

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012725\  
 Data File : VU063057.D  
 Acq On : 28 Jan 2025 09:21  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 29 08:23:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jan 29 08:16:38 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.238  | 114   | 110219   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.406  | 117   | 105772   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.801 | 152   | 61379    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.592  | 65    | 15136    | 3.820    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 76.400%  |
| 7) Chloroethane-d5            | 1.904  | 69    | 14313    | 4.758    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 10614    | 4.480    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 89.600%  |
| 20) 2-Butanone-d5             | 4.605  | 46    | 48104    | 41.831   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 83.660%  |
| 24) Chloroform-d              | 5.049  | 84    | 68445    | 4.349    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.685  | 65    | 39110    | 4.353    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.000%  |
| 32) Benzene-d6                | 5.714  | 84    | 103073   | 4.264    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 85.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.679  | 67    | 26703    | 4.339    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.800%  |
| 41) Toluene-d8                | 7.885  | 98    | 106372   | 4.451    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 89.000%  |
| 43) trans-1,3-Dichloroprop... | 8.168  | 79    | 15162    | 3.979    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 79.600%  |
| 46) 2-Hexanone-d5             | 8.618  | 63    | 46113    | 48.507   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 97.020%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.743 | 84    | 26793    | 4.585    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 91.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.184 | 152   | 49673    | 4.521    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 90.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 39641    | 4.015    | ug/L   | 98       |
| 3) Chloromethane              | 1.518  | 50    | 17869    | 3.763    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.599  | 62    | 20755    | 3.914    | ug/L # | 80       |
| 6) Bromomethane               | 1.846  | 94    | 8744     | 3.447    | ug/L   | 85       |
| 8) Chloroethane               | 1.924  | 64    | 12475    | 4.659    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.129  | 101   | 59392    | 4.431    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101   | 30533    | 4.629    | ug/L   | 89       |
| 12) 1,1-Dichloroethene        | 2.570  | 96    | 27588    | 4.818    | ug/L   | 87       |
| 13) Acetone                   | 2.612  | 43    | 35362    | 47.557   | ug/L   | 94       |
| 14) Carbon disulfide          | 2.782  | 76    | 72796    | 4.963    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.936  | 43    | 7556     | 5.291    | ug/L   | 92       |
| 16) Methylene chloride        | 3.033  | 84    | 28738    | 4.761    | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 3.348  | 73    | 83085    | 4.845    | ug/L   | 97       |
| 18) trans-1,2-Dichloroethene  | 3.341  | 96    | 28691    | 4.683    | ug/L   | 94       |
| 19) 1,1-Dichloroethane        | 3.853  | 63    | 49372    | 4.648    | ug/L # | 94       |
| 21) 2-Butanone                | 4.685  | 43    | 43715    | 43.105   | ug/L   | 89       |
| 22) cis-1,2-Dichloroethene    | 4.650  | 96    | 34343    | 4.690    | ug/L   | 96       |
| 23) Bromochloromethane        | 4.962  | 128   | 18447    | 5.020    | ug/L # | 84       |
| 25) Chloroform                | 5.071  | 83    | 69242    | 4.512    | ug/L   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012725\  
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 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 29 08:23:56 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Jan 29 08:16:38 2025  
 Response via : Initial Calibration

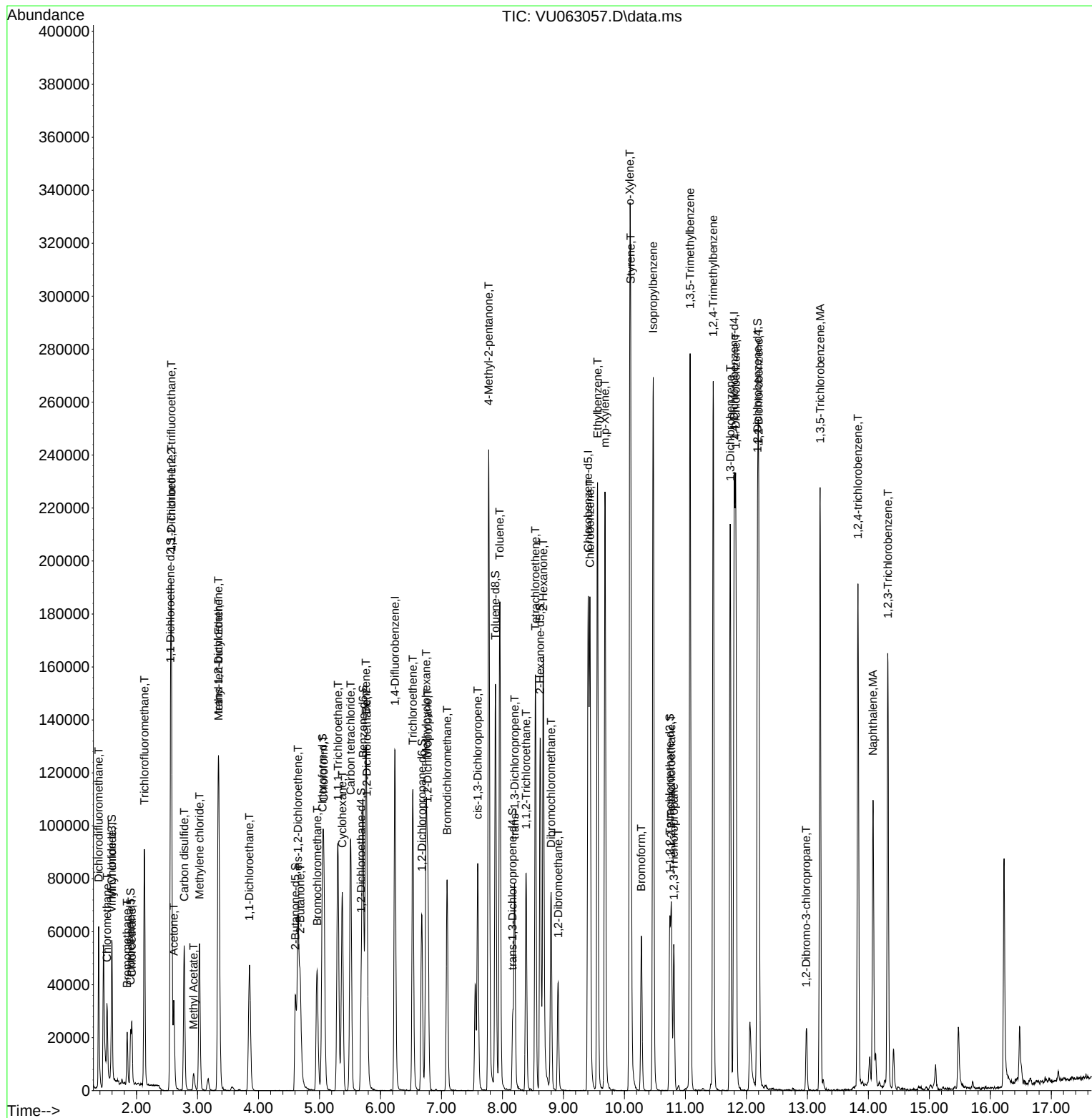
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.779  | 62   | 49087    | 4.564  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 5.303  | 97   | 73029    | 4.453  | ug/L   | 97       |
| 30) Cyclohexane               | 5.374  | 56   | 32771    | 4.290  | ug/L # | 78       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 70438    | 4.461  | ug/L   | 97       |
| 33) Benzene                   | 5.759  | 78   | 113674   | 4.436  | ug/L   | 100      |
| 34) Trichloroethene           | 6.531  | 95   | 37397    | 4.295  | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.750  | 83   | 44460    | 4.053  | ug/L   | 91       |
| 37) 1,2-Dichloropropane       | 6.775  | 63   | 23600    | 4.095  | ug/L # | 92       |
| 38) Bromodichloromethane      | 7.094  | 83   | 52456    | 4.542  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.595  | 75   | 48885    | 4.505  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.775  | 43   | 124877   | 44.914 | ug/L # | 95       |
| 42) Toluene                   | 7.955  | 91   | 140046   | 4.598  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.200  | 75   | 44619    | 4.464  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.386  | 97   | 24466    | 4.510  | ug/L   | 95       |
| 47) Tetrachloroethene         | 8.541  | 164  | 36042    | 4.759  | ug/L   | 93       |
| 48) 2-Hexanone                | 8.669  | 43   | 88245    | 45.759 | ug/L # | 97       |
| 49) Dibromochloromethane      | 8.798  | 129  | 39696    | 4.690  | ug/L   | 92       |
| 50) 1,2-Dibromoethane         | 8.914  | 107  | 26334    | 4.806  | ug/L # | 99       |
| 51) Chlorobenzene             | 9.438  | 112  | 99816    | 4.726  | ug/L   | 95       |
| 52) Ethylbenzene              | 9.560  | 91   | 164698   | 4.640  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.682  | 106  | 63327    | 4.620  | ug/L   | 98       |
| 54) o-Xylene                  | 10.090 | 106  | 61244    | 4.877  | ug/L   | 97       |
| 55) Styrene                   | 10.103 | 104  | 106456   | 5.014  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.769 | 83   | 27784    | 4.578  | ug/L # | 90       |
| 59) Bromoform                 | 10.277 | 173  | 28598    | 4.903  | ug/L   | 97       |
| 60) Isopropylbenzene          | 10.473 | 105  | 181369   | 4.663  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.811 | 75   | 20868    | 4.225  | ug/L   | 93       |
| 62) 1,3,5-Trimethylbenzene    | 11.078 | 105  | 156443   | 4.588  | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.457 | 105  | 154712   | 4.797  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.737 | 146  | 93564    | 4.738  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.827 | 146  | 92994    | 4.695  | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene       | 12.203 | 146  | 85073    | 4.579  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.981 | 75   | 6285     | 4.812  | ug/L # | 59       |
| 69) 1,3,5-Trichlorobenzene    | 13.209 | 180  | 74735    | 4.737  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.830 | 180  | 61730    | 5.000  | ug/L   | 98       |
| 71) Naphthalene               | 14.077 | 128  | 93288    | 5.889  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 52832    | 4.953  | ug/L   | 98       |

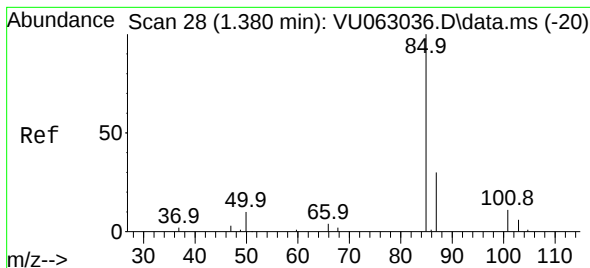
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU012725\  
Data File : VU063057.D  
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Operator : MD/SY  
Sample : VSTDCCC005EC  
Misc : 25mL/MSVOA\_U/WATER  
ALS Vial : 56 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jan 29 08:23:56 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR012725WMA.M  
Quant Title : TRACE VOA SFAM1.0  
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.015 ug/L

RT: 1.380 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

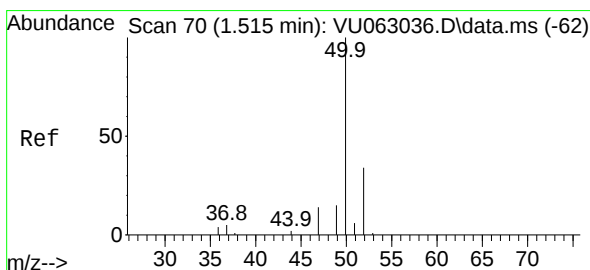
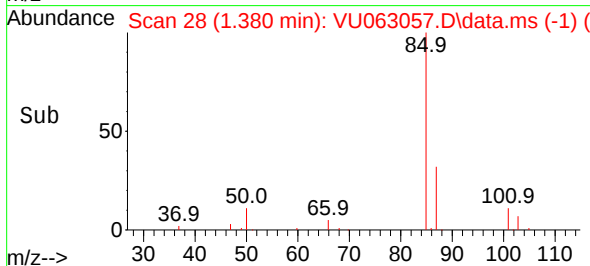
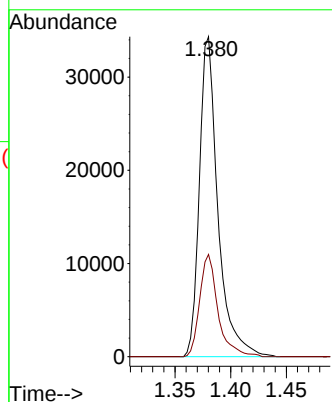
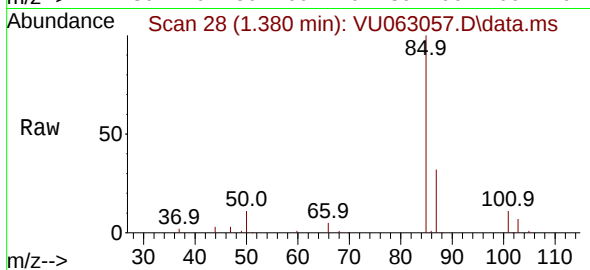
ClientSampleId :

Tgt Ion: 85 Resp: 39641

Ion Ratio Lower Upper

85 100

87 31.6 26.1 39.1



#3

Chloromethane

Concen: 3.763 ug/L

RT: 1.518 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU063057.D

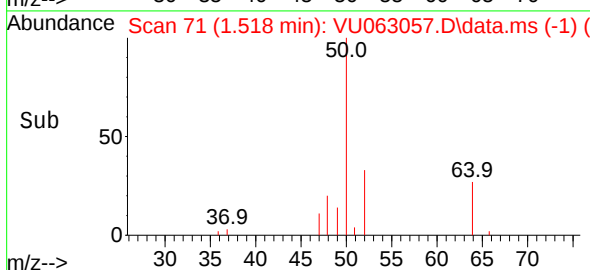
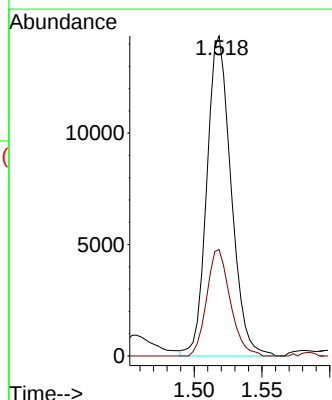
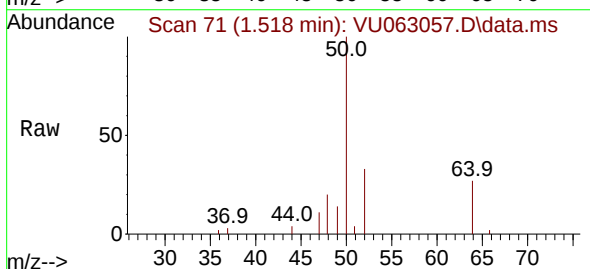
Acq: 28 Jan 2025 09:21

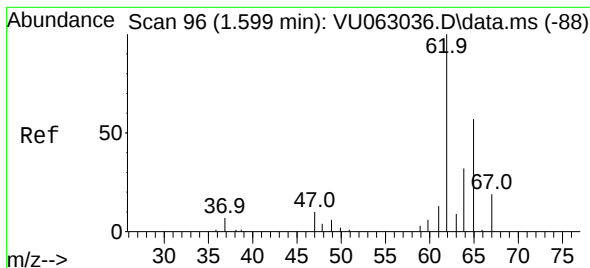
Tgt Ion: 50 Resp: 17869

Ion Ratio Lower Upper

50 100

52 33.2 24.1 44.7





#5

Vinyl chloride

Concen: 3.914 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

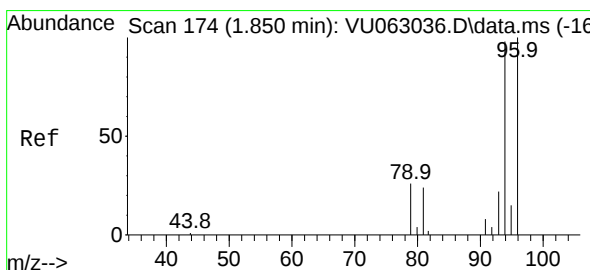
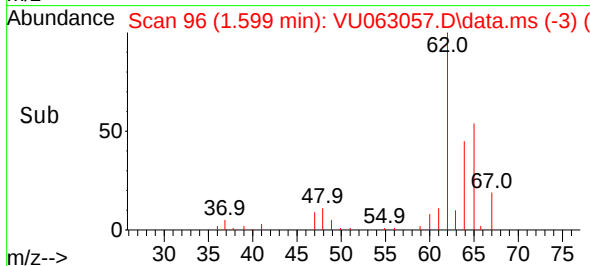
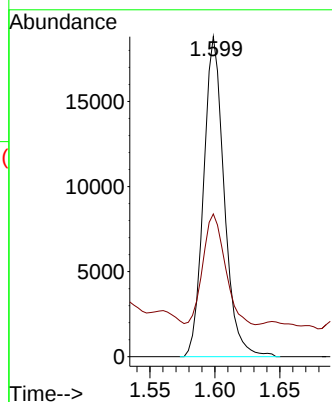
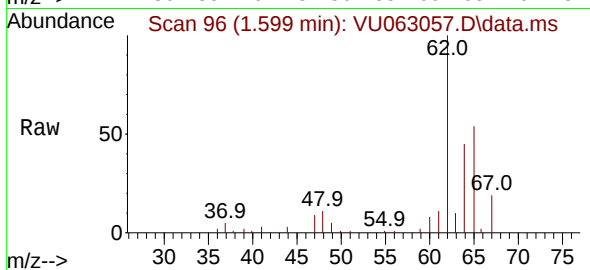
ClientSampleId :

Tgt Ion: 62 Resp: 20755

Ion Ratio Lower Upper

62 100

64 44.6 23.4 43.4#



#6

Bromomethane

Concen: 3.447 ug/L

RT: 1.846 min Scan# 173

Delta R.T. -0.003 min

Lab File: VU063057.D

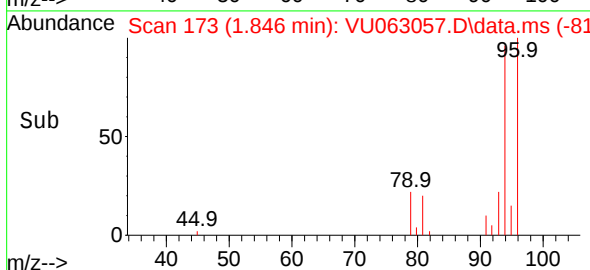
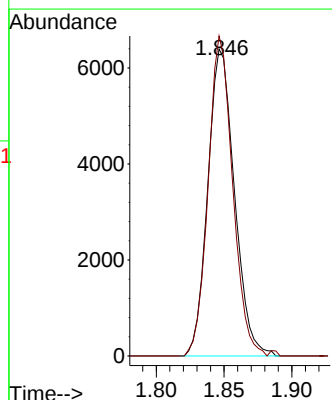
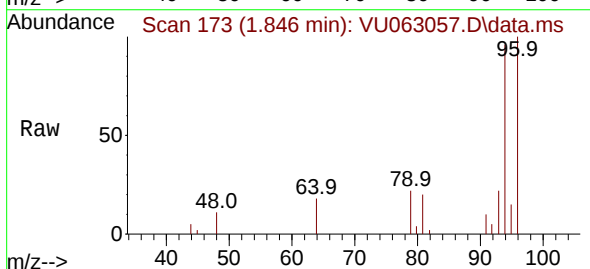
Acq: 28 Jan 2025 09:21

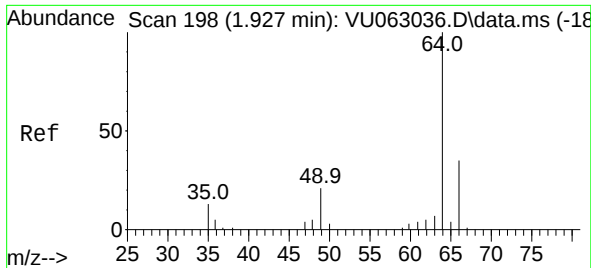
Tgt Ion: 94 Resp: 8744

Ion Ratio Lower Upper

94 100

96 104.2 62.9 116.7

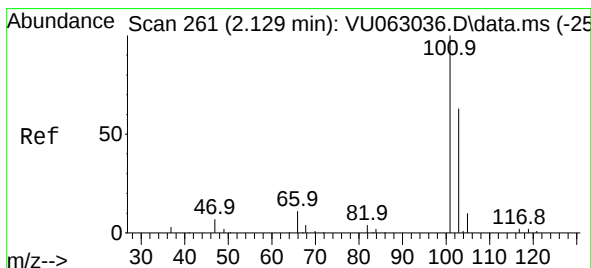
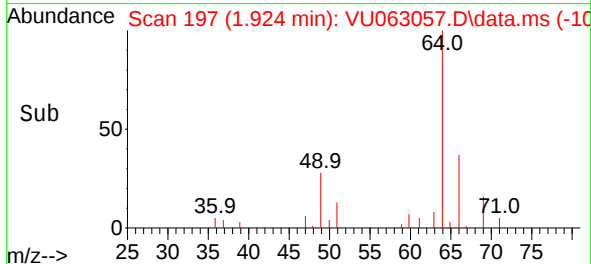
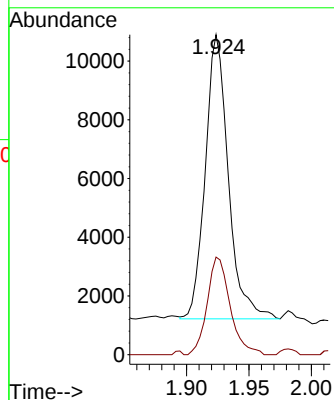
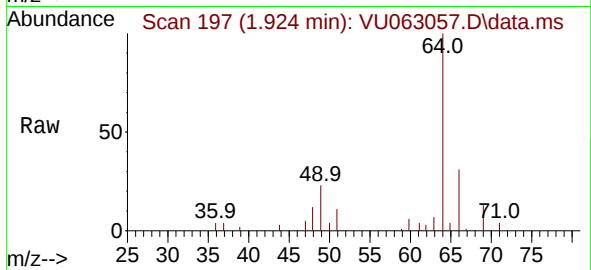




#8  
Chloroethane  
Concen: 4.659 ug/L  
RT: 1.924 min Scan# 198  
Delta R.T. -0.003 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

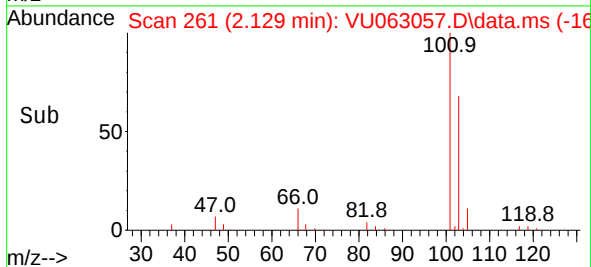
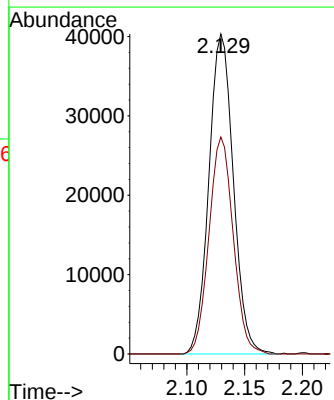
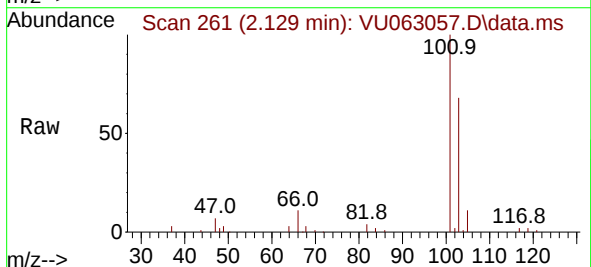
Instrument :  
MSVOA\_U  
ClientSampleId :

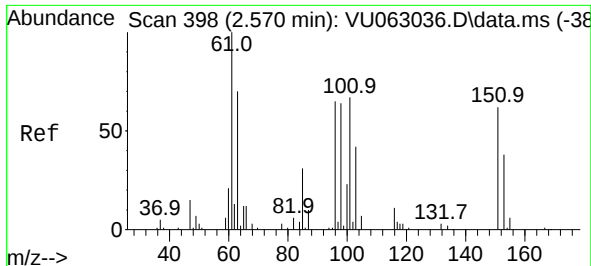
Tgt Ion: 64 Resp: 12475  
Ion Ratio Lower Upper  
64 100  
66 30.5 21.6 40.2



#9  
Trichlorofluoromethane  
Concen: 4.431 ug/L  
RT: 2.129 min Scan# 261  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion:101 Resp: 59392  
Ion Ratio Lower Upper  
101 100  
103 67.1 51.4 77.0

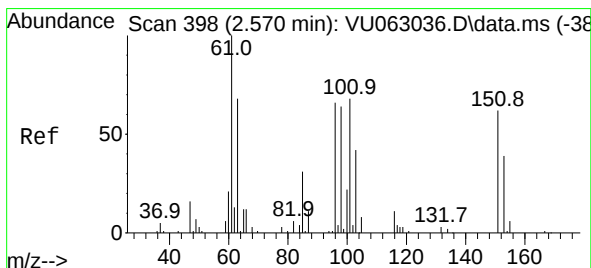
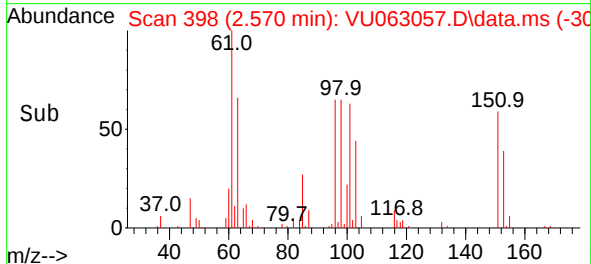
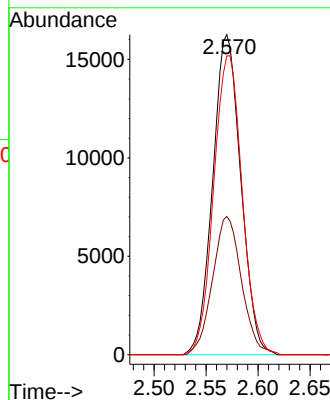
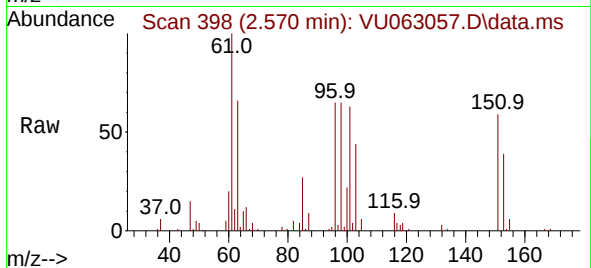




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 4.629 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

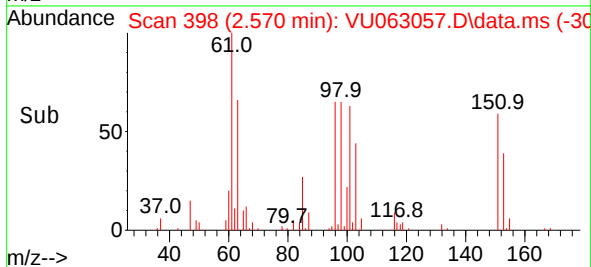
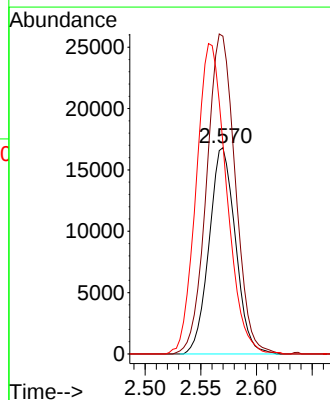
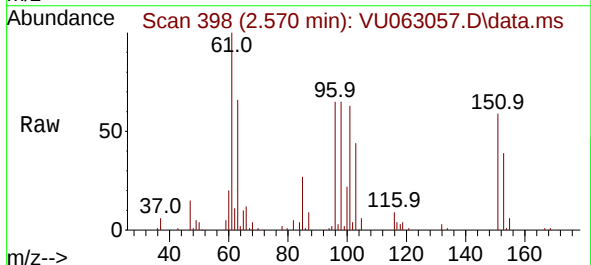
Instrument :  
MSVOA\_U  
ClientSampleId :

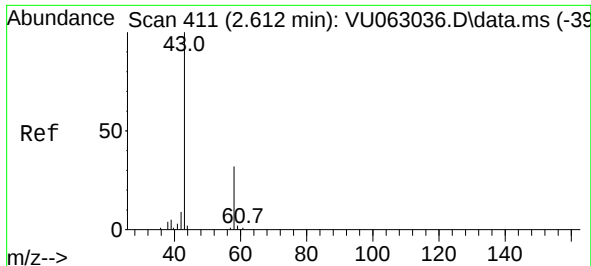
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Ion Ratio Lower Upper  
101 100  
85 44.6 37.0 55.6  
151 94.8 64.4 96.6



#12  
1,1-Dichloroethene  
Concen: 4.818 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion: 96 Resp: 27588  
Ion Ratio Lower Upper  
96 100  
61 154.1 120.4 223.6  
63 102.1 82.3 152.9





#13

Acetone

Concen: 47.557 ug/L

RT: 2.612 min Scan# 411

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

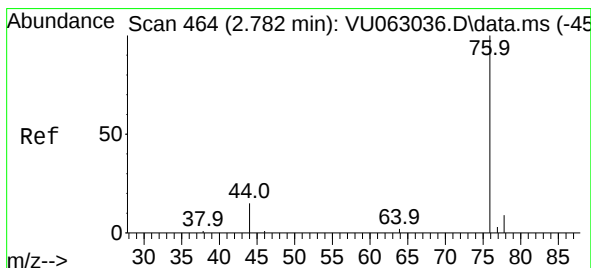
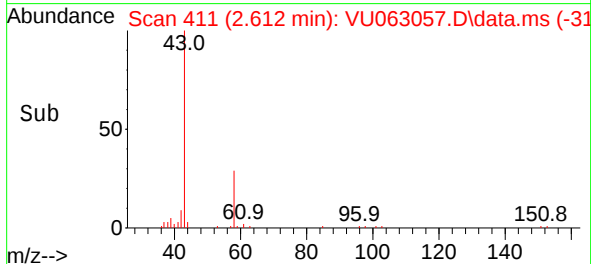
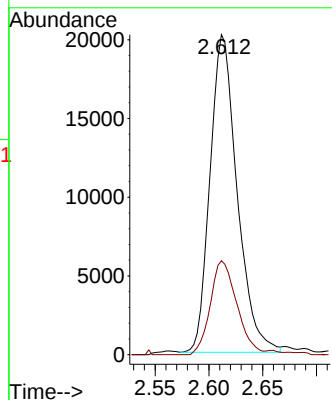
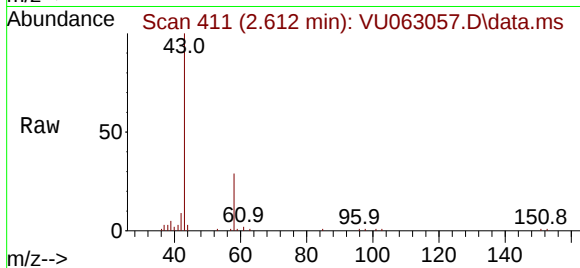
ClientSampleId :

Tgt Ion: 43 Resp: 35362

Ion Ratio Lower Upper

43 100

58 28.8 0.0 64.4



#14

Carbon disulfide

Concen: 4.963 ug/L

RT: 2.782 min Scan# 464

Delta R.T. -0.000 min

Lab File: VU063057.D

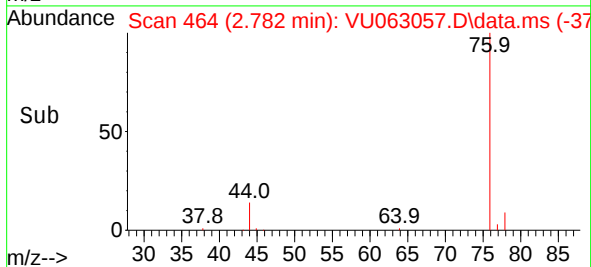
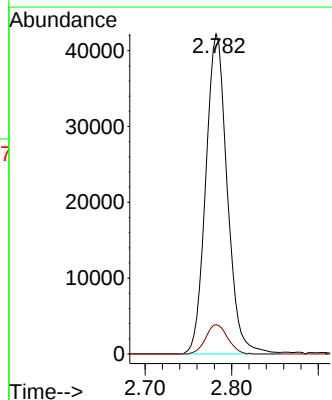
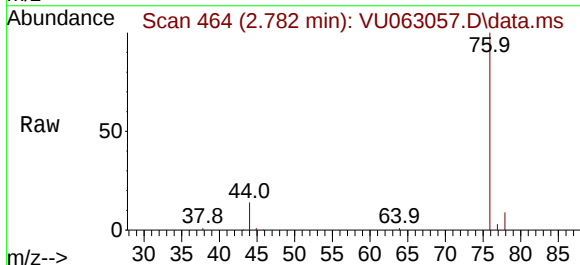
Acq: 28 Jan 2025 09:21

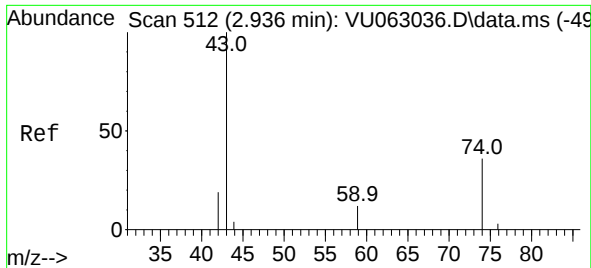
Tgt Ion: 76 Resp: 72796

Ion Ratio Lower Upper

76 100

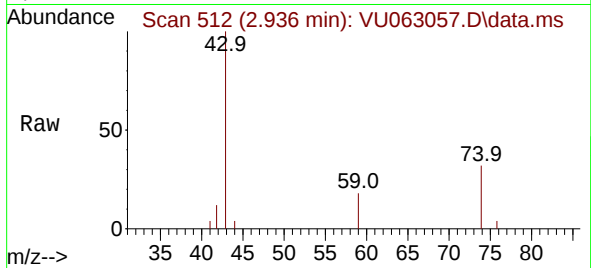
78 9.1 7.0 10.6



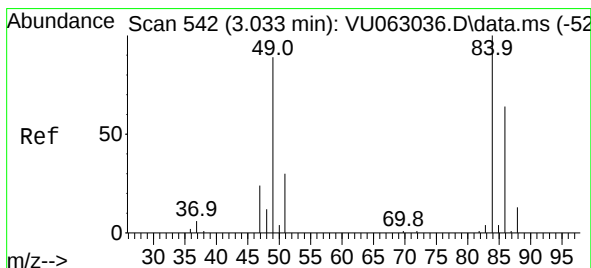
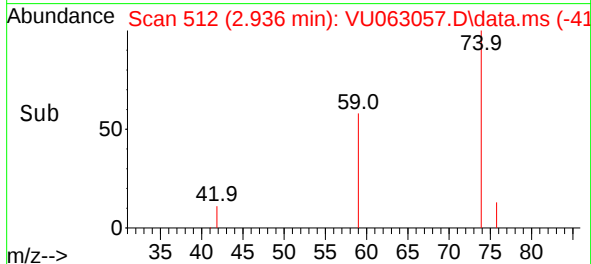
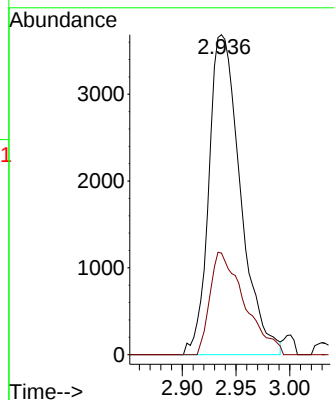


#15  
Methyl Acetate  
Concen: 5.291 ug/L  
RT: 2.936 min Scan# 512  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Instrument :  
MSVOA\_U  
ClientSampleId :

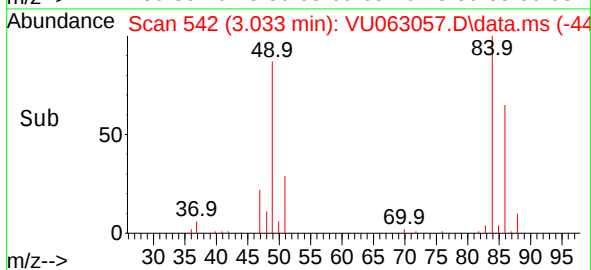
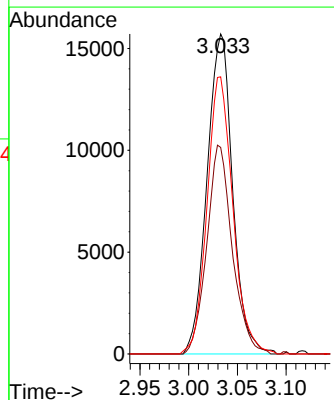
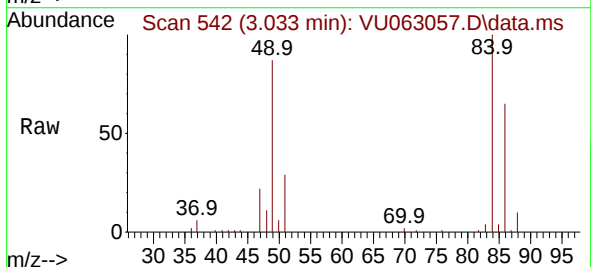


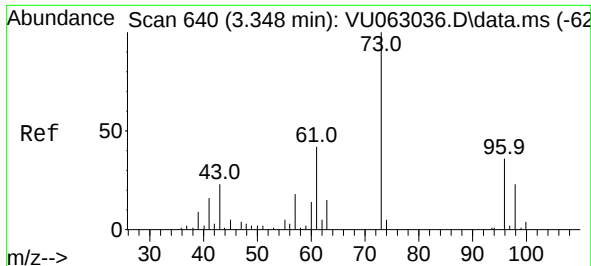
Tgt Ion: 43 Resp: 7556  
Ion Ratio Lower Upper  
43 100  
74 34.8 24.4 36.6



#16  
Methylene chloride  
Concen: 4.761 ug/L  
RT: 3.033 min Scan# 542  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion: 84 Resp: 28738  
Ion Ratio Lower Upper  
84 100  
86 64.6 44.7 83.1  
49 86.6 68.3 126.9

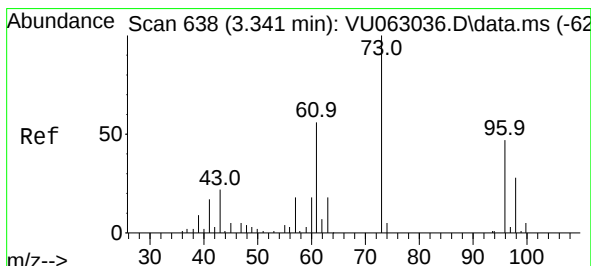
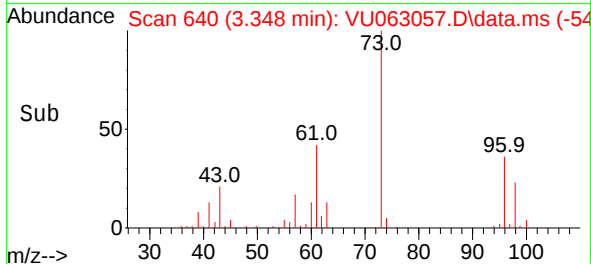
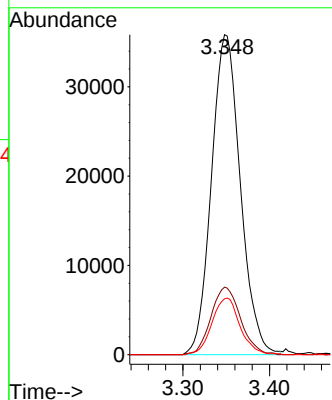
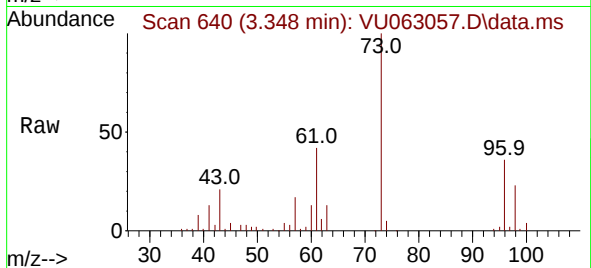




#17  
Methyl tert-butyl Ether  
Concen: 4.845 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

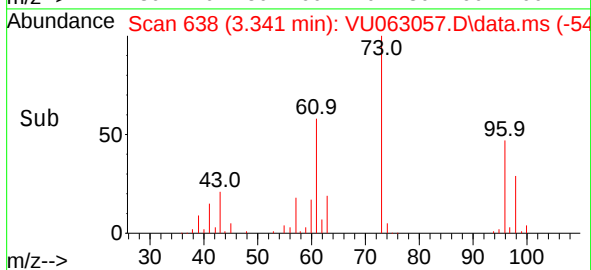
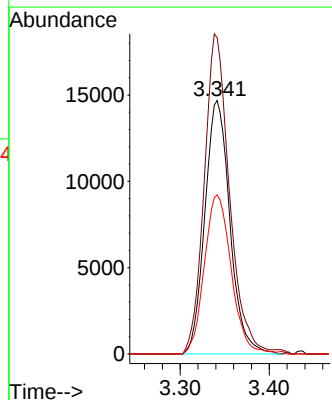
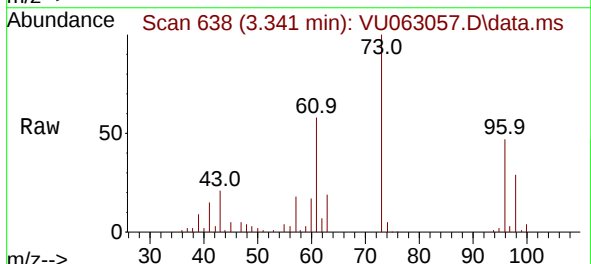
Instrument :  
MSVOA\_U  
ClientSampleId :

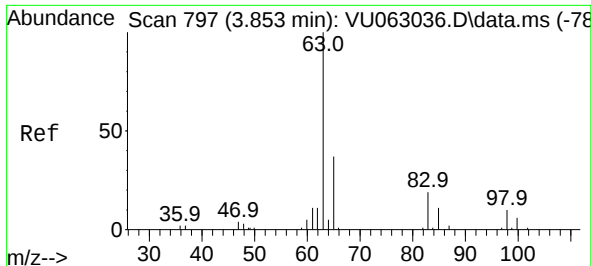
|             |                |
|-------------|----------------|
| Tgt Ion: 73 | Resp: 83085    |
| Ion Ratio   | Lower Upper    |
| 73          | 100            |
| 43          | 21.6 16.2 24.4 |
| 57          | 17.2 14.6 22.0 |



#18  
trans-1,2-Dichloroethene  
Concen: 4.683 ug/L  
RT: 3.341 min Scan# 638  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

|             |                  |
|-------------|------------------|
| Tgt Ion: 96 | Resp: 28691      |
| Ion Ratio   | Lower Upper      |
| 96          | 100              |
| 61          | 124.8 94.4 175.2 |
| 98          | 62.7 42.8 79.4   |

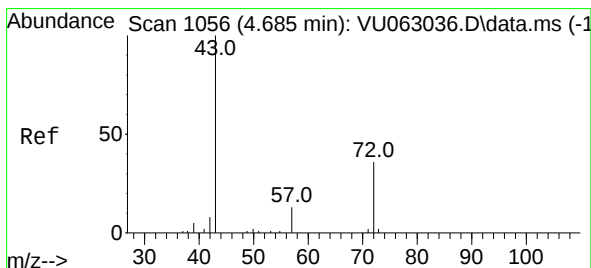
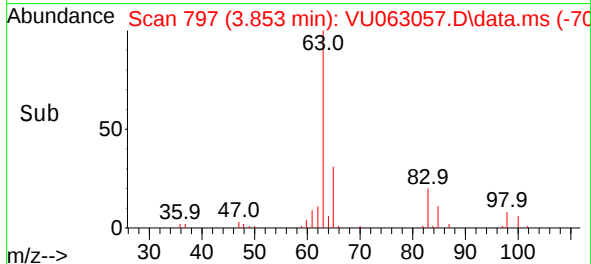
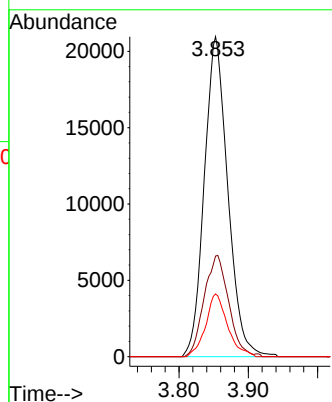
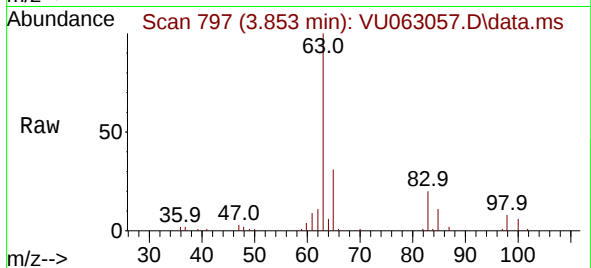




#19  
1,1-Dichloroethane  
Concen: 4.648 ug/L  
RT: 3.853 min Scan# 797  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

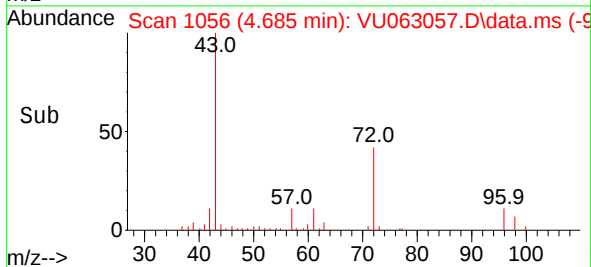
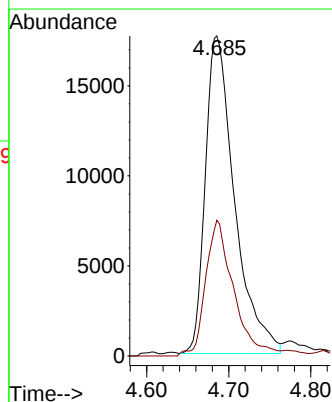
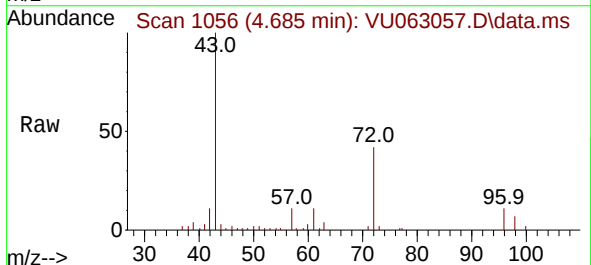
Instrument :  
MSVOA\_U  
ClientSampleId :

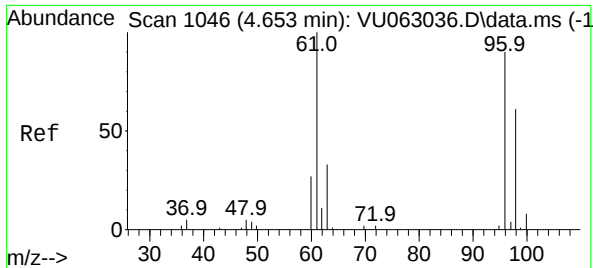
Tgt Ion: 63 Resp: 49372  
Ion Ratio Lower Upper  
63 100  
65 31.5 20.7 38.5  
83 19.6 10.5 19.5#



#21  
2-Butanone  
Concen: 43.105 ug/L  
RT: 4.685 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

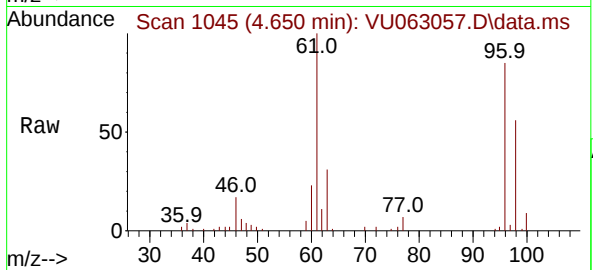
Tgt Ion: 43 Resp: 43715  
Ion Ratio Lower Upper  
43 100  
72 40.6 17.1 51.2



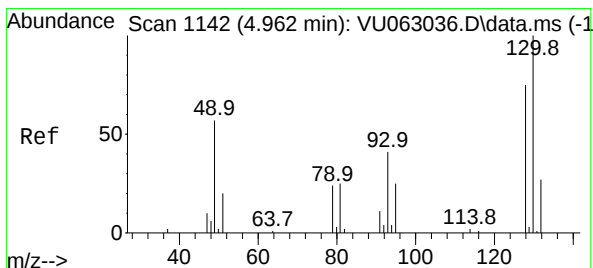
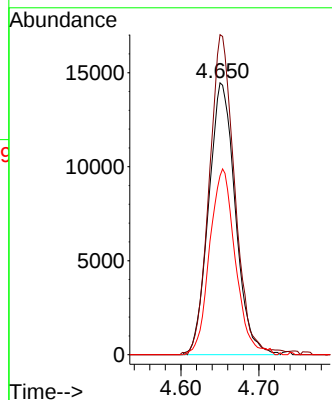
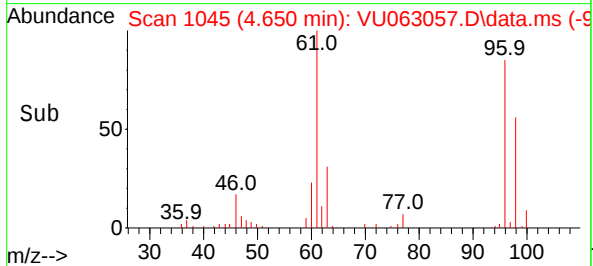


#22  
 cis-1,2-Dichloroethene  
 Concen: 4.690 ug/L  
 RT: 4.650 min Scan# 1046  
 Delta R.T. -0.003 min  
 Lab File: VU063057.D  
 Acq: 28 Jan 2025 09:21

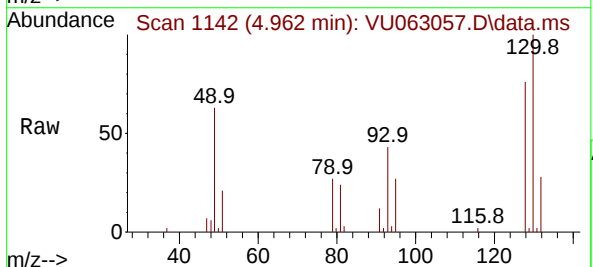
Instrument :  
 MSVOA\_U  
 ClientSampleId :



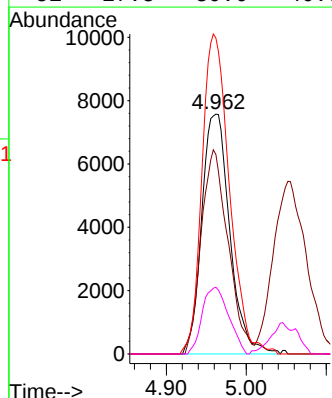
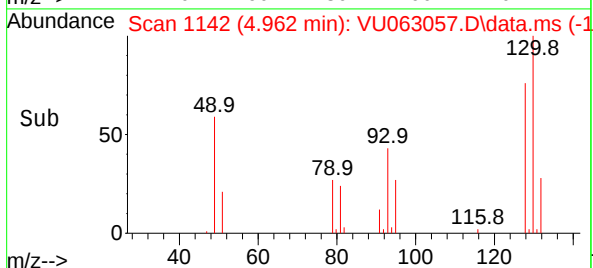
Tgt Ion: 96 Resp: 34343  
 Ion Ratio Lower Upper  
 96 100  
 61 117.7 84.8 157.6  
 98 65.8 43.1 80.1

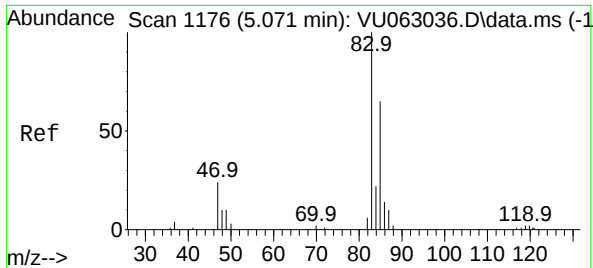


#23  
 Bromochloromethane  
 Concen: 5.020 ug/L  
 RT: 4.962 min Scan# 1142  
 Delta R.T. 0.000 min  
 Lab File: VU063057.D  
 Acq: 28 Jan 2025 09:21



Tgt Ion: 128 Resp: 18447  
 Ion Ratio Lower Upper  
 128 100  
 49 83.2 81.1 150.7  
 130 131.8 94.9 176.3  
 51 27.8 30.6 46.0#





#25

Chloroform

Concen: 4.512 ug/L

RT: 5.071 min Scan# 1176

Delta R.T. -0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

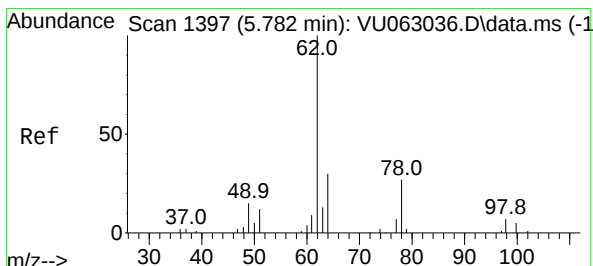
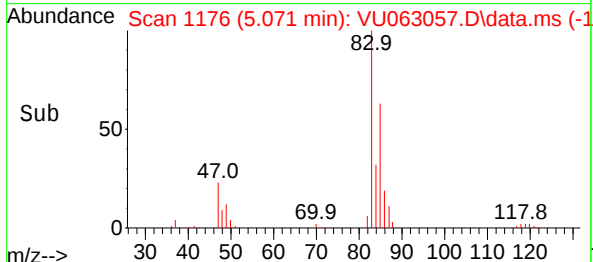
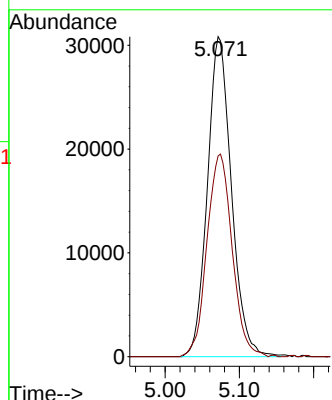
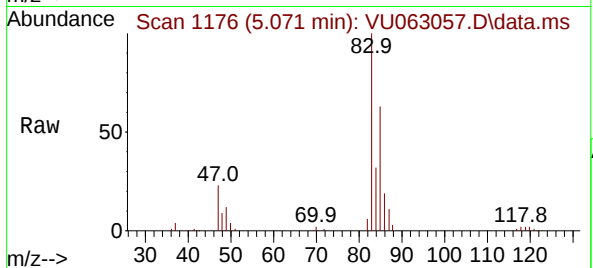
ClientSampleId :

Tgt Ion: 83 Resp: 69242

Ion Ratio Lower Upper

83 100

85 62.7 45.8 85.2



#27

1,2-Dichloroethane

Concen: 4.564 ug/L

RT: 5.779 min Scan# 1396

Delta R.T. -0.003 min

Lab File: VU063057.D

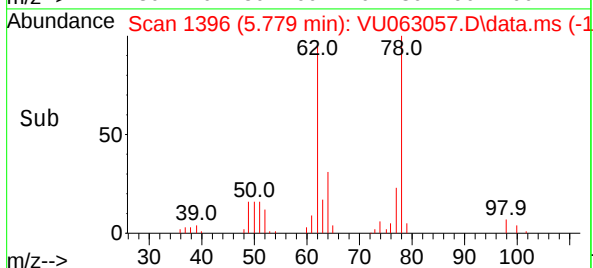
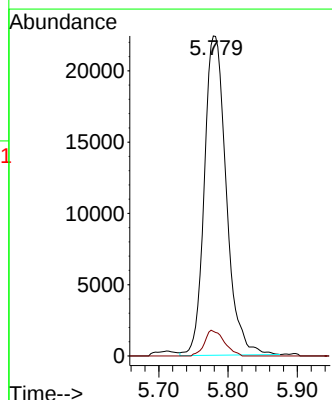
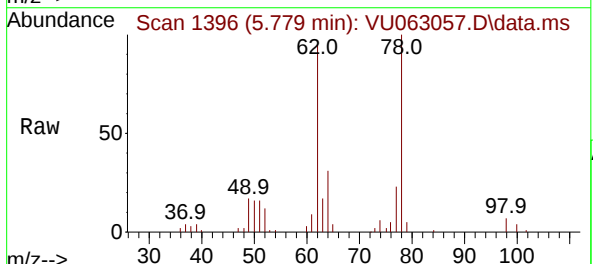
Acq: 28 Jan 2025 09:21

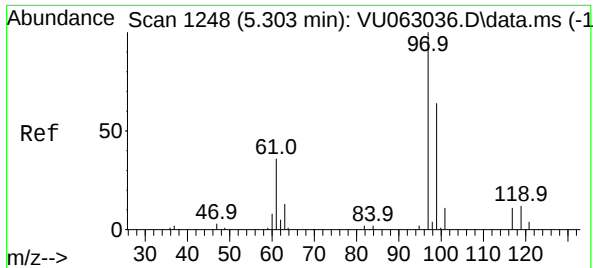
Tgt Ion: 62 Resp: 49087

Ion Ratio Lower Upper

62 100

98 7.7 5.8 8.6

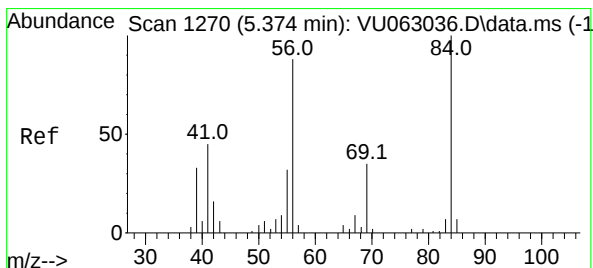
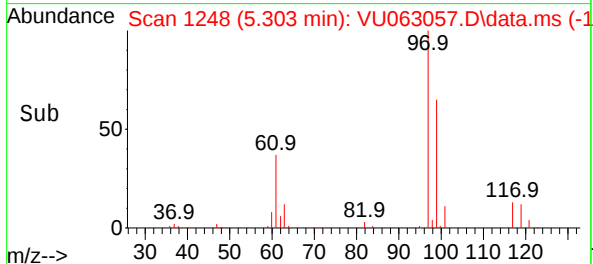
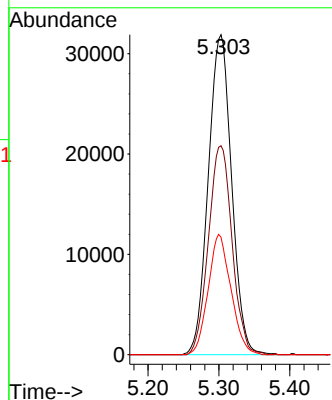
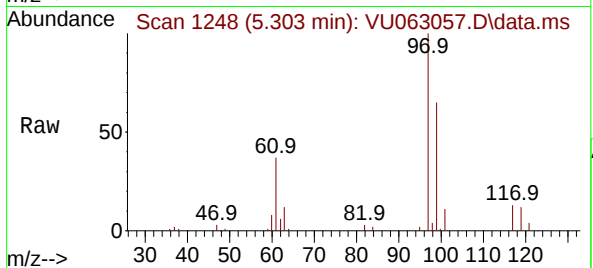




#29  
1,1,1-Trichloroethane  
Concen: 4.453 ug/L  
RT: 5.303 min Scan# 1248  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

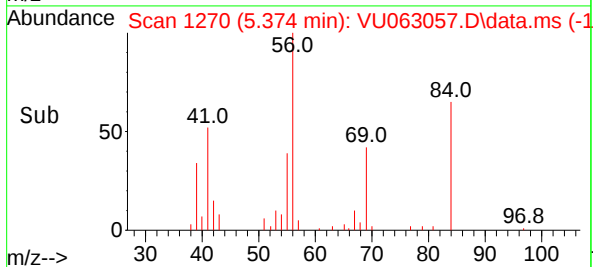
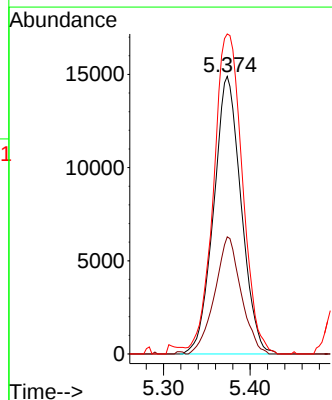
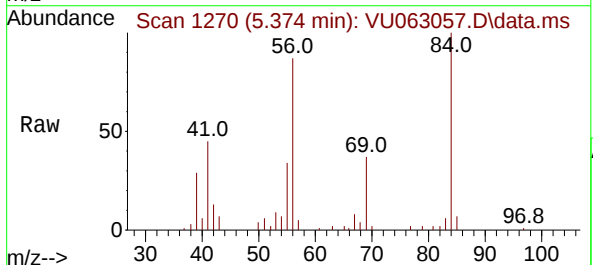
Instrument :  
MSVOA\_U  
ClientSampleId :

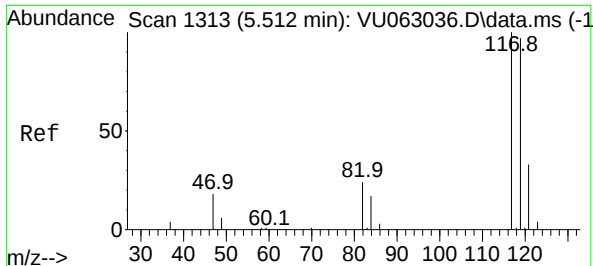
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 73029 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 66.3  | 52.4  | 78.6  |
| 61       | 36.7  | 32.2  | 48.4  |



#30  
Cyclohexane  
Concen: 4.290 ug/L  
RT: 5.374 min Scan# 1270  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 32771  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 40.6  | 28.3  | 42.5   |
| 84       | 121.2 | 76.5  | 114.7# |

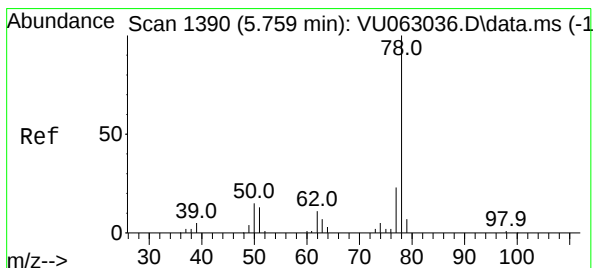
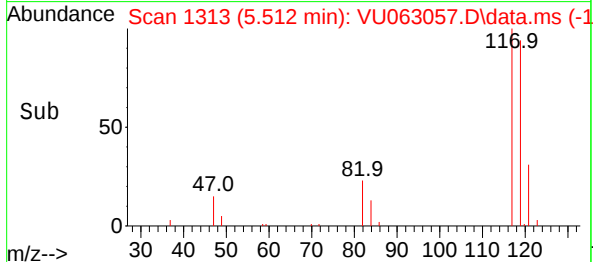
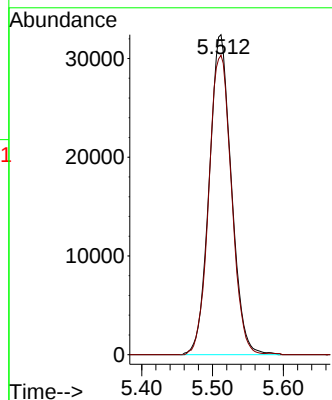
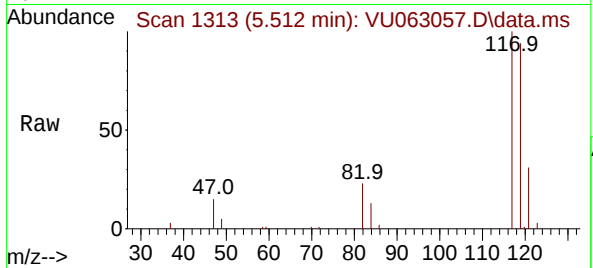




#31  
Carbon tetrachloride  
Concen: 4.461 ug/L  
RT: 5.512 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

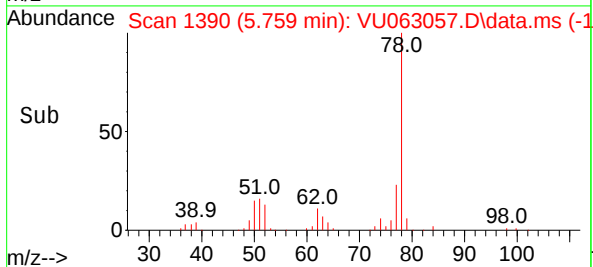
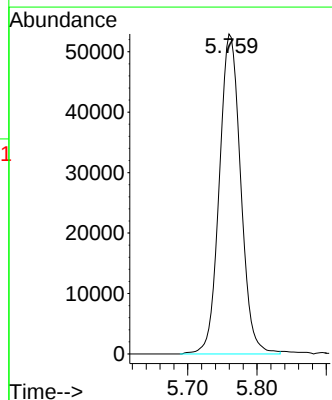
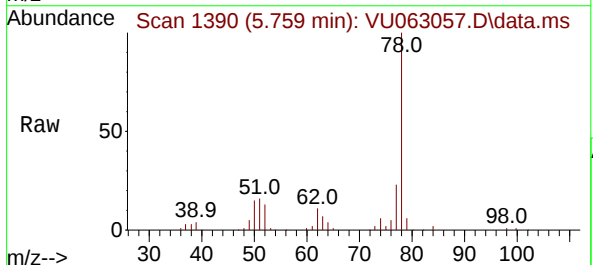
Instrument :  
MSVOA\_U  
ClientSampleId :

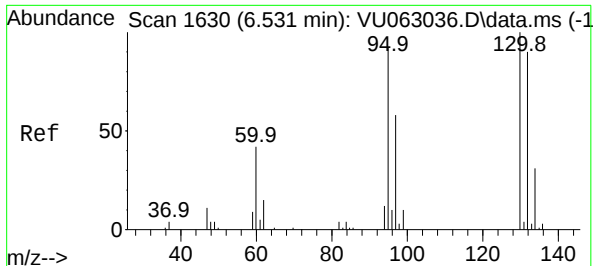
Tgt Ion:117 Resp: 70438  
Ion Ratio Lower Upper  
117 100  
119 95.7 78.6 118.0



#33  
Benzene  
Concen: 4.436 ug/L  
RT: 5.759 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion: 78 Resp: 113674





#34

Trichloroethene

Concen: 4.295 ug/L

RT: 6.531 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 95 Resp: 37397

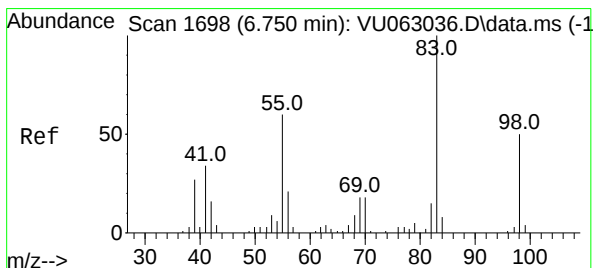
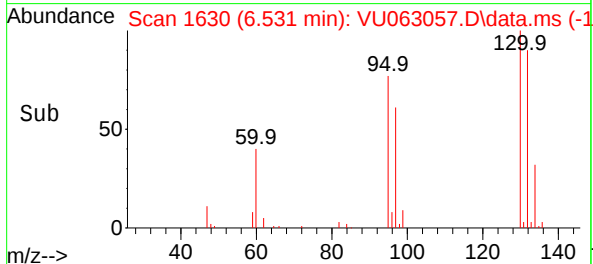
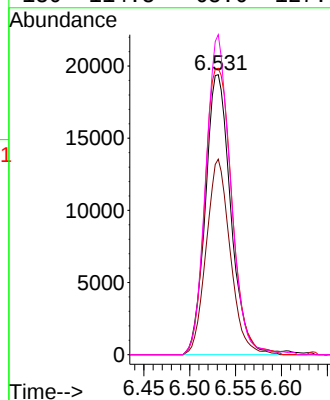
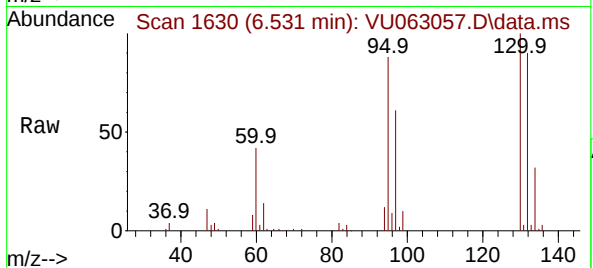
Ion Ratio Lower Upper

95 100

97 69.8 47.5 88.3

132 102.3 66.9 124.3

130 114.3 68.6 127.4



#35

Methylcyclohexane

Concen: 4.053 ug/L

RT: 6.750 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

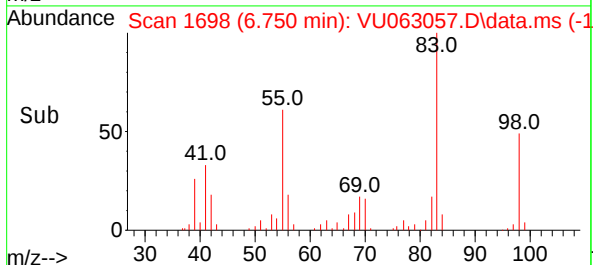
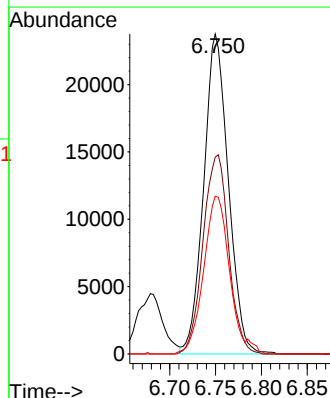
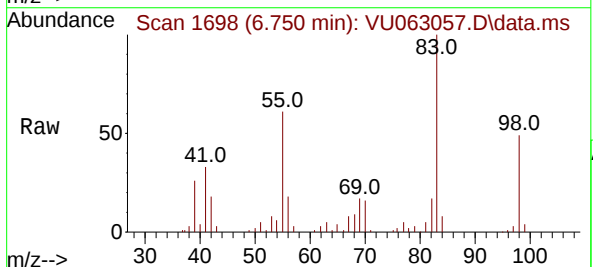
Tgt Ion: 83 Resp: 44460

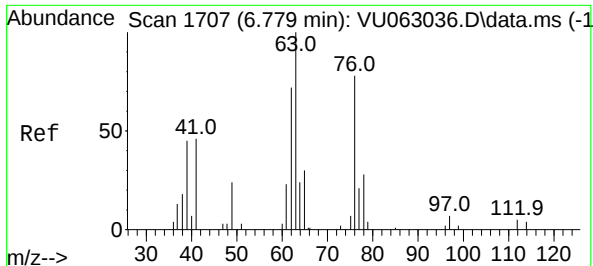
Ion Ratio Lower Upper

83 100

55 64.4 57.2 85.8

98 52.1 36.6 55.0

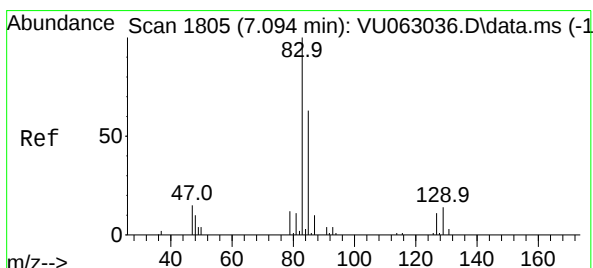
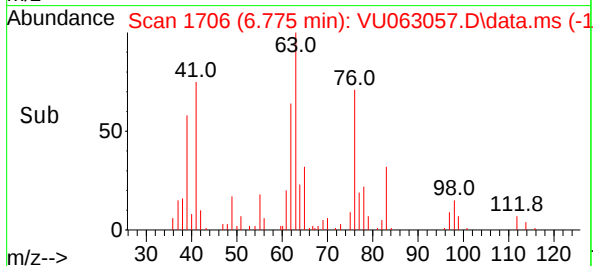
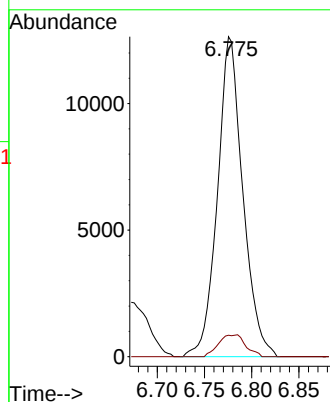
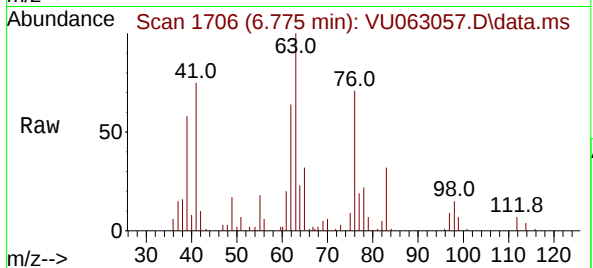




#37  
1,2-Dichloropropane  
Concen: 4.095 ug/L  
RT: 6.775 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

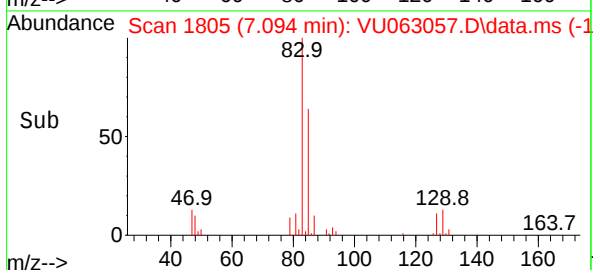
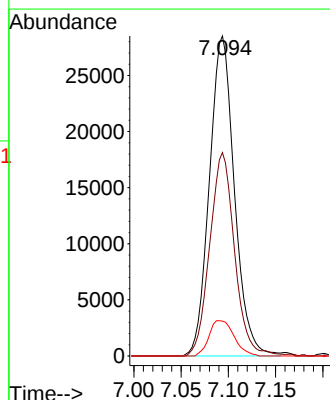
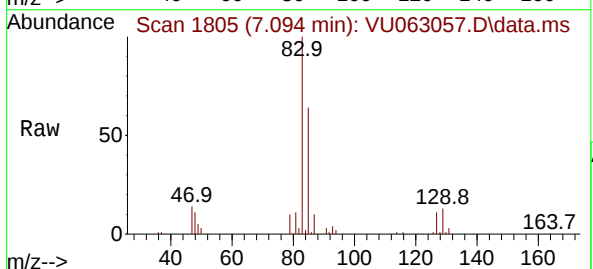
Instrument :  
MSVOA\_U  
ClientSampleId :

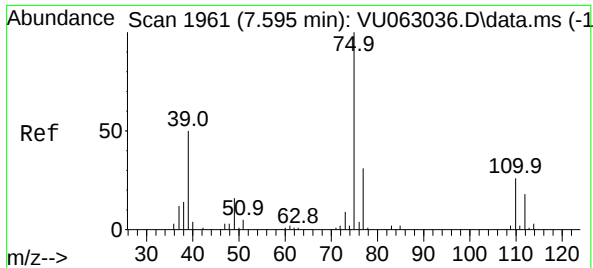
Tgt Ion: 63 Resp: 23600  
Ion Ratio Lower Upper  
63 100  
112 7.3 3.8 5.8#



#38  
Bromodichloromethane  
Concen: 4.542 ug/L  
RT: 7.094 min Scan# 1805  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion: 83 Resp: 52456  
Ion Ratio Lower Upper  
83 100  
85 63.5 44.2 82.0  
127 10.9 7.8 11.8

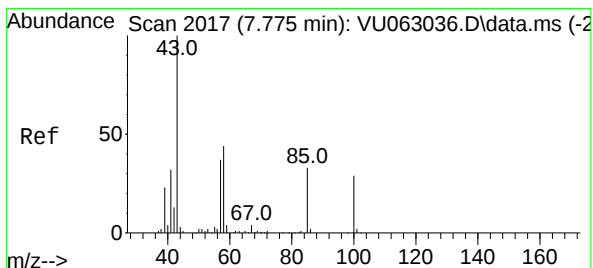
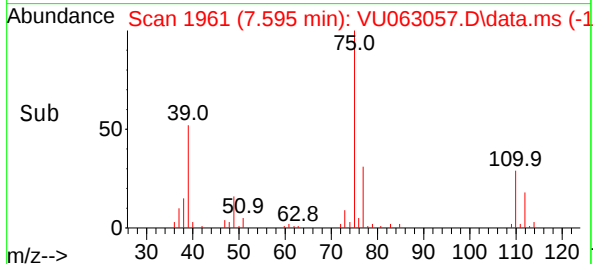
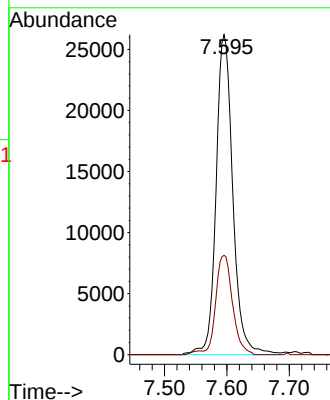
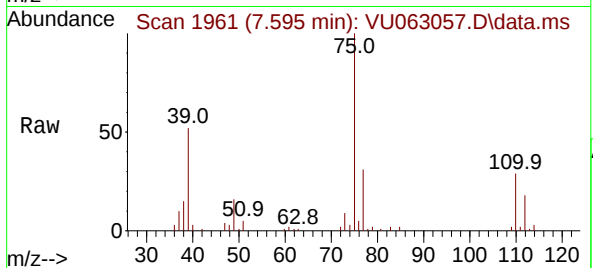




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.505 ug/L  
 RT: 7.595 min Scan# 1961  
 Delta R.T. 0.000 min  
 Lab File: VU063057.D  
 Acq: 28 Jan 2025 09:21

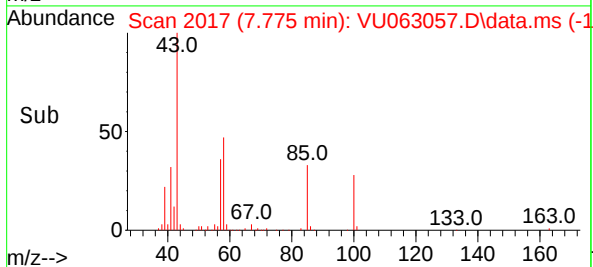
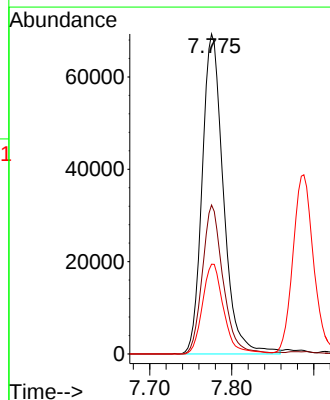
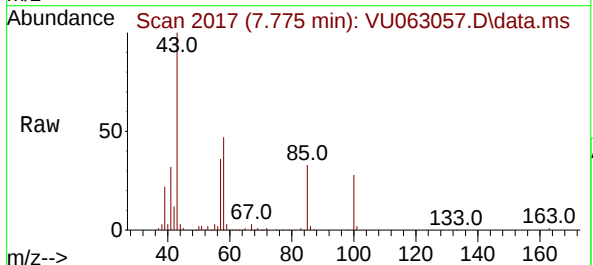
Instrument :  
 MSVOA\_U  
 ClientSampleId :

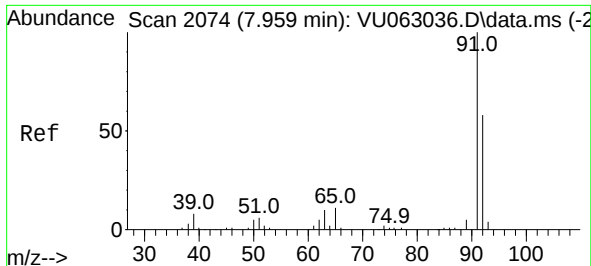
Tgt Ion: 75 Resp: 48885  
 Ion Ratio Lower Upper  
 75 100  
 77 31.0 22.3 41.3



#40  
 4-Methyl-2-pentanone  
 Concen: 44.914 ug/L  
 RT: 7.775 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: VU063057.D  
 Acq: 28 Jan 2025 09:21

Tgt Ion: 43 Resp: 124877  
 Ion Ratio Lower Upper  
 43 100  
 58 45.4 35.8 53.8  
 100 28.0 16.8 25.2#





#42

Toluene

Concen: 4.598 ug/L

RT: 7.955 min Scan# 2074

Delta R.T. -0.003 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

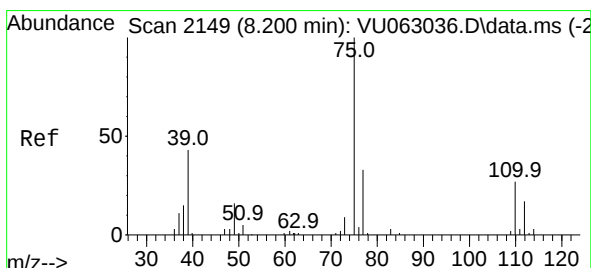
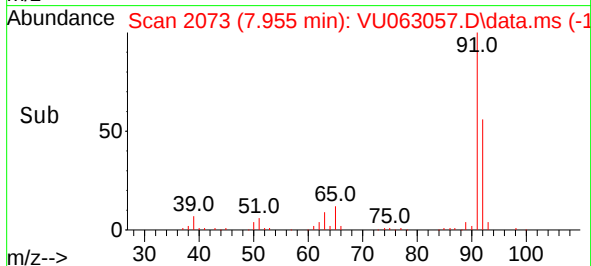
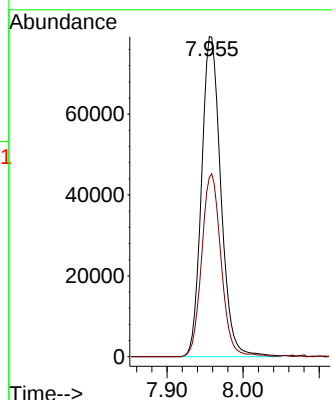
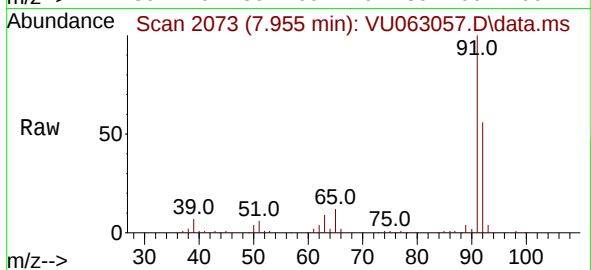
ClientSampleId :

Tgt Ion: 91 Resp: 140046

Ion Ratio Lower Upper

91 100

92 56.1 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 4.464 ug/L

RT: 8.200 min Scan# 2149

Delta R.T. 0.000 min

Lab File: VU063057.D

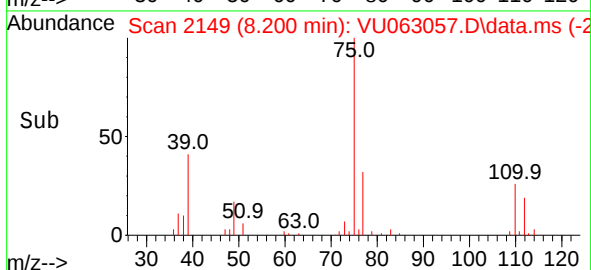
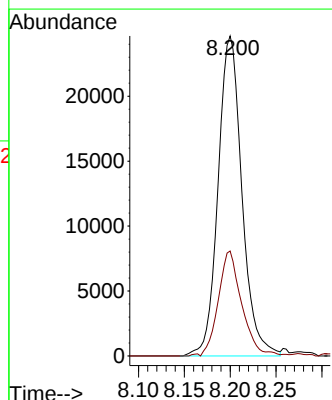
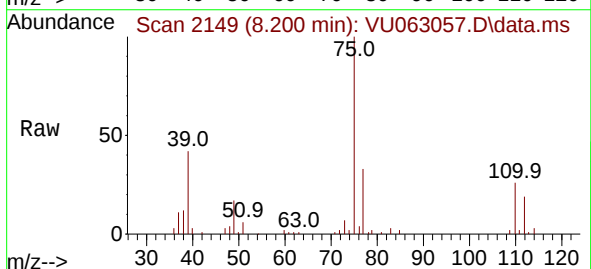
Acq: 28 Jan 2025 09:21

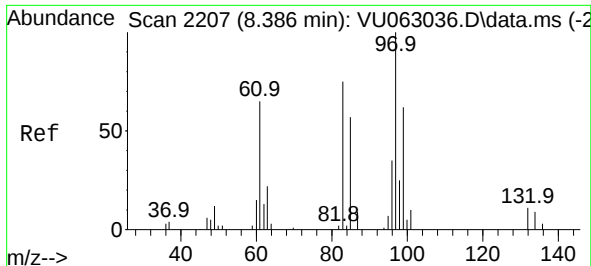
Tgt Ion: 75 Resp: 44619

Ion Ratio Lower Upper

75 100

77 32.8 21.8 40.6





#45

1,1,2-Trichloroethane

Concen: 4.510 ug/L

RT: 8.386 min Scan# 2207

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 97 Resp: 24466

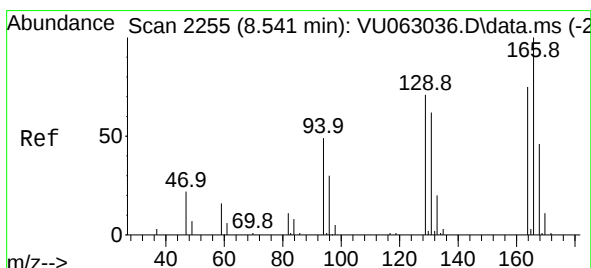
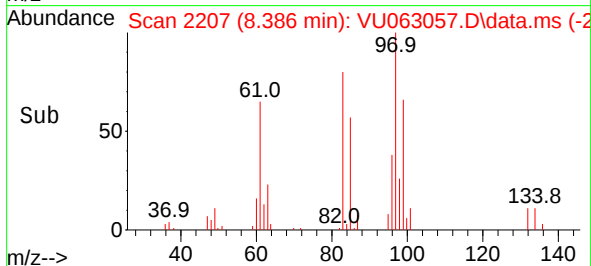
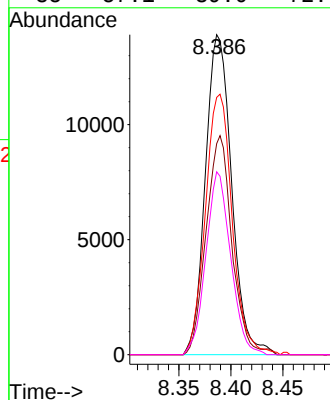
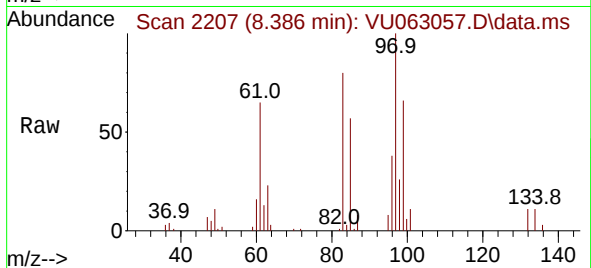
Ion Ratio Lower Upper

97 100

99 66.0 45.6 84.6

83 80.4 63.0 117.0

85 57.1 39.0 72.4



#47

Tetrachloroethene

Concen: 4.759 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Tgt Ion:164 Resp: 36042

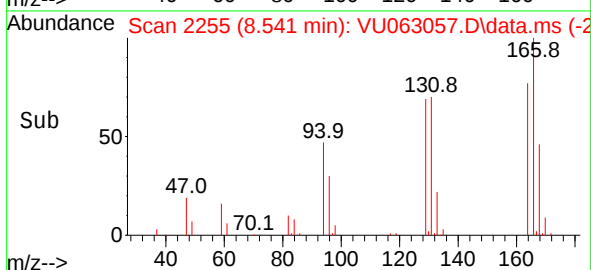
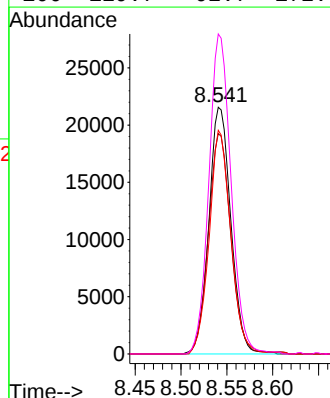
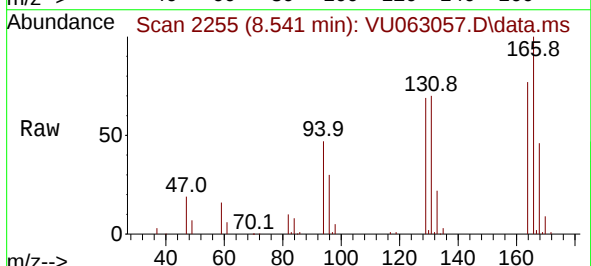
Ion Ratio Lower Upper

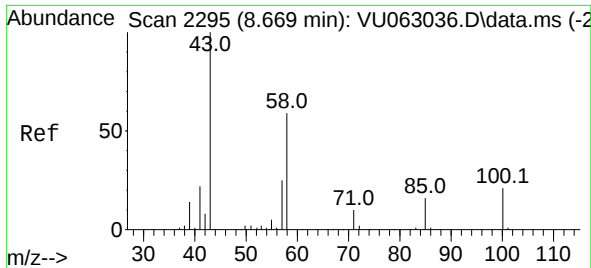
164 100

129 89.3 71.0 131.9

131 90.7 69.4 129.0

166 129.7 92.7 172.3

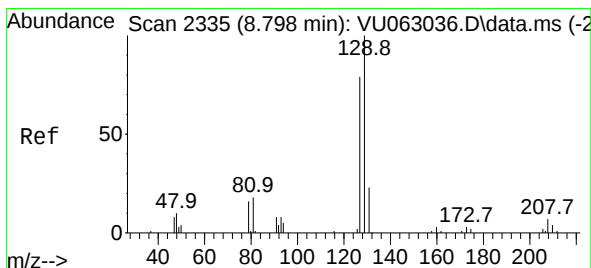
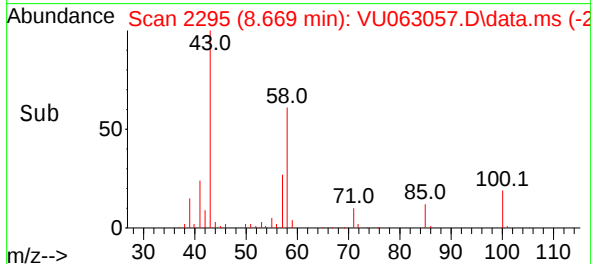
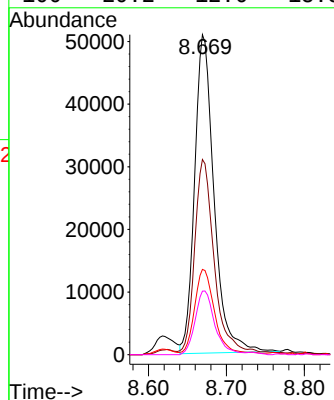
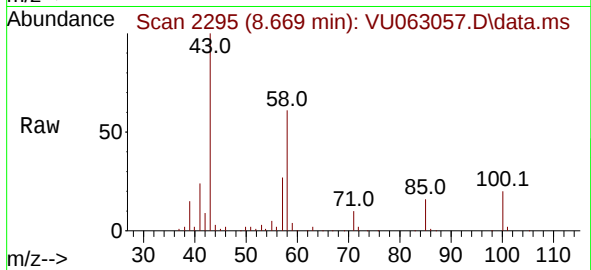




#48  
2-Hexanone  
Concen: 45.759 ug/L  
RT: 8.669 min Scan# 2295  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

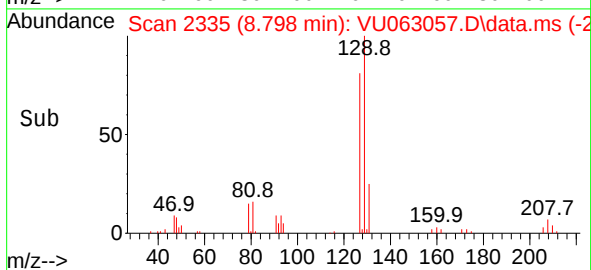
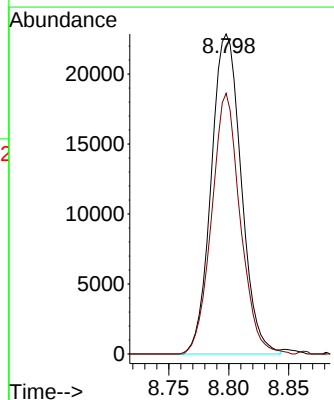
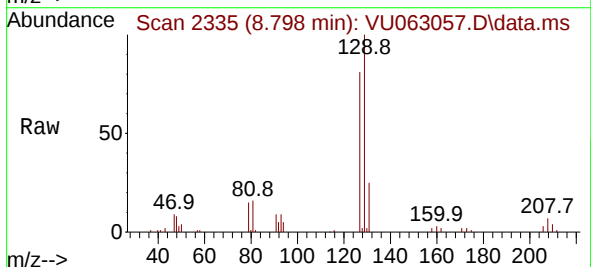
Instrument :  
MSVOA\_U  
ClientSampleId :

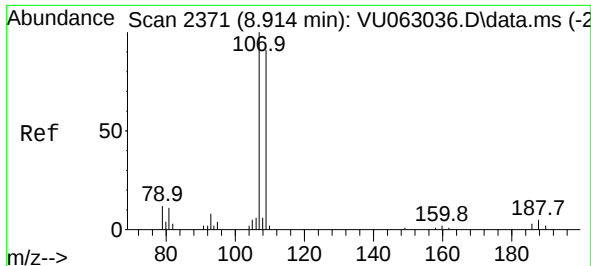
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 88245 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 61.2  | 50.2  | 75.4  |
| 57        | 26.0  | 19.9  | 29.9  |
| 100       | 20.2  | 12.6  | 18.8  |



#49  
Dibromochloromethane  
Concen: 4.690 ug/L  
RT: 8.798 min Scan# 2335  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

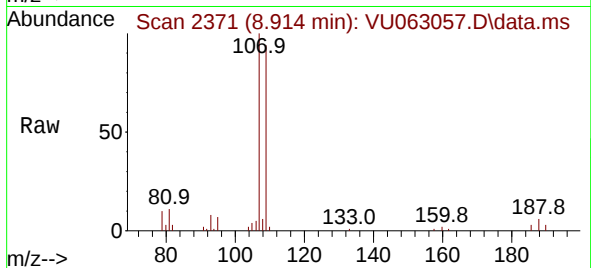
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 129   | Resp: | 39696 |
| Ion Ratio | Lower | Upper |       |
| 129       | 100   |       |       |
| 127       | 81.5  | 52.1  | 96.9  |



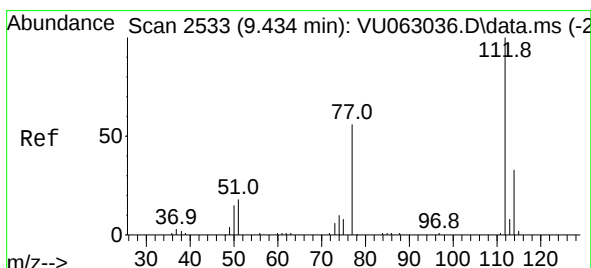
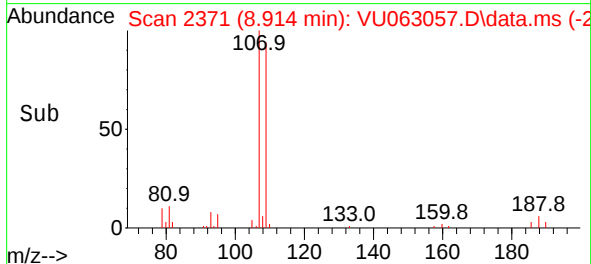
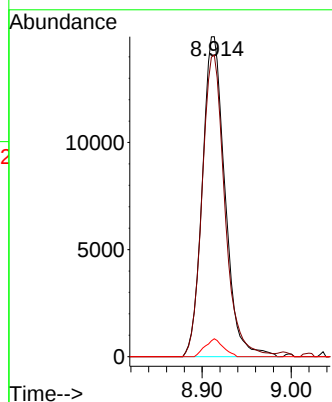


#50  
1,2-Dibromoethane  
Concen: 4.806 ug/L  
RT: 8.914 min Scan# 24  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Instrument :  
MSVOA\_U  
ClientSampleId :

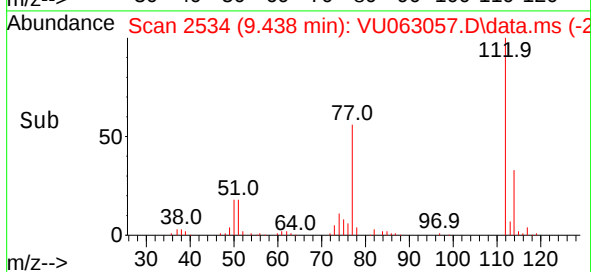
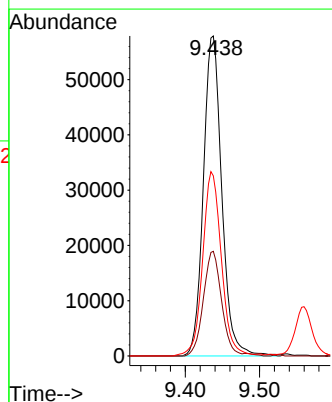
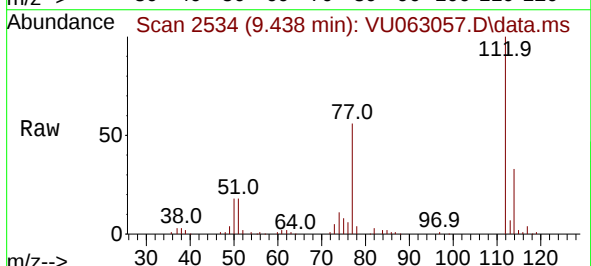


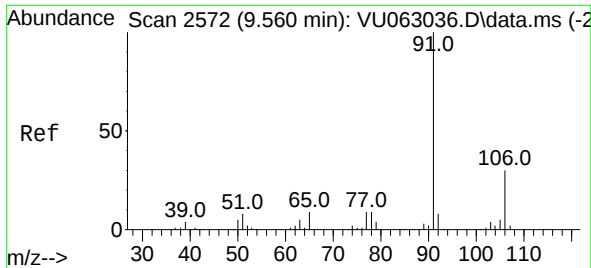
Tgt Ion:107 Resp: 26334  
Ion Ratio Lower Upper  
107 100  
109 94.3 65.7 121.9  
188 5.6 3.4 5.2#



#51  
Chlorobenzene  
Concen: 4.726 ug/L  
RT: 9.438 min Scan# 2534  
Delta R.T. 0.003 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion:112 Resp: 99816  
Ion Ratio Lower Upper  
112 100  
114 32.7 21.7 40.3  
77 56.3 48.6 73.0

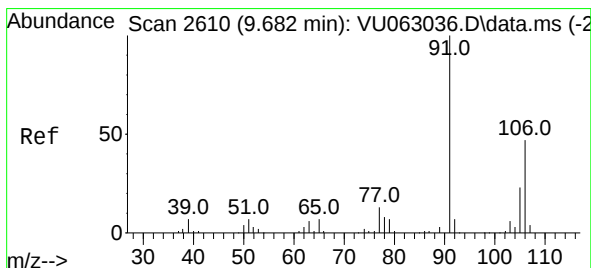
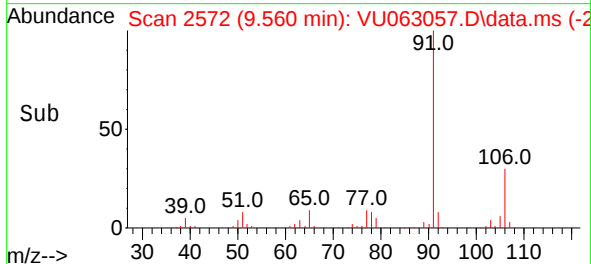
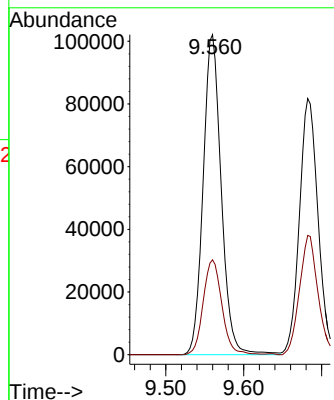
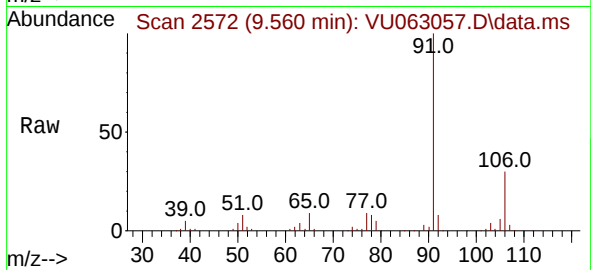




#52  
Ethylbenzene  
Concen: 4.640 ug/L  
RT: 9.560 min Scan# 2572  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

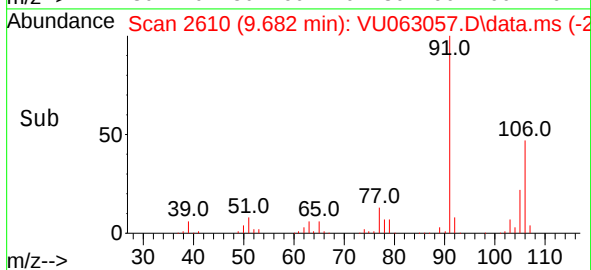
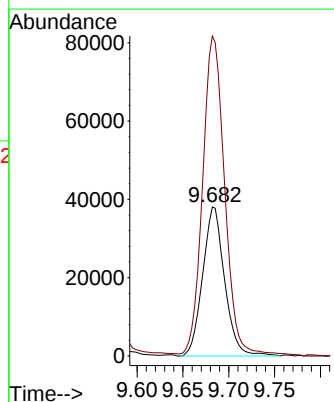
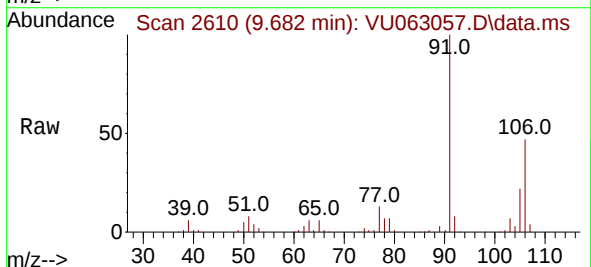
Instrument :  
MSVOA\_U  
ClientSampleId :

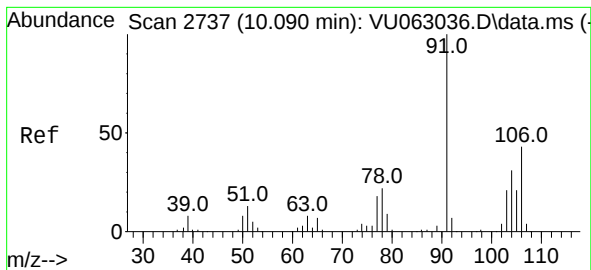
Tgt Ion: 91 Resp: 164698  
Ion Ratio Lower Upper  
91 100  
106 29.6 21.9 40.7



#53  
m,p-Xylene  
Concen: 4.620 ug/L  
RT: 9.682 min Scan# 2610  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion: 106 Resp: 63327  
Ion Ratio Lower Upper  
106 100  
91 214.9 153.1 284.3

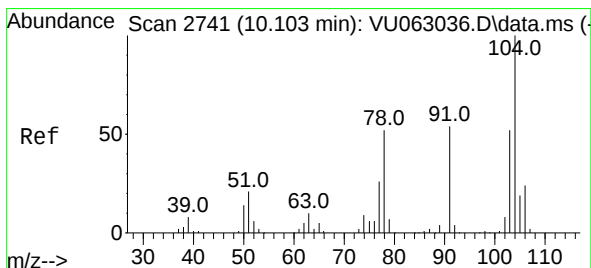
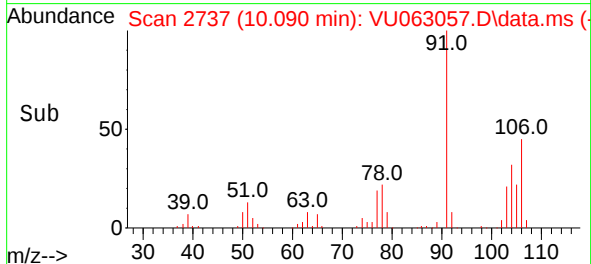
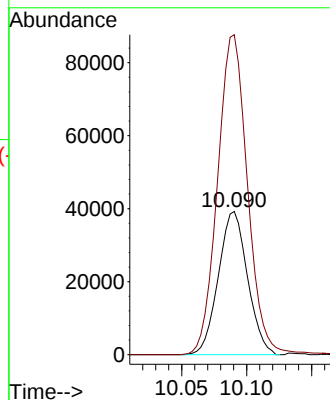
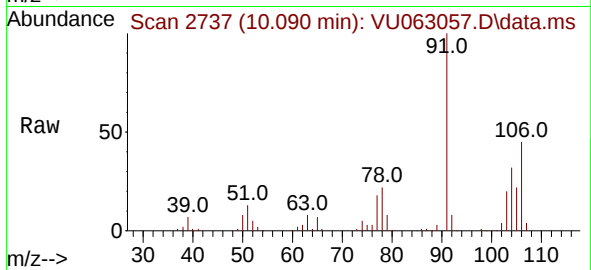




#54  
o-Xylene  
Concen: 4.877 ug/L  
RT: 10.090 min Scan# 2737  
Delta R.T. 0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

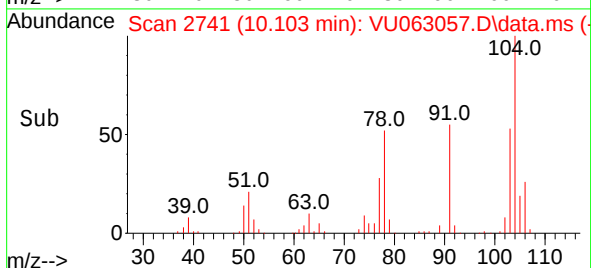
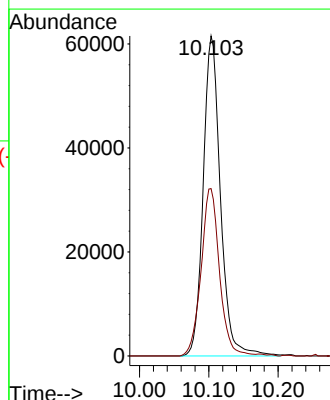
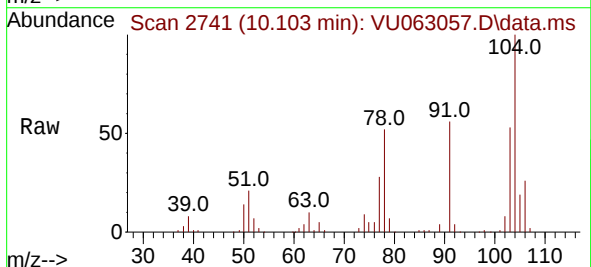
Instrument :  
MSVOA\_U  
ClientSampleId :

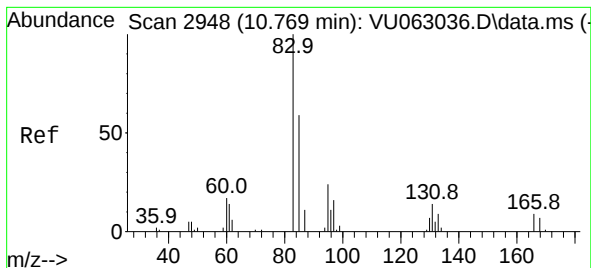
Tgt Ion:106 Resp: 61244  
Ion Ratio Lower Upper  
106 100  
91 223.5 160.4 297.8



#55  
Styrene  
Concen: 5.014 ug/L  
RT: 10.103 min Scan# 2741  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion:104 Resp: 106456  
Ion Ratio Lower Upper  
104 100  
78 52.3 35.5 65.9

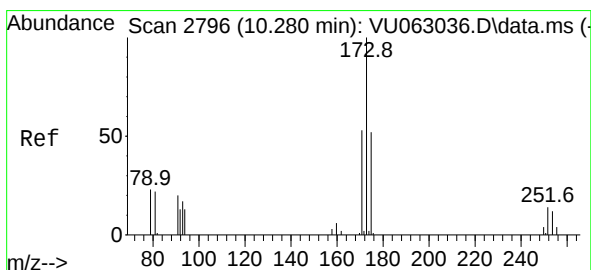
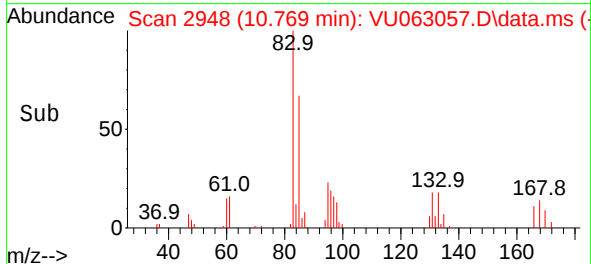
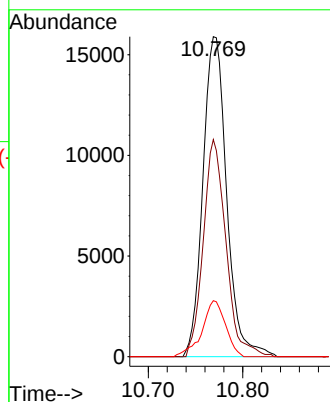
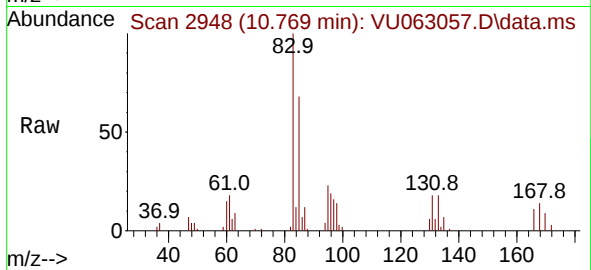




#57  
1,1,2,2-Tetrachloroethane  
Concen: 4.578 ug/L  
RT: 10.769 min Scan# 2948  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

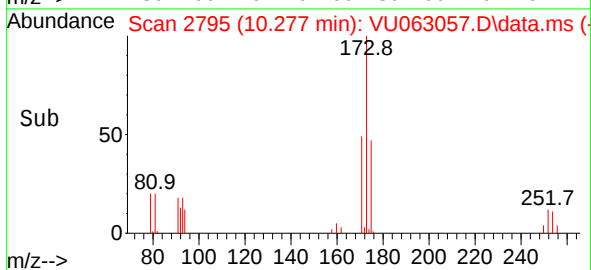
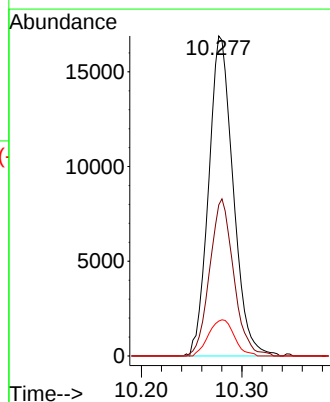
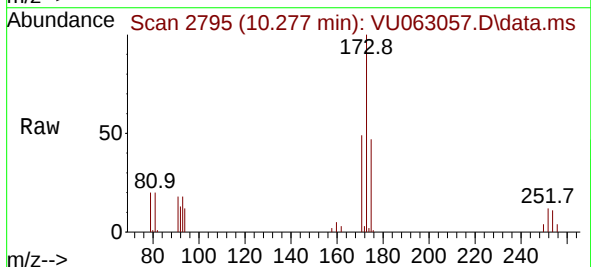
Instrument :  
MSVOA\_U  
ClientSampleId :

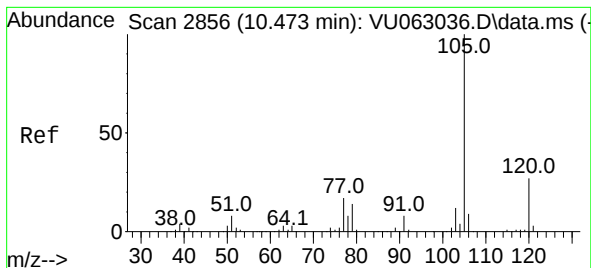
Tgt Ion: 83 Resp: 27784  
Ion Ratio Lower Upper  
83 100  
85 67.8 43.0 79.8  
131 17.5 7.4 11.0#



#59  
Bromoform  
Concen: 4.903 ug/L  
RT: 10.277 min Scan# 2795  
Delta R.T. -0.003 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

Tgt Ion:173 Resp: 28598  
Ion Ratio Lower Upper  
173 100  
175 48.0 39.8 59.8  
254 11.8 8.6 12.8





#60

Isopropylbenzene

Concen: 4.663 ug/L

RT: 10.473 min Scan# 2856

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :

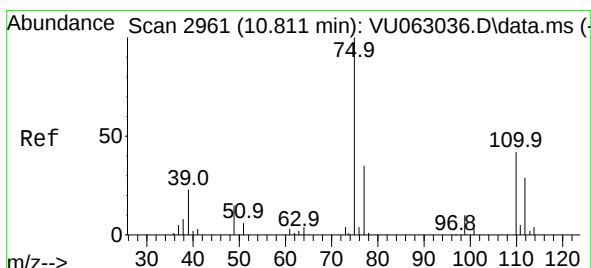
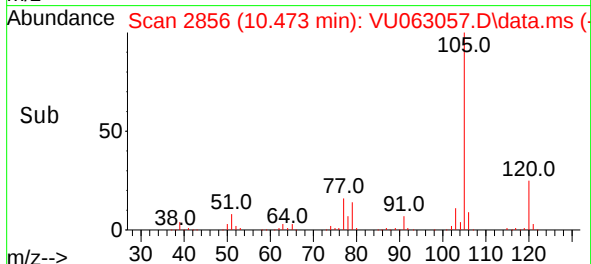
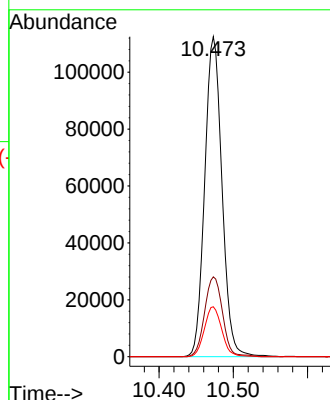
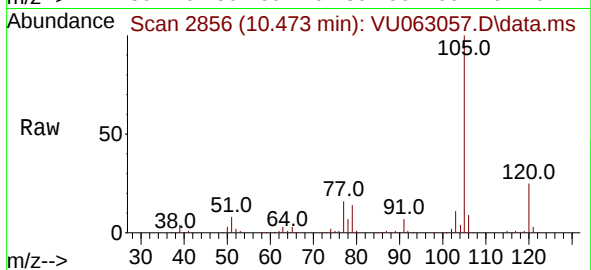
Tgt Ion:105 Resp: 181369

Ion Ratio Lower Upper

105 100

120 25.9 20.2 30.2

77 15.7 13.0 19.4



#61

1,2,3-Trichloropropane

Concen: 4.225 ug/L

RT: 10.811 min Scan# 2961

Delta R.T. -0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

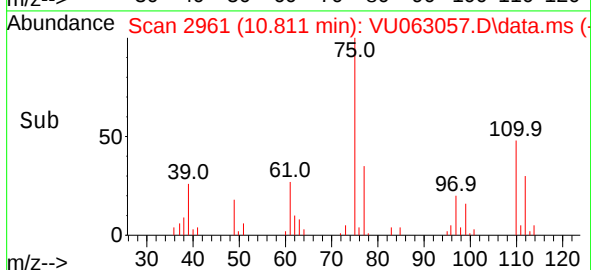
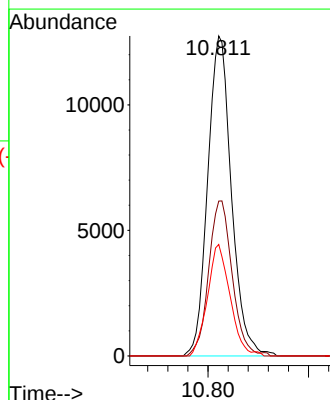
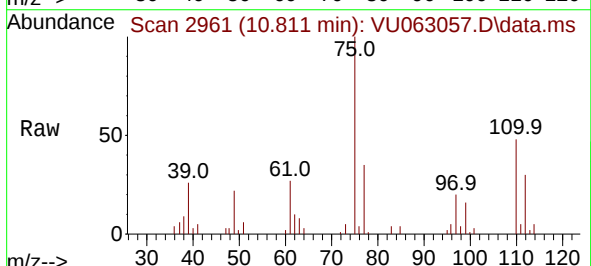
Tgt Ion: 75 Resp: 20868

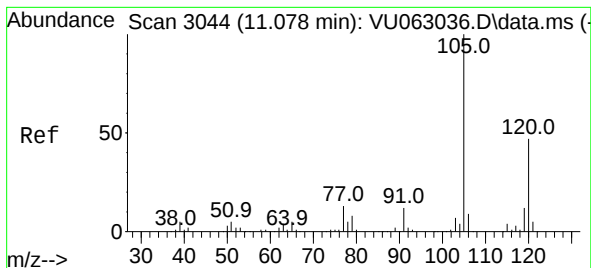
Ion Ratio Lower Upper

75 100

110 48.2 33.2 49.8

77 33.3 25.9 38.9





#62

1,3,5-Trimethylbenzene

Concen: 4.588 ug/L

RT: 11.078 min Scan# 3044

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

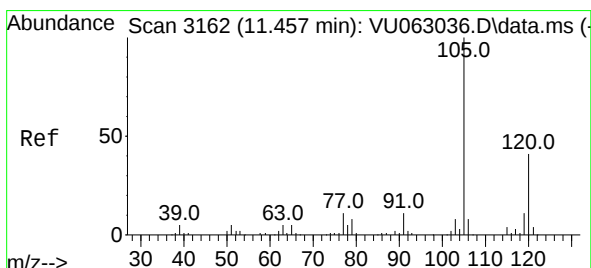
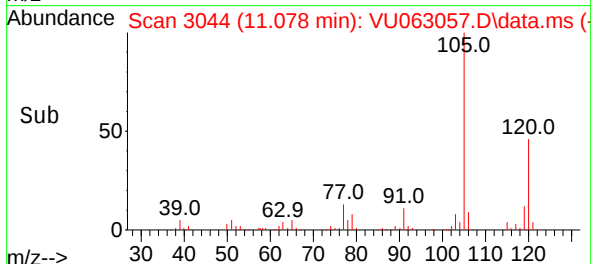
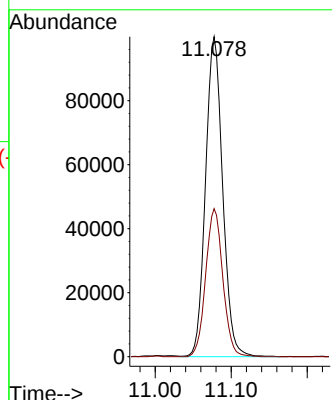
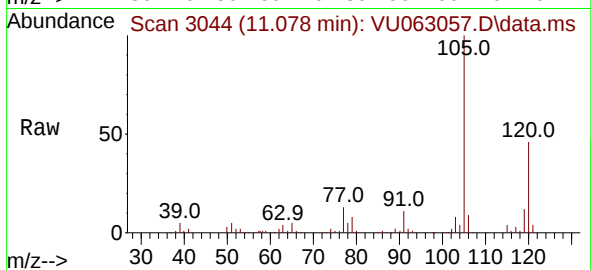
ClientSampleId :

Tgt Ion:105 Resp: 156443

Ion Ratio Lower Upper

105 100

120 46.3 35.9 53.9



#63

1,2,4-Trimethylbenzene

Concen: 4.797 ug/L

RT: 11.457 min Scan# 3162

Delta R.T. 0.000 min

Lab File: VU063057.D

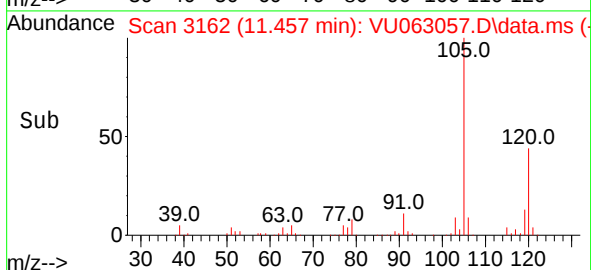
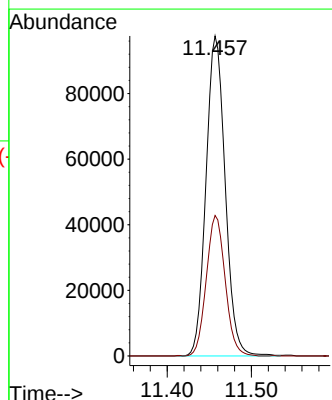
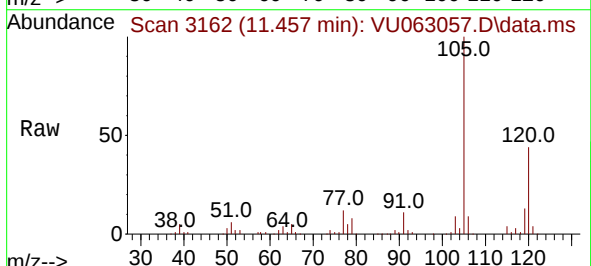
Acq: 28 Jan 2025 09:21

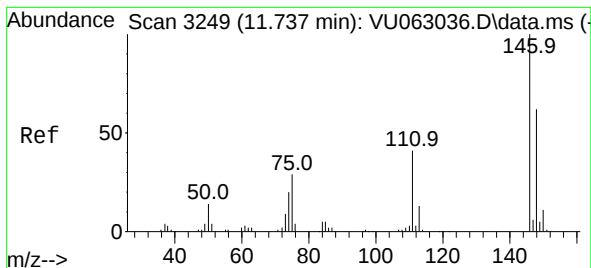
Tgt Ion:105 Resp: 154712

Ion Ratio Lower Upper

105 100

120 43.1 34.2 51.2





#64

1,3-Dichlorobenzene

Concen: 4.738 ug/L

RT: 11.737 min Scan# 3249

Delta R.T. 0.000 min

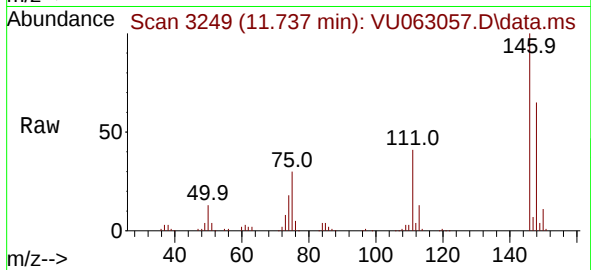
Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :



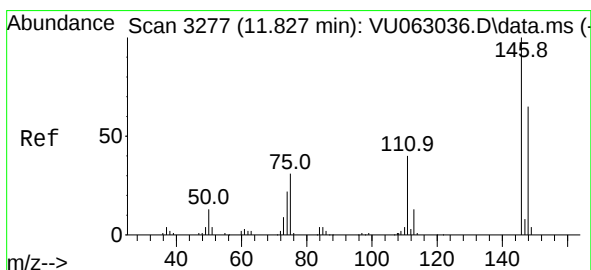
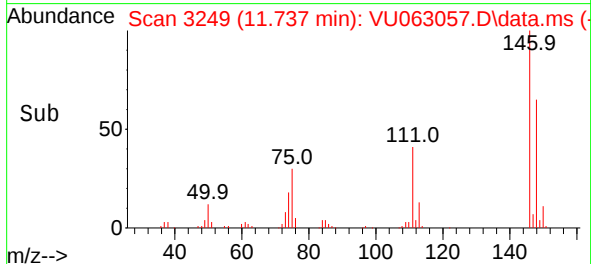
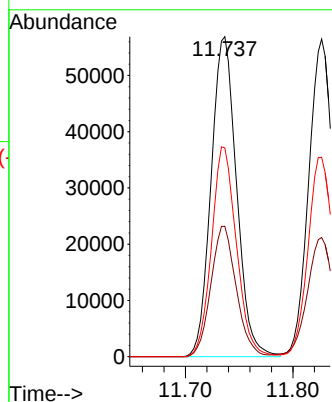
Tgt Ion:146 Resp: 93564

Ion Ratio Lower Upper

146 100

111 40.7 28.6 53.0

148 65.3 44.0 81.6



#65

1,4-Dichlorobenzene

Concen: 4.695 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

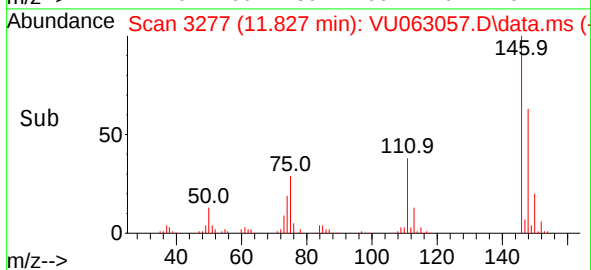
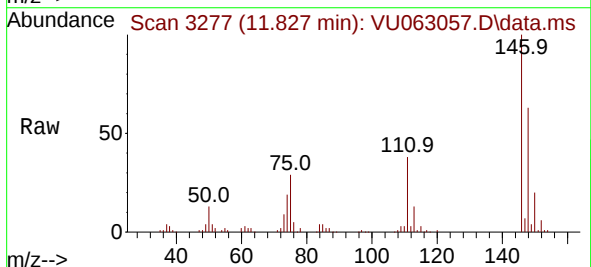
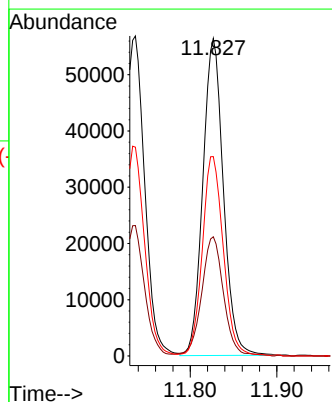
Tgt Ion:146 Resp: 92994

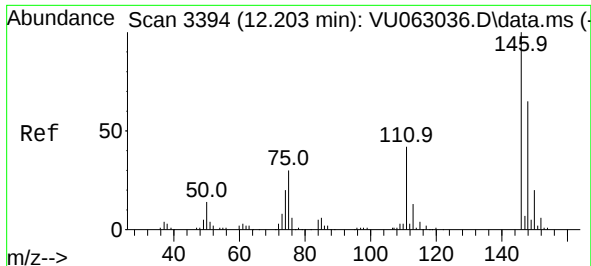
Ion Ratio Lower Upper

146 100

111 37.5 29.5 54.9

148 62.8 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 4.579 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :

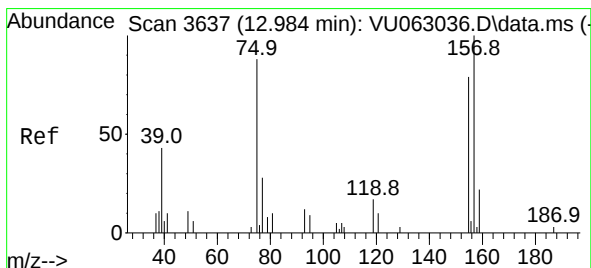
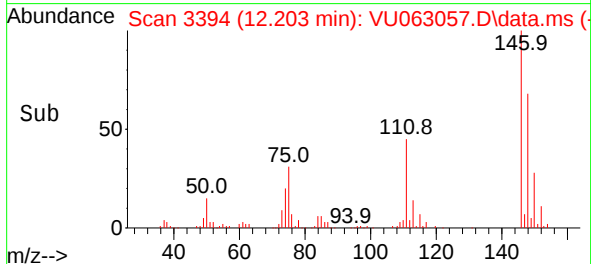
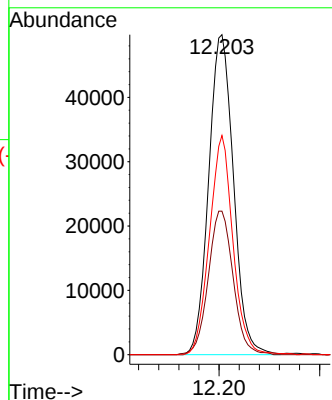
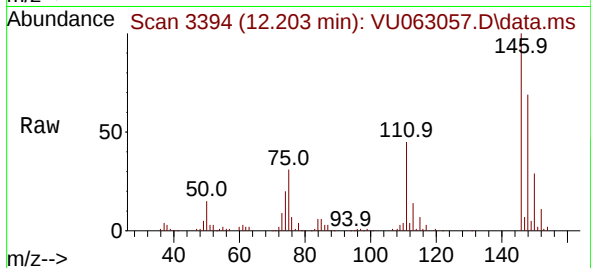
Tgt Ion:146 Resp: 85073

Ion Ratio Lower Upper

146 100

111 44.8 36.3 54.5

148 68.5 52.0 78.0



#68

1,2-Dibromo-3-chloropropane

Concen: 4.812 ug/L

RT: 12.981 min Scan# 3636

Delta R.T. -0.003 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

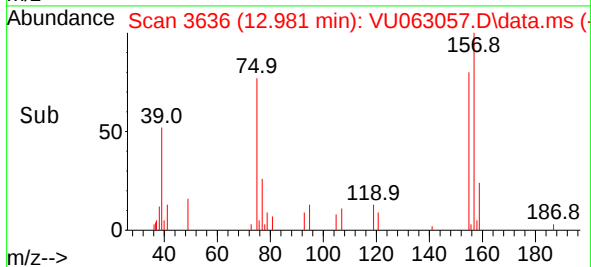
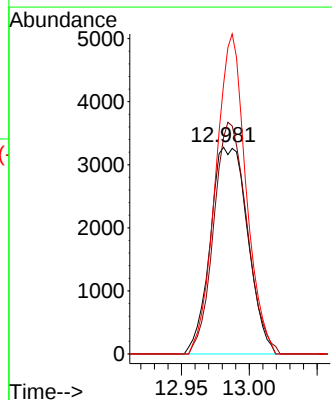
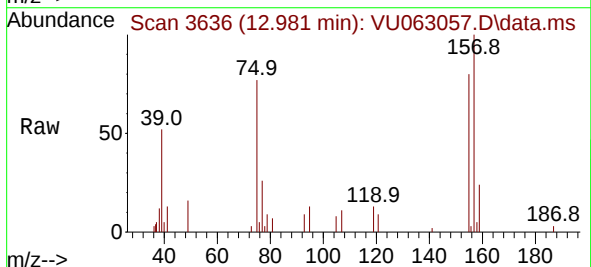
Tgt Ion: 75 Resp: 6285

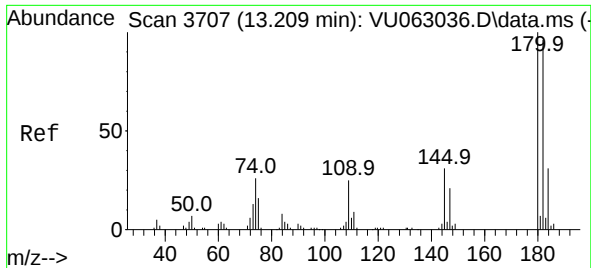
Ion Ratio Lower Upper

75 100

155 104.6 59.6 89.4#

157 130.4 70.8 106.2#





#69

1,3,5-Trichlorobenzene

Concen: 4.737 ug/L

RT: 13.209 min Scan# 31

Delta R.T. -0.000 min

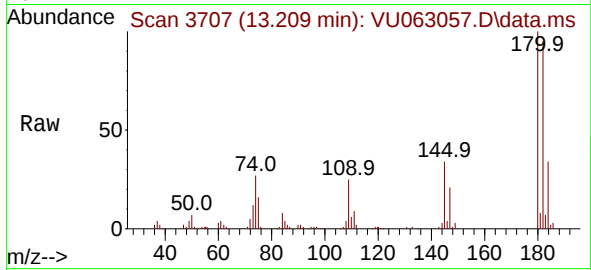
Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 74735

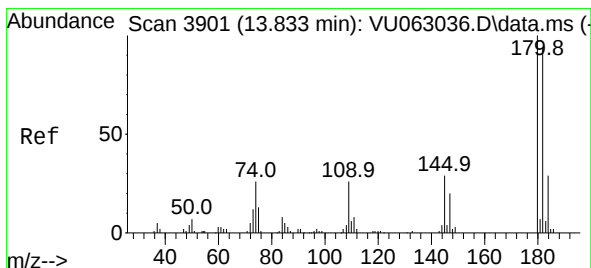
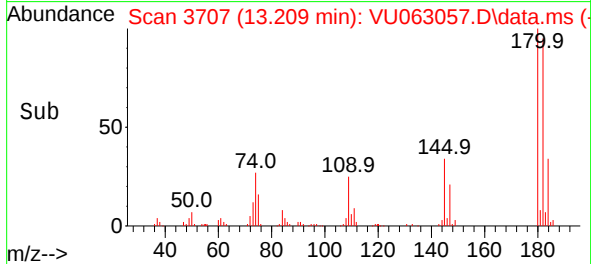
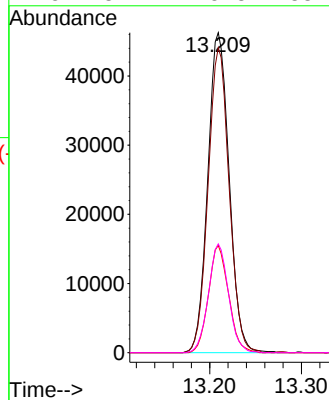
Ion Ratio Lower Upper

180 100

182 94.0 75.8 113.8

184 31.7 24.7 37.1

145 32.1 25.8 38.6



#70

1,2,4-trichlorobenzene

Concen: 5.000 ug/L

RT: 13.830 min Scan# 3900

Delta R.T. -0.003 min

Lab File: VU063057.D

Acq: 28 Jan 2025 09:21

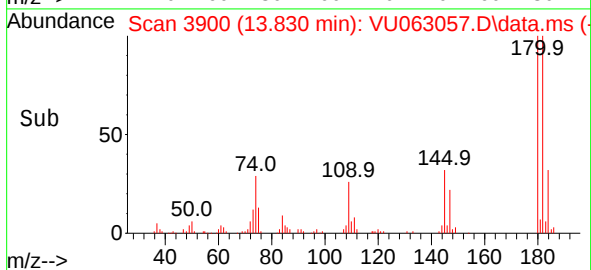
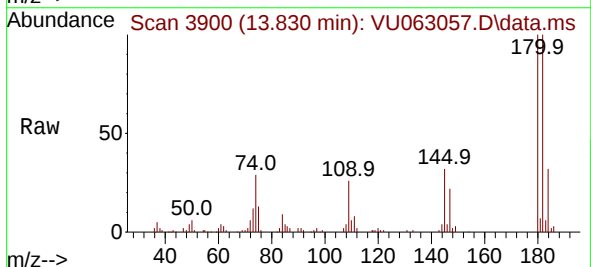
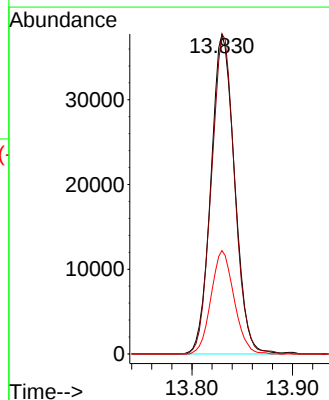
Tgt Ion:180 Resp: 61730

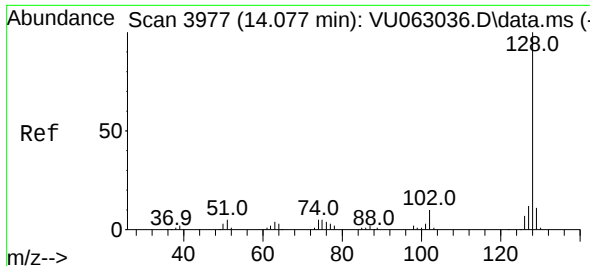
Ion Ratio Lower Upper

180 100

182 97.9 77.1 115.7

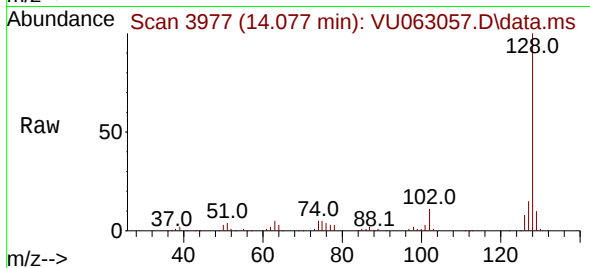
145 31.4 26.9 40.3



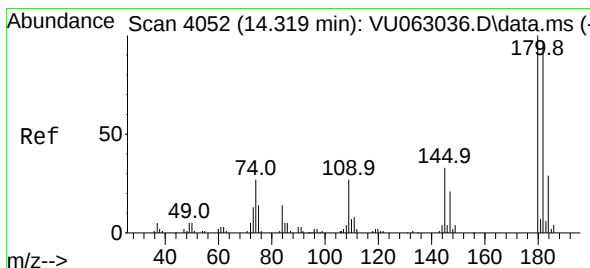
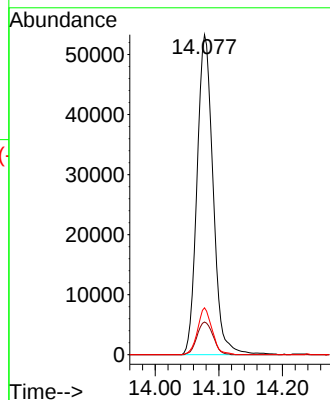
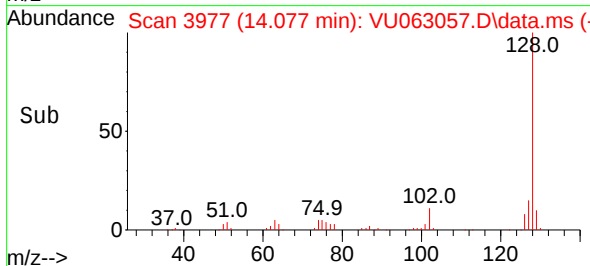


#71  
Naphthalene  
Concen: 5.889 ug/L  
RT: 14.077 min Scan# 3977  
Delta R.T. -0.000 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21

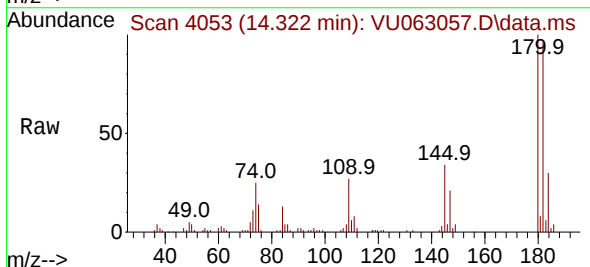
Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 93288  
Ion Ratio Lower Upper  
128 100  
129 10.2 8.5 12.7  
127 13.3 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 4.953 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. 0.003 min  
Lab File: VU063057.D  
Acq: 28 Jan 2025 09:21



Tgt Ion:180 Resp: 52832  
Ion Ratio Lower Upper  
180 100  
182 97.3 79.8 119.6  
145 35.0 29.2 43.8

