

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011525\  
 Data File : VU062802.D  
 Acq On : 16 Jan 2025 06:33  
 Operator : MD/SY  
 Sample : Q1071-13MSD  
 Misc : 25mL/MSVOA\_U/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCQ77MSD

Quant Time: Jan 16 07:01:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR010225WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Jan 16 01:55:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.239  | 114   | 97605    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.406  | 117   | 91684    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.801 | 152   | 48603    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 16746    | 3.098    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 62.000%  |
| 7) Chloroethane-d5            | 1.901  | 69    | 16236    | 3.734    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 74.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 9502     | 3.393    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 67.800%  |
| 20) 2-Butanone-d5             | 4.608  | 46    | 63785    | 57.733   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 115.460% |
| 24) Chloroform-d              | 5.049  | 84    | 58892    | 4.428    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.689  | 65    | 33398    | 4.630    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 92.600%  |
| 32) Benzene-d6                | 5.714  | 84    | 91126    | 4.066    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 81.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.679  | 67    | 27434    | 4.415    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 88.200%  |
| 41) Toluene-d8                | 7.888  | 98    | 87170    | 3.992    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.800%  |
| 43) trans-1,3-Dichloroprop... | 8.171  | 79    | 13813    | 4.459    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 89.200%  |
| 46) 2-Hexanone-d5             | 8.618  | 63    | 49941    | 51.265   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 102.520% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.743 | 84    | 27823    | 5.346    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 107.000% |
| 66) 1,2-Dichlorobenzene-d4    | 12.184 | 152   | 37124    | 4.591    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 91.800%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          | Qvalue   |        |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 43762    | 4.706    | ug/L   | 100      |
| 3) Chloromethane              | 1.515  | 50    | 28052    | 4.495    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.599  | 62    | 77326    | 11.005   | ug/L   | 97       |
| 6) Bromomethane               | 1.843  | 94    | 15591    | 3.050    | ug/L   | 98       |
| 8) Chloroethane               | 1.924  | 64    | 175422   | 41.555   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.129  | 101   | 68615    | 4.841    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570  | 101   | 34577    | 5.049    | ug/L   | 93       |
| 12) 1,1-Dichloroethene        | 2.570  | 96    | 1213819  | 200.330  | ug/L # | 73       |
| 13) Acetone                   | 2.612  | 43    | 42820    | 48.925   | ug/L   | 93       |
| 14) Carbon disulfide          | 2.782  | 76    | 86297    | 4.459    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.940  | 43    | 5312     | 2.803    | ug/L   | 97       |
| 16) Methylene chloride        | 3.033  | 84    | 31232    | 4.706    | ug/L   | 95       |
| 17) Methyl tert-butyl Ether   | 3.348  | 73    | 84467    | 5.072    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.342  | 96    | 113242   | 17.445   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.853  | 63    | 709240   | 61.108   | ug/L   | 96       |
| 21) 2-Butanone                | 4.682  | 43    | 63322    | 54.325   | ug/L # | 1        |
| 22) cis-1,2-Dichloroethene    | 4.647  | 96    | 3153706  | 446.119  | ug/L   | 98       |
| 23) Bromochloromethane        | 4.962  | 128   | 16928    | 5.073    | ug/L   | 96       |
| 25) Chloroform                | 5.075  | 83    | 69408    | 4.859    | ug/L   | 100      |

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 Sample : Q1071-13MSD  
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 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 GCQ77MSD

Quant Time: Jan 16 07:01:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR010225WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Jan 16 01:55:19 2025  
 Response via : Initial Calibration

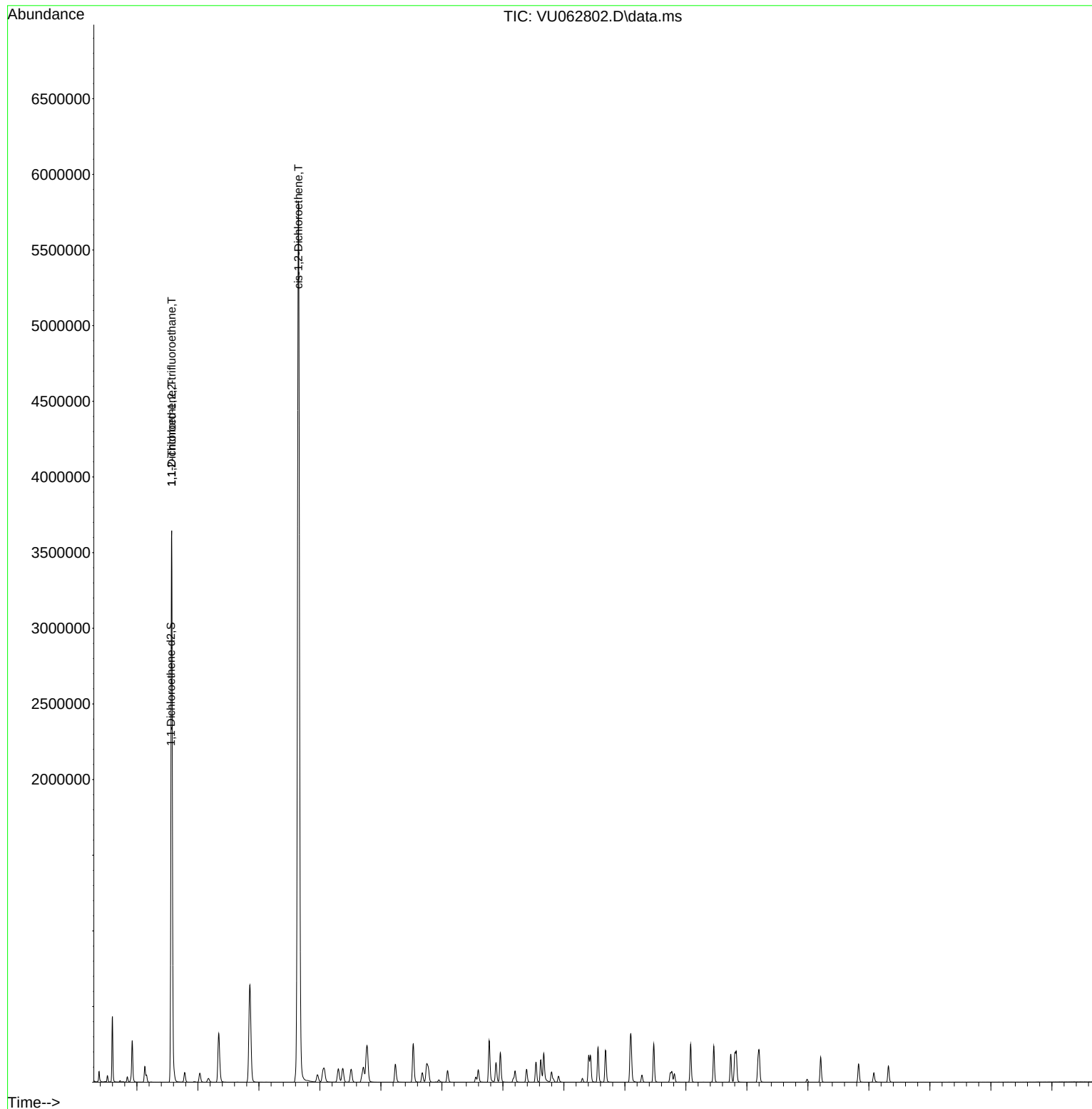
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.779  | 62   | 157070   | 16.817 | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane     | 5.303  | 97   | 67971    | 4.888  | ug/L   | 98       |
| 30) Cyclohexane               | 5.374  | 56   | 43431    | 4.782  | ug/L   | 94       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 63082    | 4.936  | ug/L   | 97       |
| 33) Benzene                   | 5.759  | 78   | 138329   | 5.251  | ug/L   | 100      |
| 34) Trichloroethene           | 6.528  | 95   | 87019    | 9.670  | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.753  | 83   | 50077    | 4.523  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.775  | 63   | 29993    | 4.827  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.094  | 83   | 49982    | 5.002  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 7.595  | 75   | 48215    | 4.557  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.775  | 43   | 156869   | 54.042 | ug/L   | 99       |
| 42) Toluene                   | 7.959  | 91   | 144018   | 4.989  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.200  | 75   | 42616    | 4.672  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 8.386  | 97   | 26337    | 5.219  | ug/L   | 94       |
| 47) Tetrachloroethene         | 8.544  | 164  | 28922    | 4.667  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.669  | 43   | 114261   | 54.753 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.798  | 129  | 35184    | 5.192  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.910  | 107  | 26131    | 5.412  | ug/L # | 99       |
| 51) Chlorobenzene             | 9.435  | 112  | 91965    | 4.872  | ug/L   | 98       |
| 52) Ethylbenzene              | 9.560  | 91   | 162442   | 4.959  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.682  | 106  | 59740    | 4.877  | ug/L   | 97       |
| 54) o-Xylene                  | 10.090 | 106  | 58342    | 4.972  | ug/L   | 99       |
| 55) Styrene                   | 10.103 | 104  | 99147    | 5.051  | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.769 | 83   | 30390    | 5.368  | ug/L # | 95       |
| 59) Bromoform                 | 10.280 | 173  | 22008    | 5.191  | ug/L   | 96       |
| 60) Isopropylbenzene          | 10.473 | 105  | 163978   | 4.896  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.811 | 75   | 22716    | 5.269  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.078 | 105  | 138729   | 4.873  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.457 | 105  | 132849   | 4.824  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.737 | 146  | 77427    | 4.986  | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.827 | 146  | 75734    | 4.837  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.203 | 146  | 73031    | 5.018  | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.984 | 75   | 5909     | 5.291  | ug/L   | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.209 | 180  | 51341    | 4.390  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.830 | 180  | 39442    | 4.188  | ug/L   | 96       |
| 71) Naphthalene               | 14.081 | 128  | 57290    | 4.157  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 34849    | 4.245  | ug/L   | 93       |

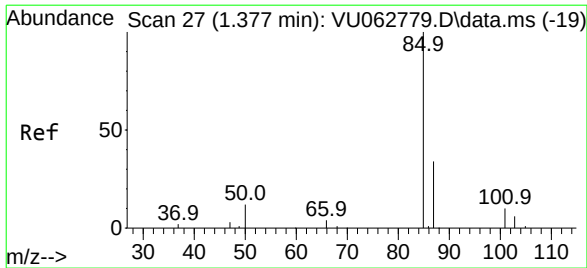
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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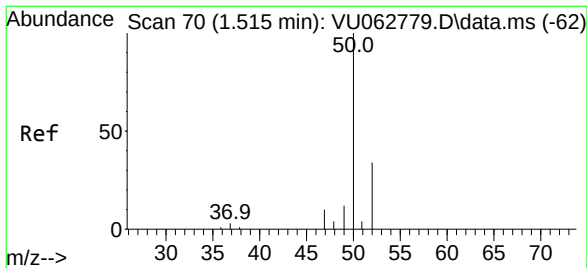
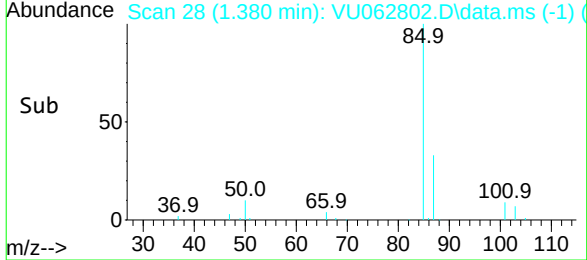
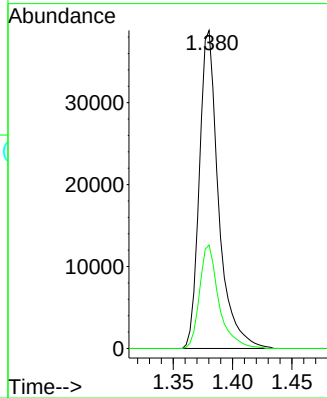
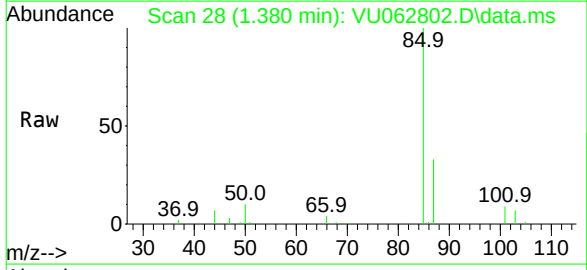




#2  
 Dichlorodifluoromethane  
 Concen: 4.706 ug/L  
 RT: 1.380 min Scan# 28  
 Delta R.T. 0.003 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

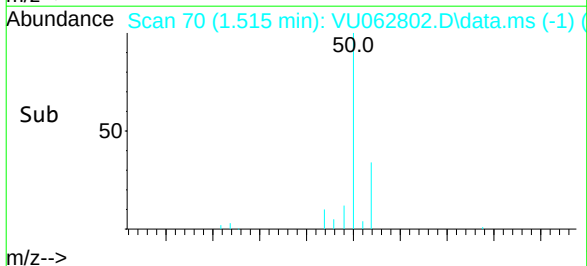
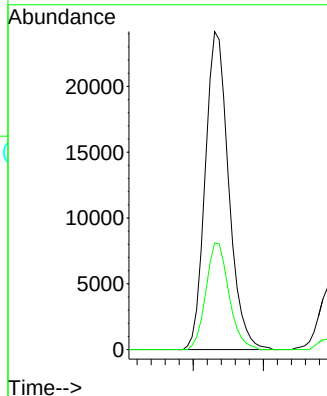
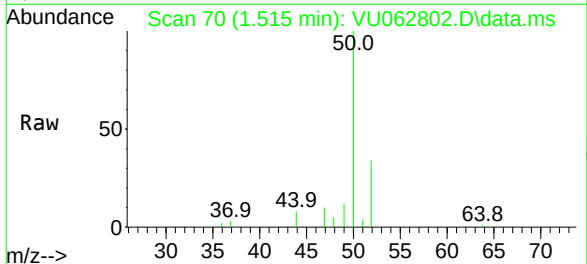
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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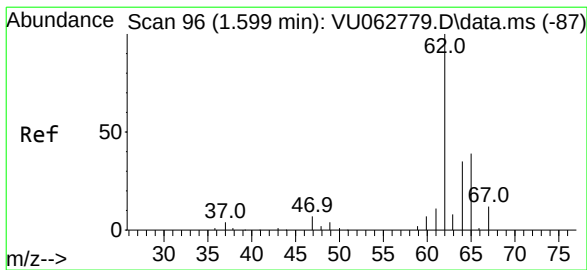
Tgt Ion: 85 Resp: 43762  
 Ion Ratio Lower Upper  
 85 100  
 87 32.7 26.1 39.1



#3  
 Chloromethane  
 Concen: 4.495 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

Tgt Ion: 50 Resp: 28052  
 Ion Ratio Lower Upper  
 50 100  
 52 33.5 24.1 44.7





#5

Vinyl chloride

Concen: 11.005 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU062802.D

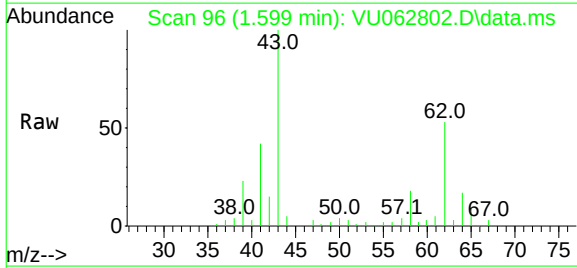
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Instrument :

MSVOA\_U

ClientSampleId :

GCQ77MSD

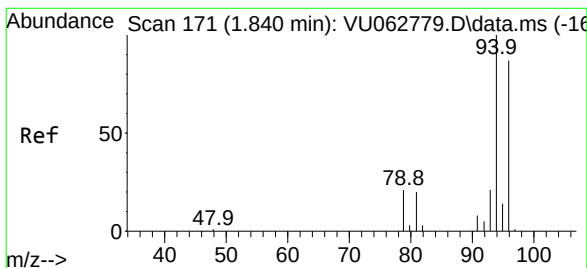
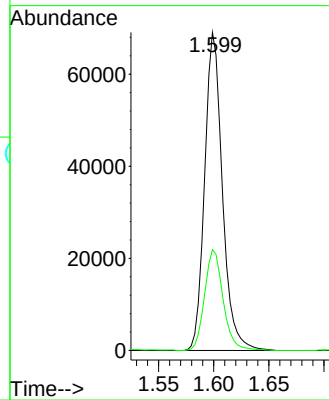
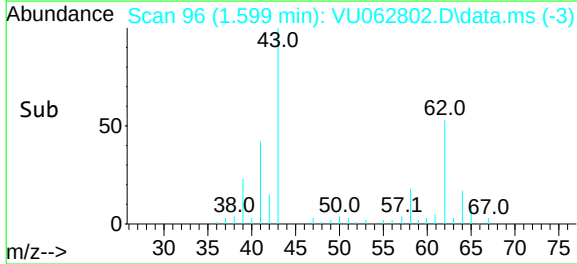


Tgt Ion: 62 Resp: 77326

Ion Ratio Lower Upper

62 100

64 31.7 23.4 43.4



#6

Bromomethane

Concen: 3.050 ug/L

RT: 1.843 min Scan# 172

Delta R.T. 0.003 min

Lab File: VU062802.D

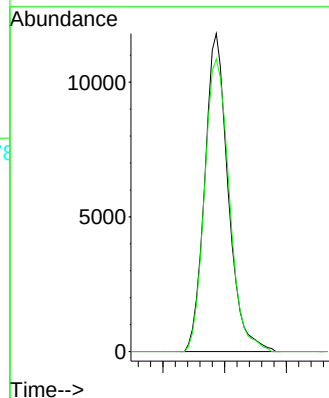
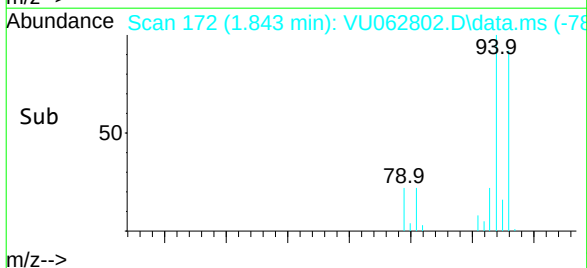
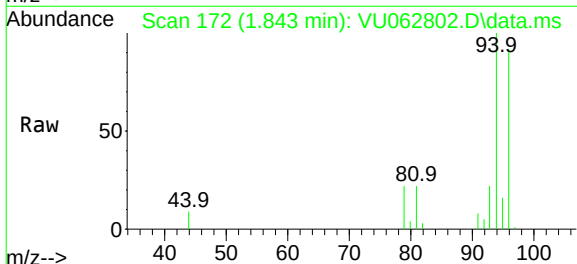
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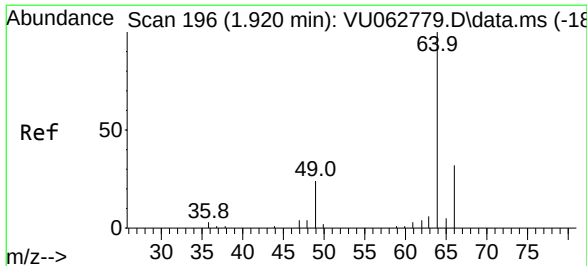
Tgt Ion: 94 Resp: 15591

Ion Ratio Lower Upper

94 100

96 92.0 62.9 116.7

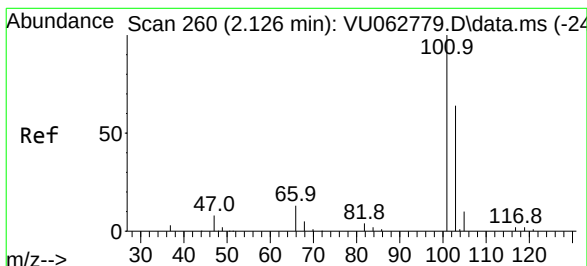
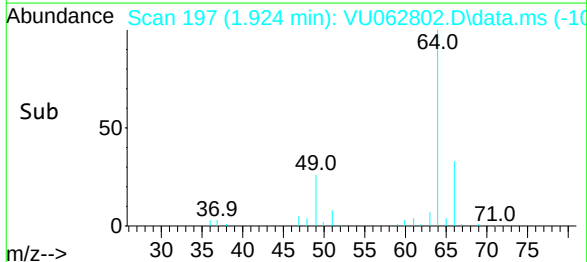
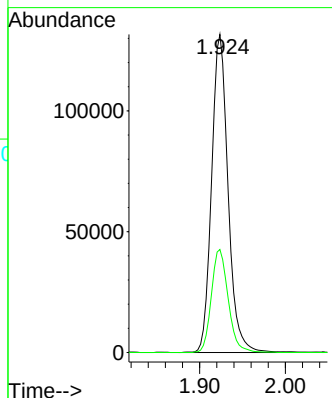
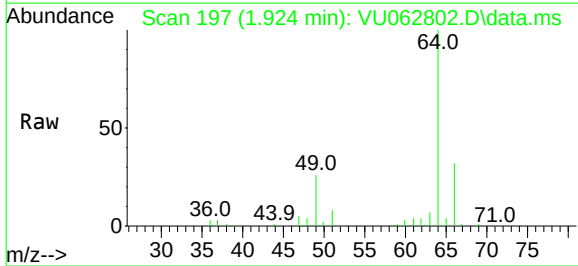




#8  
Chloroethane  
Concen: 41.555 ug/L  
RT: 1.924 min Scan# 19  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

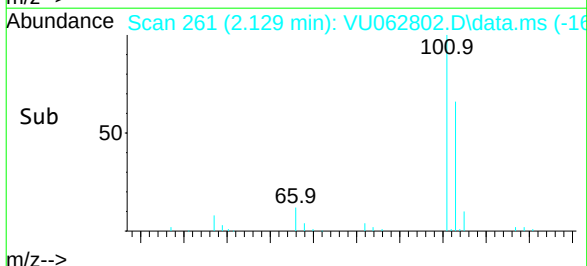
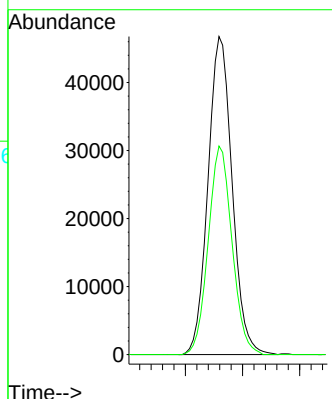
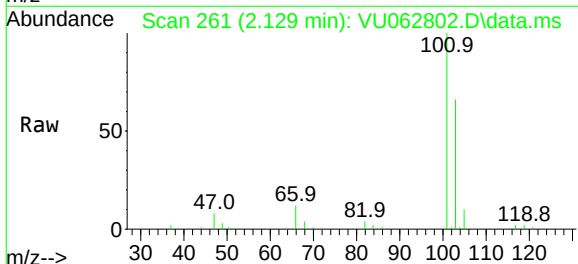
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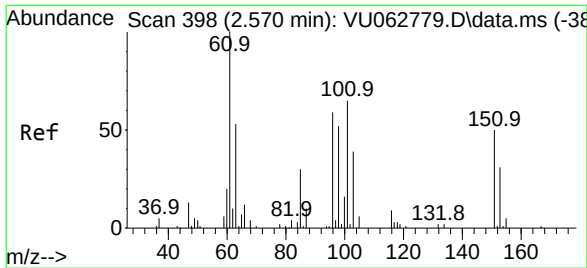
Tgt Ion: 64 Resp: 175422  
Ion Ratio Lower Upper  
64 100  
66 32.4 21.6 40.2



#9  
Trichlorofluoromethane  
Concen: 4.841 ug/L  
RT: 2.129 min Scan# 261  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion: 101 Resp: 68615  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.4 77.0

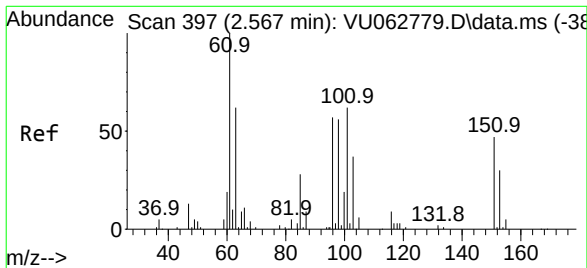
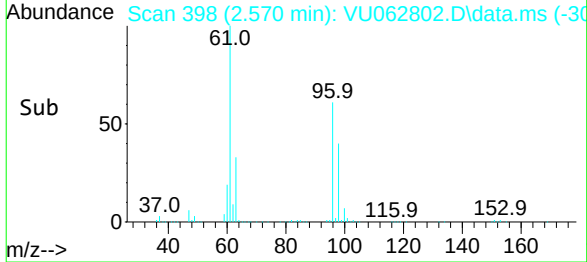
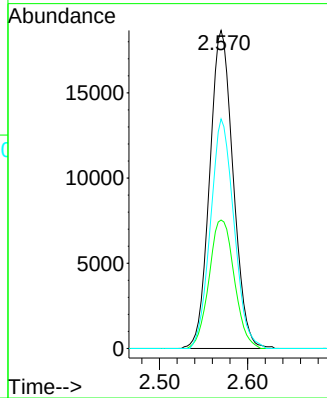
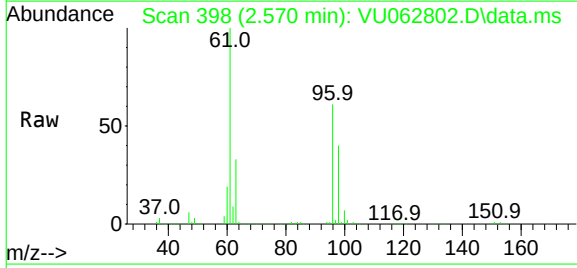




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.049 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

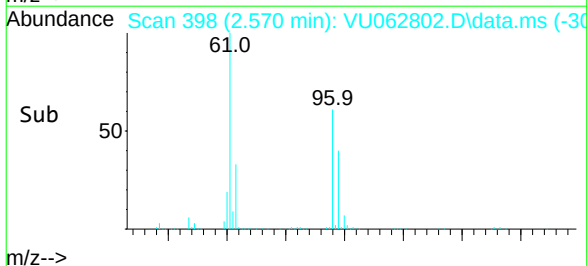
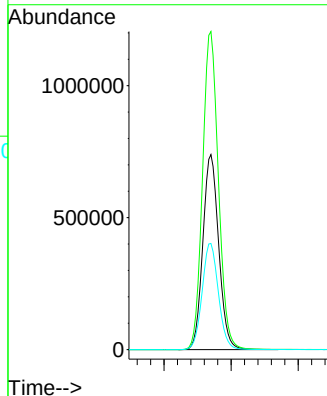
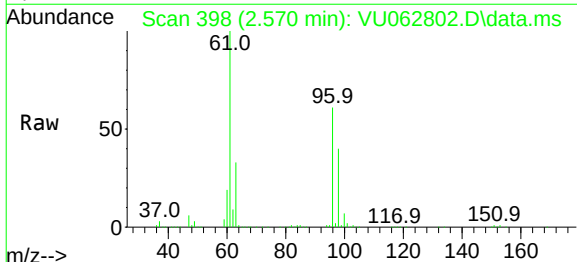
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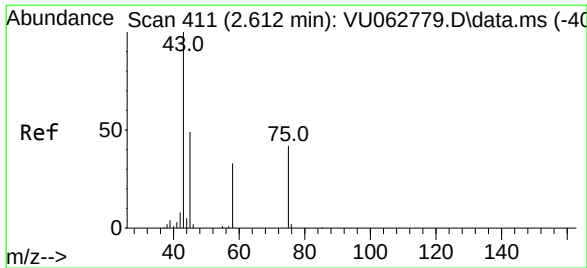
Tgt Ion: 101 Resp: 34577  
Ion Ratio Lower Upper  
101 100  
85 43.4 37.0 55.6  
151 72.4 64.4 96.6



#12  
1,1-Dichloroethene  
Concen: 200.330 ug/L  
RT: 2.570 min Scan# 398  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion: 96 Resp: 1213819  
Ion Ratio Lower Upper  
96 100  
61 163.1 120.4 223.6  
63 54.4 82.3 152.9#





#13

Acetone

Concen: 48.925 ug/L

RT: 2.612 min Scan# 411

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

Instrument :

MSVOA\_U

ClientSampleId :

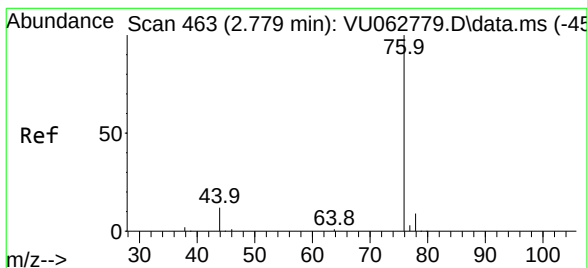
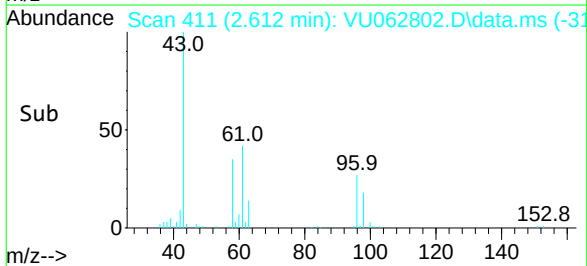
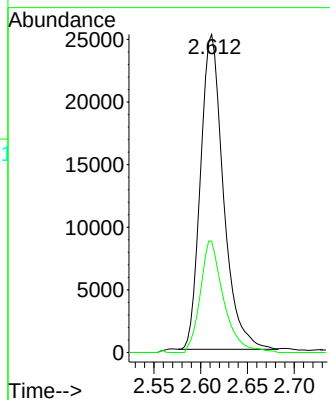
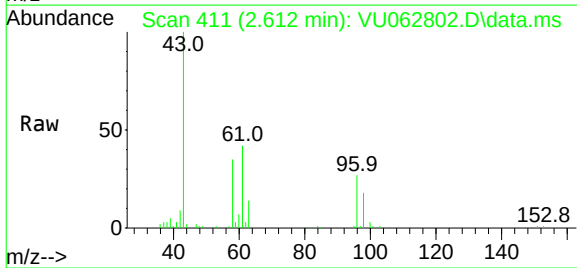
GCQ77MSD

Tgt Ion: 43 Resp: 42820

Ion Ratio Lower Upper

43 100

58 36.1 0.0 64.4



#14

Carbon disulfide

Concen: 4.459 ug/L

RT: 2.782 min Scan# 464

Delta R.T. 0.003 min

Lab File: VU062802.D

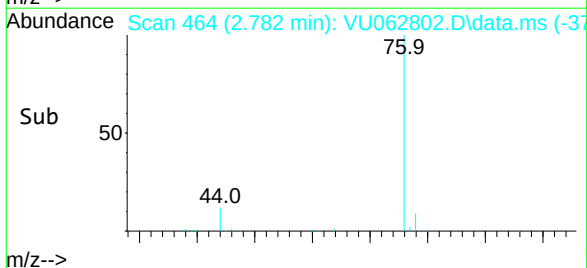
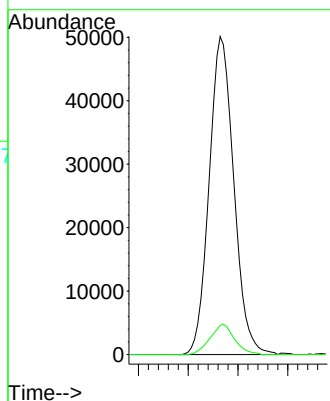
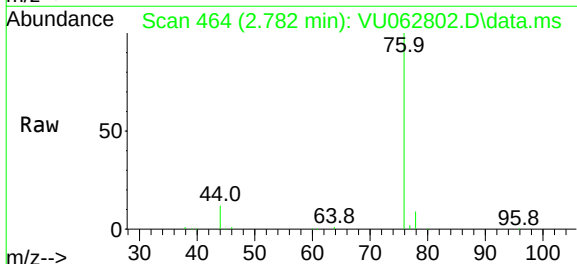
Acq: 16 Jan 2025 06:33

Tgt Ion: 76 Resp: 86297

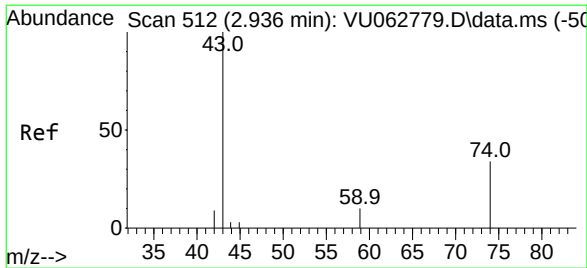
Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.6



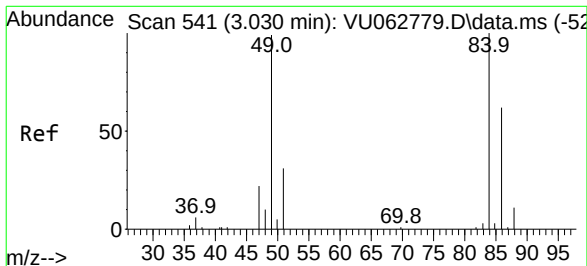
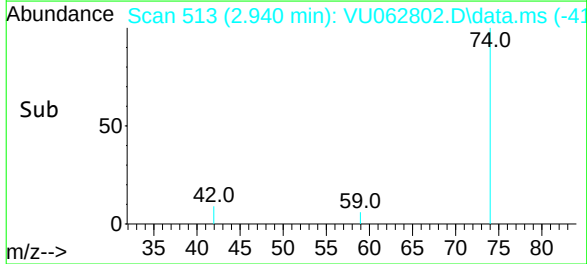
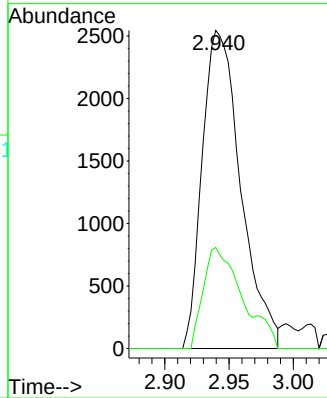
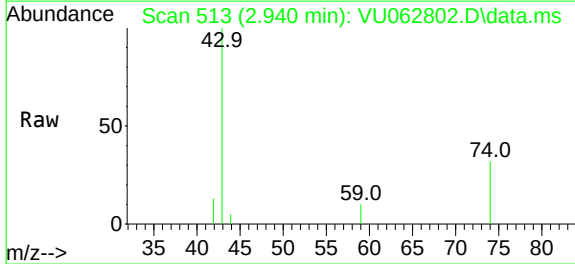




#15  
Methyl Acetate  
Concen: 2.803 ug/L  
RT: 2.940 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

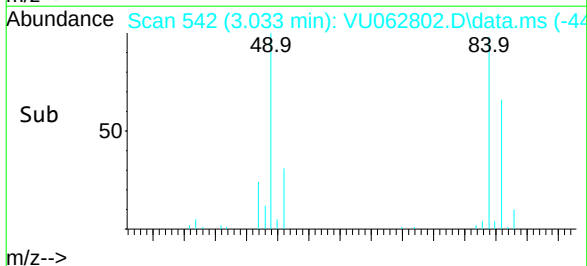
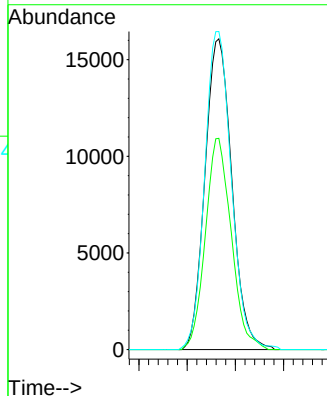
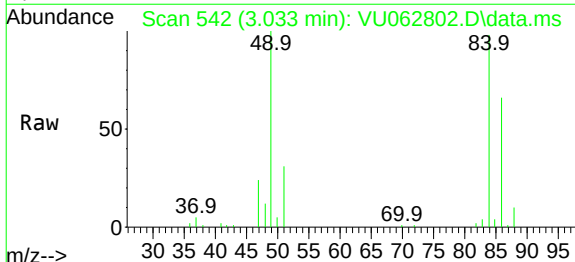
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

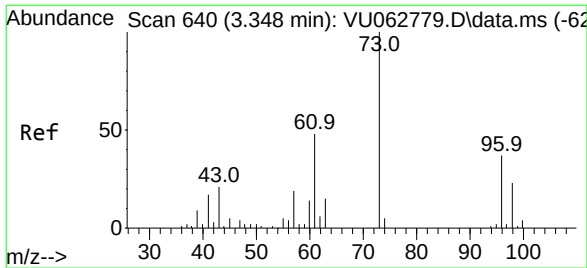
Tgt Ion: 43 Resp: 5312  
Ion Ratio Lower Upper  
43 100  
74 32.2 24.4 36.6



#16  
Methylene chloride  
Concen: 4.706 ug/L  
RT: 3.033 min Scan# 542  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

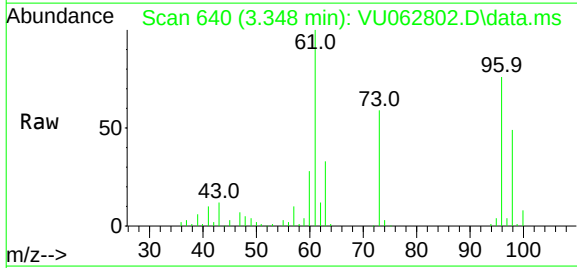
Tgt Ion: 84 Resp: 31232  
Ion Ratio Lower Upper  
84 100  
86 68.0 44.7 83.1  
49 102.3 68.3 126.9



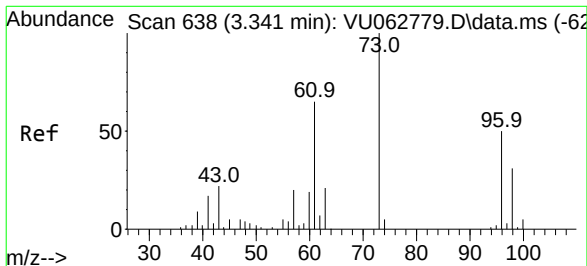
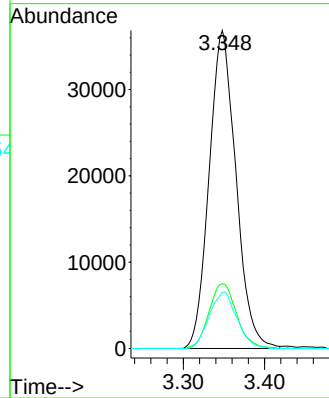
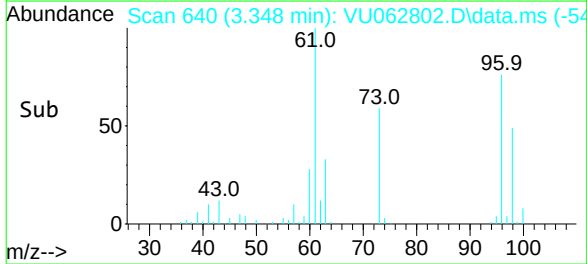


#17  
Methyl tert-butyl Ether  
Concen: 5.072 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

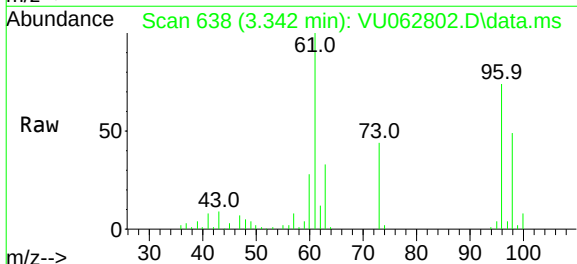
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD



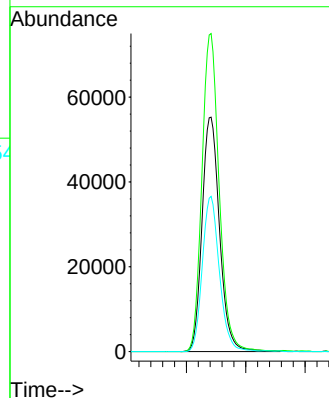
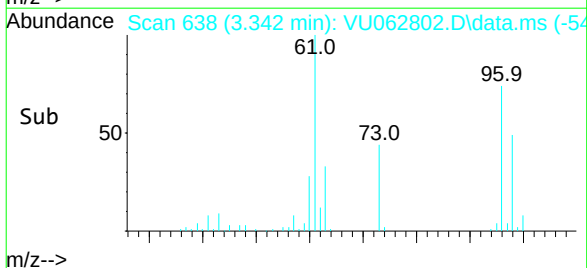
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 84467 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 43       | 21.0  | 16.2  | 24.4  |
| 57       | 18.3  | 14.6  | 22.0  |

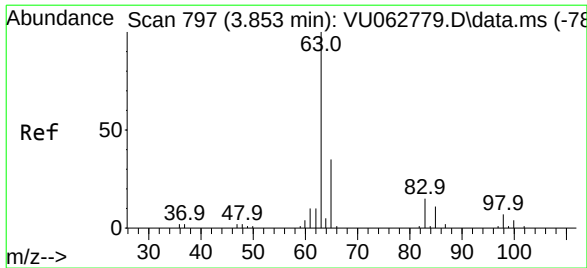


#18  
trans-1,2-Dichloroethene  
Concen: 17.445 ug/L  
RT: 3.342 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 113242 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 135.7 | 94.4  | 175.2  |
| 98       | 66.2  | 42.8  | 79.4   |

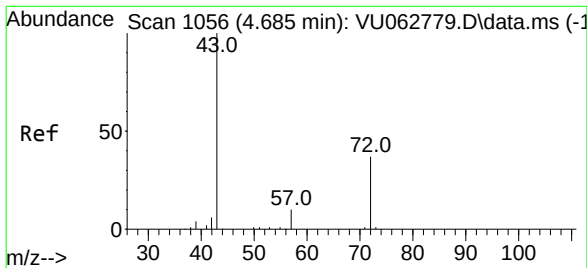
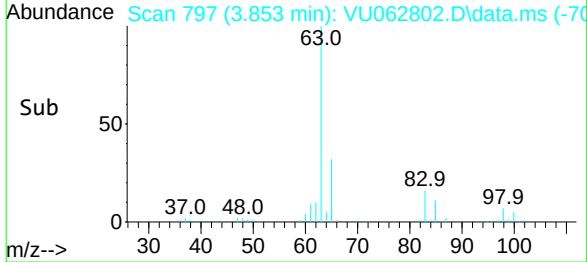
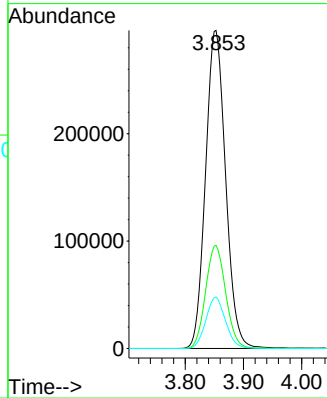
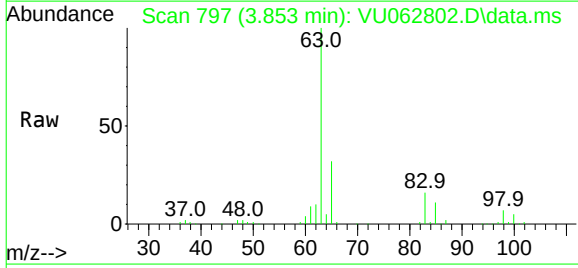




#19  
1,1-Dichloroethane  
Concen: 61.108 ug/L  
RT: 3.853 min Scan# 79  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

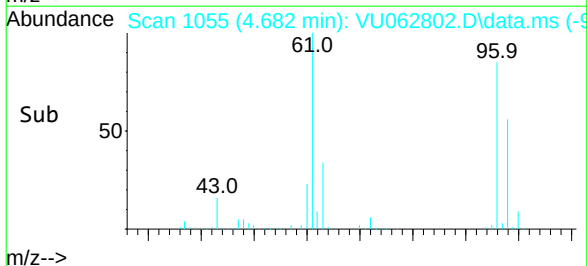
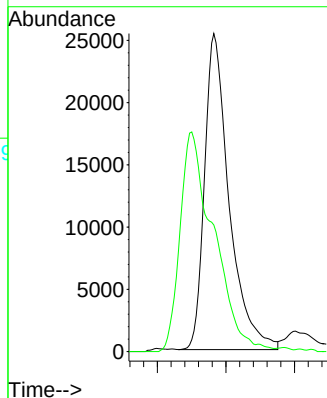
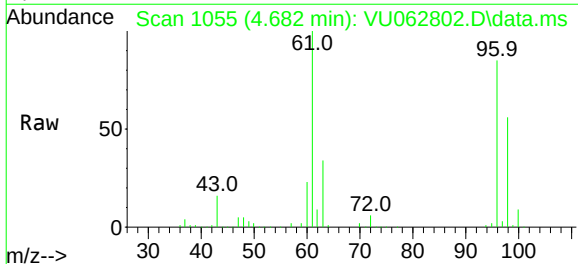
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

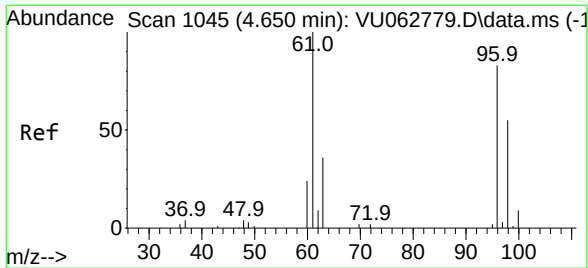
Tgt Ion: 63 Resp: 709240  
Ion Ratio Lower Upper  
63 100  
65 32.4 20.7 38.5  
83 16.2 10.5 19.5



#21  
2-Butanone  
Concen: 54.325 ug/L  
RT: 4.682 min Scan# 1055  
Delta R.T. -0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

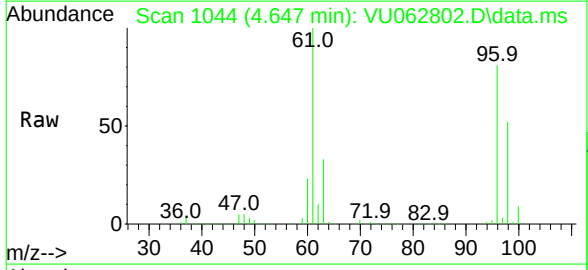
Tgt Ion: 43 Resp: 63322  
Ion Ratio Lower Upper  
43 100  
72 94.9 17.1 51.2#





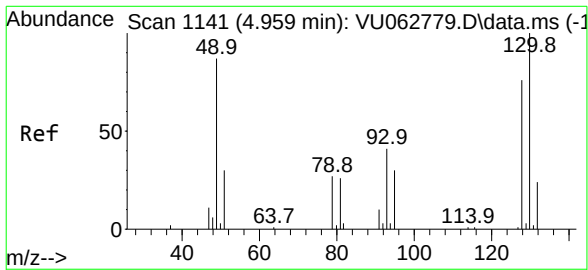
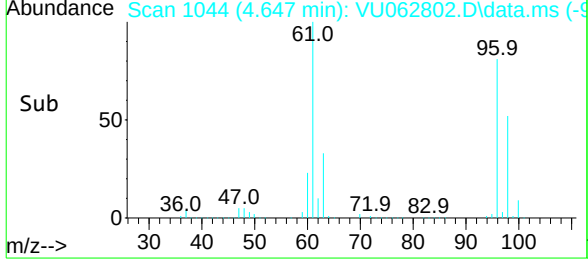
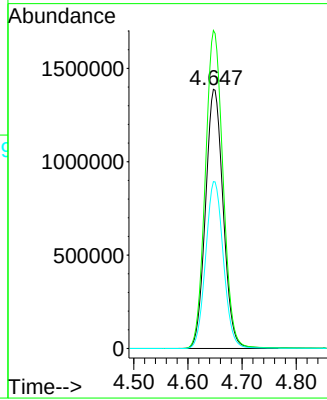
#22  
 cis-1,2-Dichloroethene  
 Concen: 446.119 ug/L  
 RT: 4.647 min Scan# 1045  
 Delta R.T. -0.003 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCQ77MSD



Tgt Ion: 96 Resp: 3153706

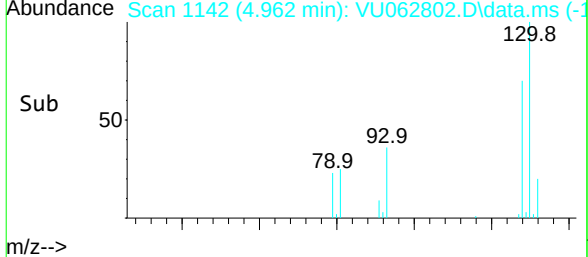
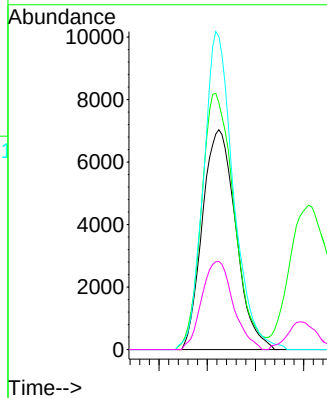
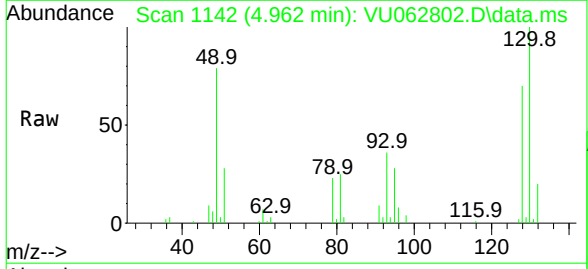
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 122.7 | 84.8  | 157.6 |
| 98  | 64.4  | 43.1  | 80.1  |

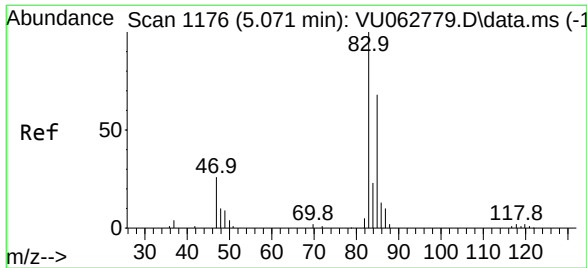


#23  
 Bromochloromethane  
 Concen: 5.073 ug/L  
 RT: 4.962 min Scan# 1142  
 Delta R.T. 0.003 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

Tgt Ion: 128 Resp: 16928

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 112.2 | 81.1  | 150.7 |
| 130 | 142.4 | 94.9  | 176.3 |
| 51  | 40.1  | 30.6  | 46.0  |

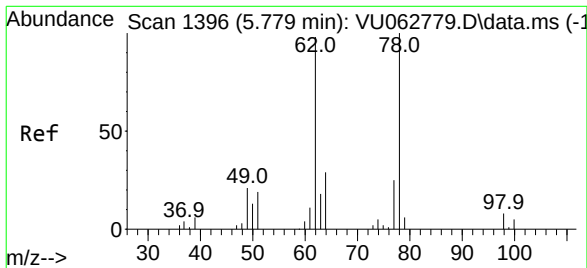
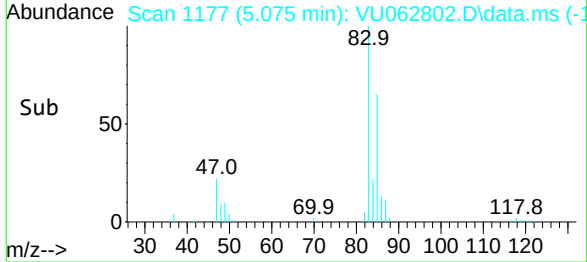
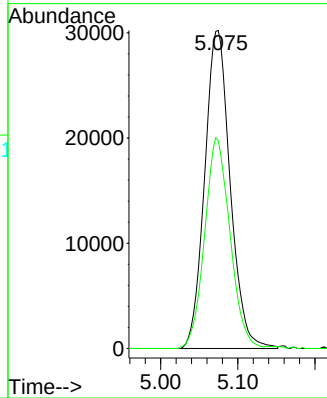
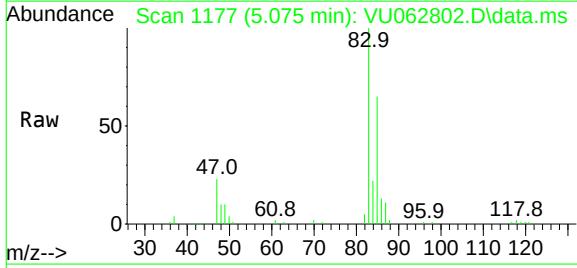




#25  
Chloroform  
Concen: 4.859 ug/L  
RT: 5.075 min Scan# 1176  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

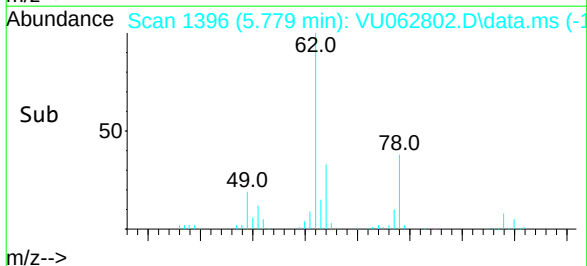
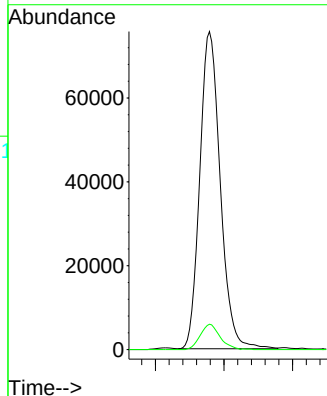
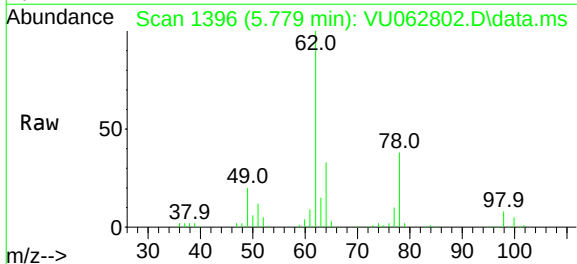
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

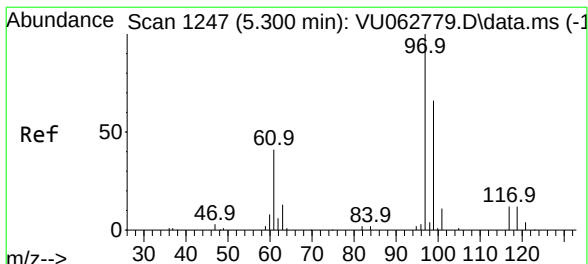
Tgt Ion: 83 Resp: 69408  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 16.817 ug/L  
RT: 5.779 min Scan# 1396  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

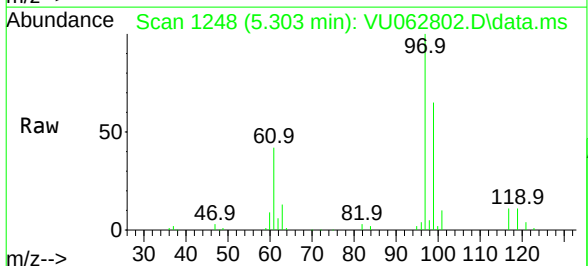
Tgt Ion: 62 Resp: 157070  
Ion Ratio Lower Upper  
62 100  
98 8.0 5.8 8.6



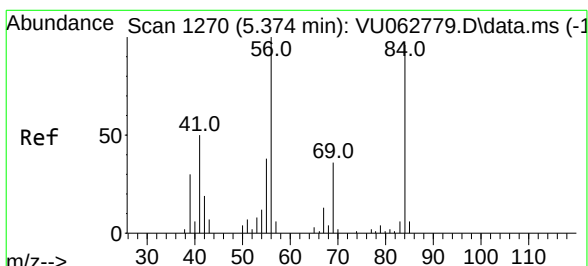
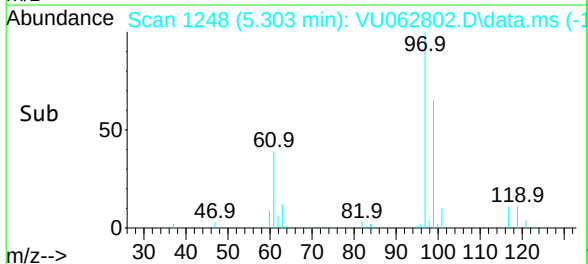
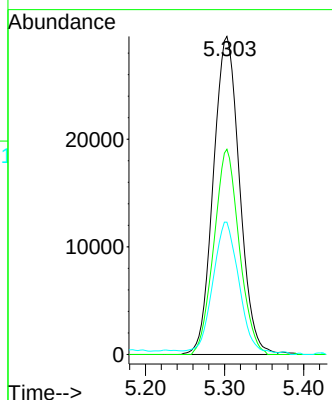


#29  
 1,1,1-Trichloroethane  
 Concen: 4.888 ug/L  
 RT: 5.303 min Scan# 1248  
 Delta R.T. 0.003 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCQ77MSD

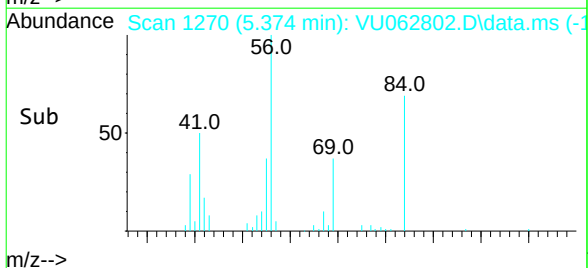
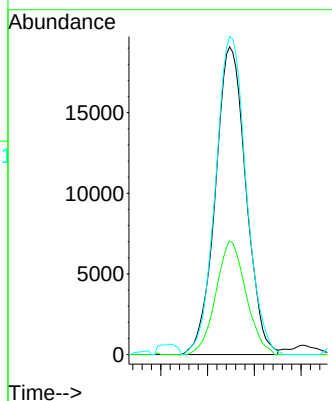
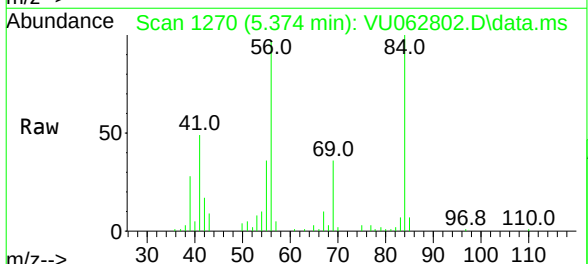


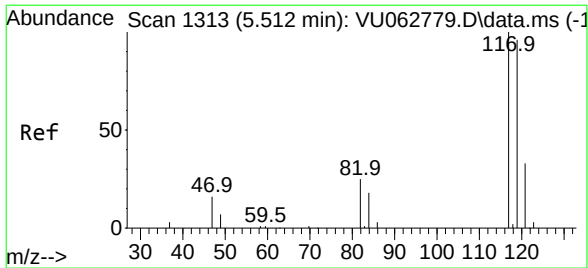
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 67971 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.5  | 52.4  | 78.6  |
| 61       | 40.4  | 32.2  | 48.4  |



#30  
 Cyclohexane  
 Concen: 4.782 ug/L  
 RT: 5.374 min Scan# 1270  
 Delta R.T. 0.000 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

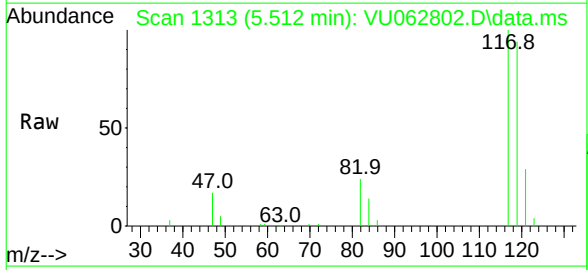
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 43431 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 36.2  | 28.3  | 42.5  |
| 84       | 103.5 | 76.5  | 114.7 |



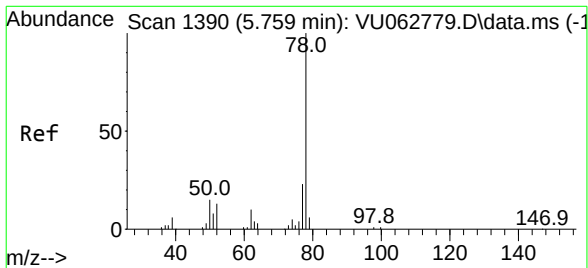
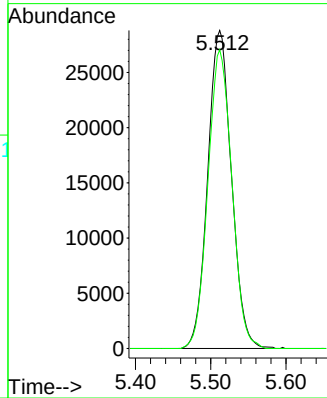
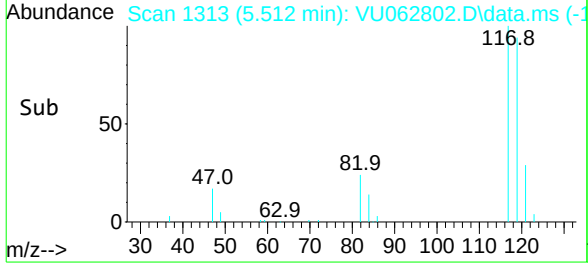


#31  
Carbon tetrachloride  
Concen: 4.936 ug/L  
RT: 5.512 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

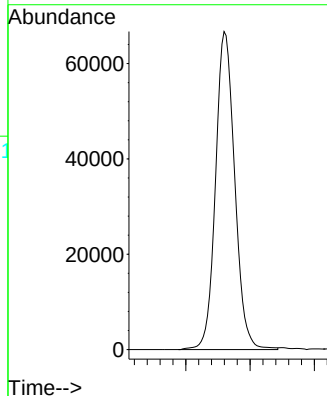
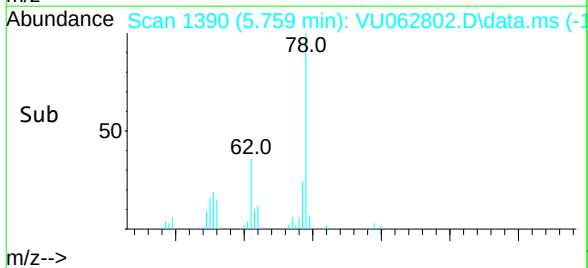
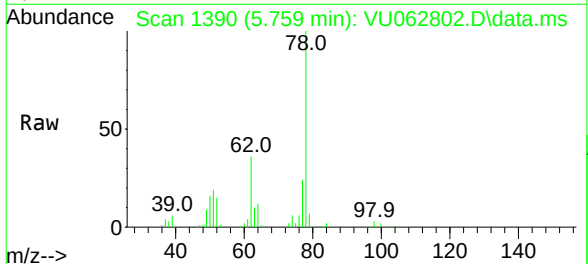


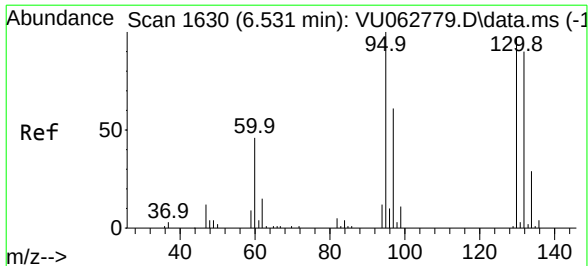
Tgt Ion:117 Resp: 63082  
Ion Ratio Lower Upper  
117 100  
119 95.0 78.6 118.0



#33  
Benzene  
Concen: 5.251 ug/L  
RT: 5.759 min Scan# 1390  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

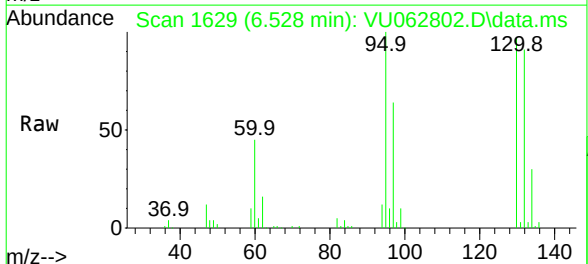
Tgt Ion: 78 Resp: 138329





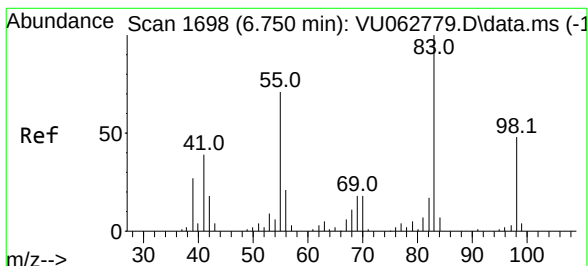
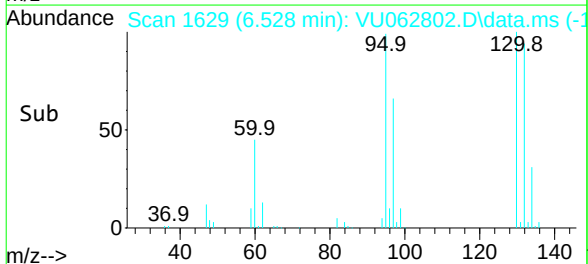
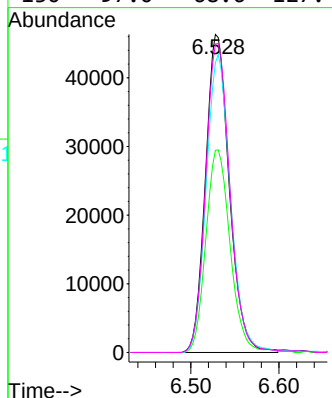
#34  
Trichloroethene  
Concen: 9.670 ug/L  
RT: 6.528 min Scan# 1619  
Delta R.T. -0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD



Tgt Ion: 95 Resp: 87019

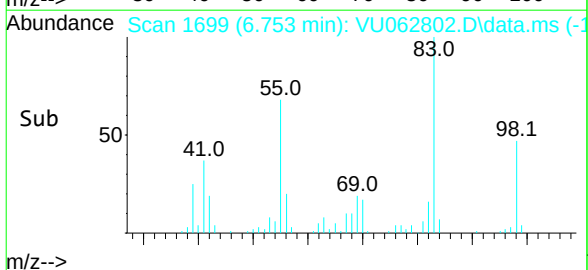
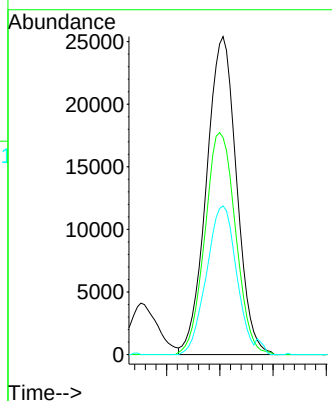
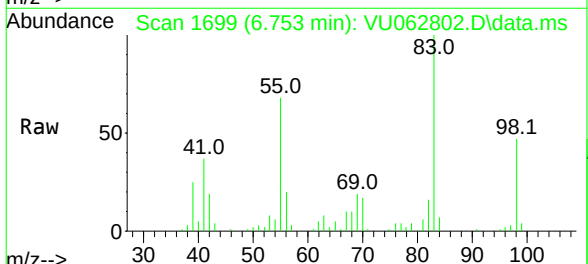
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.5  | 47.5  | 88.3  |
| 132 | 91.1  | 66.9  | 124.3 |
| 130 | 97.0  | 68.6  | 127.4 |



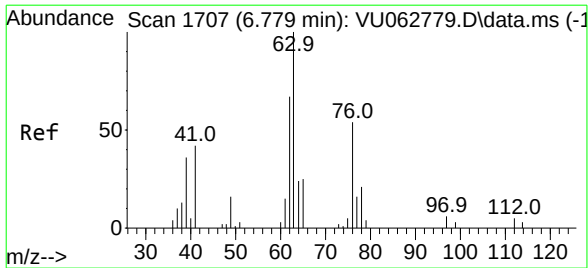
#35  
Methylcyclohexane  
Concen: 4.523 ug/L  
RT: 6.753 min Scan# 1699  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion: 83 Resp: 50077

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 71.0  | 57.2  | 85.8  |
| 98  | 46.1  | 36.6  | 55.0  |

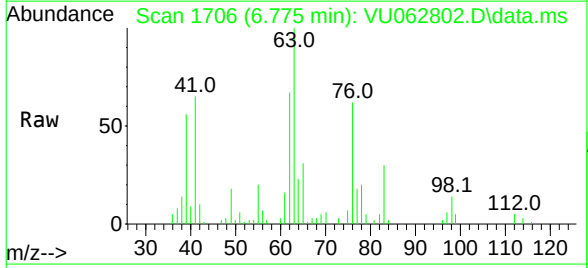




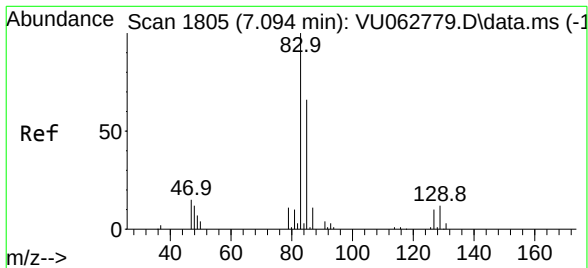
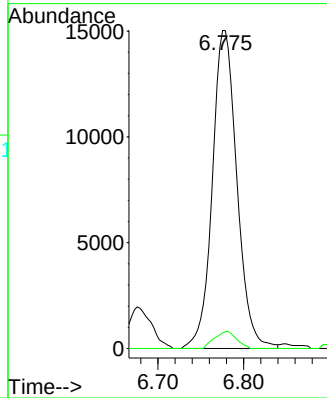
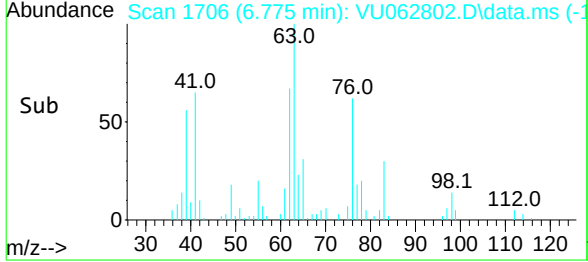


#37  
1,2-Dichloropropane  
Concen: 4.827 ug/L  
RT: 6.775 min Scan# 1707  
Delta R.T. -0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

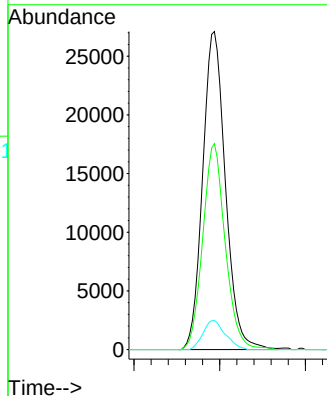
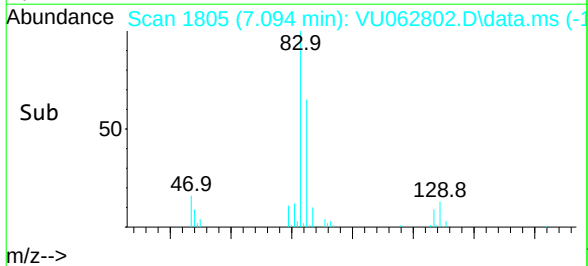
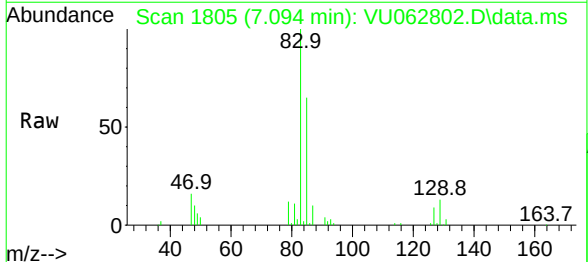


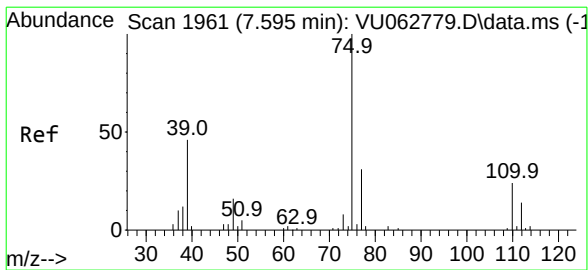
Tgt Ion: 63 Resp: 29993  
Ion Ratio Lower Upper  
63 100  
112 4.8 3.8 5.8



#38  
Bromodichloromethane  
Concen: 5.002 ug/L  
RT: 7.094 min Scan# 1805  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion: 83 Resp: 49982  
Ion Ratio Lower Upper  
83 100  
85 64.8 44.2 82.0  
127 9.1 7.8 11.8

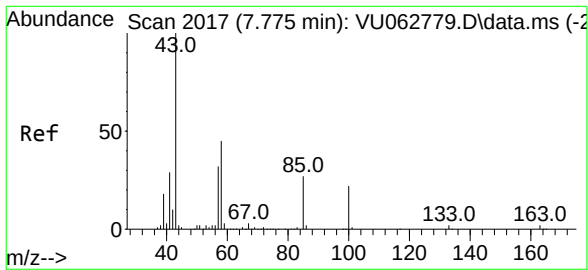
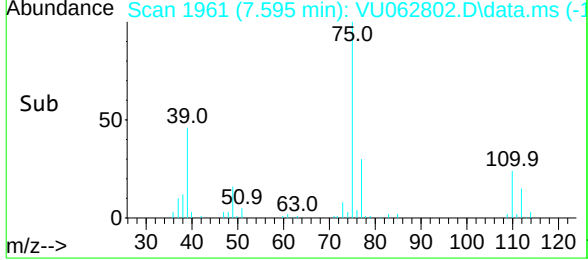
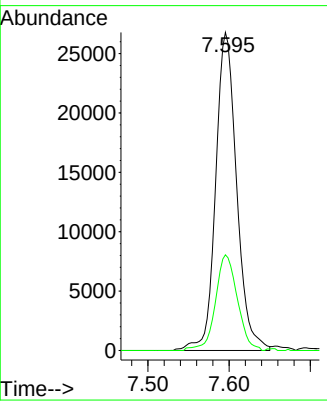
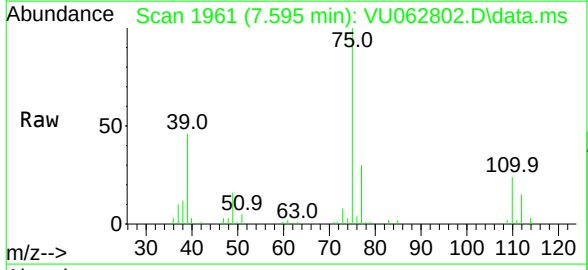




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.557 ug/L  
 RT: 7.595 min Scan# 1961  
 Delta R.T. 0.000 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

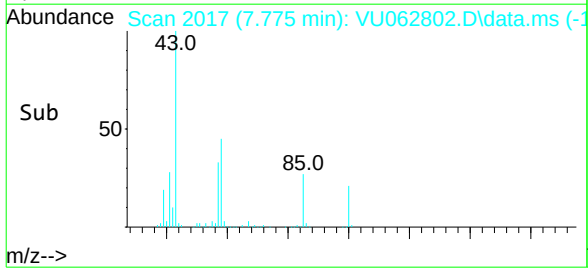
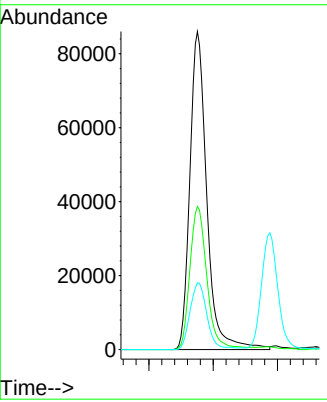
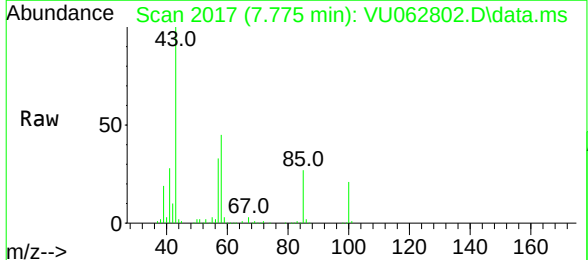
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GCQ77MSD

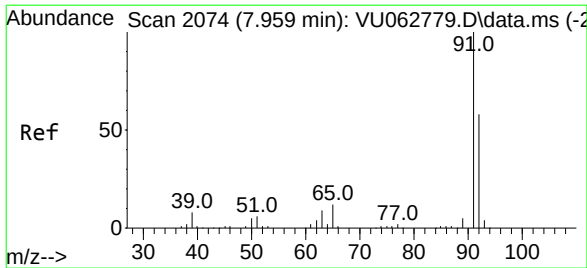
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 48215 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 30.1  | 22.3  | 41.3  |



#40  
 4-Methyl-2-pentanone  
 Concen: 54.042 ug/L  
 RT: 7.775 min Scan# 2017  
 Delta R.T. 0.000 min  
 Lab File: VU062802.D  
 Acq: 16 Jan 2025 06:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 156869 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 45.3  | 35.8  | 53.8   |
| 100      | 21.3  | 16.8  | 25.2   |





#42

Toluene

Concen: 4.989 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

Instrument :

MSVOA\_U

ClientSampleId :

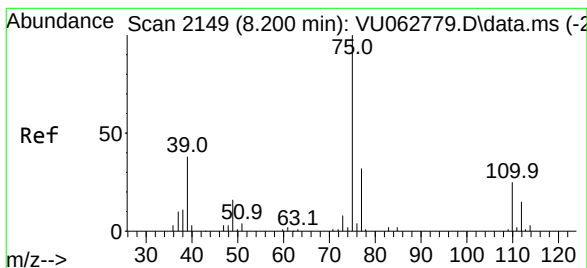
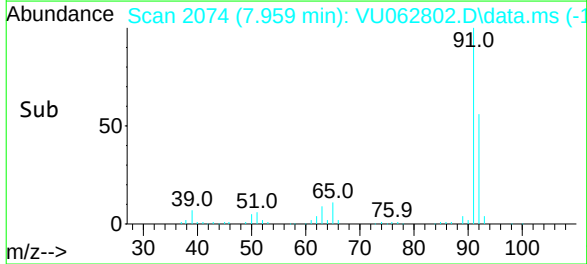
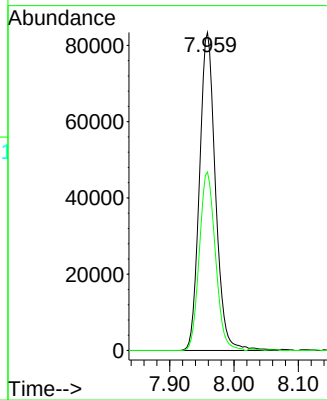
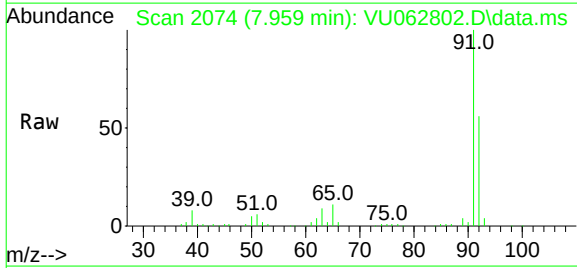
GCQ77MSD

Tgt Ion: 91 Resp: 144018

Ion Ratio Lower Upper

91 100

92 56.1 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 4.672 ug/L

RT: 8.200 min Scan# 2149

Delta R.T. 0.000 min

Lab File: VU062802.D

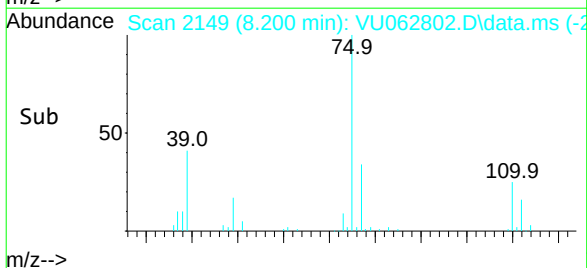
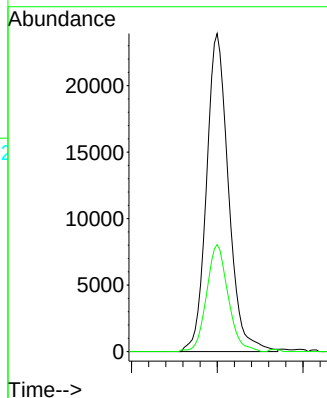
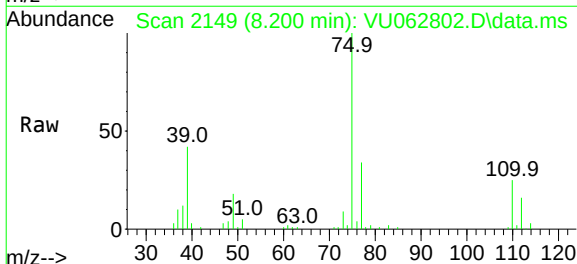
Acq: 16 Jan 2025 06:33

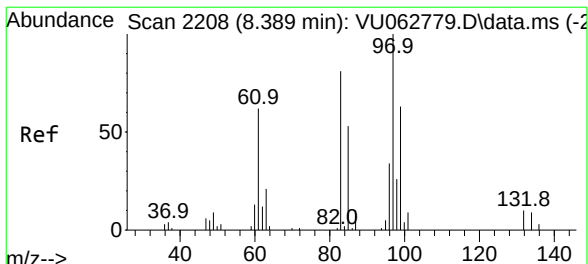
Tgt Ion: 75 Resp: 42616

Ion Ratio Lower Upper

75 100

77 33.6 21.8 40.6

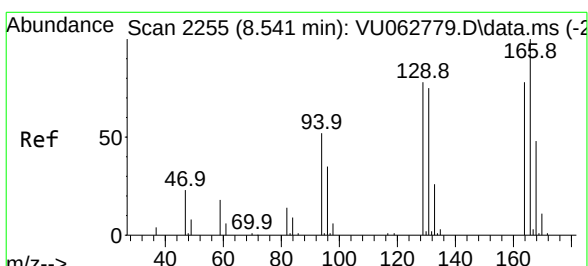
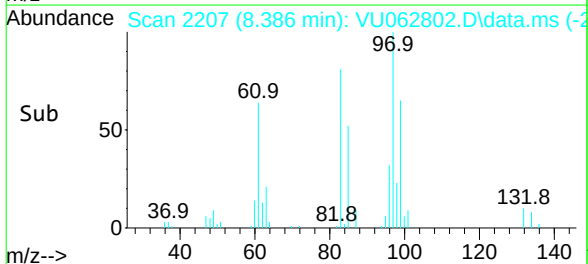
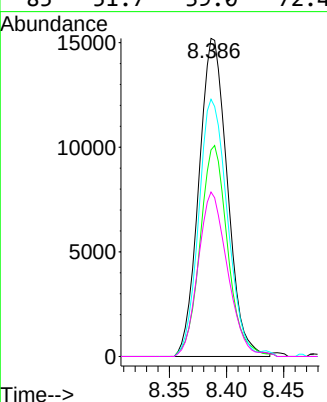
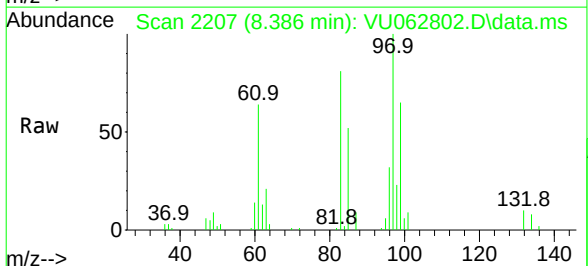




#45  
1,1,2-Trichloroethane  
Concen: 5.219 ug/L  
RT: 8.386 min Scan# 2208  
Delta R.T. -0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

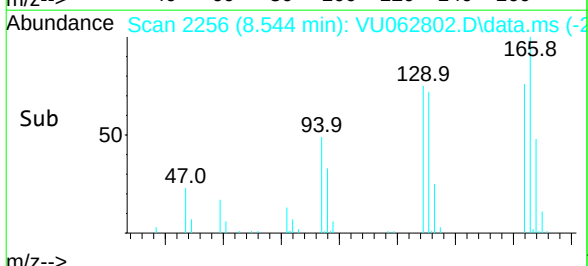
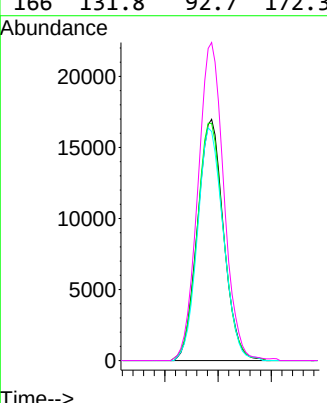
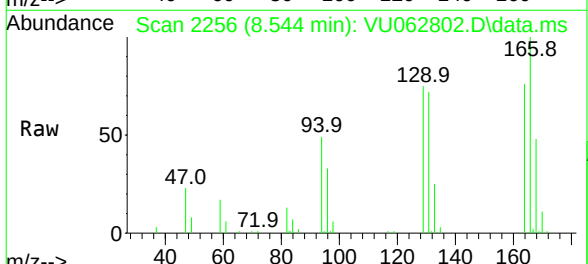
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

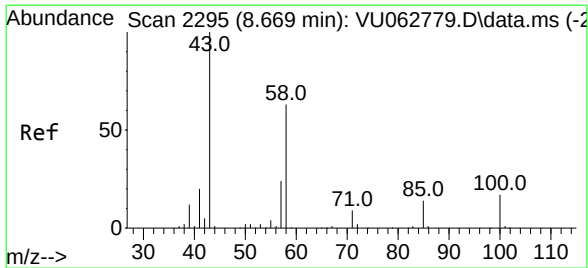
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 26337 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.9  | 45.6  | 84.6  |
| 83       | 80.9  | 63.0  | 117.0 |
| 85       | 51.7  | 39.0  | 72.4  |



#47  
Tetrachloroethene  
Concen: 4.667 ug/L  
RT: 8.544 min Scan# 2256  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 28922 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.3  | 71.0  | 131.9 |
| 131      | 94.9  | 69.4  | 129.0 |
| 166      | 131.8 | 92.7  | 172.3 |

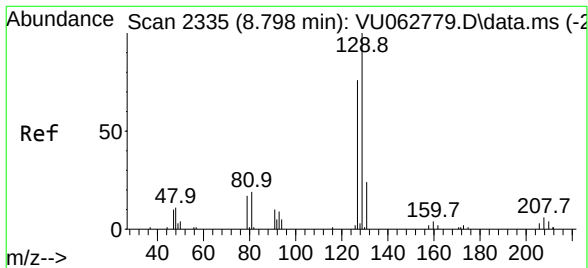
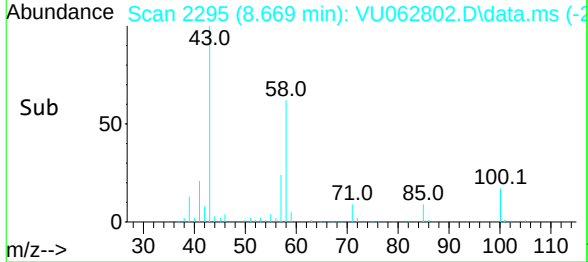
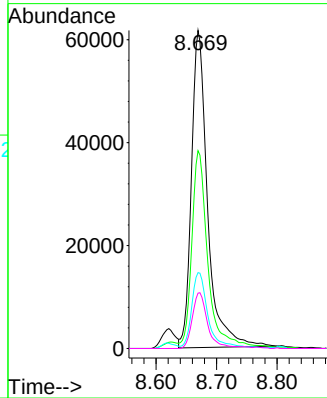
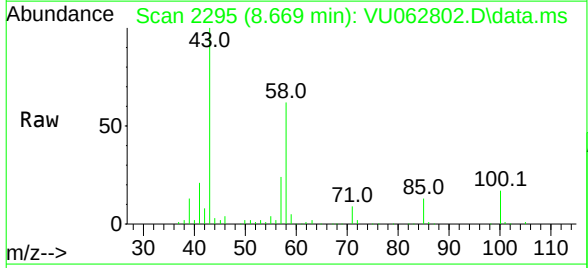




#48  
2-Hexanone  
Concen: 54.753 ug/L  
RT: 8.669 min Scan# 2295  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

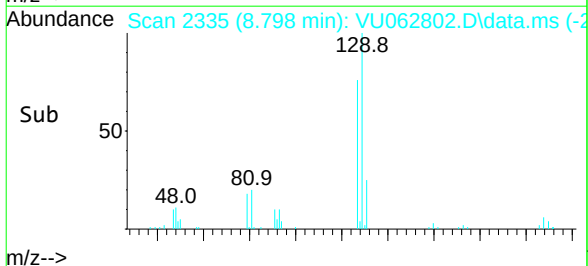
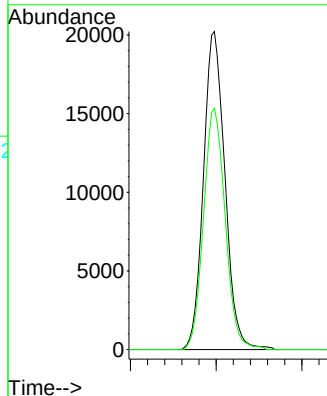
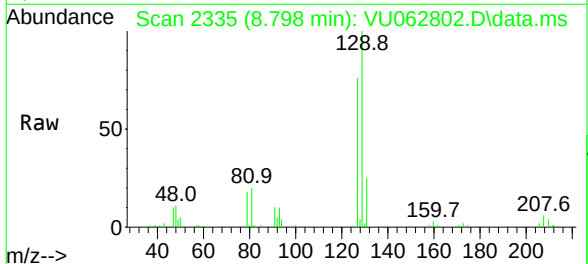
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

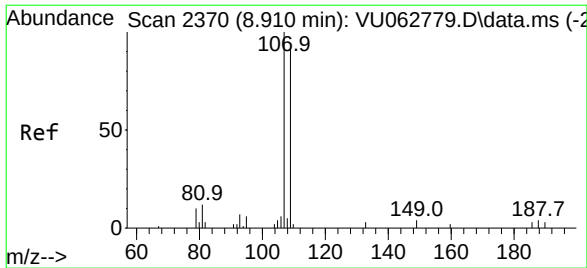
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 114261 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 63.1  | 50.2  | 75.4   |
| 57       | 23.1  | 19.9  | 29.9   |
| 100      | 17.0  | 12.6  | 18.8   |



#49  
Dibromochloromethane  
Concen: 5.192 ug/L  
RT: 8.798 min Scan# 2335  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 35184 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 75.9  | 52.1  | 96.9  |

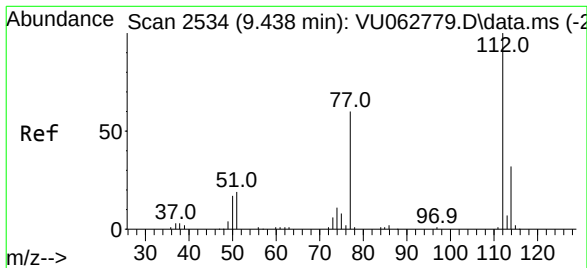
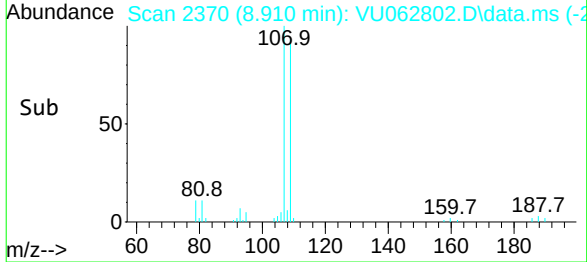
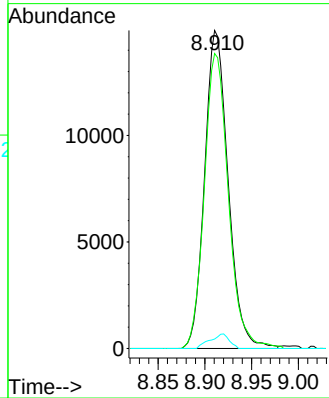
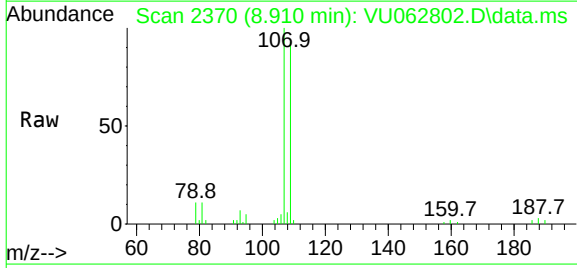




#50  
1,2-Dibromoethane  
Concen: 5.412 ug/L  
RT: 8.910 min Scan# 2370  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

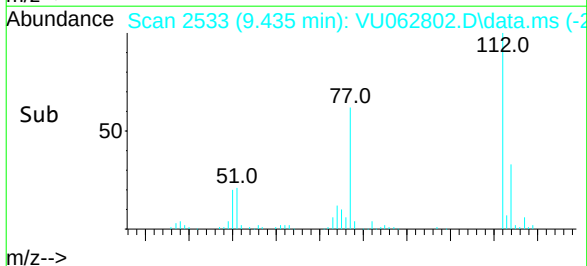
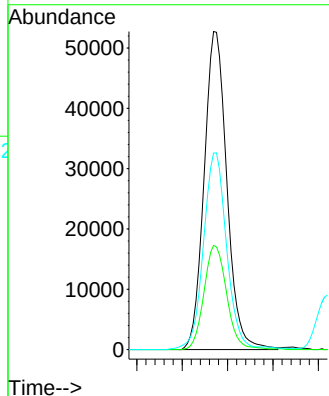
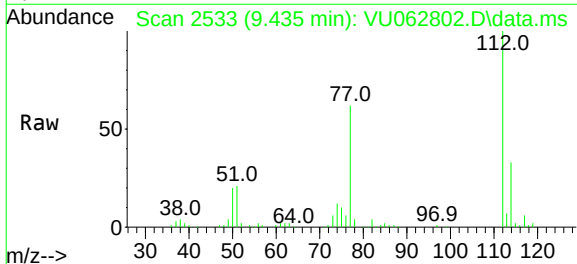
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MSVOA\_U  
ClientSampleId :  
GCQ77MSD

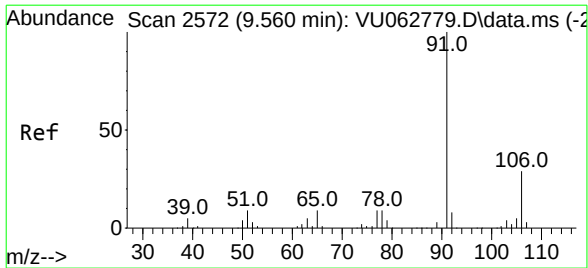
Tgt Ion:107 Resp: 26131  
Ion Ratio Lower Upper  
107 100  
109 92.7 65.7 121.9  
188 3.0 3.4 5.2#



#51  
Chlorobenzene  
Concen: 4.872 ug/L  
RT: 9.435 min Scan# 2533  
Delta R.T. -0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion:112 Resp: 91965  
Ion Ratio Lower Upper  
112 100  
114 32.8 21.7 40.3  
77 61.8 48.6 73.0

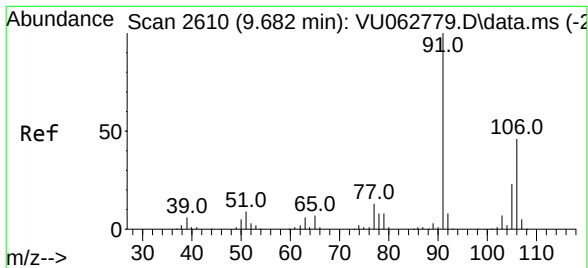
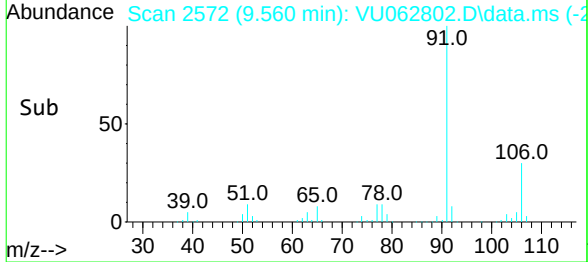
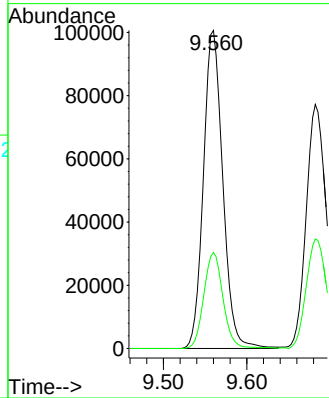
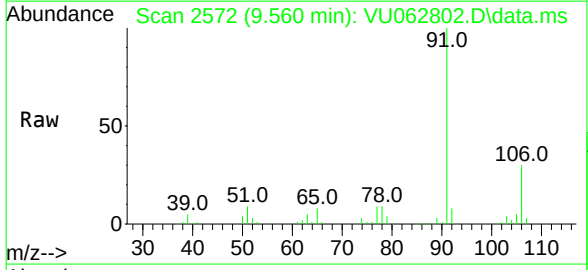




#52  
Ethylbenzene  
Concen: 4.959 ug/L  
RT: 9.560 min Scan# 2572  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

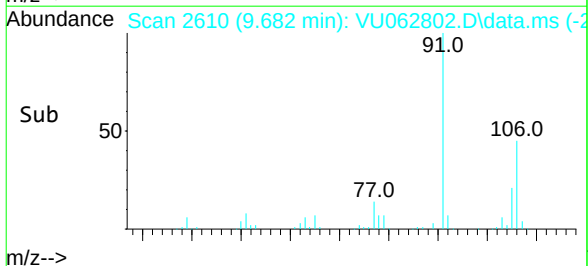
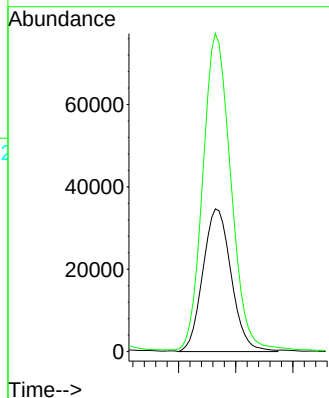
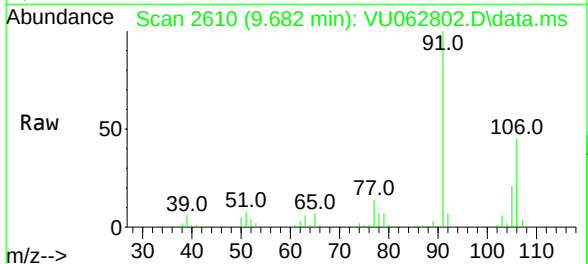
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

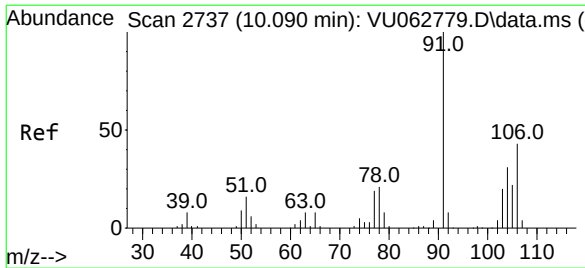
Tgt Ion: 91 Resp: 162442  
Ion Ratio Lower Upper  
91 100  
106 30.2 21.9 40.7



#53  
m,p-Xylene  
Concen: 4.877 ug/L  
RT: 9.682 min Scan# 2610  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion: 106 Resp: 59740  
Ion Ratio Lower Upper  
106 100  
91 222.8 153.1 284.3





#54

o-Xylene

Concen: 4.972 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

Instrument :

MSVOA\_U

ClientSampleId :

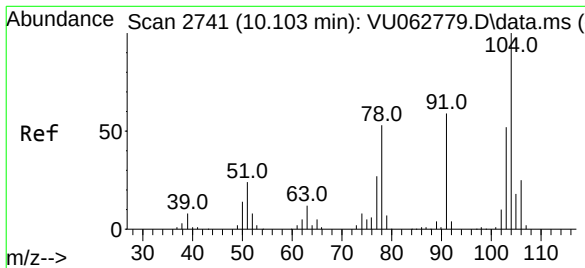
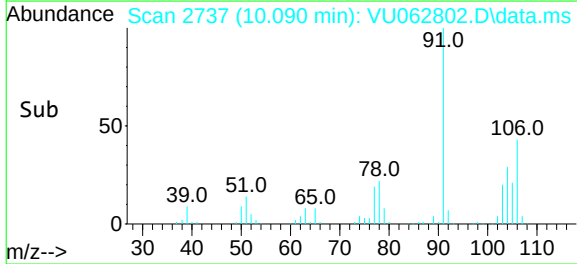
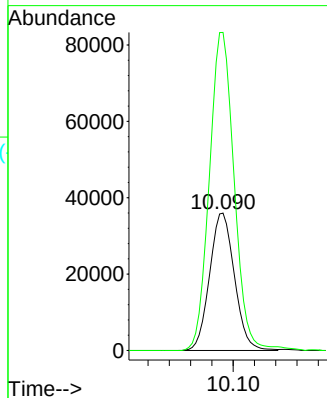
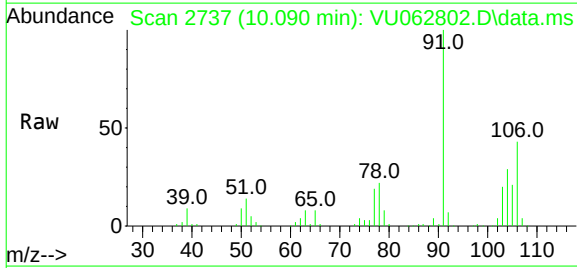
GCQ77MSD

Tgt Ion:106 Resp: 58342

Ion Ratio Lower Upper

106 100

91 231.5 160.4 297.8



#55

Styrene

Concen: 5.051 ug/L

RT: 10.103 min Scan# 2741

Delta R.T. 0.000 min

Lab File: VU062802.D

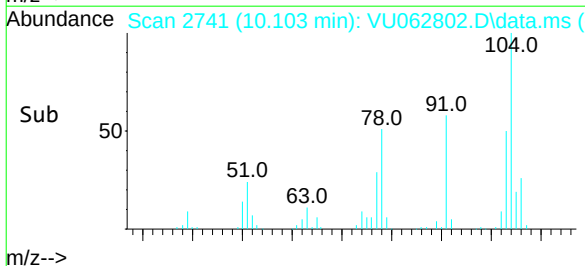
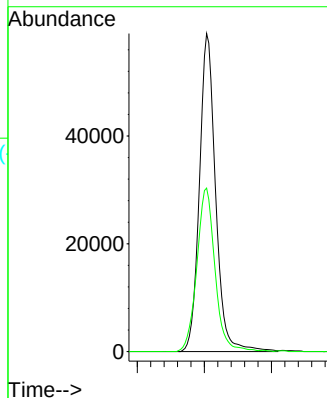
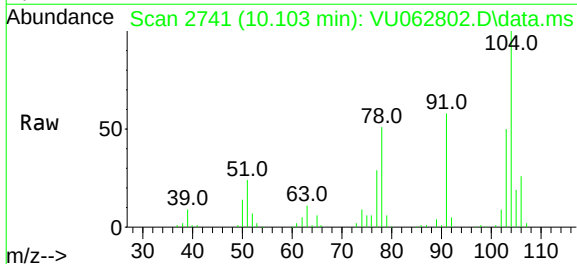
Acq: 16 Jan 2025 06:33

Tgt Ion:104 Resp: 99147

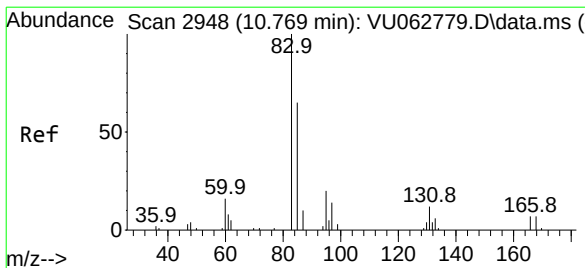
Ion Ratio Lower Upper

104 100

78 51.4 35.5 65.9







#57

1,1,2,2-Tetrachloroethane

Concen: 5.368 ug/L

RT: 10.769 min Scan# 2948

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

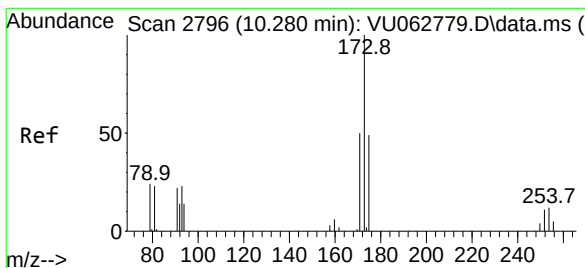
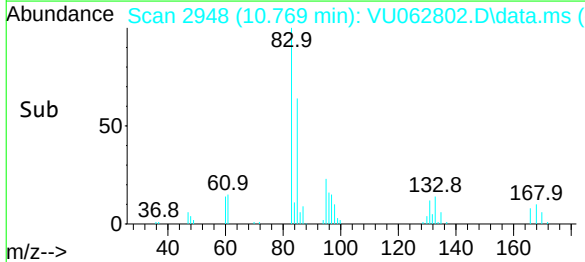
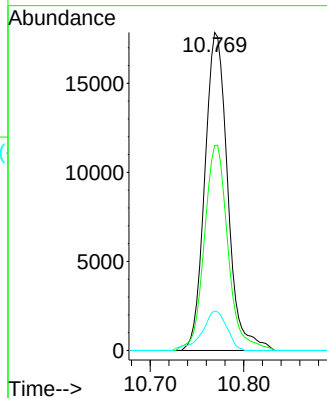
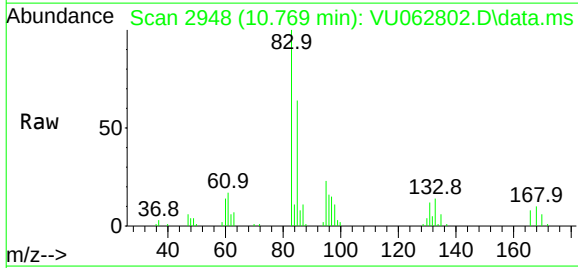
Instrument :

MSVOA\_U

ClientSampleId :

GCQ77MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 30390 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.5  | 43.0  | 79.8  |
| 131      | 12.4  | 7.4   | 11.0  |



#59

Bromoform

Concen: 5.191 ug/L

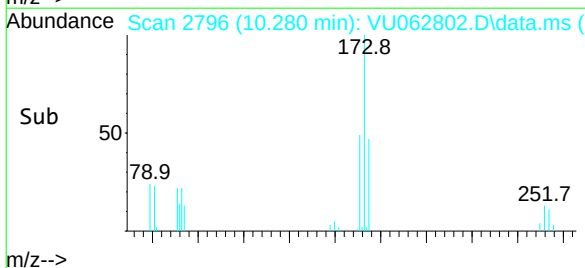
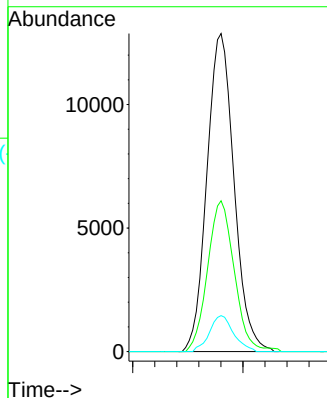
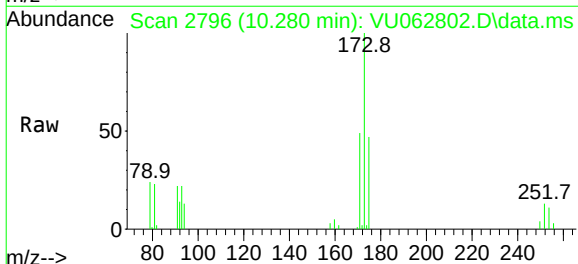
RT: 10.280 min Scan# 2796

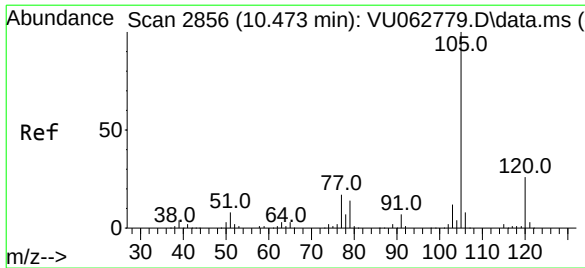
Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 22008 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 46.7  | 39.8  | 59.8  |
| 254      | 10.1  | 8.6   | 12.8  |





#60

Isopropylbenzene

Concen: 4.896 ug/L

RT: 10.473 min Scan# 2856

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

Instrument :

MSVOA\_U

ClientSampleId :

GCQ77MSD

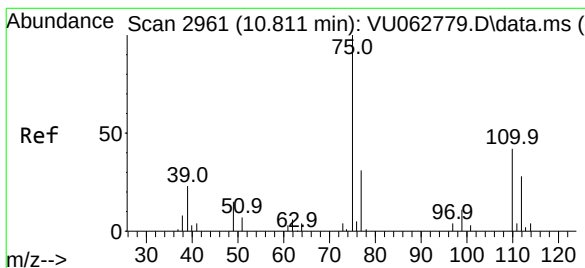
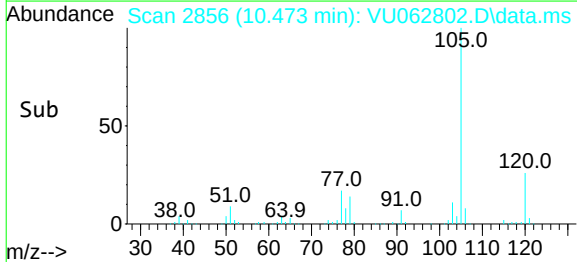
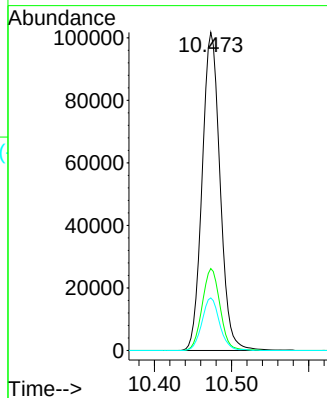
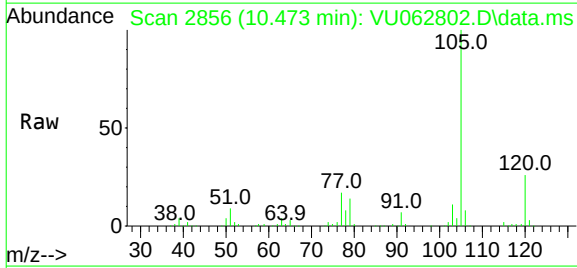
Tgt Ion:105 Resp: 163978

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.2

77 16.3 13.0 19.4



#61

1,2,3-Trichloropropane

Concen: 5.269 ug/L

RT: 10.811 min Scan# 2961

Delta R.T. 0.000 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

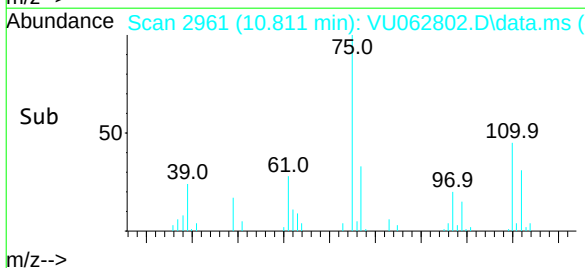
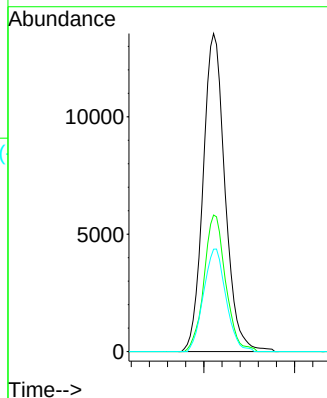
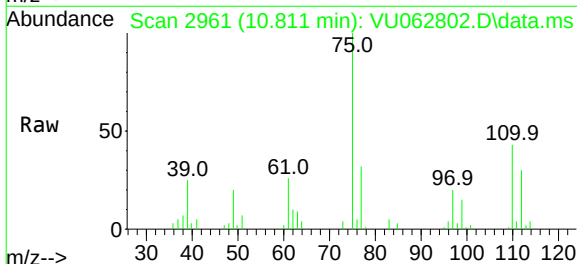
Tgt Ion: 75 Resp: 22716

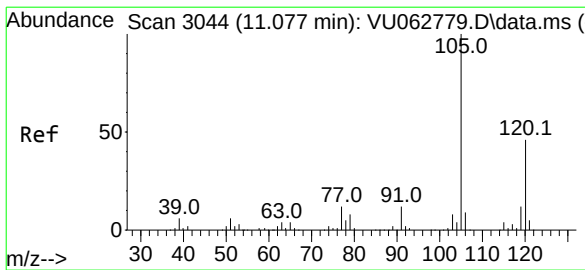
Ion Ratio Lower Upper

75 100

110 42.2 33.2 49.8

77 33.0 25.9 38.9

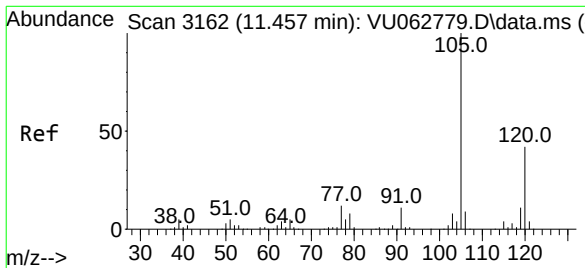
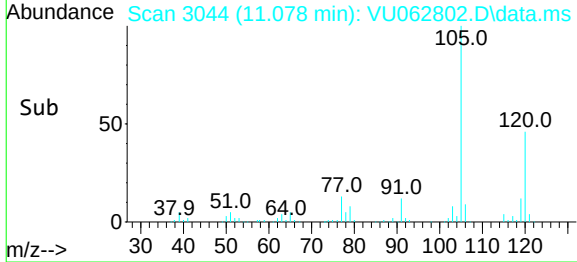
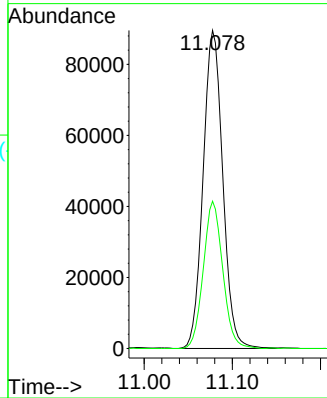
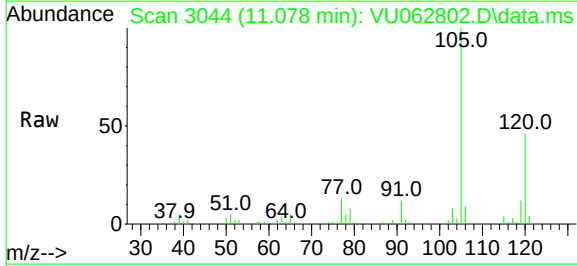




#62  
1,3,5-Trimethylbenzene  
Concen: 4.873 ug/L  
RT: 11.078 min Scan# 3044  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

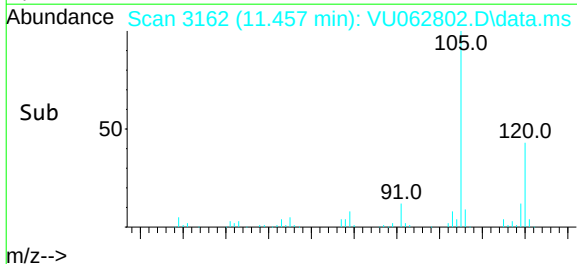
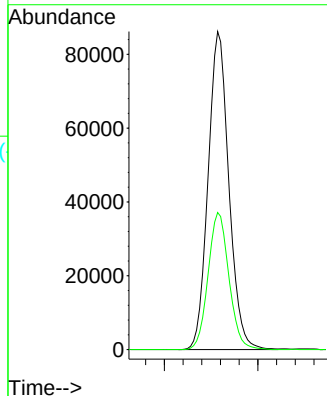
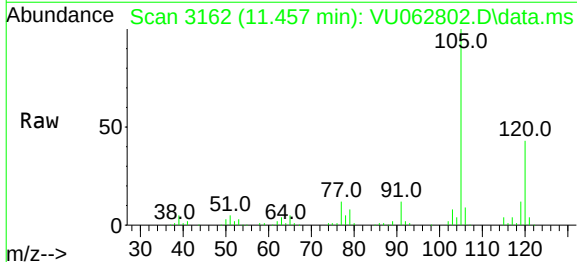
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

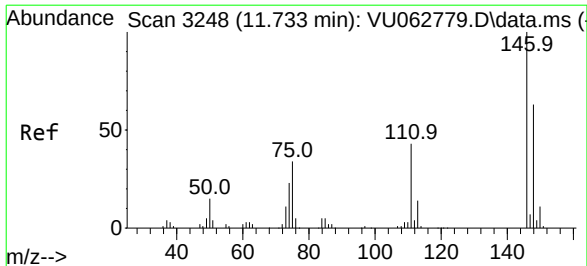
Tgt Ion:105 Resp: 138729  
Ion Ratio Lower Upper  
105 100  
120 45.8 35.9 53.9



#63  
1,2,4-Trimethylbenzene  
Concen: 4.824 ug/L  
RT: 11.457 min Scan# 3162  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

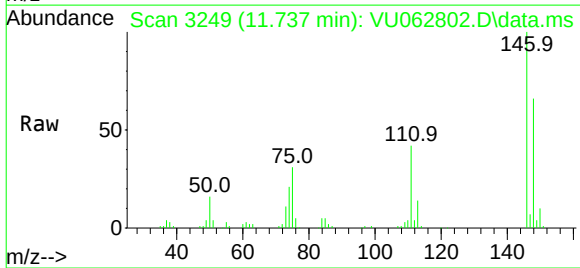
Tgt Ion:105 Resp: 132849  
Ion Ratio Lower Upper  
105 100  
120 43.2 34.2 51.2



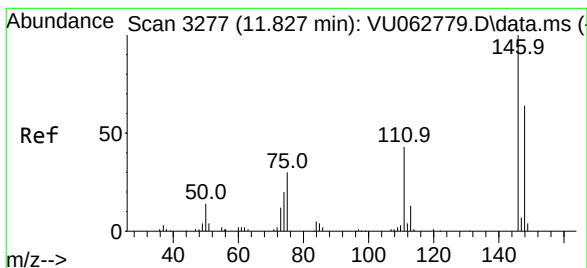
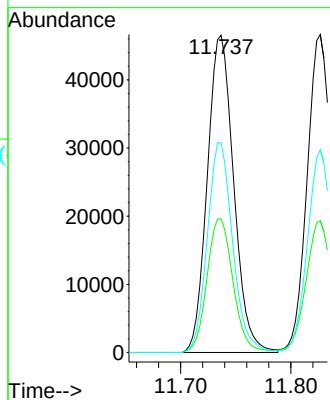
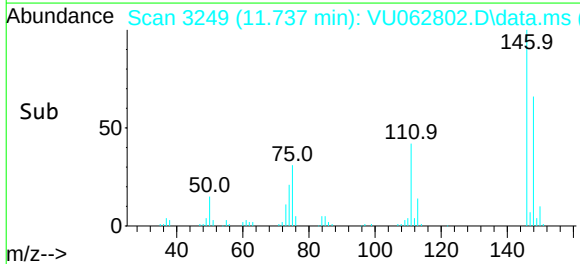


#64  
1,3-Dichlorobenzene  
Concen: 4.986 ug/L  
RT: 11.737 min Scan# 3248  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

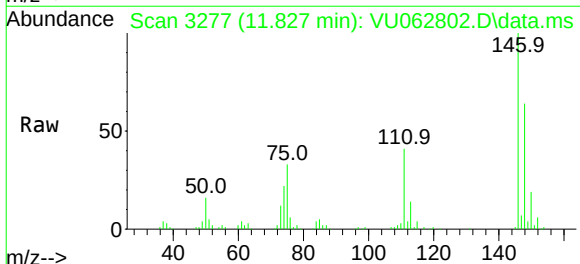
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD



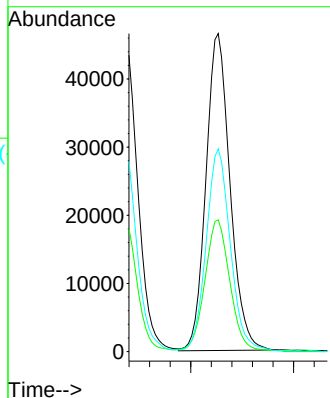
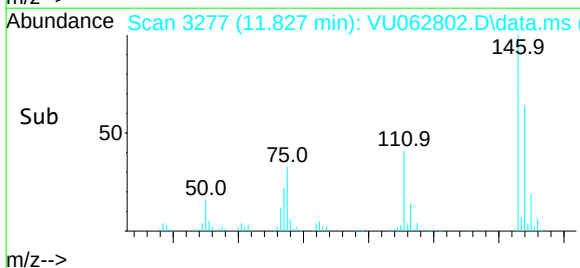
Tgt Ion:146 Resp: 77427  
Ion Ratio Lower Upper  
146 100  
111 42.1 28.6 53.0  
148 66.2 44.0 81.6

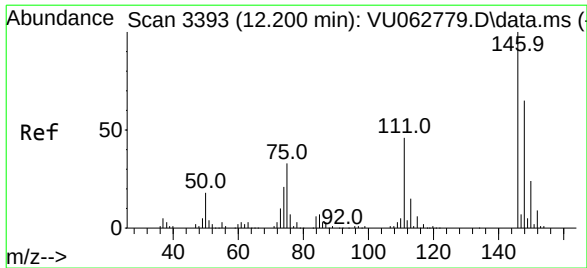


#65  
1,4-Dichlorobenzene  
Concen: 4.837 ug/L  
RT: 11.827 min Scan# 3277  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33



Tgt Ion:146 Resp: 75734  
Ion Ratio Lower Upper  
146 100  
111 41.4 29.5 54.9  
148 63.7 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 5.018 ug/L

RT: 12.203 min Scan# 3393

Delta R.T. 0.003 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

Instrument :

MSVOA\_U

ClientSampleId :

GCQ77MSD

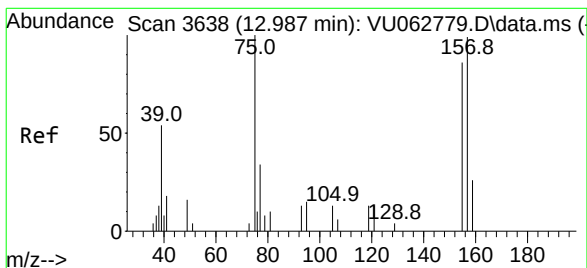
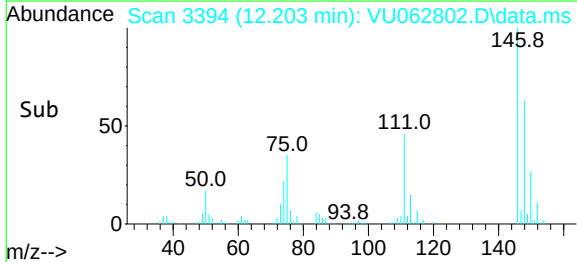
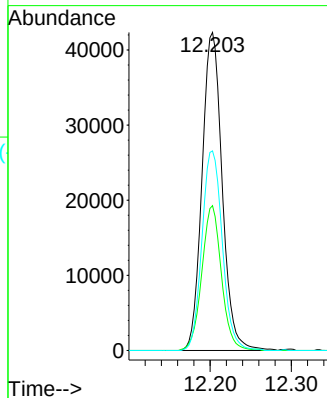
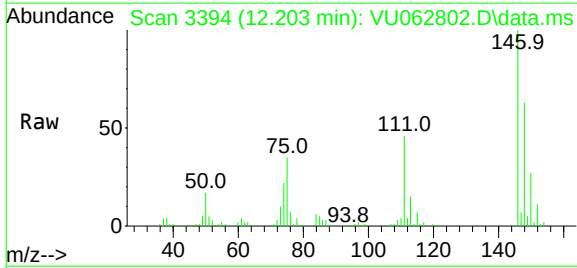
Tgt Ion:146 Resp: 73031

Ion Ratio Lower Upper

146 100

111 45.5 36.3 54.5

148 62.8 52.0 78.0



#68

1,2-Dibromo-3-chloropropane

Concen: 5.291 ug/L

RT: 12.984 min Scan# 3637

Delta R.T. -0.003 min

Lab File: VU062802.D

Acq: 16 Jan 2025 06:33

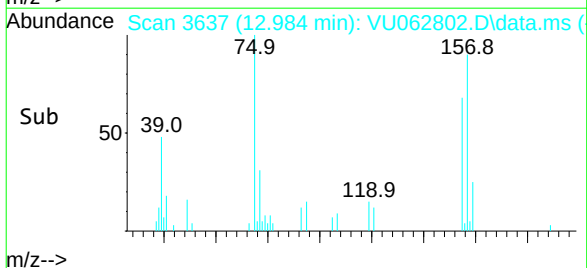
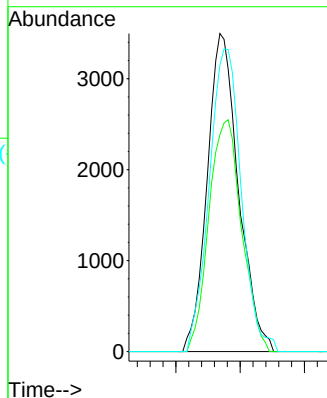
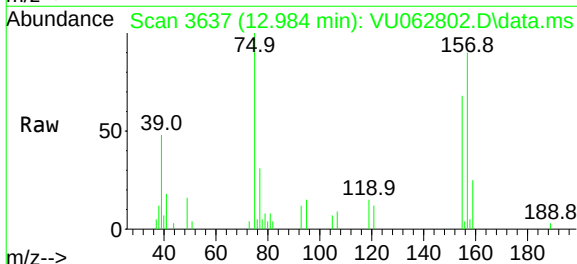
Tgt Ion: 75 Resp: 5909

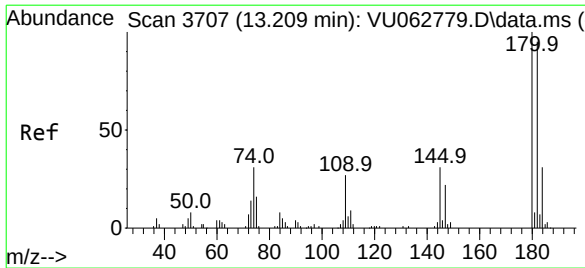
Ion Ratio Lower Upper

75 100

155 68.2 59.6 89.4

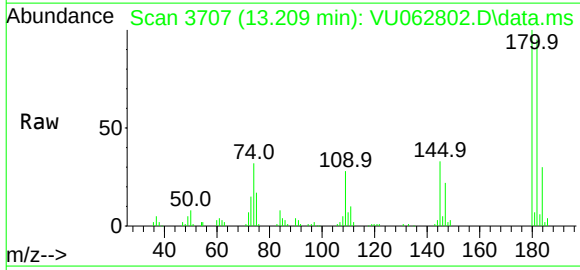
157 90.1 70.8 106.2



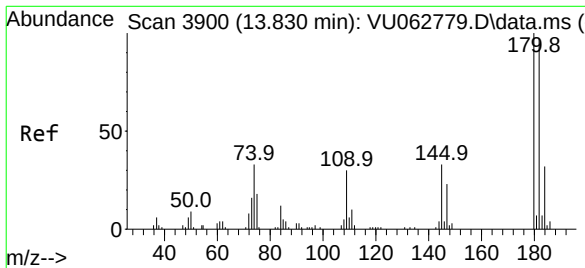
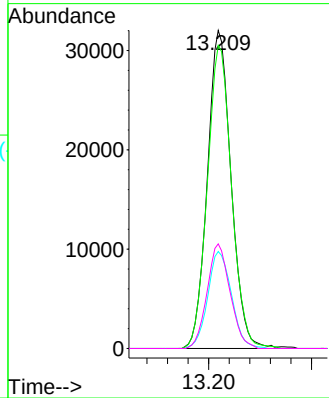
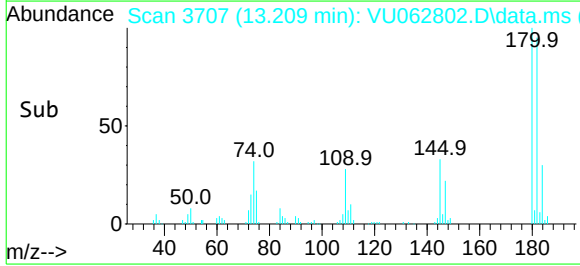


1,3,5-Trichlorobenzene  
Concen: 4.390 ug/L  
RT: 13.209 min Scan# 3707  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

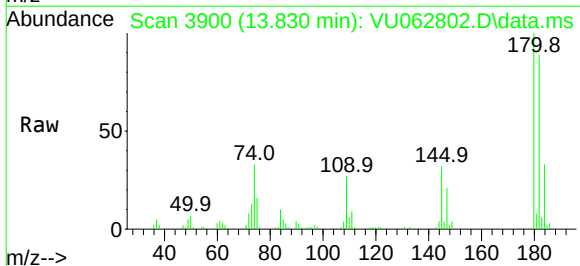
Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD



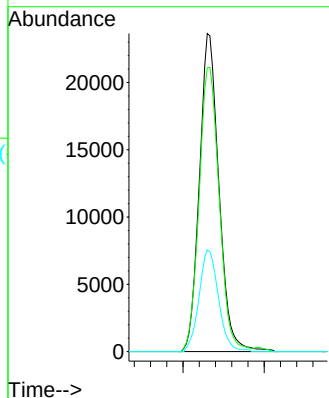
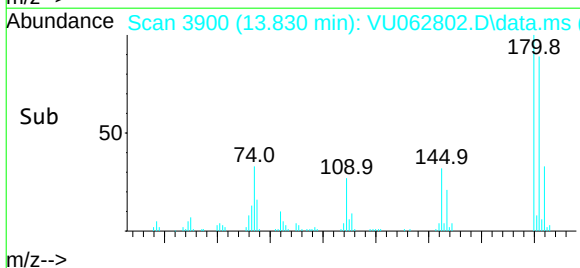
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 51341 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 97.0  | 75.8  | 113.8 |
| 184       | 30.5  | 24.7  | 37.1  |
| 145       | 31.9  | 25.8  | 38.6  |

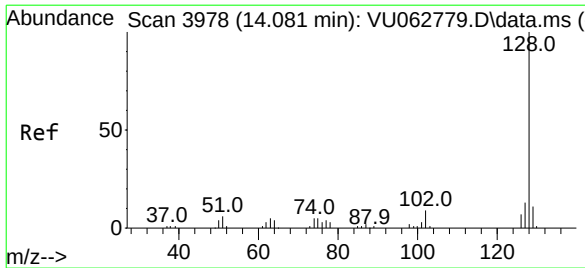


1,2,4-trichlorobenzene  
Concen: 4.188 ug/L  
RT: 13.830 min Scan# 3900  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 39442 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 91.9  | 77.1  | 115.7 |
| 145       | 31.8  | 26.9  | 40.3  |

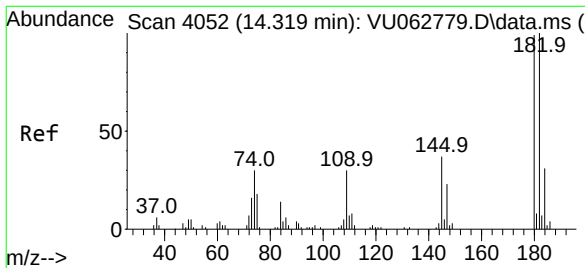
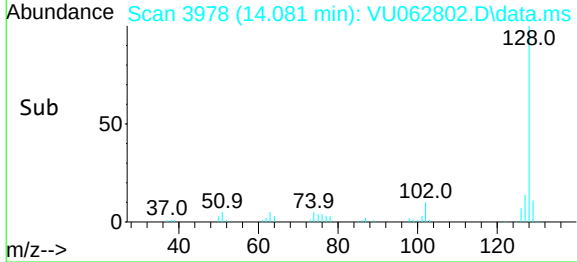
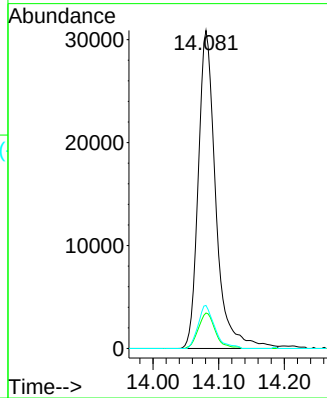
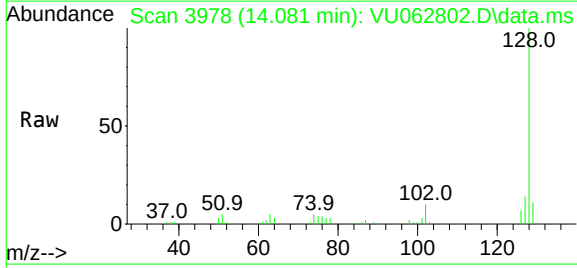




#71  
Naphthalene  
Concen: 4.157 ug/L  
RT: 14.081 min Scan# 3978  
Delta R.T. 0.000 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Instrument :  
MSVOA\_U  
ClientSampleId :  
GCQ77MSD

Tgt Ion:128 Resp: 57290  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.5 12.7  
127 12.9 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 4.245 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. 0.003 min  
Lab File: VU062802.D  
Acq: 16 Jan 2025 06:33

Tgt Ion:180 Resp: 34849  
Ion Ratio Lower Upper  
180 100  
182 92.5 79.8 119.6  
145 33.5 29.2 43.8

