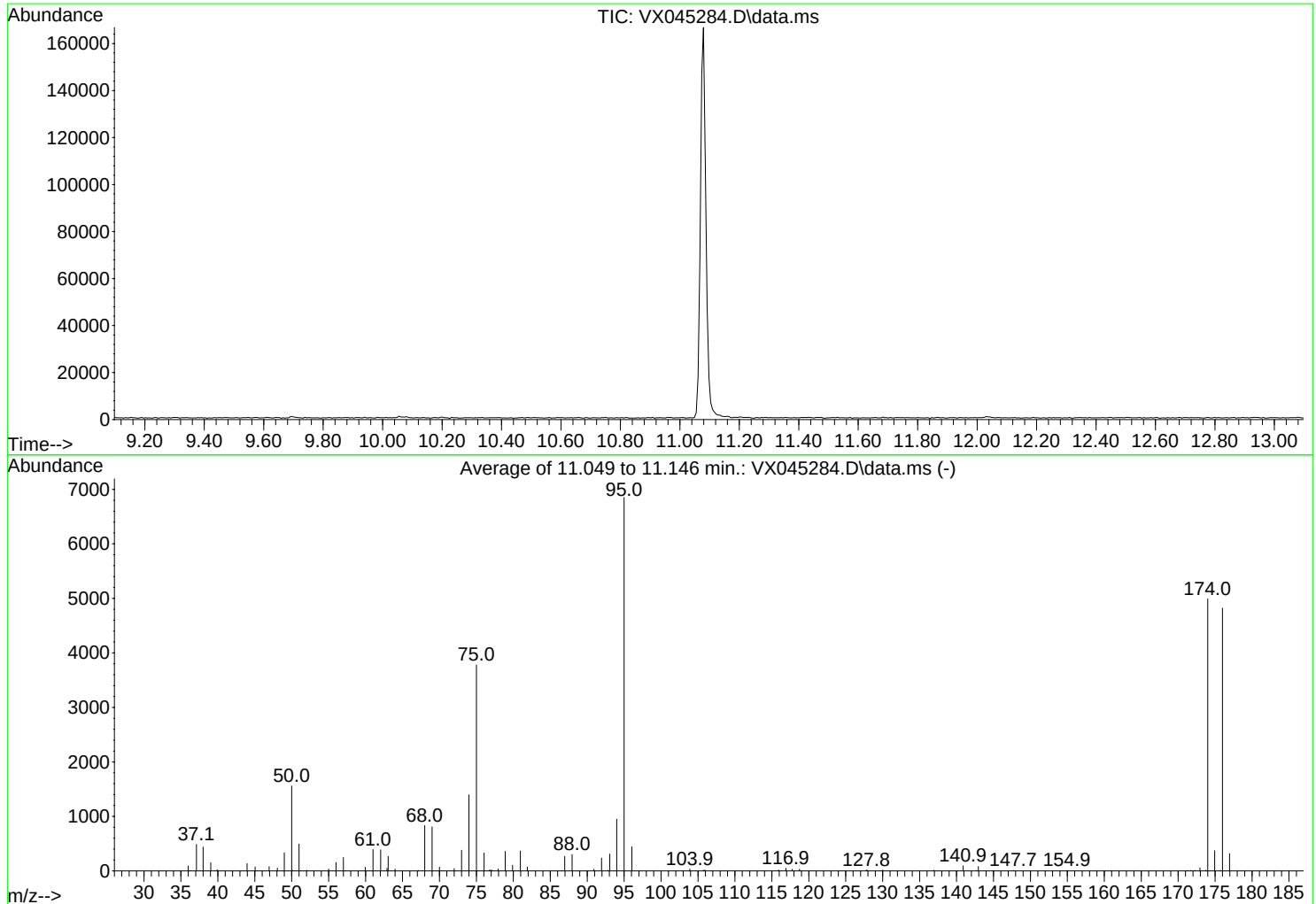
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 15              | 40              | 21.7         | 7903       | PASS                |
| 75             | 95              | 30              | 60              | 53.5         | 19493      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 36408      | PASS                |
| 96             | 95              | 5               | 9               | 6.4          | 2318       | PASS                |
| 173            | 174             | 0.00            | 2               | 0.8          | 213        | PASS                |
| 174            | 95              | 50              | 100             | 68.9         | 25081      | PASS                |
| 175            | 174             | 5               | 9               | 7.9          | 1979       | PASS                |
| 176            | 174             | 95              | 101             | 98.0         | 24589      | PASS                |
| 177            | 176             | 5               | 9               | 6.9          | 1695       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
Data File : VX045284.D  
Acq On : 14 Mar 2025 09:28  
Operator : JC/MD  
Sample : BFB  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
Last Update : Sat Feb 22 01:06:36 2025



AutoFind: Averaged scan 1634 to 1650; Bkg corrected with scan 1633

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw  | Result    |
|--------|---------|--------|--------|-------|------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn  | Pass/Fail |
| 50     | 95      | 15     | 40     | 22.8  | 1559 | PASS      |
| 75     | 95      | 30     | 60     | 55.2  | 3779 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 6851 | PASS      |
| 96     | 95      | 5      | 9      | 6.5   | 445  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.2   | 58   | PASS      |
| 174    | 95      | 50     | 100    | 72.8  | 4989 | PASS      |
| 175    | 174     | 5      | 9      | 7.4   | 371  | PASS      |
| 176    | 174     | 95     | 101    | 96.7  | 4822 | PASS      |
| 177    | 176     | 5      | 9      | 6.6   | 320  | PASS      |

## Report of Analysis

|                    |                          |        |      |                 |          |
|--------------------|--------------------------|--------|------|-----------------|----------|
| Client:            | Tully Environmental, Inc |        |      | Date Collected: |          |
| Project:           | Transfer Station-SPDES   |        |      | Date Received:  |          |
| Client Sample ID:  | VX0314WBL01              |        |      | SDG No.:        | Q1495    |
| Lab Sample ID:     | VX0314WBL01              |        |      | Matrix:         | Water    |
| Analytical Method: | E624.1                   |        |      | % Solid:        | 0        |
| Sample Wt/Vol:     | 5                        | Units: | mL   | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  |                          |        | uL   | Test:           | VOC-BTEX |
| GC Column:         | DB-624UI                 | ID :   | 0.18 | Level :         | LOW      |
| Prep Method :      |                          |        |      |                 |          |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX045288.D        | 1         |           | 03/14/25 11:40 | VX031425      |

| CAS Number         | Parameter             | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|--------------------|-----------------------|-------|-----------|----------|------------|---------|
| TARGETS            |                       |       |           |          |            |         |
| 71-43-2            | Benzene               | 0.45  | U         | 0.45     | 5.00       | ug/L    |
| 108-88-3           | Toluene               | 0.46  | U         | 0.46     | 5.00       | ug/L    |
| 100-41-4           | Ethyl Benzene         | 0.56  | U         | 0.56     | 5.00       | ug/L    |
| 179601-23-1        | m/p-Xylenes           | 1.30  | U         | 1.30     | 10.0       | ug/L    |
| 95-47-6            | o-Xylene              | 0.67  | U         | 0.67     | 5.00       | ug/L    |
| SURROGATES         |                       |       |           |          |            |         |
| 17060-07-0         | 1,2-Dichloroethane-d4 | 32.6  |           | 91 - 110 | 109%       | SPK: 30 |
| 2037-26-5          | Toluene-d8            | 30.7  |           | 91 - 112 | 102%       | SPK: 30 |
| 460-00-4           | 4-Bromofluorobenzene  | 27.3  |           | 63 - 112 | 91%        | SPK: 30 |
| INTERNAL STANDARDS |                       |       |           |          |            |         |
| 74-97-5            | Bromochloromethane    | 14600 | 4.891     |          |            |         |
| 540-36-3           | 1,4-Difluorobenzene   | 76000 | 6.757     |          |            |         |
| 3114-55-4          | Chlorobenzene-d5      | 67400 | 10.055    |          |            |         |

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\_X\Data\VX031425\  
Data File : VX045288.D  
Acq On : 14 Mar 2025 11:40  
Operator : JC/MD  
Sample : VX0314WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBL01

Quant Time: Mar 15 03:56:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 4.891  | 128  | 14558    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.757  | 114  | 75988    | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.055 | 117  | 67387    | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 46128    | 32.623   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 108.733% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 34413    | 27.322   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 91.067%  |
| 63) Toluene-d8              | 8.647  | 98    | 114622   | 30.746   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 102.500% |

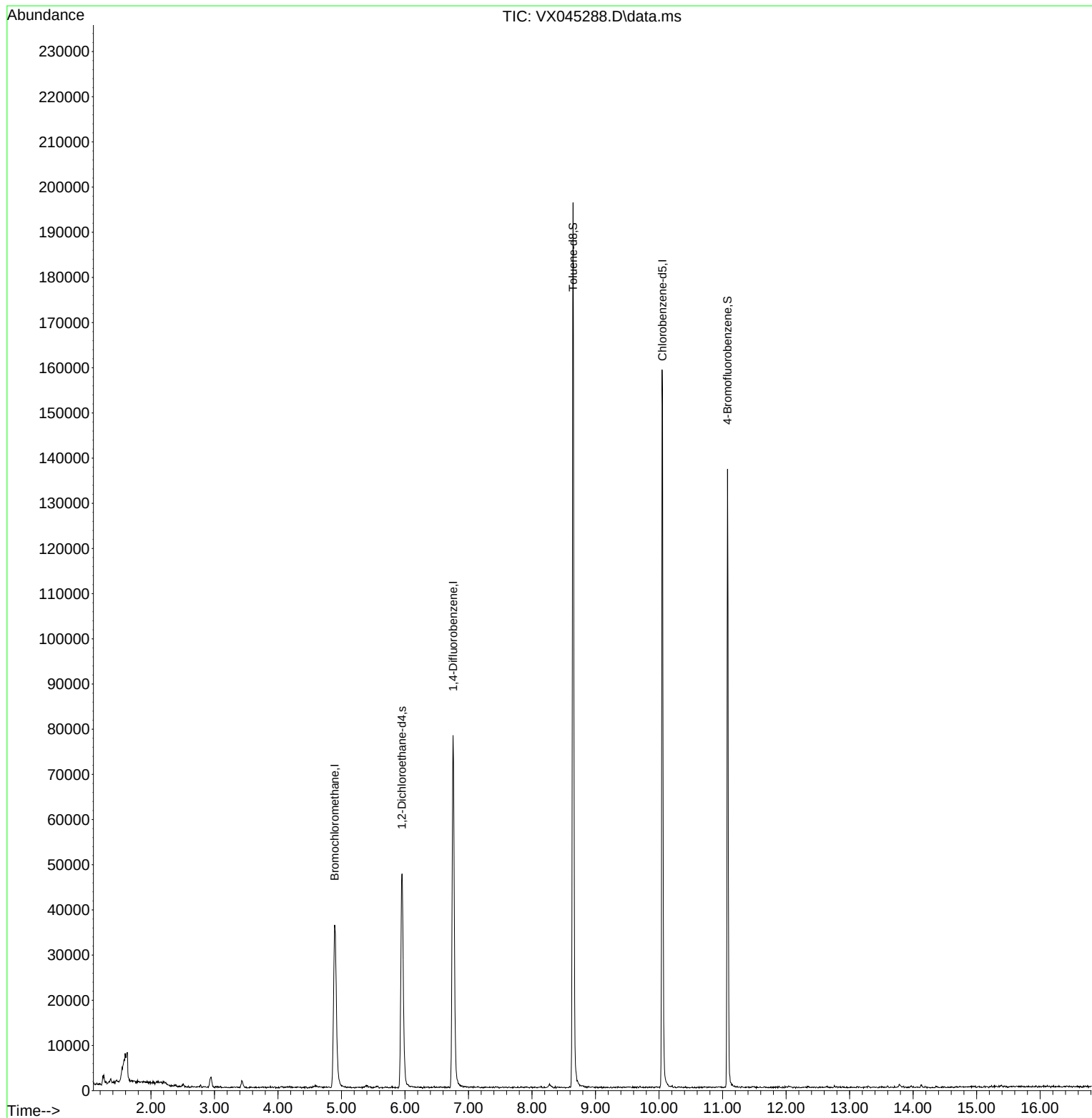
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

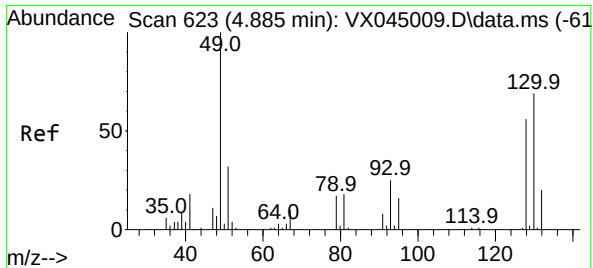
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
Data File : VX045288.D  
Acq On : 14 Mar 2025 11:40  
Operator : JC/MD  
Sample : VX0314WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBL01

Quant Time: Mar 15 03:56:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration







#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.891 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045288.D

Acq: 14 Mar 2025 11:40

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBL01

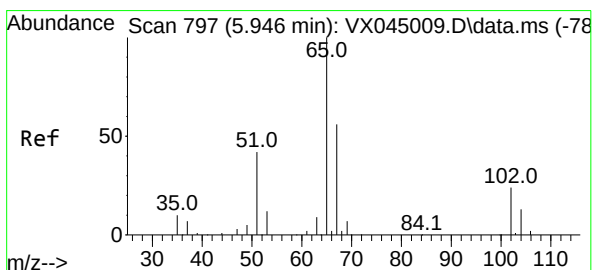
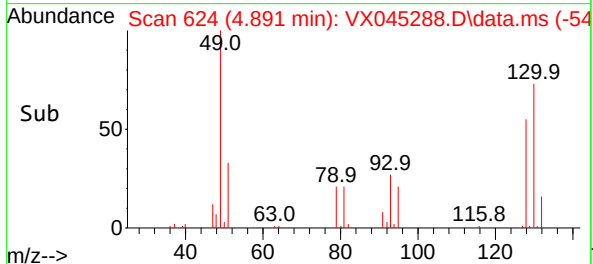
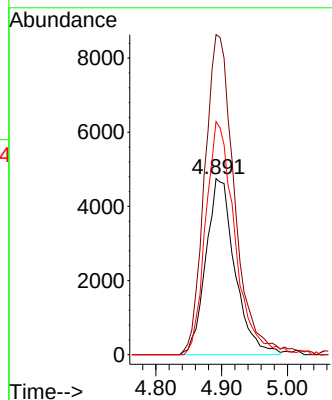
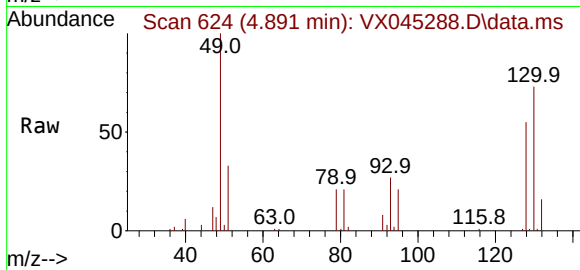
Tgt Ion:128 Resp: 14558

Ion Ratio Lower Upper

128 100

49 185.5 0.0 449.7

130 133.7 0.0 312.7



#27

1,2-Dichloroethane-d4

Concen: 32.623 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX045288.D

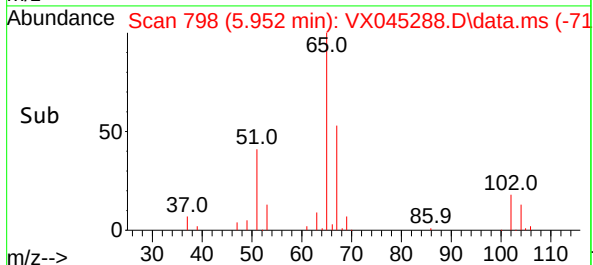
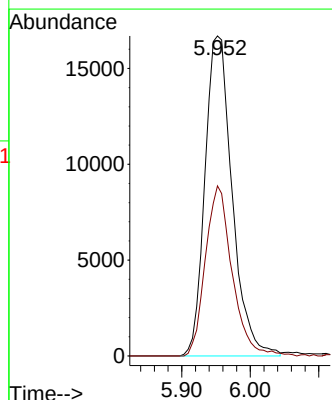
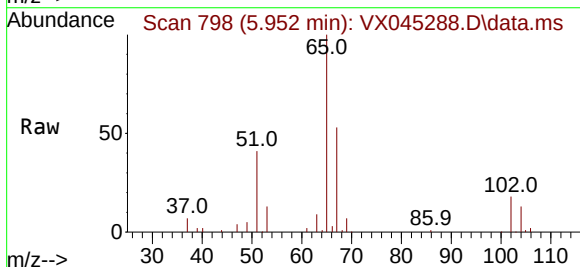
Acq: 14 Mar 2025 11:40

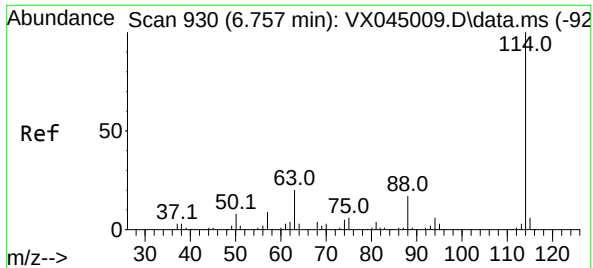
Tgt Ion: 65 Resp: 46128

Ion Ratio Lower Upper

65 100

67 52.2 42.6 64.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045288.D

Acq: 14 Mar 2025 11:40

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBL01

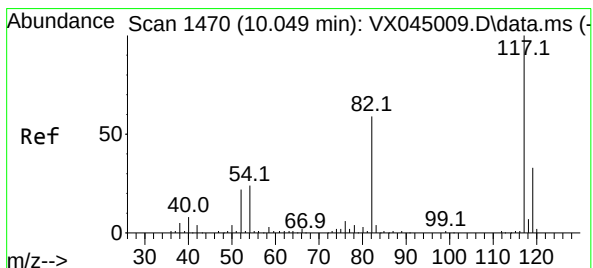
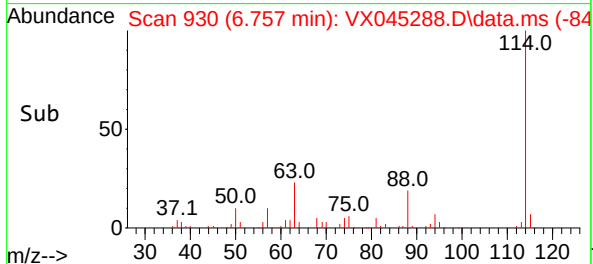
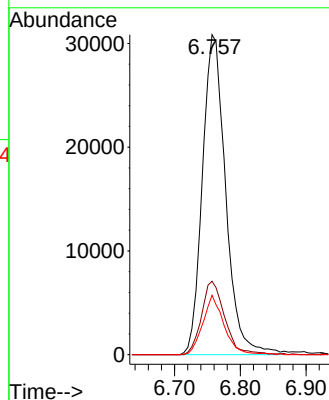
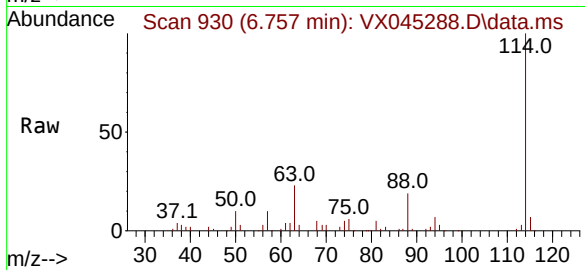
Tgt Ion:114 Resp: 75988

Ion Ratio Lower Upper

114 100

63 22.8 16.8 25.2

88 16.8 12.7 19.1



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX045288.D

Acq: 14 Mar 2025 11:40

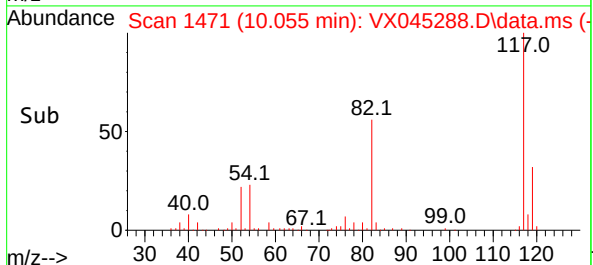
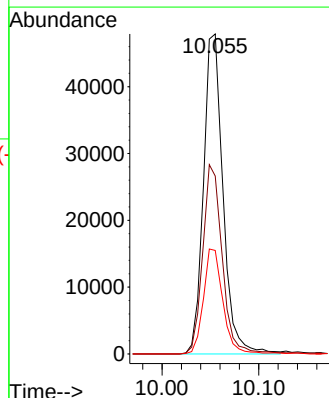
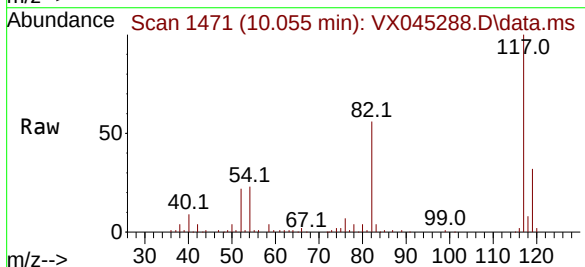
Tgt Ion:117 Resp: 67387

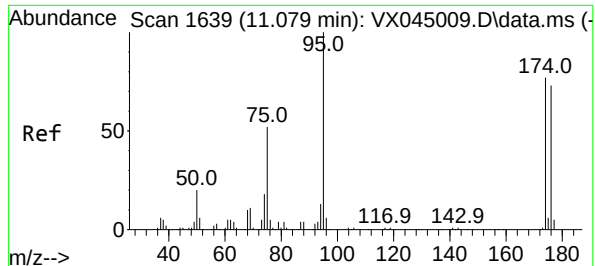
Ion Ratio Lower Upper

117 100

82 59.3 45.8 68.8

119 32.4 25.5 38.3

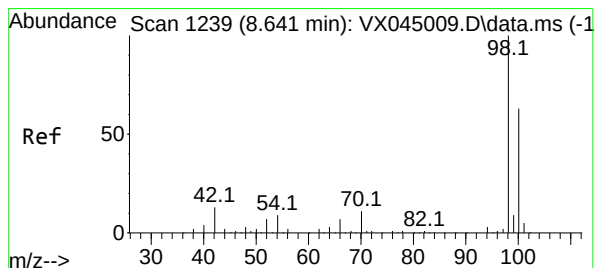
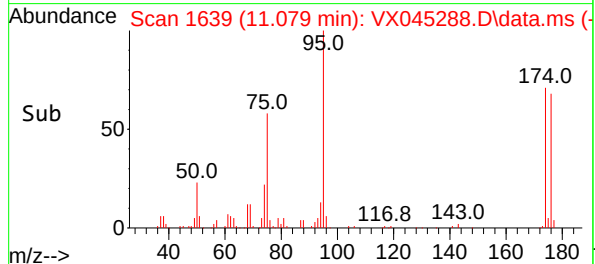
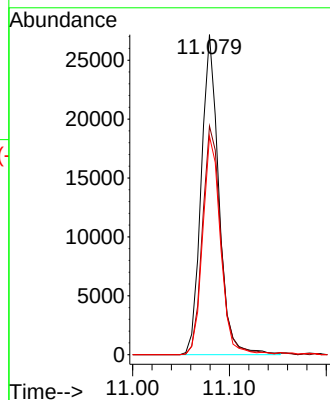
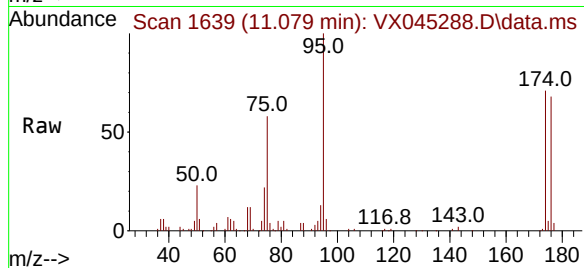




#60  
4-Bromofluorobenzene  
Concen: 27.322 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045288.D  
Acq: 14 Mar 2025 11:40

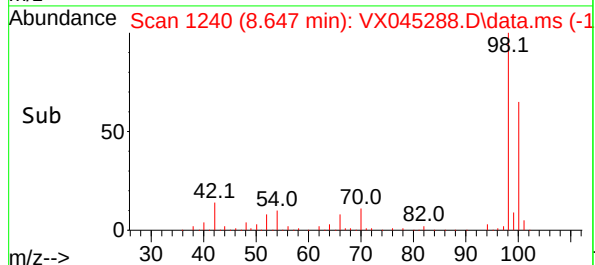
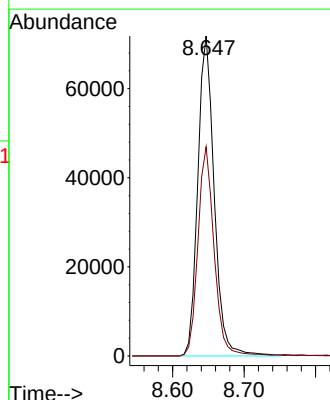
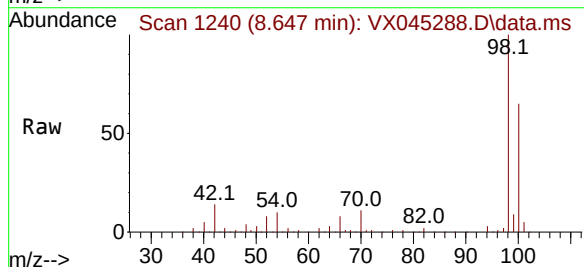
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBL01

Tgt Ion: 95 Resp: 34413  
Ion Ratio Lower Upper  
95 100  
174 75.1 59.5 89.3  
176 69.0 55.5 83.3



#63  
Toluene-d8  
Concen: 30.746 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VX045288.D  
Acq: 14 Mar 2025 11:40

Tgt Ion: 98 Resp: 114622  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.7 77.5



## Report of Analysis

|                    |                          |                 |          |
|--------------------|--------------------------|-----------------|----------|
| Client:            | Tully Environmental, Inc | Date Collected: |          |
| Project:           | Transfer Station-SPDES   | Date Received:  |          |
| Client Sample ID:  | VX0314WBS01              | SDG No.:        | Q1495    |
| Lab Sample ID:     | VX0314WBS01              | Matrix:         | Water    |
| Analytical Method: | E624.1                   | % Solid:        | 0        |
| Sample Wt/Vol:     | 5                        | Units:          | mL       |
| Soil Aliquot Vol:  |                          |                 | uL       |
| GC Column:         | DB-624UI                 | ID :            | 0.18     |
| Prep Method :      |                          | Level :         | LOW      |
|                    |                          | Final Vol:      | 5000     |
|                    |                          | Test:           | VOC-BTEX |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VX045286.D        | 1         |           | 03/14/25 10:50 | VX031425      |

| CAS Number                | Parameter             | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|-----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                       |       |           |          |            |         |
| 71-43-2                   | Benzene               | 18.6  |           | 0.45     | 5.00       | ug/L    |
| 108-88-3                  | Toluene               | 19.1  |           | 0.46     | 5.00       | ug/L    |
| 100-41-4                  | Ethyl Benzene         | 19.1  |           | 0.56     | 5.00       | ug/L    |
| 179601-23-1               | m/p-Xylenes           | 38.5  |           | 1.30     | 10.0       | ug/L    |
| 95-47-6                   | o-Xylene              | 19.3  |           | 0.67     | 5.00       | ug/L    |
| <b>SURROGATES</b>         |                       |       |           |          |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4 | 33.0  |           | 91 - 110 | 110%       | SPK: 30 |
| 2037-26-5                 | Toluene-d8            | 30.9  |           | 91 - 112 | 103%       | SPK: 30 |
| 460-00-4                  | 4-Bromofluorobenzene  | 30.8  |           | 63 - 112 | 103%       | SPK: 30 |
| <b>INTERNAL STANDARDS</b> |                       |       |           |          |            |         |
| 74-97-5                   | Bromochloromethane    | 16000 | 4.891     |          |            |         |
| 540-36-3                  | 1,4-Difluorobenzene   | 88500 | 6.757     |          |            |         |
| 3114-55-4                 | Chlorobenzene-d5      | 80700 | 10.049    |          |            |         |

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\_X\Data\VX031425\  
 Data File : VX045286.D  
 Acq On : 14 Mar 2025 10:50  
 Operator : JC/MD  
 Sample : VX0314WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

Quant Time: Mar 15 03:52:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 4.891  | 128   | 16027    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114   | 88526    | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5         | 10.049 | 117   | 80688    | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4    | 5.946  | 65    | 51350    | 32.988   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | = 109.967% |          |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 46424    | 30.782   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | = 102.600% |          |
| 63) Toluene-d8               | 8.646  | 98    | 137890   | 30.891   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | = 102.967% |          |
| Target Compounds             |        |       |          |          |            |          |
|                              |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 26148    | 19.354   | ug/l       | 92       |
| 3) Chloromethane             | 1.300  | 50    | 28918    | 17.870   | ug/l       | 95       |
| 4) Vinyl Chloride            | 1.373  | 62    | 25871    | 16.568   | ug/l       | 100      |
| 5) Bromomethane              | 1.593  | 94    | 11125    | 20.468   | ug/l       | 98       |
| 6) Chloroethane              | 1.666  | 64    | 14379    | 17.002   | ug/l       | 100      |
| 7) Trichlorofluoromethane    | 1.867  | 101   | 37504    | 17.870   | ug/l       | 93       |
| 8) Diethyl Ether             | 2.129  | 74    | 12666    | 15.951   | ug/l       | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.318  | 101   | 24242    | 19.449   | ug/l       | 97       |
| 10) 1,1-Dichloroethene       | 2.306  | 96    | 22775    | 18.707   | ug/l       | 84       |
| 11) Methyl Iodide            | 2.440  | 142   | 27411    | 19.892   | ug/l       | 98       |
| 12) Methyl Acetate           | 2.702  | 43    | 40788    | 28.850   | ug/l       | 98       |
| 13) Acrolein                 | 2.233  | 56    | 24059    | 84.899   | ug/l       | 100      |
| 14) Acrylonitrile            | 3.062  | 53    | 72442    | 104.901  | ug/l       | 97       |
| 15) Acetone                  | 2.385  | 58    | 22646    | 119.570  | ug/l       | 95       |
| 16) Carbon Disulfide         | 2.501  | 76    | 53918    | 15.613   | ug/l       | 99       |
| 17) Allyl chloride           | 2.654  | 41    | 41715    | 18.319   | ug/l       | 98       |
| 18) Methylene Chloride       | 2.782  | 84    | 26057    | 19.028   | ug/l       | 98       |
| 19) trans-1,2-Dichloroethene | 3.080  | 96    | 22728    | 18.452   | ug/l       | 92       |
| 20) Diisopropyl ether        | 3.757  | 45    | 83369    | 19.052   | ug/l       | 92       |
| 21) 1,1-Dichloroethane       | 3.599  | 63    | 46141    | 18.960   | ug/l       | 100      |
| 22) cis-1,2-Dichloroethene   | 4.476  | 96    | 27141    | 18.388   | ug/l       | 95       |
| 23) tert-Butyl Alcohol       | 2.977  | 59    | 21962    | 91.097   | ug/l #     | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73    | 74561    | 18.764   | ug/l       | 97       |
| 25) Chloroform               | 5.080  | 83    | 45989    | 19.564   | ug/l       | 98       |
| 26) Cyclohexane              | 5.458  | 56    | 39967    | 17.792   | ug/l #     | 97       |
| 29) 1,1-Dichloropropene      | 5.690  | 75    | 30317    | 18.617   | ug/l       | 99       |
| 30) 2-Butanone               | 4.556  | 43    | 106830   | 113.578  | ug/l       | 99       |
| 31) 2,2-Dichloropropane      | 4.464  | 77    | 31589    | 17.155   | ug/l       | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373  | 97    | 37094    | 18.800   | ug/l       | 98       |
| 33) Carbon Tetrachloride     | 5.665  | 117   | 32166    | 19.317   | ug/l       | 93       |
| 34) Benzene                  | 6.031  | 78    | 95210    | 18.644   | ug/l       | 97       |
| 35) Methacrylonitrile        | 4.922  | 41    | 21141    | 21.004   | ug/l       | 97       |
| 36) 1,2-Dichloroethane       | 6.080  | 62    | 35379    | 20.235   | ug/l       | 97       |
| 37) Trichloroethene          | 7.122  | 130   | 22590    | 18.908   | ug/l       | 98       |
| 38) Methylcyclohexane        | 7.372  | 83    | 40108    | 18.343   | ug/l       | 99       |
| 39) 1,2-Dichloropropane      | 7.427  | 63    | 24251    | 19.101   | ug/l       | 98       |
| 40) Dibromomethane           | 7.580  | 93    | 18375    | 20.168   | ug/l       | 97       |
| 41) Bromodichloromethane     | 7.817  | 83    | 35807    | 19.774   | ug/l       | 98       |
| 42) Vinyl Acetate            | 3.714  | 43    | 332676   | 91.144   | ug/l       | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045286.D  
 Acq On : 14 Mar 2025 10:50  
 Operator : JC/MD  
 Sample : VX0314WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

Quant Time: Mar 15 03:52:57 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

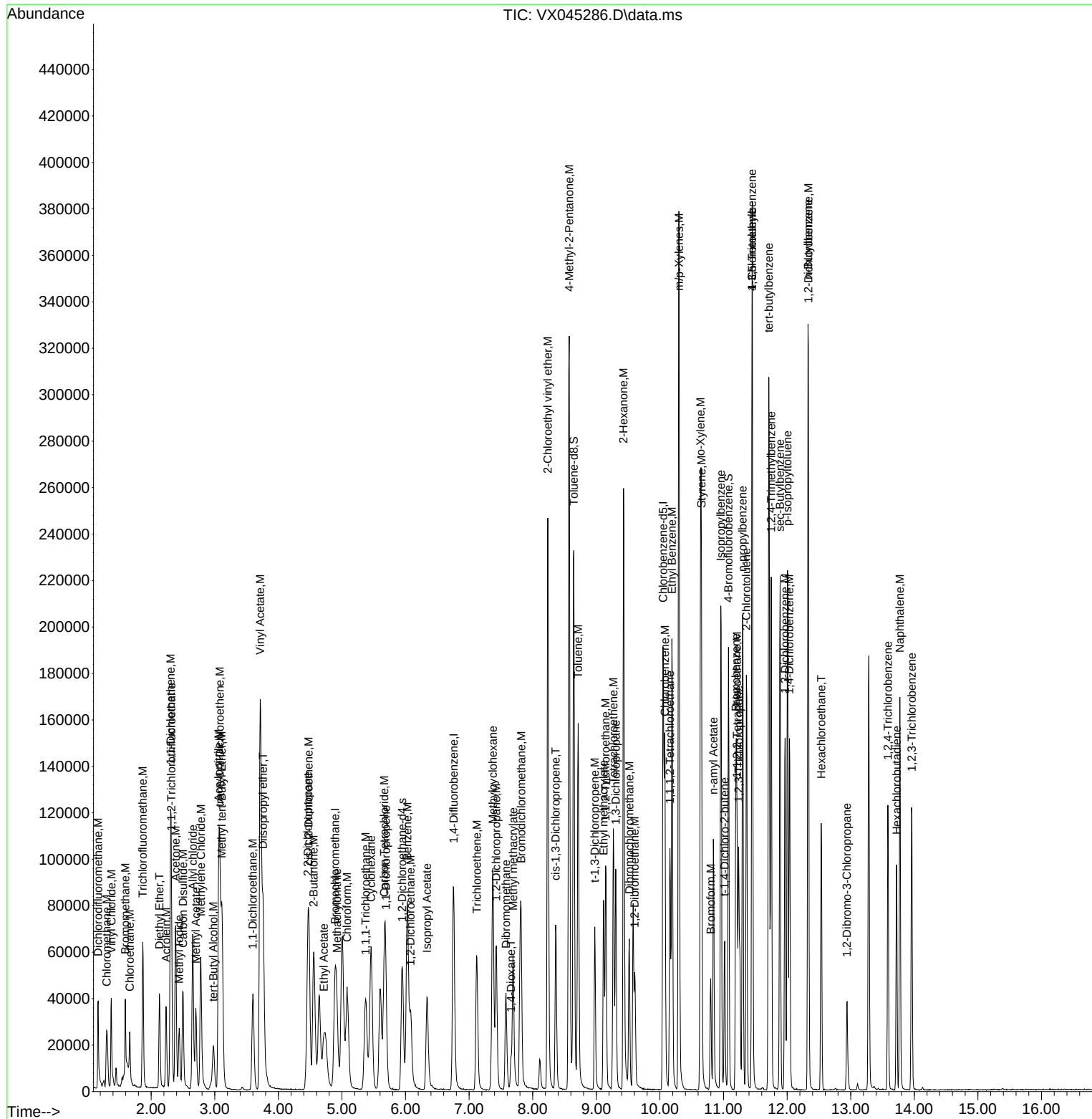
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.714  | 43   | 35199    | 19.955  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 55917    | 19.261  | ug/l  | 97       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 10638    | 352.489 | ug/l  | 97       |
| 46) Methyl methacrylate       | 7.689  | 41   | 28686    | 20.151  | ug/l  | 93       |
| 47) n-amyl Acetate            | 10.841 | 43   | 47912    | 19.019  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 29844    | 17.099  | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 34894    | 17.661  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane     | 9.146  | 97   | 22966    | 19.325  | ug/l  | 92       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 35374    | 18.927  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 41412    | 19.888  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 26074    | 19.838  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 23935    | 19.834  | ug/l  | 97       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 95369    | 99.365  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 15851    | 19.246  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.573  | 43   | 202990   | 110.592 | ug/l  | 100      |
| 59) 2-Hexanone                | 9.427  | 43   | 150297   | 113.286 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.268  | 164  | 19861    | 19.989  | ug/l  | 98       |
| 62) Toluene                   | 8.714  | 91   | 102099   | 19.101  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.079 | 112  | 62926    | 18.998  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 20981    | 19.197  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 111664   | 19.082  | ug/l  | 94       |
| 67) m/p-Xylenes               | 10.299 | 106  | 84024    | 38.538  | ug/l  | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 41215    | 19.266  | ug/l  | 99       |
| 69) Styrene                   | 10.652 | 104  | 67348    | 18.850  | ug/l  | 97       |
| 70) Isopropylbenzene          | 10.957 | 105  | 108595   | 19.671  | ug/l  | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 37905    | 20.881  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.237 | 75   | 30748m   | 20.593  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 24655    | 19.400  | ug/l  | 97       |
| 74) n-propylbenzene           | 11.298 | 91   | 127460   | 19.402  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.359 | 91   | 78036    | 19.648  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 88806    | 19.499  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 9001     | 17.918  | ug/l  | 75       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 86271    | 19.486  | ug/l  | 97       |
| 79) tert-butylbenzene         | 11.713 | 119  | 89649    | 19.537  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 90836    | 19.911  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.890 | 105  | 112033   | 19.453  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 91002    | 19.502  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 45537    | 19.258  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 44970    | 19.289  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 81061    | 19.023  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 15708    | 19.087  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 46343    | 19.975  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.938 | 75   | 7473     | 21.262  | ug/l  | 92       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 25507    | 18.140  | ug/l  | 97       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 11137    | 19.421  | ug/l  | 97       |
| 91) Naphthalene               | 13.774 | 128  | 93373    | 18.832  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 26807    | 18.518  | ug/l  | 98       |

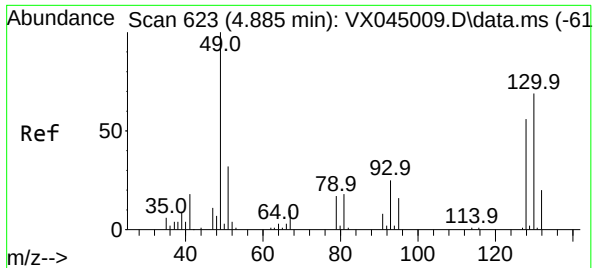
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Acq On : 14 Mar 2025 10:50  
Operator : JC/MD  
Sample : VX0314WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

Quant Time: Mar 15 03:52:57 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration

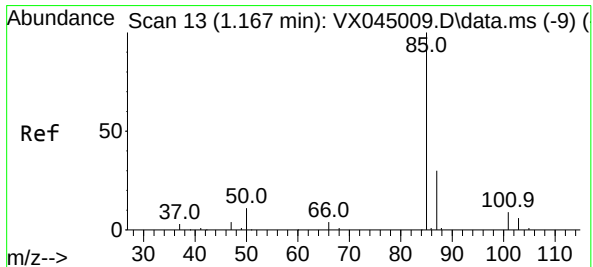
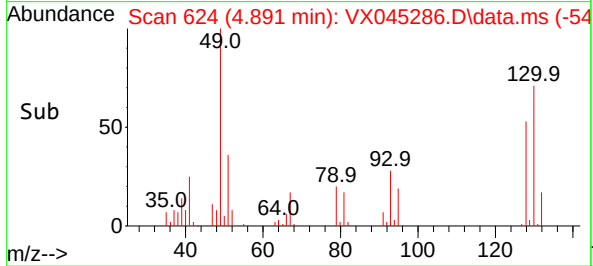
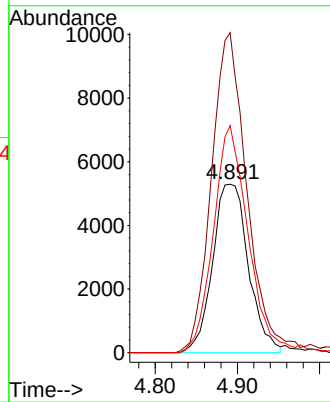
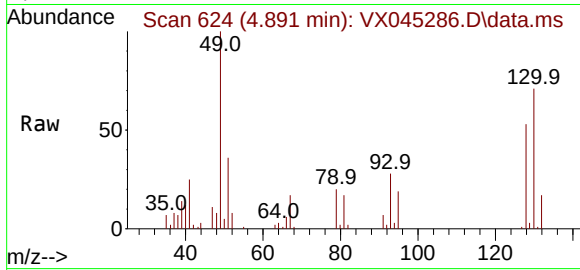




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.891 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

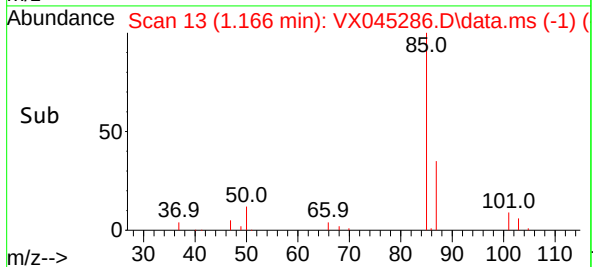
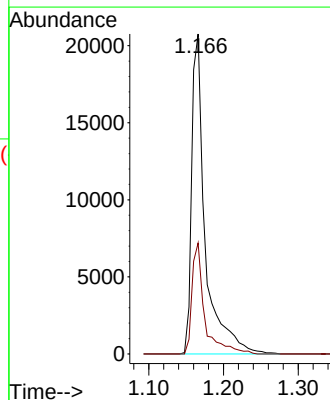
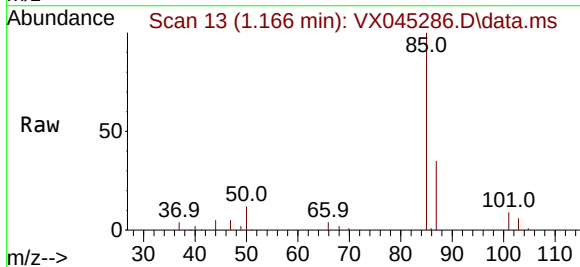
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

Tgt Ion:128 Resp: 16027  
Ion Ratio Lower Upper  
128 100  
49 185.9 0.0 449.7  
130 130.4 0.0 312.7

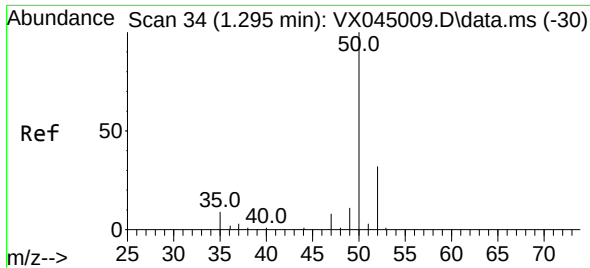


#2  
Dichlorodifluoromethane  
Concen: 19.354 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 85 Resp: 26148  
Ion Ratio Lower Upper  
85 100  
87 34.7 15.1 45.3



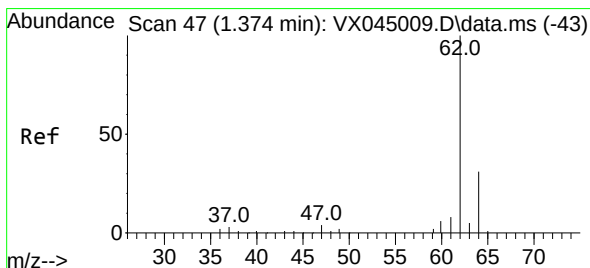
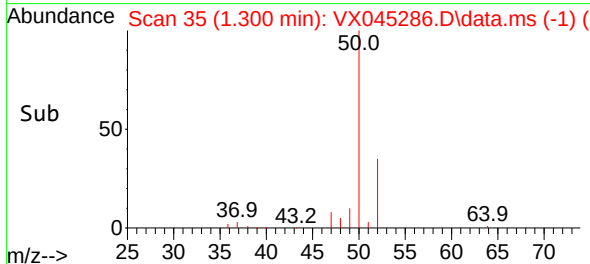
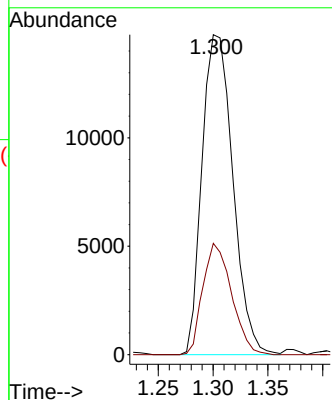
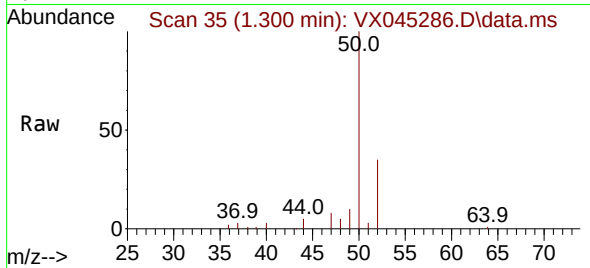




#3  
Chloromethane  
Concen: 17.870 ug/l  
RT: 1.300 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

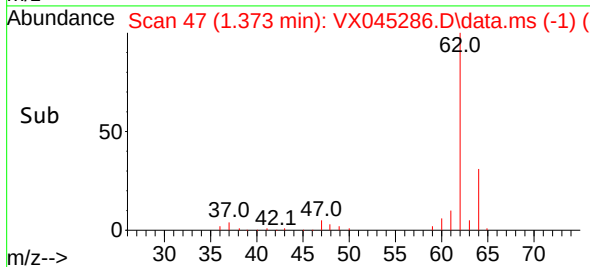
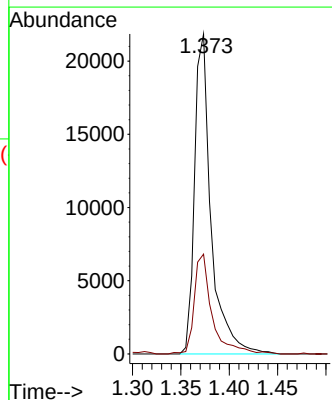
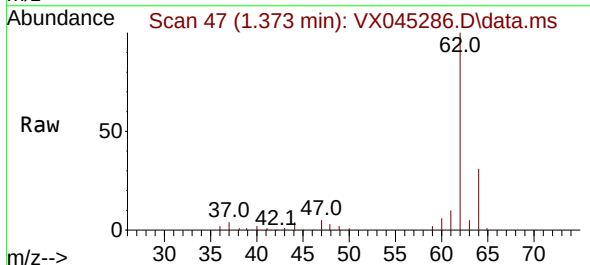
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

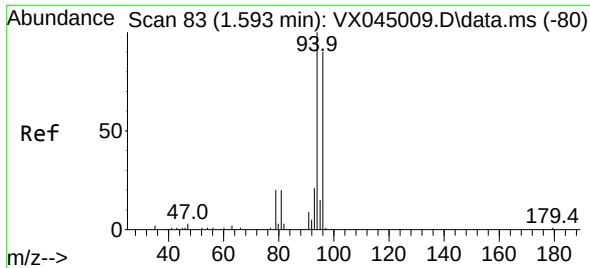
Tgt Ion: 50 Resp: 28918  
Ion Ratio Lower Upper  
50 100  
52 34.8 25.7 38.5



#4  
Vinyl Chloride  
Concen: 16.568 ug/l  
RT: 1.373 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 62 Resp: 25871  
Ion Ratio Lower Upper  
62 100  
64 31.2 25.1 37.7

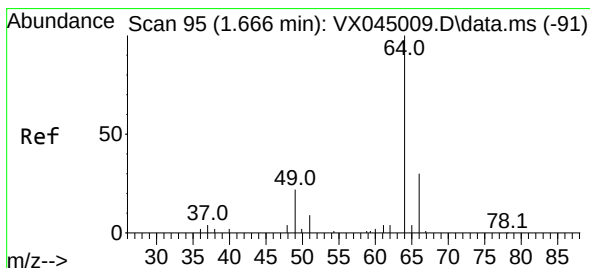
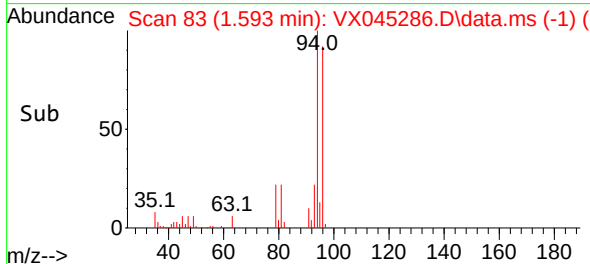
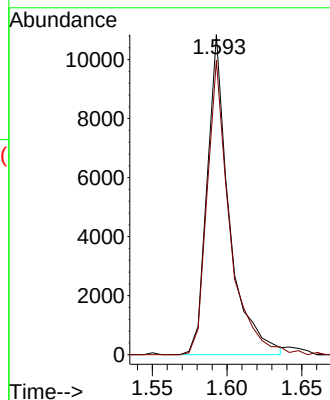
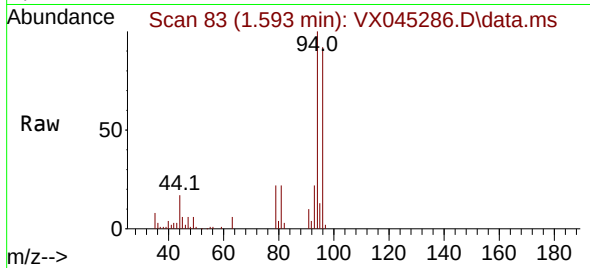




#5  
Bromomethane  
Concen: 20.468 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

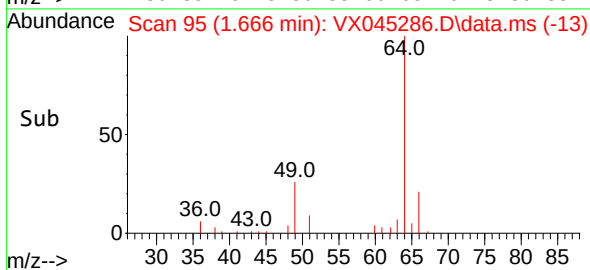
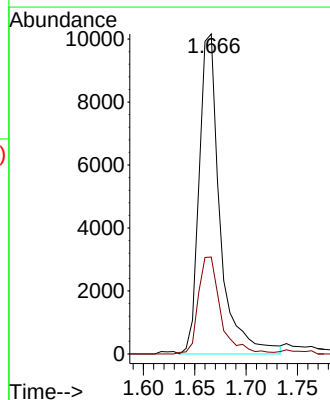
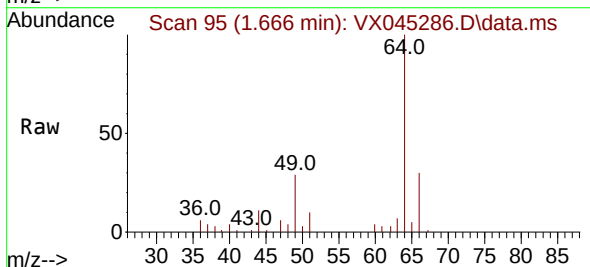
Instrument :  
MSVOA\_X  
ClientSampleId :  
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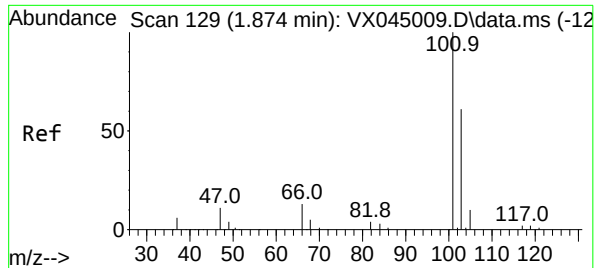
Tgt Ion: 94 Resp: 11125  
Ion Ratio Lower Upper  
94 100  
96 91.9 72.2 108.4



#6  
Chloroethane  
Concen: 17.002 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 64 Resp: 14379  
Ion Ratio Lower Upper  
64 100  
66 29.8 23.7 35.5

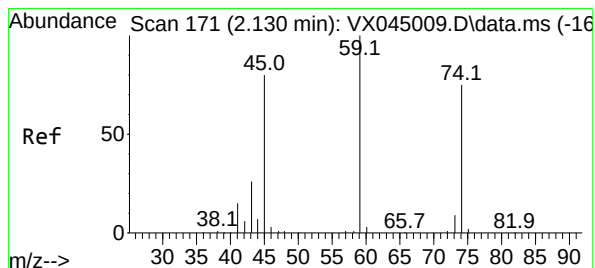
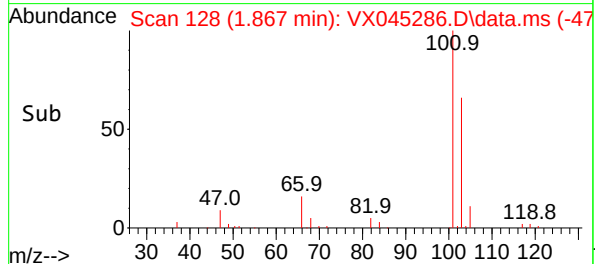
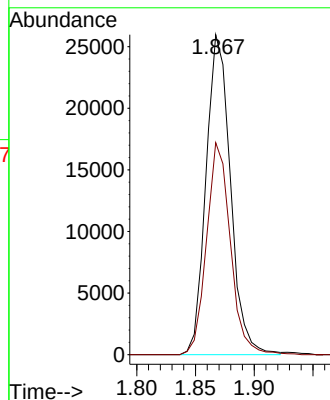
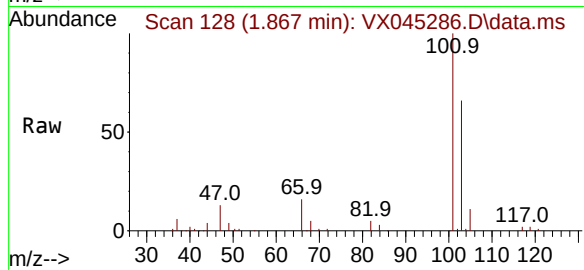




#7  
Trichlorofluoromethane  
Concen: 17.870 ug/l  
RT: 1.867 min Scan# 128  
Delta R.T. -0.007 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

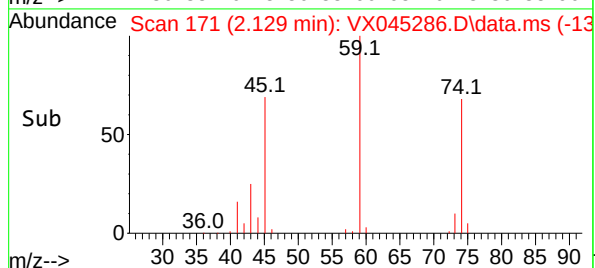
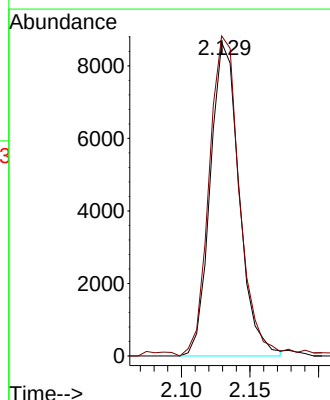
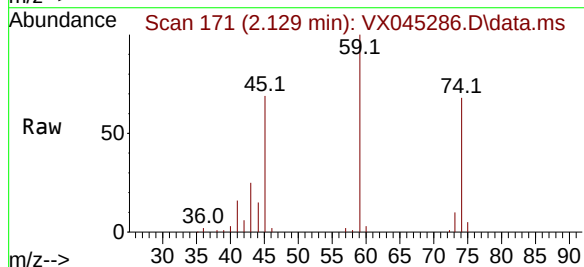
Instrument :  
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ClientSampleId :  
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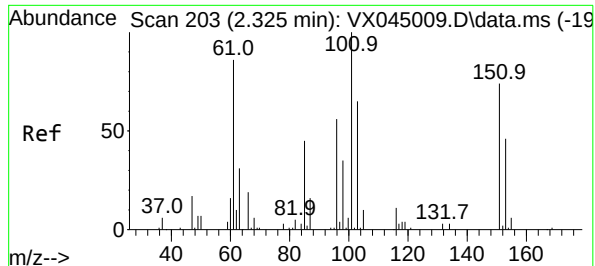
Tgt Ion:101 Resp: 37504  
Ion Ratio Lower Upper  
101 100  
103 66.2 48.8 73.2



#8  
Diethyl Ether  
Concen: 15.951 ug/l  
RT: 2.129 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 74 Resp: 12666  
Ion Ratio Lower Upper  
74 100  
45 108.0 20.8 186.8

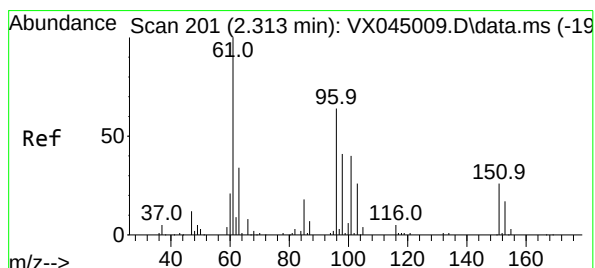
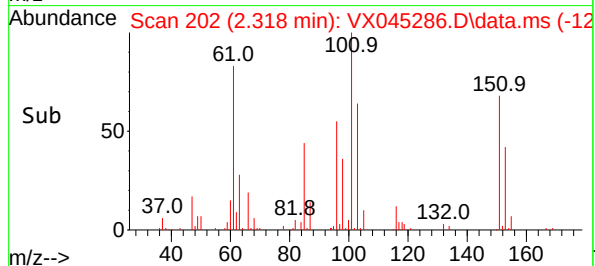
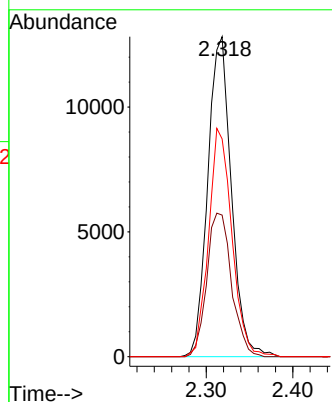
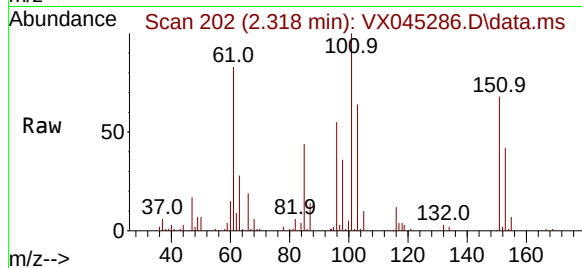




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 19.449 ug/l  
RT: 2.318 min Scan# 20  
Delta R.T. -0.007 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

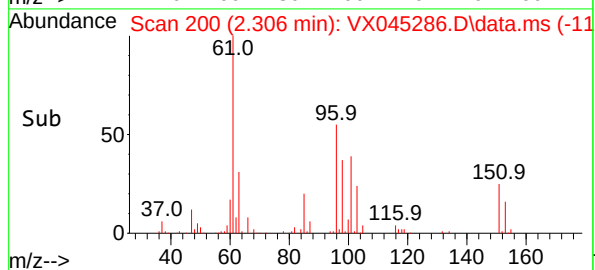
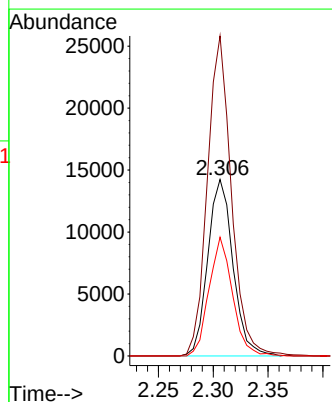
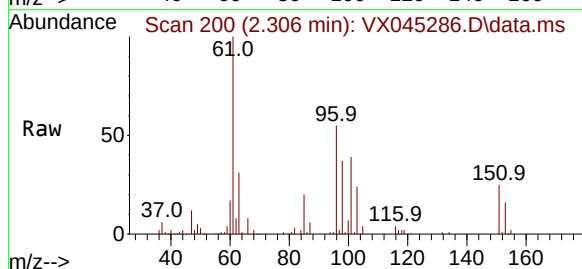
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

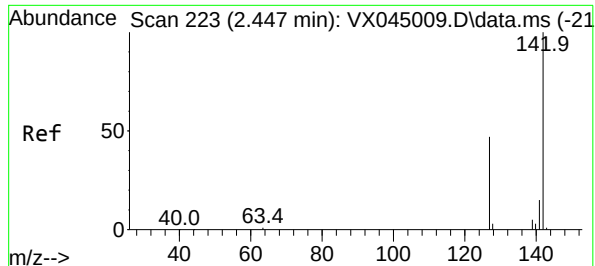
Tgt Ion:101 Resp: 24242  
Ion Ratio Lower Upper  
101 100  
85 47.1 0.0 90.6  
151 70.5 0.0 147.6



#10  
1,1-Dichloroethene  
Concen: 18.707 ug/l  
RT: 2.306 min Scan# 200  
Delta R.T. -0.007 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 96 Resp: 22775  
Ion Ratio Lower Upper  
96 100  
61 181.3 124.2 186.2  
98 67.2 51.1 76.7





#11

Methyl Iodide

Concen: 19.892 ug/l

RT: 2.440 min Scan# 21

Delta R.T. -0.007 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

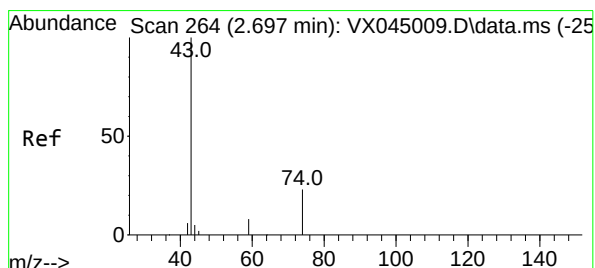
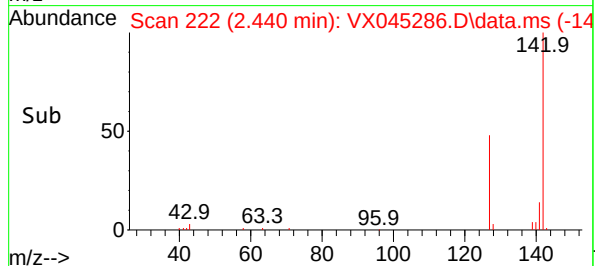
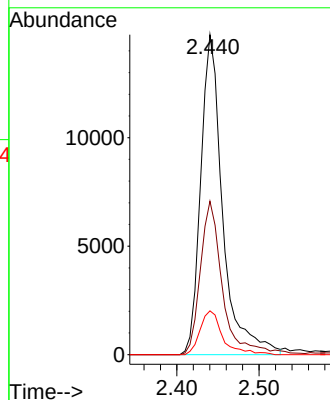
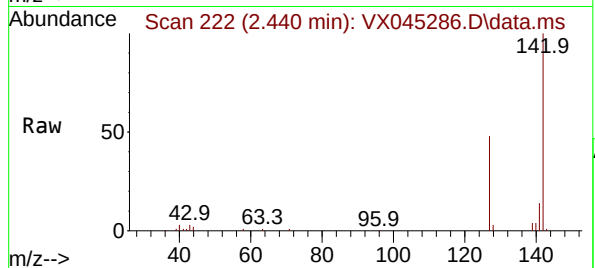
Tgt Ion:142 Resp: 27411

Ion Ratio Lower Upper

142 100

127 47.7 23.3 69.9

141 13.8 7.5 22.6



#12

Methyl Acetate

Concen: 28.850 ug/l

RT: 2.702 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX045286.D

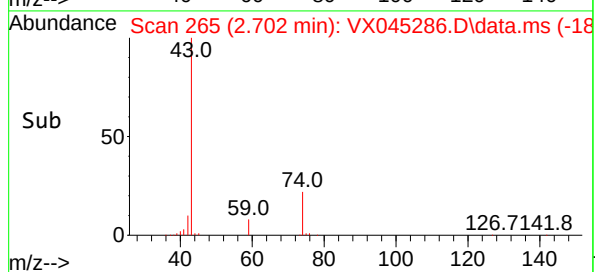
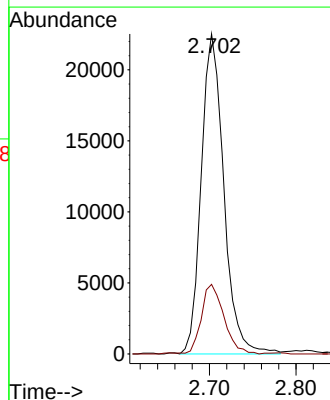
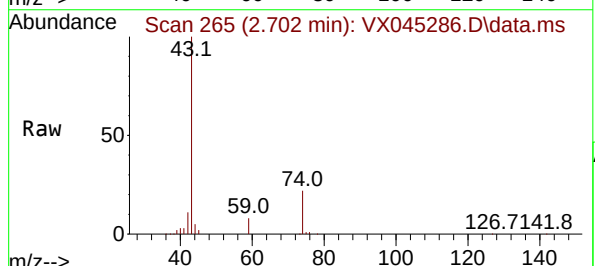
Acq: 14 Mar 2025 10:50

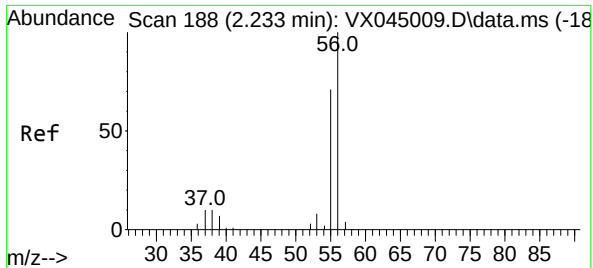
Tgt Ion: 43 Resp: 40788

Ion Ratio Lower Upper

43 100

74 21.5 17.9 26.9

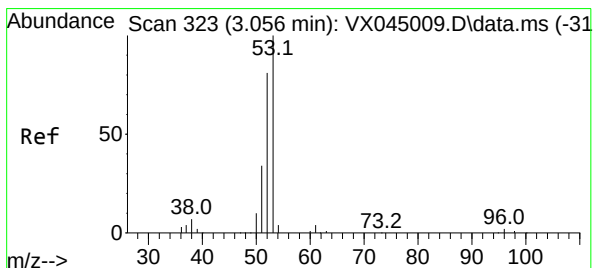
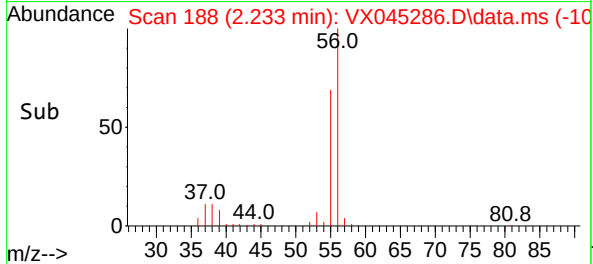
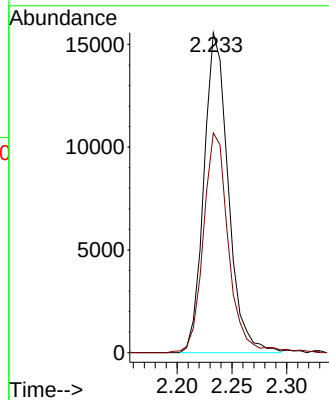
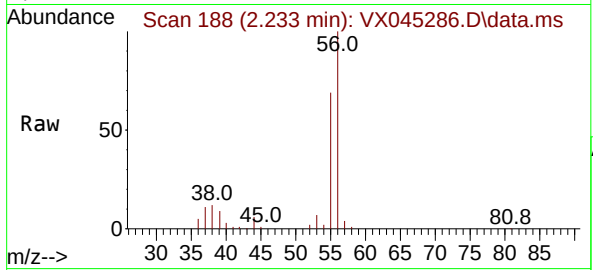




#13  
Acrolein  
Concen: 84.899 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

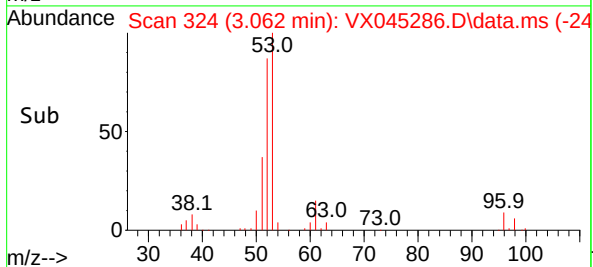
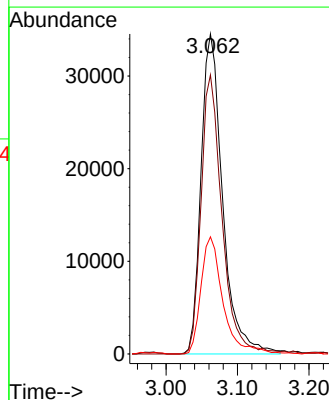
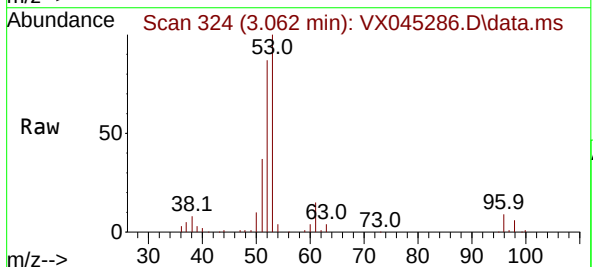
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

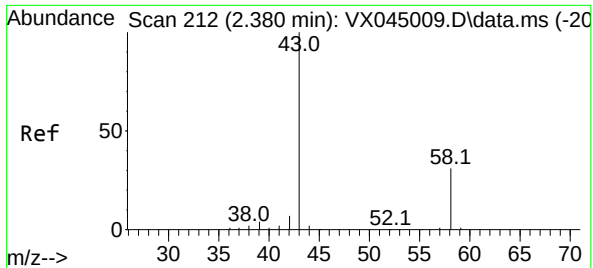
Tgt Ion: 56 Resp: 24059  
Ion Ratio Lower Upper  
56 100  
55 69.4 55.4 83.2



#14  
Acrylonitrile  
Concen: 104.901 ug/l  
RT: 3.062 min Scan# 324  
Delta R.T. 0.006 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 53 Resp: 72442  
Ion Ratio Lower Upper  
53 100  
52 84.4 40.9 122.8  
51 37.4 18.0 54.0





#15

Acetone

Concen: 119.570 ug/l

RT: 2.385 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

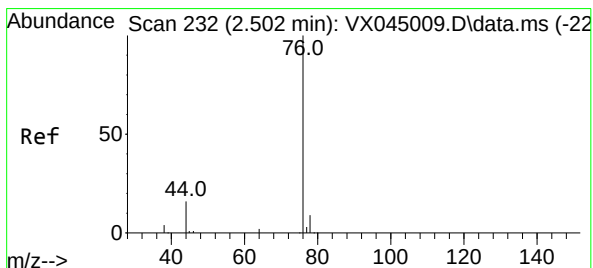
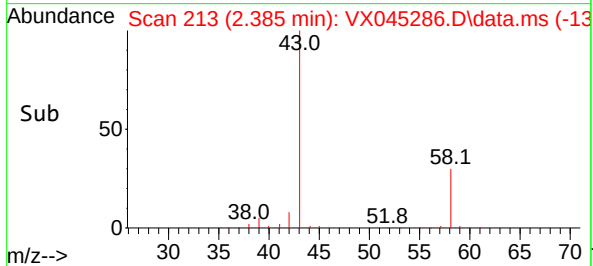
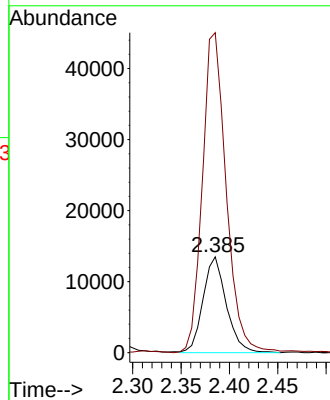
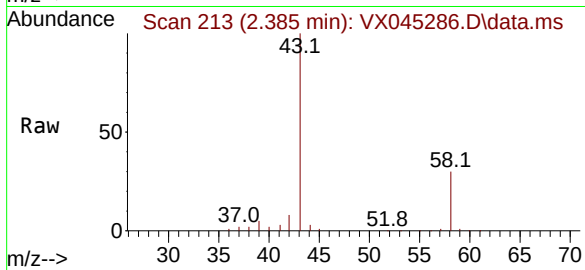
VX0314WBS01

Tgt Ion: 58 Resp: 22646

Ion Ratio Lower Upper

58 100

43 333.2 258.6 388.0



#16

Carbon Disulfide

Concen: 15.613 ug/l

RT: 2.501 min Scan# 232

Delta R.T. -0.000 min

Lab File: VX045286.D

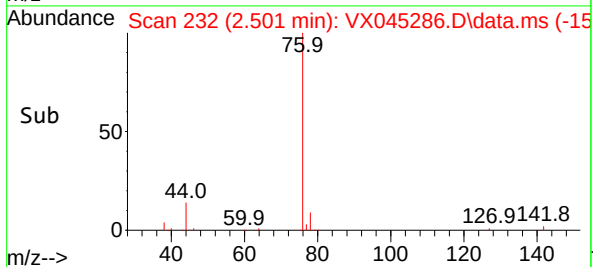
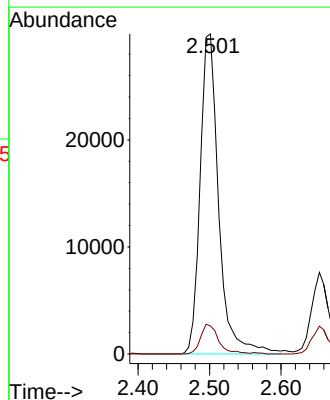
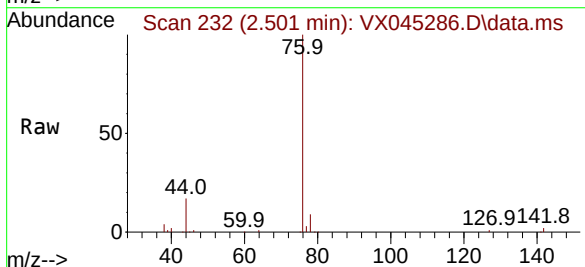
Acq: 14 Mar 2025 10:50

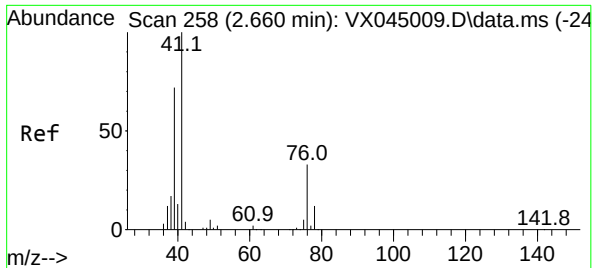
Tgt Ion: 76 Resp: 53918

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9





#17

Allyl chloride

Concen: 18.319 ug/l

RT: 2.654 min Scan# 21

Delta R.T. -0.007 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

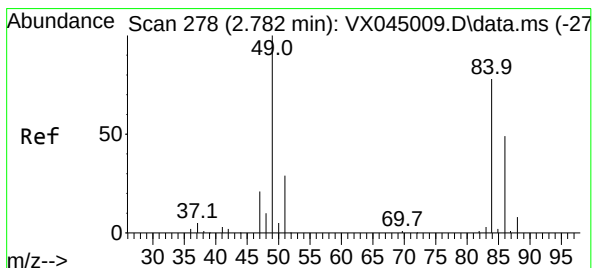
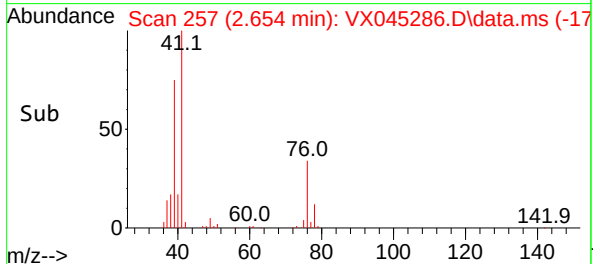
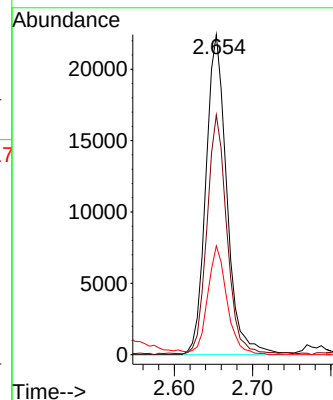
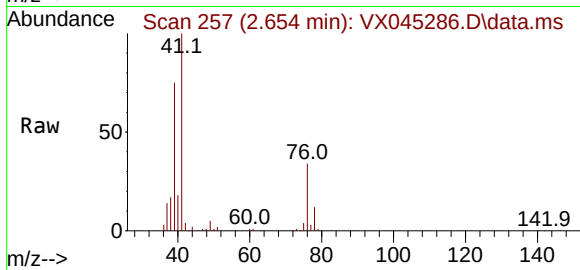
Tgt Ion: 41 Resp: 41715

Ion Ratio Lower Upper

41 100

39 74.6 36.2 108.6

76 34.0 17.2 51.5



#18

Methylene Chloride

Concen: 19.028 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Tgt Ion: 84 Resp: 26057

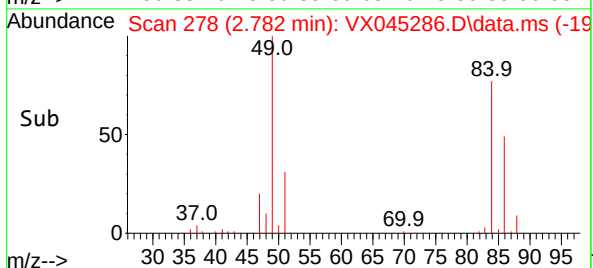
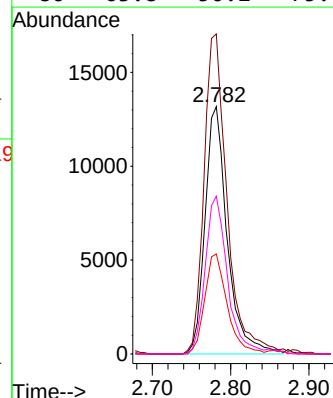
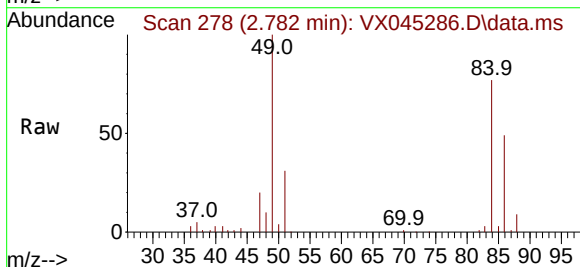
Ion Ratio Lower Upper

84 100

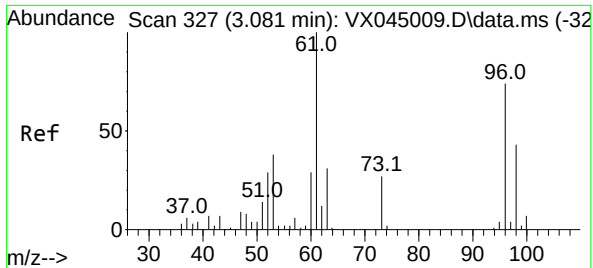
49 129.4 102.8 154.2

51 40.4 30.1 45.1

86 63.8 50.2 75.4







#19

trans-1,2-Dichloroethene

Concen: 18.452 ug/l

RT: 3.080 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

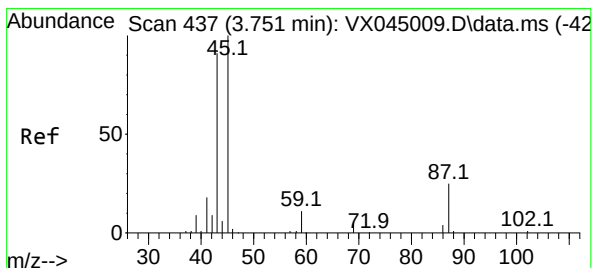
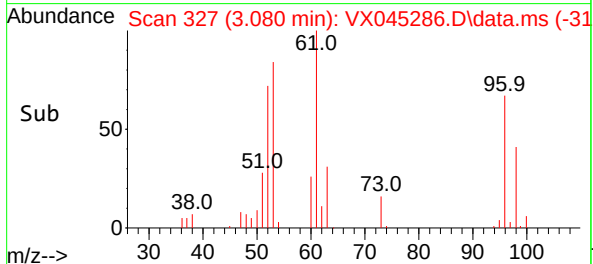
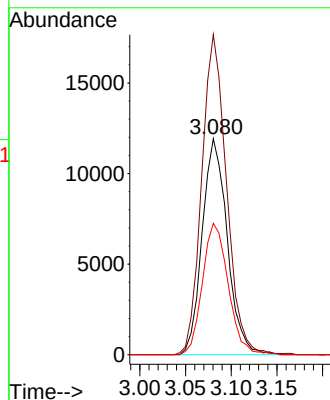
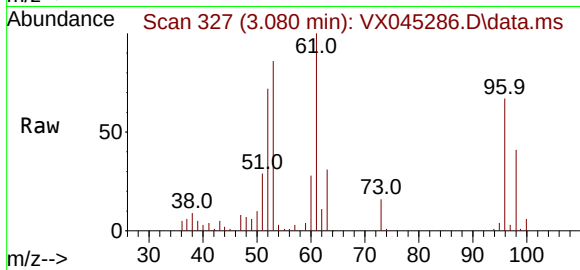
Tgt Ion: 96 Resp: 22728

Ion Ratio Lower Upper

96 100

61 147.6 108.6 163.0

98 60.8 46.5 69.7



#20

Diisopropyl ether

Concen: 19.052 ug/l

RT: 3.757 min Scan# 438

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Tgt Ion: 45 Resp: 83369

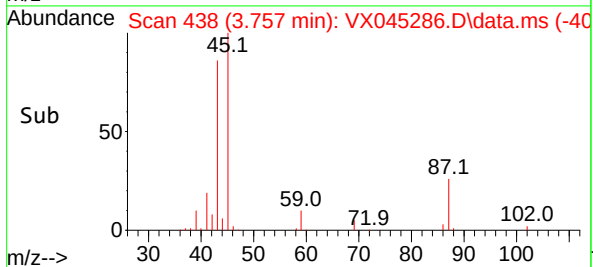
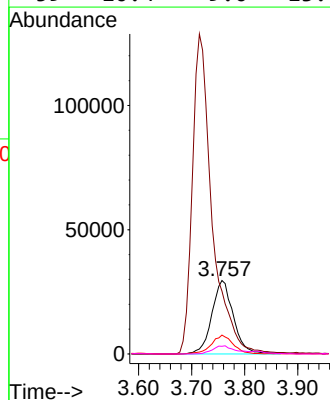
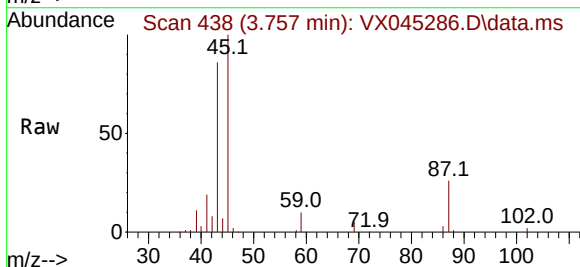
Ion Ratio Lower Upper

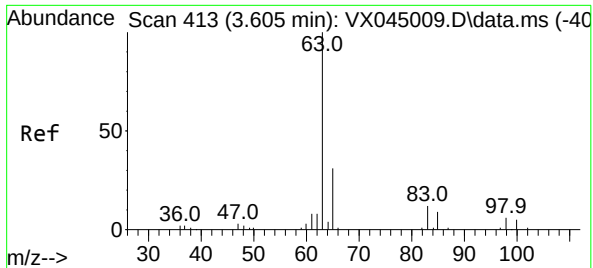
45 100

43 83.6 74.4 111.6

87 25.7 19.8 29.8

59 10.4 9.0 13.4

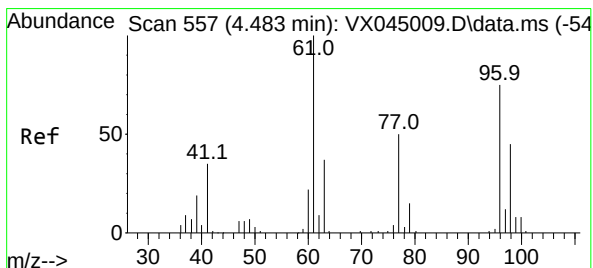
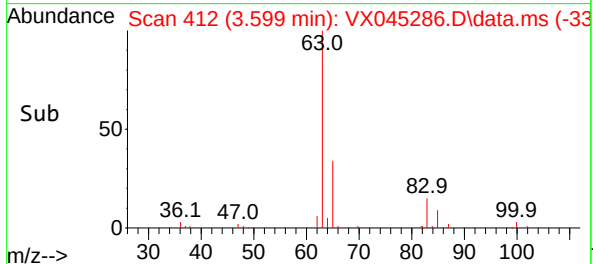
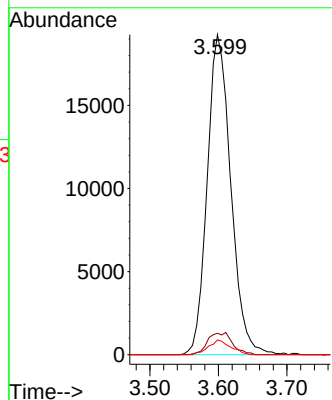
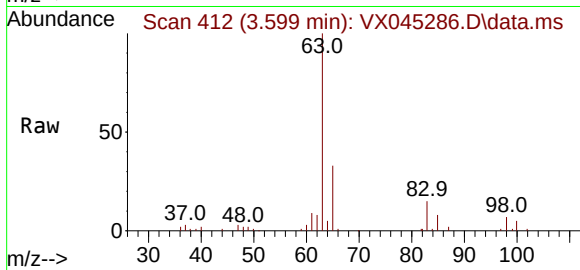




#21  
 1,1-Dichloroethane  
 Concen: 18.960 ug/l  
 RT: 3.599 min Scan# 413  
 Delta R.T. -0.007 min  
 Lab File: VX045286.D  
 Acq: 14 Mar 2025 10:50

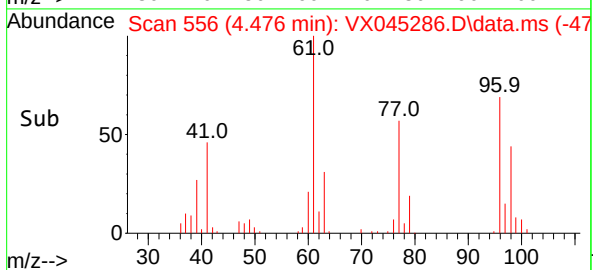
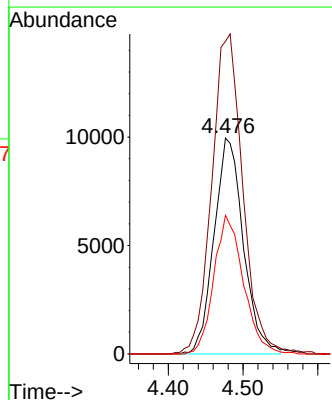
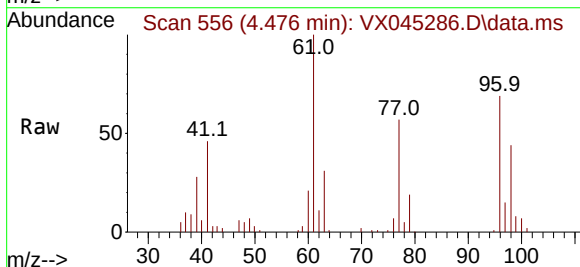
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

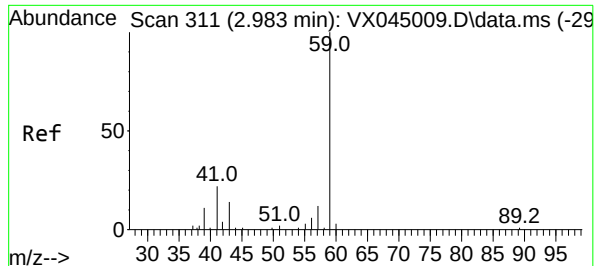
Tgt Ion: 63 Resp: 46141  
 Ion Ratio Lower Upper  
 63 100  
 98 6.7 3.3 9.8  
 100 4.6 2.4 7.1



#22  
 cis-1,2-Dichloroethene  
 Concen: 18.388 ug/l  
 RT: 4.476 min Scan# 556  
 Delta R.T. -0.007 min  
 Lab File: VX045286.D  
 Acq: 14 Mar 2025 10:50

Tgt Ion: 96 Resp: 27141  
 Ion Ratio Lower Upper  
 96 100  
 61 156.2 118.9 178.3  
 98 64.5 50.7 76.1





#23

tert-Butyl Alcohol

Concen: 91.097 ug/l

RT: 2.977 min Scan# 311

Delta R.T. -0.007 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

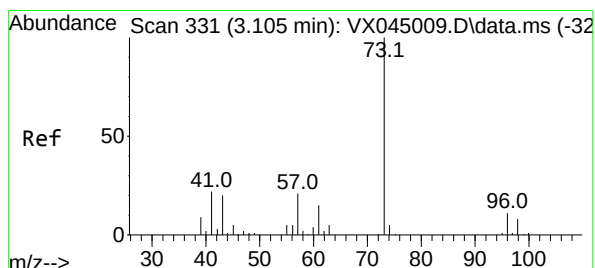
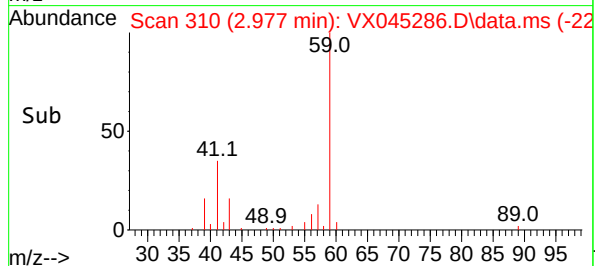
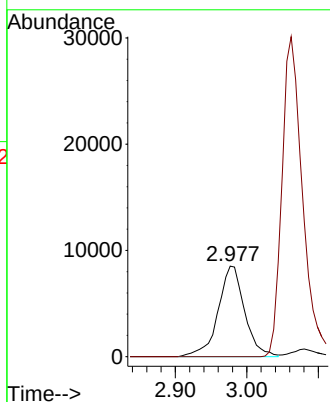
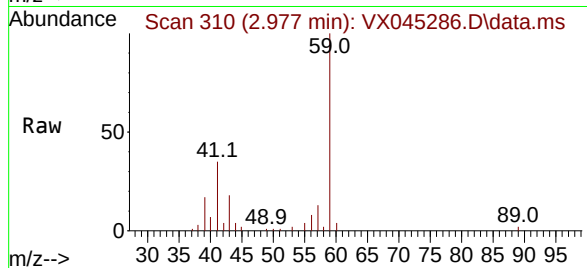
VX0314WBS01

Tgt Ion: 59 Resp: 21962

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#24

Methyl tert-Butyl Ether

Concen: 18.764 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.006 min

Lab File: VX045286.D

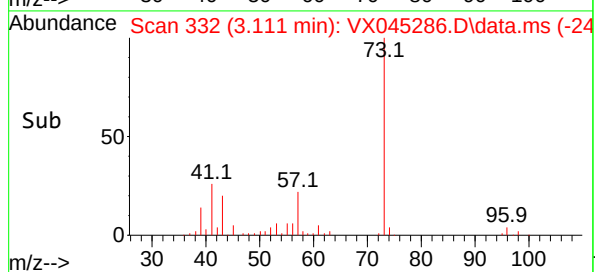
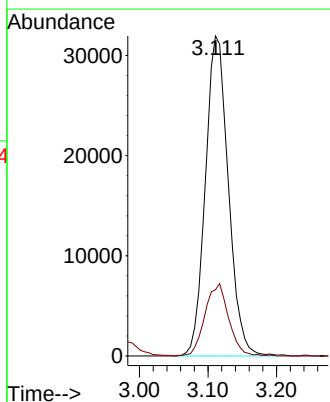
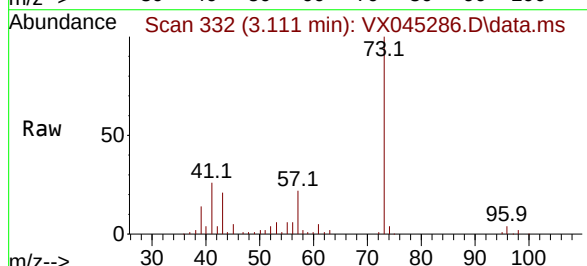
Acq: 14 Mar 2025 10:50

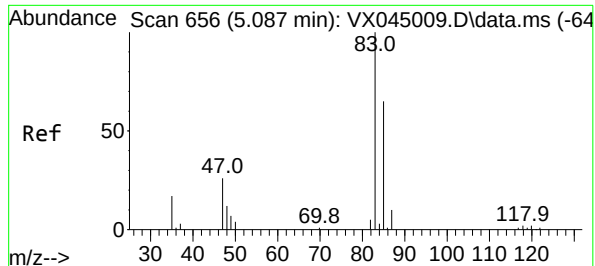
Tgt Ion: 73 Resp: 74561

Ion Ratio Lower Upper

73 100

43 23.3 17.4 26.0





#25

Chloroform

Concen: 19.564 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.007 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

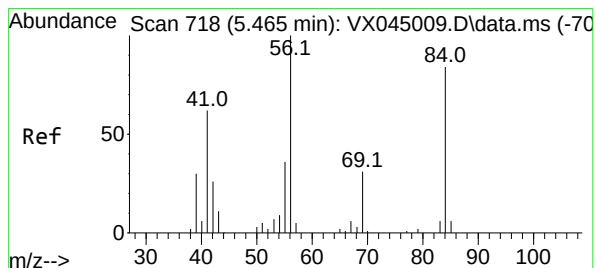
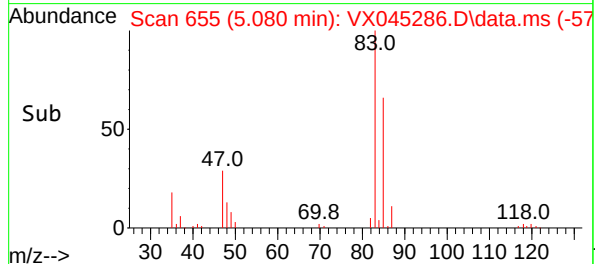
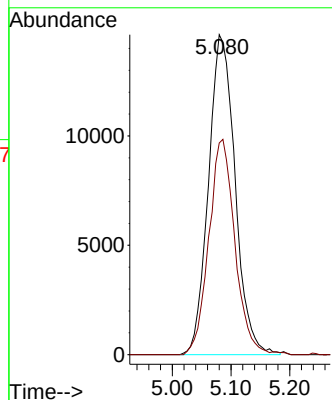
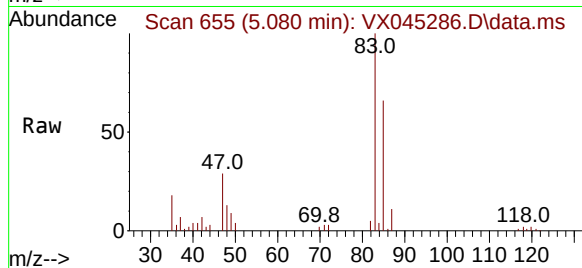
VX0314WBS01

Tgt Ion: 83 Resp: 45989

Ion Ratio Lower Upper

83 100

85 66.1 51.7 77.5



#26

Cyclohexane

Concen: 17.792 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.007 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

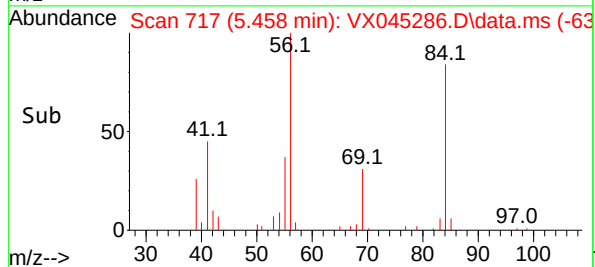
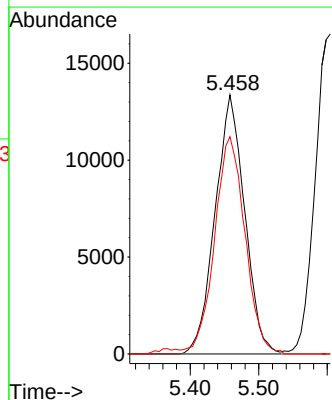
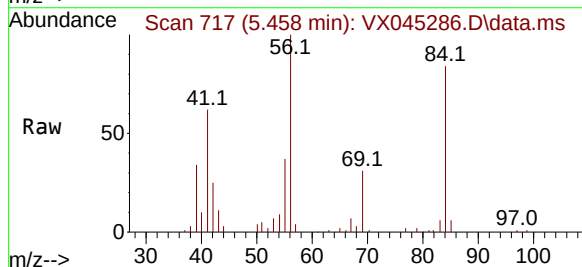
Tgt Ion: 56 Resp: 39967

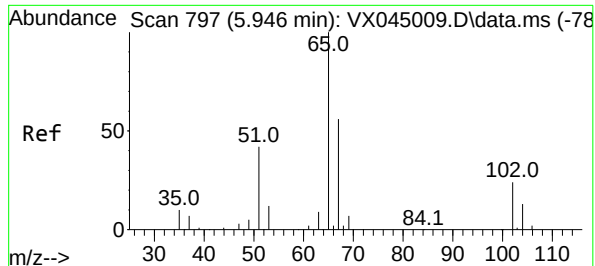
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.5 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 32.988 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

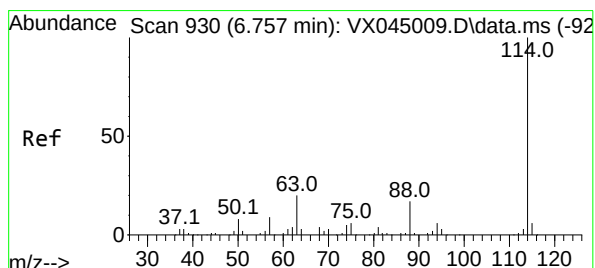
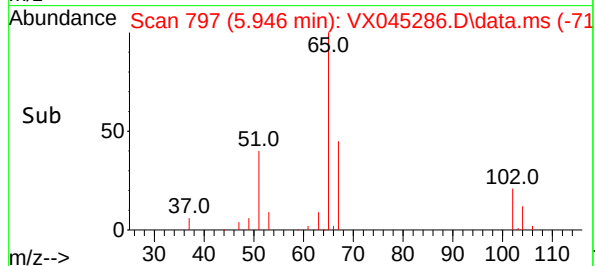
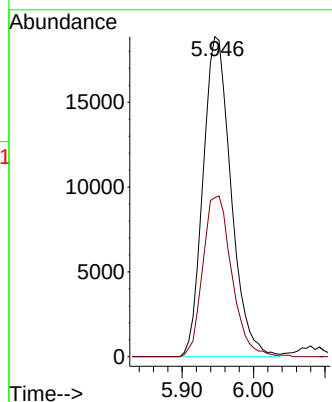
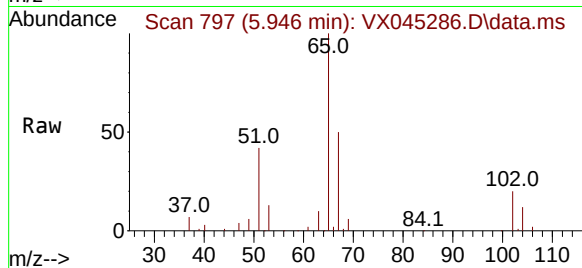
VX0314WBS01

Tgt Ion: 65 Resp: 51350

Ion Ratio Lower Upper

65 100

67 51.7 42.6 64.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

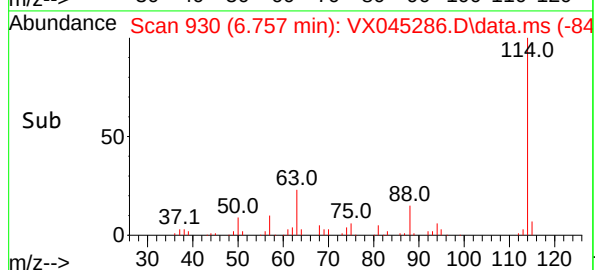
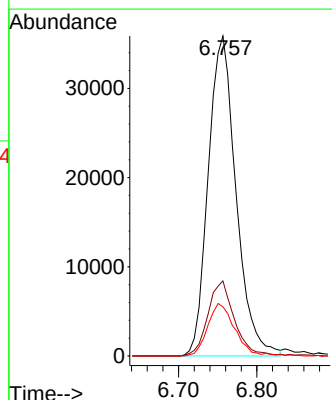
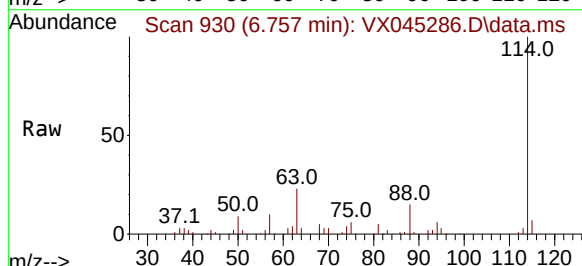
Tgt Ion: 114 Resp: 88526

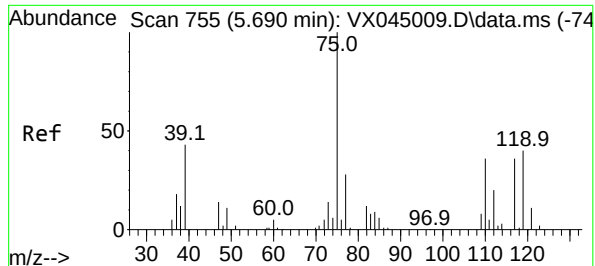
Ion Ratio Lower Upper

114 100

63 22.2 16.8 25.2

88 15.6 12.7 19.1





#29

1,1-Dichloropropene

Concen: 18.617 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

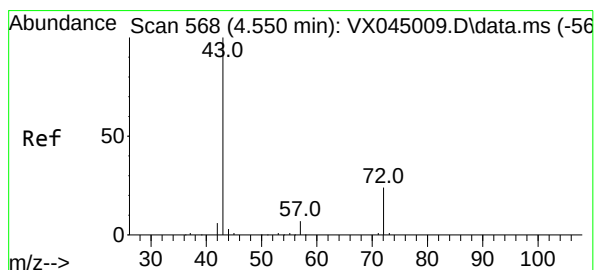
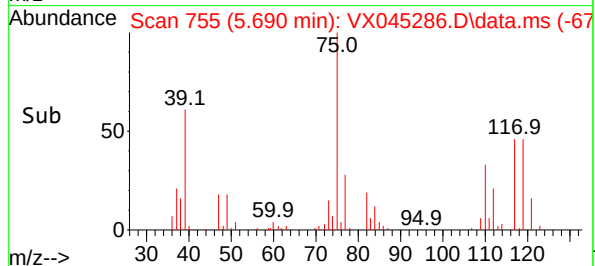
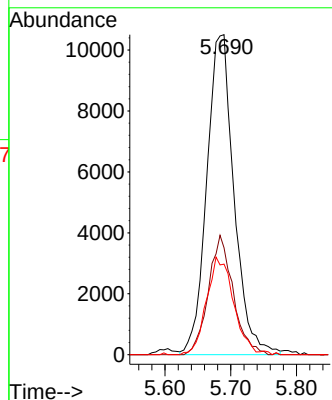
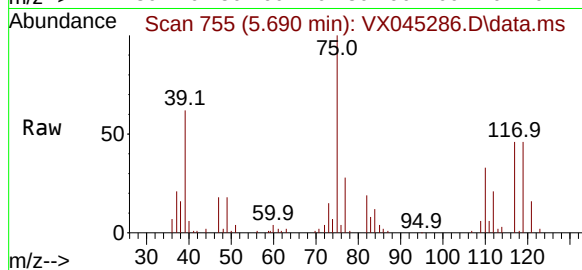
Tgt Ion: 75 Resp: 30317

Ion Ratio Lower Upper

75 100

110 33.9 0.0 69.2

77 30.0 0.0 61.0



#30

2-Butanone

Concen: 113.578 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

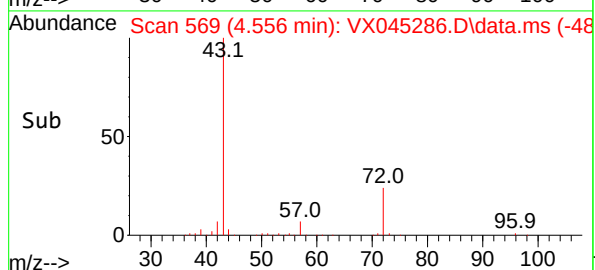
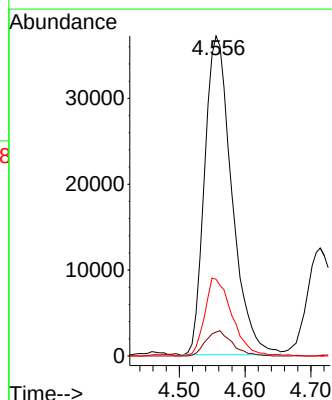
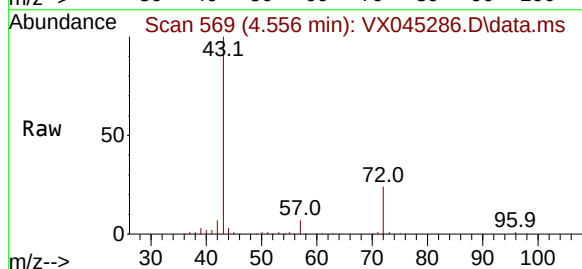
Tgt Ion: 43 Resp: 106830

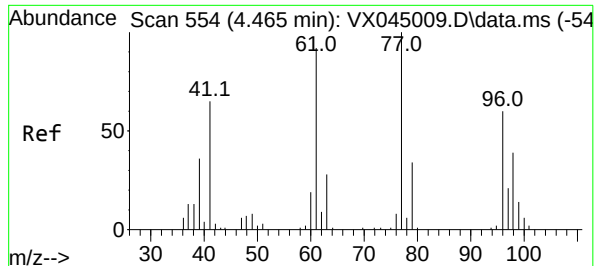
Ion Ratio Lower Upper

43 100

57 7.7 6.2 9.2

72 24.3 20.2 30.2

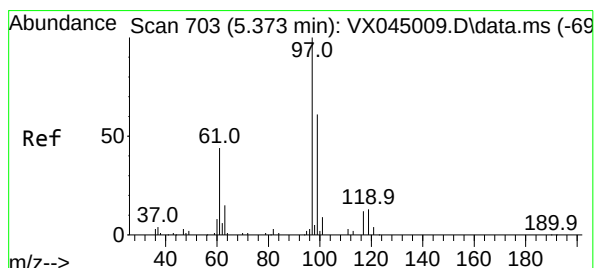
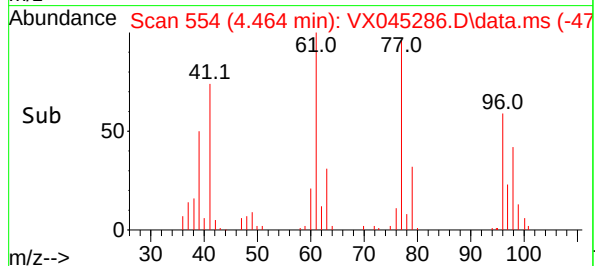
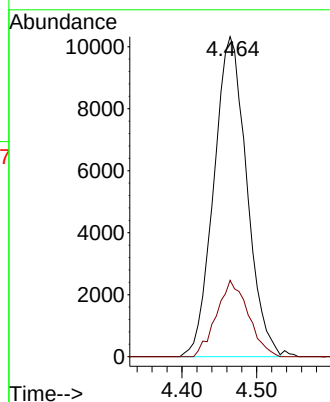
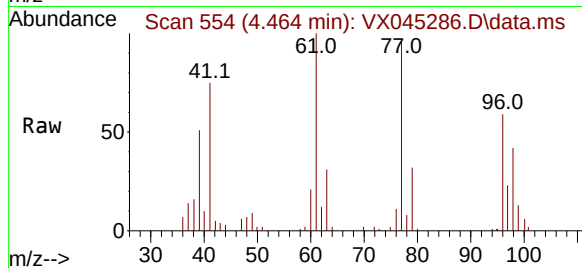




#31  
2,2-Dichloropropane  
Concen: 17.155 ug/l  
RT: 4.464 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

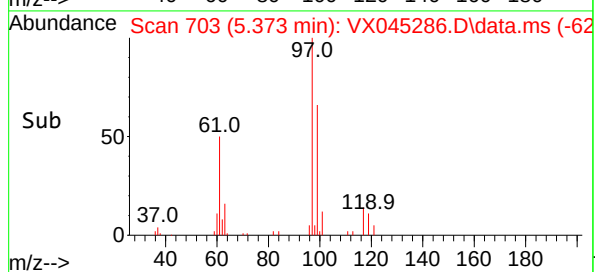
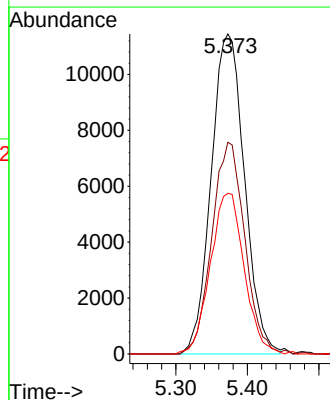
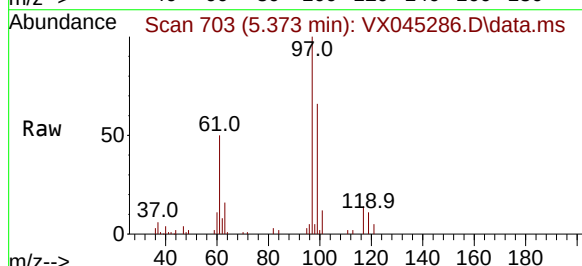
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

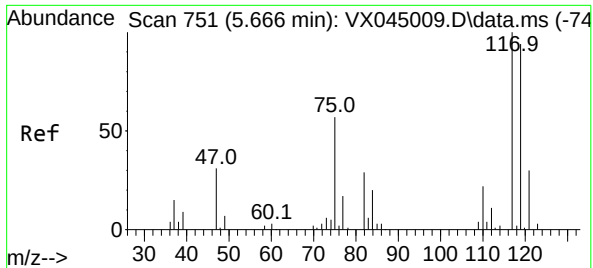
Tgt Ion: 77 Resp: 31589  
Ion Ratio Lower Upper  
77 100  
97 23.1 18.0 27.0



#32  
1,1,1-Trichloroethane  
Concen: 18.800 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 97 Resp: 37094  
Ion Ratio Lower Upper  
97 100  
99 65.0 52.2 78.2  
61 50.9 38.5 57.7





#33

Carbon Tetrachloride

Concen: 19.317 ug/l

RT: 5.665 min Scan# 751

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

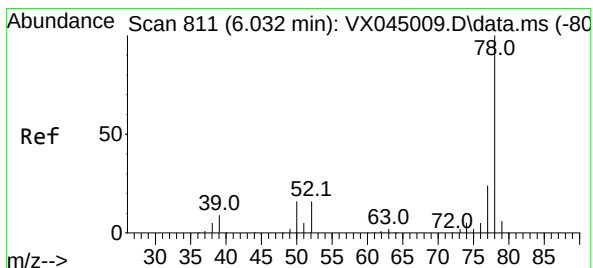
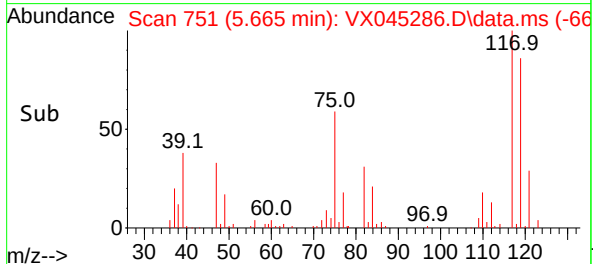
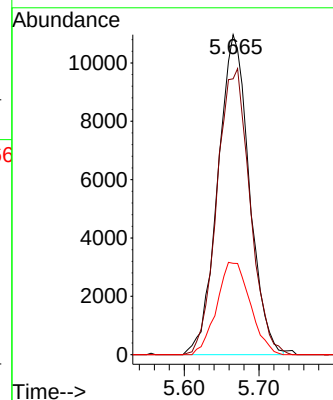
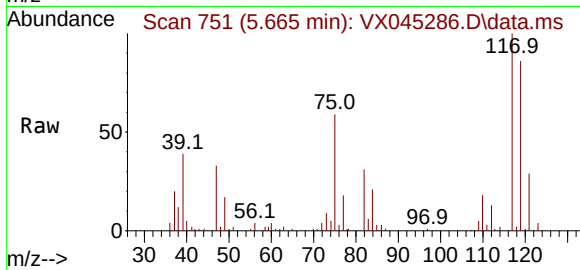
Tgt Ion:117 Resp: 32166

Ion Ratio Lower Upper

117 100

119 86.2 75.1 112.7

121 28.5 23.9 35.9



#34

Benzene

Concen: 18.644 ug/l

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

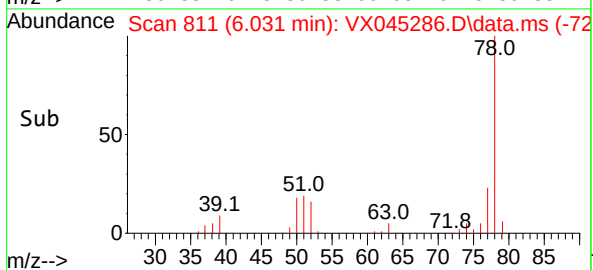
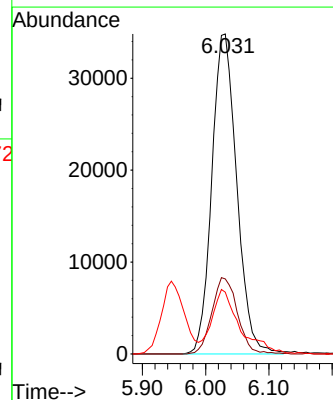
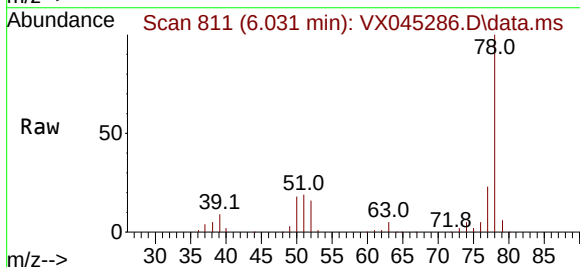
Tgt Ion: 78 Resp: 95210

Ion Ratio Lower Upper

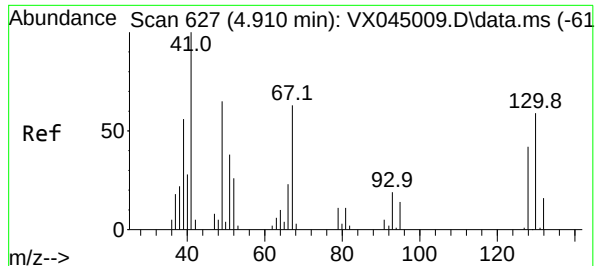
78 100

77 23.5 19.6 29.4

51 18.7 13.8 20.6







#35

Methacrylonitrile

Concen: 21.004 ug/l

RT: 4.922 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

Tgt Ion: 41 Resp: 21141

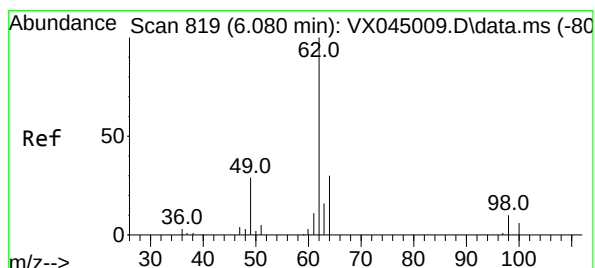
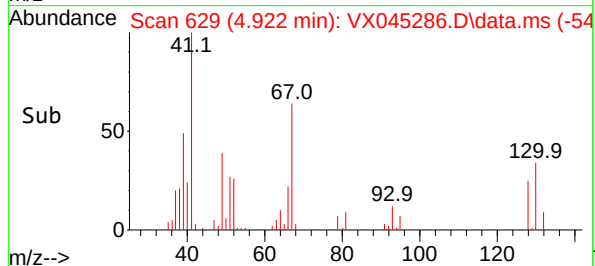
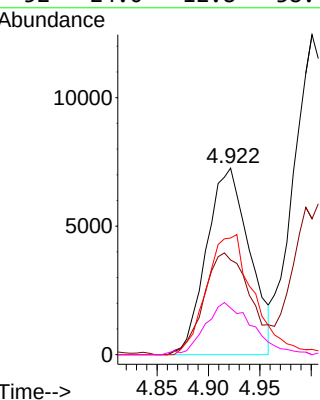
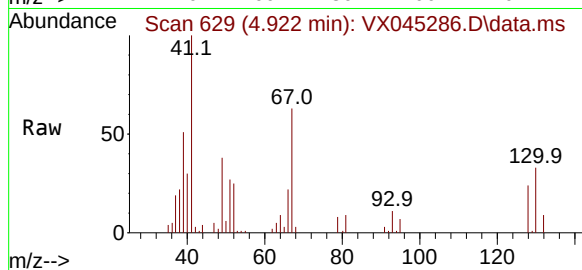
Ion Ratio Lower Upper

41 100

39 50.8 27.8 83.4

67 62.5 31.5 94.5

52 24.0 12.8 38.4



#36

1,2-Dichloroethane

Concen: 20.235 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.000 min

Lab File: VX045286.D

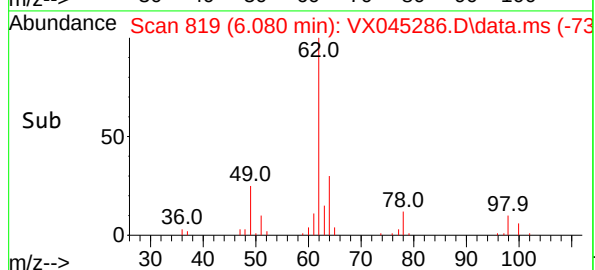
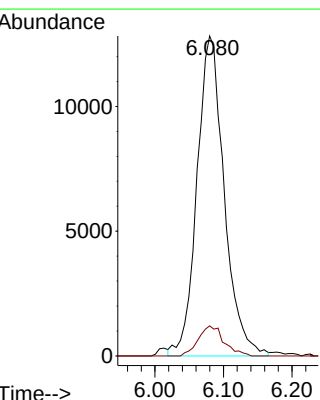
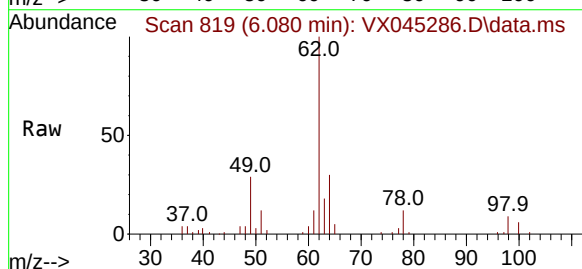
Acq: 14 Mar 2025 10:50

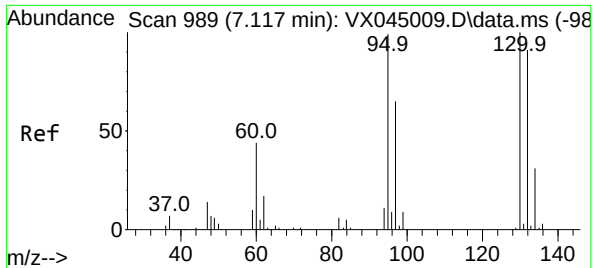
Tgt Ion: 62 Resp: 35379

Ion Ratio Lower Upper

62 100

98 8.9 7.9 11.9





#37

Trichloroethene

Concen: 18.908 ug/l

RT: 7.122 min Scan# 989

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

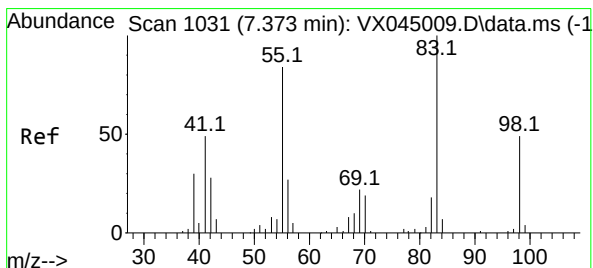
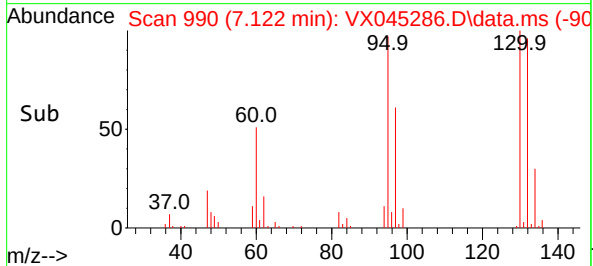
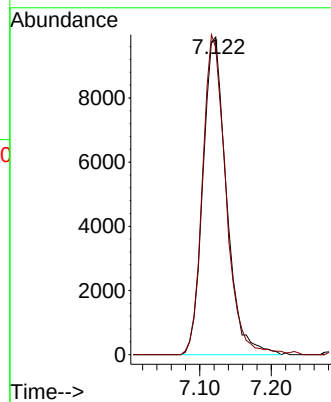
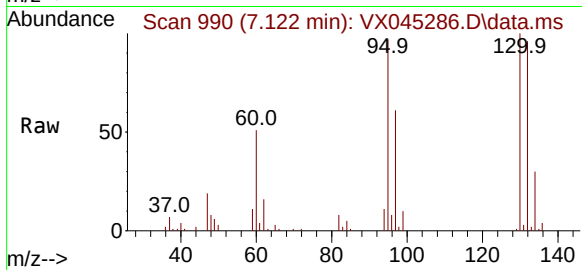
VX0314WBS01

Tgt Ion:130 Resp: 22590

Ion Ratio Lower Upper

130 100

95 96.7 79.0 118.4



#38

Methylcyclohexane

Concen: 18.343 ug/l

RT: 7.372 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

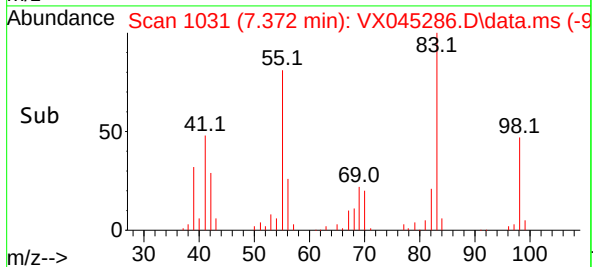
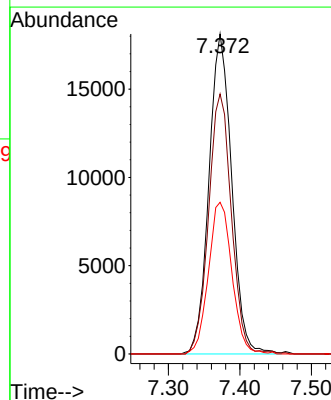
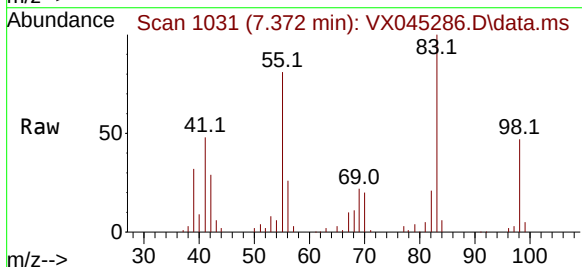
Tgt Ion: 83 Resp: 40108

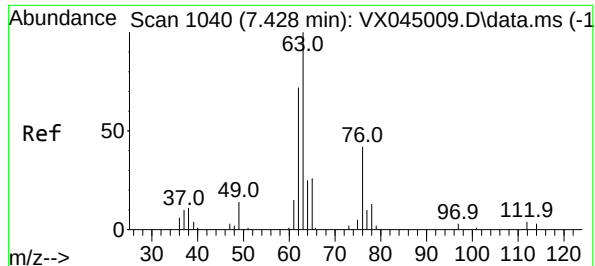
Ion Ratio Lower Upper

83 100

55 80.9 40.6 122.0

98 48.8 24.9 74.6





#39

1,2-Dichloropropane

Concen: 19.101 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

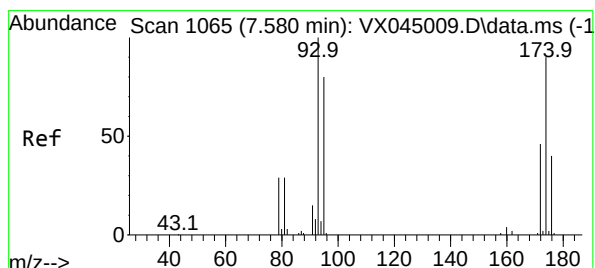
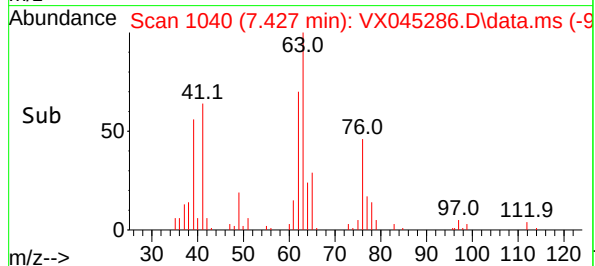
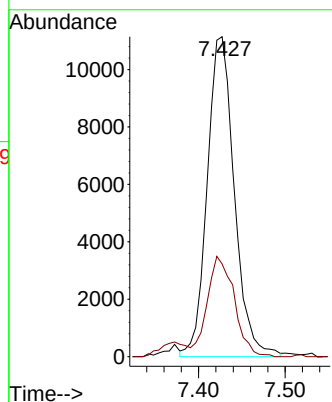
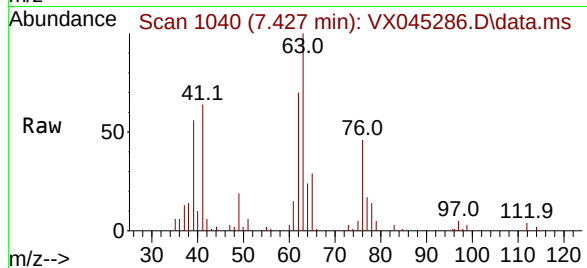
VX0314WBS01

Tgt Ion: 63 Resp: 24251

Ion Ratio Lower Upper

63 100

65 29.3 24.3 36.5



#40

Dibromomethane

Concen: 20.168 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

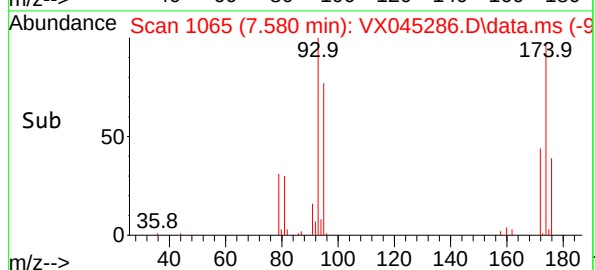
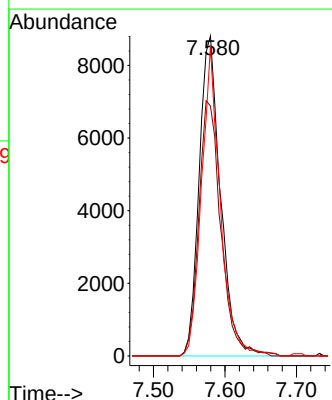
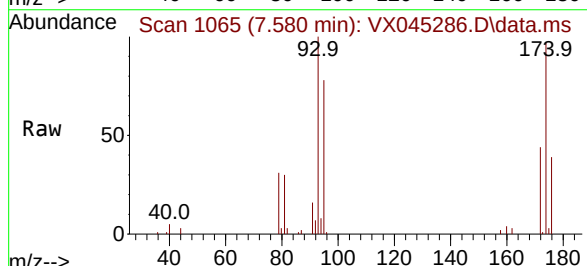
Tgt Ion: 93 Resp: 18375

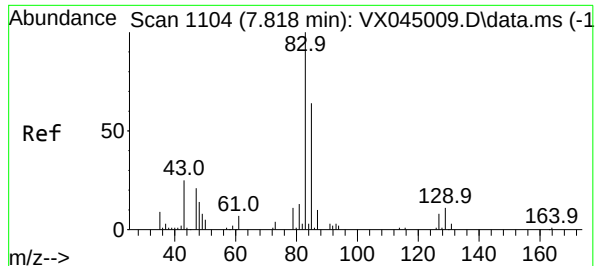
Ion Ratio Lower Upper

93 100

95 80.4 0.0 162.6

174 84.0 0.0 178.8





#41

Bromodichloromethane

Concen: 19.774 ug/l

RT: 7.817 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

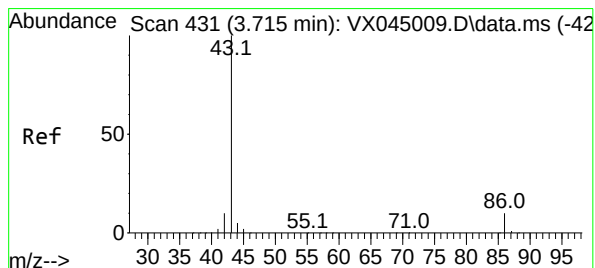
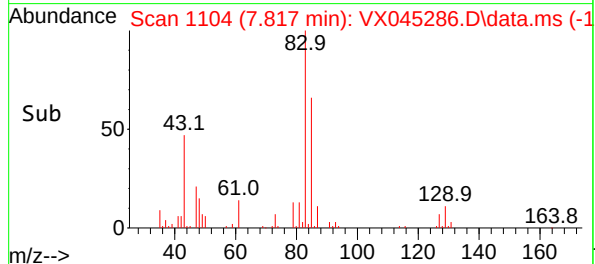
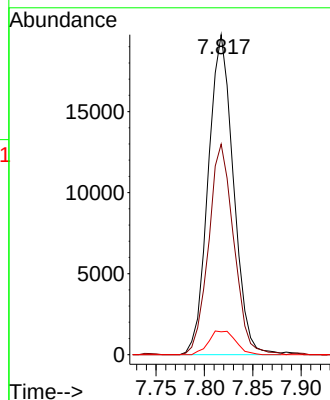
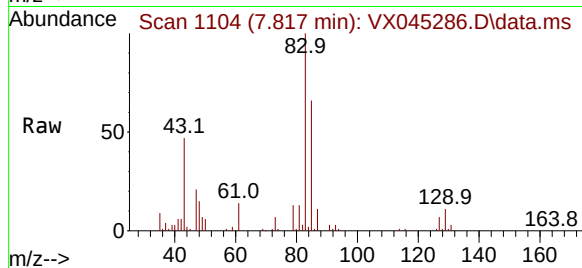
Tgt Ion: 83 Resp: 35807

Ion Ratio Lower Upper

83 100

85 65.8 51.0 76.6

127 7.2 6.1 9.1



#42

Vinyl Acetate

Concen: 91.144 ug/l

RT: 3.714 min Scan# 431

Delta R.T. -0.000 min

Lab File: VX045286.D

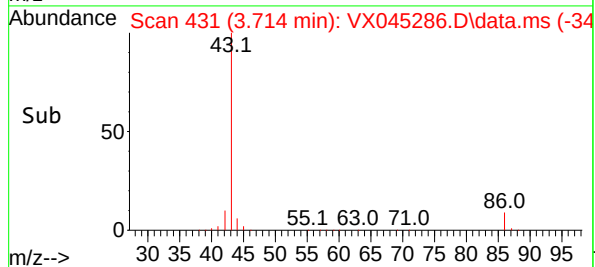
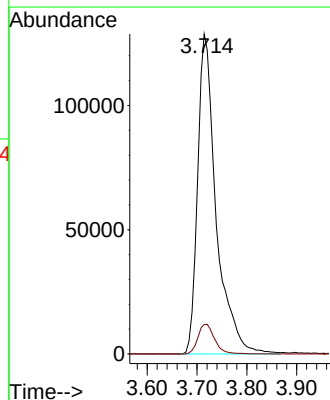
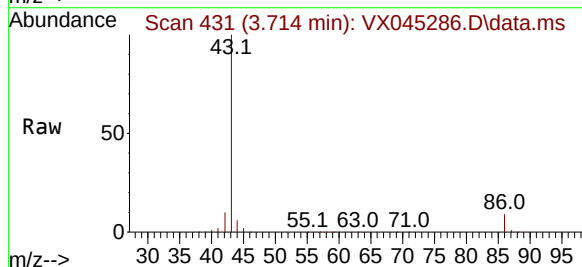
Acq: 14 Mar 2025 10:50

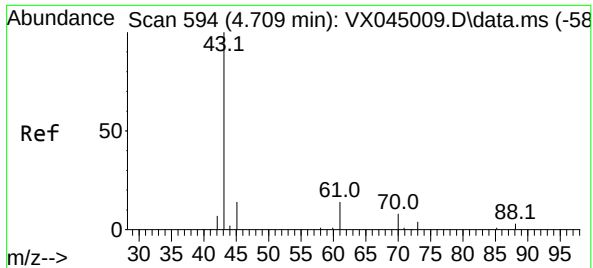
Tgt Ion: 43 Resp: 332676

Ion Ratio Lower Upper

43 100

86 8.3 7.0 10.4





#43

Ethyl Acetate

Concen: 19.955 ug/l

RT: 4.714 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

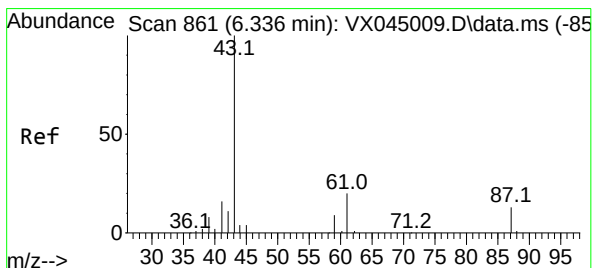
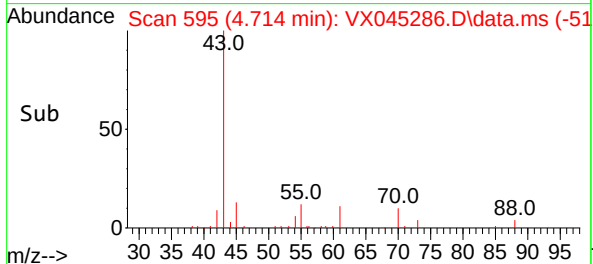
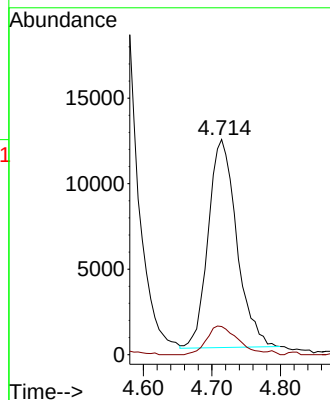
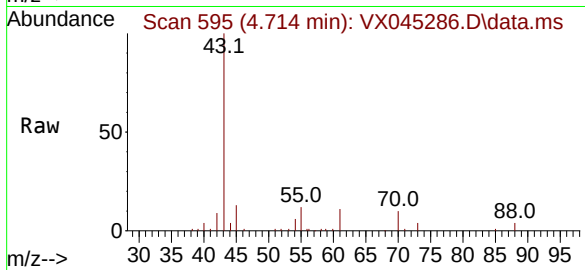
VX0314WBS01

Tgt Ion: 43 Resp: 35199

Ion Ratio Lower Upper

43 100

45 15.0 12.7 19.1



#44

Isopropyl Acetate

Concen: 19.261 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX045286.D

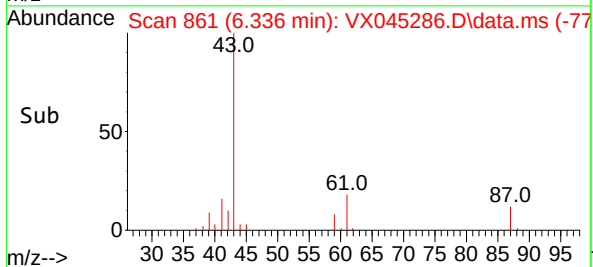
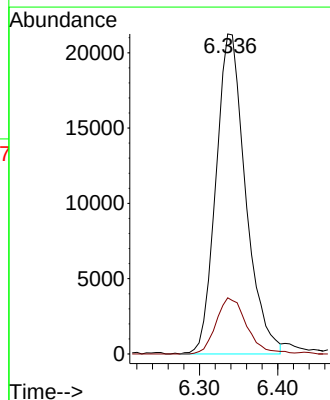
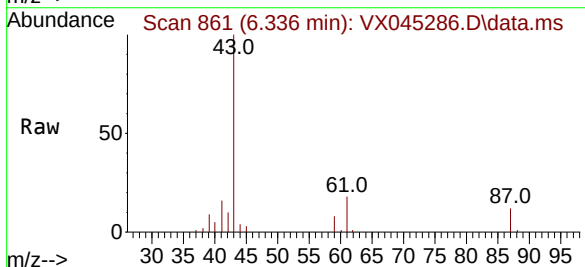
Acq: 14 Mar 2025 10:50

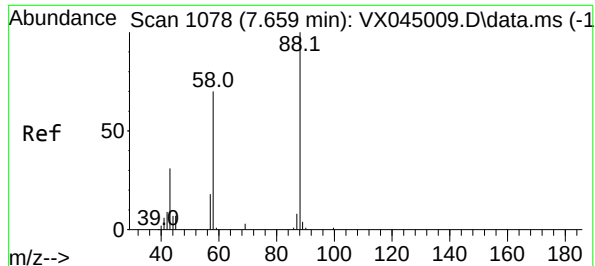
Tgt Ion: 43 Resp: 55917

Ion Ratio Lower Upper

43 100

61 18.1 15.5 23.3





#45

1,4-Dioxane

Concen: 352.489 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

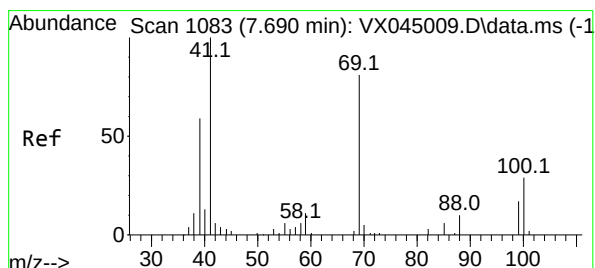
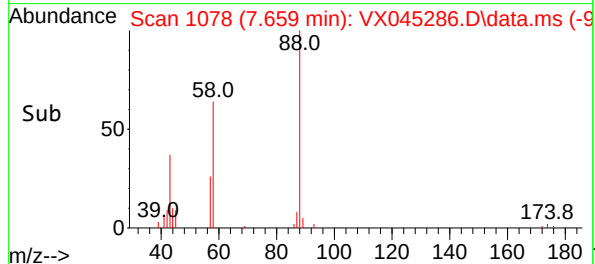
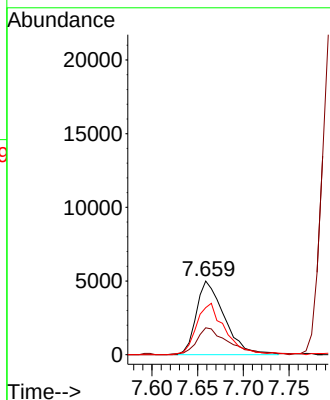
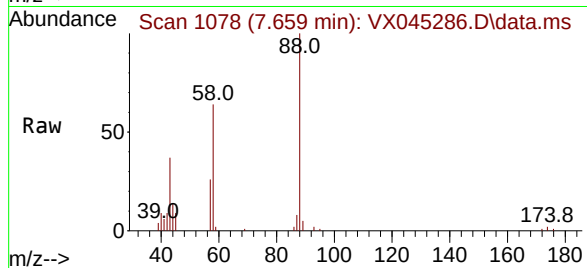
Tgt Ion: 88 Resp: 10638

Ion Ratio Lower Upper

88 100

43 40.9 29.6 44.4

58 69.9 56.2 84.4



#46

Methyl methacrylate

Concen: 20.151 ug/l

RT: 7.689 min Scan# 1083

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

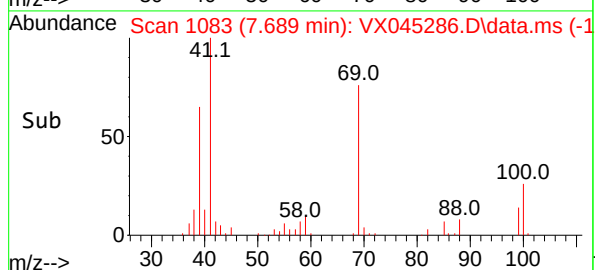
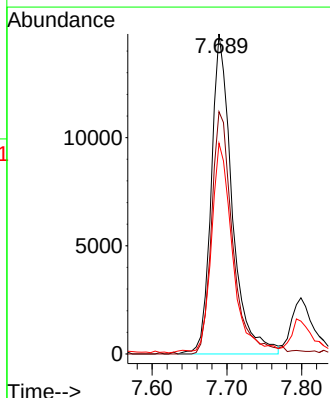
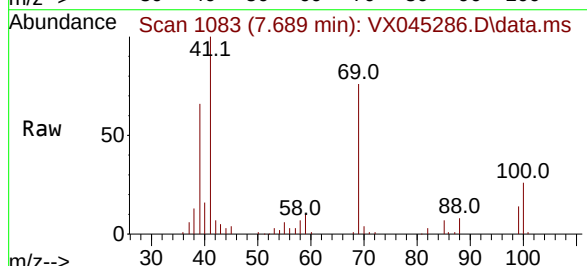
Tgt Ion: 41 Resp: 28686

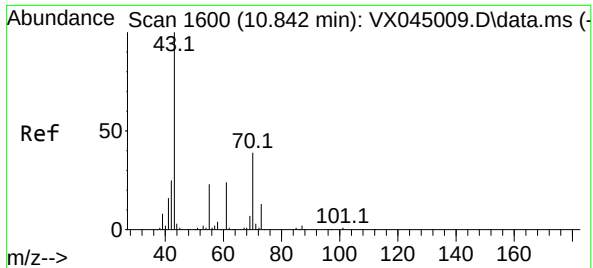
Ion Ratio Lower Upper

41 100

69 75.7 40.7 122.1

39 64.9 29.5 88.5





#47

n-amy1 Acetate

Concen: 19.019 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

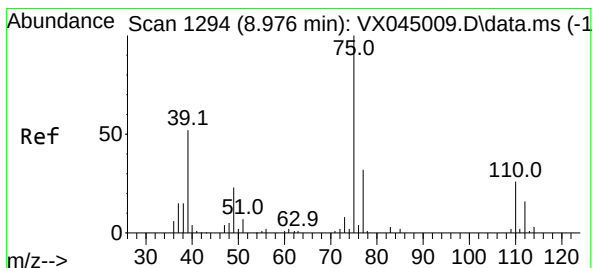
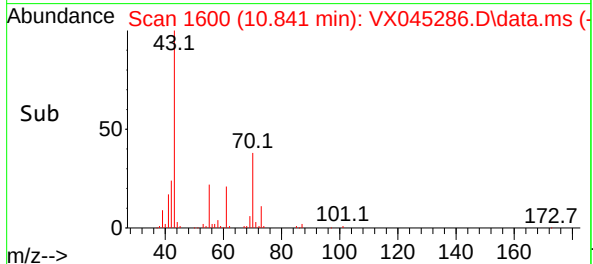
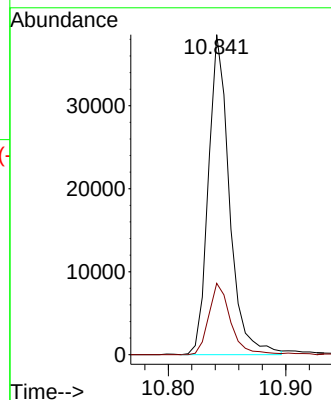
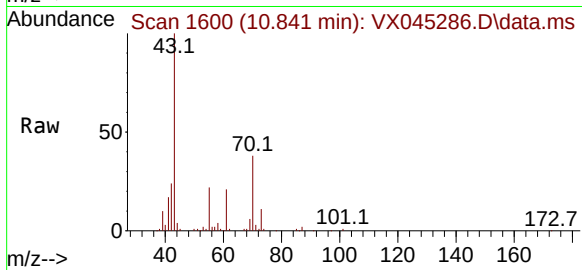
VX0314WBS01

Tgt Ion: 43 Resp: 47912

Ion Ratio Lower Upper

43 100

55 23.1 18.6 27.8



#48

t-1,3-Dichloropropene

Concen: 17.099 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045286.D

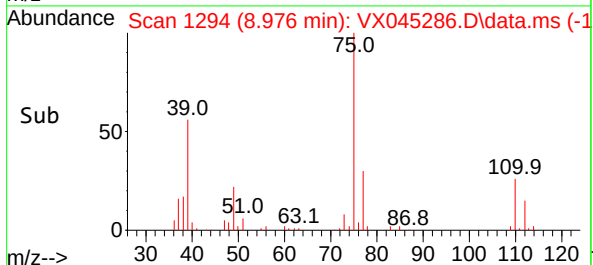
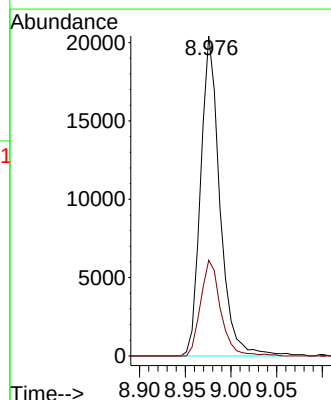
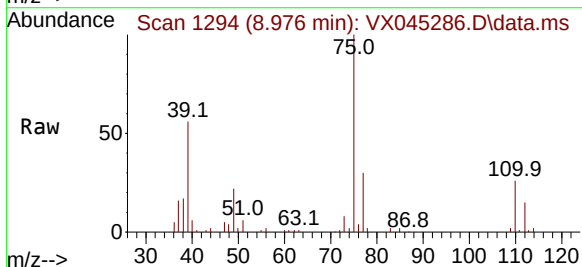
Acq: 14 Mar 2025 10:50

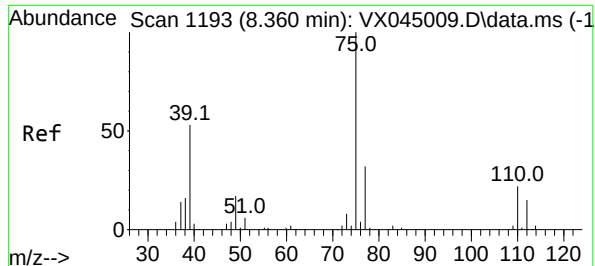
Tgt Ion: 75 Resp: 29844

Ion Ratio Lower Upper

75 100

77 29.9 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 17.661 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

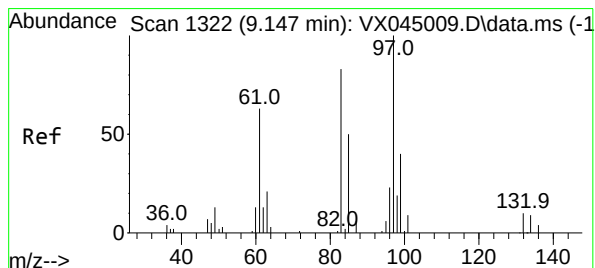
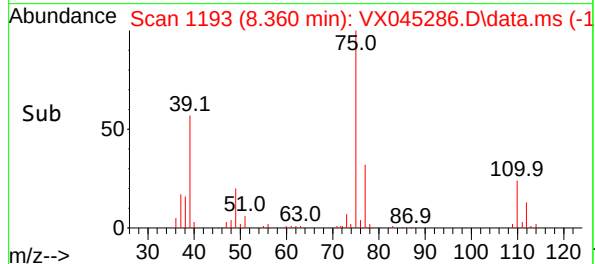
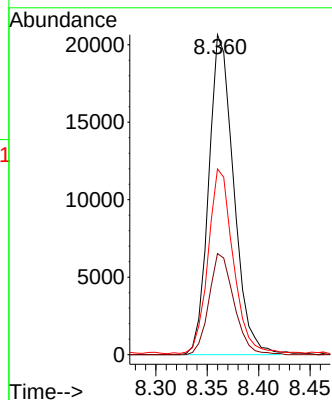
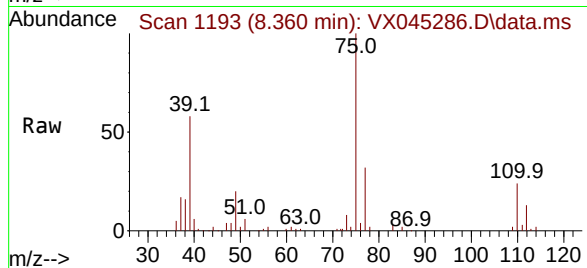
Tgt Ion: 75 Resp: 34894

Ion Ratio Lower Upper

75 100

77 31.6 25.9 38.9

39 57.6 42.3 63.5



#50

1,1,2-Trichloroethane

Concen: 19.325 ug/l

RT: 9.146 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Tgt Ion: 97 Resp: 22966

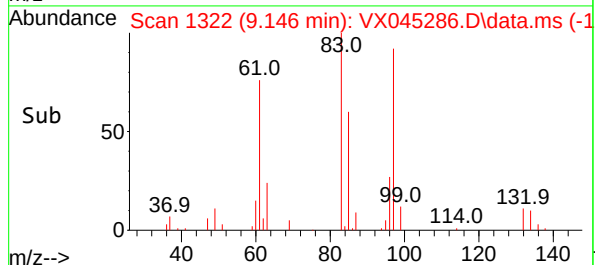
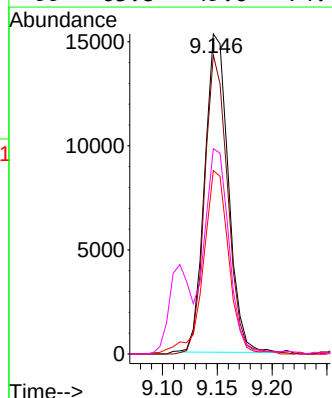
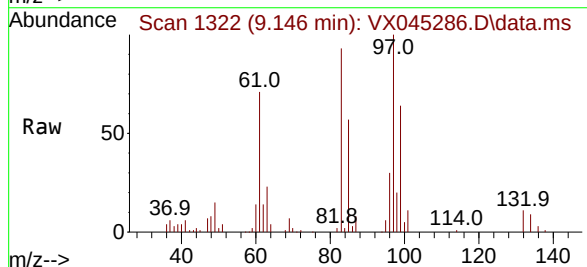
Ion Ratio Lower Upper

97 100

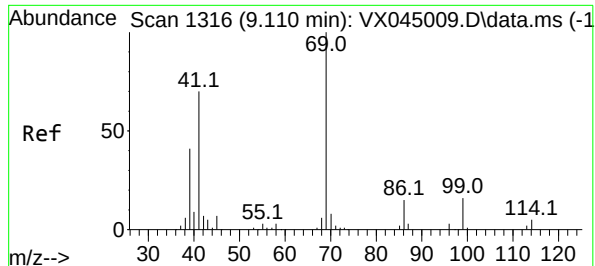
83 93.6 66.0 99.0

85 57.6 42.5 63.7

99 63.8 49.6 74.4







#51

Ethyl methacrylate

Concen: 18.927 ug/l

RT: 9.116 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

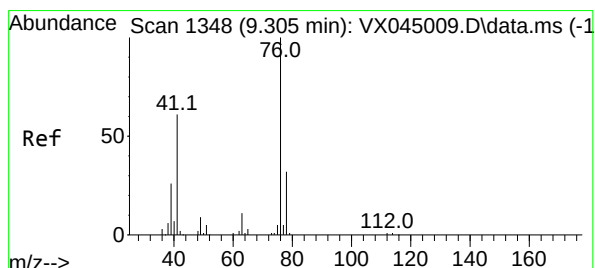
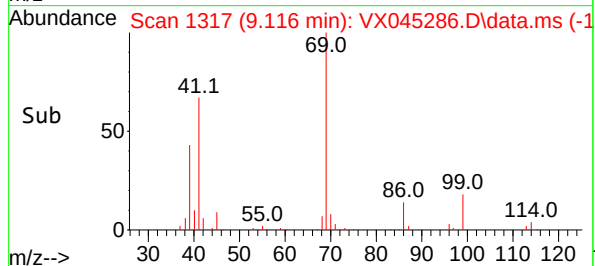
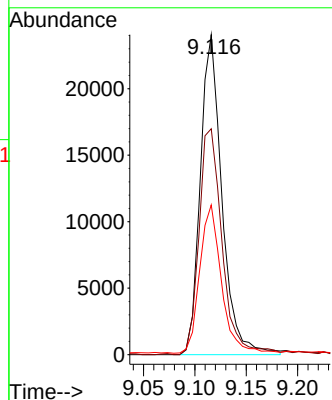
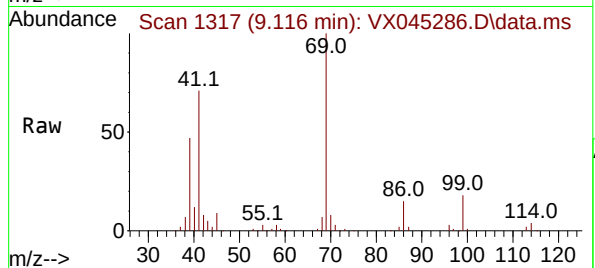
Tgt Ion: 69 Resp: 35374

Ion Ratio Lower Upper

69 100

41 70.6 35.1 105.3

39 46.2 20.5 61.6



#52

1,3-Dichloropropane

Concen: 19.888 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045286.D

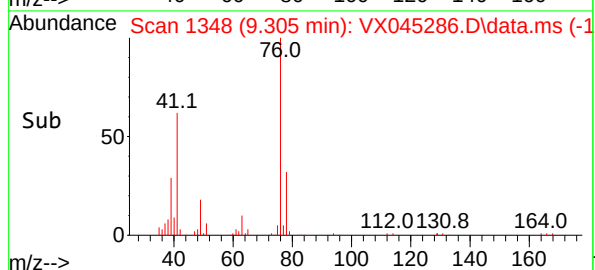
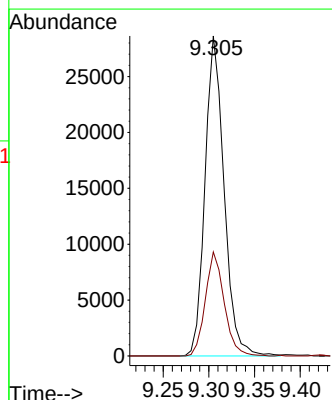
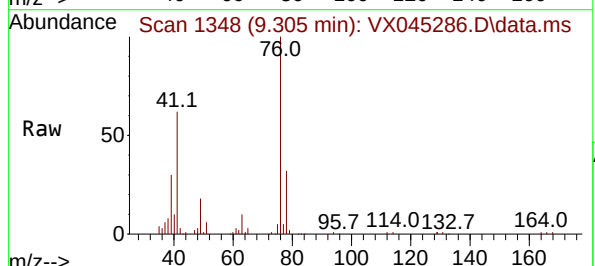
Acq: 14 Mar 2025 10:50

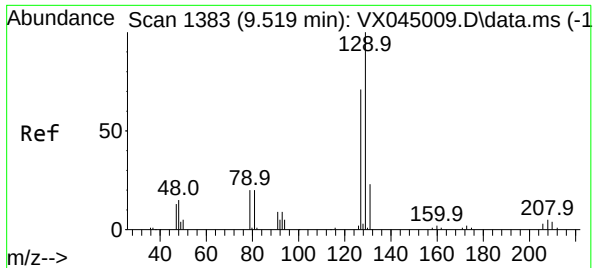
Tgt Ion: 76 Resp: 41412

Ion Ratio Lower Upper

76 100

78 32.1 0.0 63.6

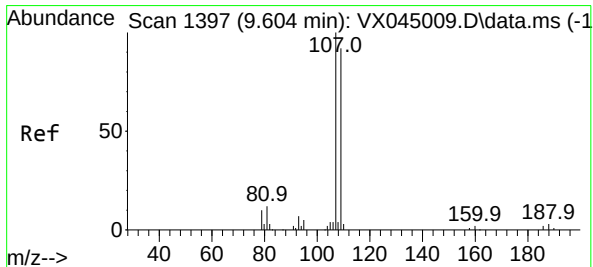
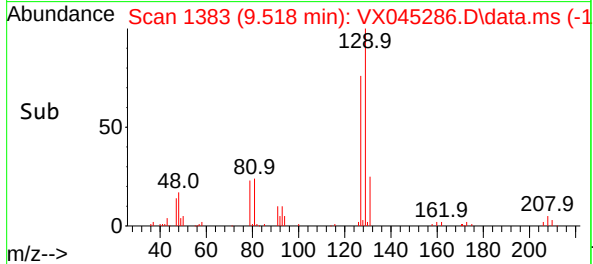
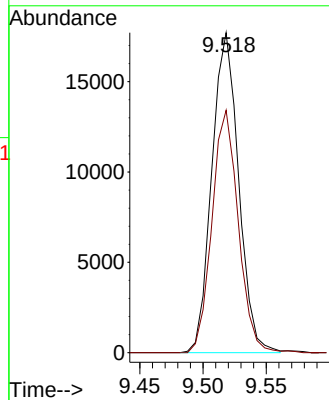
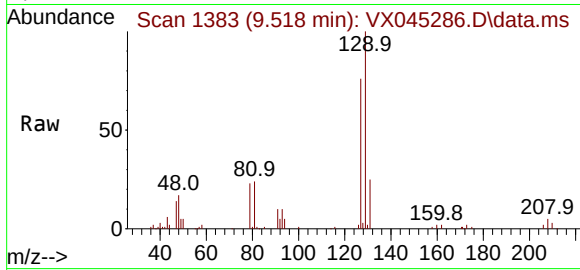




#53  
Dibromochloromethane  
Concen: 19.838 ug/l  
RT: 9.518 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

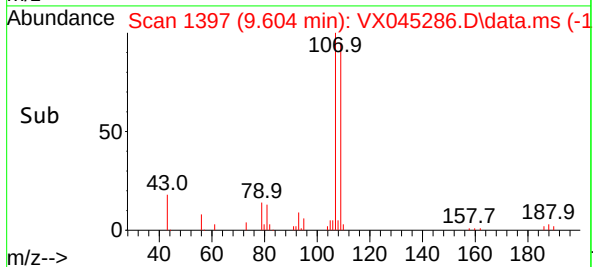
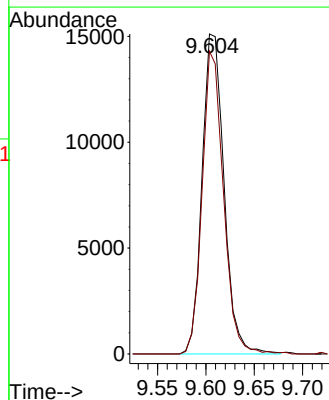
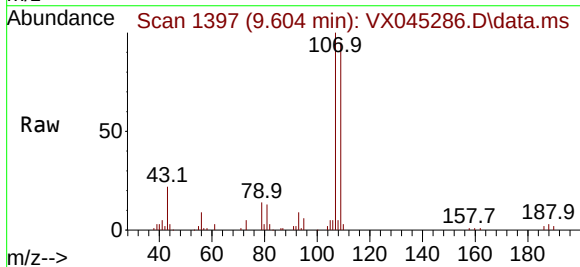
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

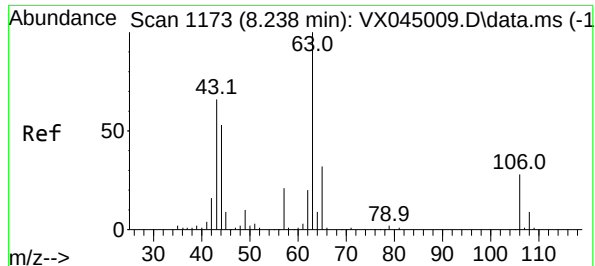
Tgt Ion:129 Resp: 26074  
Ion Ratio Lower Upper  
129 100  
127 74.5 37.3 111.9



#54  
1,2-Dibromoethane  
Concen: 19.834 ug/l  
RT: 9.604 min Scan# 1397  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion:107 Resp: 23935  
Ion Ratio Lower Upper  
107 100  
109 91.5 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 99.365 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

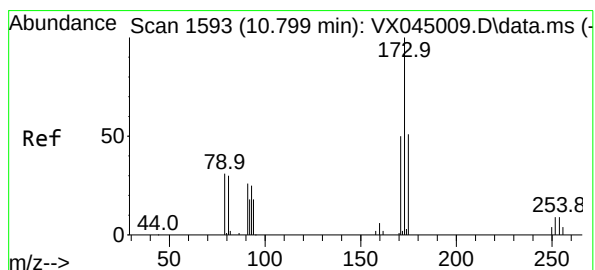
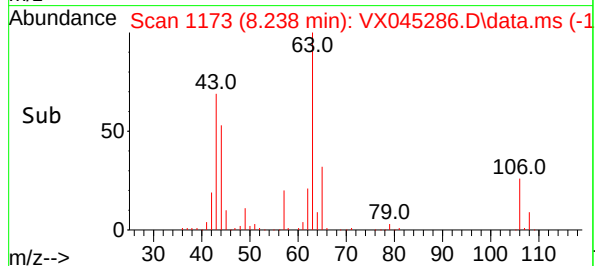
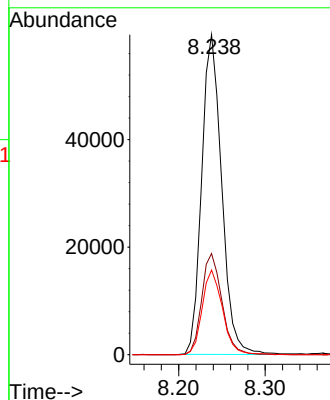
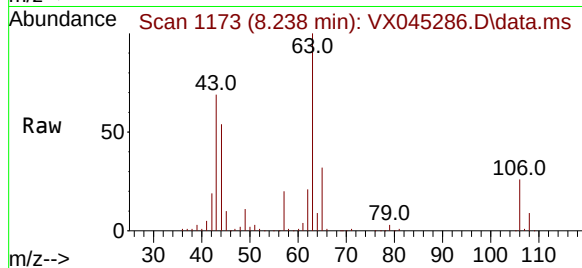
Tgt Ion: 63 Resp: 95369

Ion Ratio Lower Upper

63 100

65 31.8 26.2 39.2

106 26.7 21.2 31.8



#56

Bromoform

Concen: 19.246 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

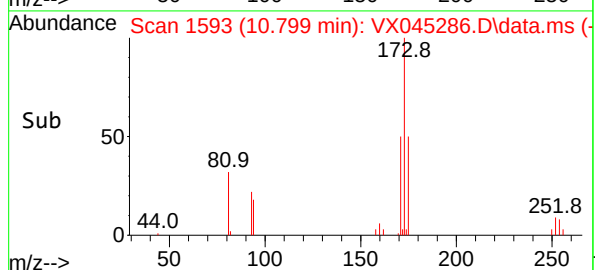
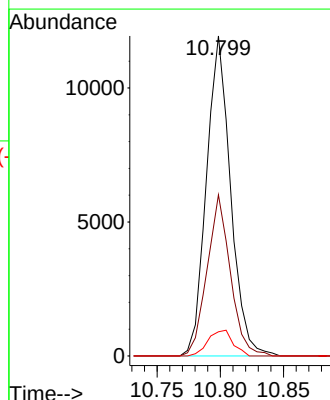
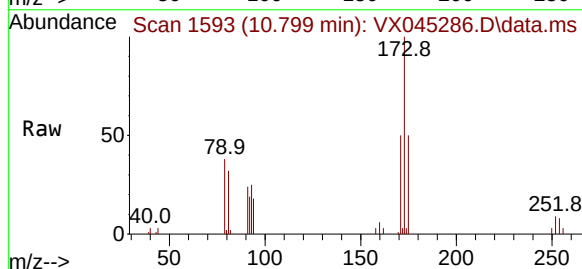
Tgt Ion: 173 Resp: 15851

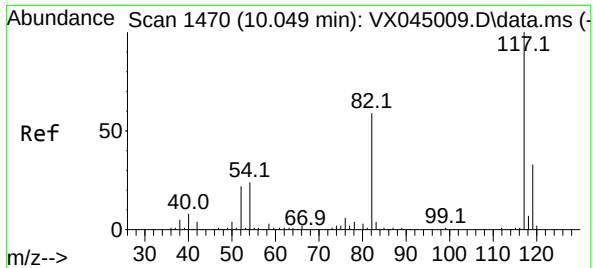
Ion Ratio Lower Upper

173 100

175 48.7 39.6 59.4

254 8.3 6.3 9.5





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

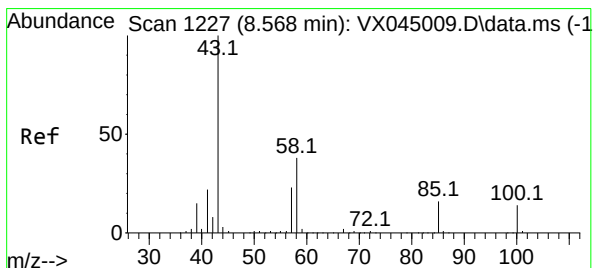
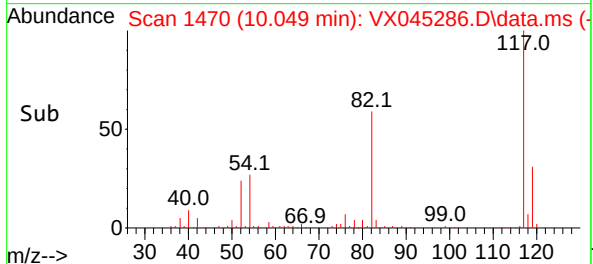
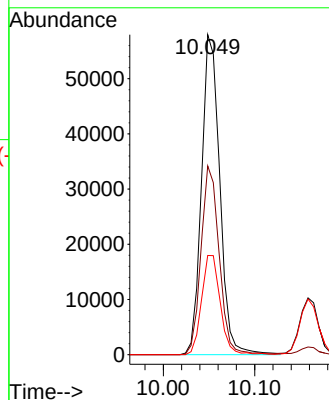
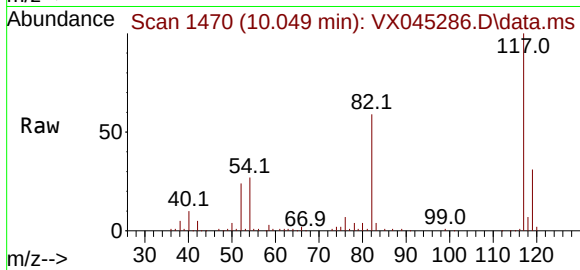
Tgt Ion:117 Resp: 80688

Ion Ratio Lower Upper

117 100

82 58.6 45.8 68.8

119 31.5 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 110.592 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

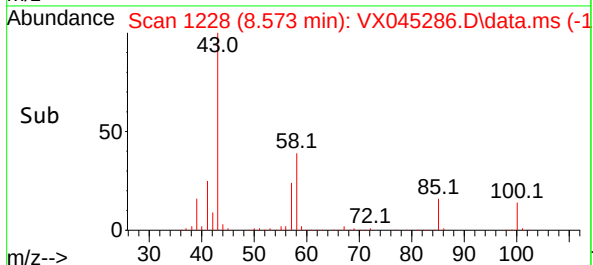
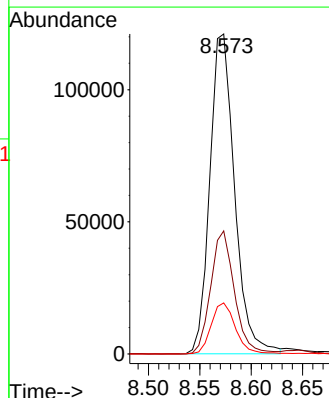
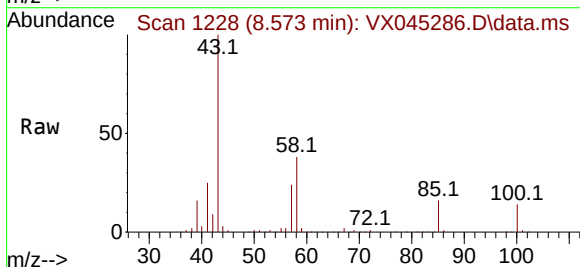
Tgt Ion: 43 Resp: 202990

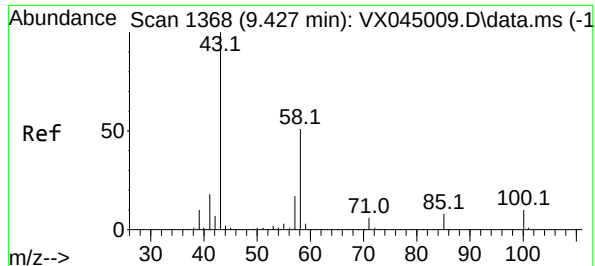
Ion Ratio Lower Upper

43 100

58 36.9 29.5 44.3

85 15.7 12.9 19.3





#59

2-Hexanone

Concen: 113.286 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

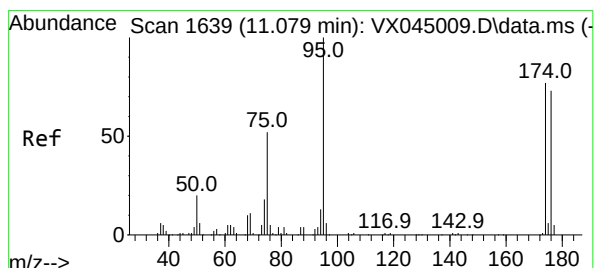
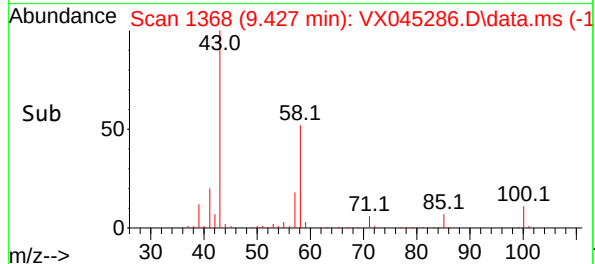
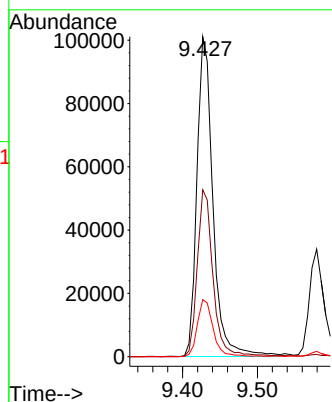
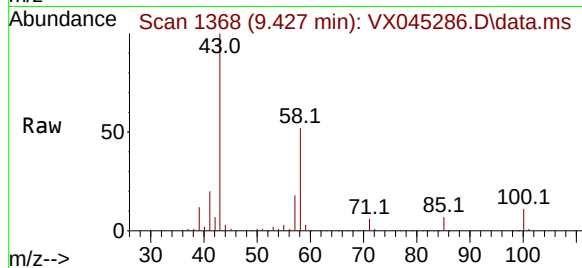
Tgt Ion: 43 Resp: 150297

Ion Ratio Lower Upper

43 100

58 50.9 41.6 62.4

57 17.4 13.8 20.6



#60

4-Bromofluorobenzene

Concen: 30.782 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

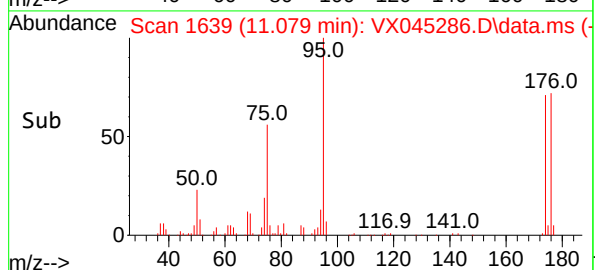
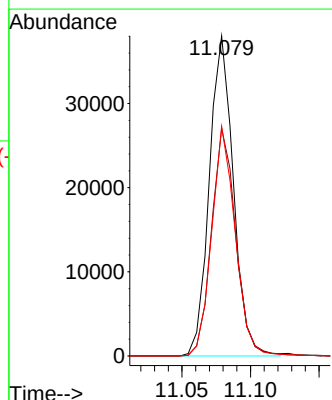
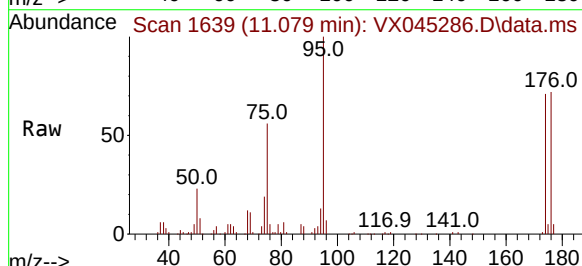
Tgt Ion: 95 Resp: 46424

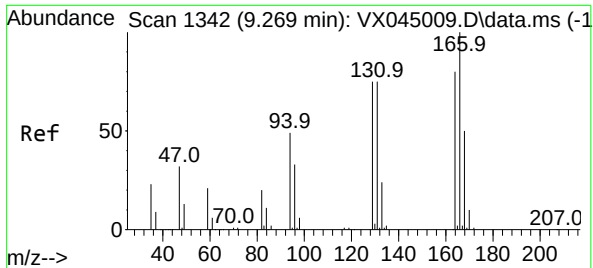
Ion Ratio Lower Upper

95 100

174 71.9 59.5 89.3

176 70.4 55.5 83.3

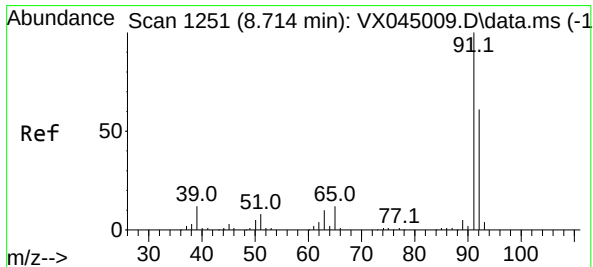
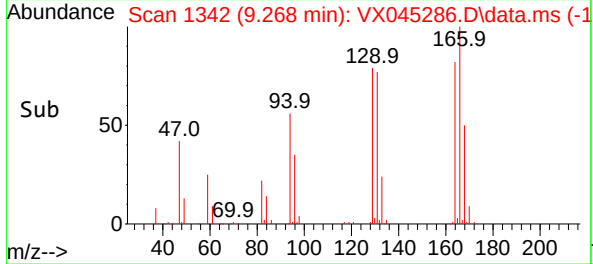
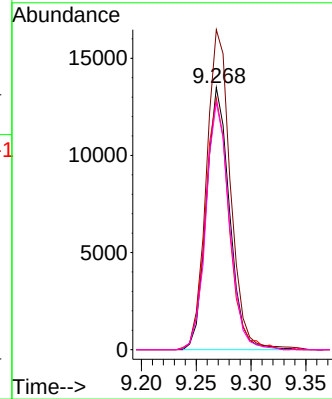
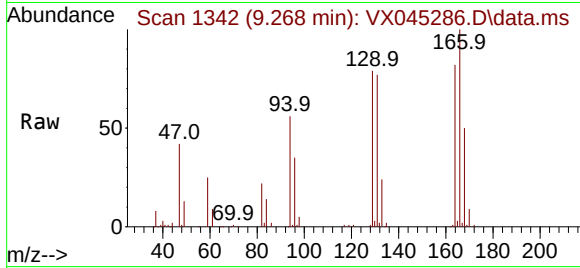




#61  
Tetrachloroethene  
Concen: 19.989 ug/l  
RT: 9.268 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

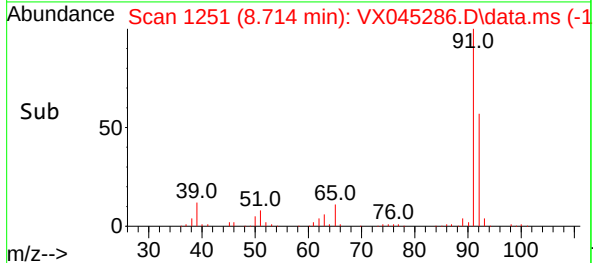
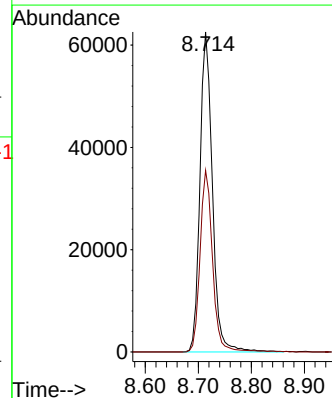
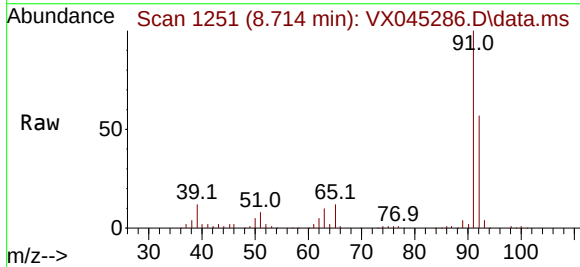
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

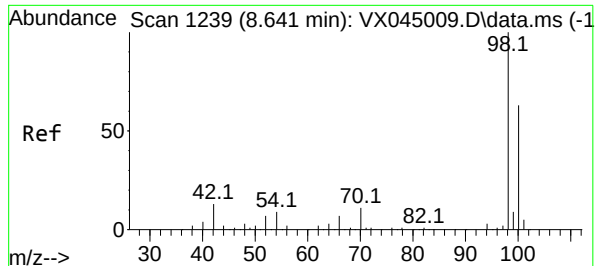
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 19861 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 121.6 | 100.3 | 150.5 |
| 129      | 95.9  | 75.5  | 113.3 |
| 131      | 94.4  | 74.9  | 112.3 |



#62  
Toluene  
Concen: 19.101 ug/l  
RT: 8.714 min Scan# 1251  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 102099 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 56.8  | 46.9  | 70.3   |





#63

Toluene-d8

Concen: 30.891 ug/l

RT: 8.646 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

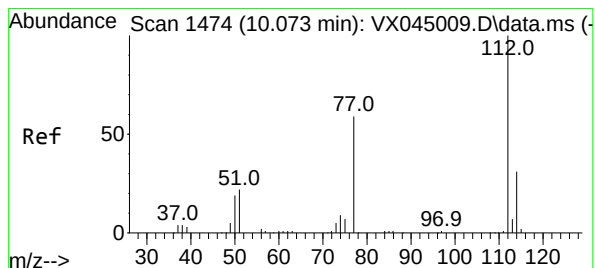
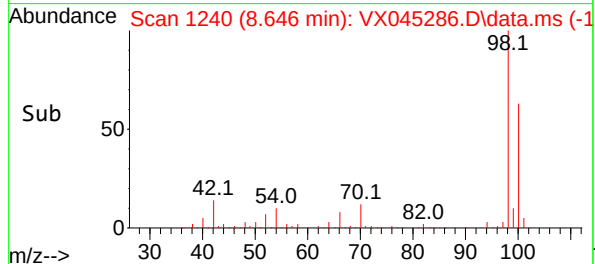
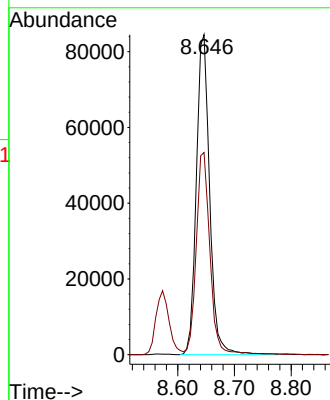
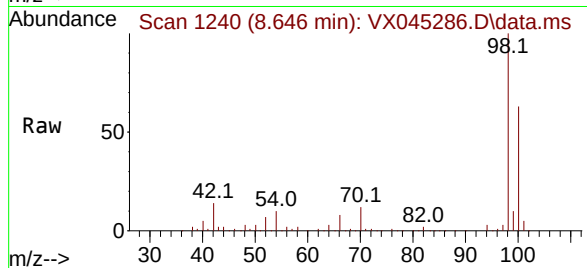
VX0314WBS01

Tgt Ion: 98 Resp: 137890

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5



#64

Chlorobenzene

Concen: 18.998 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VX045286.D

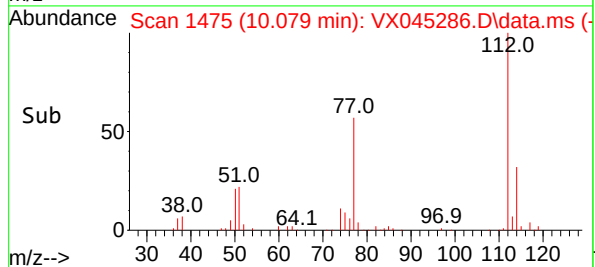
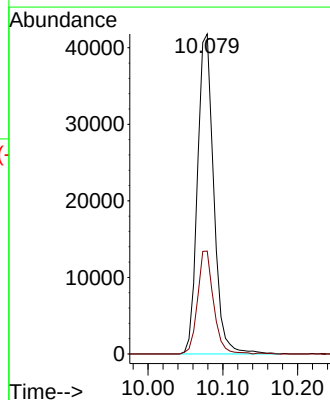
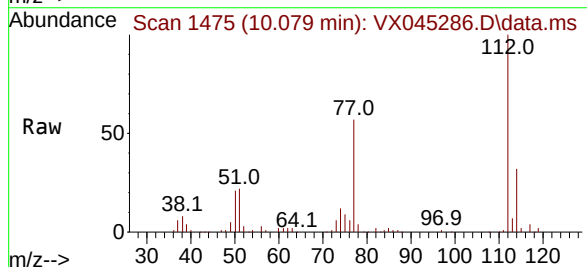
Acq: 14 Mar 2025 10:50

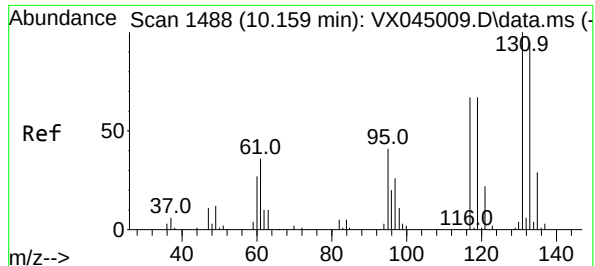
Tgt Ion: 112 Resp: 62926

Ion Ratio Lower Upper

112 100

114 32.1 24.7 37.1

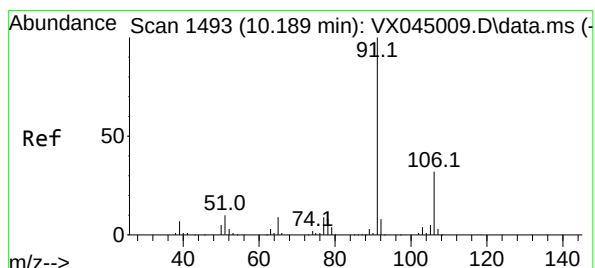
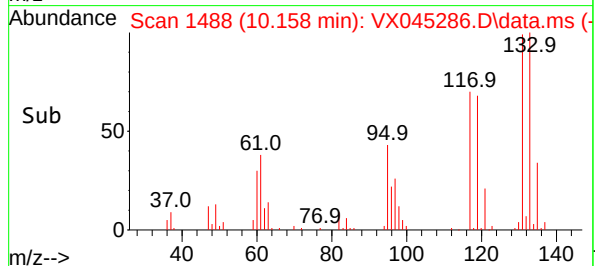
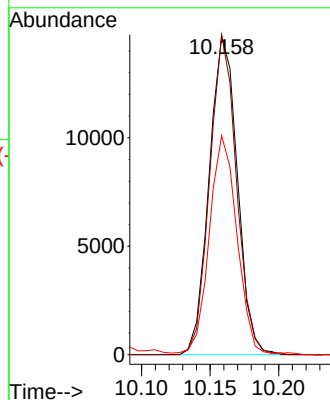
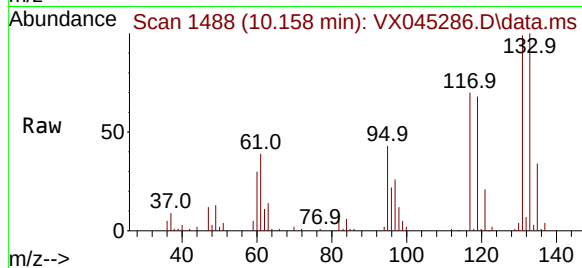




#65  
1,1,1,2-Tetrachloroethane  
Concen: 19.197 ug/l  
RT: 10.158 min Scan# 1488  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

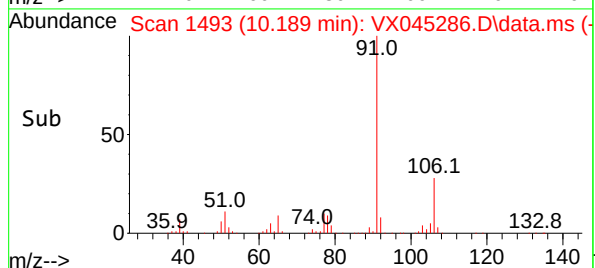
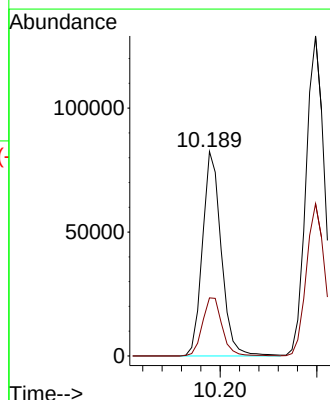
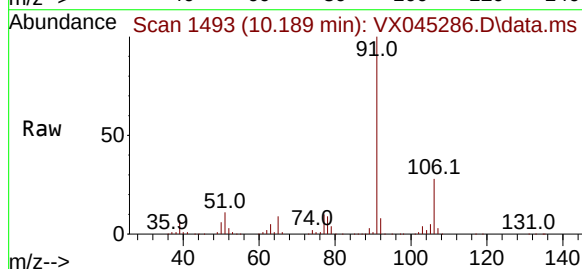
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

Tgt Ion:131 Resp: 20981  
Ion Ratio Lower Upper  
131 100  
133 95.7 0.0 187.8  
119 67.3 0.0 133.0

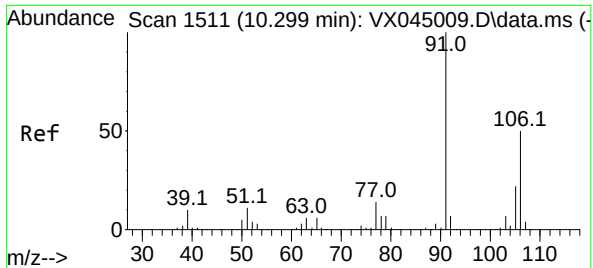


#66  
Ethyl Benzene  
Concen: 19.082 ug/l  
RT: 10.189 min Scan# 1493  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 91 Resp: 111664  
Ion Ratio Lower Upper  
91 100  
106 28.4 25.4 38.2



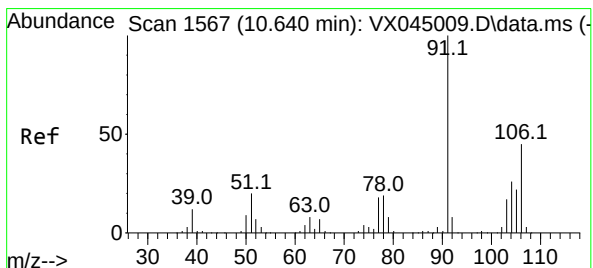
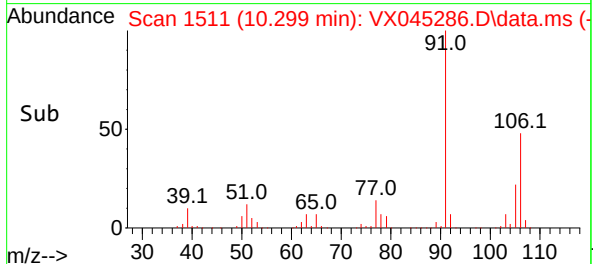
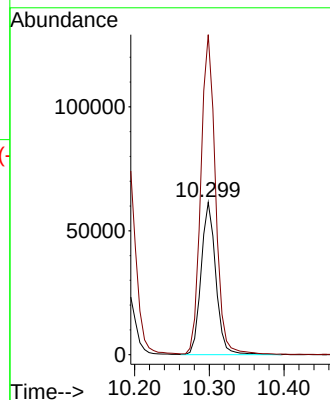
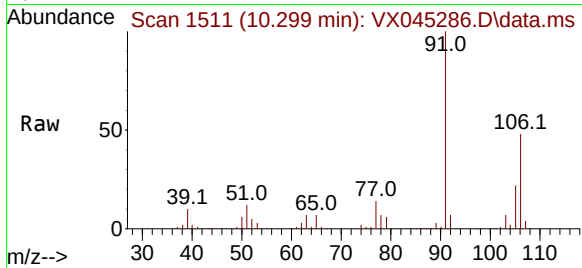




#67  
m/p-Xylenes  
Concen: 38.538 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

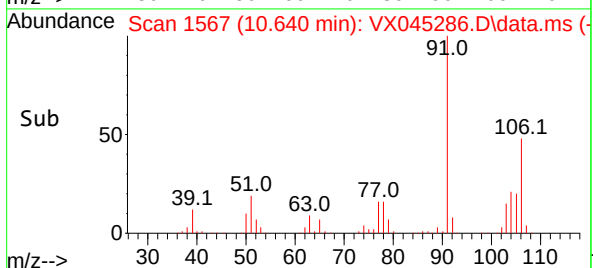
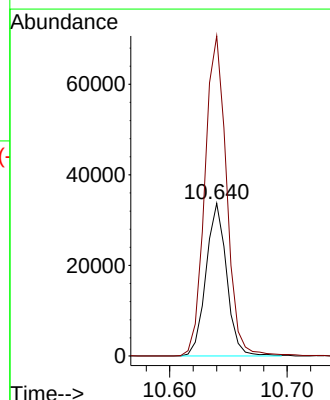
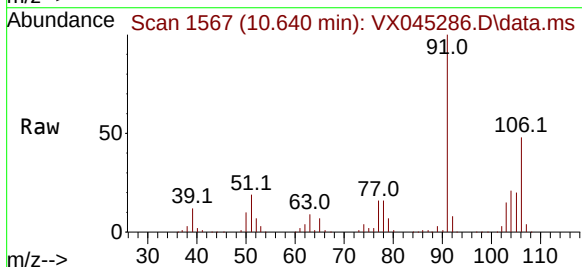
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

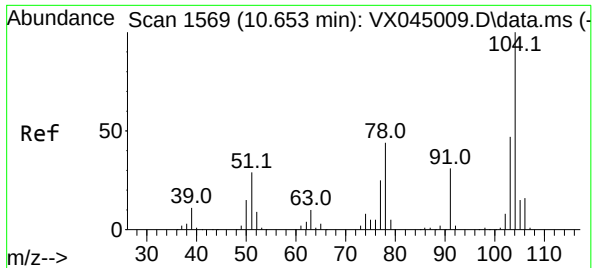
Tgt Ion:106 Resp: 84024  
Ion Ratio Lower Upper  
106 100  
91 209.9 163.7 245.5



#68  
o-Xylene  
Concen: 19.266 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion:106 Resp: 41215  
Ion Ratio Lower Upper  
106 100  
91 220.5 109.7 329.1





#69

Styrene

Concen: 18.850 ug/l

RT: 10.652 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

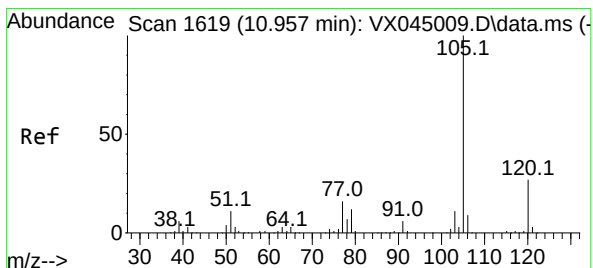
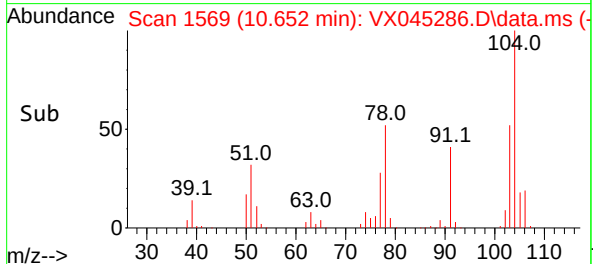
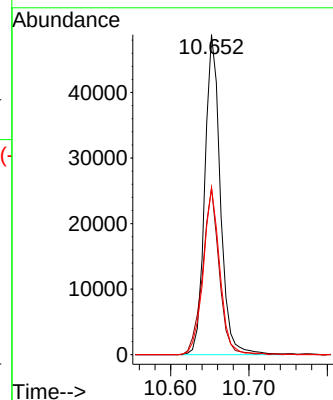
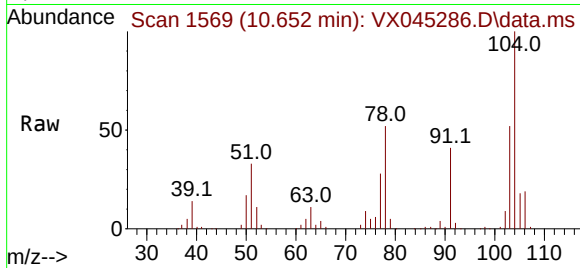
Tgt Ion:104 Resp: 67348

Ion Ratio Lower Upper

104 100

78 55.2 41.4 62.0

103 55.0 43.0 64.4



#70

Isopropylbenzene

Concen: 19.671 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX045286.D

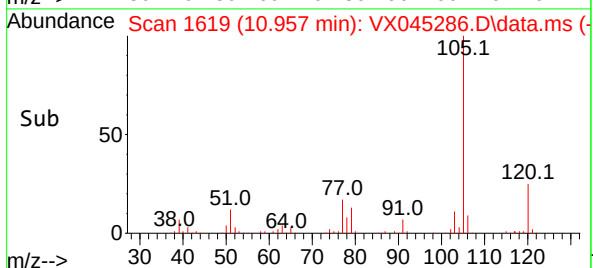
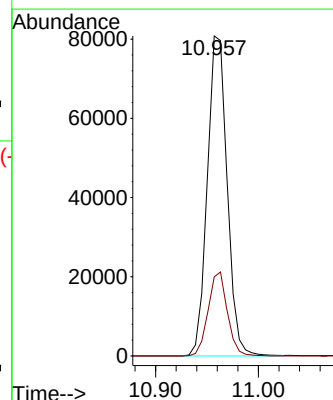
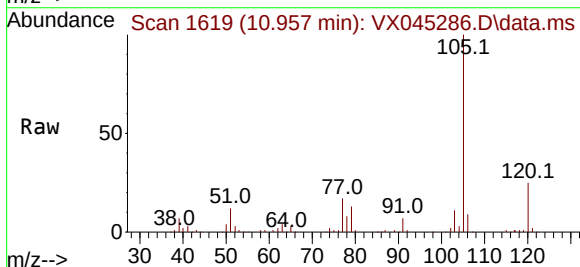
Acq: 14 Mar 2025 10:50

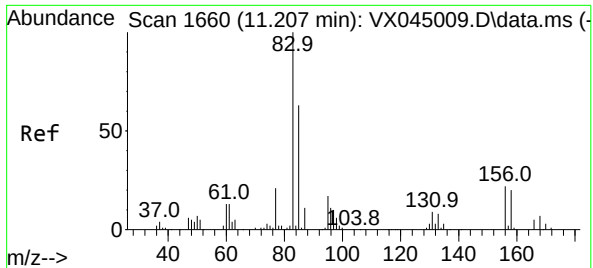
Tgt Ion:105 Resp: 108595

Ion Ratio Lower Upper

105 100

120 25.4 18.4 34.2

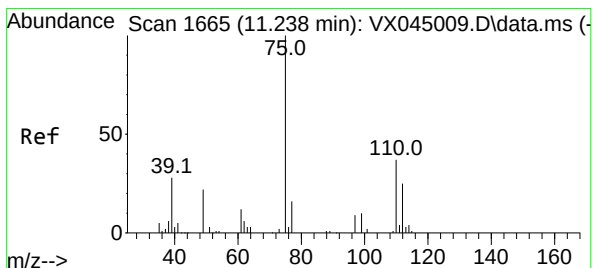
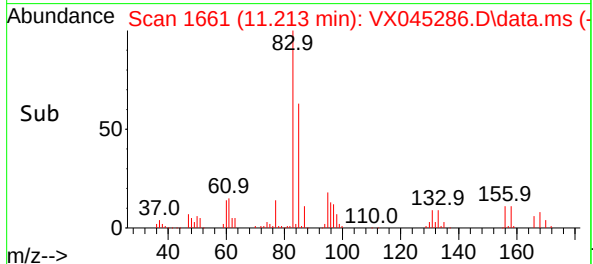
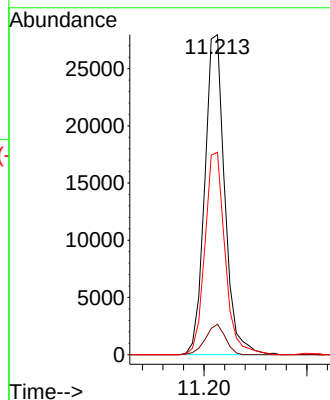
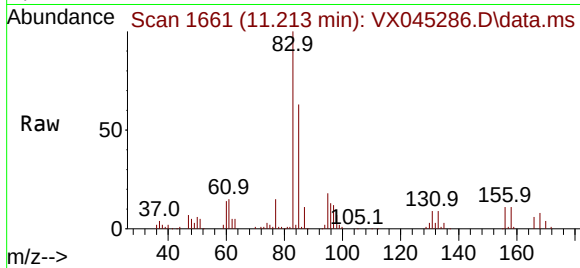




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.881 ug/l  
 RT: 11.213 min Scan# 1661  
 Delta R.T. 0.006 min  
 Lab File: VX045286.D  
 Acq: 14 Mar 2025 10:50

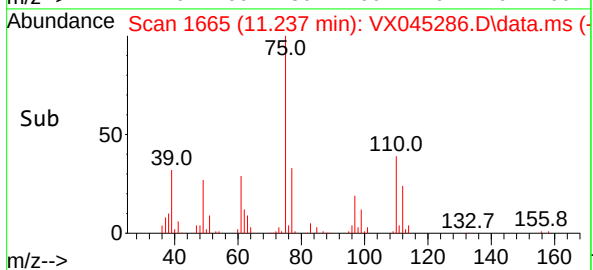
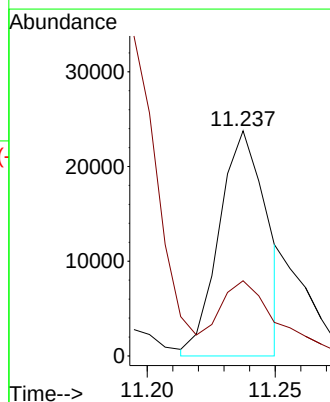
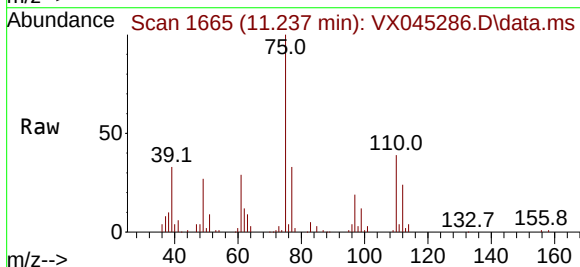
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBS01

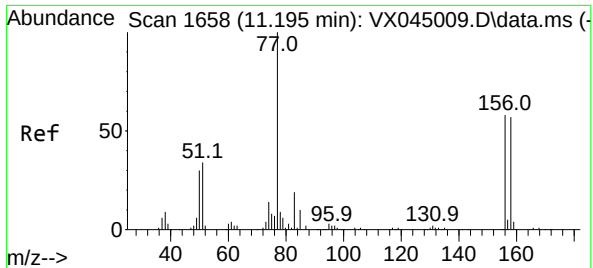
Tgt Ion: 83 Resp: 37905  
 Ion Ratio Lower Upper  
 83 100  
 131 9.4 4.8 14.3  
 85 63.7 32.3 96.8



#72  
 1,2,3-Trichloropropane  
 Concen: 20.593 ug/l m  
 RT: 11.237 min Scan# 1665  
 Delta R.T. -0.000 min  
 Lab File: VX045286.D  
 Acq: 14 Mar 2025 10:50

Tgt Ion: 75 Resp: 30748  
 Ion Ratio Lower Upper  
 75 100  
 77 41.7 0.0 84.0

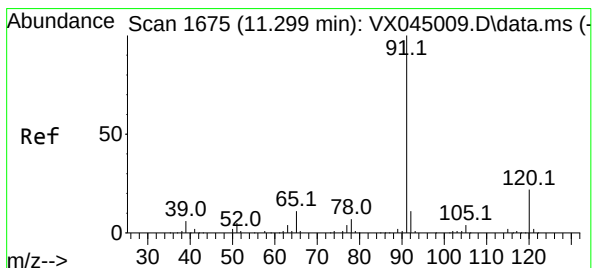
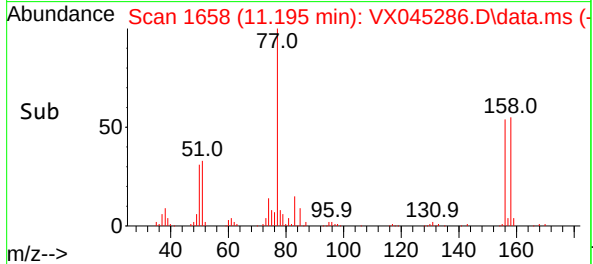
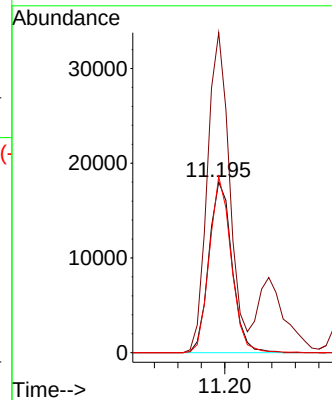
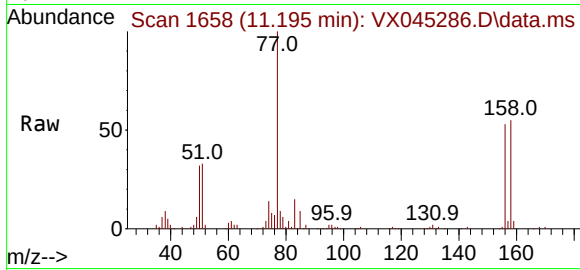




#73  
Bromobenzene  
Concen: 19.400 ug/l  
RT: 11.195 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

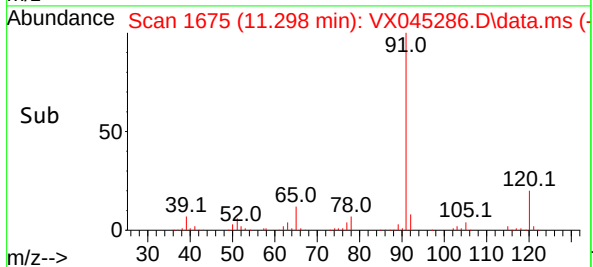
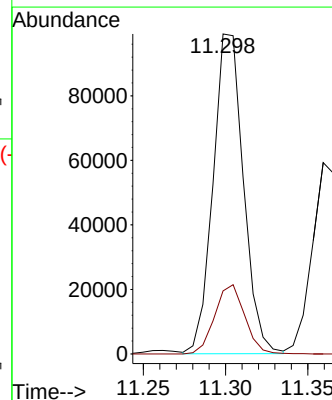
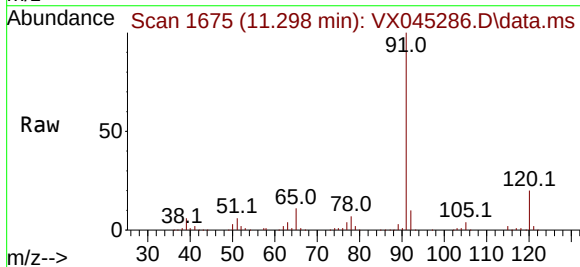
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

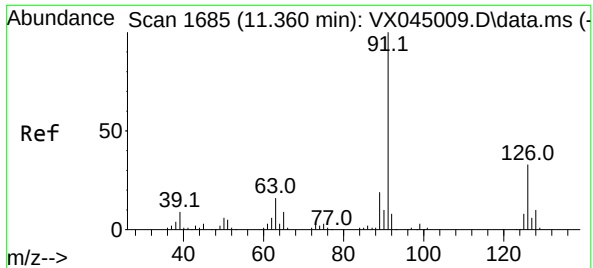
Tgt Ion:156 Resp: 24655  
Ion Ratio Lower Upper  
156 100  
77 180.1 0.0 347.2  
158 97.5 0.0 197.6



#74  
n-propylbenzene  
Concen: 19.402 ug/l  
RT: 11.298 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 91 Resp: 127460  
Ion Ratio Lower Upper  
91 100  
120 21.4 0.0 44.2

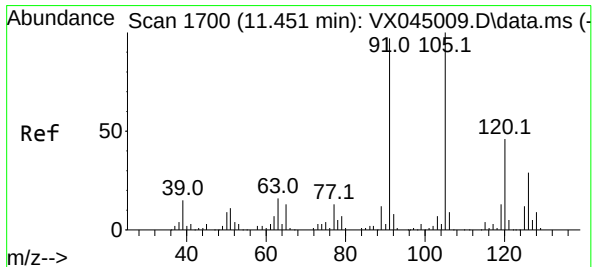
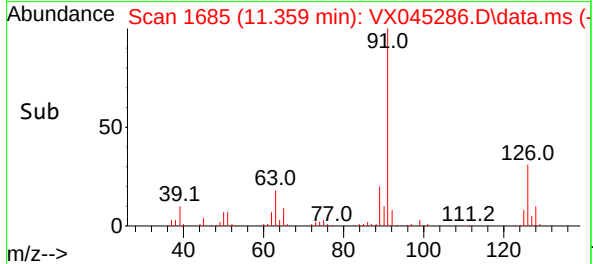
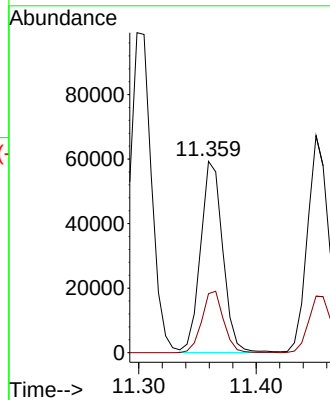
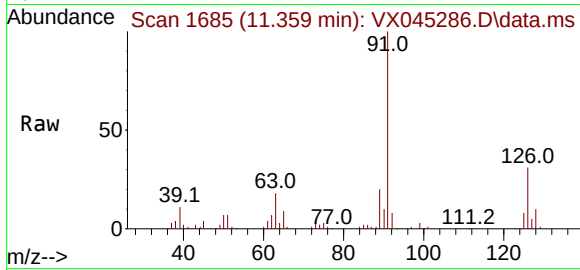




#75  
2-Chlorotoluene  
Concen: 19.648 ug/l  
RT: 11.359 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

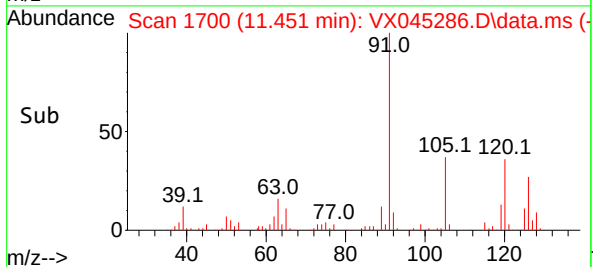
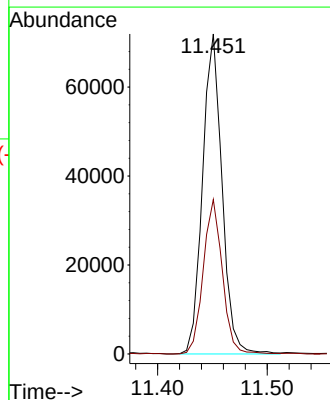
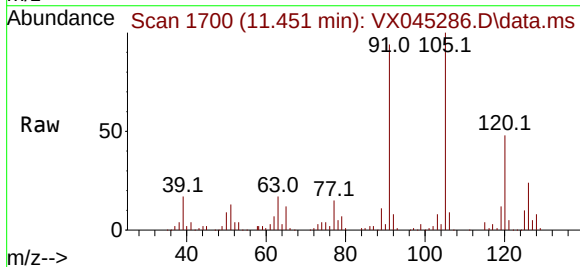
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

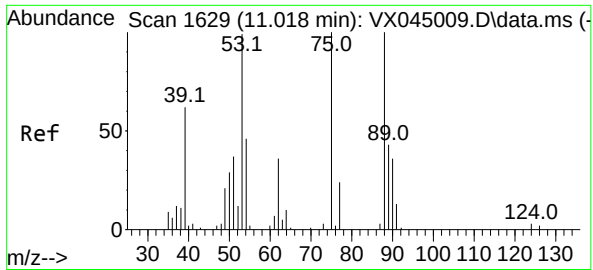
Tgt Ion: 91 Resp: 78036  
Ion Ratio Lower Upper  
91 100  
126 31.3 0.0 65.4



#76  
1,3,5-Trimethylbenzene  
Concen: 19.499 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 105 Resp: 88806  
Ion Ratio Lower Upper  
105 100  
120 47.2 0.0 94.4

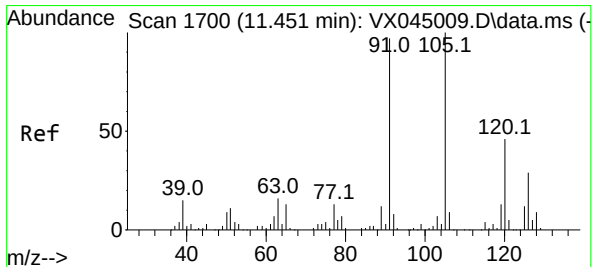
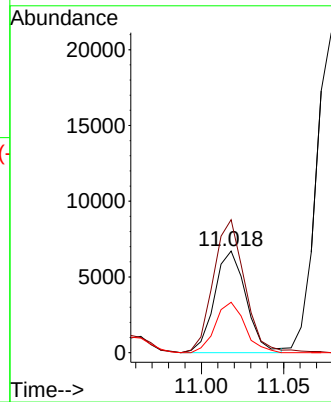
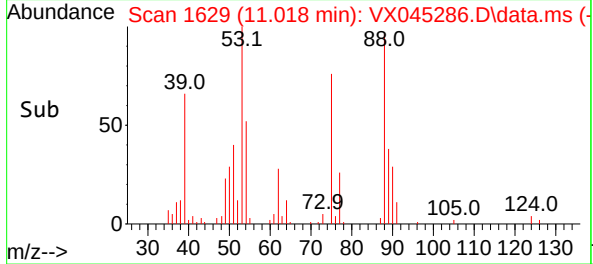
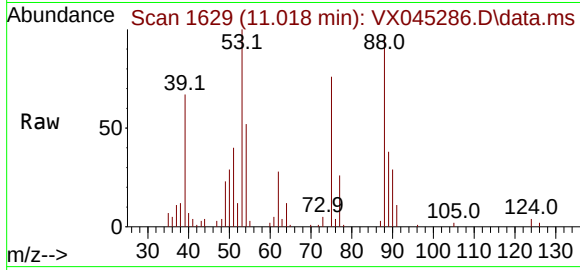




#77  
t-1,4-Dichloro-2-butene  
Concen: 17.918 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

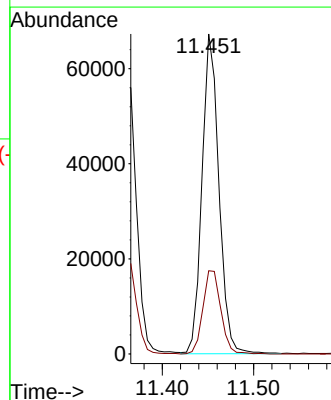
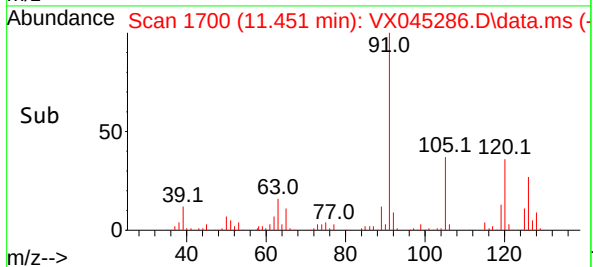
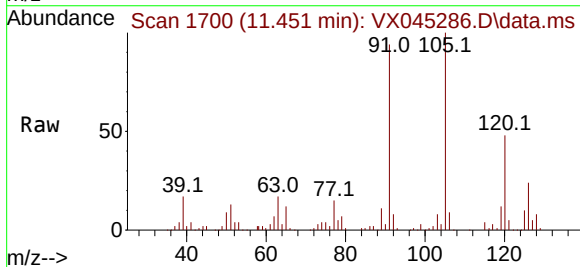
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

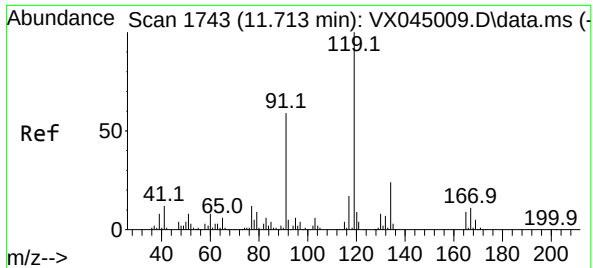
Tgt Ion: 75 Resp: 9001  
Ion Ratio Lower Upper  
75 100  
53 130.8 49.8 149.4  
89 49.6 21.4 64.2



#78  
4-Chlorotoluene  
Concen: 19.486 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 91 Resp: 86271  
Ion Ratio Lower Upper  
91 100  
126 27.6 0.0 58.0

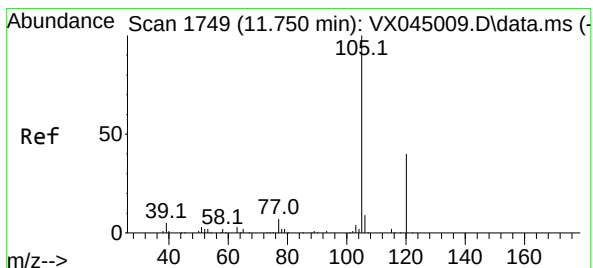
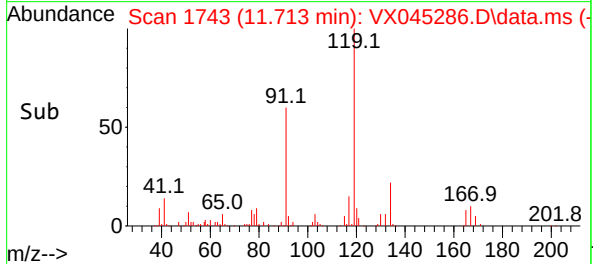
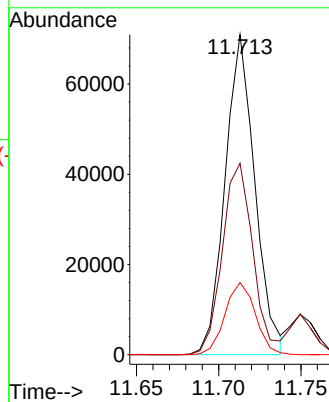
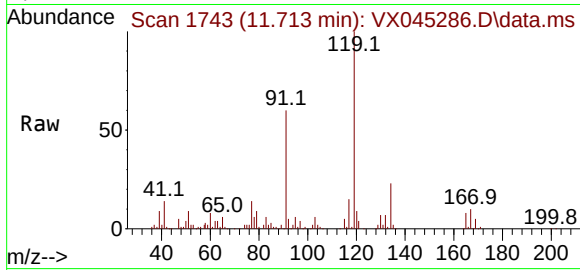




#79  
tert-butylbenzene  
Concen: 19.537 ug/l  
RT: 11.713 min Scan# 1743  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

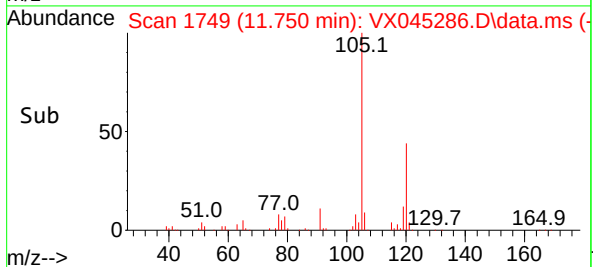
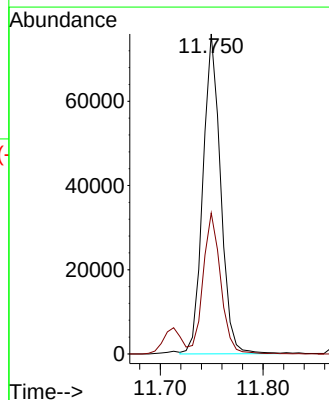
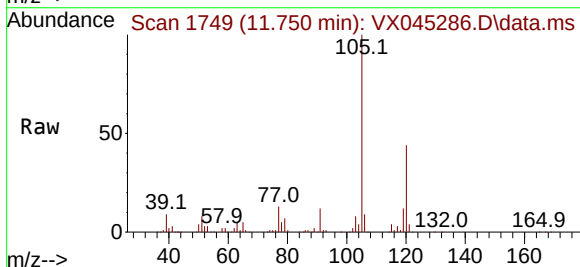
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

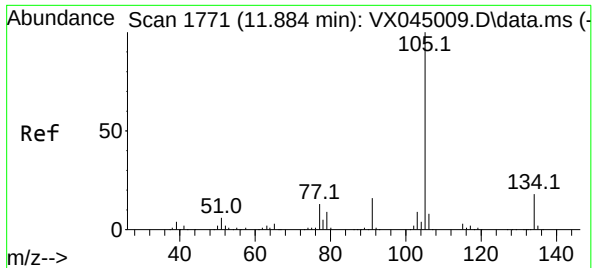
Tgt Ion:119 Resp: 89649  
Ion Ratio Lower Upper  
119 100  
91 61.7 0.0 120.6  
134 23.0 0.0 48.2



#80  
1,2,4-Trimethylbenzene  
Concen: 19.911 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion:105 Resp: 90836  
Ion Ratio Lower Upper  
105 100  
120 43.9 0.0 88.4





#81

sec-Butylbenzene

Concen: 19.453 ug/l

RT: 11.890 min Scan# 1771

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

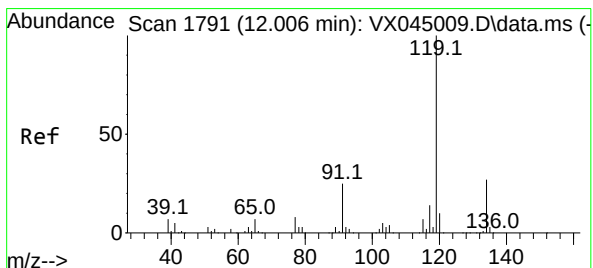
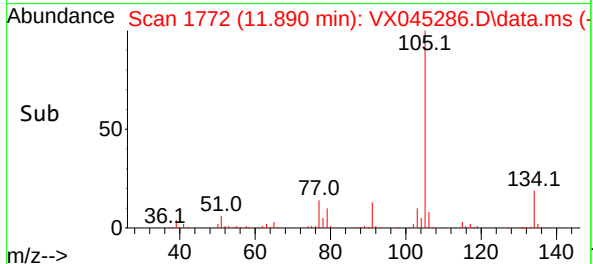
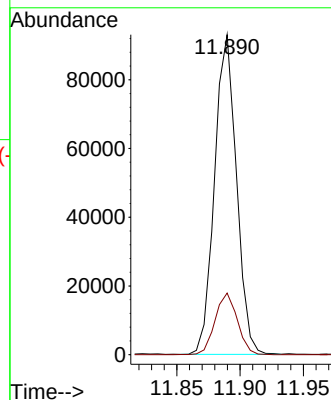
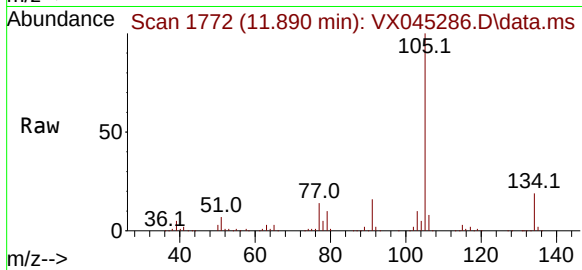
VX0314WBS01

Tgt Ion:105 Resp: 112033

Ion Ratio Lower Upper

105 100

134 19.5 0.0 39.0



#82

p-Isopropyltoluene

Concen: 19.502 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

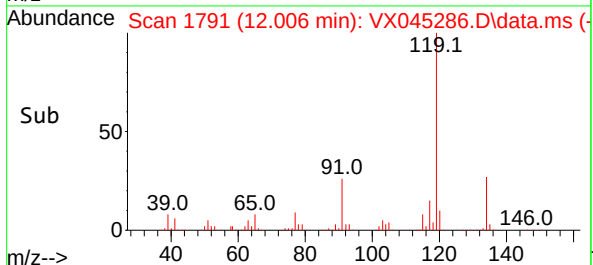
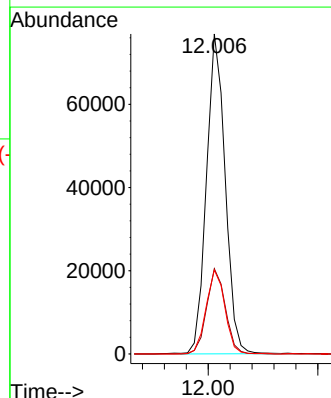
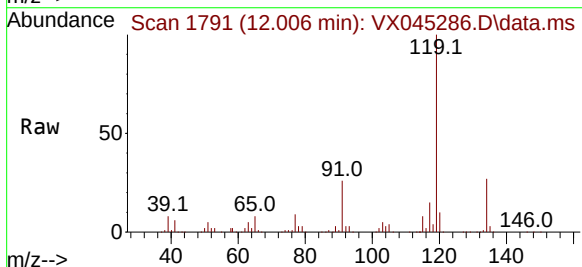
Tgt Ion:119 Resp: 91002

Ion Ratio Lower Upper

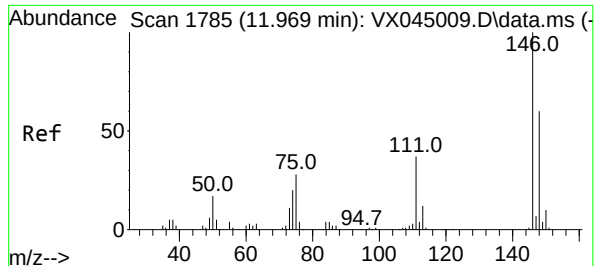
119 100

134 26.5 0.0 52.6

91 26.1 0.0 51.0







#83

1,3-Dichlorobenzene

Concen: 19.258 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

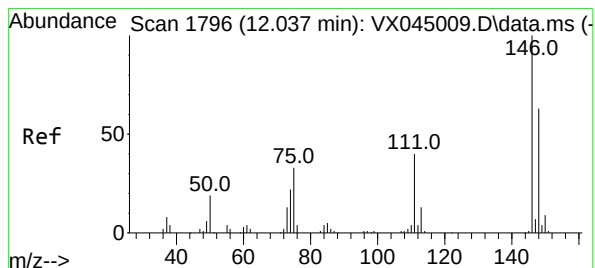
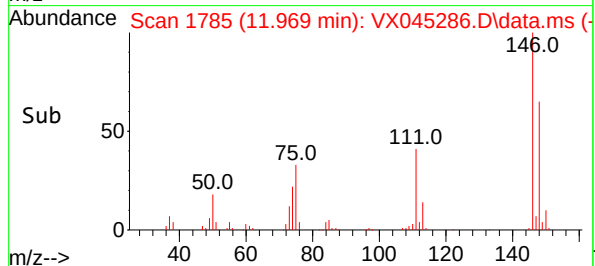
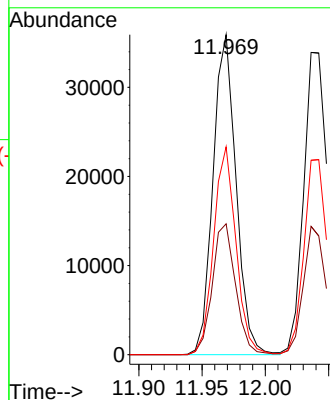
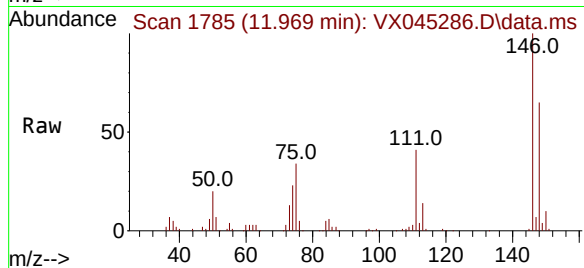
Tgt Ion:146 Resp: 45537

Ion Ratio Lower Upper

146 100

111 41.3 20.2 60.5

148 63.0 31.2 93.6



#84

1,4-Dichlorobenzene

Concen: 19.289 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

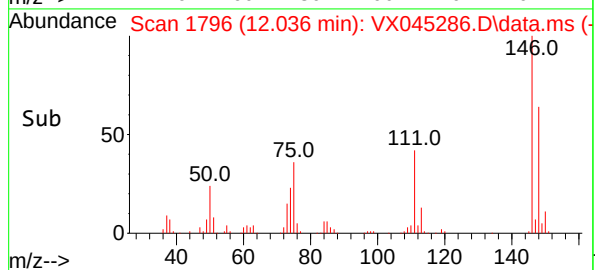
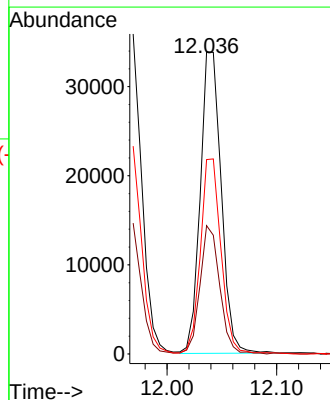
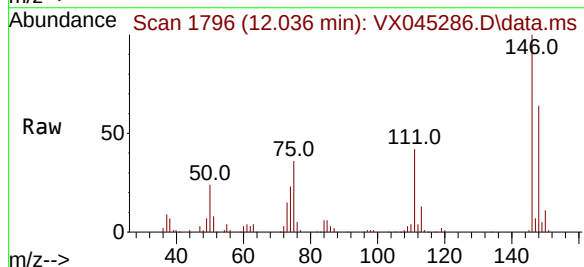
Tgt Ion:146 Resp: 44970

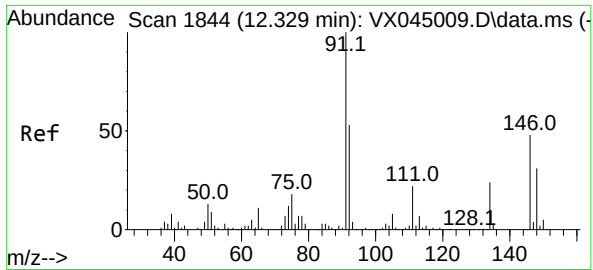
Ion Ratio Lower Upper

146 100

111 39.9 20.4 61.2

148 63.4 31.8 95.4





#85

n-Butylbenzene

Concen: 19.023 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

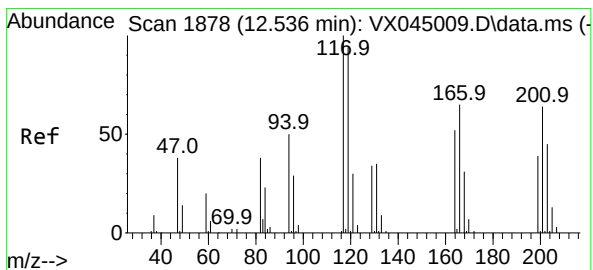
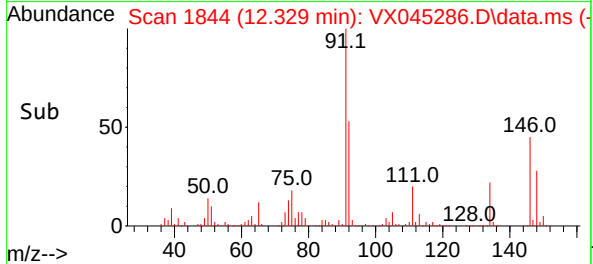
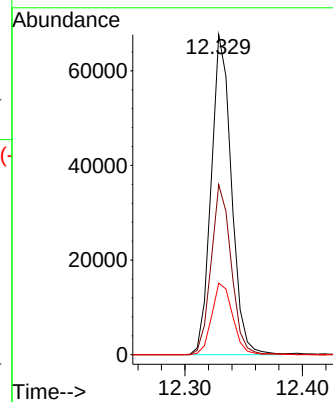
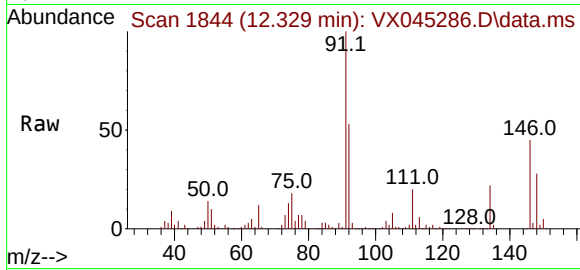
Tgt Ion: 91 Resp: 81061

Ion Ratio Lower Upper

91 100

92 52.6 0.0 105.2

134 23.0 0.0 49.4



#86

Hexachloroethane

Concen: 19.087 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045286.D

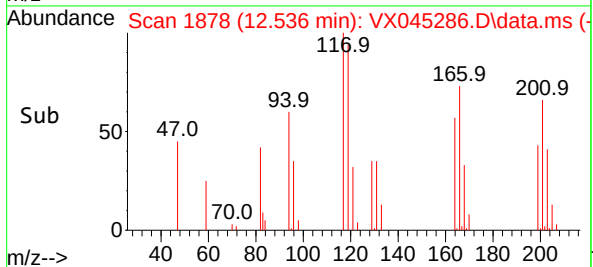
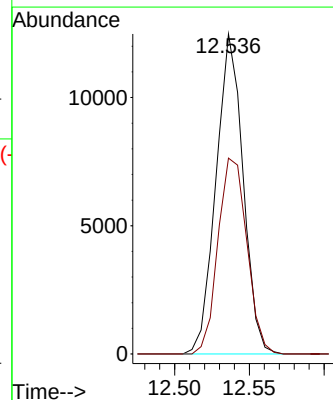
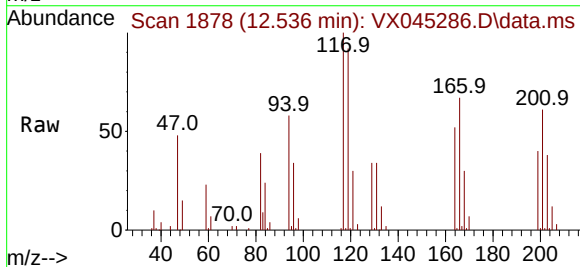
Acq: 14 Mar 2025 10:50

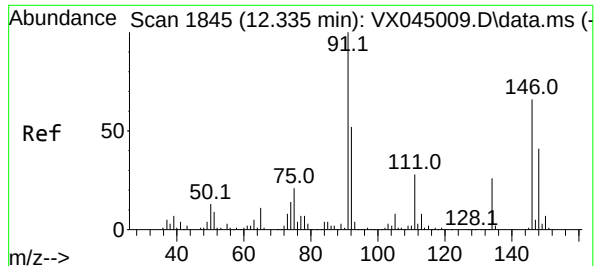
Tgt Ion: 117 Resp: 15708

Ion Ratio Lower Upper

117 100

201 65.4 32.6 97.7

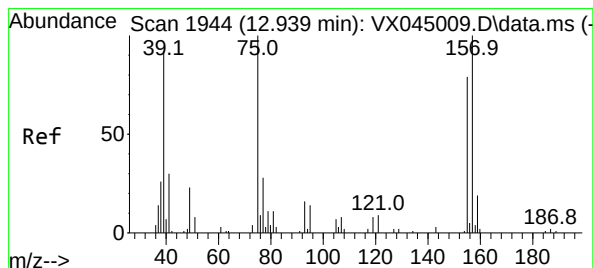
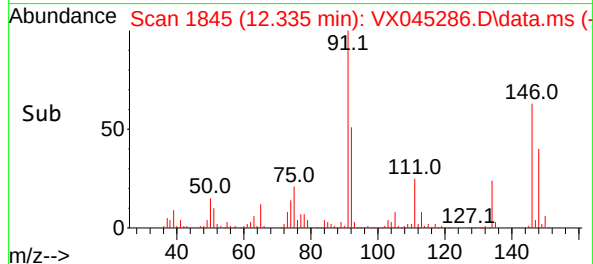
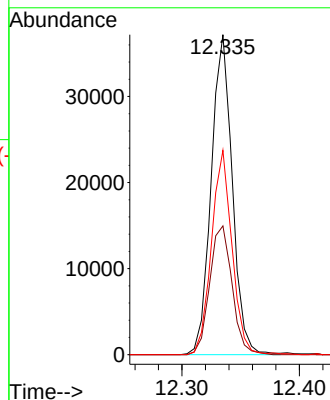
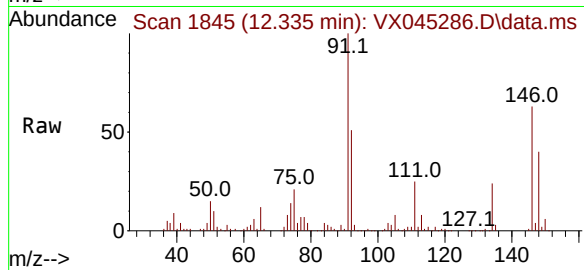




#87  
1,2-Dichlorobenzene  
Concen: 19.975 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

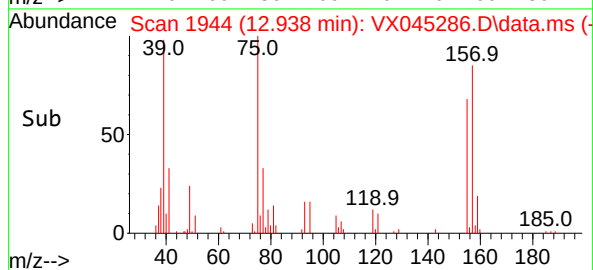
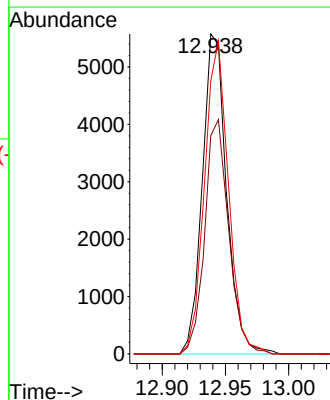
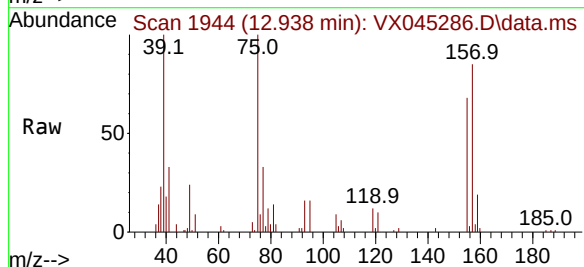
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBS01

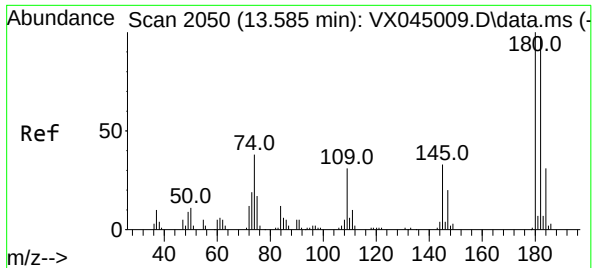
Tgt Ion:146 Resp: 46343  
Ion Ratio Lower Upper  
146 100  
111 42.6 21.7 65.1  
148 62.0 31.8 95.4



#88  
1,2-Dibromo-3-Chloropropane  
Concen: 21.262 ug/l  
RT: 12.938 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: VX045286.D  
Acq: 14 Mar 2025 10:50

Tgt Ion: 75 Resp: 7473  
Ion Ratio Lower Upper  
75 100  
155 72.2 66.2 99.4  
157 96.2 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 18.140 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

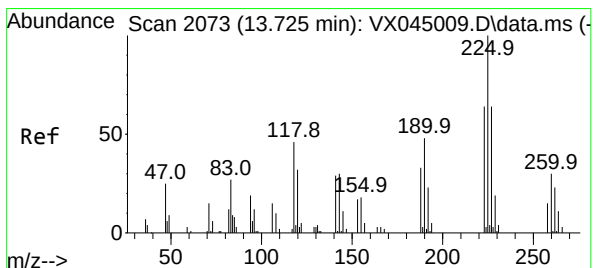
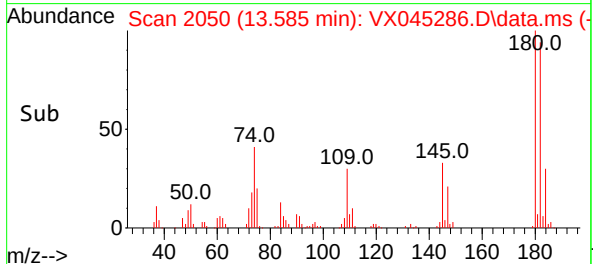
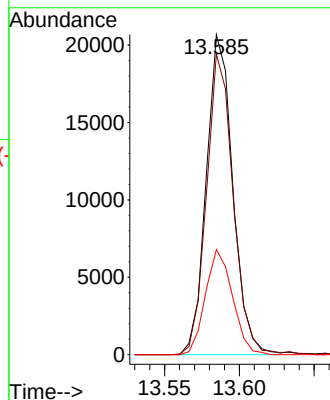
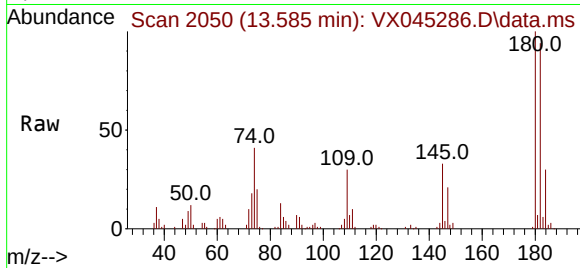
Tgt Ion:180 Resp: 25507

Ion Ratio Lower Upper

180 100

182 94.4 77.7 116.5

145 33.5 25.8 38.6



#90

Hexachlorobutadiene

Concen: 19.421 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

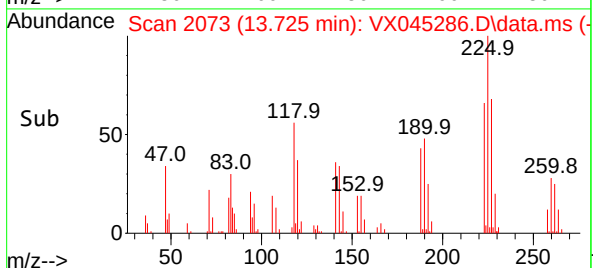
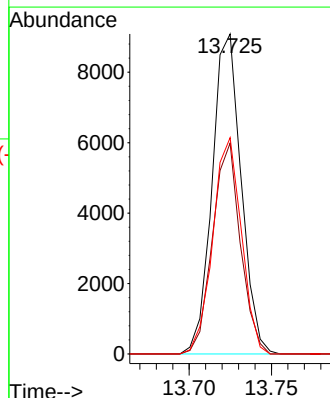
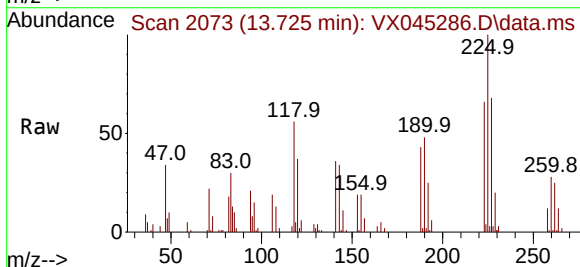
Tgt Ion:225 Resp: 11137

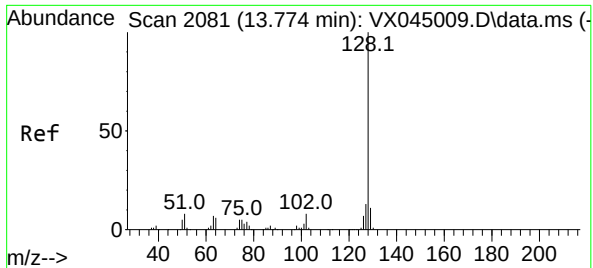
Ion Ratio Lower Upper

225 100

223 63.4 0.0 123.4

227 66.6 0.0 127.4





#91

Naphthalene

Concen: 18.832 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBS01

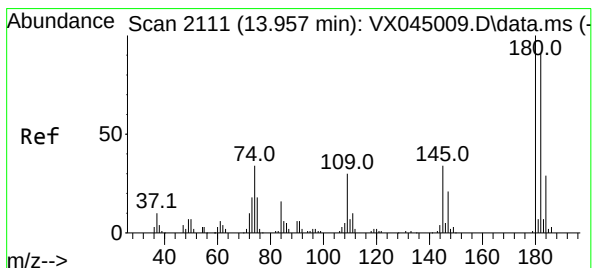
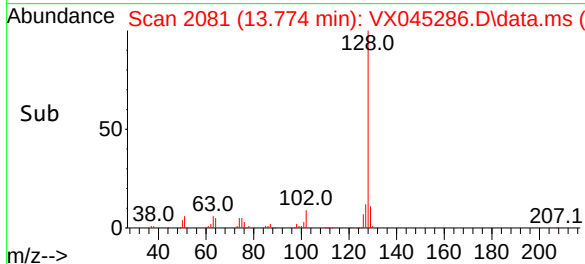
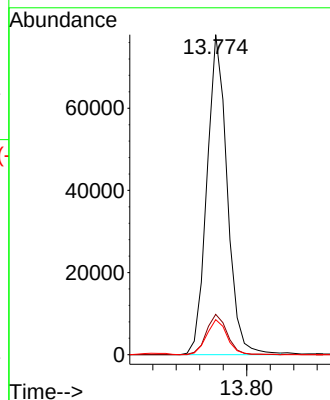
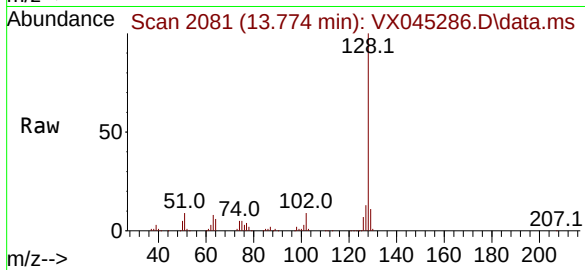
Tgt Ion:128 Resp: 93373

Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

129 11.1 8.7 13.1



#92

1,2,3-Trichlorobenzene

Concen: 18.518 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX045286.D

Acq: 14 Mar 2025 10:50

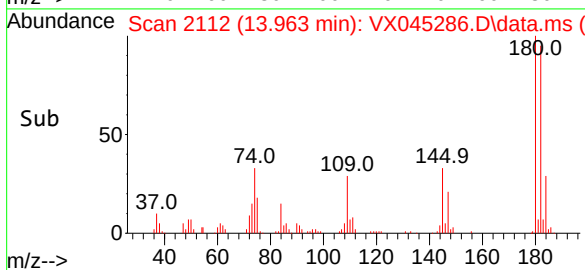
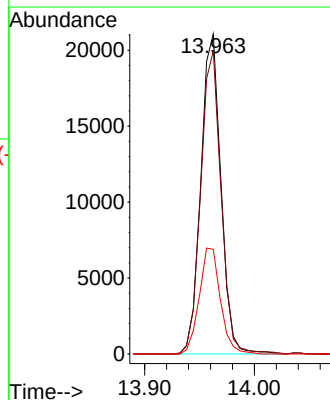
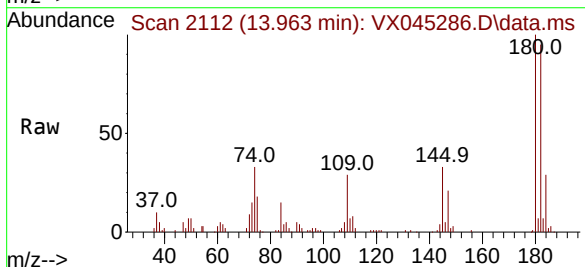
Tgt Ion:180 Resp: 26807

Ion Ratio Lower Upper

180 100

182 95.4 0.0 186.6

145 35.0 0.0 68.4



## Report of Analysis

|                    |                          |        |      |                 |          |
|--------------------|--------------------------|--------|------|-----------------|----------|
| Client:            | Tully Environmental, Inc |        |      | Date Collected: |          |
| Project:           | Transfer Station-SPDES   |        |      | Date Received:  |          |
| Client Sample ID:  | VX0314WBSD01             |        |      | SDG No.:        | Q1495    |
| Lab Sample ID:     | VX0314WBSD01             |        |      | Matrix:         | Water    |
| Analytical Method: | E624.1                   |        |      | % Solid:        | 0        |
| Sample Wt/Vol:     | 5                        | Units: | mL   | Final Vol:      | 5000 uL  |
| Soil Aliquot Vol:  |                          |        | uL   | Test:           | VOC-BTEX |
| GC Column:         | DB-624UI                 | ID :   | 0.18 | Level :         | LOW      |
| Prep Method :      |                          |        |      |                 |          |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX045293.D        | 1         |           | 03/14/25 15:22 | VX031425      |

| CAS Number         | Parameter             | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|--------------------|-----------------------|-------|-----------|----------|------------|---------|
| TARGETS            |                       |       |           |          |            |         |
| 71-43-2            | Benzene               | 19.4  |           | 0.45     | 5.00       | ug/L    |
| 108-88-3           | Toluene               | 18.7  |           | 0.46     | 5.00       | ug/L    |
| 100-41-4           | Ethyl Benzene         | 18.6  |           | 0.56     | 5.00       | ug/L    |
| 179601-23-1        | m/p-Xylenes           | 37.9  |           | 1.30     | 10.0       | ug/L    |
| 95-47-6            | o-Xylene              | 18.4  |           | 0.67     | 5.00       | ug/L    |
| SURROGATES         |                       |       |           |          |            |         |
| 17060-07-0         | 1,2-Dichloroethane-d4 | 31.5  |           | 91 - 110 | 105%       | SPK: 30 |
| 2037-26-5          | Toluene-d8            | 29.8  |           | 91 - 112 | 99%        | SPK: 30 |
| 460-00-4           | 4-Bromofluorobenzene  | 30.7  |           | 63 - 112 | 102%       | SPK: 30 |
| INTERNAL STANDARDS |                       |       |           |          |            |         |
| 74-97-5            | Bromochloromethane    | 15500 | 4.885     |          |            |         |
| 540-36-3           | 1,4-Difluorobenzene   | 80800 | 6.751     |          |            |         |
| 3114-55-4          | Chlorobenzene-d5      | 76900 | 10.049    |          |            |         |

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\_X\Data\VX031425\  
 Data File : VX045293.D  
 Acq On : 14 Mar 2025 15:22  
 Operator : JC/MD  
 Sample : VX0314WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBSD01

Quant Time: Mar 15 03:59:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.885          | 128  | 15546               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 80769               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 76870               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952          | 65   | 47556               | 31.496  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 105.000% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 44173               | 30.744  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 102.467% |         |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 126647              | 29.781  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.267%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 24170               | 18.443  | ug/l   | 98       |
| 3) Chloromethane             | 1.301          | 50   | 26066               | 16.606  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 23588               | 15.574  | ug/l   | 99       |
| 5) Bromomethane              | 1.593          | 94   | 10755               | 20.399  | ug/l   | 99       |
| 6) Chloroethane              | 1.666          | 64   | 12629               | 15.395  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 35817               | 17.595  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.130          | 74   | 11933               | 15.493  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 22953               | 18.984  | ug/l   | 97       |
| 10) 1,1-Dichloroethene       | 2.306          | 96   | 21585               | 18.278  | ug/l   | 86       |
| 11) Methyl Iodide            | 2.441          | 142  | 25552               | 19.117  | ug/l   | 98       |
| 12) Methyl Acetate           | 2.697          | 43   | 36614               | 26.699  | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 27711               | 100.812 | ug/l   | 99       |
| 14) Acrylonitrile            | 3.056          | 53   | 68425               | 102.150 | ug/l   | 99       |
| 15) Acetone                  | 2.380          | 58   | 20453               | 111.332 | ug/l   | 90       |
| 16) Carbon Disulfide         | 2.502          | 76   | 50534m              | 15.086  | ug/l   |          |
| 17) Allyl chloride           | 2.654          | 41   | 38710               | 17.525  | ug/l   | 94       |
| 18) Methylene Chloride       | 2.782          | 84   | 24553               | 18.485  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 20842               | 17.444  | ug/l   | 96       |
| 20) Diisopropyl ether        | 3.757          | 45   | 76188               | 17.950  | ug/l   | 88       |
| 21) 1,1-Dichloroethane       | 3.605          | 63   | 44091               | 18.678  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.477          | 96   | 26300               | 18.369  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.971          | 59   | 20144               | 86.142  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 70231               | 18.221  | ug/l   | 96       |
| 25) Chloroform               | 5.080          | 83   | 43989               | 19.293  | ug/l   | 98       |
| 26) Cyclohexane              | 5.458          | 56   | 38170               | 17.518  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.678          | 75   | 28106               | 18.917  | ug/l   | 100      |
| 30) 2-Butanone               | 4.550          | 43   | 96464               | 112.407 | ug/l   | 98       |
| 31) 2,2-Dichloropropane      | 4.465          | 77   | 28902               | 17.203  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.367          | 97   | 34733               | 19.294  | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 5.672          | 117  | 29661               | 19.523  | ug/l   | 97       |
| 34) Benzene                  | 6.025          | 78   | 90227               | 19.365  | ug/l   | 97       |
| 35) Methacrylonitrile        | 4.916          | 41   | 19399               | 21.124  | ug/l   | 95       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 34119               | 21.389  | ug/l   | 96       |
| 37) Trichloroethene          | 7.117          | 130  | 20606               | 18.904  | ug/l   | 96       |
| 38) Methylcyclohexane        | 7.373          | 83   | 37543               | 18.819  | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 7.427          | 63   | 22700               | 19.597  | ug/l   | 98       |
| 40) Dibromomethane           | 7.580          | 93   | 17043               | 20.503  | ug/l   | 96       |
| 41) Bromodichloromethane     | 7.818          | 83   | 33099               | 20.034  | ug/l   | 98       |
| 42) Vinyl Acetate            | 3.715          | 43   | 312048              | 93.704  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031425\  
 Data File : VX045293.D  
 Acq On : 14 Mar 2025 15:22  
 Operator : JC/MD  
 Sample : VX0314WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBSD01

Quant Time: Mar 15 03:59:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 32219    | 20.020  | ug/l  | 95       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 52666    | 19.883  | ug/l  | 97       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 9428     | 342.398 | ug/l  | 96       |
| 46) Methyl methacrylate       | 7.690  | 41   | 27400    | 21.096  | ug/l  | 95       |
| 47) n-amyl Acetate            | 10.841 | 43   | 44905    | 19.537  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 27508    | 17.274  | ug/l  | 92       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 32980    | 18.295  | ug/l  | 94       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 21205    | 19.557  | ug/l  | 96       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 33498    | 19.644  | ug/l  | 98       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 38391    | 20.208  | ug/l  | 100      |
| 53) Dibromochloromethane      | 9.519  | 129  | 23199    | 19.346  | ug/l  | 97       |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 22351    | 20.301  | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 88703    | 101.295 | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 14421    | 19.191  | ug/l  | 96       |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 183409   | 104.887 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 137679   | 108.930 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.269  | 164  | 17641    | 18.637  | ug/l  | 92       |
| 62) Toluene                   | 8.714  | 91   | 95024    | 18.661  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.073 | 112  | 58366    | 18.497  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 19291    | 18.528  | ug/l  | 99       |
| 66) Ethyl Benzene             | 10.189 | 91   | 103839   | 18.626  | ug/l  | 96       |
| 67) m/p-Xylenes               | 10.299 | 106  | 78640    | 37.860  | ug/l  | 99       |
| 68) o-Xylene                  | 10.640 | 106  | 37584    | 18.442  | ug/l  | 96       |
| 69) Styrene                   | 10.652 | 104  | 64261    | 18.879  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.957 | 105  | 101919   | 19.379  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 35862    | 20.736  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 29223m   | 20.544  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 23609    | 19.500  | ug/l  | 99       |
| 74) n-propylbenzene           | 11.299 | 91   | 119027   | 19.018  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 72536    | 19.171  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 84806    | 19.546  | ug/l  | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.012 | 75   | 7992     | 16.700  | ug/l  | 78       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 80945    | 19.191  | ug/l  | 97       |
| 79) tert-butylbenzene         | 11.713 | 119  | 84533    | 19.337  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 82957    | 19.087  | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.884 | 105  | 106811   | 19.468  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 85974    | 19.340  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.963 | 146  | 41657    | 18.492  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 41957    | 18.890  | ug/l  | 98       |
| 85) n-Butylbenzene            | 12.329 | 91   | 75810    | 18.675  | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 14252    | 18.178  | ug/l  | 95       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 42657    | 19.299  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 6851     | 20.460  | ug/l  | 91       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 23476    | 17.525  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 10796    | 19.762  | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 87097    | 18.439  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 24804    | 17.985  | ug/l  | 98       |

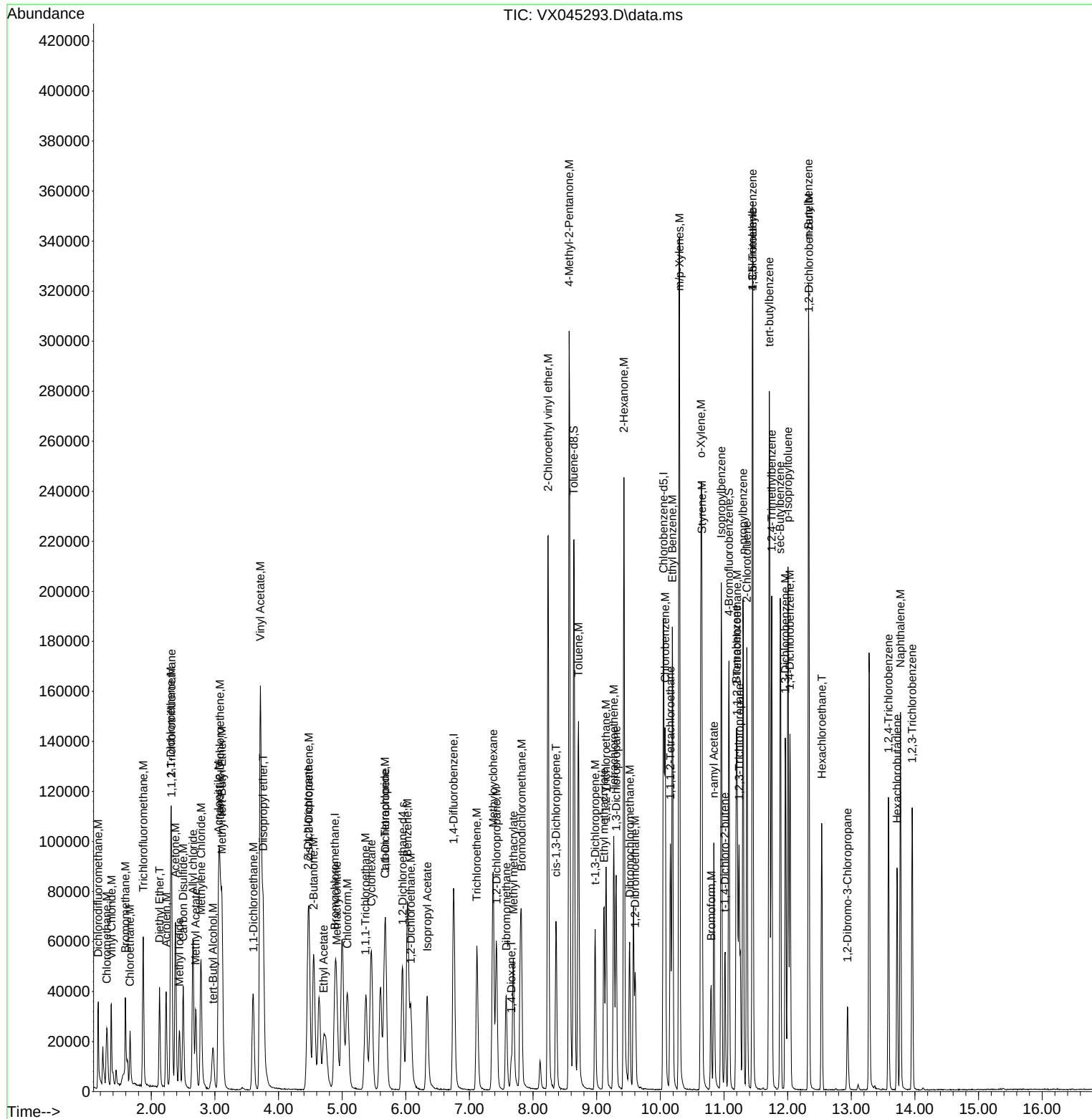
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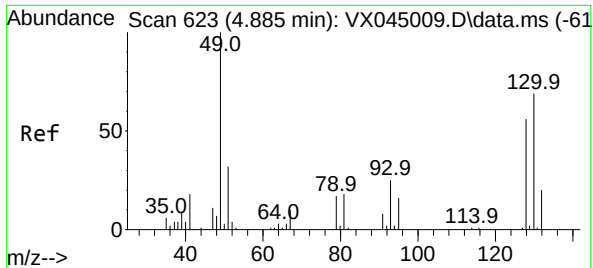


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Acq On    : 14 Mar 2025  15:22  
Operator  : JC/MD  
Sample    : VX0314WBSD01  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 10   Sample Multiplier: 1
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**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX0314WBSD01

Quant Time: Mar 15 03:59:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Feb 22 01:06:36 2025  
Response via : Initial Calibration

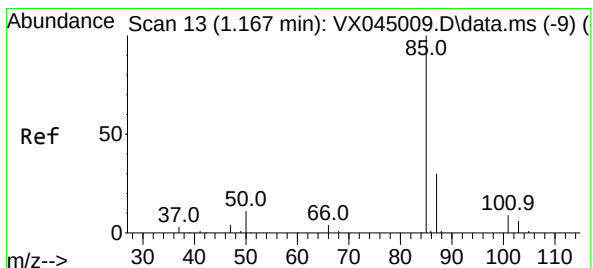
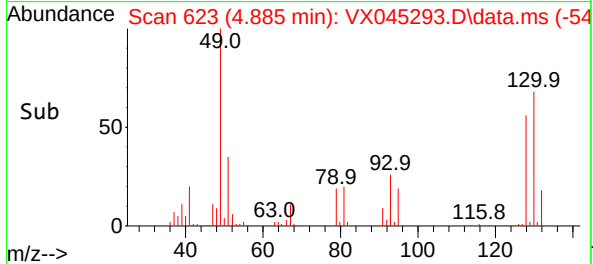
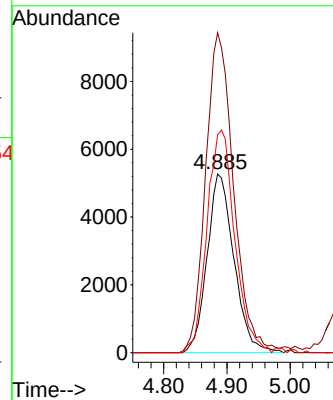
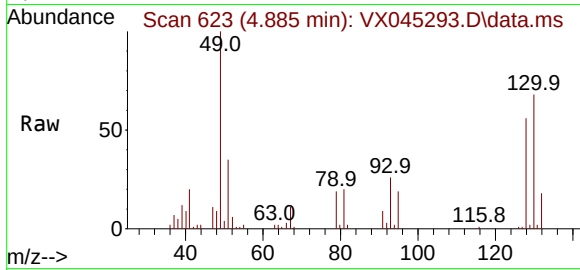




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.885 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

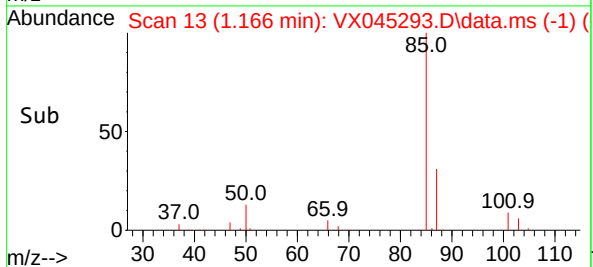
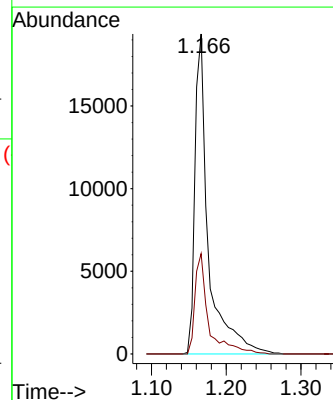
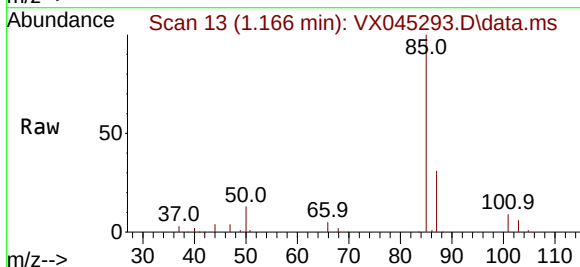
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

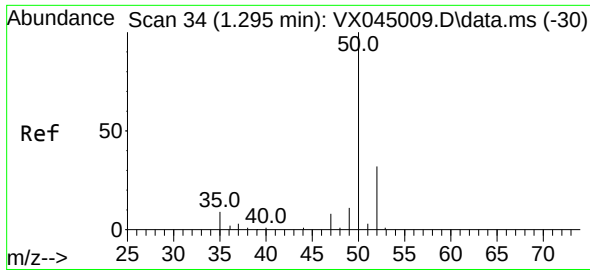
Tgt Ion:128 Resp: 15546  
Ion Ratio Lower Upper  
128 100  
49 185.4 0.0 449.7  
130 129.2 0.0 312.7



#2  
Dichlorodifluoromethane  
Concen: 18.443 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 85 Resp: 24170  
Ion Ratio Lower Upper  
85 100  
87 31.3 15.1 45.3

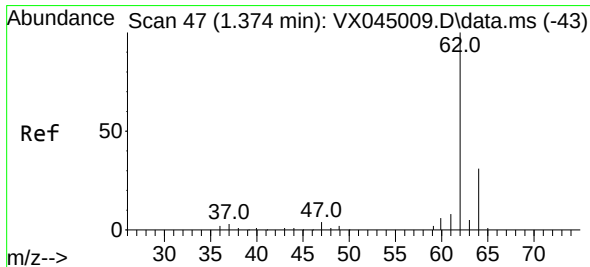
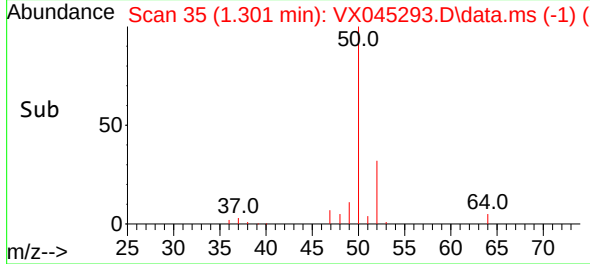
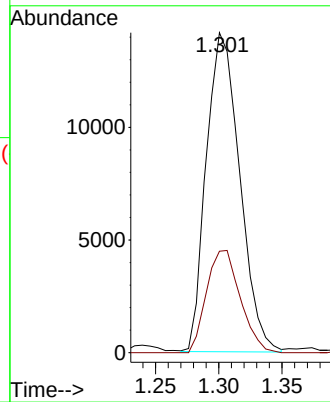
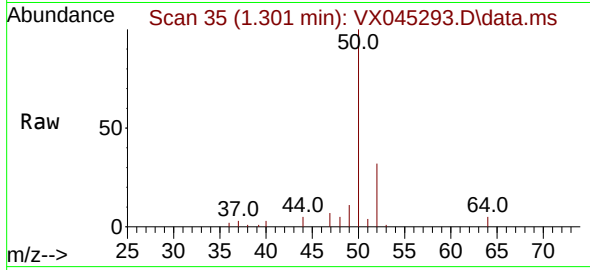




#3  
Chloromethane  
Concen: 16.606 ug/l  
RT: 1.301 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

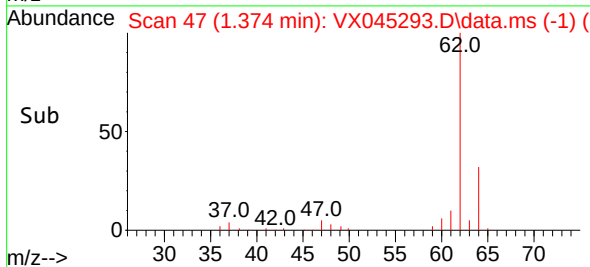
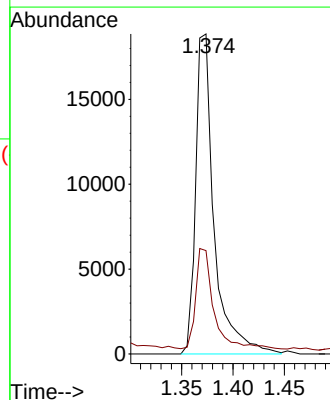
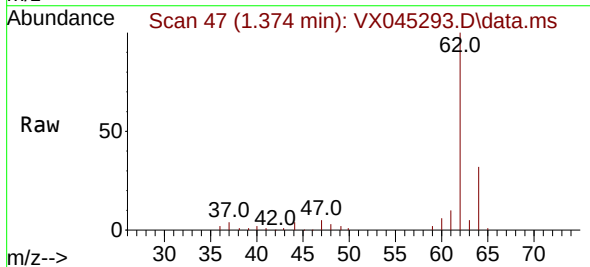
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

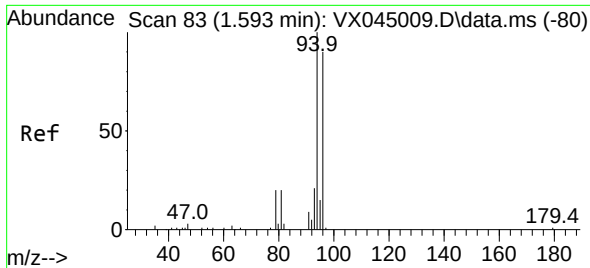
Tgt Ion: 50 Resp: 26066  
Ion Ratio Lower Upper  
50 100  
52 31.9 25.7 38.5



#4  
Vinyl Chloride  
Concen: 15.574 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 62 Resp: 23588  
Ion Ratio Lower Upper  
62 100  
64 30.7 25.1 37.7

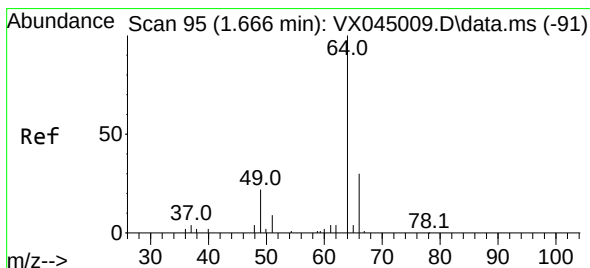
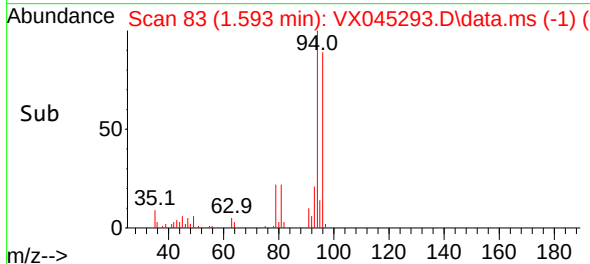
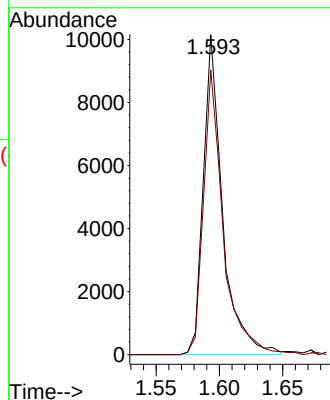
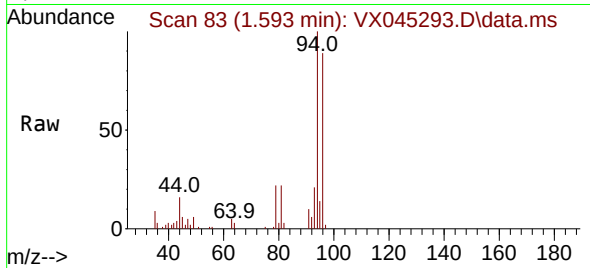




#5  
Bromomethane  
Concen: 20.399 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

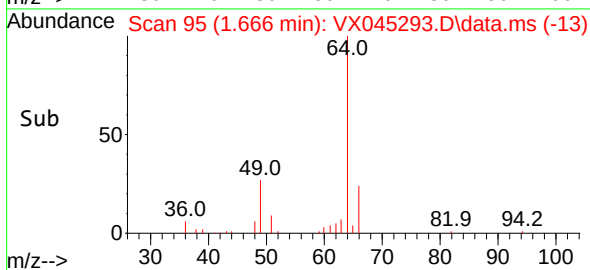
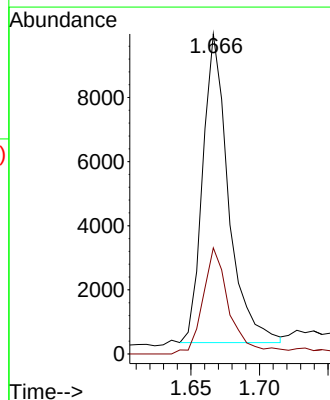
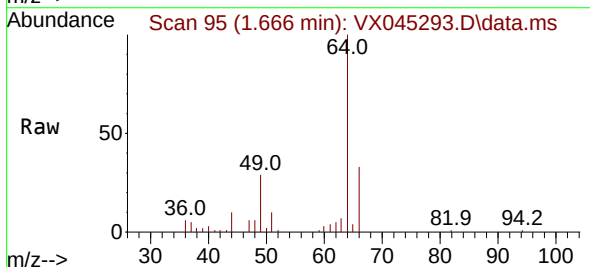
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

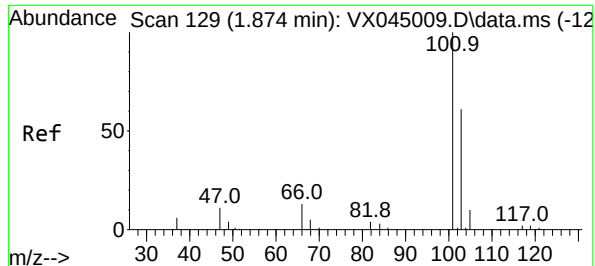
Tgt Ion: 94 Resp: 10755  
Ion Ratio Lower Upper  
94 100  
96 89.0 72.2 108.4



#6  
Chloroethane  
Concen: 15.395 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 64 Resp: 12629  
Ion Ratio Lower Upper  
64 100  
66 33.1 23.7 35.5

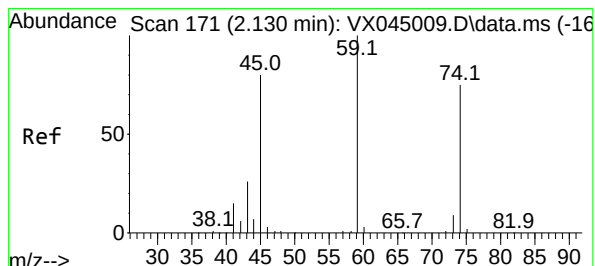
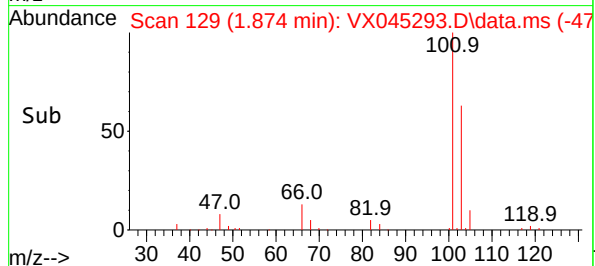
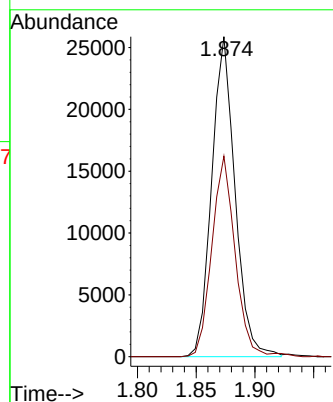
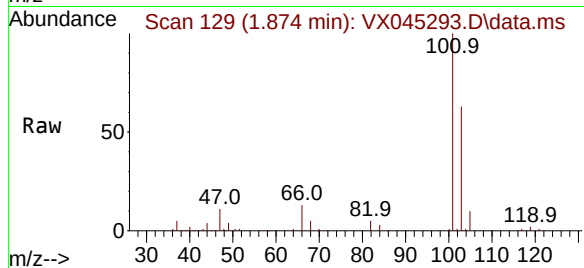




#7  
Trichlorofluoromethane  
Concen: 17.595 ug/l  
RT: 1.874 min Scan# 129  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

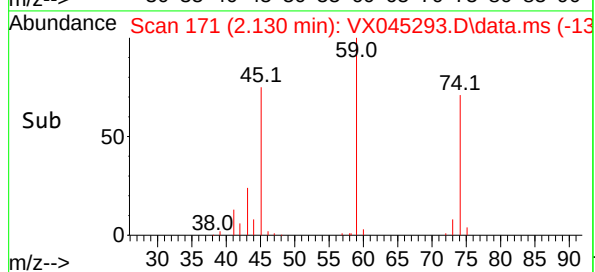
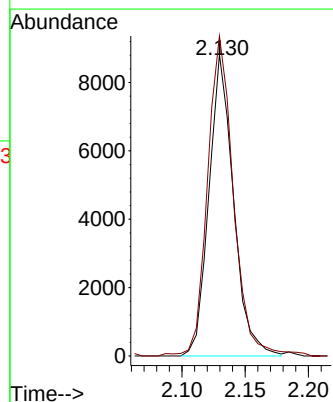
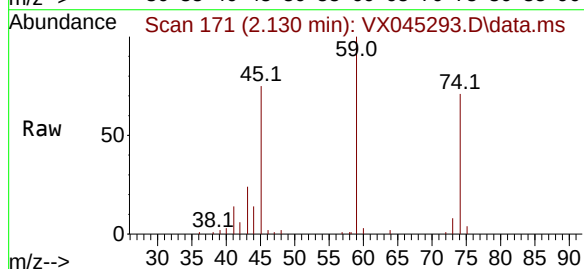
Instrument :  
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ClientSampleId :  
VX0314WBSD01

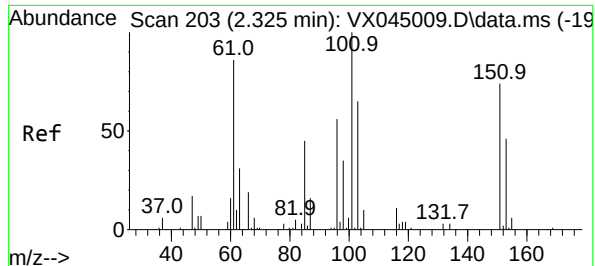
Tgt Ion:101 Resp: 35817  
Ion Ratio Lower Upper  
101 100  
103 62.7 48.8 73.2



#8  
Diethyl Ether  
Concen: 15.493 ug/l  
RT: 2.130 min Scan# 171  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 74 Resp: 11933  
Ion Ratio Lower Upper  
74 100  
45 111.6 20.8 186.8

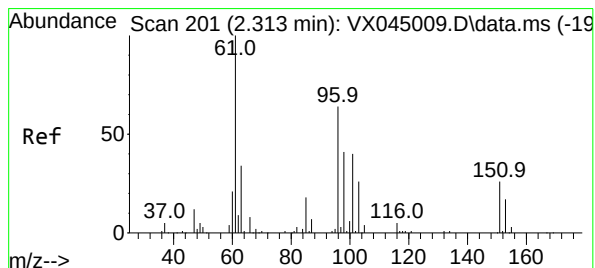
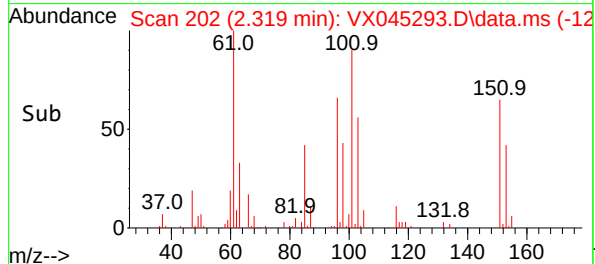
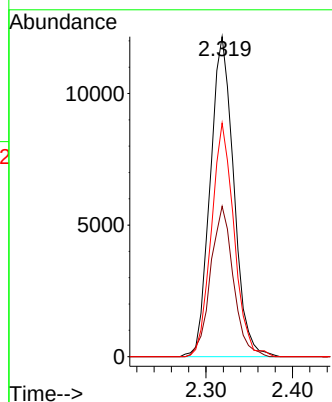
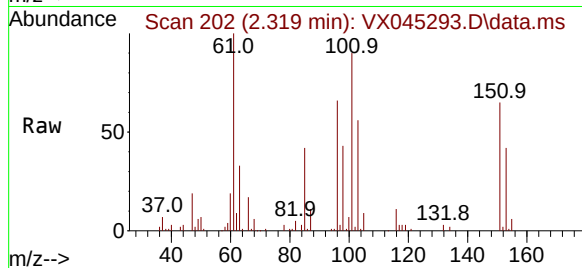




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.984 ug/l  
RT: 2.319 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

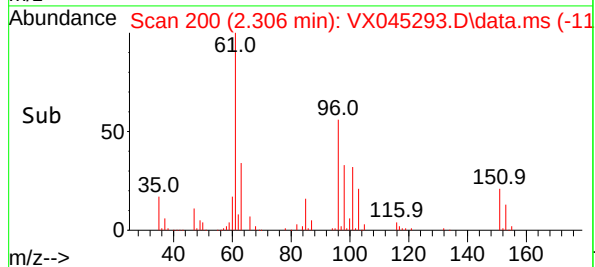
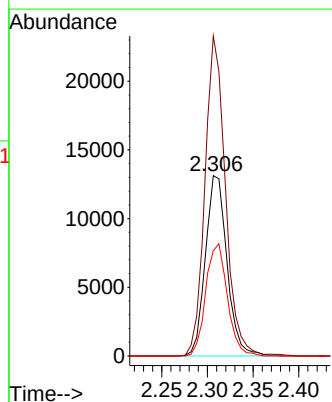
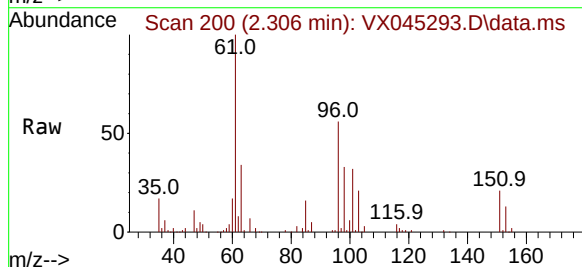
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

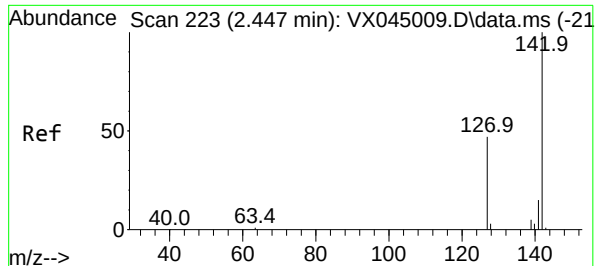
Tgt Ion:101 Resp: 22953  
Ion Ratio Lower Upper  
101 100  
85 45.6 0.0 90.6  
151 70.1 0.0 147.6



#10  
1,1-Dichloroethene  
Concen: 18.278 ug/l  
RT: 2.306 min Scan# 200  
Delta R.T. -0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 96 Resp: 21585  
Ion Ratio Lower Upper  
96 100  
61 177.5 124.2 186.2  
98 58.3 51.1 76.7





#11

Methyl Iodide

Concen: 19.117 ug/l

RT: 2.441 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

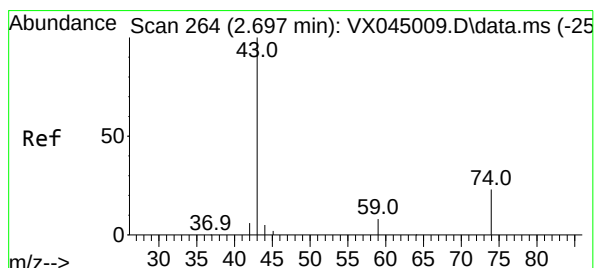
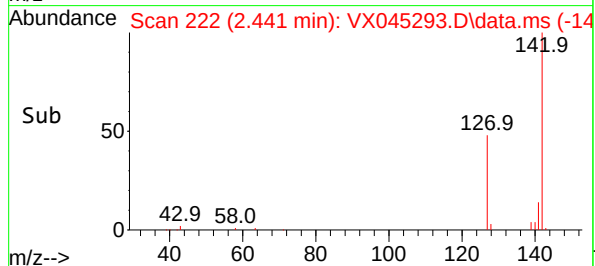
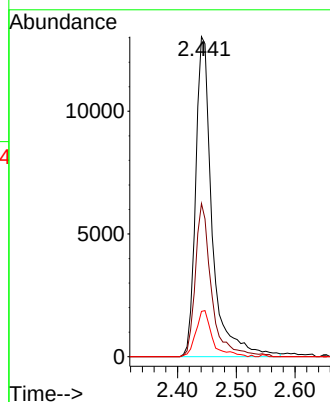
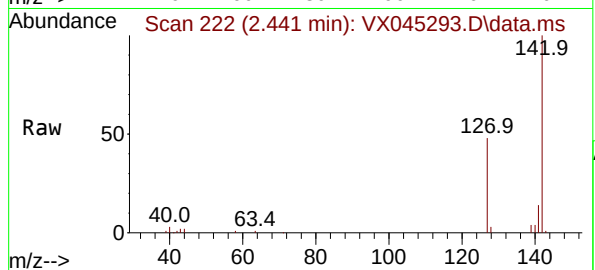
Tgt Ion:142 Resp: 25552

Ion Ratio Lower Upper

142 100

127 48.1 23.3 69.9

141 14.2 7.5 22.6



#12

Methyl Acetate

Concen: 26.699 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX045293.D

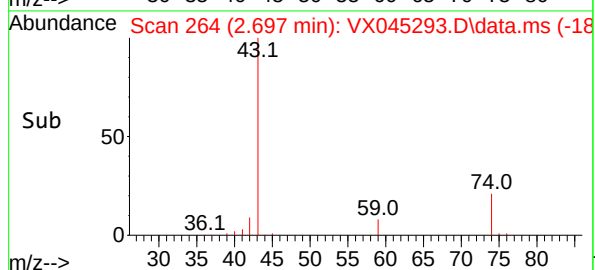
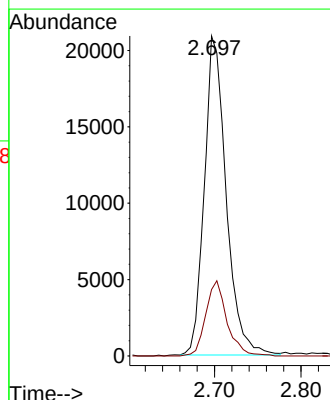
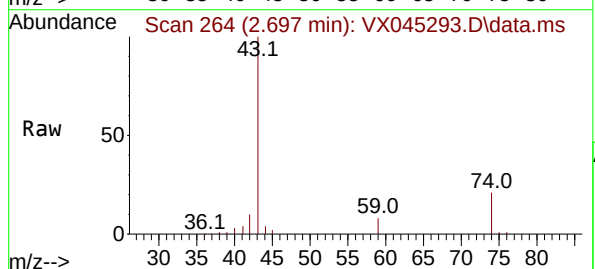
Acq: 14 Mar 2025 15:22

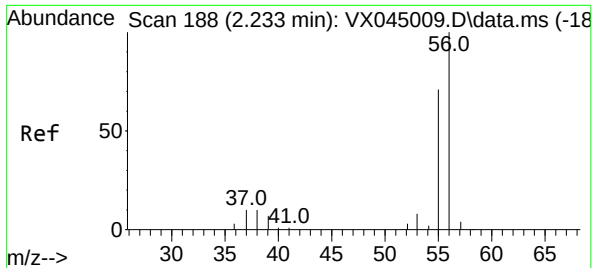
Tgt Ion: 43 Resp: 36614

Ion Ratio Lower Upper

43 100

74 20.9 17.9 26.9





#13

Acrolein

Concen: 100.812 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

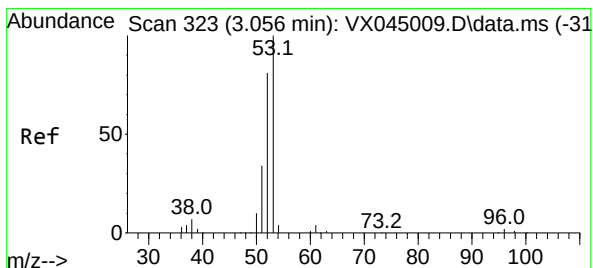
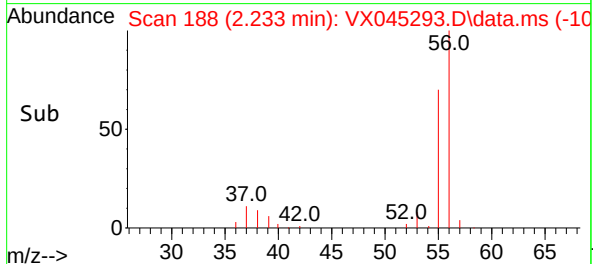
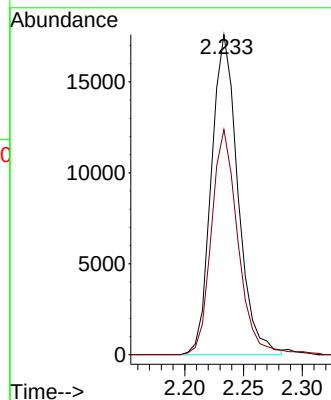
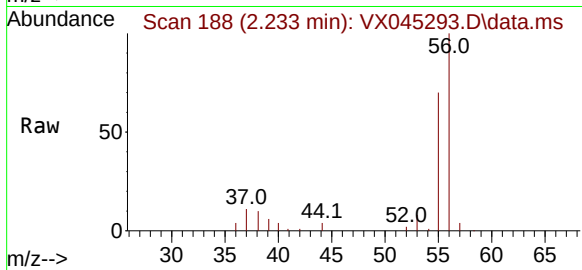
VX0314WBSD01

Tgt Ion: 56 Resp: 27711

Ion Ratio Lower Upper

56 100

55 70.0 55.4 83.2



#14

Acrylonitrile

Concen: 102.150 ug/l

RT: 3.056 min Scan# 323

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

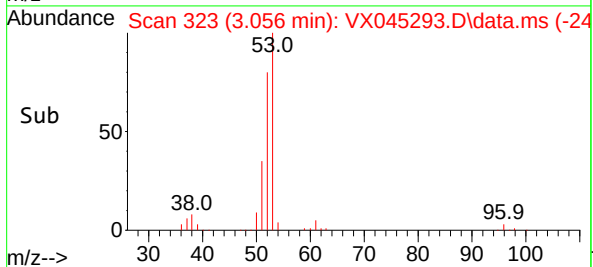
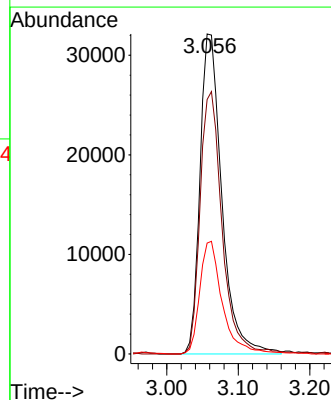
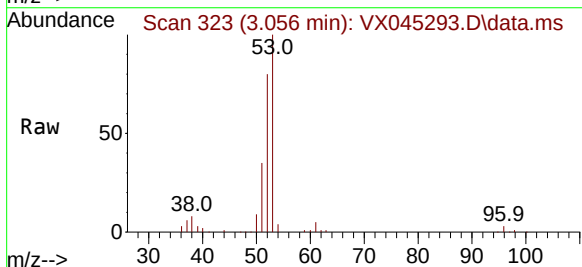
Tgt Ion: 53 Resp: 68425

Ion Ratio Lower Upper

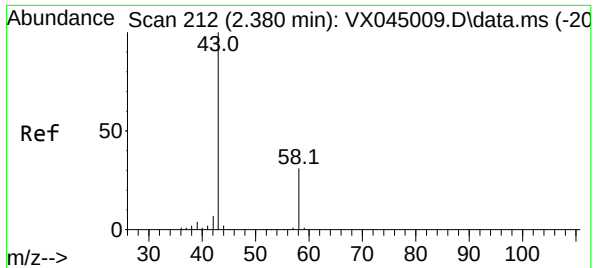
53 100

52 81.5 40.9 122.8

51 36.5 18.0 54.0



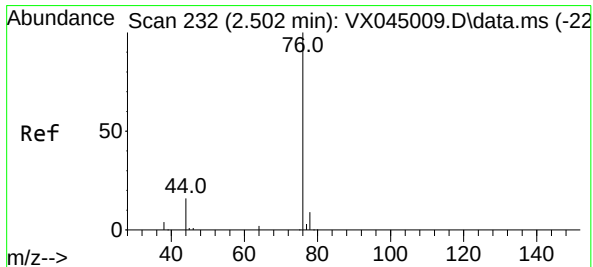
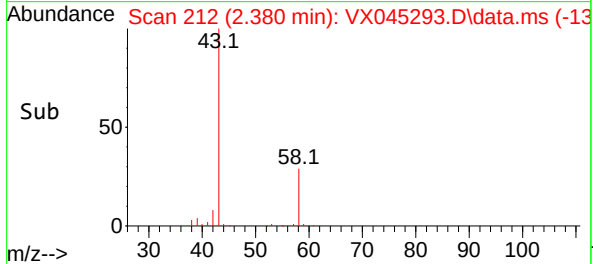
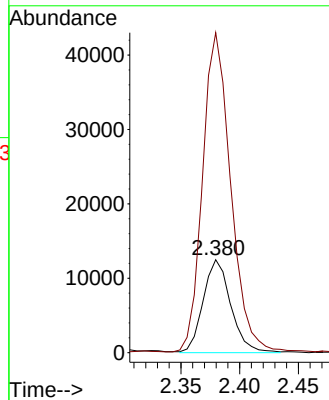
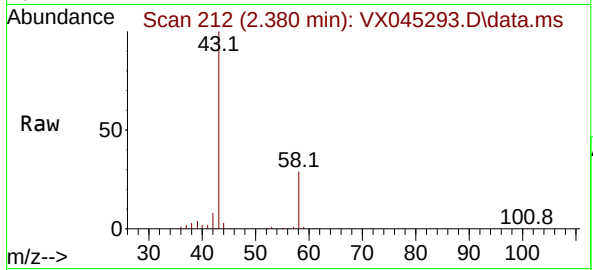




#15  
Acetone  
Concen: 111.332 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

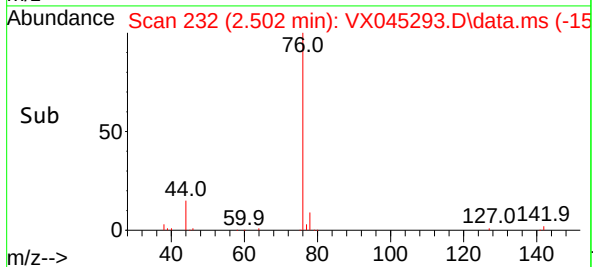
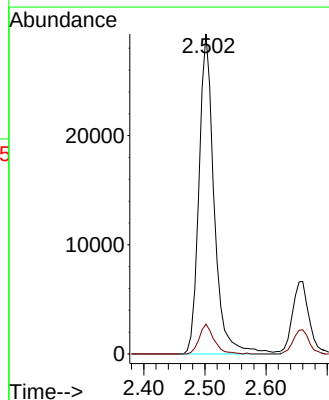
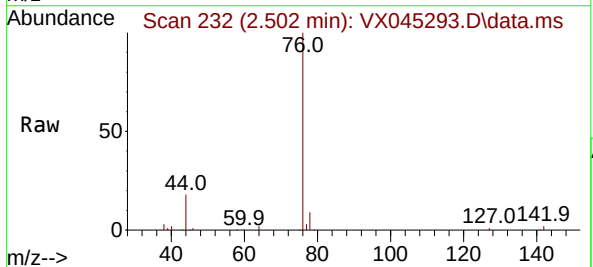
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

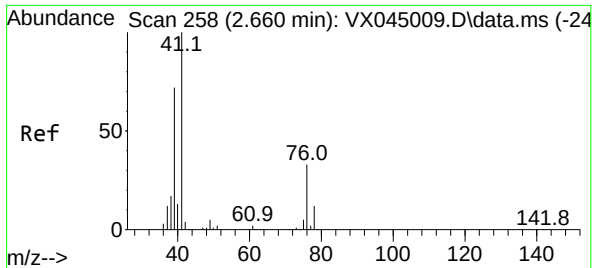
Tgt Ion: 58 Resp: 20453  
Ion Ratio Lower Upper  
58 100  
43 344.7 258.6 388.0



#16  
Carbon Disulfide  
Concen: 15.086 ug/l m  
RT: 2.502 min Scan# 232  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 76 Resp: 50534  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.3 10.9





#17

Allyl chloride

Concen: 17.525 ug/l

RT: 2.654 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

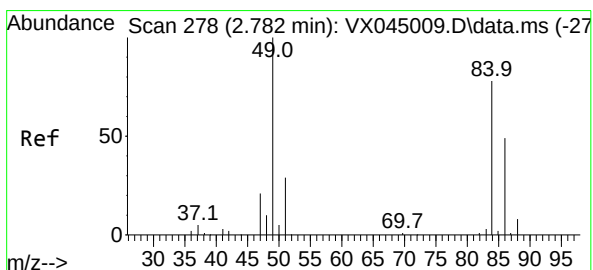
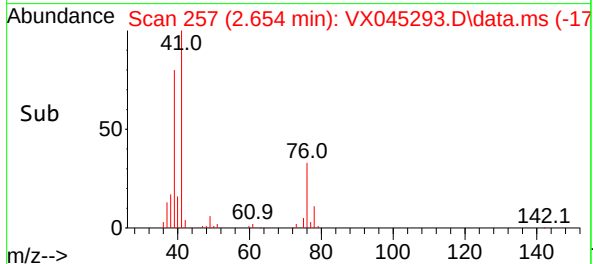
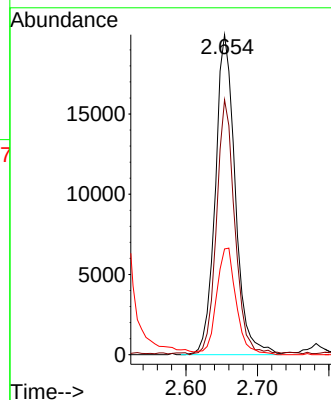
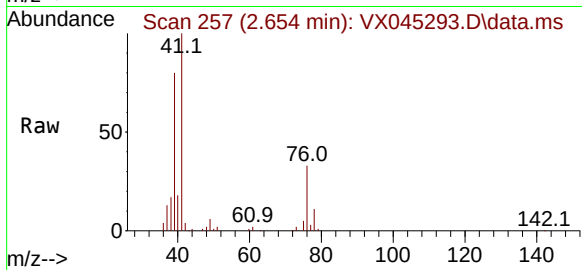
Tgt Ion: 41 Resp: 38710

Ion Ratio Lower Upper

41 100

39 79.2 36.2 108.6

76 33.1 17.2 51.5



#18

Methylene Chloride

Concen: 18.485 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Tgt Ion: 84 Resp: 24553

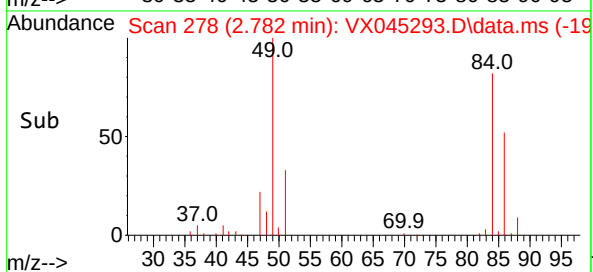
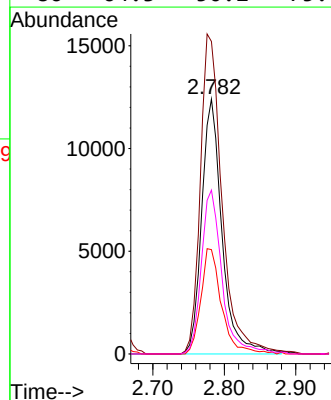
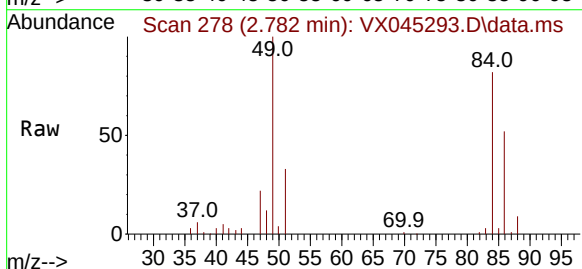
Ion Ratio Lower Upper

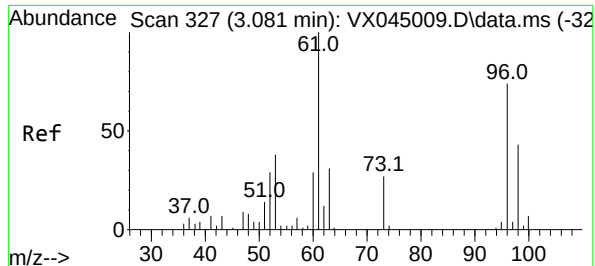
84 100

49 122.6 102.8 154.2

51 40.9 30.1 45.1

86 64.3 50.2 75.4





#19

trans-1,2-Dichloroethene

Concen: 17.444 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

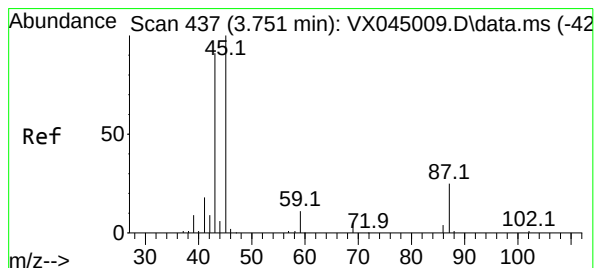
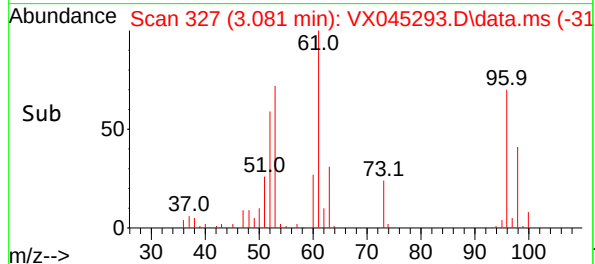
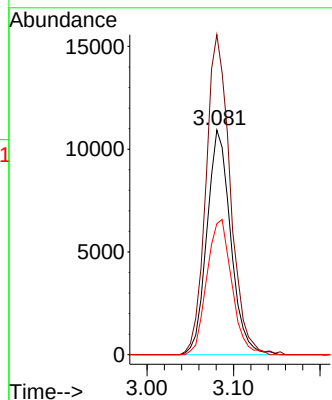
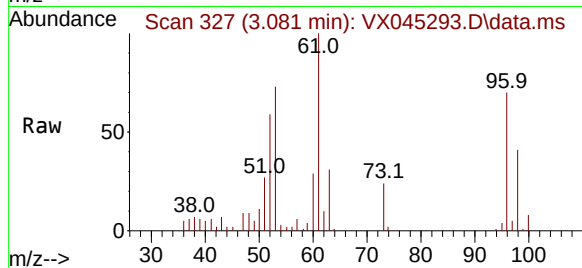
Tgt Ion: 96 Resp: 20842

Ion Ratio Lower Upper

96 100

61 142.5 108.6 163.0

98 58.3 46.5 69.7



#20

Diisopropyl ether

Concen: 17.950 ug/l

RT: 3.757 min Scan# 438

Delta R.T. 0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Tgt Ion: 45 Resp: 76188

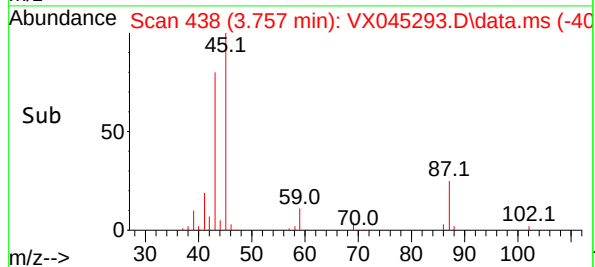
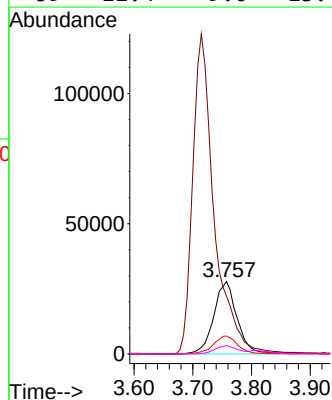
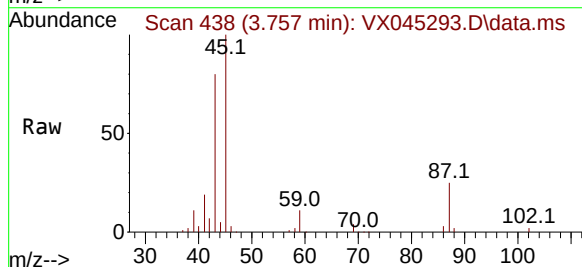
Ion Ratio Lower Upper

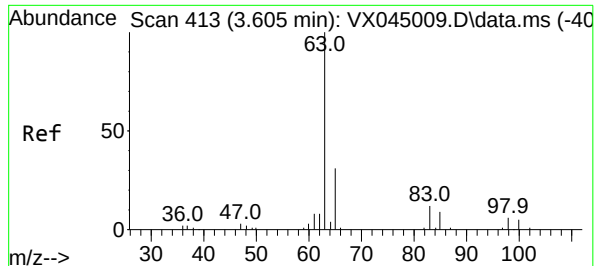
45 100

43 76.9 74.4 111.6

87 24.8 19.8 29.8

59 11.4 9.0 13.4





#21

1,1-Dichloroethane

Concen: 18.678 ug/l

RT: 3.605 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

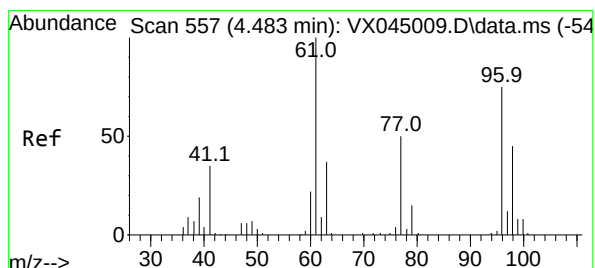
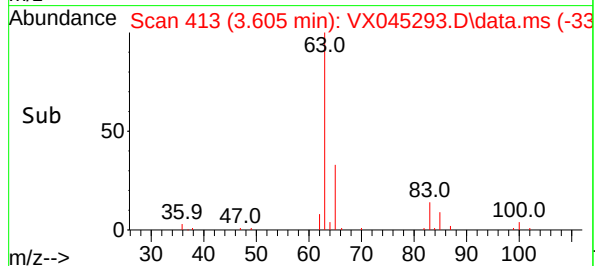
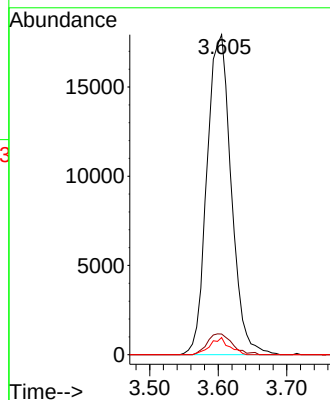
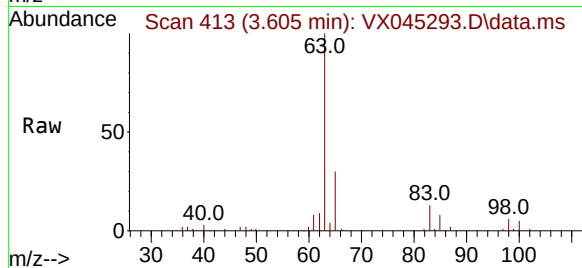
Tgt Ion: 63 Resp: 44091

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 5.4 2.4 7.1



#22

cis-1,2-Dichloroethene

Concen: 18.369 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

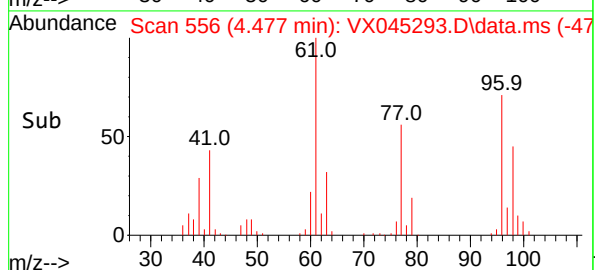
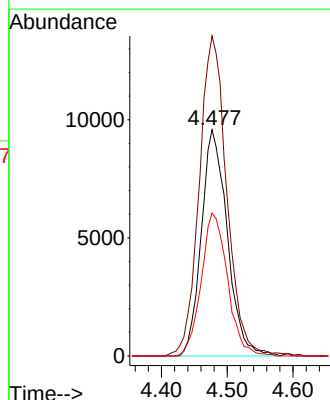
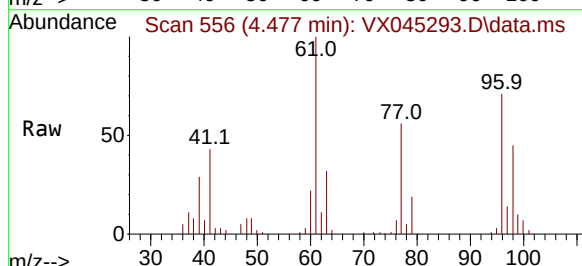
Tgt Ion: 96 Resp: 26300

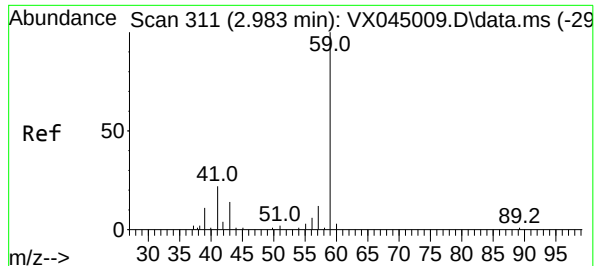
Ion Ratio Lower Upper

96 100

61 149.4 118.9 178.3

98 63.9 50.7 76.1





#23

tert-Butyl Alcohol

Concen: 86.142 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.012 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

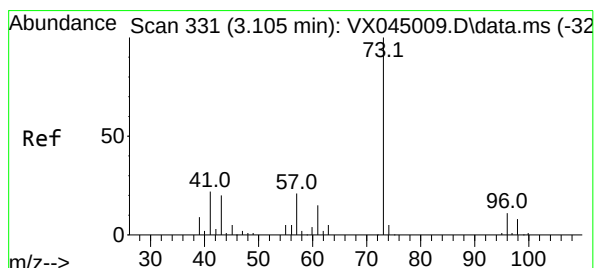
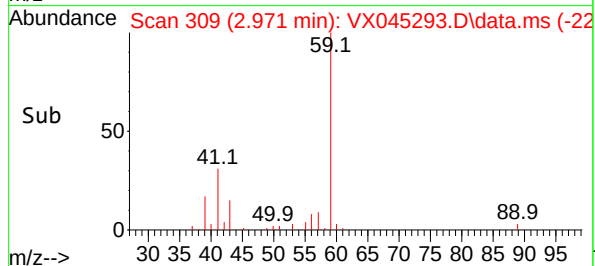
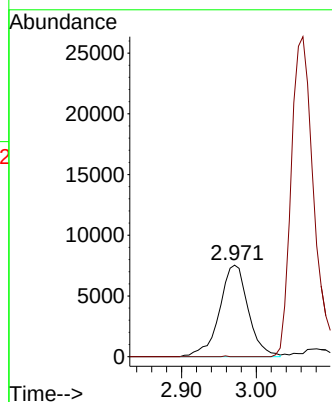
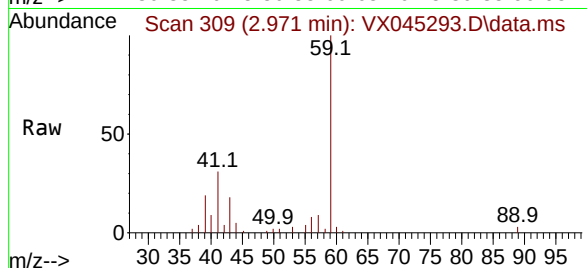
VX0314WBSD01

Tgt Ion: 59 Resp: 20144

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#24

Methyl tert-Butyl Ether

Concen: 18.221 ug/l

RT: 3.111 min Scan# 332

Delta R.T. 0.006 min

Lab File: VX045293.D

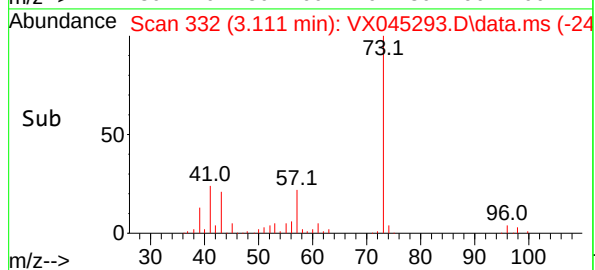
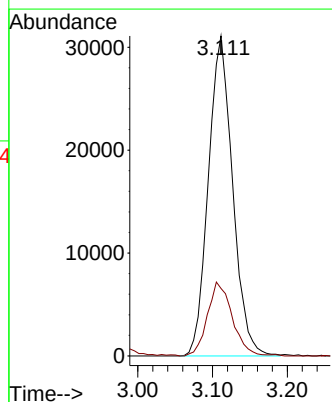
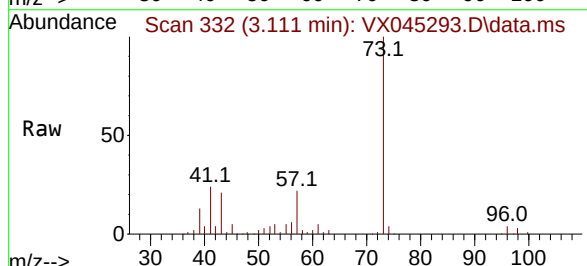
Acq: 14 Mar 2025 15:22

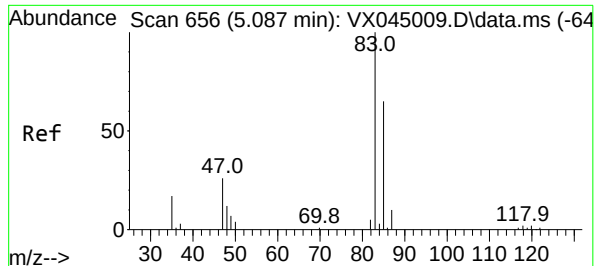
Tgt Ion: 73 Resp: 70231

Ion Ratio Lower Upper

73 100

43 23.5 17.4 26.0





#25

Chloroform

Concen: 19.293 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

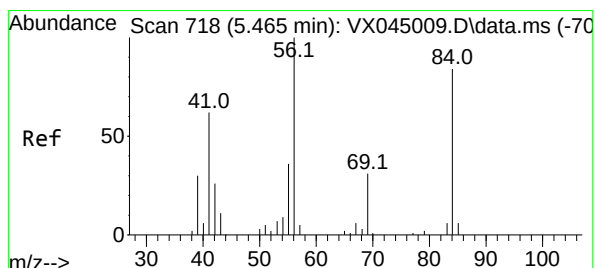
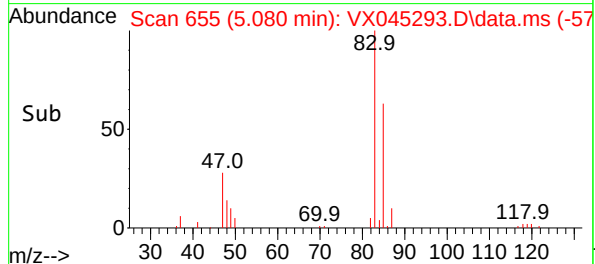
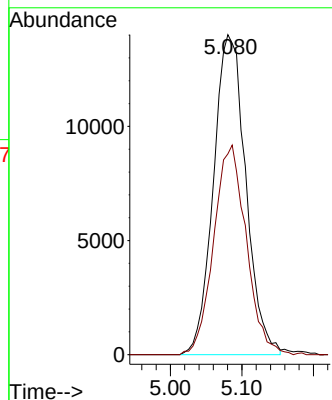
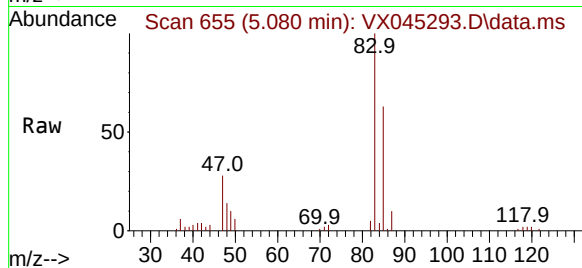
VX0314WBSD01

Tgt Ion: 83 Resp: 43989

Ion Ratio Lower Upper

83 100

85 62.7 51.7 77.5



#26

Cyclohexane

Concen: 17.518 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

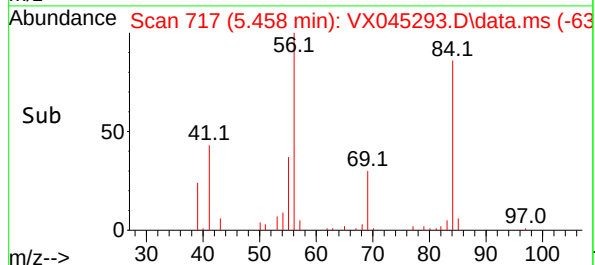
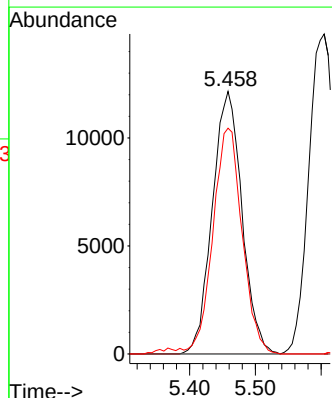
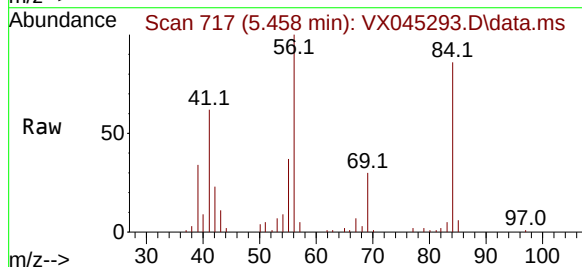
Tgt Ion: 56 Resp: 38170

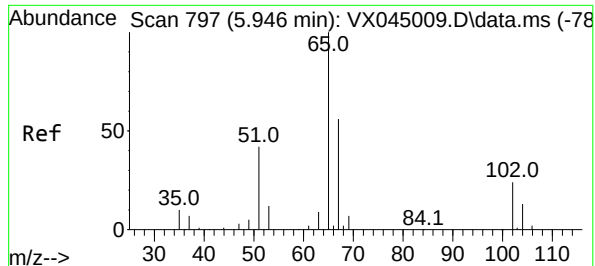
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 84.5 67.1 100.7





#27

1,2-Dichloroethane-d4

Concen: 31.496 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

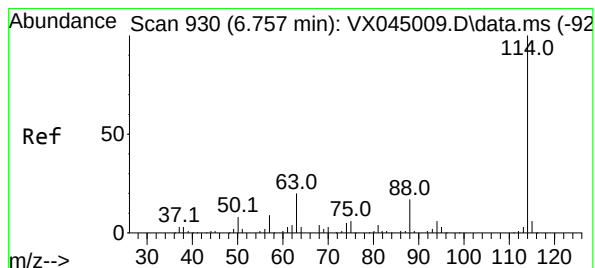
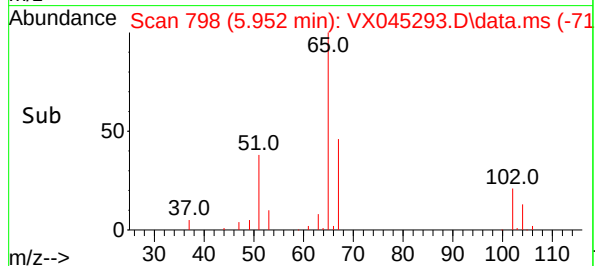
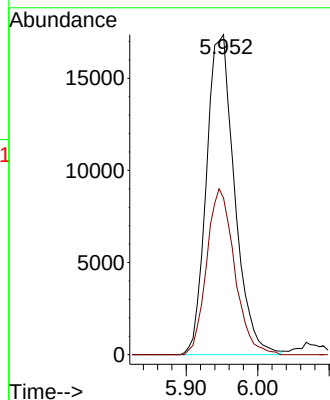
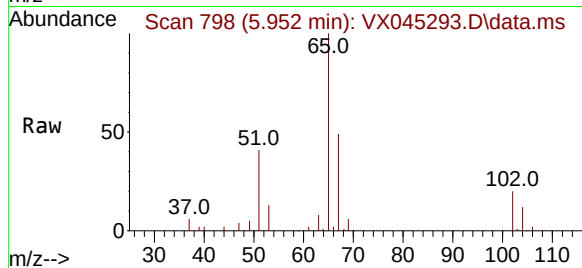
VX0314WBSD01

Tgt Ion: 65 Resp: 47556

Ion Ratio Lower Upper

65 100

67 51.3 42.6 64.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

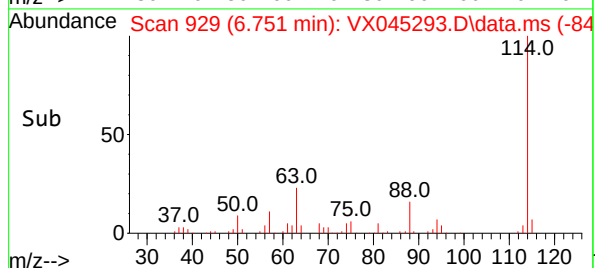
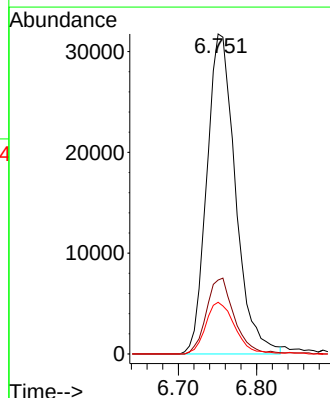
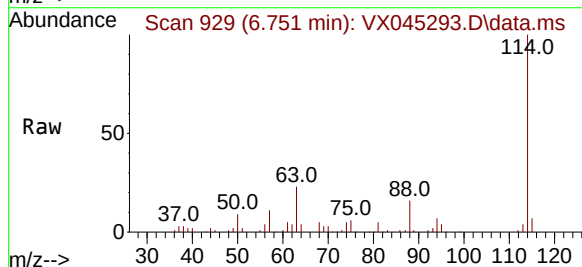
Tgt Ion: 114 Resp: 80769

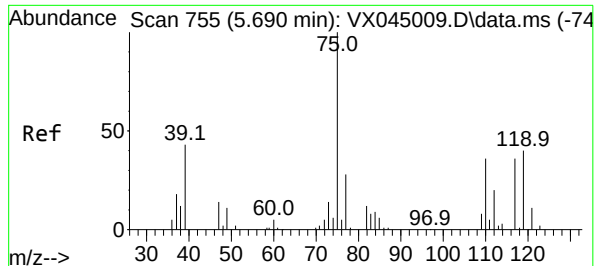
Ion Ratio Lower Upper

114 100

63 22.7 16.8 25.2

88 16.4 12.7 19.1





#29

1,1-Dichloropropene

Concen: 18.917 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.012 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

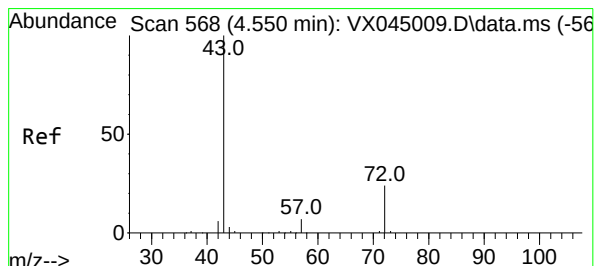
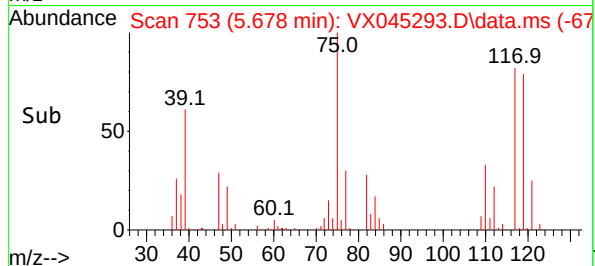
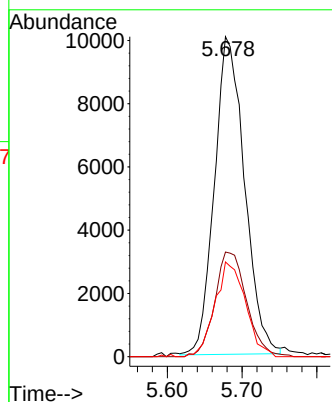
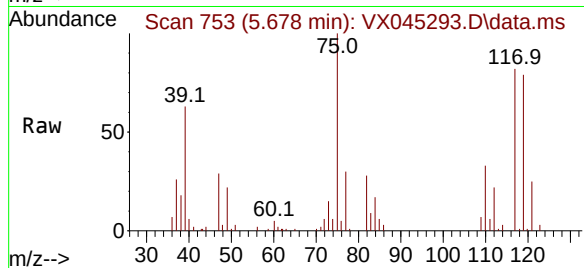
Tgt Ion: 75 Resp: 28106

Ion Ratio Lower Upper

75 100

110 34.8 0.0 69.2

77 30.3 0.0 61.0



#30

2-Butanone

Concen: 112.407 ug/l

RT: 4.550 min Scan# 568

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

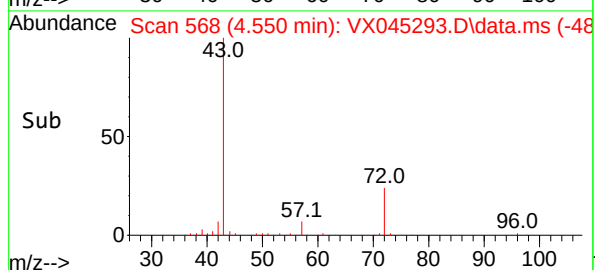
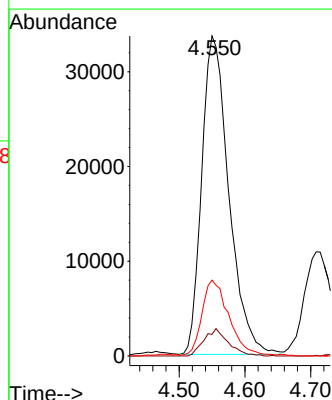
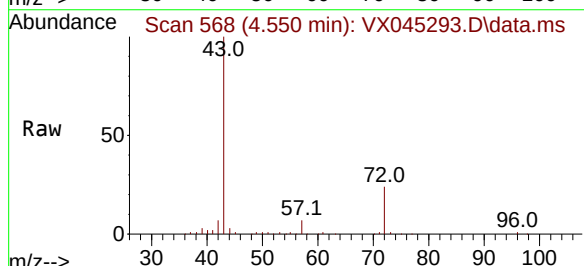
Tgt Ion: 43 Resp: 96464

Ion Ratio Lower Upper

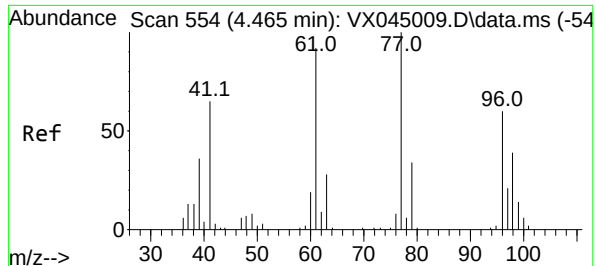
43 100

57 7.7 6.2 9.2

72 23.7 20.2 30.2



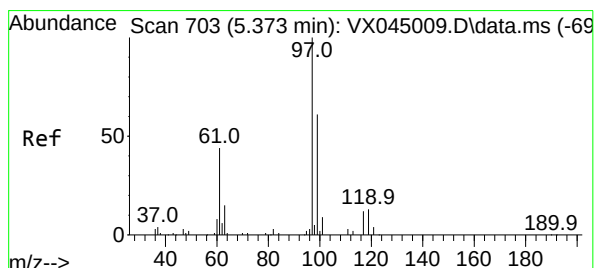
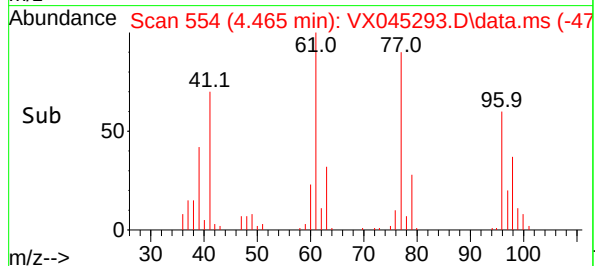
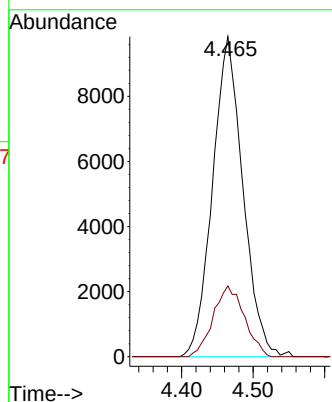
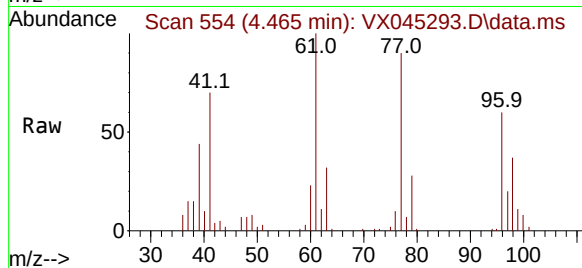




#31  
2,2-Dichloropropane  
Concen: 17.203 ug/l  
RT: 4.465 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

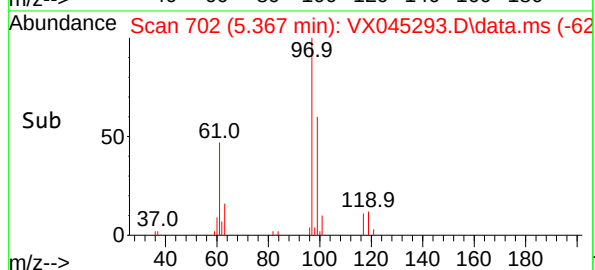
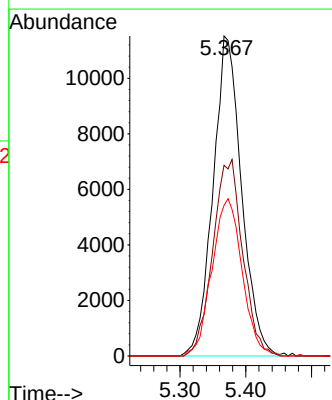
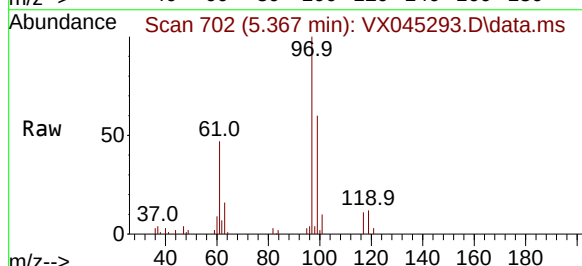
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

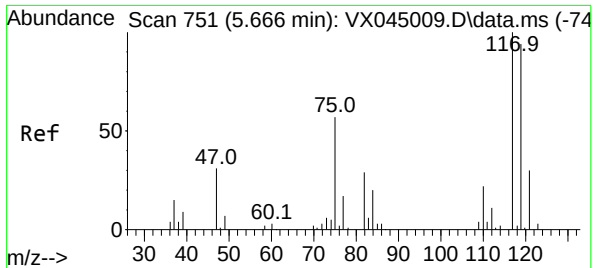
Tgt Ion: 77 Resp: 28902  
Ion Ratio Lower Upper  
77 100  
97 22.8 18.0 27.0



#32  
1,1,1-Trichloroethane  
Concen: 19.294 ug/l  
RT: 5.367 min Scan# 702  
Delta R.T. -0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 97 Resp: 34733  
Ion Ratio Lower Upper  
97 100  
99 64.1 52.2 78.2  
61 52.2 38.5 57.7

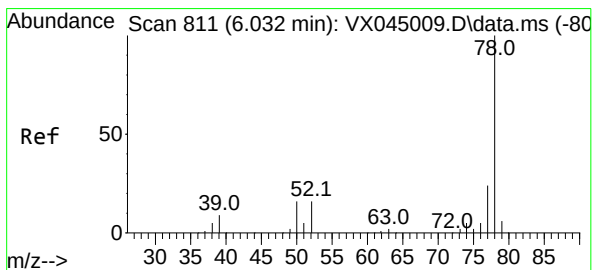
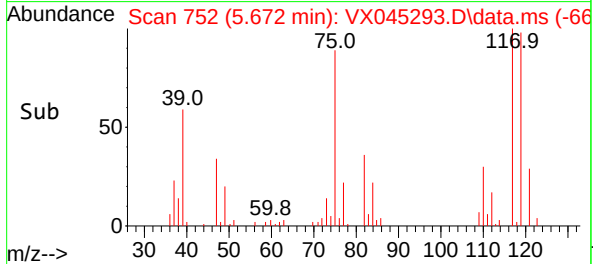
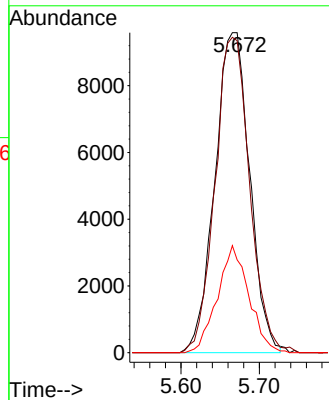
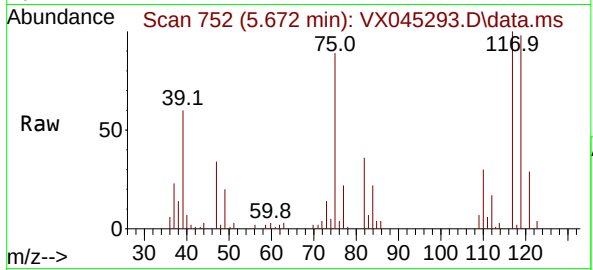




#33  
Carbon Tetrachloride  
Concen: 19.523 ug/l  
RT: 5.672 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

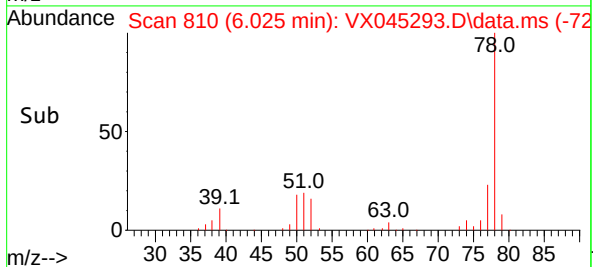
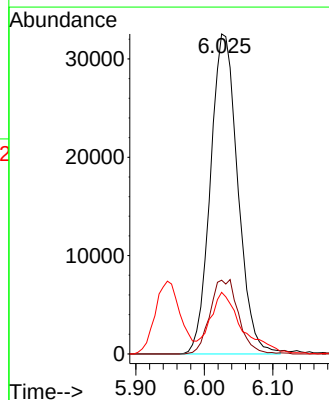
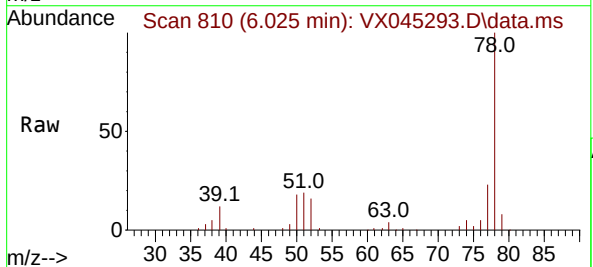
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

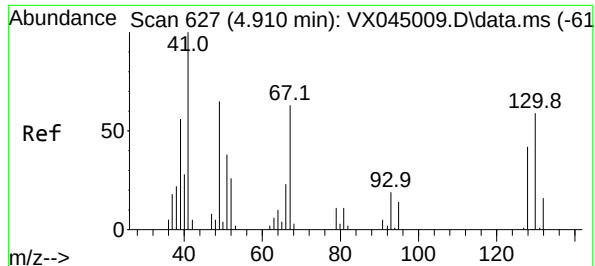
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 29661 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 97.5  | 75.1  | 112.7 |
| 121      | 29.0  | 23.9  | 35.9  |



#34  
Benzene  
Concen: 19.365 ug/l  
RT: 6.025 min Scan# 810  
Delta R.T. -0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 90227 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 23.1  | 19.6  | 29.4  |
| 51       | 18.4  | 13.8  | 20.6  |





#35

Methacrylonitrile

Concen: 21.124 ug/l

RT: 4.916 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

Tgt Ion: 41 Resp: 19399

Ion Ratio Lower Upper

41

100

39

54.2

67

56.5

52

26.6

27.8

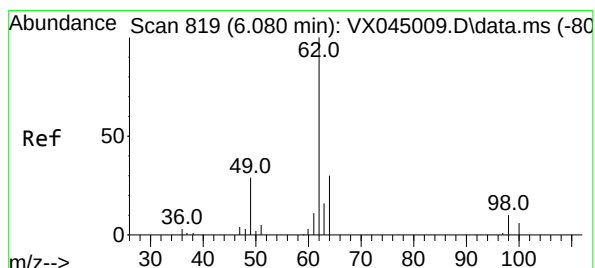
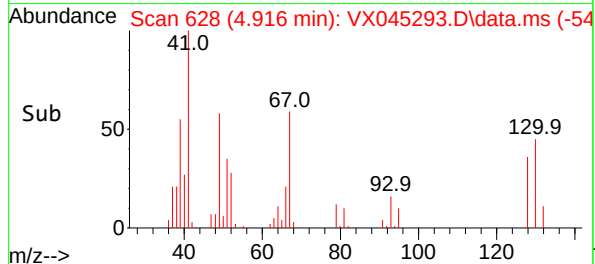
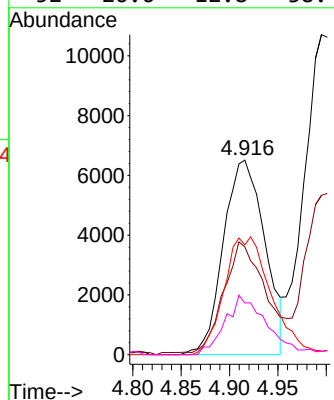
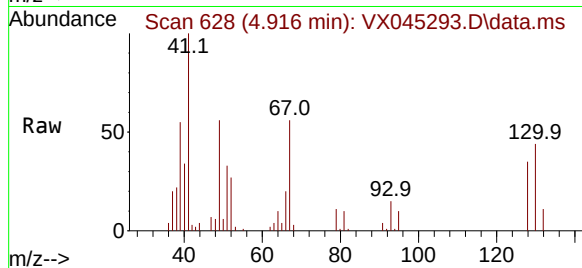
31.5

12.8

83.4

94.5

38.4



#36

1,2-Dichloroethane

Concen: 21.389 ug/l

RT: 6.080 min Scan# 819

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Tgt Ion: 62 Resp: 34119

Ion Ratio Lower Upper

62

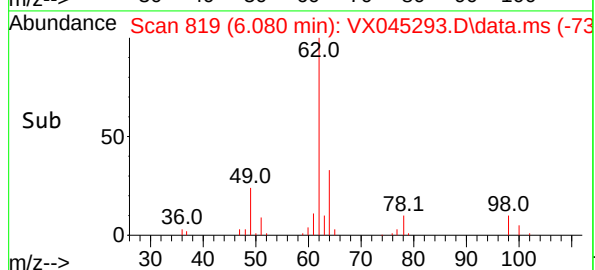
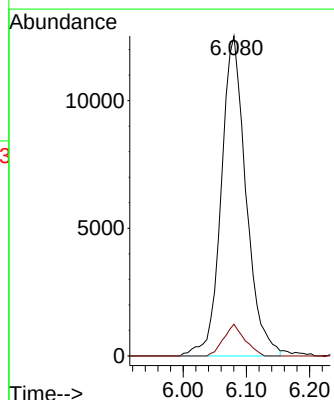
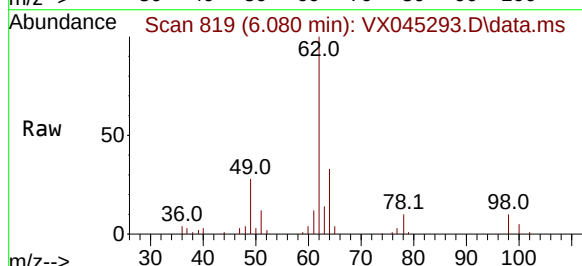
100

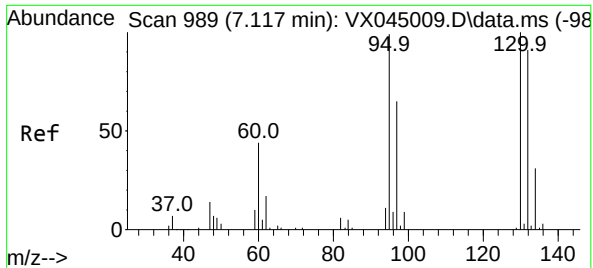
98

8.4

7.9

11.9





#37

Trichloroethene

Concen: 18.904 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

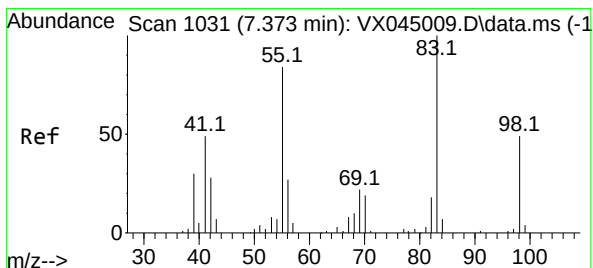
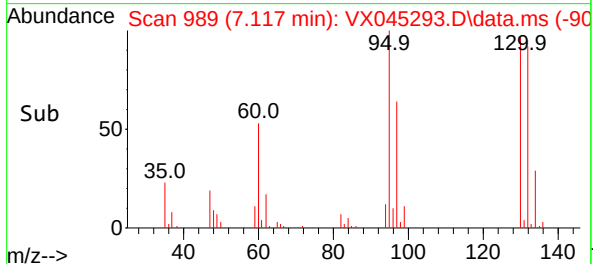
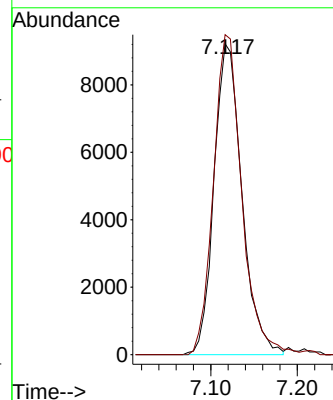
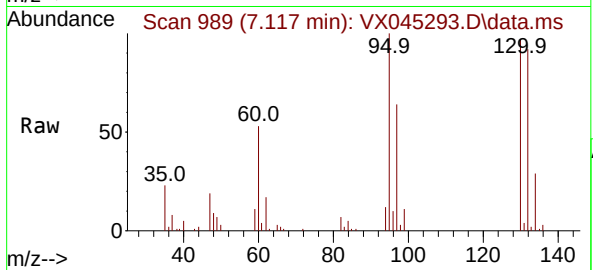
VX0314WBSD01

Tgt Ion:130 Resp: 20606

Ion Ratio Lower Upper

130 100

95 102.9 79.0 118.4



#38

Methylcyclohexane

Concen: 18.819 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

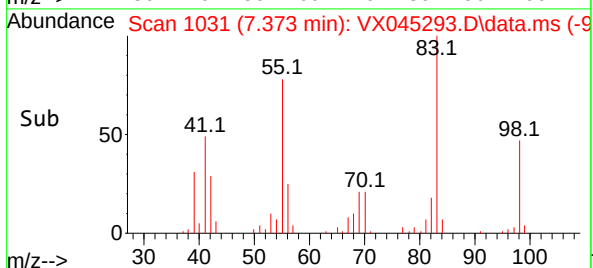
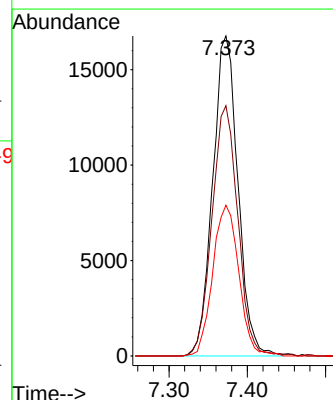
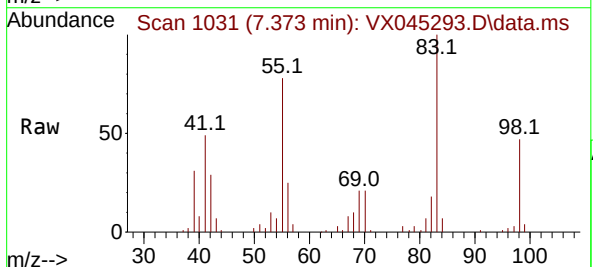
Tgt Ion: 83 Resp: 37543

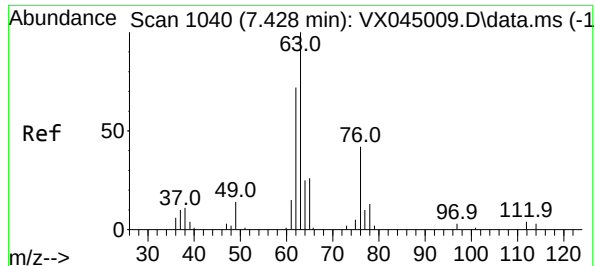
Ion Ratio Lower Upper

83 100

55 79.8 40.6 122.0

98 48.9 24.9 74.6





#39

1,2-Dichloropropane

Concen: 19.597 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

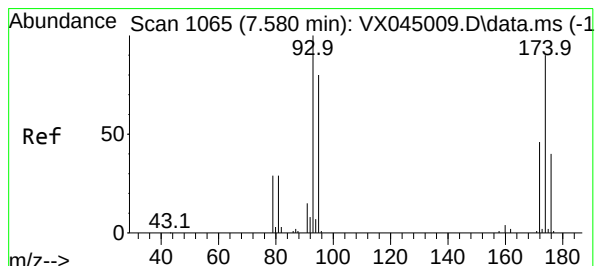
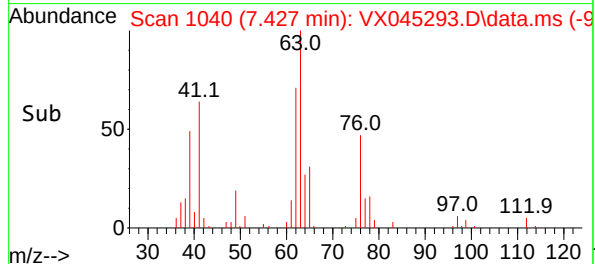
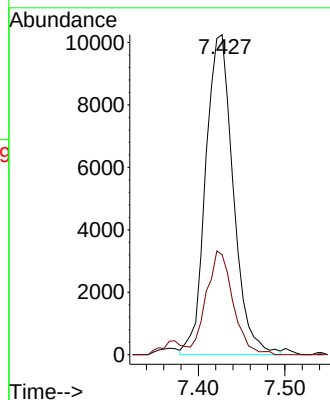
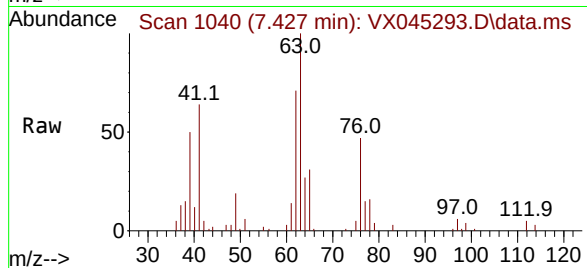
VX0314WBSD01

Tgt Ion: 63 Resp: 22700

Ion Ratio Lower Upper

63 100

65 31.6 24.3 36.5



#40

Dibromomethane

Concen: 20.503 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

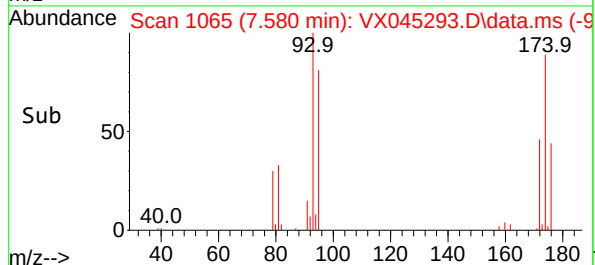
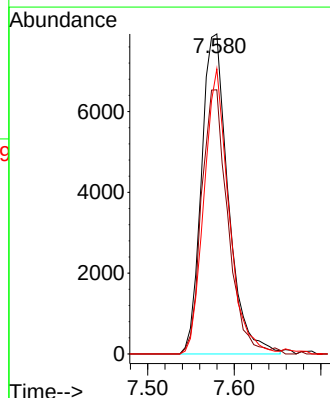
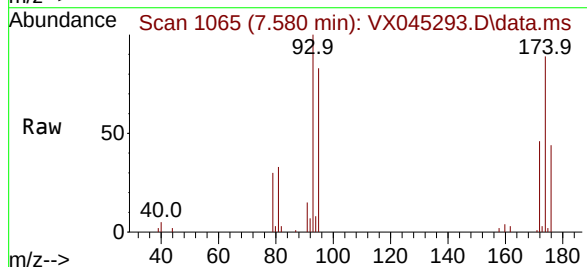
Tgt Ion: 93 Resp: 17043

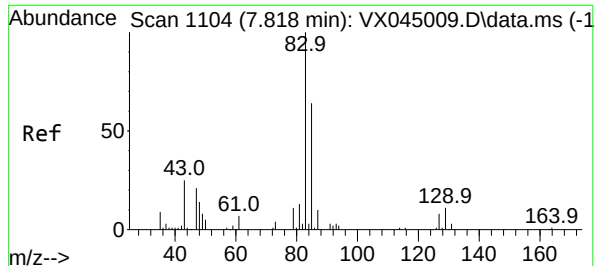
Ion Ratio Lower Upper

93 100

95 80.6 0.0 162.6

174 82.6 0.0 178.8





#41

Bromodichloromethane

Concen: 20.034 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

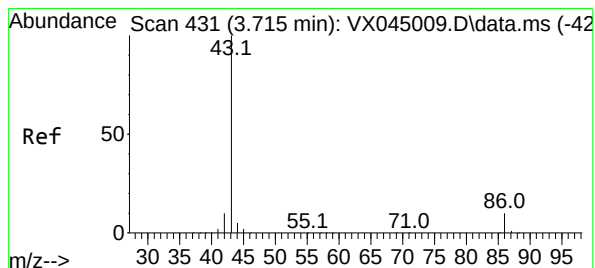
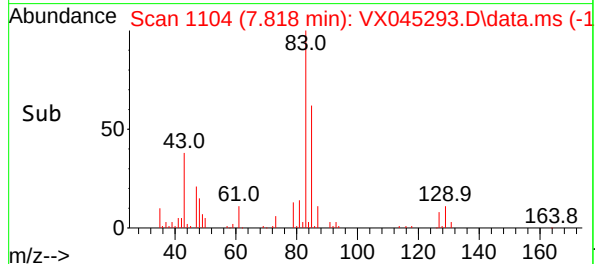
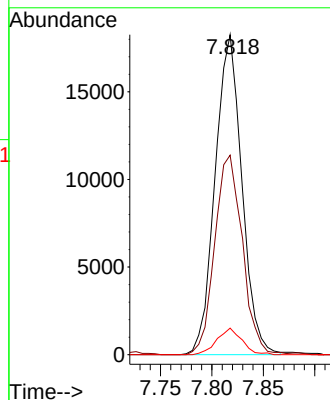
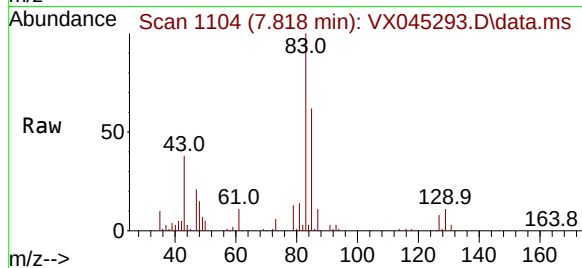
Tgt Ion: 83 Resp: 33099

Ion Ratio Lower Upper

83 100

85 62.4 51.0 76.6

127 8.3 6.1 9.1



#42

Vinyl Acetate

Concen: 93.704 ug/l

RT: 3.715 min Scan# 431

Delta R.T. -0.000 min

Lab File: VX045293.D

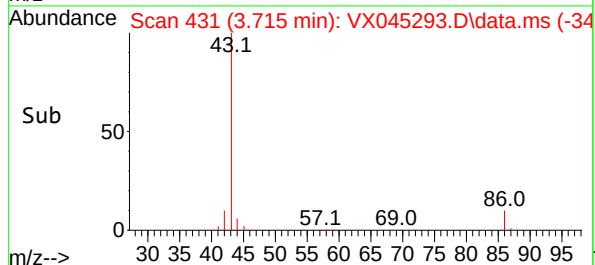
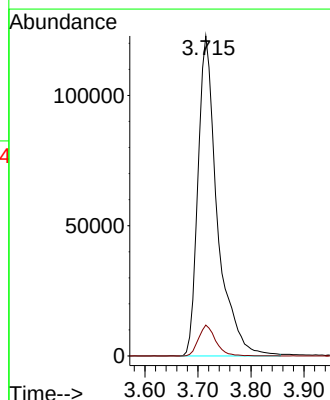
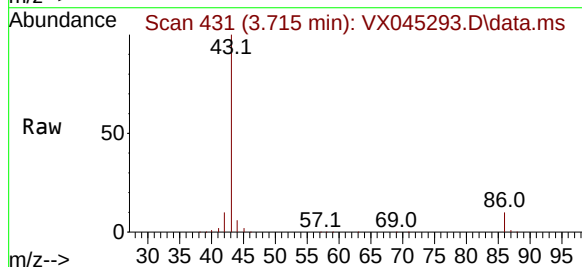
Acq: 14 Mar 2025 15:22

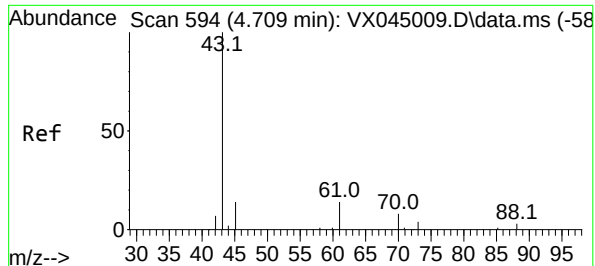
Tgt Ion: 43 Resp: 312048

Ion Ratio Lower Upper

43 100

86 8.5 7.0 10.4





#43

Ethyl Acetate

Concen: 20.020 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

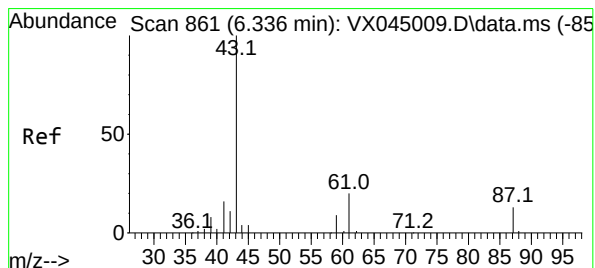
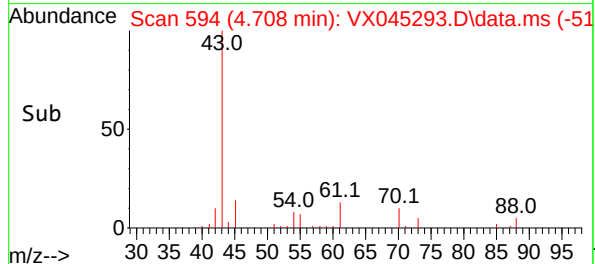
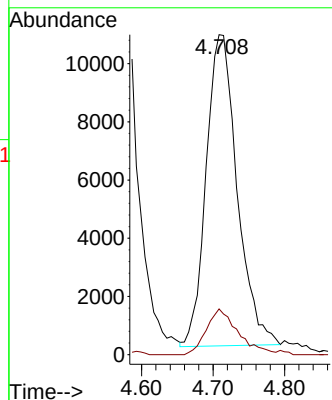
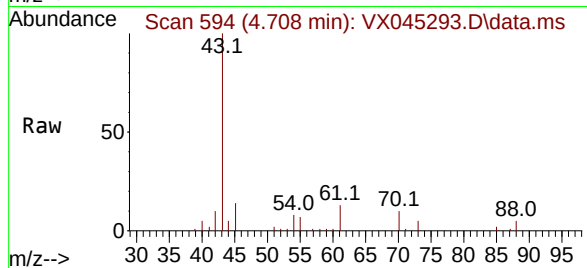
VX0314WBSD01

Tgt Ion: 43 Resp: 32219

Ion Ratio Lower Upper

43 100

45 13.7 12.7 19.1



#44

Isopropyl Acetate

Concen: 19.883 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX045293.D

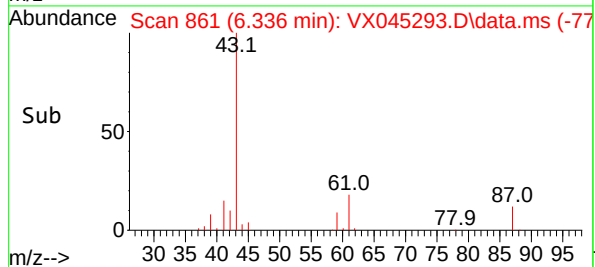
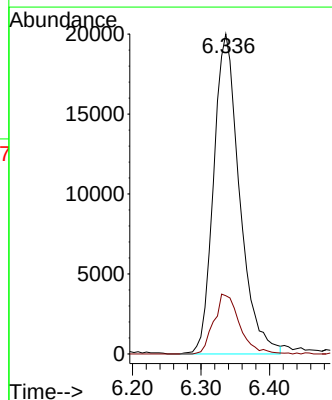
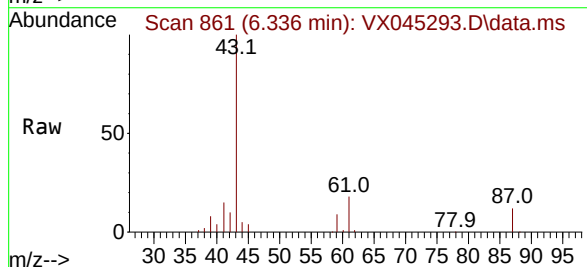
Acq: 14 Mar 2025 15:22

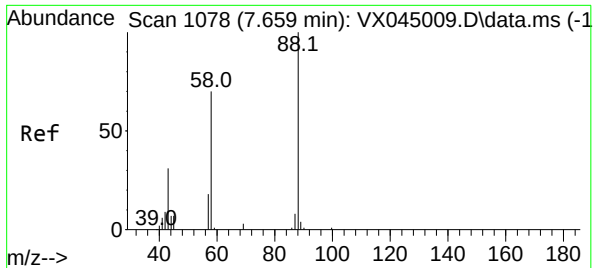
Tgt Ion: 43 Resp: 52666

Ion Ratio Lower Upper

43 100

61 17.9 15.5 23.3

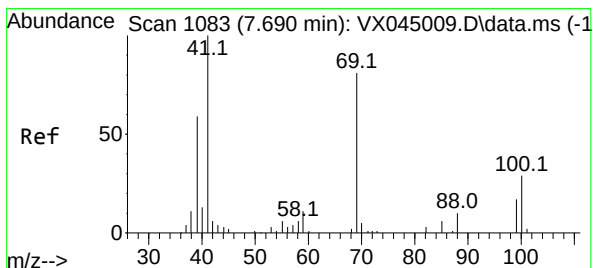
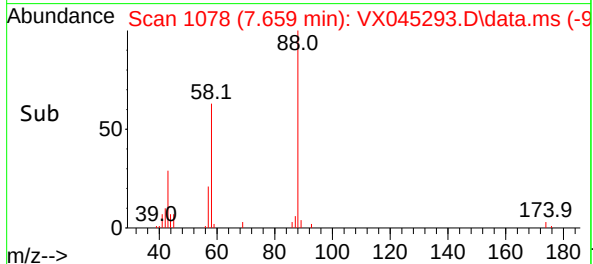
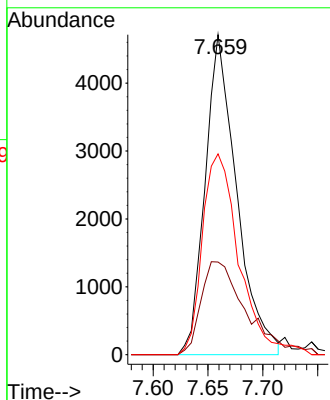
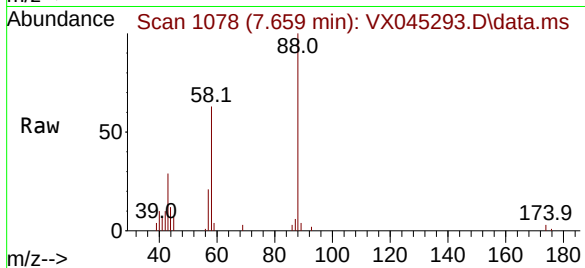




#45  
1,4-Dioxane  
Concen: 342.398 ug/l  
RT: 7.659 min Scan# 1078  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

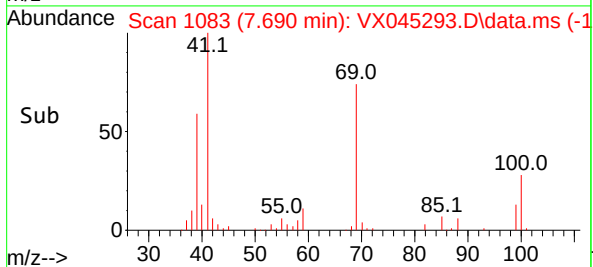
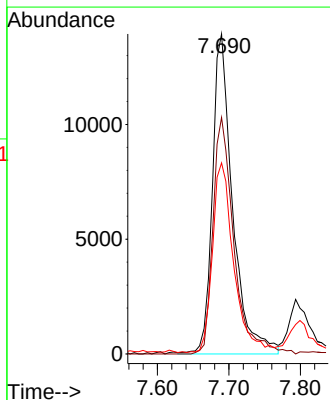
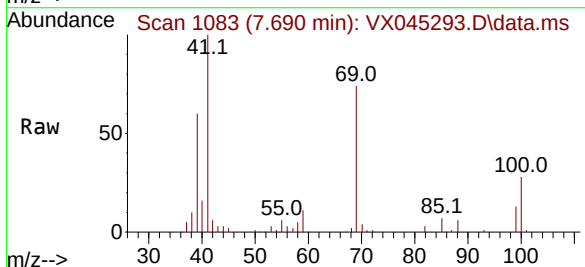
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

Tgt Ion: 88 Resp: 9428  
Ion Ratio Lower Upper  
88 100  
43 40.2 29.6 44.4  
58 73.3 56.2 84.4

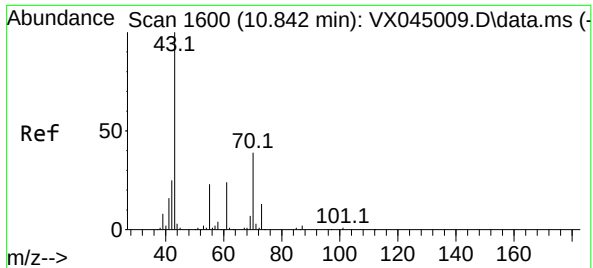


#46  
Methyl methacrylate  
Concen: 21.096 ug/l  
RT: 7.690 min Scan# 1083  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 41 Resp: 27400  
Ion Ratio Lower Upper  
41 100  
69 74.2 40.7 122.1  
39 59.5 29.5 88.5







#47

n-amy1 Acetate

Concen: 19.537 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

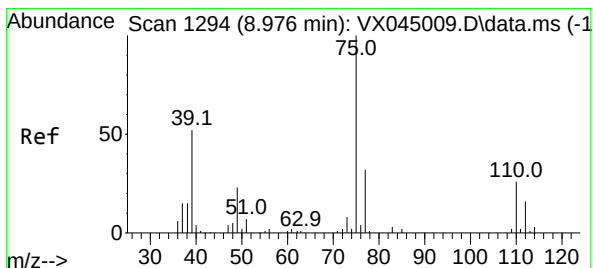
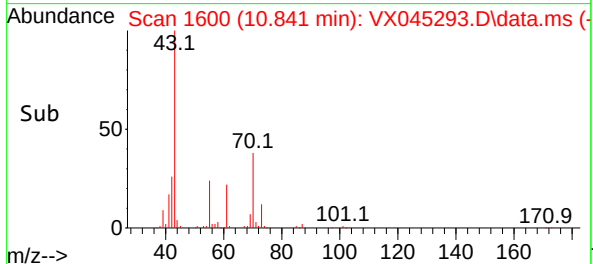
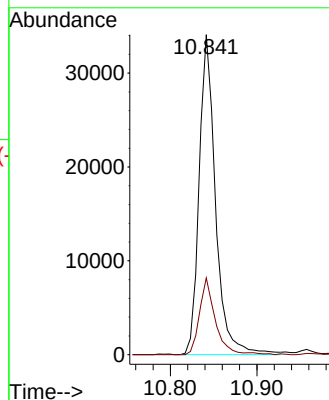
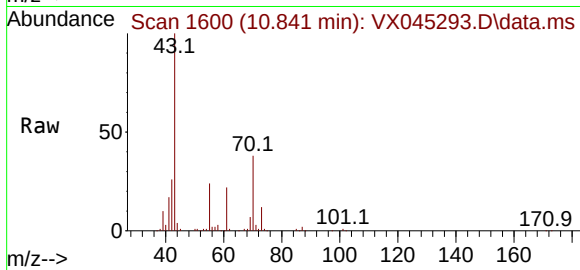
VX0314WBSD01

Tgt Ion: 43 Resp: 44905

Ion Ratio Lower Upper

43 100

55 22.5 18.6 27.8



#48

t-1,3-Dichloropropene

Concen: 17.274 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX045293.D

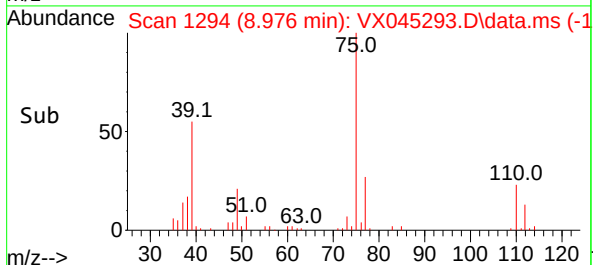
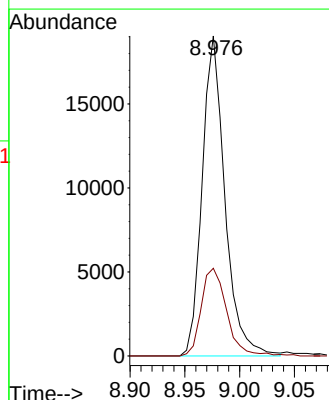
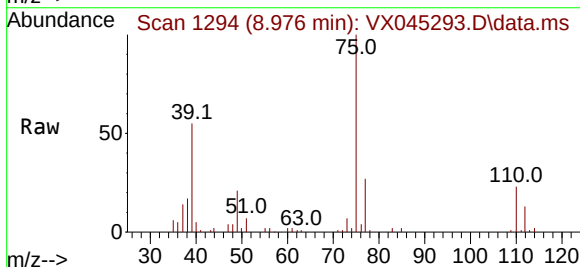
Acq: 14 Mar 2025 15:22

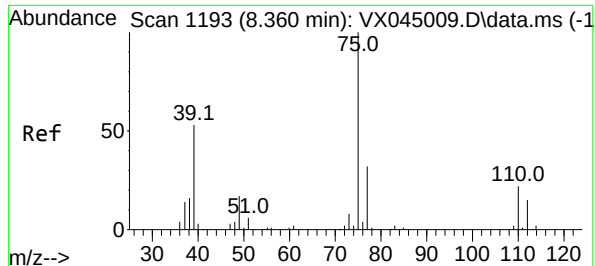
Tgt Ion: 75 Resp: 27508

Ion Ratio Lower Upper

75 100

77 27.4 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 18.295 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

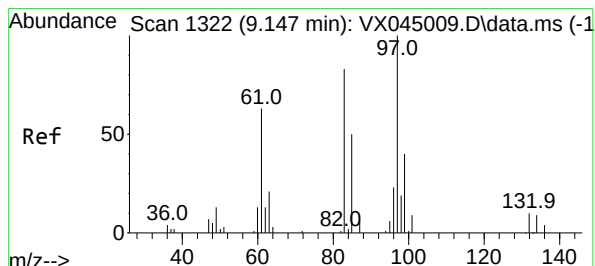
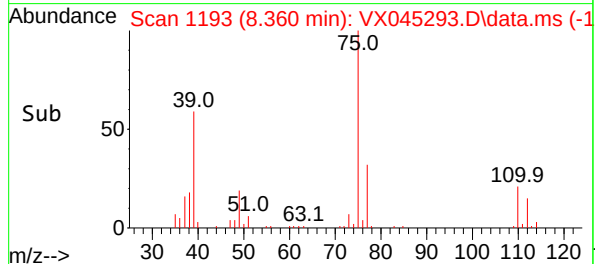
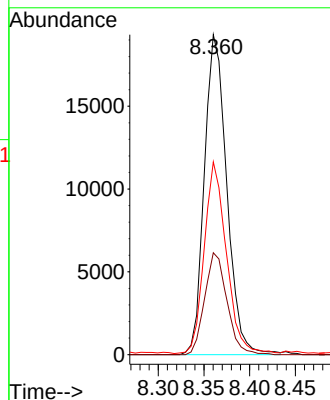
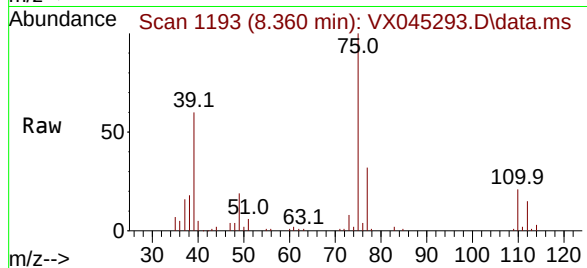
Tgt Ion: 75 Resp: 32980

Ion Ratio Lower Upper

75 100

77 31.8 25.9 38.9

39 59.7 42.3 63.5



#50

1,1,2-Trichloroethane

Concen: 19.557 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Tgt Ion: 97 Resp: 21205

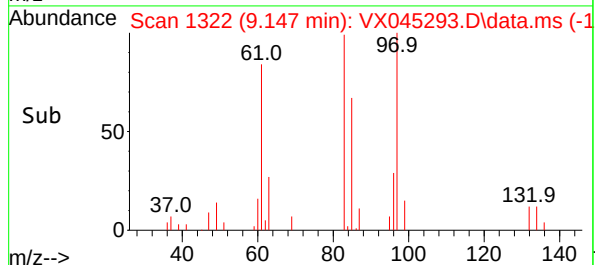
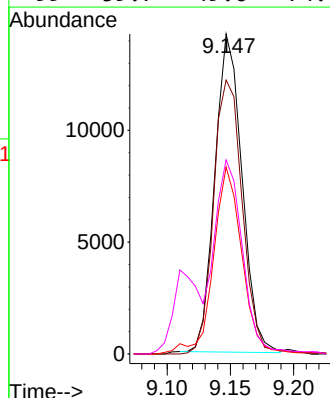
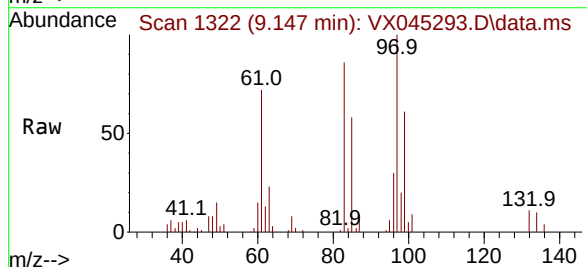
Ion Ratio Lower Upper

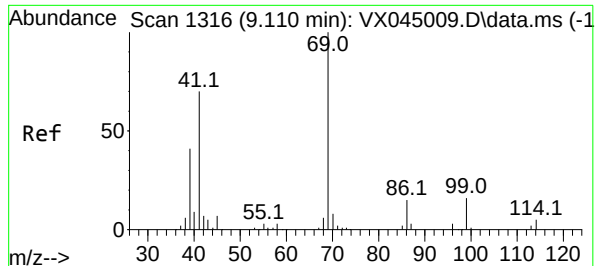
97 100

83 86.3 66.0 99.0

85 57.8 42.5 63.7

99 59.7 49.6 74.4





#51

Ethyl methacrylate

Concen: 19.644 ug/l

RT: 9.116 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

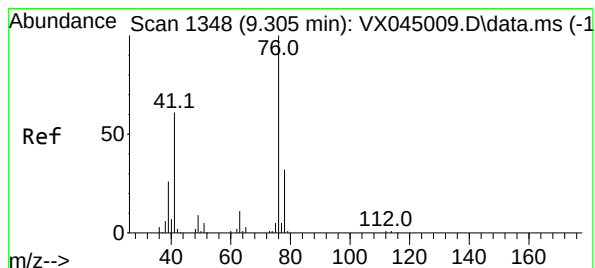
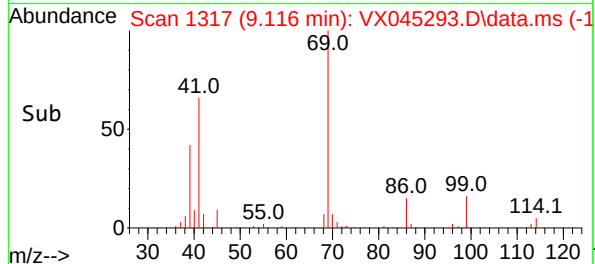
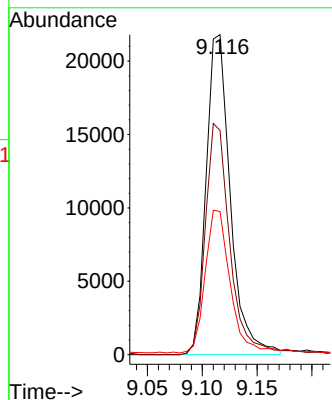
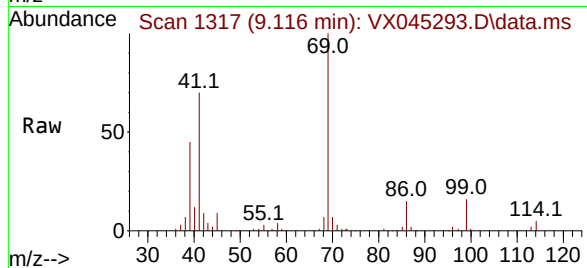
Tgt Ion: 69 Resp: 33498

Ion Ratio Lower Upper

69 100

41 70.0 35.1 105.3

39 44.2 20.5 61.6



#52

1,3-Dichloropropane

Concen: 20.208 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VX045293.D

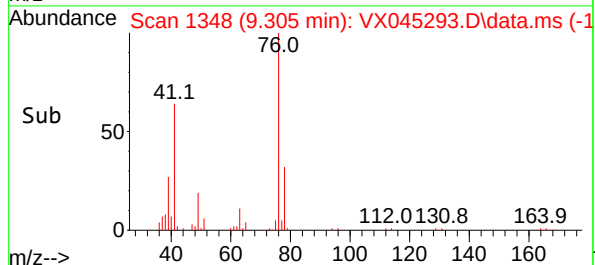
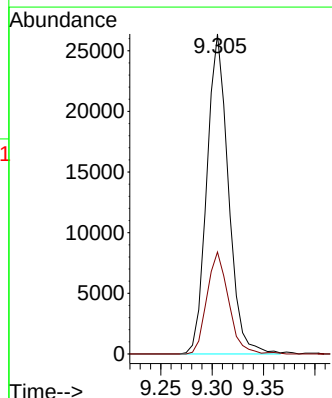
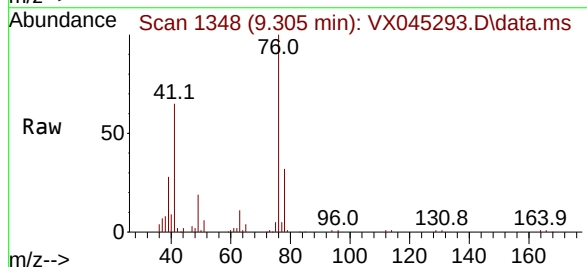
Acq: 14 Mar 2025 15:22

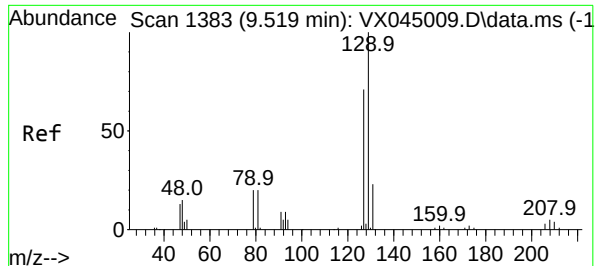
Tgt Ion: 76 Resp: 38391

Ion Ratio Lower Upper

76 100

78 31.8 0.0 63.6





#53

Dibromochloromethane

Concen: 19.346 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

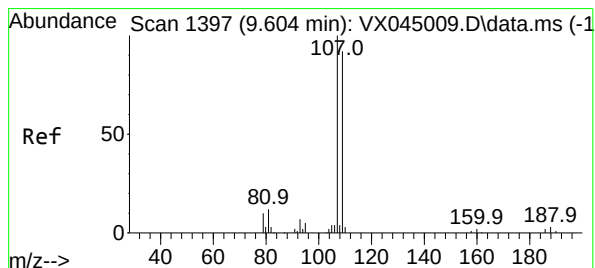
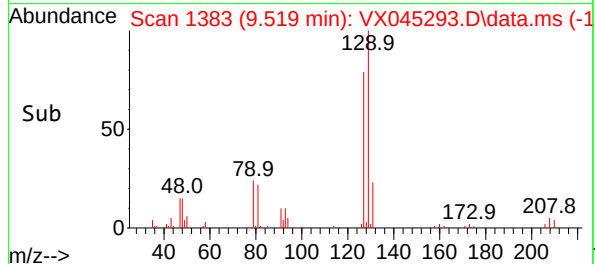
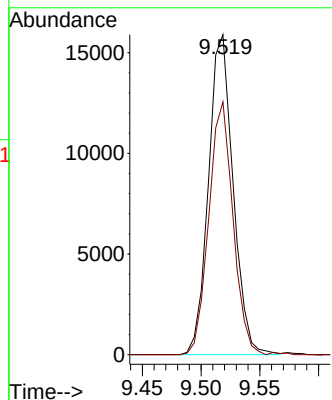
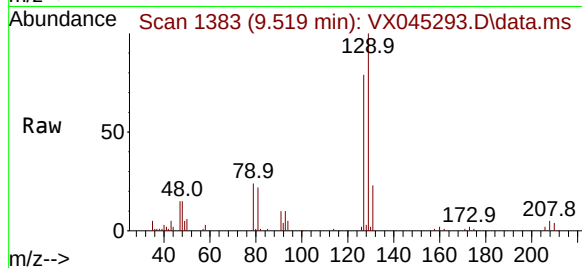
VX0314WBSD01

Tgt Ion:129 Resp: 23199

Ion Ratio Lower Upper

129 100

127 77.4 37.3 111.9



#54

1,2-Dibromoethane

Concen: 20.301 ug/l

RT: 9.604 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VX045293.D

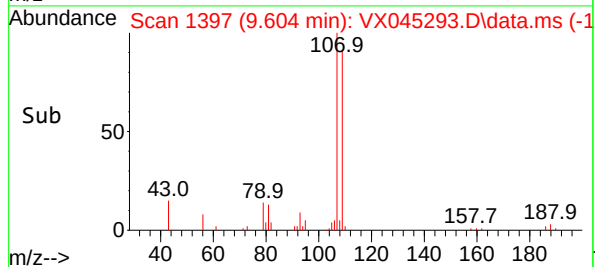
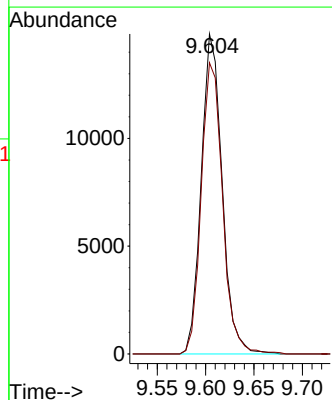
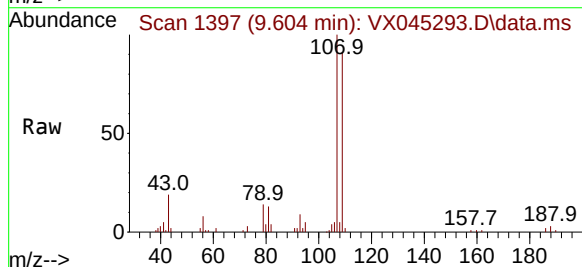
Acq: 14 Mar 2025 15:22

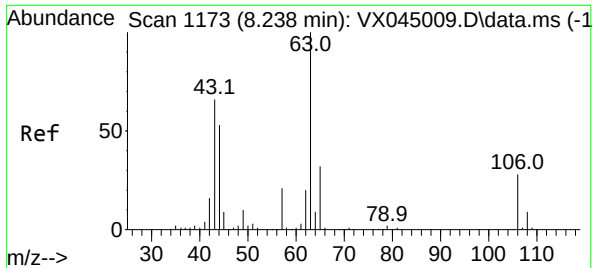
Tgt Ion:107 Resp: 22351

Ion Ratio Lower Upper

107 100

109 92.9 75.8 113.8





#55

2-Chloroethyl vinyl ether

Concen: 101.295 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

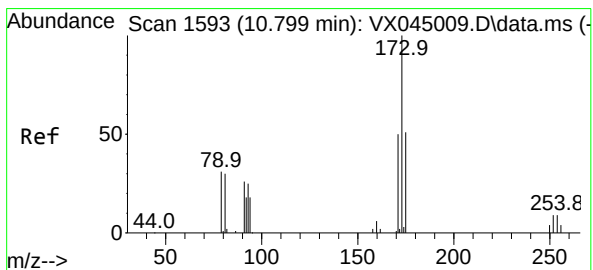
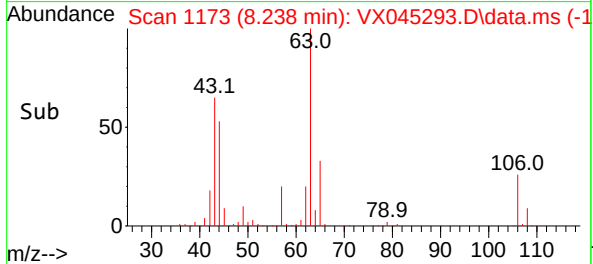
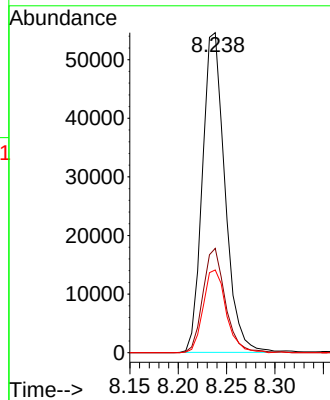
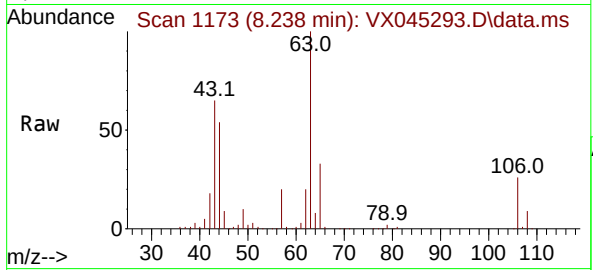
Tgt Ion: 63 Resp: 88703

Ion Ratio Lower Upper

63 100

65 32.3 26.2 39.2

106 26.4 21.2 31.8



#56

Bromoform

Concen: 19.191 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

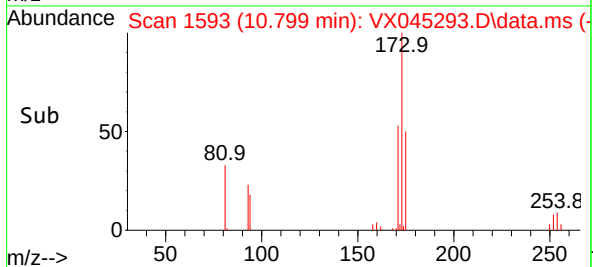
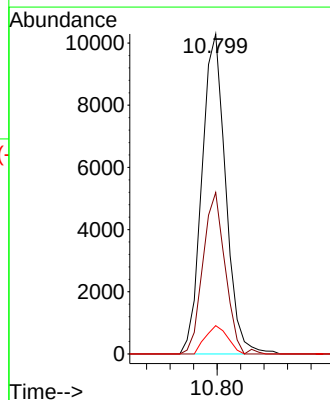
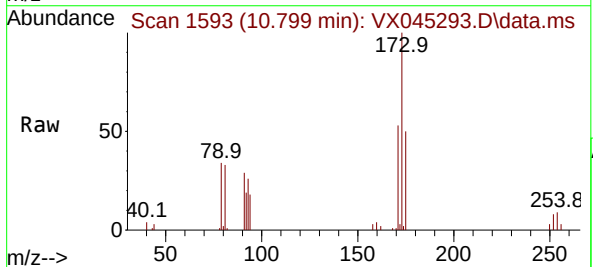
Tgt Ion:173 Resp: 14421

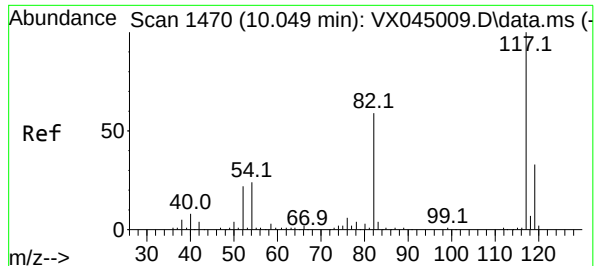
Ion Ratio Lower Upper

173 100

175 46.8 39.6 59.4

254 8.3 6.3 9.5





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

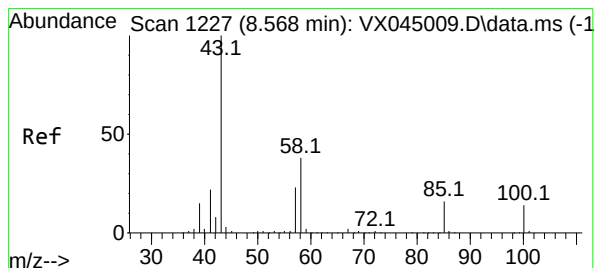
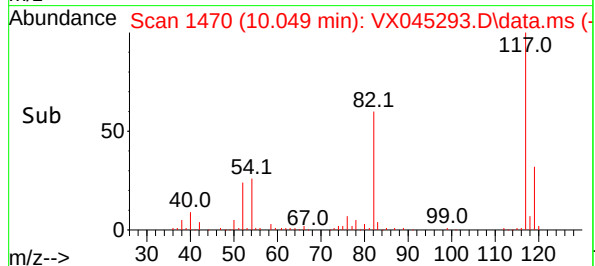
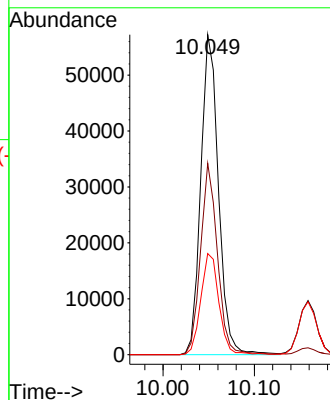
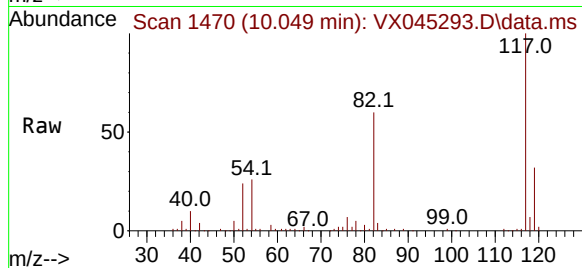
Tgt Ion:117 Resp: 76870

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.8

119 32.1 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 104.887 ug/l

RT: 8.568 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

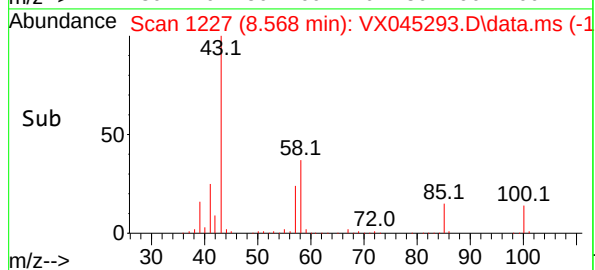
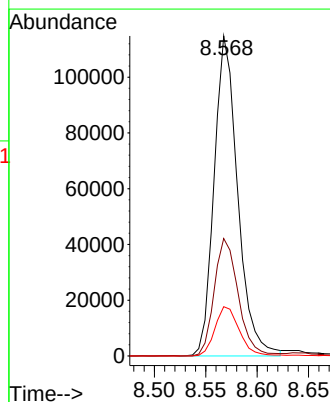
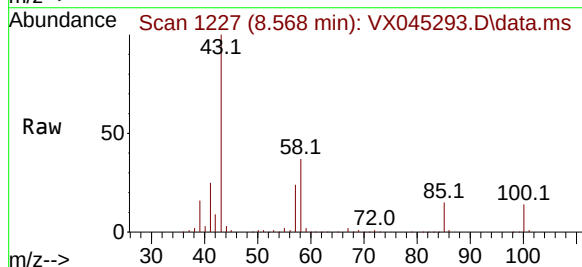
Tgt Ion: 43 Resp: 183409

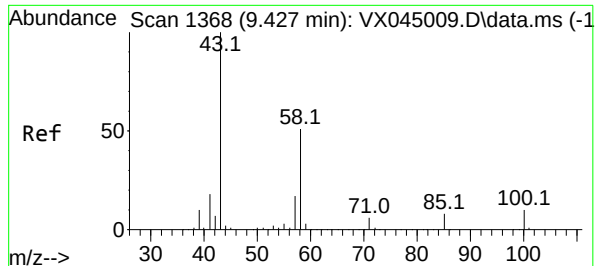
Ion Ratio Lower Upper

43 100

58 37.4 29.5 44.3

85 15.9 12.9 19.3





#59

2-Hexanone

Concen: 108.930 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

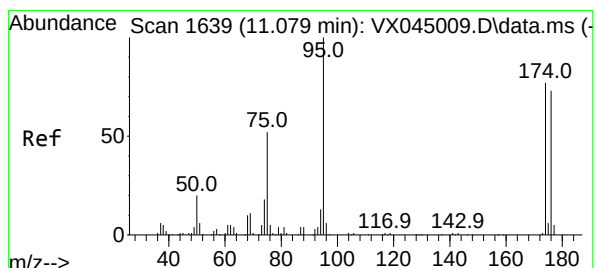
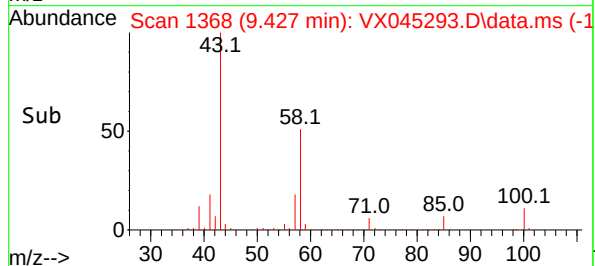
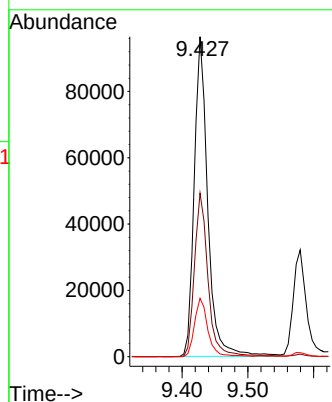
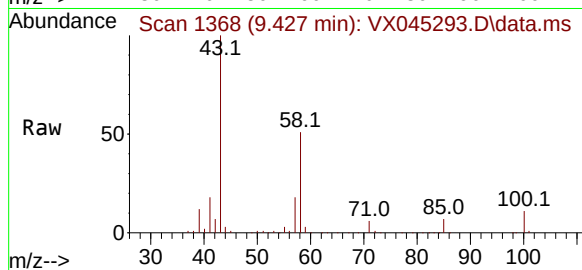
Tgt Ion: 43 Resp: 137679

Ion Ratio Lower Upper

43 100

58 51.3 41.6 62.4

57 17.7 13.8 20.6



#60

4-Bromofluorobenzene

Concen: 30.744 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

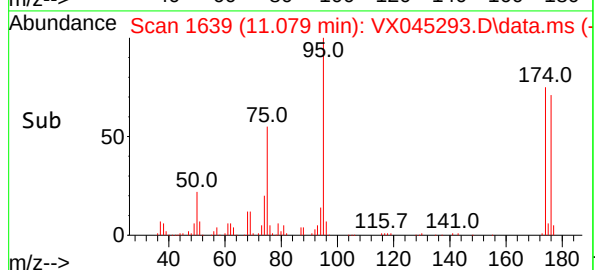
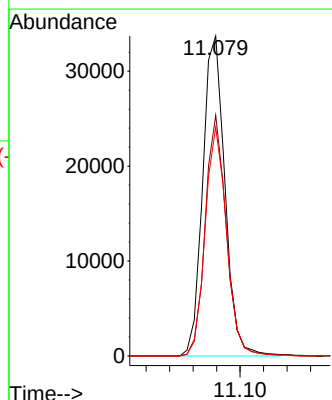
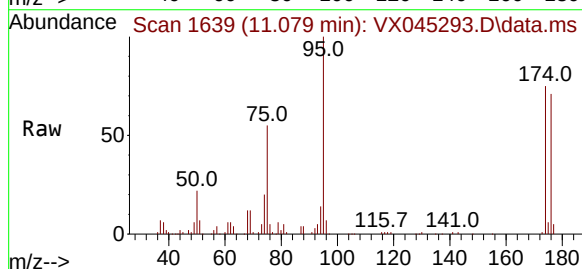
Tgt Ion: 95 Resp: 44173

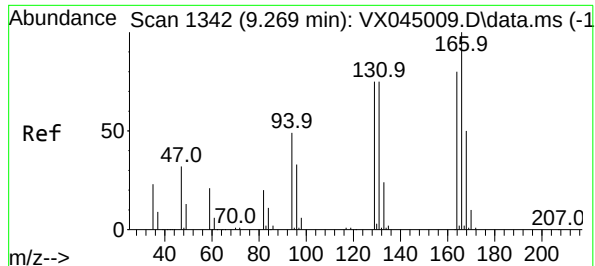
Ion Ratio Lower Upper

95 100

174 71.4 59.5 89.3

176 69.2 55.5 83.3





#61

Tetrachloroethene

Concen: 18.637 ug/l

RT: 9.269 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045293.D

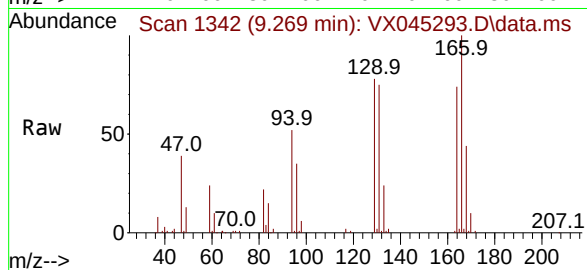
Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

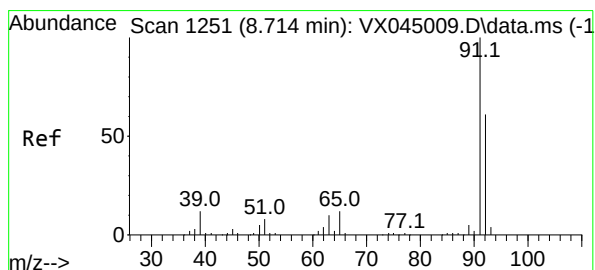
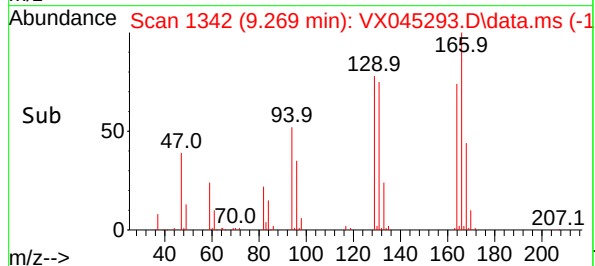
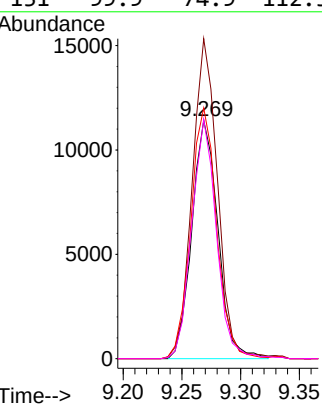
ClientSampleId :

VX0314WBSD01



Tgt Ion:164 Resp: 17641

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 133.6 | 100.3 | 150.5 |
| 129 | 104.8 | 75.5  | 113.3 |
| 131 | 99.9  | 74.9  | 112.3 |



#62

Toluene

Concen: 18.661 ug/l

RT: 8.714 min Scan# 1251

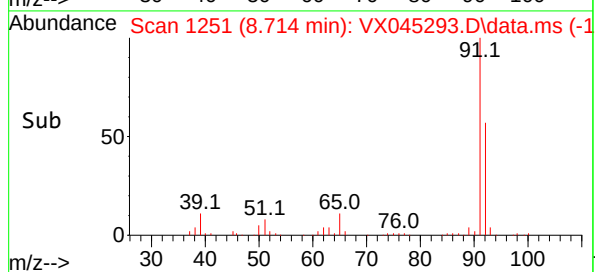
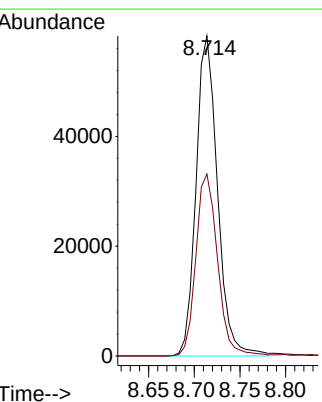
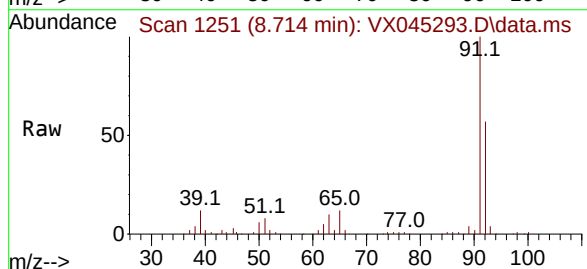
Delta R.T. -0.000 min

Lab File: VX045293.D

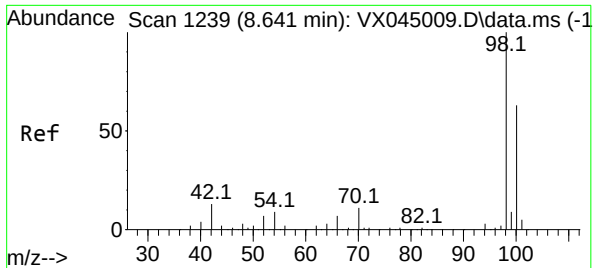
Acq: 14 Mar 2025 15:22

Tgt Ion: 91 Resp: 95024

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 57.4  | 46.9  | 70.3  |







#63

Toluene-d8

Concen: 29.781 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

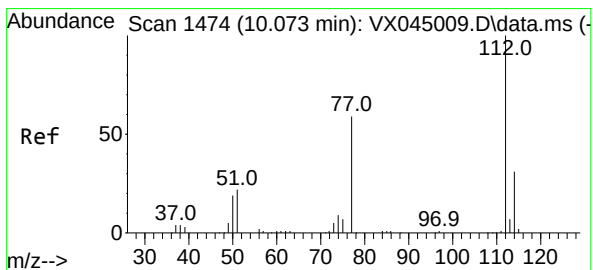
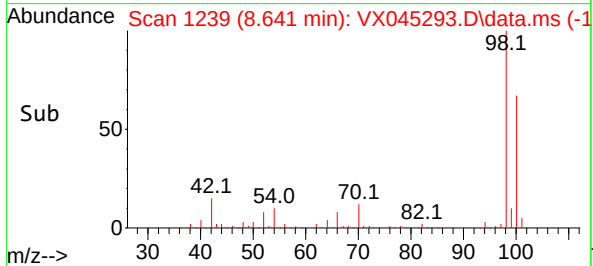
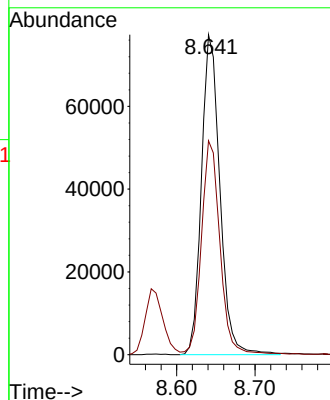
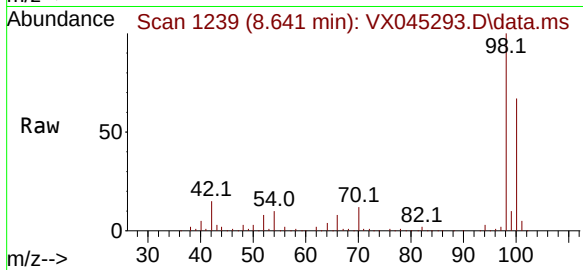
VX0314WBSD01

Tgt Ion: 98 Resp: 126647

Ion Ratio Lower Upper

98 100

100 66.8 51.7 77.5



#64

Chlorobenzene

Concen: 18.497 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. -0.000 min

Lab File: VX045293.D

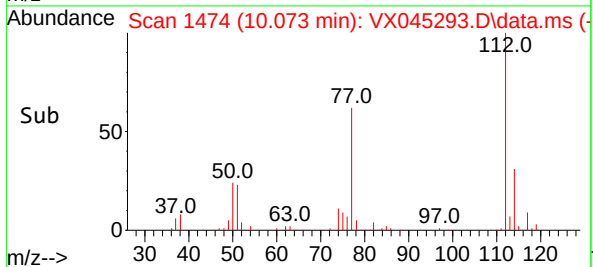
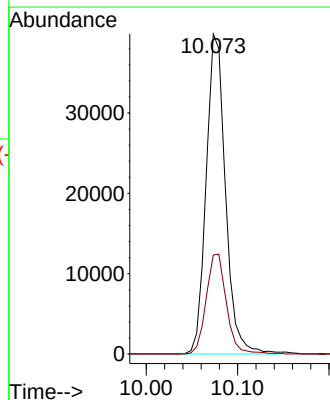
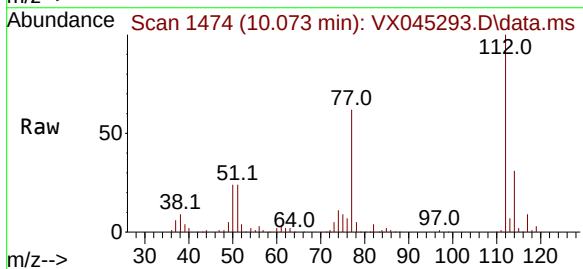
Acq: 14 Mar 2025 15:22

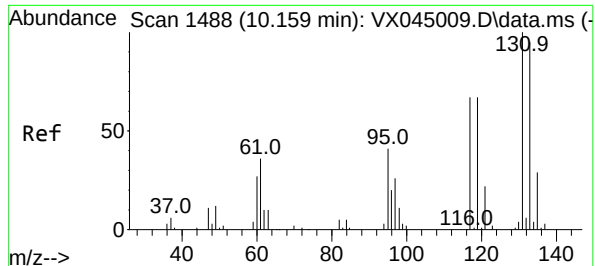
Tgt Ion: 112 Resp: 58366

Ion Ratio Lower Upper

112 100

114 31.0 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 18.528 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

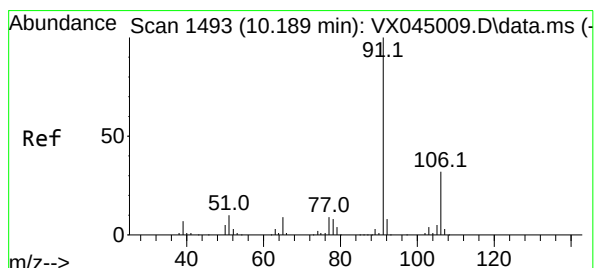
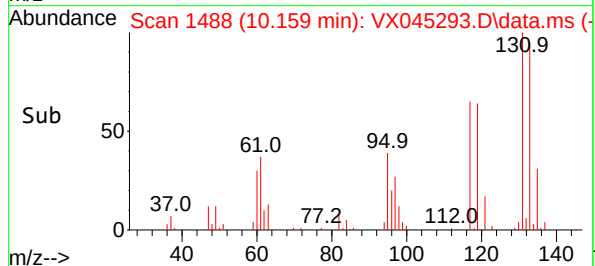
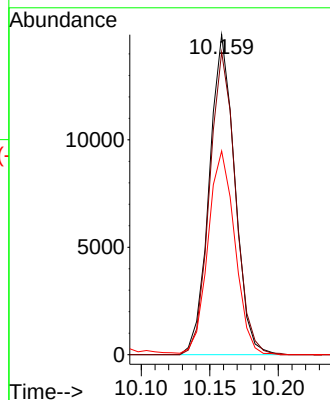
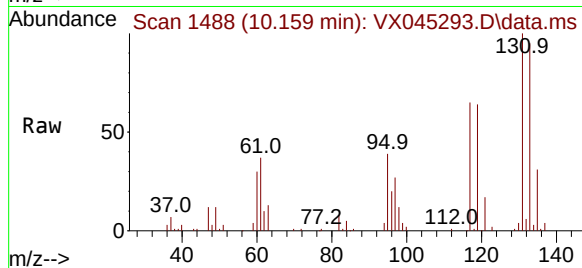
Tgt Ion:131 Resp: 19291

Ion Ratio Lower Upper

131 100

133 95.9 0.0 187.8

119 66.9 0.0 133.0



#66

Ethyl Benzene

Concen: 18.626 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX045293.D

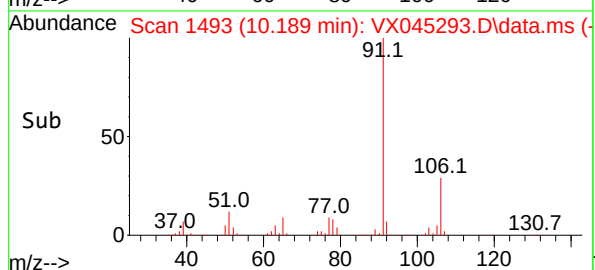
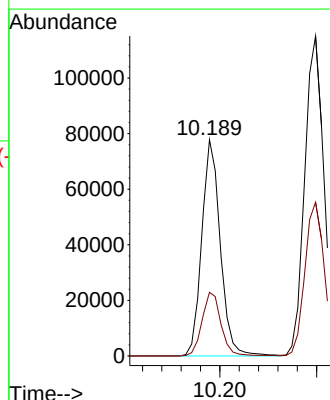
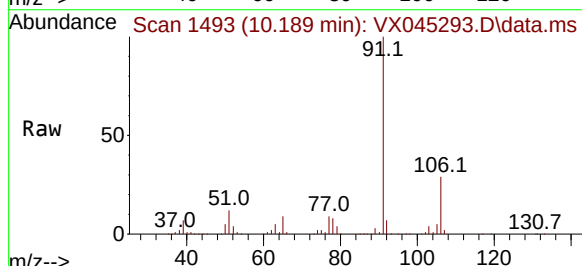
Acq: 14 Mar 2025 15:22

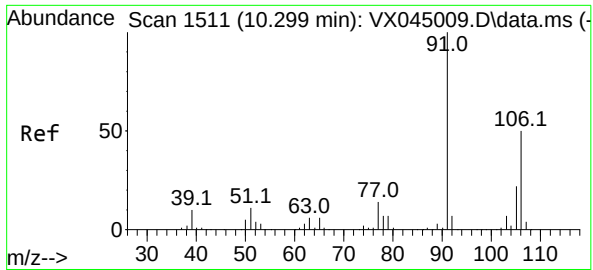
Tgt Ion: 91 Resp: 103839

Ion Ratio Lower Upper

91 100

106 29.4 25.4 38.2

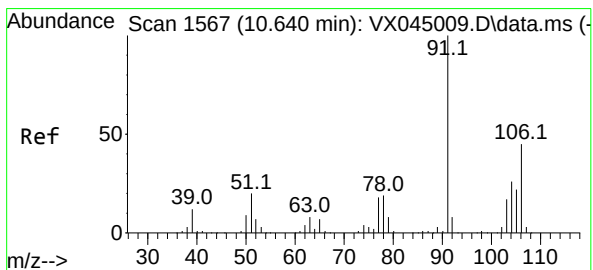
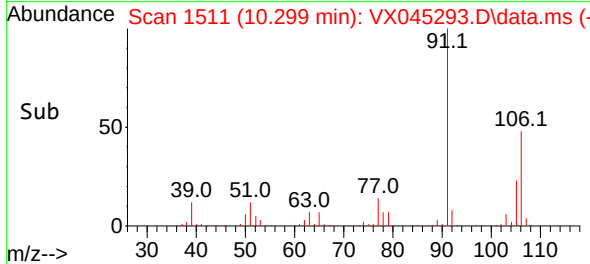
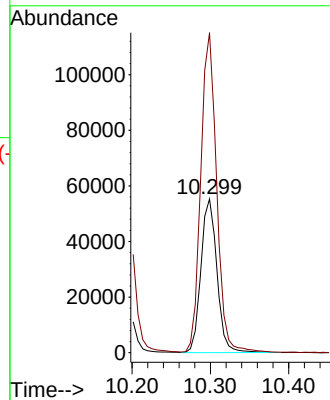
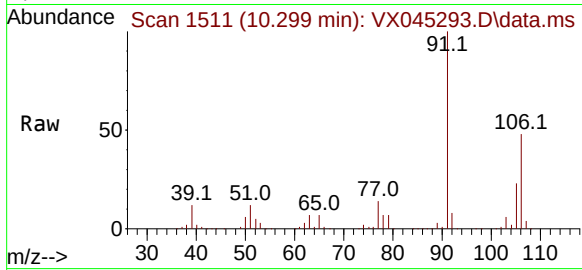




#67  
m/p-Xylenes  
Concen: 37.860 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

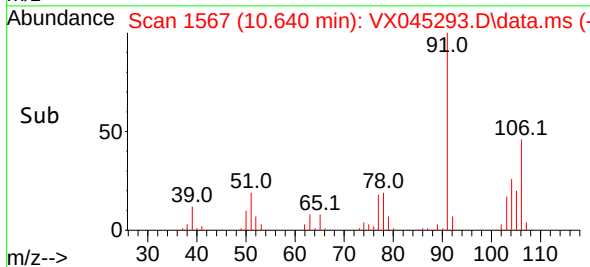
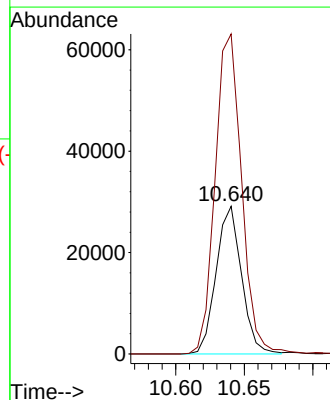
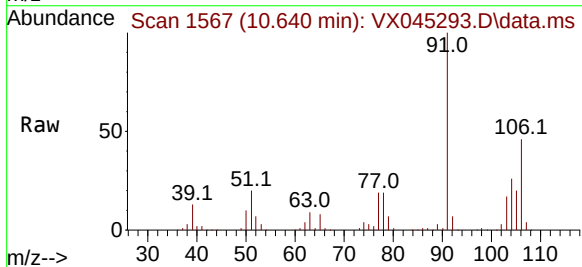
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

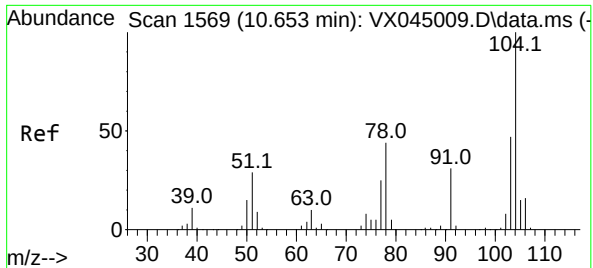
Tgt Ion:106 Resp: 78640  
Ion Ratio Lower Upper  
106 100  
91 205.7 163.7 245.5



#68  
o-Xylene  
Concen: 18.442 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion:106 Resp: 37584  
Ion Ratio Lower Upper  
106 100  
91 225.6 109.7 329.1





#69

Styrene

Concen: 18.879 ug/l

RT: 10.652 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

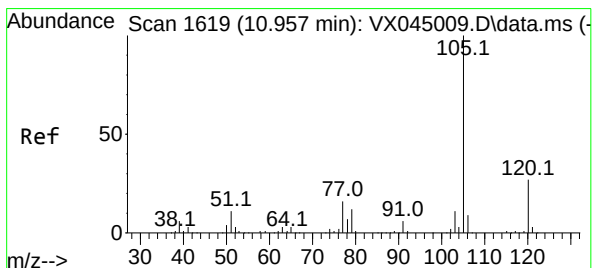
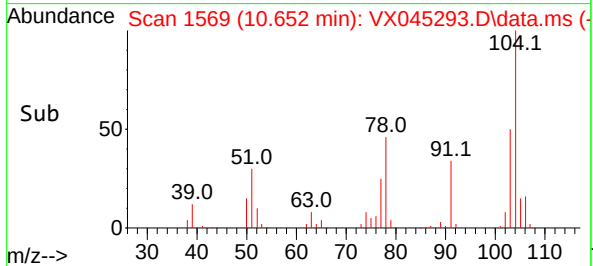
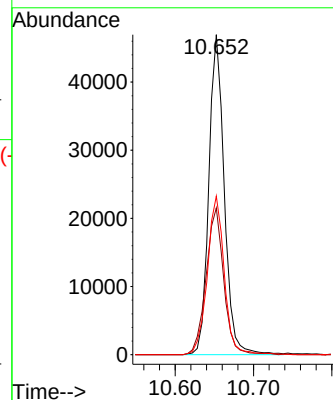
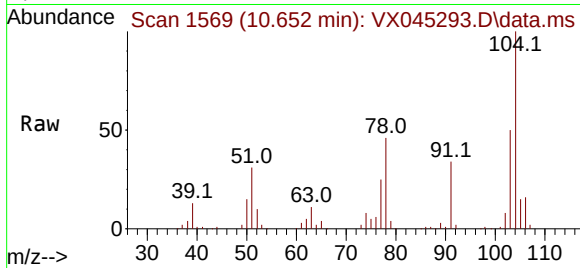
Tgt Ion:104 Resp: 64261

Ion Ratio Lower Upper

104 100

78 52.4 41.4 62.0

103 54.0 43.0 64.4



#70

Isopropylbenzene

Concen: 19.379 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VX045293.D

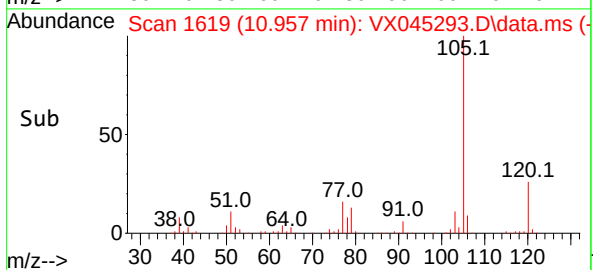
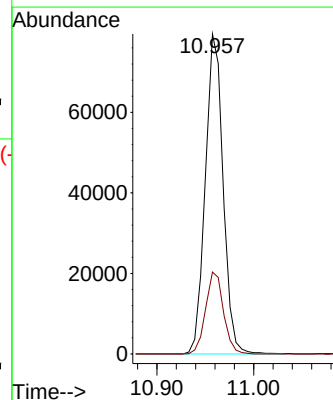
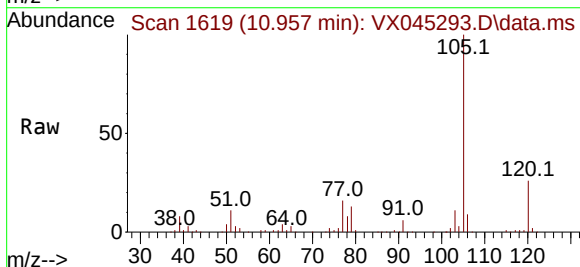
Acq: 14 Mar 2025 15:22

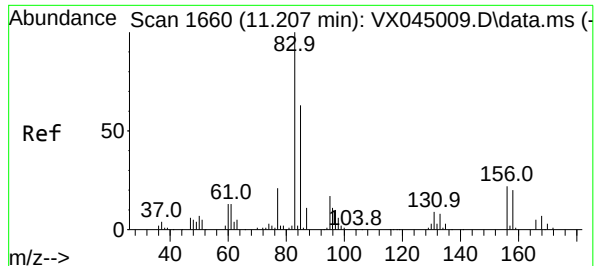
Tgt Ion:105 Resp: 101919

Ion Ratio Lower Upper

105 100

120 25.7 18.4 34.2





#71

1,1,2,2-Tetrachloroethane

Concen: 20.736 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

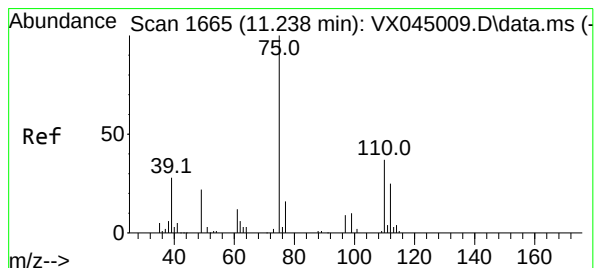
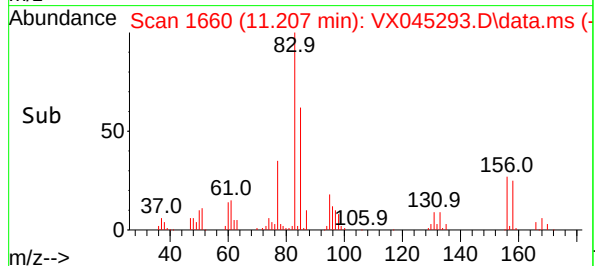
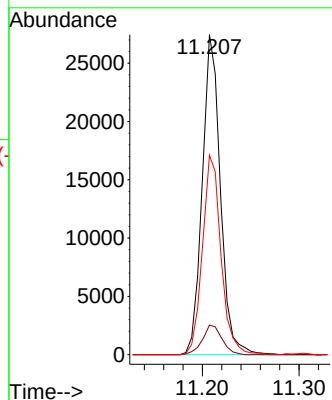
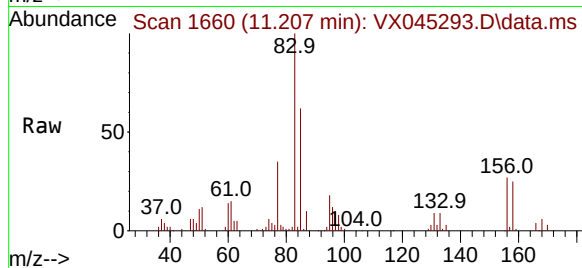
Tgt Ion: 83 Resp: 35862

Ion Ratio Lower Upper

83 100

131 10.0 4.8 14.3

85 63.7 32.3 96.8



#72

1,2,3-Trichloropropane

Concen: 20.544 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX045293.D

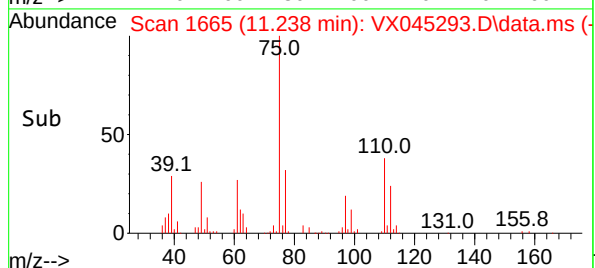
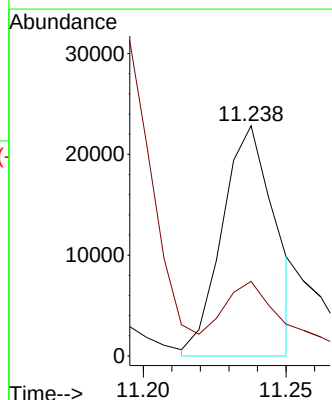
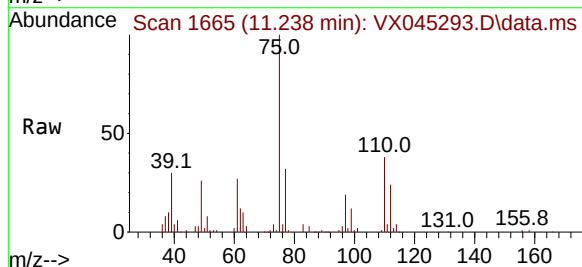
Acq: 14 Mar 2025 15:22

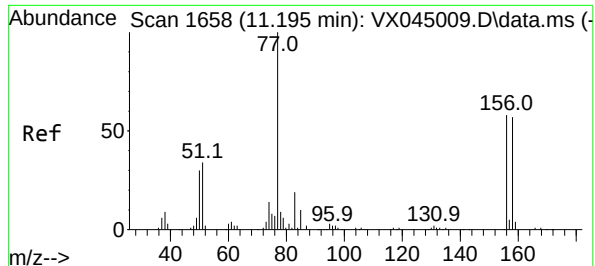
Tgt Ion: 75 Resp: 29223

Ion Ratio Lower Upper

75 100

77 39.9 0.0 84.0





#73

Bromobenzene

Concen: 19.500 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

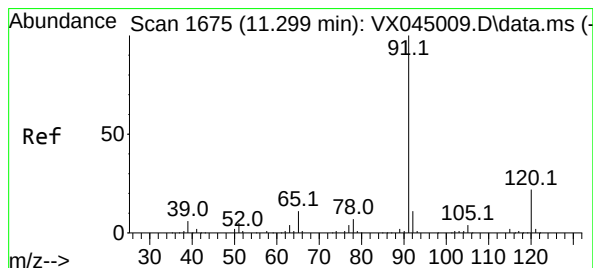
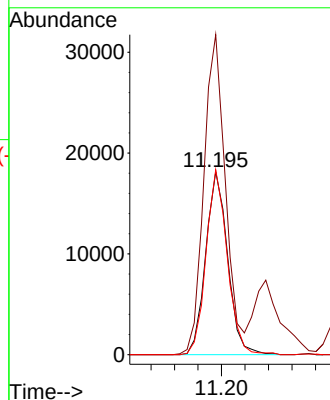
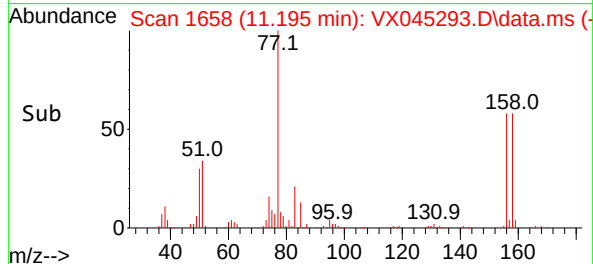
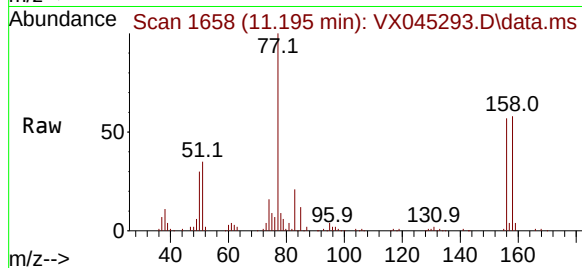
Tgt Ion:156 Resp: 23609

Ion Ratio Lower Upper

156 100

77 171.9 0.0 347.2

158 97.4 0.0 197.6



#74

n-propylbenzene

Concen: 19.018 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. -0.000 min

Lab File: VX045293.D

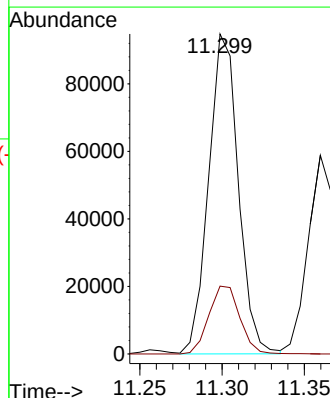
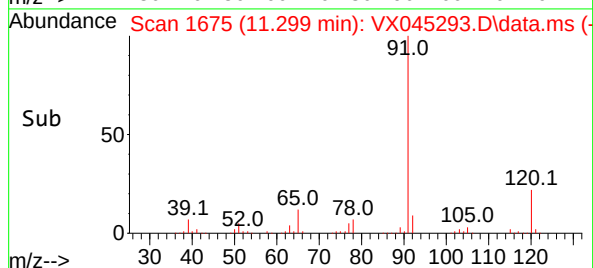
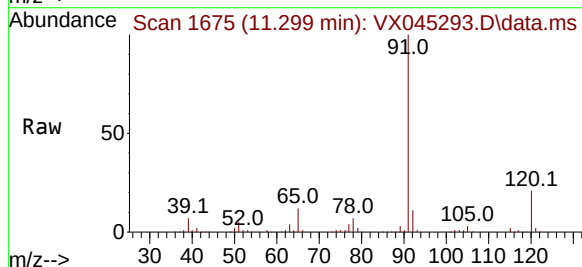
Acq: 14 Mar 2025 15:22

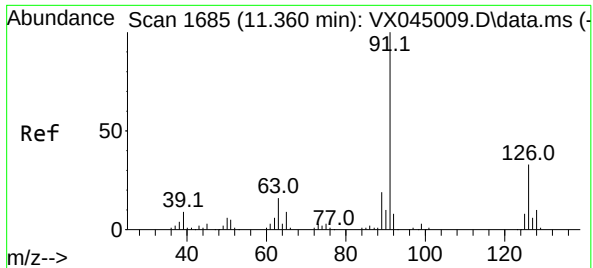
Tgt Ion: 91 Resp: 119027

Ion Ratio Lower Upper

91 100

120 22.1 0.0 44.2

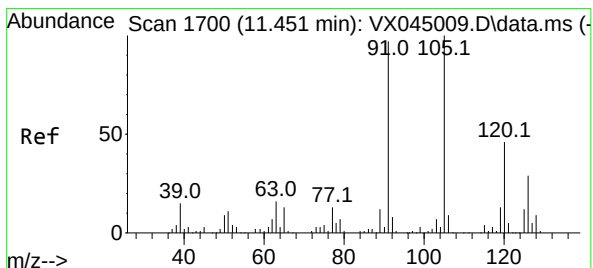
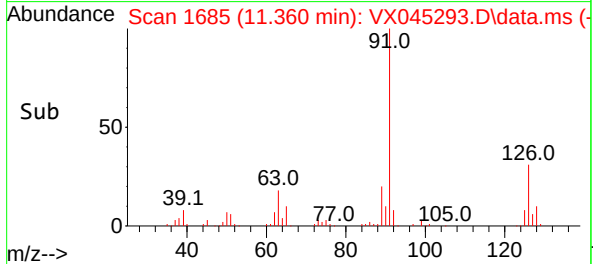
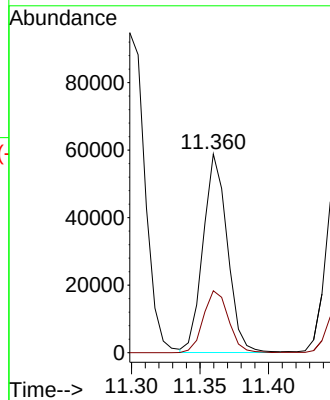
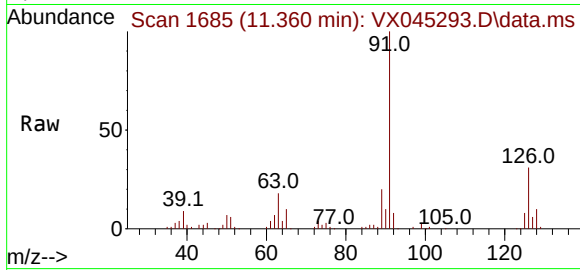




#75  
2-Chlorotoluene  
Concen: 19.171 ug/l  
RT: 11.360 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

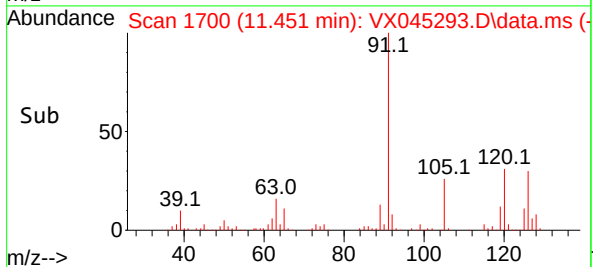
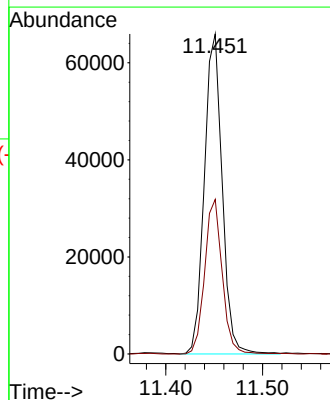
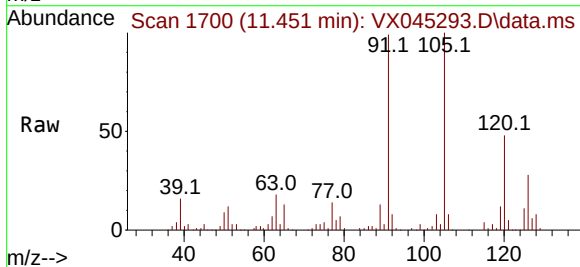
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

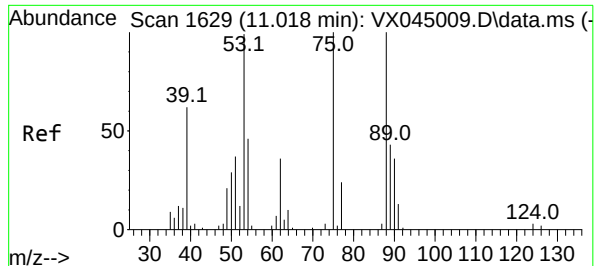
Tgt Ion: 91 Resp: 72536  
Ion Ratio Lower Upper  
91 100  
126 32.2 0.0 65.4



#76  
1,3,5-Trimethylbenzene  
Concen: 19.546 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 105 Resp: 84806  
Ion Ratio Lower Upper  
105 100  
120 47.4 0.0 94.4

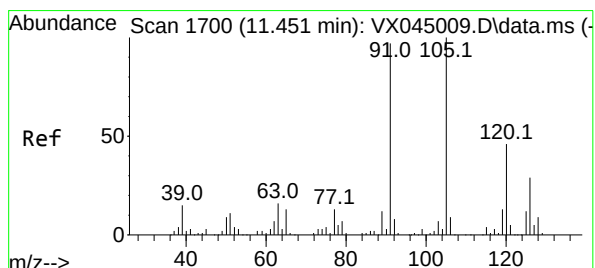
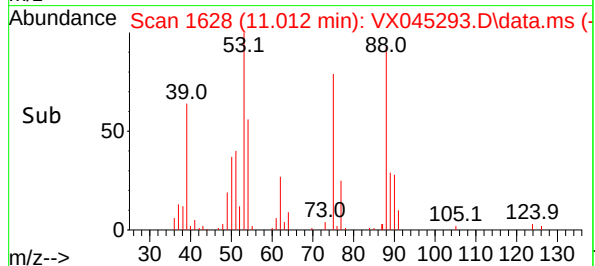
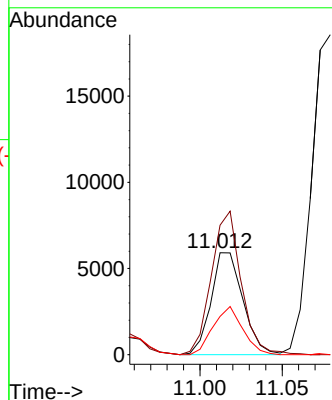
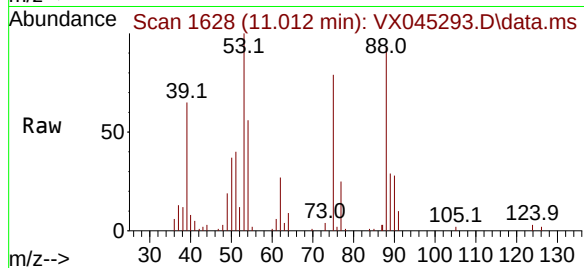




#77  
t-1,4-Dichloro-2-butene  
Concen: 16.700 ug/l  
RT: 11.012 min Scan# 1629  
Delta R.T. -0.006 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

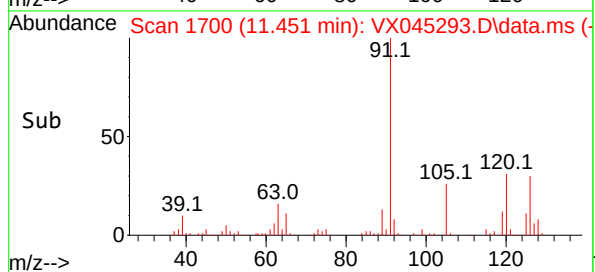
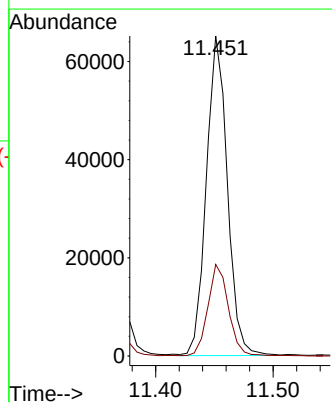
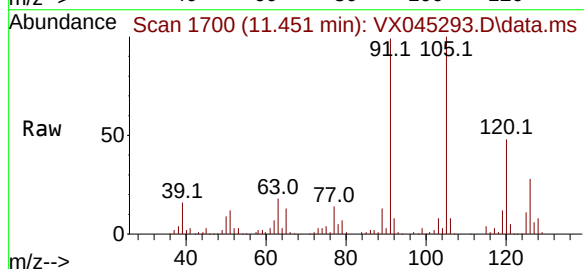
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

Tgt Ion: 75 Resp: 7992  
Ion Ratio Lower Upper  
75 100  
53 126.9 49.8 149.4  
89 37.4 21.4 64.2

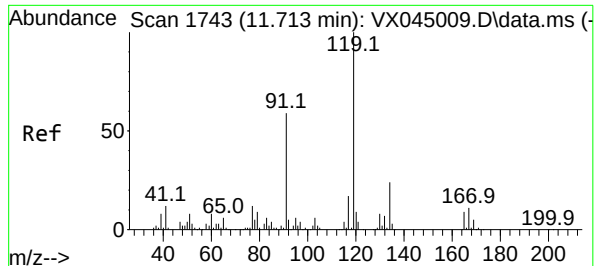


#78  
4-Chlorotoluene  
Concen: 19.191 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

Tgt Ion: 91 Resp: 80945  
Ion Ratio Lower Upper  
91 100  
126 27.6 0.0 58.0







#79

tert-butylbenzene

Concen: 19.337 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

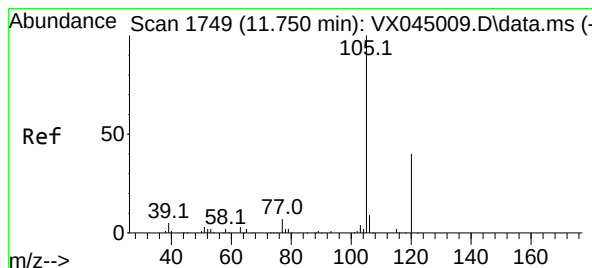
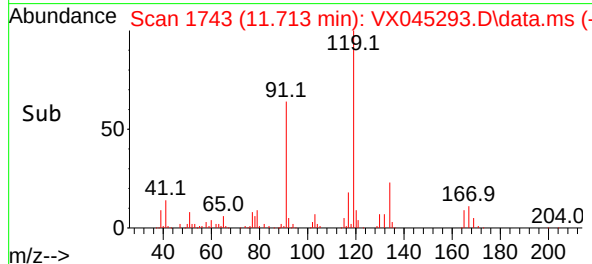
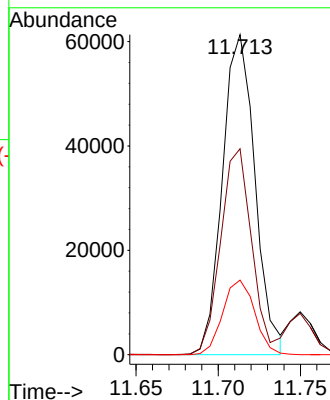
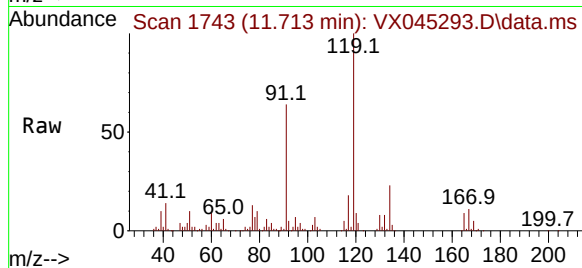
Tgt Ion:119 Resp: 84533

Ion Ratio Lower Upper

119 100

91 60.7 0.0 120.6

134 22.9 0.0 48.2



#80

1,2,4-Trimethylbenzene

Concen: 19.087 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX045293.D

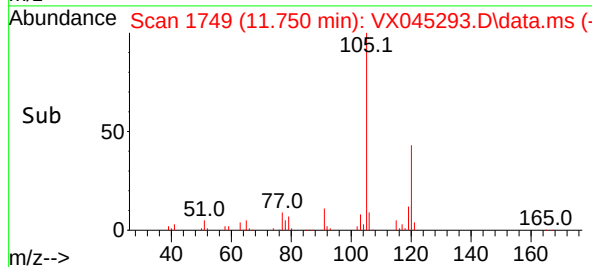
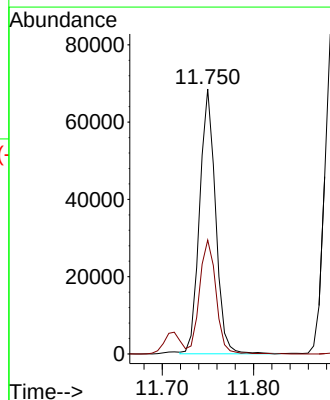
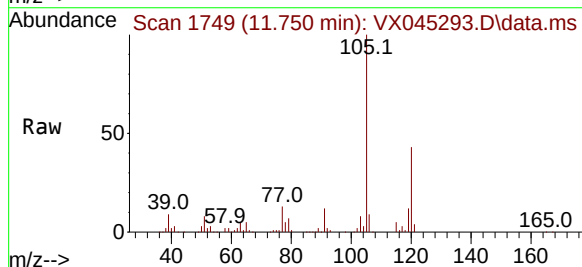
Acq: 14 Mar 2025 15:22

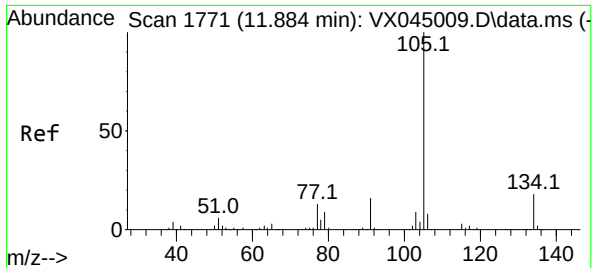
Tgt Ion:105 Resp: 82957

Ion Ratio Lower Upper

105 100

120 44.4 0.0 88.4

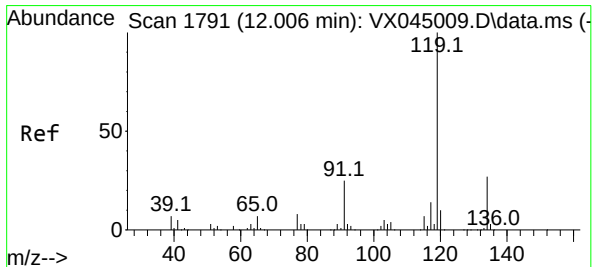
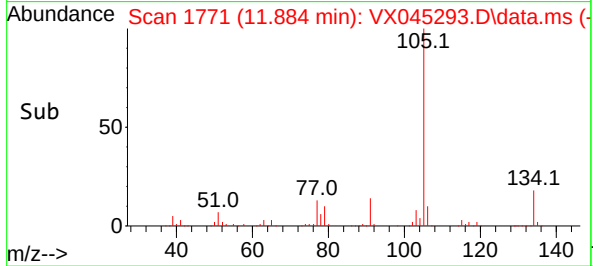
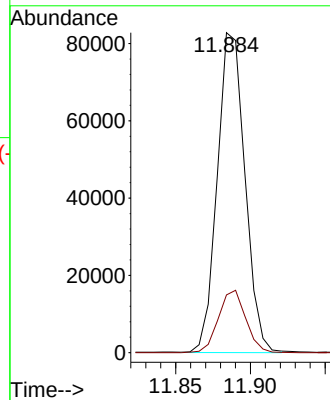
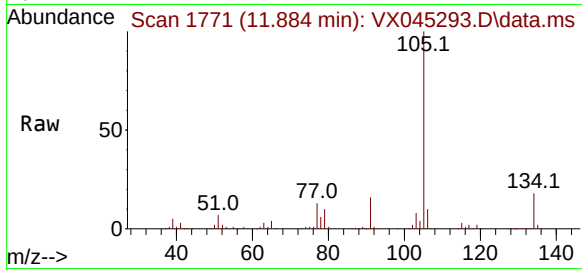




#81  
 sec-Butylbenzene  
 Concen: 19.468 ug/l  
 RT: 11.884 min Scan# 1771  
 Delta R.T. -0.000 min  
 Lab File: VX045293.D  
 Acq: 14 Mar 2025 15:22

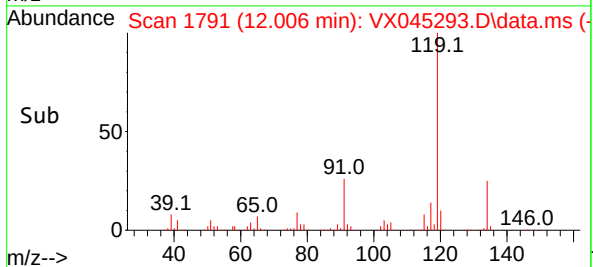
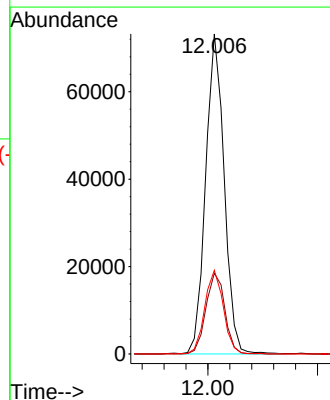
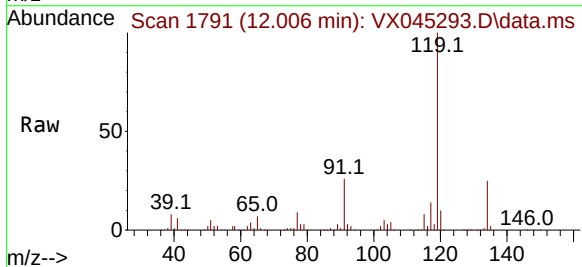
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0314WBSD01

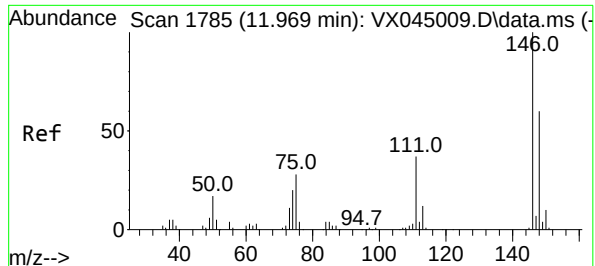
Tgt Ion:105 Resp: 106811  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 0.0 39.0



#82  
 p-Isopropyltoluene  
 Concen: 19.340 ug/l  
 RT: 12.006 min Scan# 1791  
 Delta R.T. -0.000 min  
 Lab File: VX045293.D  
 Acq: 14 Mar 2025 15:22

Tgt Ion:119 Resp: 85974  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 0.0 52.6  
 91 26.0 0.0 51.0





#83

1,3-Dichlorobenzene

Concen: 18.492 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

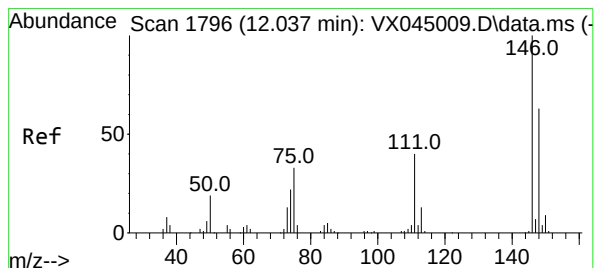
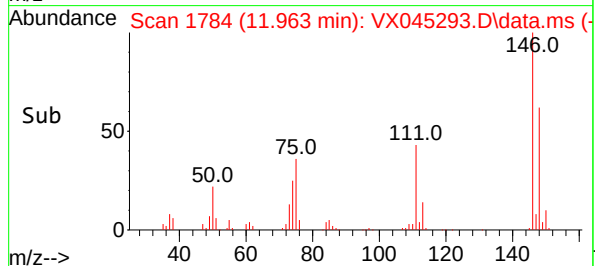
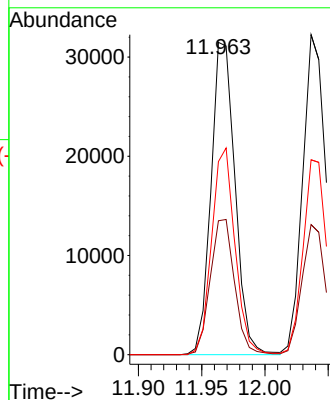
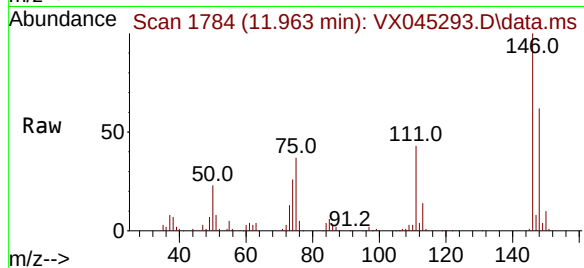
Tgt Ion:146 Resp: 41657

Ion Ratio Lower Upper

146 100

111 43.1 20.2 60.5

148 64.4 31.2 93.6



#84

1,4-Dichlorobenzene

Concen: 18.890 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

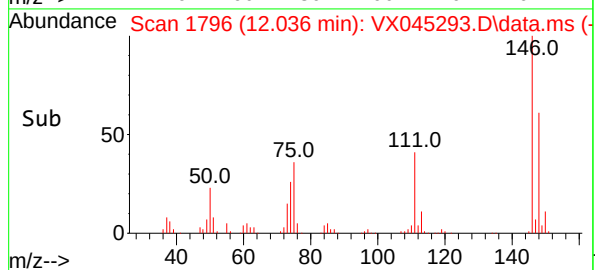
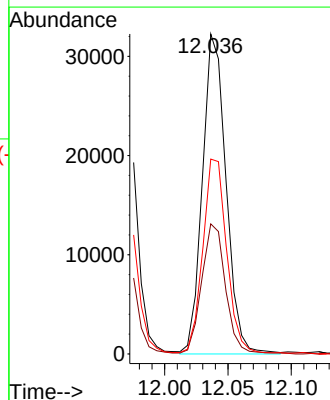
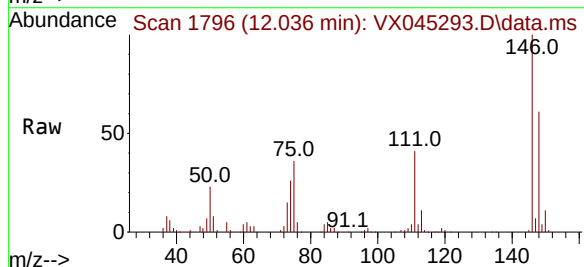
Tgt Ion:146 Resp: 41957

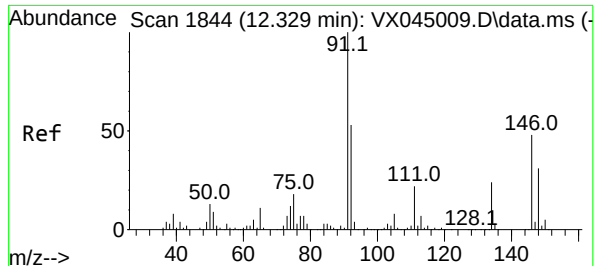
Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.2

148 61.9 31.8 95.4





#85

n-Butylbenzene

Concen: 18.675 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

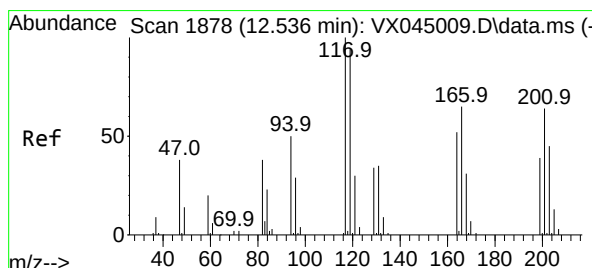
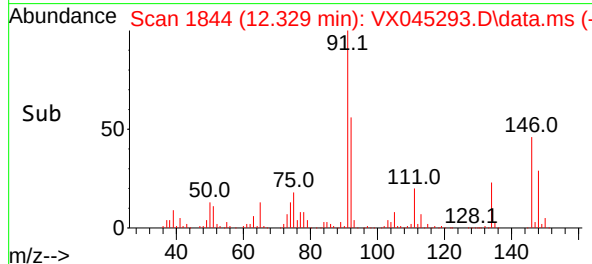
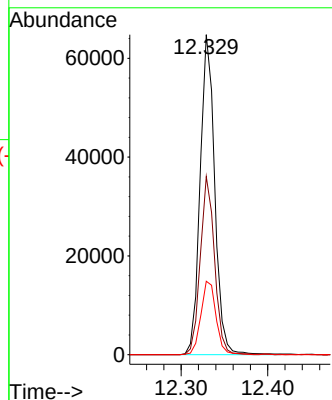
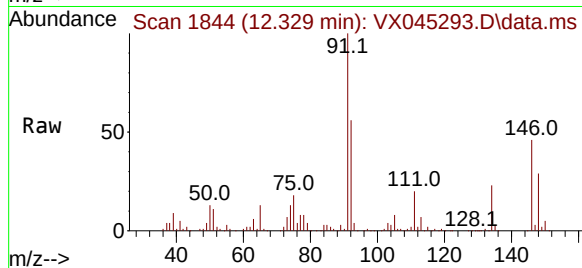
Tgt Ion: 91 Resp: 75810

Ion Ratio Lower Upper

91 100

92 54.5 0.0 105.2

134 23.9 0.0 49.4



#86

Hexachloroethane

Concen: 18.178 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045293.D

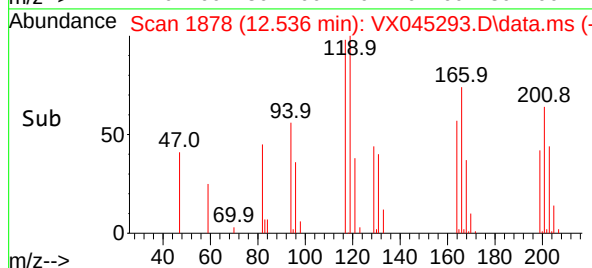
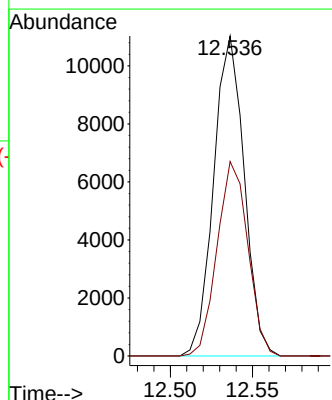
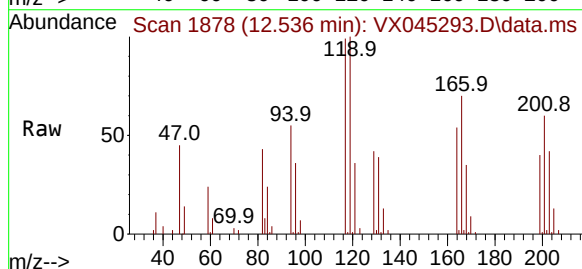
Acq: 14 Mar 2025 15:22

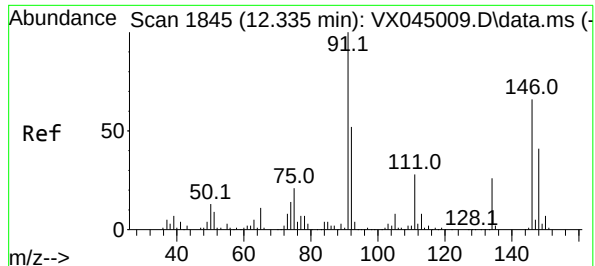
Tgt Ion: 117 Resp: 14252

Ion Ratio Lower Upper

117 100

201 61.2 32.6 97.7





#87

1,2-Dichlorobenzene

Concen: 19.299 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

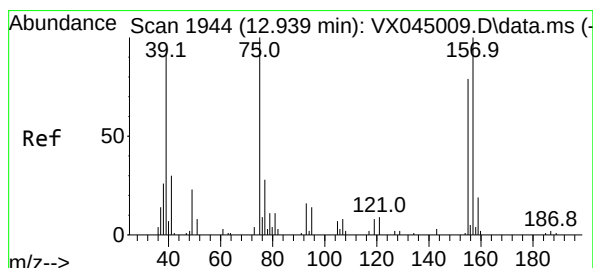
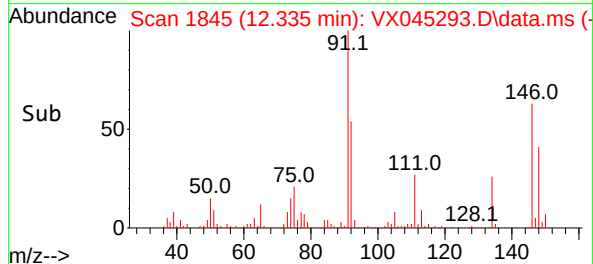
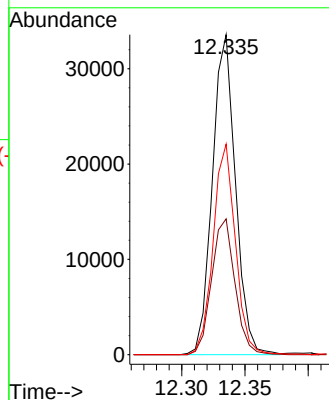
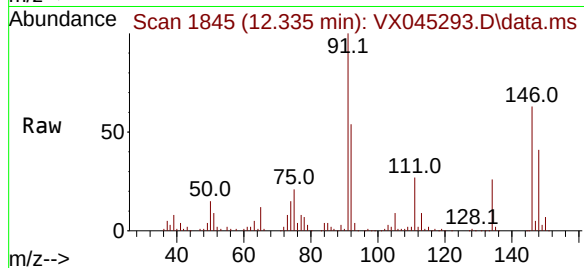
Tgt Ion:146 Resp: 42657

Ion Ratio Lower Upper

146 100

111 42.9 21.7 65.1

148 63.5 31.8 95.4



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.460 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

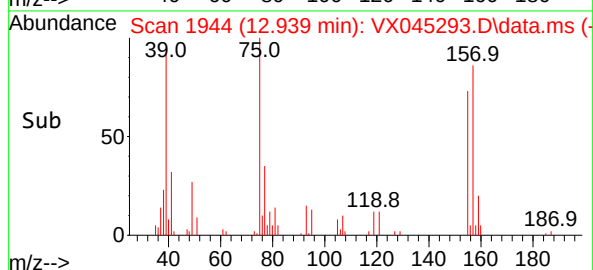
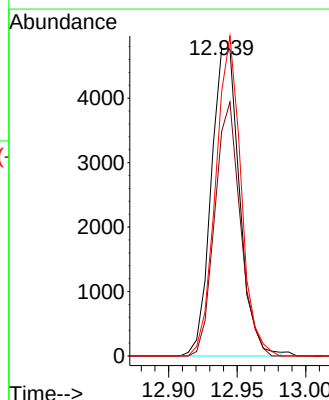
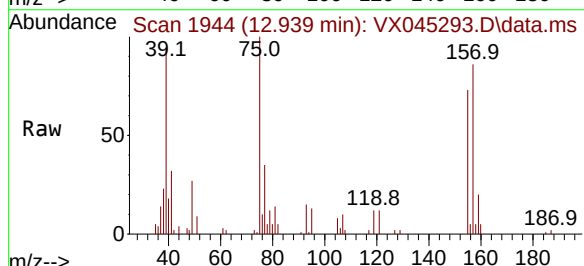
Tgt Ion: 75 Resp: 6851

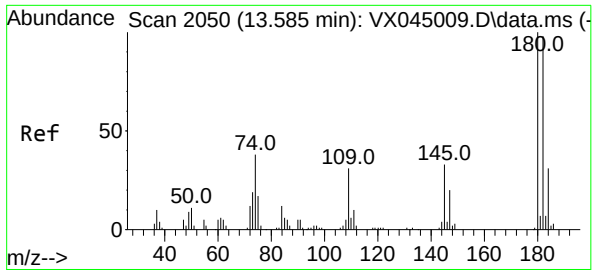
Ion Ratio Lower Upper

75 100

155 74.6 66.2 99.4

157 92.9 81.4 122.2





#89

1,2,4-Trichlorobenzene

Concen: 17.525 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

Instrument :

MSVOA\_X

ClientSampleId :

VX0314WBSD01

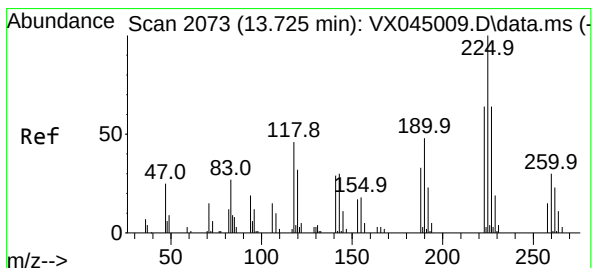
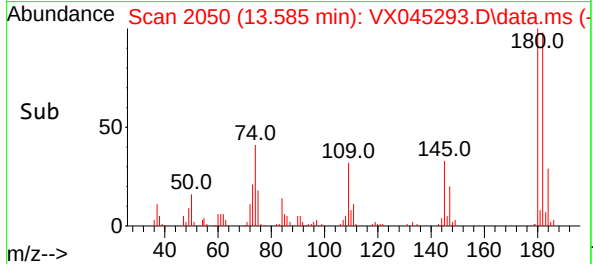
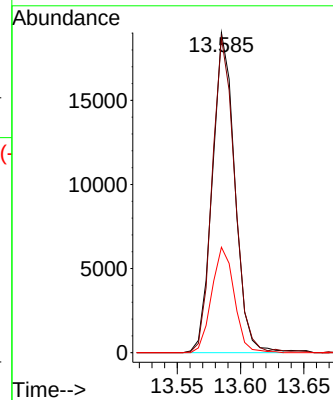
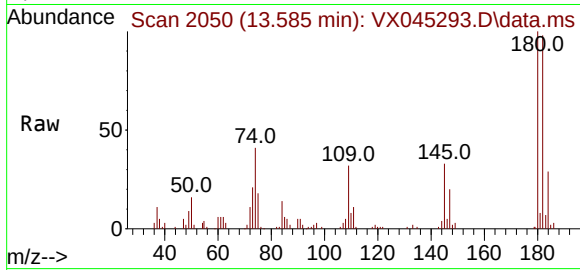
Tgt Ion:180 Resp: 23476

Ion Ratio Lower Upper

180 100

182 98.0 77.7 116.5

145 33.1 25.8 38.6



#90

Hexachlorobutadiene

Concen: 19.762 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX045293.D

Acq: 14 Mar 2025 15:22

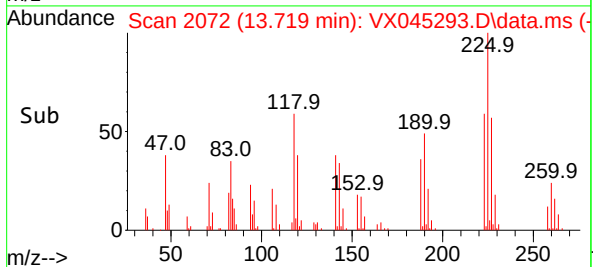
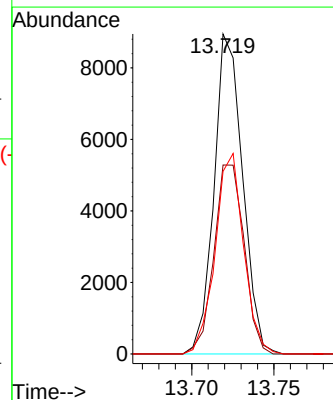
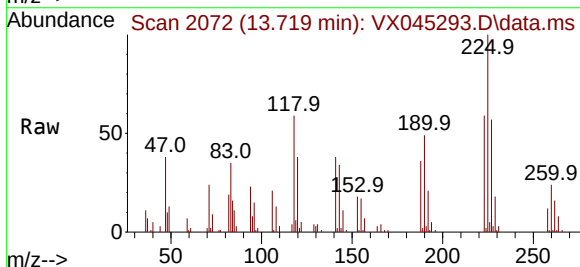
Tgt Ion:225 Resp: 10796

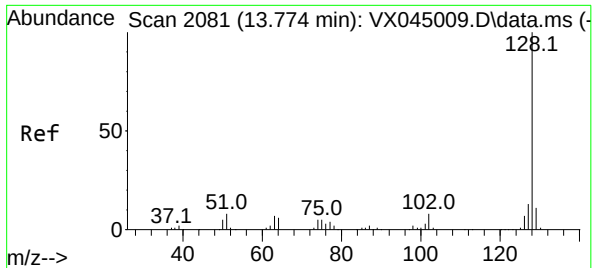
Ion Ratio Lower Upper

225 100

223 62.6 0.0 123.4

227 62.4 0.0 127.4

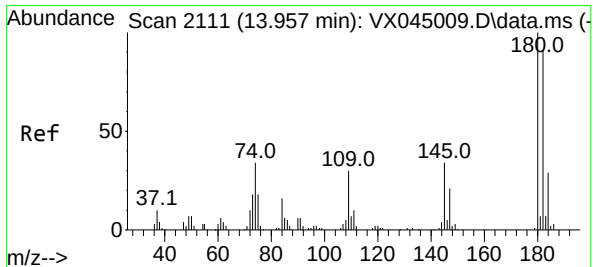
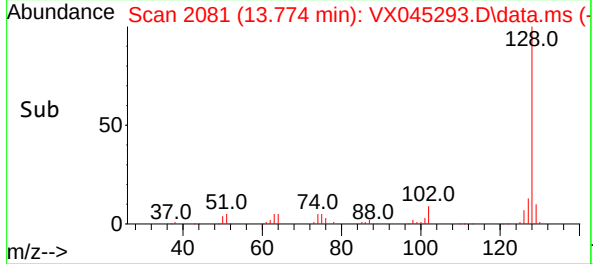
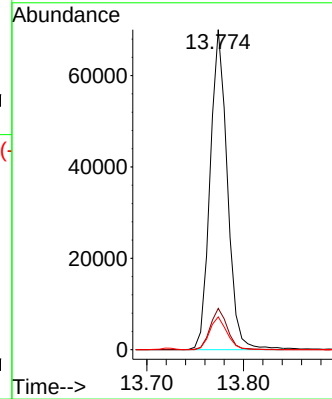
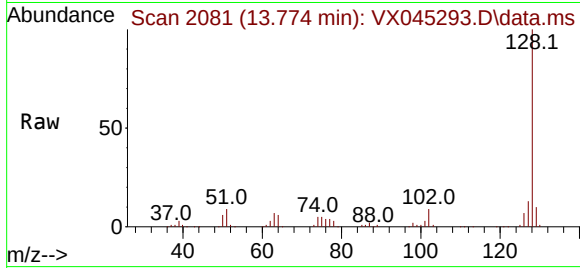




#91  
Naphthalene  
Concen: 18.439 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

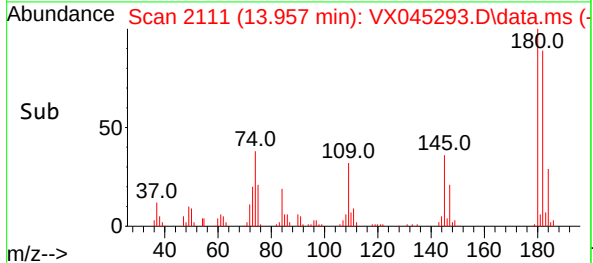
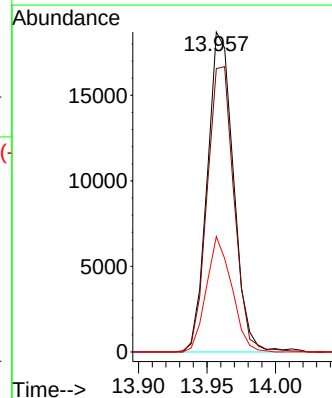
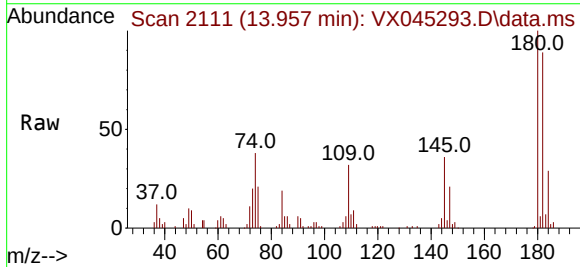
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0314WBSD01

| Tgt Ion | 128   | 127  | 129  |
|---------|-------|------|------|
| Resp:   | 87097 |      |      |
| Ratio   | 100   | 12.8 | 10.3 |
| Lower   |       | 10.5 | 8.7  |
| Upper   |       | 15.7 | 13.1 |



#92  
1,2,3-Trichlorobenzene  
Concen: 17.985 ug/l  
RT: 13.957 min Scan# 2111  
Delta R.T. -0.000 min  
Lab File: VX045293.D  
Acq: 14 Mar 2025 15:22

| Tgt Ion | 180   | 182   | 145  |
|---------|-------|-------|------|
| Resp:   | 24804 |       |      |
| Ratio   | 100   | 91.8  | 35.1 |
| Lower   |       | 0.0   | 0.0  |
| Upper   |       | 186.6 | 68.4 |



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VX022125 | Instrument | MSVOA_x |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDIC005   | VX045008.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:07 AM | MMDadoda      | 2/24/2025 1:32:23 PM | Peak Integrated by Software |
| VSTDIC005   | VX045008.D | Methacrylonitrile      | JOHN      | 2/24/2025 9:45:07 AM | MMDadoda      | 2/24/2025 1:32:23 PM | Peak Integrated by Software |
| VSTDIC005   | VX045008.D | tert-Butyl Alcohol     | JOHN      | 2/24/2025 9:45:07 AM | MMDadoda      | 2/24/2025 1:32:23 PM | Peak Integrated by Software |
| VSTDICCC020 | VX045009.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:15 AM | MMDadoda      | 2/24/2025 1:32:25 PM | Peak Integrated by Software |
| VSTDIC050   | VX045010.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:26 AM | MMDadoda      | 2/24/2025 1:32:38 PM | Peak Integrated by Software |
| VSTDIC100   | VX045011.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:31 AM | MMDadoda      | 2/24/2025 1:32:41 PM | Peak Integrated by Software |
| VSTDIC150   | VX045012.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:36 AM | MMDadoda      | 2/24/2025 1:32:41 PM | Peak Integrated by Software |
| VSTDIC150   | VX045012.D | tert-Butyl Alcohol     | JOHN      | 2/24/2025 9:45:36 AM | MMDadoda      | 2/24/2025 1:32:41 PM | Peak Integrated by Software |
| VSTDICV020  | VX045014.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:45:41 AM | MMDadoda      | 2/24/2025 1:32:43 PM | Peak Integrated by Software |
| VSTDCCC020  | VX045020.D | 1,2,3-Trichloropropane | JOHN      | 2/24/2025 9:46:10 AM | MMDadoda      | 2/24/2025 1:32:55 PM | Peak Integrated by Software |





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

## Manual Integration Report

Sequence:

VX031425

Instrument

MSVOA\_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX022125**

|                          |                                              |                   |                                    |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Review By                | John Carlone                                 | Review On         | 2/24/2025 9:46:31 AM               |
| Supervise By             | Maresh Dadoda                                | Supervise On      | 2/24/2025 1:33:06 PM               |
| SubDirectory             | VX022125                                     | HP Acquire Method | HP Processing Method 624X022125W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                             |                   |                                    |
| Tune/Reschk              | VP133095                                     |                   |                                    |
| Initial Calibration Stds | VP133103,VP133104,VP133105,VP133106,VP133107 |                   |                                    |
| CCC                      | VP133096,VP133109,VP133110                   |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP133108                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

| Sr# | SampleId        | Data File Name | Date-Time         | Operator | Status |
|-----|-----------------|----------------|-------------------|----------|--------|
| 1   | BFB             | VX045007.D     | 21 Feb 2025 09:31 | JC/MD    | Ok     |
| 2   | VSTDIC005       | VX045008.D     | 21 Feb 2025 09:58 | JC/MD    | Ok,M   |
| 3   | VSTDICCC020     | VX045009.D     | 21 Feb 2025 10:21 | JC/MD    | Ok,M   |
| 4   | VSTDIC050       | VX045010.D     | 21 Feb 2025 10:44 | JC/MD    | Ok,M   |
| 5   | VSTDIC100       | VX045011.D     | 21 Feb 2025 11:07 | JC/MD    | Ok,M   |
| 6   | VSTDIC150       | VX045012.D     | 21 Feb 2025 11:29 | JC/MD    | Ok,M   |
| 7   | IBLK            | VX045013.D     | 21 Feb 2025 11:52 | JC/MD    | Ok     |
| 8   | VSTDICV020      | VX045014.D     | 21 Feb 2025 13:09 | JC/MD    | Ok,M   |
| 9   | VX0221WBS01     | VX045015.D     | 21 Feb 2025 13:41 | JC/MD    | Ok,M   |
| 10  | VX0221WBSD01    | VX045016.D     | 21 Feb 2025 14:03 | JC/MD    | Ok,M   |
| 11  | VX0221WBL01     | VX045017.D     | 21 Feb 2025 14:39 | JC/MD    | Ok     |
| 12  | Q1168-07 2.5PPB | VX045018.D     | 21 Feb 2025 15:12 | JC/MD    | Ok,M   |
| 13  | Q1168-08 5.0PPB | VX045019.D     | 21 Feb 2025 15:38 | JC/MD    | Ok,M   |
| 14  | VSTDCCC020      | VX045020.D     | 21 Feb 2025 16:05 | JC/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QCBatch ID # VX031425**

| Review By                                                                                          |                   | Review On         |                                    |
|----------------------------------------------------------------------------------------------------|-------------------|-------------------|------------------------------------|
| Supervise By                                                                                       |                   | Supervise On      |                                    |
| SubDirectory                                                                                       | VX031425          | HP Acquire Method | HP Processing Method 624X022125W.M |
| STD. NAME                                                                                          | STD REF.#         |                   |                                    |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP133291          |                   |                                    |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP133292,VP133293 |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VX045284.D     | 14 Mar 2025 09:28 | JC/MD    | Ok     |
| 2   | VSTDCCC020   | VX045285.D     | 14 Mar 2025 10:17 | JC/MD    | Ok,NR  |
| 3   | VX0314WBS01  | VX045286.D     | 14 Mar 2025 10:50 | JC/MD    | Ok,NR  |
| 4   | VX0314WBSD01 | VX045287.D     | 14 Mar 2025 11:17 | JC/MD    | Not Ok |
| 5   | VX0314WBL01  | VX045288.D     | 14 Mar 2025 11:40 | JC/MD    | Ok     |
| 6   | Q1502-02     | VX045289.D     | 14 Mar 2025 12:09 | JC/MD    | Ok     |
| 7   | IBLK         | VX045290.D     | 14 Mar 2025 12:32 | JC/MD    | Ok     |
| 8   | Q1495-01     | VX045291.D     | 14 Mar 2025 12:59 | JC/MD    | Ok,NR  |
| 9   | Q1495-02     | VX045292.D     | 14 Mar 2025 13:22 | JC/MD    | Ok,NR  |
| 10  | VX0314WBSD01 | VX045293.D     | 14 Mar 2025 15:22 | JC/MD    | Ok,NR  |
| 11  | Q1583-01     | VX045294.D     | 14 Mar 2025 16:18 | JC/MD    | Not Ok |
| 12  | VSTDCCC020   | VX045295.D     | 14 Mar 2025 16:41 | JC/MD    | Ok,NR  |

M : Manual Integration

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX022125**

|                          |                                              |                   |                                    |
|--------------------------|----------------------------------------------|-------------------|------------------------------------|
| Review By                | John Carlone                                 | Review On         | 2/24/2025 9:46:31 AM               |
| Supervise By             | Maresh Dadoda                                | Supervise On      | 2/24/2025 1:33:06 PM               |
| SubDirectory             | VX022125                                     | HP Acquire Method | HP Processing Method 624X022125W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                             |                   |                                    |
| Tune/Reschk              | VP133095                                     |                   |                                    |
| Initial Calibration Stds | VP133103,VP133104,VP133105,VP133106,VP133107 |                   |                                    |
| CCC                      | VP133096,VP133109,VP133110                   |                   |                                    |
| Internal Standard/PEM    |                                              |                   |                                    |
| ICV/I.BLK                | VP133108                                     |                   |                                    |
| Surrogate Standard       |                                              |                   |                                    |
| MS/MSD Standard          |                                              |                   |                                    |
| LCS Standard             |                                              |                   |                                    |

| Sr# | SampleID        | ClientID           | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-----------------|--------------------|----------------|-------------------|---------|----------|--------|
| 1   | BFB             | BFB                | VX045007.D     | 21 Feb 2025 09:31 |         | JC/MD    | Ok     |
| 2   | VSTDIC005       | VSTDIC005          | VX045008.D     | 21 Feb 2025 09:58 |         | JC/MD    | Ok,M   |
| 3   | VSTDICCC020     | VSTDICCC020        | VX045009.D     | 21 Feb 2025 10:21 |         | JC/MD    | Ok,M   |
| 4   | VSTDIC050       | VSTDIC050          | VX045010.D     | 21 Feb 2025 10:44 |         | JC/MD    | Ok,M   |
| 5   | VSTDIC100       | VSTDIC100          | VX045011.D     | 21 Feb 2025 11:07 |         | JC/MD    | Ok,M   |
| 6   | VSTDIC150       | VSTDIC150          | VX045012.D     | 21 Feb 2025 11:29 |         | JC/MD    | Ok,M   |
| 7   | IBLK            | IBLK               | VX045013.D     | 21 Feb 2025 11:52 |         | JC/MD    | Ok     |
| 8   | VSTDICV020      | ICVVX022125        | VX045014.D     | 21 Feb 2025 13:09 |         | JC/MD    | Ok,M   |
| 9   | VX0221WBS01     | VX0221WBS01        | VX045015.D     | 21 Feb 2025 13:41 |         | JC/MD    | Ok,M   |
| 10  | VX0221WBSD01    | VX0221WBSD01       | VX045016.D     | 21 Feb 2025 14:03 |         | JC/MD    | Ok,M   |
| 11  | VX0221WBL01     | VX0221WBL01        | VX045017.D     | 21 Feb 2025 14:39 |         | JC/MD    | Ok     |
| 12  | Q1168-07 2.5PPB | LOD-MDL-WATER-01-0 | VX045018.D     | 21 Feb 2025 15:12 |         | JC/MD    | Ok,M   |
| 13  | Q1168-08 5.0PPB | LOQ-WATER-02-QT1-2 | VX045019.D     | 21 Feb 2025 15:38 |         | JC/MD    | Ok,M   |
| 14  | VSTDCCC020      | VSTDCCC020EC       | VX045020.D     | 21 Feb 2025 16:05 |         | JC/MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX031425**

|                                                                                                    |                      |
|----------------------------------------------------------------------------------------------------|----------------------|
| Review By                                                                                          | Review On            |
| Supervise By                                                                                       | Supervise On         |
| SubDirectory                                                                                       | VX031425             |
| HP Acquire Method                                                                                  | HP Processing Method |
|                                                                                                    | 624X022125W.M        |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>     |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP133291             |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP133292,VP133293    |

| Sr# | SampleID     | ClientID            | Data File Name | Date-Time         | Comment           | Operator | Status |
|-----|--------------|---------------------|----------------|-------------------|-------------------|----------|--------|
| 1   | BFB          | BFB                 | VX045284.D     | 14 Mar 2025 09:28 |                   | JC/MD    | Ok     |
| 2   | VSTDCCC020   | VSTDCCC020          | VX045285.D     | 14 Mar 2025 10:17 |                   | JC/MD    | Ok,NR  |
| 3   | VX0314WBS01  | VX0314WBS01         | VX045286.D     | 14 Mar 2025 10:50 |                   | JC/MD    | Ok,NR  |
| 4   | VX0314WBSD01 | VX0314WBSD01        | VX045287.D     | 14 Mar 2025 11:17 | Surrogate fail    | JC/MD    | Not Ok |
| 5   | VX0314WBL01  | VX0314WBL01         | VX045288.D     | 14 Mar 2025 11:40 |                   | JC/MD    | Ok     |
| 6   | Q1502-02     | PT-VOA-WP           | VX045289.D     | 14 Mar 2025 12:09 |                   | JC/MD    | Ok     |
| 7   | IBLK         | IBLK                | VX045290.D     | 14 Mar 2025 12:32 |                   | JC/MD    | Ok     |
| 8   | Q1495-01     | 001-WILLETS-PT-BLVD | VX045291.D     | 14 Mar 2025 12:59 |                   | JC/MD    | Ok,NR  |
| 9   | Q1495-02     | 002-35TH-AVE(MAR)   | VX045292.D     | 14 Mar 2025 13:22 |                   | JC/MD    | Ok,NR  |
| 10  | VX0314WBSD01 | VX0314WBSD01        | VX045293.D     | 14 Mar 2025 15:22 |                   | JC/MD    | Ok,NR  |
| 11  | Q1583-01     | EFF-WASTE WATER     | VX045294.D     | 14 Mar 2025 16:18 | Need Straight Run | JC/MD    | Not Ok |
| 12  | VSTDCCC020   | VSTDCCC020EC        | VX045295.D     | 14 Mar 2025 16:41 |                   | JC/MD    | Ok,NR  |

M : Manual Integration



# SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tully Environmental Inc  
ADDRESS: 57 Seaview Bldg  
CITY: Pt Washington STATE: NY ZIP: 11050  
ATTENTION: D Derbe  
PHONE: 718 446 7000 FAX:

PROJECT NAME: Transfer Station SPDS  
PROJECT NO.: 252113 LOCATION:  
PROJECT MANAGER:  
e-mail:  
PHONE: FAX:

BILL TO: Same PO#:  
ADDRESS:  
CITY STATE: ZIP:  
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS\*  
HARDCOPY (DATA PACKAGE): DAYS\*  
EDD: DAYS\*  
\*TO BE APPROVED BY CHEMTECH  
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other  
☐ EDD FORMAT

1. Cu Pb 2. BOD 3. TSS 4. Hg 5. BTEX 6. O&G 7. Ammonia 8. 9.

PRESERVATIVES

COMMENTS

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
| 1.                       | 001 Willet Pt Blvd (mar)         | W                |                | X    | 3/5                  | 1215 |              | X             | X | X | X | X | X |   |   |   | PH 1.0   |
| 2.                       | 002 35th Ave (mar)               | W                |                | X    | 3/5                  | 1215 |              | X             | X | X | X | X | X |   |   |   | PH 1.0   |
| 3.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 4.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 5.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 6.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 7.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 8.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 9.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 10.                      |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                        |                           |                          |                                                                                                                                                                                 |
|----------------------------------------|---------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. D Derbe | DATE/TIME:<br>3/5/25      | RECEIVED BY:<br>1. _____ | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 4.6 °C<br>Comments: |
| RELINQUISHED BY SAMPLER:<br>2. _____   | DATE/TIME: 1310<br>3-5-25 | RECEIVED BY:<br>2. _____ |                                                                                                                                                                                 |
| RELINQUISHED BY SAMPLER:<br>3. _____   | DATE/TIME:                | RECEIVED BY:<br>3. _____ |                                                                                                                                                                                 |

Page \_\_\_\_ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

---

**From:** Dean Devoe <DDevoe@tullyconstruction.com>  
**Sent:** Tuesday, March 04, 2025 2:47 PM  
**To:** yazmeen@chemtech.net  
**Subject:** RE: Report Details For Project Transfer Station-SPDES-Q1316.  
**Attachments:** 20250304141331038.pdf

Hi Yazmeen - I inadvertently put March 5 as sampling date. Please correct to March 4. These are on the way. Please expedite Feb samples. Thanks Dean

---

**From:** Yazmeen Gomez <yazmeen@chemtech.net>  
**Sent:** Tuesday, February 18, 2025 2:31 PM  
**To:** Dean Devoe <DDevoe@tullyconstruction.com>  
**Subject:** RE: Report Details For Project Transfer Station-SPDES-Q1316.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon Dean,

Please see attached.

Confirmed, I will be sending out the glassware for delivery tomorrow.

**Best Regards,**



**Yazmeen Gomez**  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)   

---

**From:** Dean Devoe <[DDevoe@tullyconstruction.com](mailto:DDevoe@tullyconstruction.com)>  
**Sent:** Tuesday, February 18, 2025 2:27 PM  
**To:** Yazmeen Gomez <[yazmeen@chemtech.net](mailto:yazmeen@chemtech.net)>  
**Subject:** FW: Report Details For Project Transfer Station-SPDES-Q1316.

Good afternoon Yazmeen – please provide mercury results for Q1316. Also, please send glassware for 2 TSS. Thank you Dean

---

**From:** [CHEMTECH-Data@chemtech.net](mailto:CHEMTECH-Data@chemtech.net) <[CHEMTECH-Data@chemtech.net](mailto:CHEMTECH-Data@chemtech.net)>  
**Sent:** Tuesday, February 18, 2025 11:14 AM



To: Dean Devoe <[DDevoe@tullyconstruction.com](mailto:DDevoe@tullyconstruction.com)>; [chemworld@comcast.net](mailto:chemworld@comcast.net)

Subject: Report Details For Project Transfer Station-SPDES-Q1316.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

To Dean Devoe;

Please see the attached Report for the following project, or download the file using your login credentials from the link below.

Order ID : Q1316  
Project ID : Transfer Station-SPDES  
Download File : <https://chemtech.net/secureLogin.aspx>  
Order Date : 2/6/2025 10:57:00 AM

**CHEMTECH's Project Manager** : YAZMEEN GOMEZ , [YAZMEEN@CHEMTECH.NET](mailto:YAZMEEN@CHEMTECH.NET) , 908-357-0579 Ext :3149  
**CHEMTECH's Sales Executive** : Jordan Hedvat , [jordan@chemtech.net](mailto:jordan@chemtech.net) , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <https://chemtech.net/ClientSurvey.aspx>.

Thank you,

**Alliance Technical Group LLC.**

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

## LOGIN REPORT/SAMPLE TRANSFER

|                                                |        |                                                |                                   |
|------------------------------------------------|--------|------------------------------------------------|-----------------------------------|
| <b>Order ID :</b> Q1495                        | TULL01 | <b>Order Date :</b> 3/5/2025 1:48:00 PM        | <b>Project Mgr :</b>              |
| <b>Client Name :</b> Tully Environmental, Inc  |        | <b>Project Name :</b> Transfer Station-SPDES   | <b>Report Type :</b> Results Only |
| <b>Client Contact :</b> Dean Devoe             |        | <b>Receive DateTime :</b> 3/5/2025 12:00:00 AM | <b>EDD Type :</b> EXCEL NOCLEANUP |
| <b>Invoice Name :</b> Tully Environmental, Inc |        | <b>Purchase Order :</b> 13:10                  | <b>Hard Copy Date :</b>           |
| <b>Invoice Contact :</b> Dean Devoe            |        |                                                | <b>Date Signoff :</b>             |

| LAB ID   | CLIENT ID                | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST     | TEST GROUP | METHOD | FAX DATE     | DUE DATES |
|----------|--------------------------|--------|-------------|-------------|----------|------------|--------|--------------|-----------|
| Q1495-01 | 001-WILLETS-PT-BLVD(MAR) | Water  | 03/04/2025  | 12:15       | VOC-BTEX |            | 624.1  | 10 Bus. Days |           |
| Q1495-02 | 002-35TH-AVE(MAR)        | Water  | 03/04/2025  | 12:15       | VOC-BTEX |            | 624.1  | 10 Bus. Days |           |

Relinquished By :

Date / Time : 3-5-25 1455

Received By :

Date / Time : 03/05/25

Storage Area : VOA Refridgerator Room