

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030525\  
 Data File : VL042096.D  
 Acq On : 05 Mar 2025 10:05  
 Operator : SY/MD  
 Sample : VL0303ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0305ABL01

Quant Time: Mar 06 01:03:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 2025  
 Response via : Initial Calibration

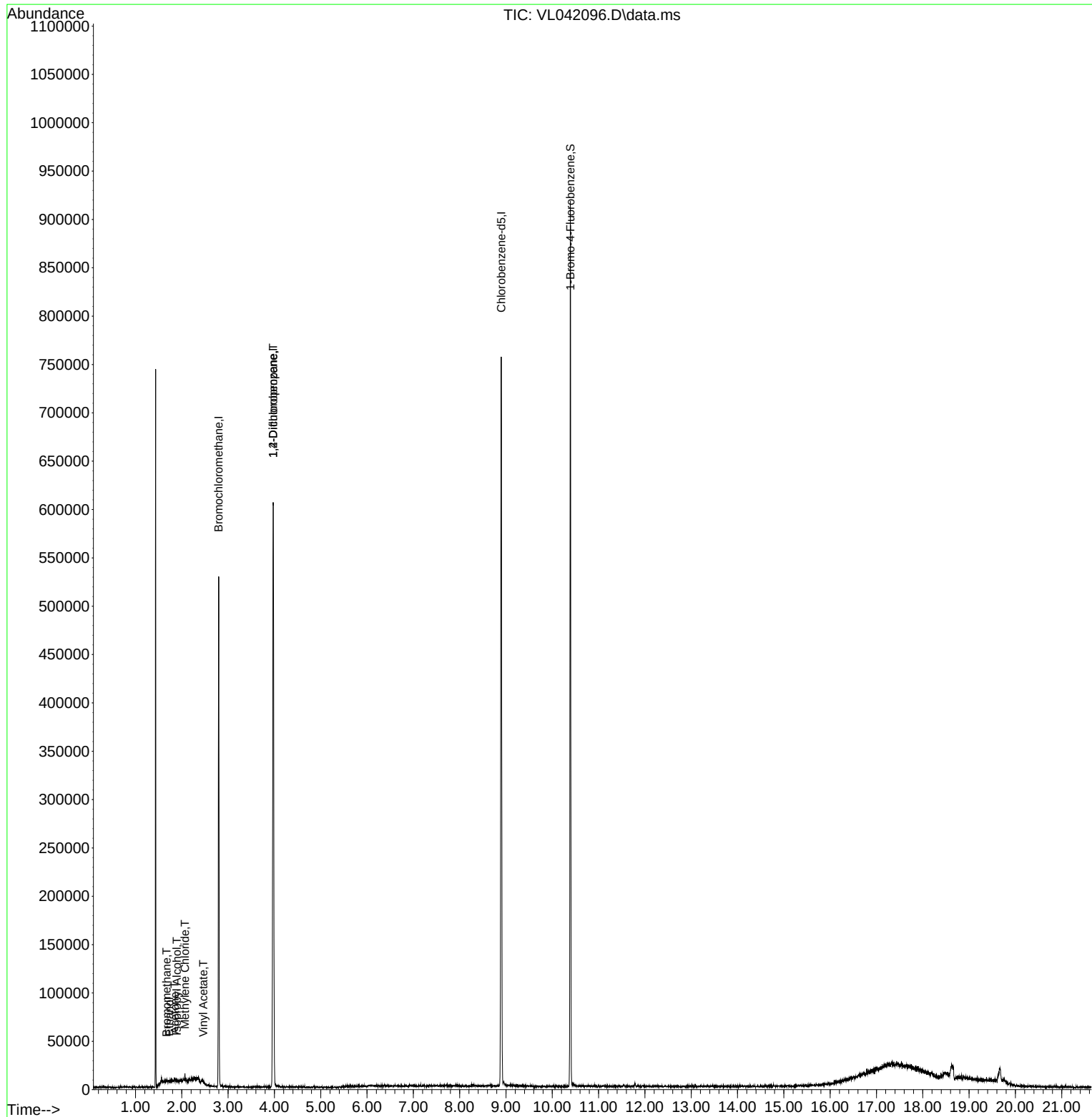
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.797  | 49    | 157535   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.972  | 114   | 359252   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.898  | 117   | 301482   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95    | 219602   | 9.468    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 94.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 6) Bromomethane             | 1.674  | 94    | 144      | 0.053    | ppbv # | 2        |
| 13) Ethanol                 | 1.732  | 45    | 203      | 0.343    | ppbv # | 33       |
| 15) Acetone                 | 1.845  | 43    | 2024     | 0.145    | ppbv # | 85       |
| 19) Isopropyl Alcohol       | 1.894  | 45    | 879      | 0.110    | ppbv # | 32       |
| 20) Methylene Chloride      | 2.069  | 84    | 1016     | 0.193    | ppbv # | 82       |
| 23) Vinyl Acetate           | 2.463  | 43    | 372      | 0.038    | ppbv # | 1        |
| 39) 1,2-Dichloropropane     | 3.972  | 63    | 93103    | 6.522    | ppbv # | 25       |
| -----                       |        |       |          |          |        |          |

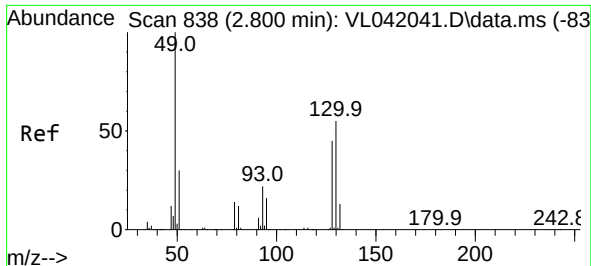
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VL0303ABL01  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0305ABL01

Quant Time: Mar 06 01:03:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

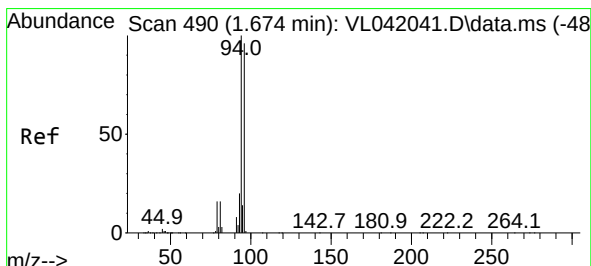
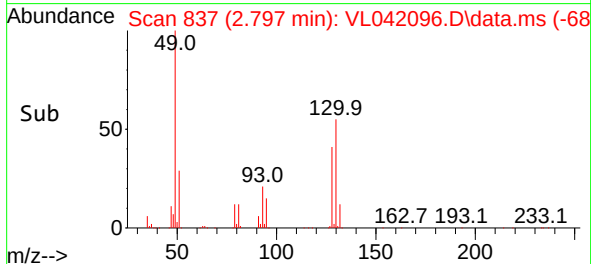
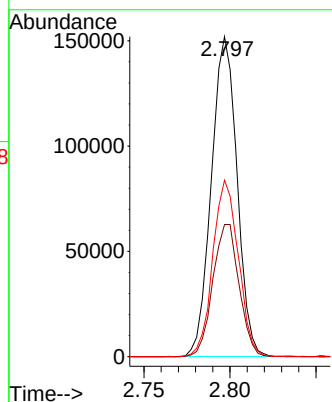
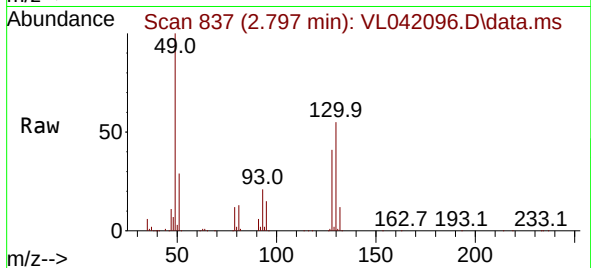




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

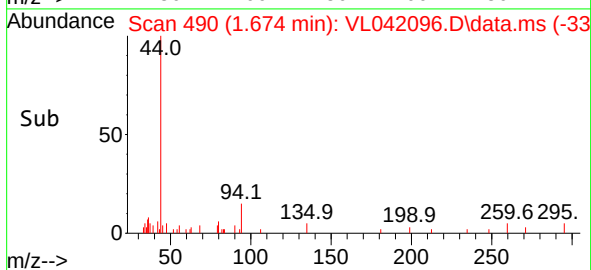
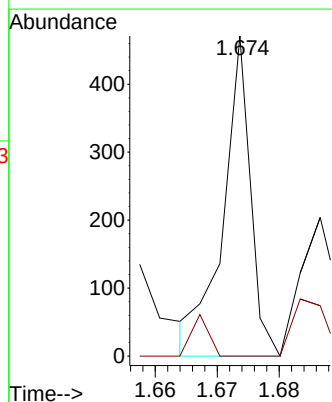
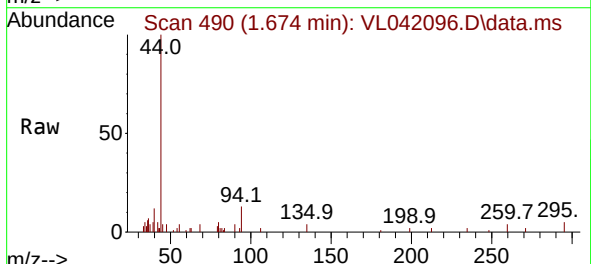
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0305ABL01

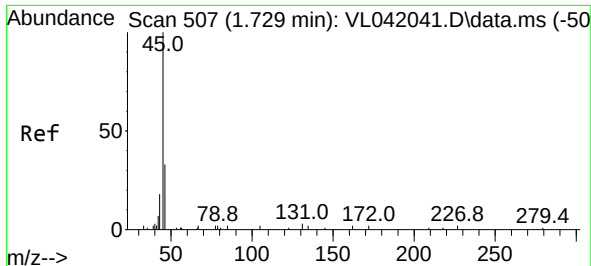
Tgt Ion: 49 Resp: 157535  
Ion Ratio Lower Upper  
49 100  
128 42.3 21.6 64.8  
130 55.0 27.8 83.4



#6  
Bromomethane  
Concen: 0.053 ppbv  
RT: 1.674 min Scan# 490  
Delta R.T. -0.000 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

Tgt Ion: 94 Resp: 144  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.5 114.7#

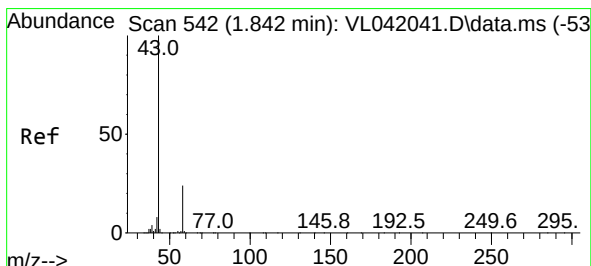
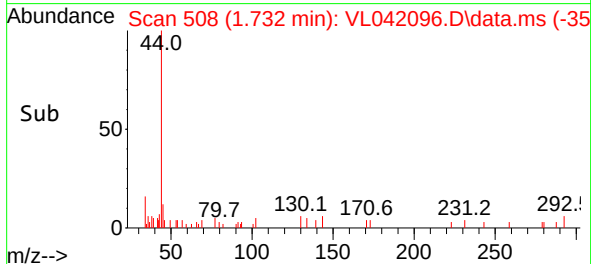
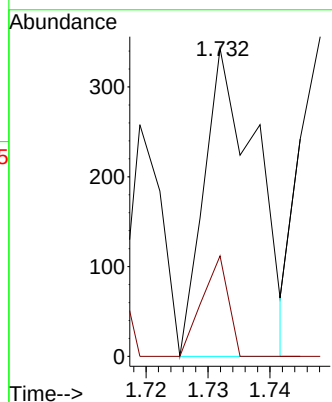
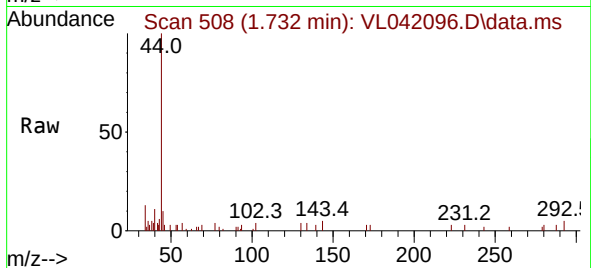




#13  
Ethanol  
Concen: 0.343 ppbv  
RT: 1.732 min Scan# 507  
Delta R.T. 0.003 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

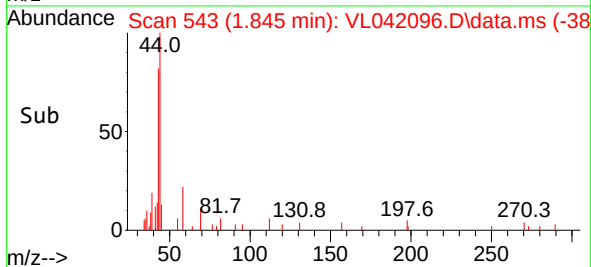
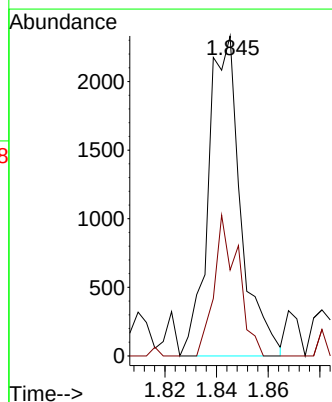
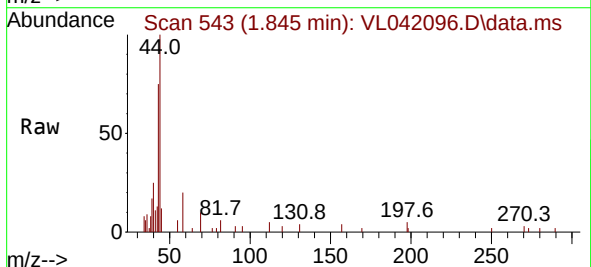
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0305ABL01

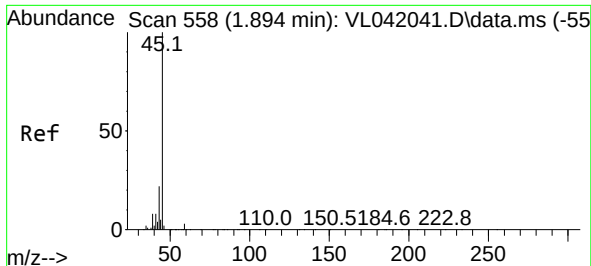
Tgt Ion: 45 Resp: 203  
Ion Ratio Lower Upper  
45 100  
46 0.0 17.1 68.3#



#15  
Acetone  
Concen: 0.145 ppbv  
RT: 1.845 min Scan# 543  
Delta R.T. 0.003 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

Tgt Ion: 43 Resp: 2024  
Ion Ratio Lower Upper  
43 100  
58 33.4 20.7 31.1#

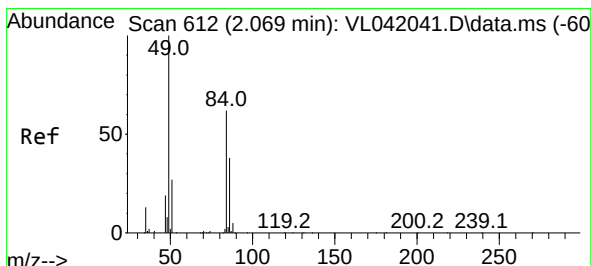
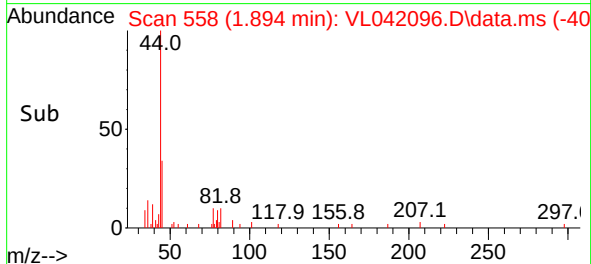
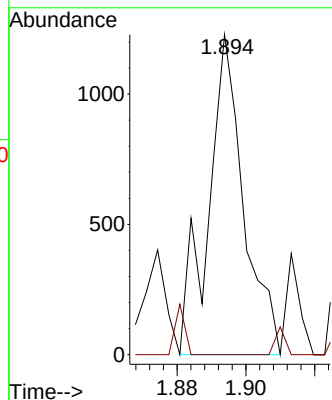
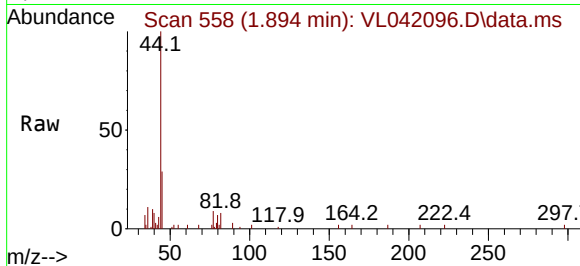




#19  
Isopropyl Alcohol  
Concen: 0.110 ppbv  
RT: 1.894 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

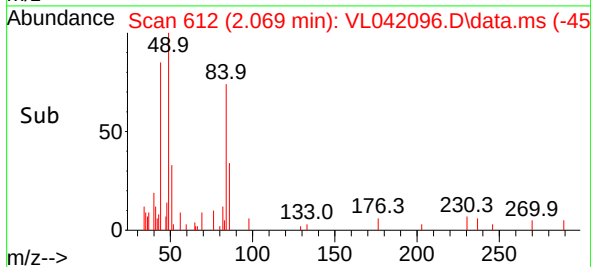
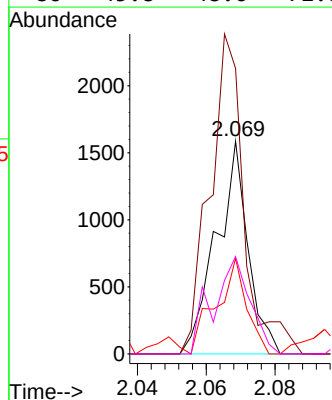
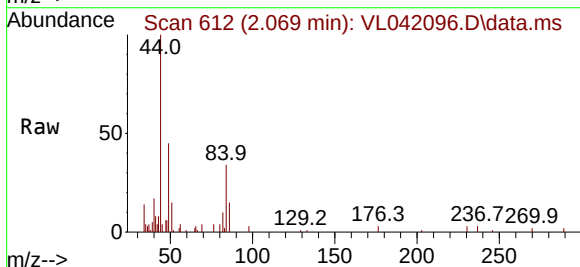
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0305ABL01

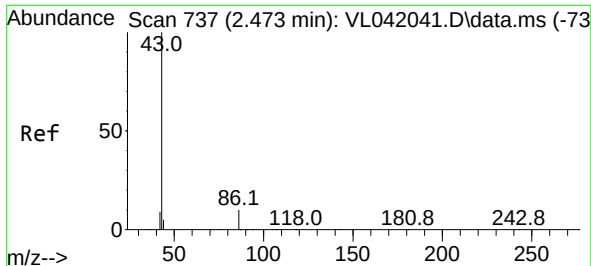
Tgt Ion: 45 Resp: 879  
Ion Ratio Lower Upper  
45 100  
58 0.0 35.3 52.9#



#20  
Methylene Chloride  
Concen: 0.193 ppbv  
RT: 2.069 min Scan# 612  
Delta R.T. -0.000 min  
Lab File: VL042096.D  
Acq: 05 Mar 2025 10:05

Tgt Ion: 84 Resp: 1016  
Ion Ratio Lower Upper  
84 100  
49 134.3 130.0 195.0  
51 48.7 37.4 56.0  
86 45.8 48.6 72.8#

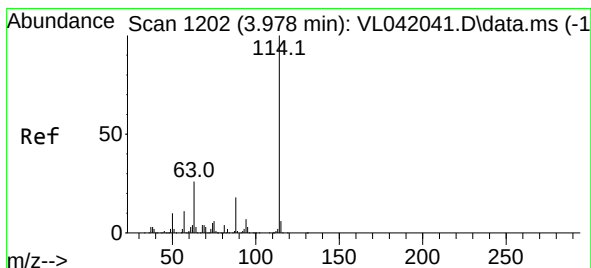
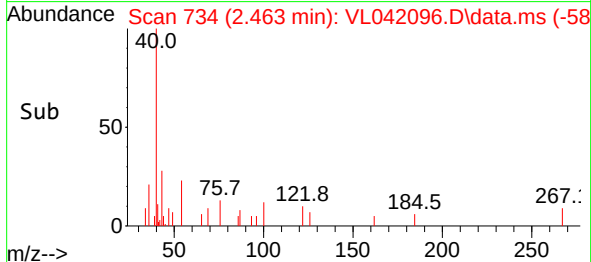
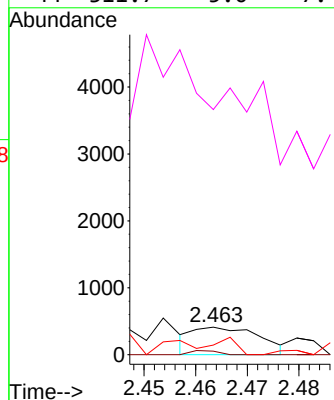
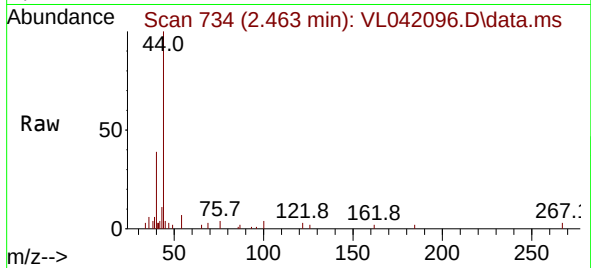




#23  
 Vinyl Acetate  
 Concen: 0.038 ppbv  
 RT: 2.463 min Scan# 71  
 Delta R.T. -0.010 min  
 Lab File: VL042096.D  
 Acq: 05 Mar 2025 10:05

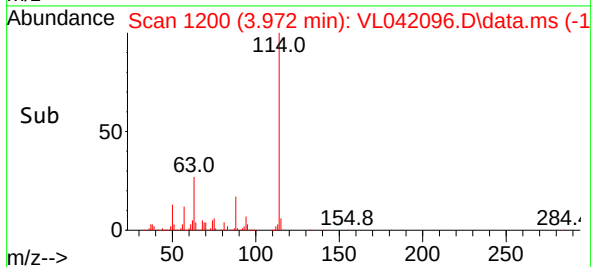
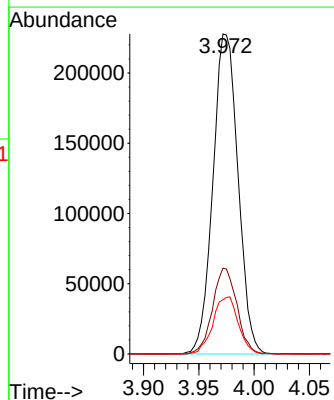
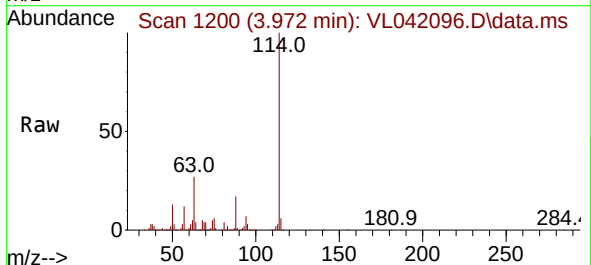
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0305ABL01

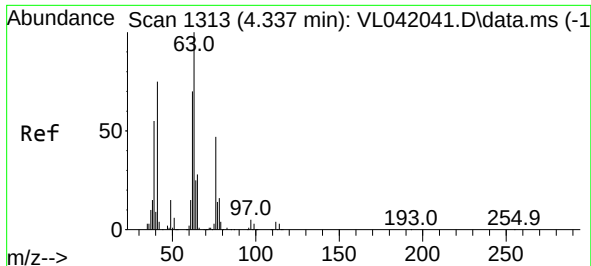
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 43 | Resp: | 372   |       |
| Ion         | Ratio | Lower | Upper |
| 43          | 100   |       |       |
| 86          | 51.1  | 7.0   | 10.4# |
| 42          | 0.0   | 7.6   | 11.4# |
| 44          | 311.7 | 5.0   | 7.4#  |



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.972 min Scan# 1200  
 Delta R.T. -0.006 min  
 Lab File: VL042096.D  
 Acq: 05 Mar 2025 10:05

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:114 | Resp: | 359252 |       |
| Ion         | Ratio | Lower  | Upper |
| 114         | 100   |        |       |
| 63          | 26.0  | 20.1   | 30.1  |
| 88          | 18.0  | 14.3   | 21.5  |





#39

1,2-Dichloropropane

Concen: 6.522 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.366 min

Lab File: VL042096.D

Acq: 05 Mar 2025 10:05

Instrument :

MSVOA\_L

ClientSampleId :

VL0305ABL01

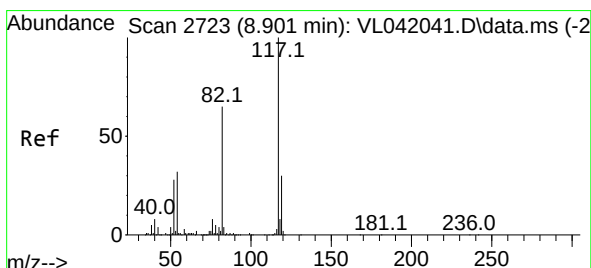
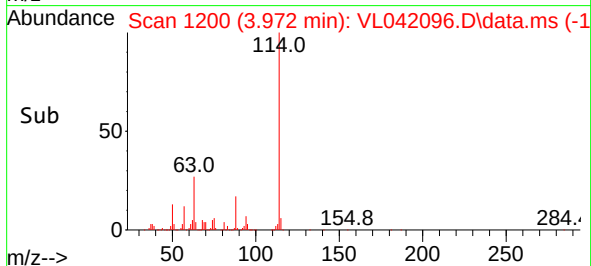
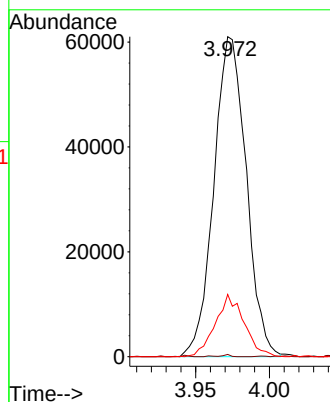
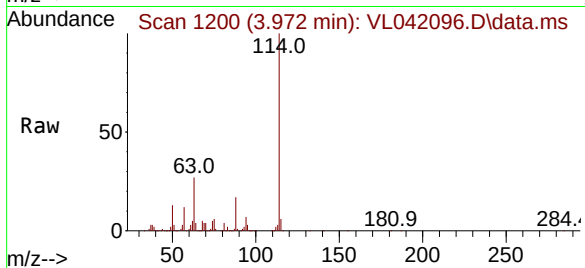
Tgt Ion: 63 Resp: 93103

Ion Ratio Lower Upper

63 100

41 0.7 60.1 90.1#

62 19.3 55.8 83.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2722

Delta R.T. -0.003 min

Lab File: VL042096.D

Acq: 05 Mar 2025 10:05

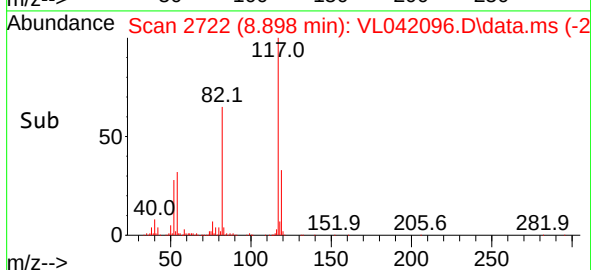
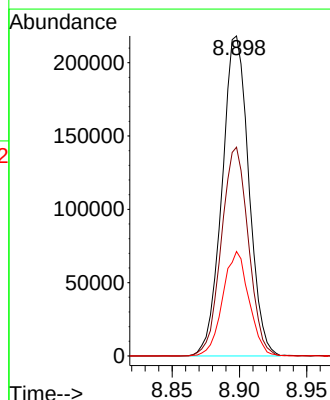
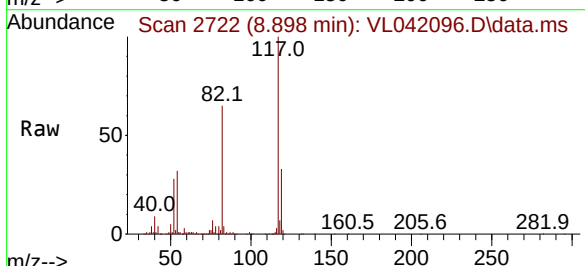
Tgt Ion: 117 Resp: 301482

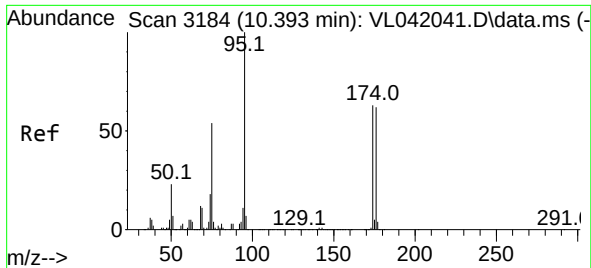
Ion Ratio Lower Upper

117 100

82 66.0 55.0 82.6

119 32.1 25.9 38.9





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.468 ppbv  
 RT: 10.390 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VL042096.D  
 Acq: 05 Mar 2025 10:05

Instrument :  
 MSVOA\_L  
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Tgt Ion: 95 Resp: 219602  
 Ion Ratio Lower Upper  
 95 100  
 174 63.0 51.8 77.6  
 175 4.4 3.9 5.9

