

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121923\  
 Data File : VU057077.D  
 Acq On : 20 Dec 2023 04:52  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 20 06:59:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 20 06:35:40 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 190513   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 188649   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 97038    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 72460    | 4.437    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 88.800%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 61232    | 5.011    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 100.200% |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 32256    | 4.617    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 92.400%  |
| 20) 2-Butanone-d5             | 4.615  | 46    | 124862   | 38.717   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 77.440%  |
| 24) Chloroform-d              | 5.055  | 84    | 153333   | 4.958    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 70607    | 4.825    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.600%  |
| 32) Benzene-d6                | 5.721  | 84    | 274724   | 4.695    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 79403    | 4.336    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.800%  |
| 41) Toluene-d8                | 7.894  | 98    | 250864   | 4.797    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.000%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 31759    | 4.472    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 89.400%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 113949   | 42.538   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 85.080%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 58584    | 4.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 88.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 84629    | 4.437    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 88.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 94429    | 4.730    | ug/L   | 100      |
| 3) Chloromethane              | 1.515  | 50    | 96779    | 4.930    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.602  | 62    | 97069    | 4.980    | ug/L   | 99       |
| 6) Bromomethane               | 1.853  | 94    | 49843    | 4.337    | ug/L   | 99       |
| 8) Chloroethane               | 1.930  | 64    | 61875    | 5.419    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 159000   | 5.788    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 82807    | 4.914    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 74397    | 4.810    | ug/L   | 95       |
| 13) Acetone                   | 2.624  | 43    | 83685    | 42.580   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.788  | 76    | 221551   | 4.128    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.946  | 43    | 23092    | 4.316    | ug/L   | 92       |
| 16) Methylene chloride        | 3.039  | 84    | 86882    | 5.156    | ug/L   | 96       |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 168918   | 4.925    | ug/L   | 97       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 75608    | 4.821    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 147819   | 4.900    | ug/L   | 99       |
| 21) 2-Butanone                | 4.695  | 43    | 136395   | 41.153   | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 83015    | 4.866    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.965  | 128   | 35731    | 5.003    | ug/L   | 92       |
| 25) Chloroform                | 5.081  | 83    | 166084   | 5.256    | ug/L   | 98       |

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 Acq On : 20 Dec 2023 04:52  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 20 06:59:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Dec 20 06:35:40 2023  
 Response via : Initial Calibration

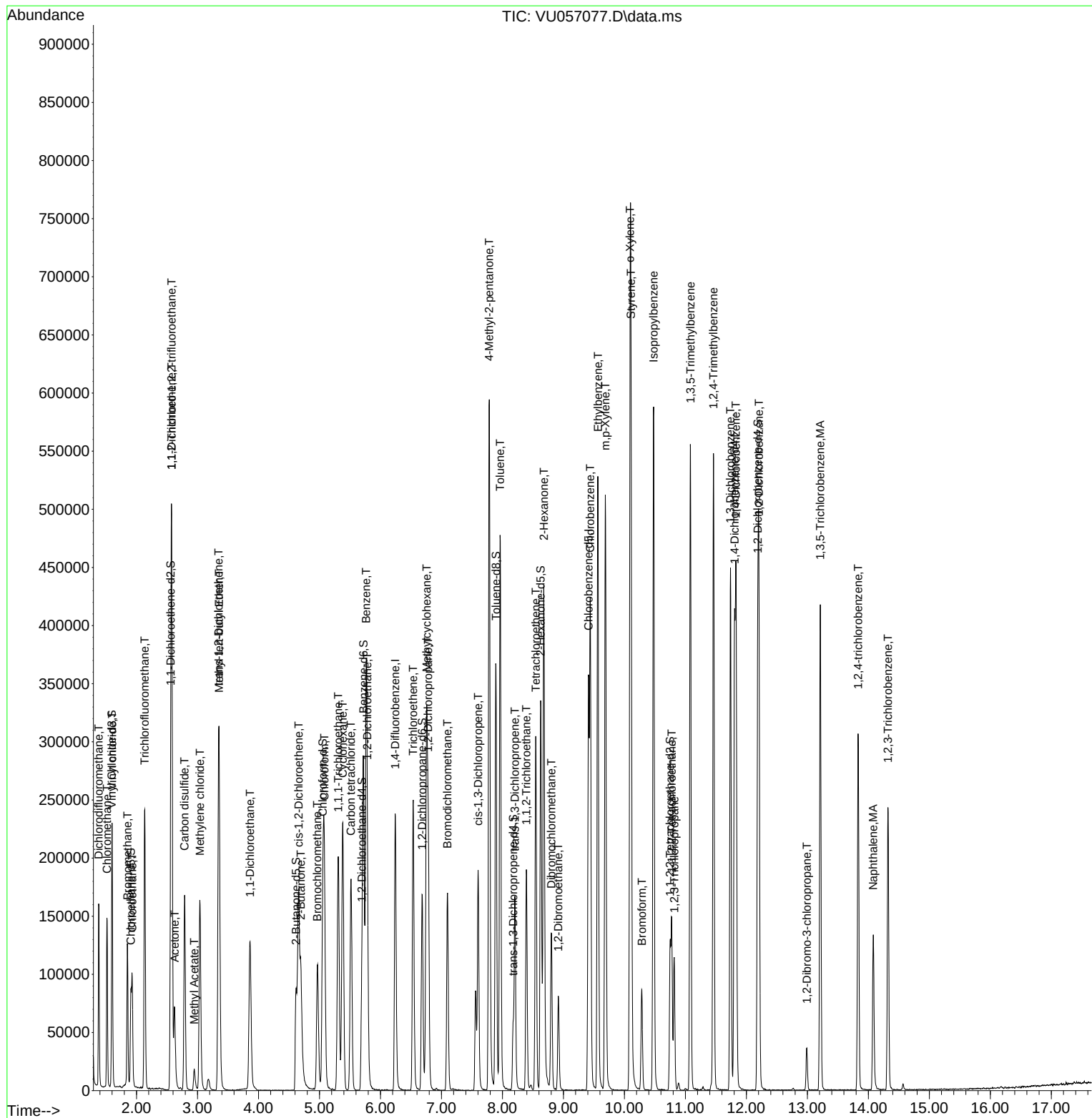
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 97990    | 5.243  | ug/L # | 95       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97   | 154791   | 5.676  | ug/L   | 97       |
| 30) Cyclohexane               | 5.383  | 56   | 109491   | 4.278  | ug/L   | 96       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 128852   | 5.436  | ug/L   | 98       |
| 33) Benzene                   | 5.766  | 78   | 326759   | 4.929  | ug/L   | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 87228    | 4.796  | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.756  | 83   | 120371   | 4.485  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 80273    | 4.733  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.100  | 83   | 112814   | 5.216  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 116412   | 4.710  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.782  | 43   | 362615   | 45.028 | ug/L   | 97       |
| 42) Toluene                   | 7.962  | 91   | 350128   | 5.104  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 99154    | 4.894  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 58281    | 5.083  | ug/L   | 98       |
| 47) Tetrachloroethene         | 8.547  | 164  | 65058    | 5.111  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.679  | 43   | 258565   | 45.080 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.801  | 129  | 71039    | 5.390  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 53115    | 4.991  | ug/L # | 93       |
| 51) Chlorobenzene             | 9.441  | 112  | 215607   | 4.931  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.566  | 91   | 380591   | 5.029  | ug/L   | 100      |
| 53) m,p-Xylene                | 9.688  | 106  | 141995   | 5.037  | ug/L   | 99       |
| 54) o-Xylene                  | 10.093 | 106  | 138407   | 5.153  | ug/L   | 94       |
| 55) Styrene                   | 10.110 | 104  | 231949   | 5.259  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 68823    | 4.968  | ug/L # | 98       |
| 59) Bromoform                 | 10.286 | 173  | 40407    | 5.100  | ug/L   | 98       |
| 60) Isopropylbenzene          | 10.479 | 105  | 376497   | 4.911  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 47579    | 4.566  | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 302726   | 4.831  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.460 | 105  | 304612   | 4.895  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 174584   | 4.814  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 169027   | 4.733  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 156904   | 4.749  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.990 | 75   | 10561    | 5.077  | ug/L   | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 121625   | 4.438  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.833 | 180  | 90567    | 4.173  | ug/L   | 97       |
| 71) Naphthalene               | 14.080 | 128  | 114445   | 3.604  | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.322 | 180  | 74240    | 4.030  | ug/L   | 99       |

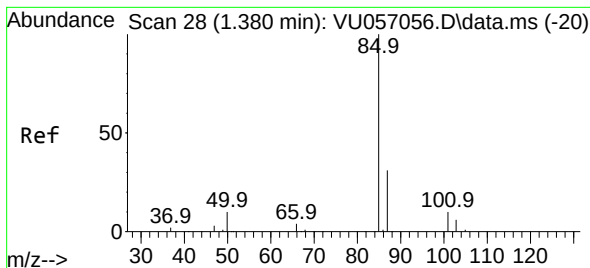
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121923\  
Data File : VU057077.D  
Acq On : 20 Dec 2023 04:52  
Operator : MD/SY  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 49 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

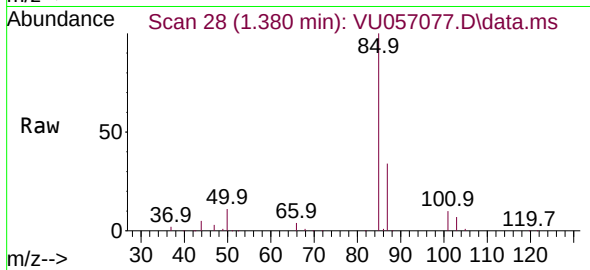
Quant Time: Dec 20 06:59:23 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Dec 20 06:35:40 2023  
Response via : Initial Calibration



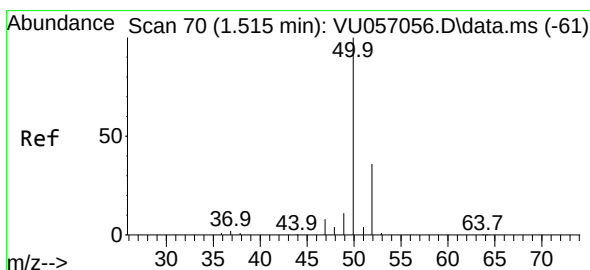
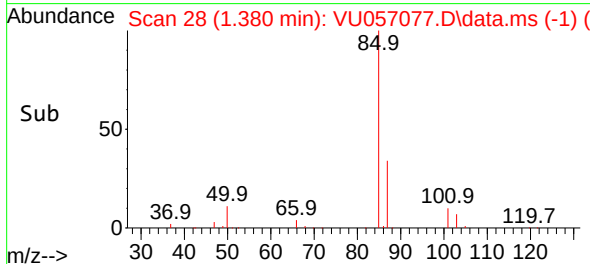
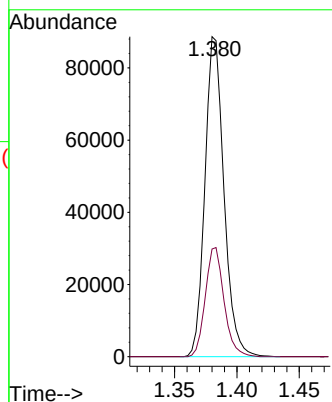


#2  
 Dichlorodifluoromethane  
 Concen: 4.730 ug/L  
 RT: 1.380 min Scan# 28  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :

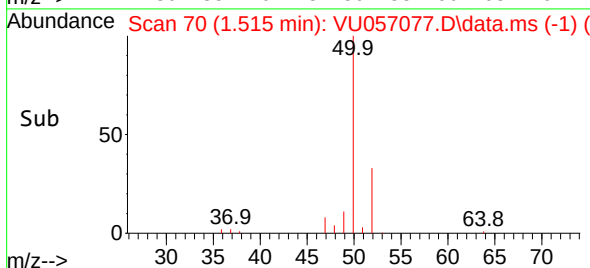
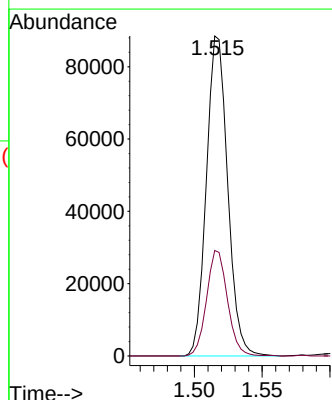
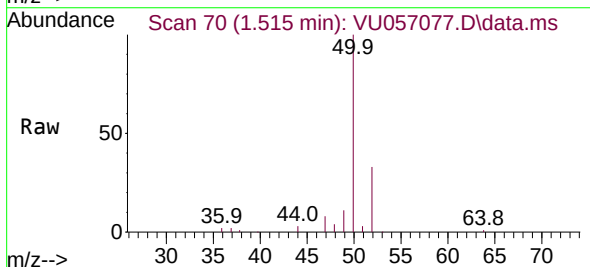


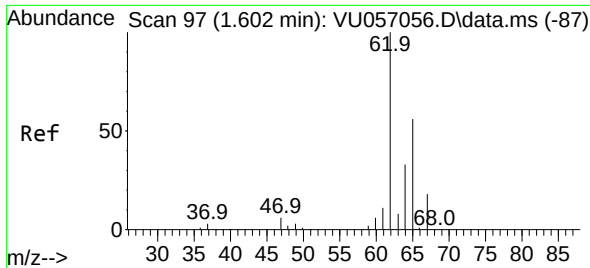
Tgt Ion: 85 Resp: 94429  
 Ion Ratio Lower Upper  
 85 100  
 87 33.5 26.8 40.2



#3  
 Chloromethane  
 Concen: 4.930 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

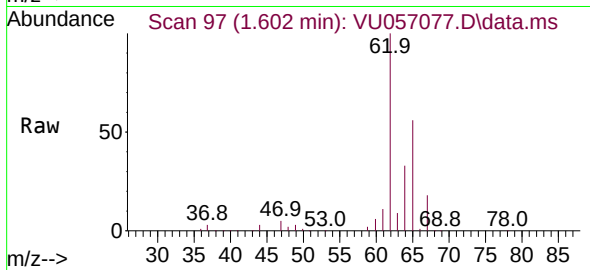
Tgt Ion: 50 Resp: 96779  
 Ion Ratio Lower Upper  
 50 100  
 52 32.9 22.5 41.7



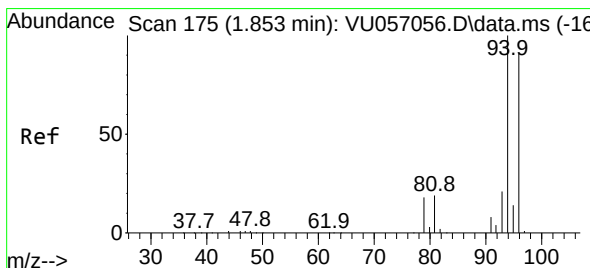
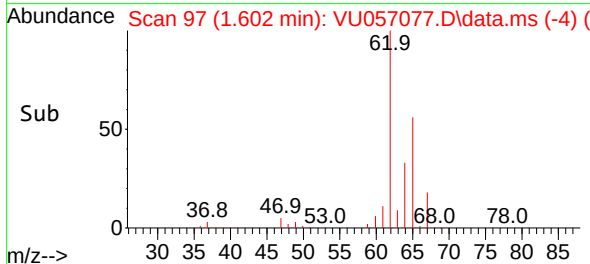
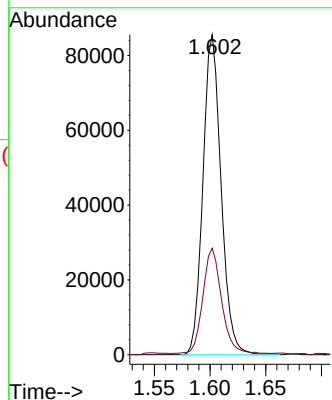


#5  
 Vinyl chloride  
 Concen: 4.980 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :

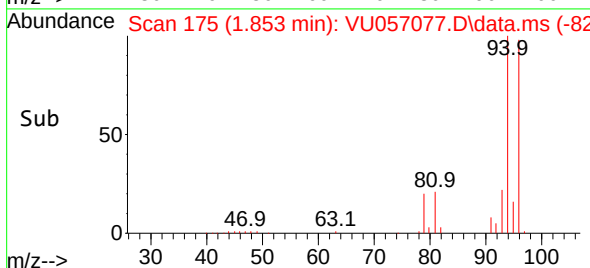
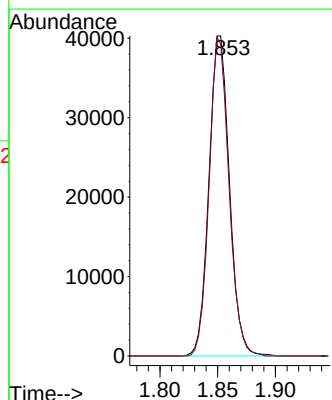
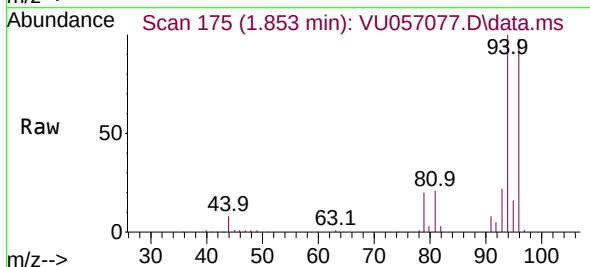


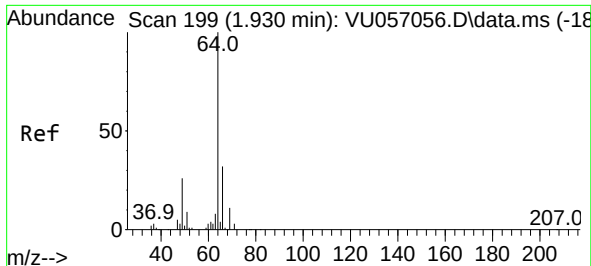
Tgt Ion: 62 Resp: 97069  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 22.8 42.4



#6  
 Bromomethane  
 Concen: 4.337 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

Tgt Ion: 94 Resp: 49843  
 Ion Ratio Lower Upper  
 94 100  
 96 97.6 67.8 125.8

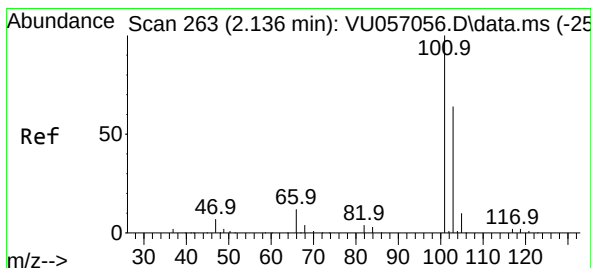
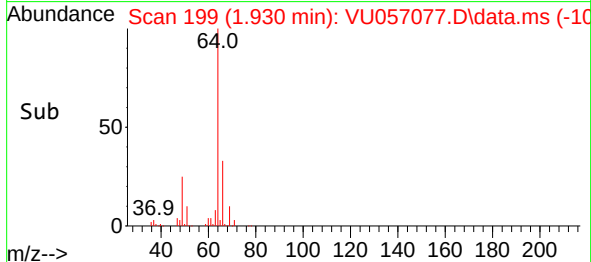
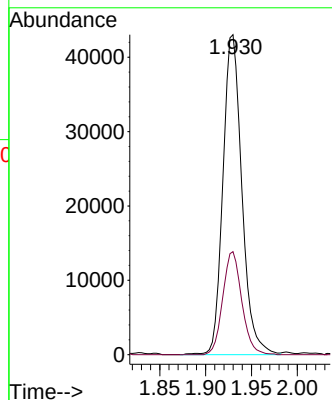
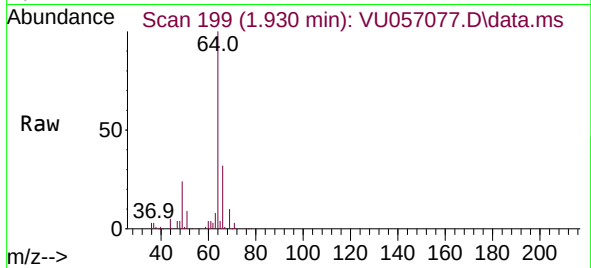




#8  
Chloroethane  
Concen: 5.419 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

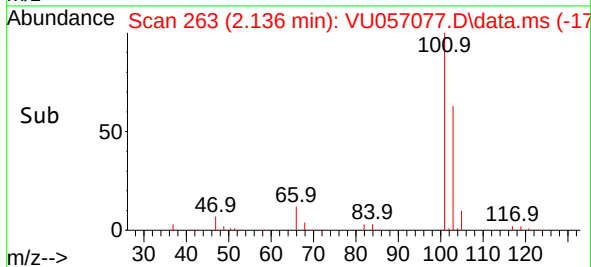
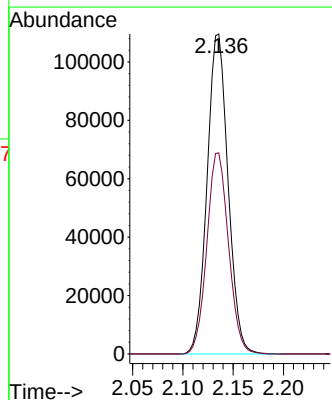
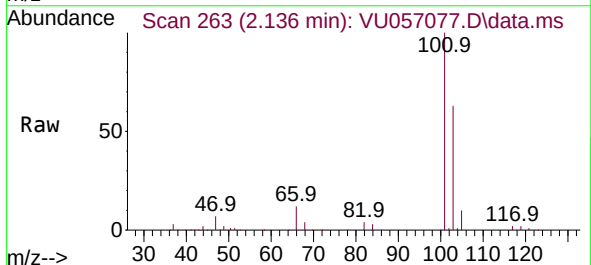
Instrument :  
MSVOA\_U  
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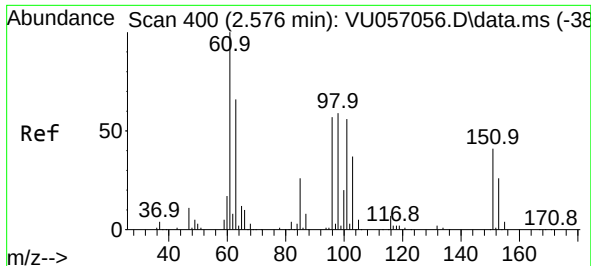
Tgt Ion: 64 Resp: 61875  
Ion Ratio Lower Upper  
64 100  
66 32.2 21.4 39.8



#9  
Trichlorofluoromethane  
Concen: 5.788 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion:101 Resp: 159000  
Ion Ratio Lower Upper  
101 100  
103 64.9 51.4 77.2

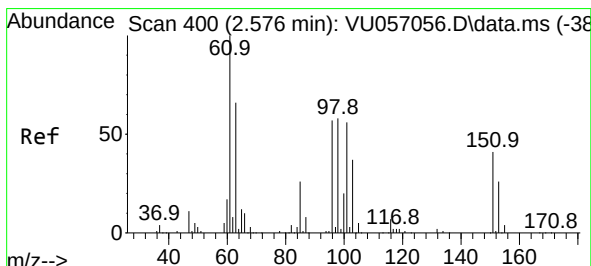
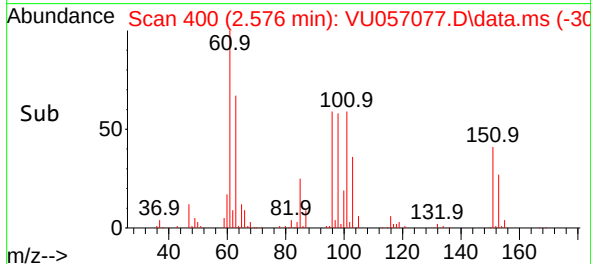
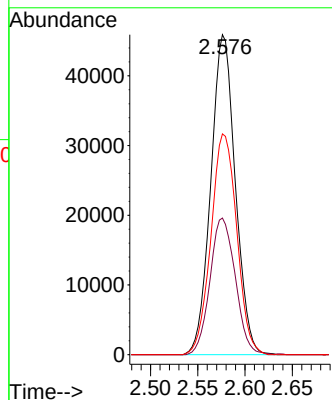
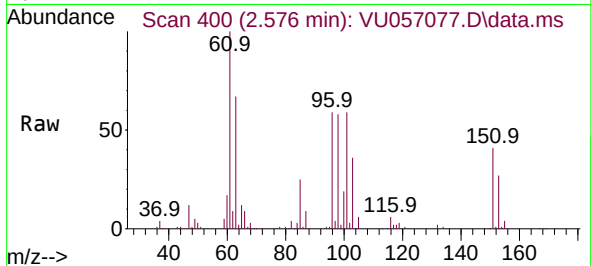




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 4.914 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

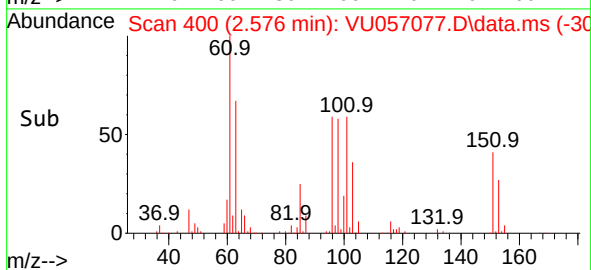
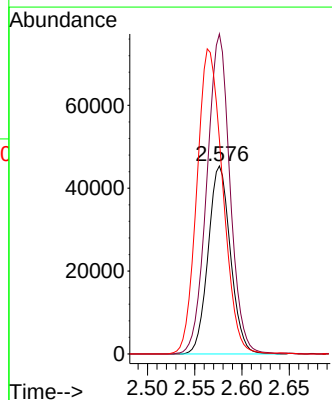
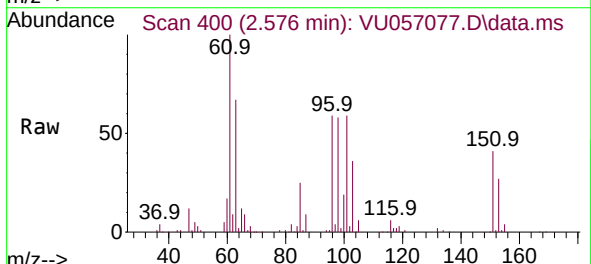
Instrument :  
 MSVOA\_U  
 ClientSampleId :

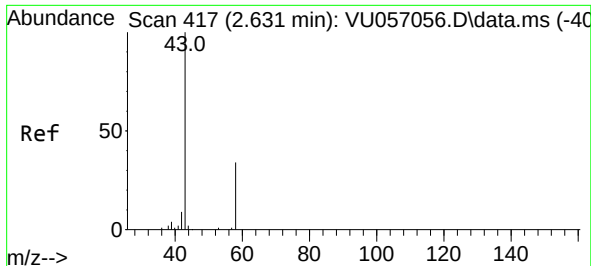
Tgt Ion:101 Resp: 82807  
 Ion Ratio Lower Upper  
 101 100  
 85 44.0 35.2 52.8  
 151 72.6 56.0 84.0



#12  
 1,1-Dichloroethene  
 Concen: 4.810 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU057077.D  
 Acq: 20 Dec 2023 04:52

Tgt Ion: 96 Resp: 74397  
 Ion Ratio Lower Upper  
 96 100  
 61 170.1 119.0 221.0  
 63 114.1 88.7 164.7





#13

Acetone

Concen: 42.580 ug/L

RT: 2.624 min Scan# 41

Delta R.T. -0.006 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

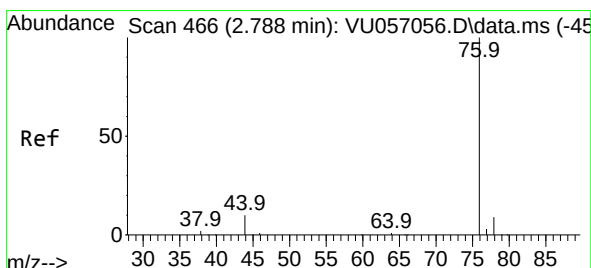
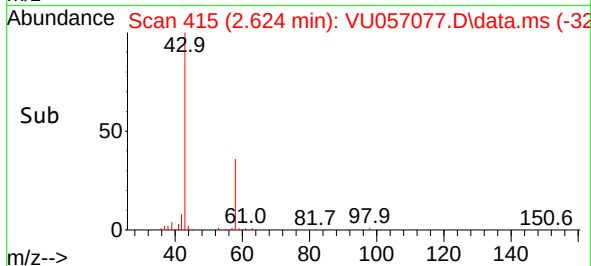
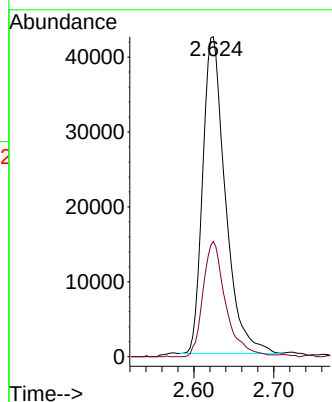
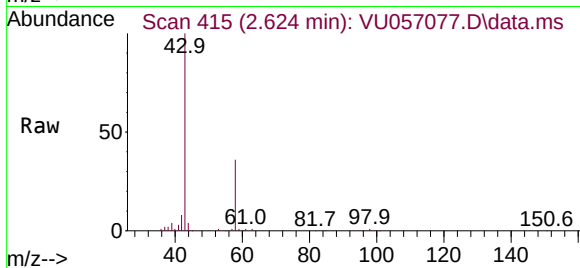
ClientSampleId :

Tgt Ion: 43 Resp: 83685

Ion Ratio Lower Upper

43 100

58 36.3 0.0 72.6



#14

Carbon disulfide

Concen: 4.128 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU057077.D

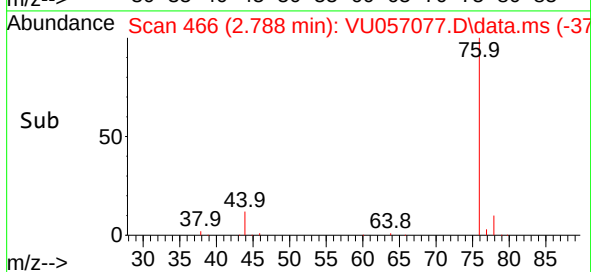
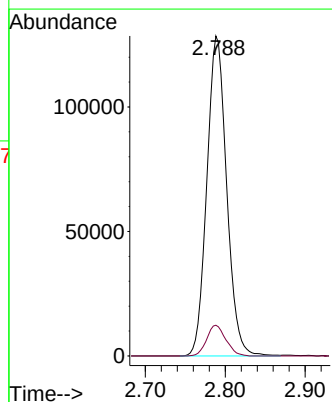
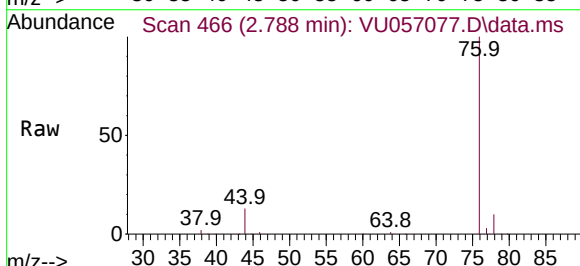
Acq: 20 Dec 2023 04:52

Tgt Ion: 76 Resp: 221551

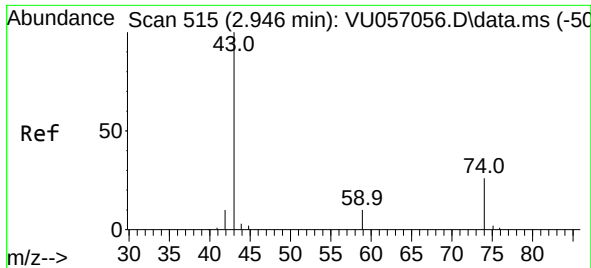
Ion Ratio Lower Upper

76 100

78 9.6 7.3 10.9



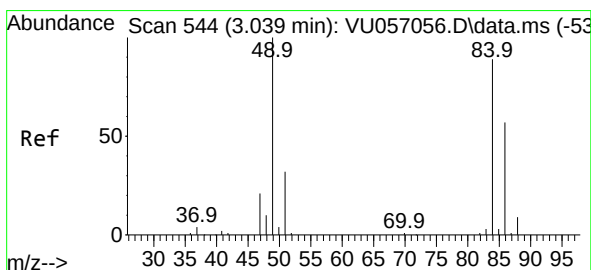
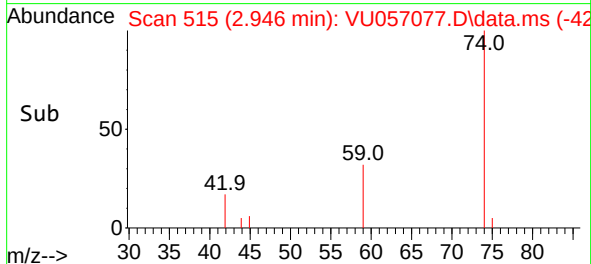
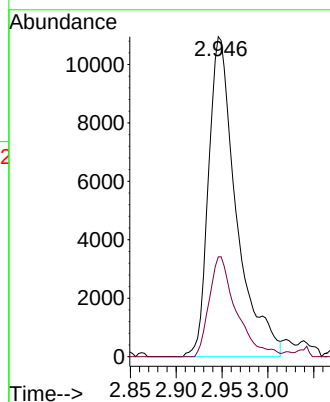
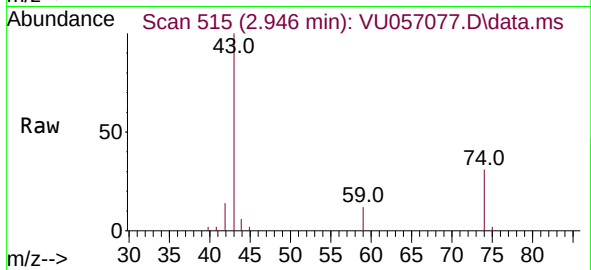




#15  
Methyl Acetate  
Concen: 4.316 ug/L  
RT: 2.946 min Scan# 515  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

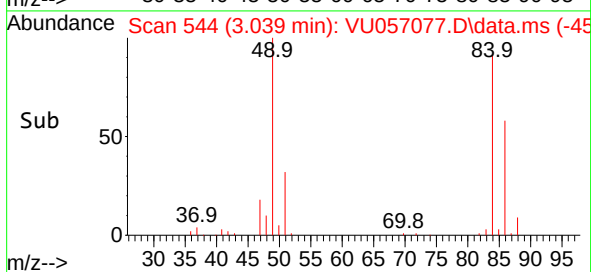
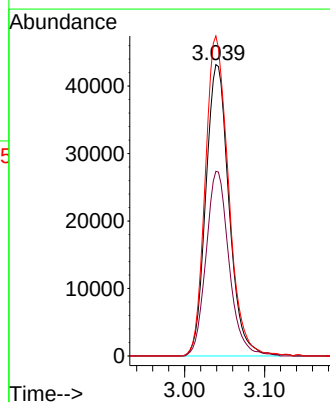
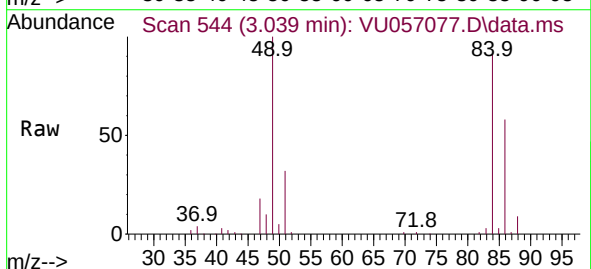
Instrument :  
MSVOA\_U  
ClientSampleId :

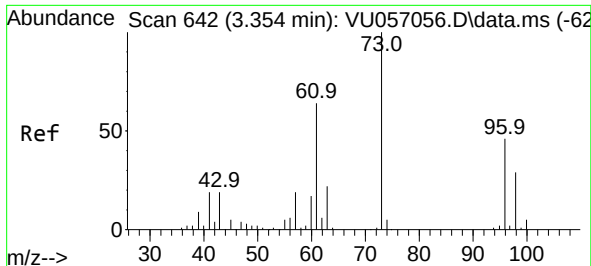
Tgt Ion: 43 Resp: 23092  
Ion Ratio Lower Upper  
43 100  
74 30.4 21.0 31.6



#16  
Methylene chloride  
Concen: 5.156 ug/L  
RT: 3.039 min Scan# 544  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 84 Resp: 86882  
Ion Ratio Lower Upper  
84 100  
86 63.4 43.6 81.0  
49 109.8 80.6 149.6

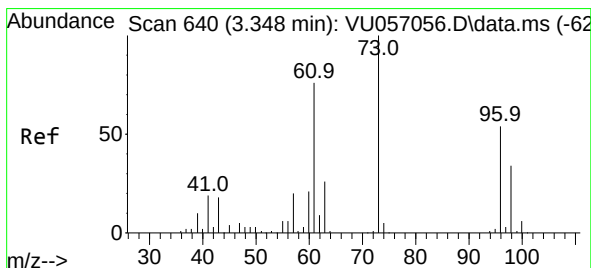
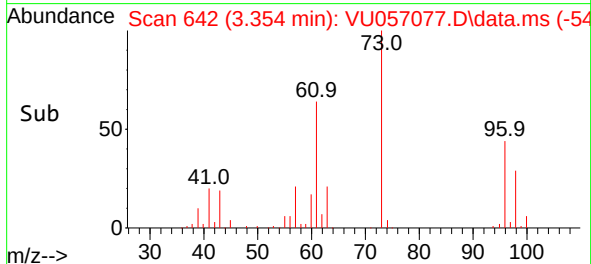
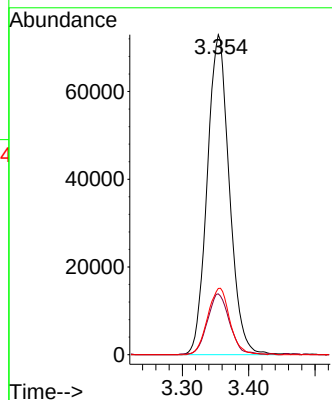
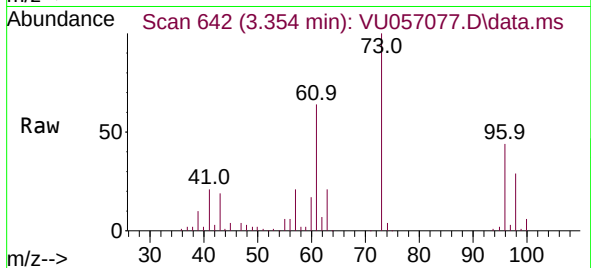




#17  
Methyl tert-butyl Ether  
Concen: 4.925 ug/L  
RT: 3.354 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

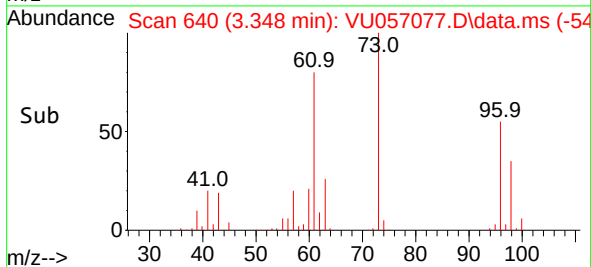
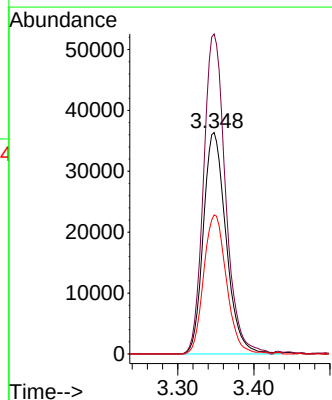
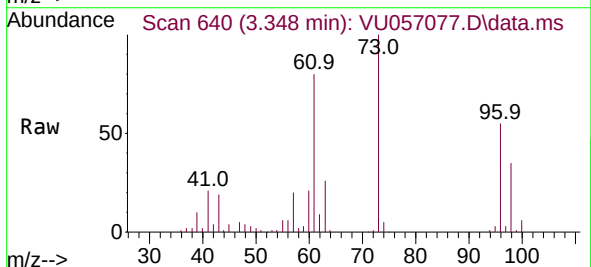
Instrument :  
MSVOA\_U  
ClientSampleId :

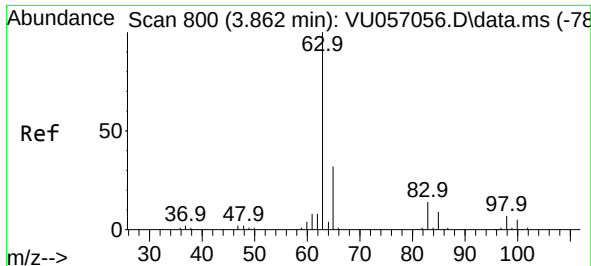
Tgt Ion: 73 Resp: 168918  
Ion Ratio Lower Upper  
73 100  
43 19.2 14.4 21.6  
57 20.8 17.8 26.8



#18  
trans-1,2-Dichloroethene  
Concen: 4.821 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 96 Resp: 75608  
Ion Ratio Lower Upper  
96 100  
61 144.5 101.8 189.0  
98 62.8 43.0 79.8





#19

1,1-Dichloroethane

Concen: 4.900 ug/L

RT: 3.862 min Scan# 80

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :

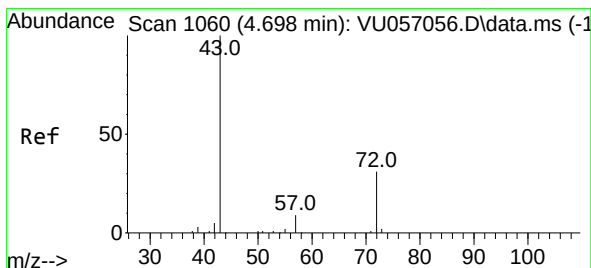
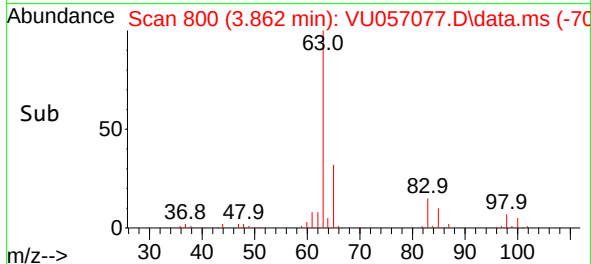
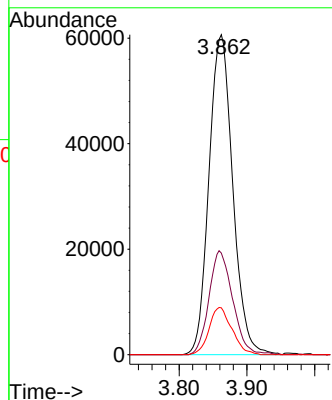
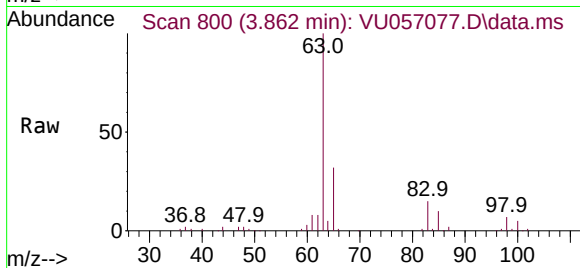
Tgt Ion: 63 Resp: 147819

Ion Ratio Lower Upper

63 100

65 31.8 22.9 42.5

83 14.6 10.1 18.9



#21

2-Butanone

Concen: 41.153 ug/L

RT: 4.695 min Scan# 1059

Delta R.T. -0.003 min

Lab File: VU057077.D

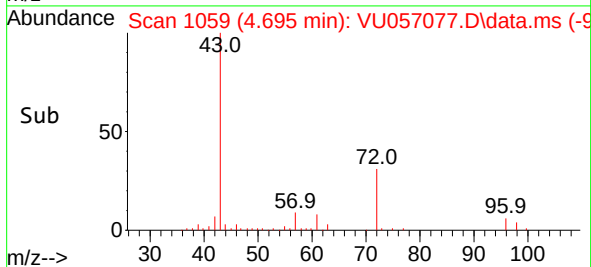
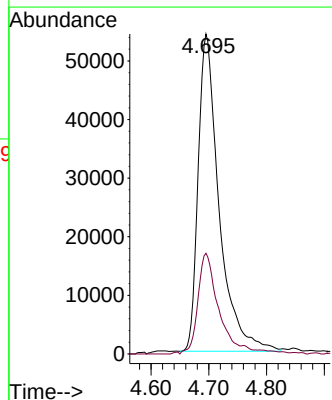
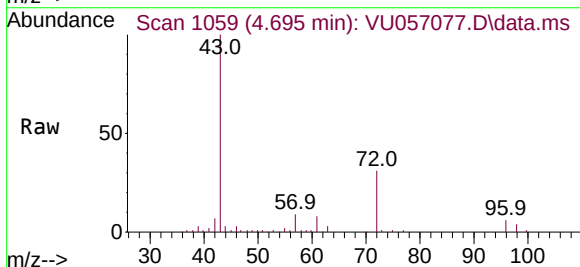
Acq: 20 Dec 2023 04:52

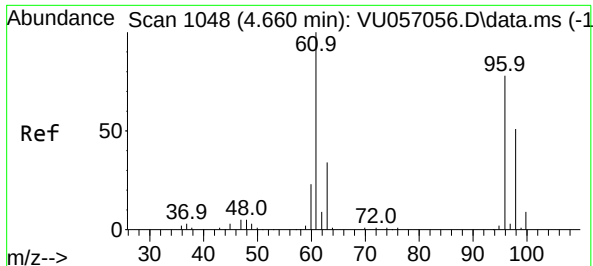
Tgt Ion: 43 Resp: 136395

Ion Ratio Lower Upper

43 100

72 30.1 14.6 43.8





#22

cis-1,2-Dichloroethene

Concen: 4.866 ug/L

RT: 4.660 min Scan# 110

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :

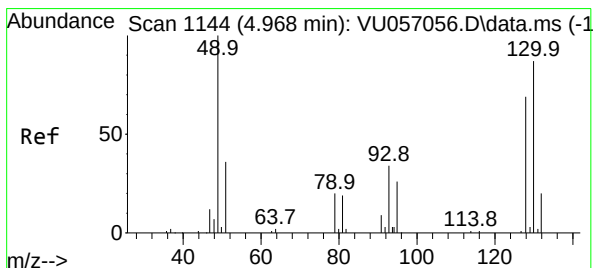
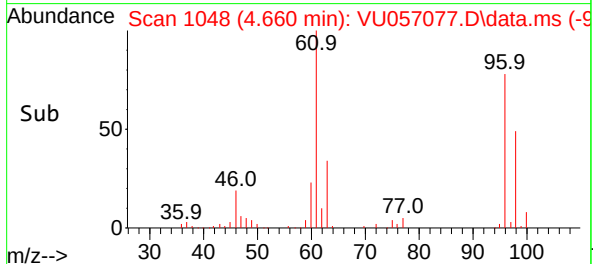
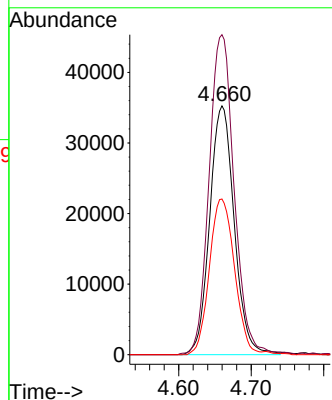
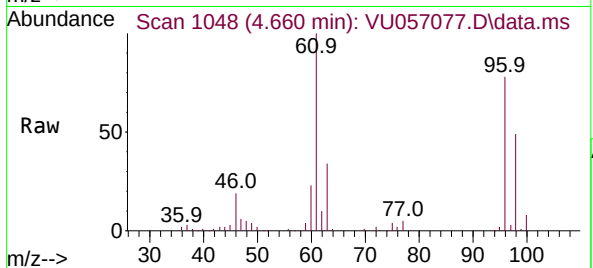
Tgt Ion: 96 Resp: 83015

Ion Ratio Lower Upper

96 100

61 128.6 91.3 169.6

98 62.6 44.2 82.0



#23

Bromochloromethane

Concen: 5.003 ug/L

RT: 4.965 min Scan# 1143

Delta R.T. -0.003 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Tgt Ion: 128 Resp: 35731

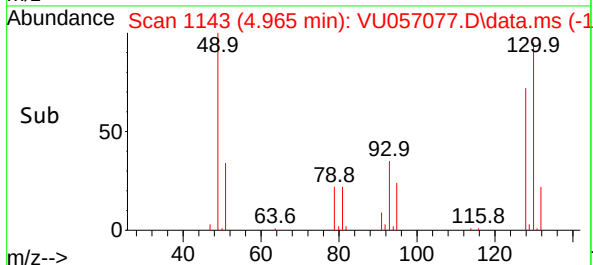
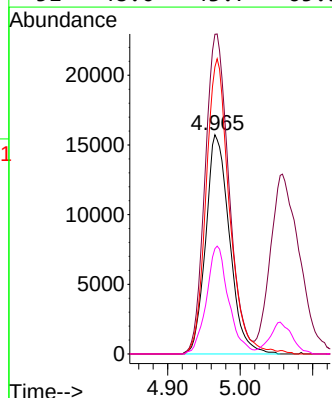
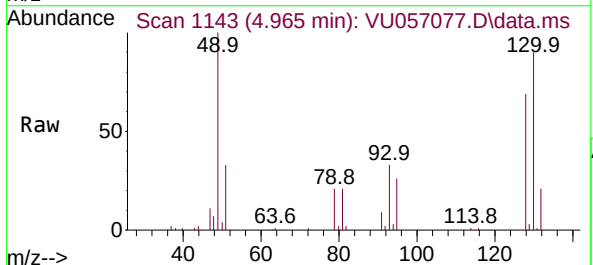
Ion Ratio Lower Upper

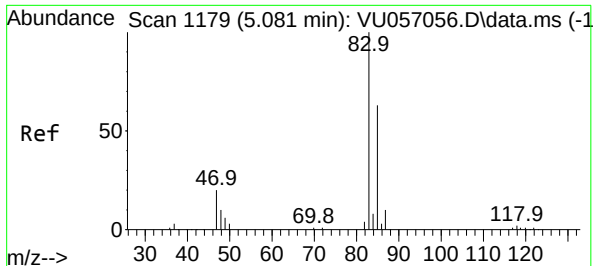
128 100

49 145.9 113.8 211.3

130 131.0 90.6 168.3

51 48.0 43.7 65.5

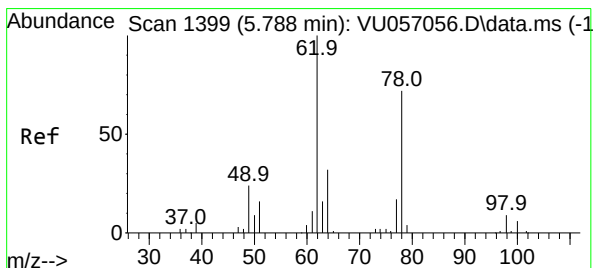
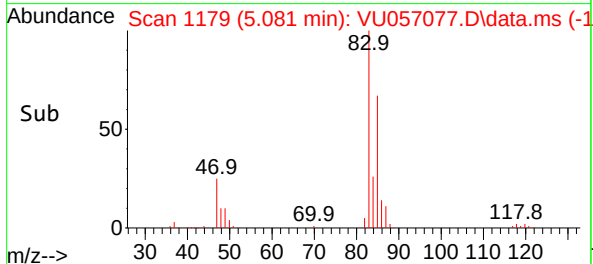
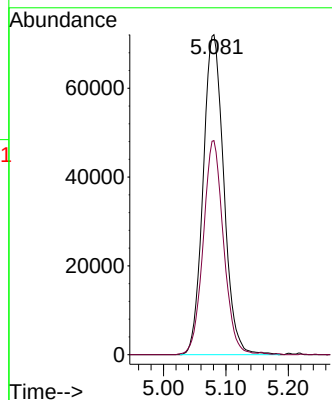
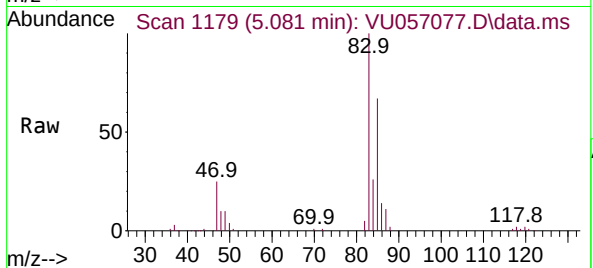




#25  
Chloroform  
Concen: 5.256 ug/L  
RT: 5.081 min Scan# 1179  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

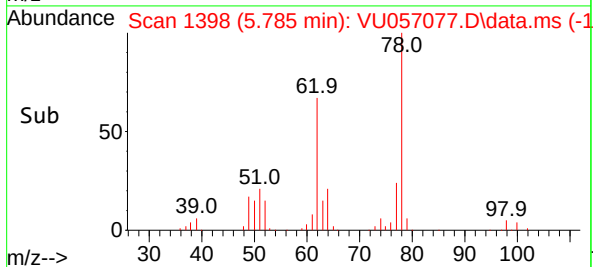
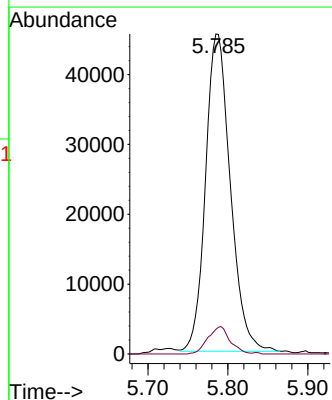
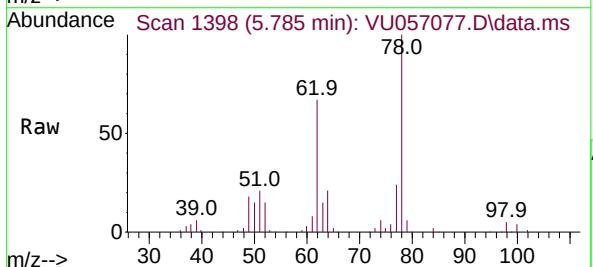
Instrument :  
MSVOA\_U  
ClientSampleId :

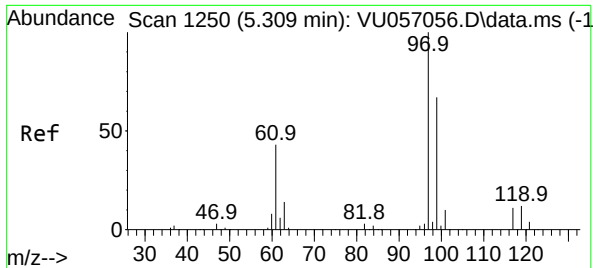
Tgt Ion: 83 Resp: 166084  
Ion Ratio Lower Upper  
83 100  
85 66.9 45.8 85.0



#27  
1,2-Dichloroethane  
Concen: 5.243 ug/L  
RT: 5.785 min Scan# 1398  
Delta R.T. -0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 62 Resp: 97990  
Ion Ratio Lower Upper  
62 100  
98 7.7 7.8 11.6#

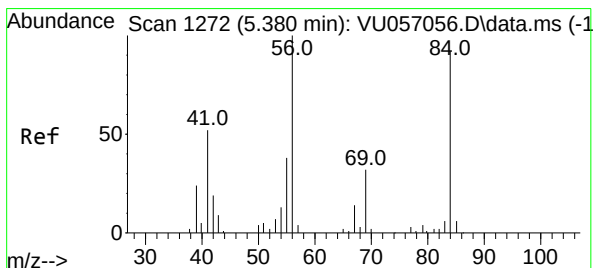
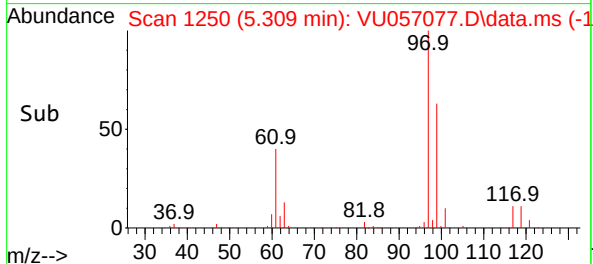
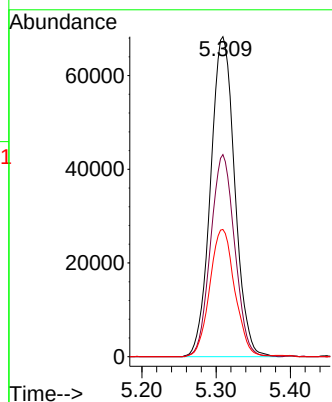
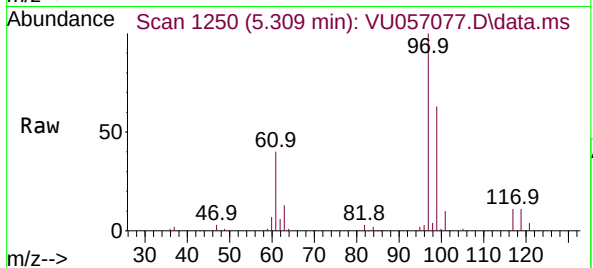




#29  
1,1,1-Trichloroethane  
Concen: 5.676 ug/L  
RT: 5.309 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

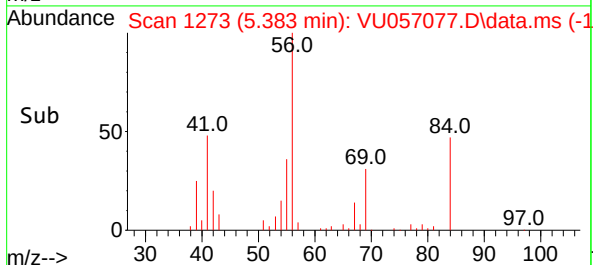
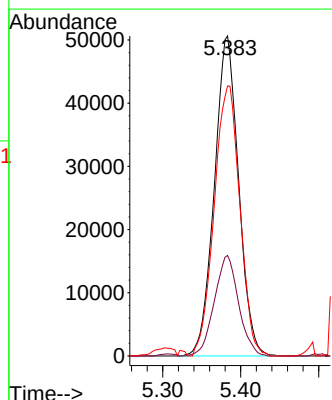
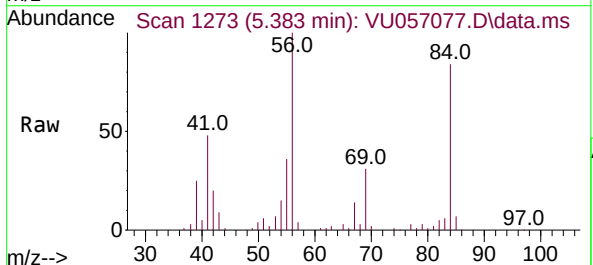
Instrument :  
MSVOA\_U  
ClientSampleId :

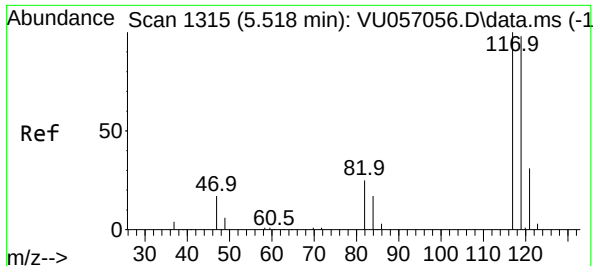
Tgt Ion: 97 Resp: 154791  
Ion Ratio Lower Upper  
97 100  
99 62.9 52.5 78.7  
61 41.0 34.2 51.2



#30  
Cyclohexane  
Concen: 4.278 ug/L  
RT: 5.383 min Scan# 1273  
Delta R.T. 0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 56 Resp: 109491  
Ion Ratio Lower Upper  
56 100  
69 31.4 24.9 37.3  
84 89.3 67.6 101.4

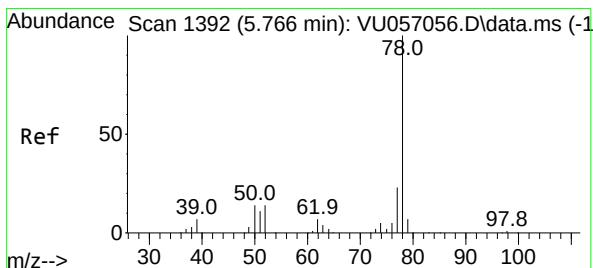
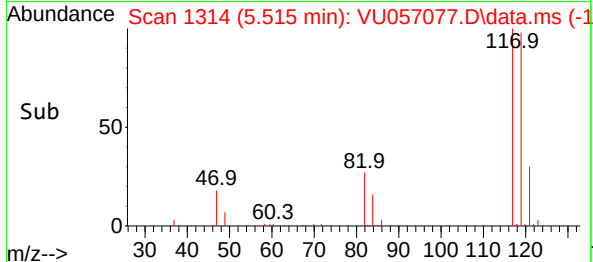
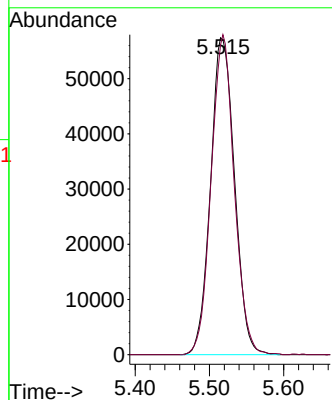
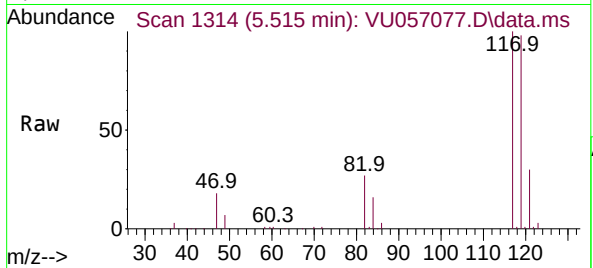




#31  
Carbon tetrachloride  
Concen: 5.436 ug/L  
RT: 5.515 min Scan# 117  
Delta R.T. -0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

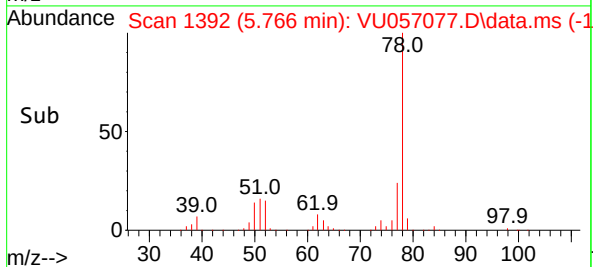
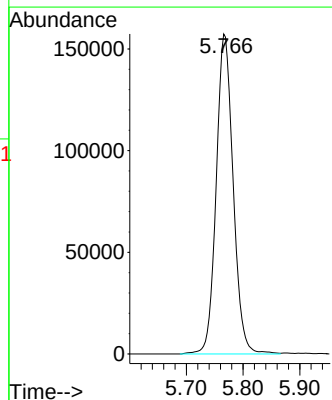
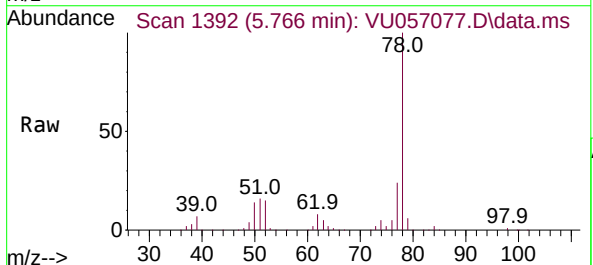
Instrument :  
MSVOA\_U  
ClientSampleId :

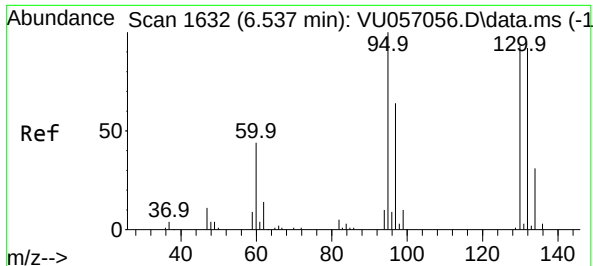
Tgt Ion:117 Resp: 128852  
Ion Ratio Lower Upper  
117 100  
119 97.2 76.2 114.4



#33  
Benzene  
Concen: 4.929 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

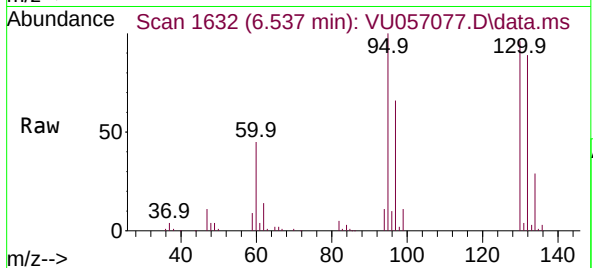
Tgt Ion: 78 Resp: 326759



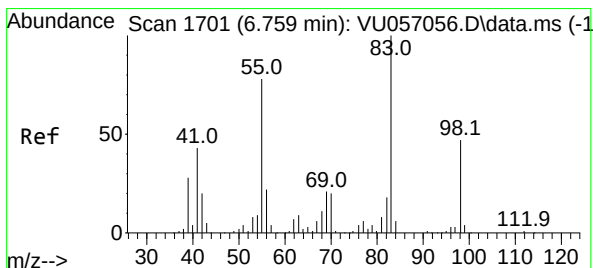
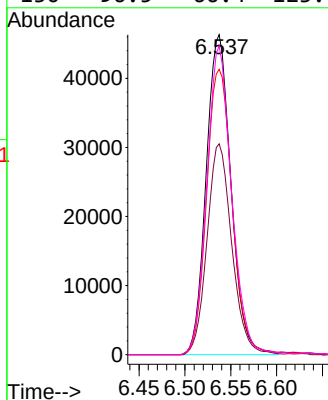
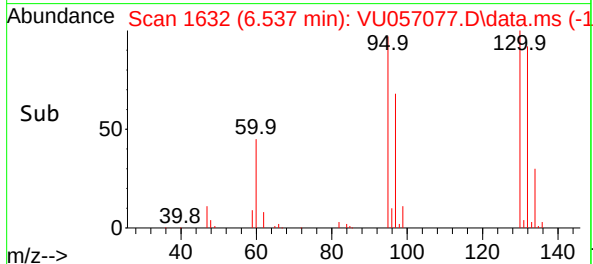


#34  
Trichloroethene  
Concen: 4.796 ug/L  
RT: 6.537 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

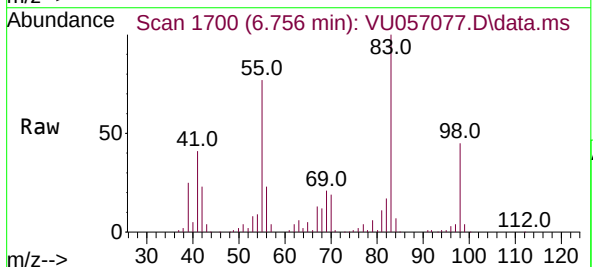
Instrument :  
MSVOA\_U  
ClientSampleId :



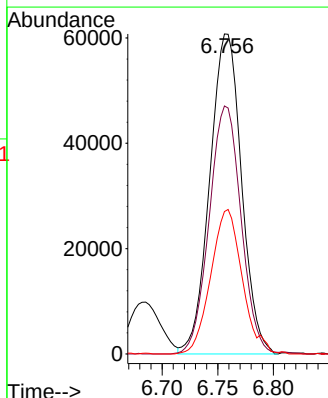
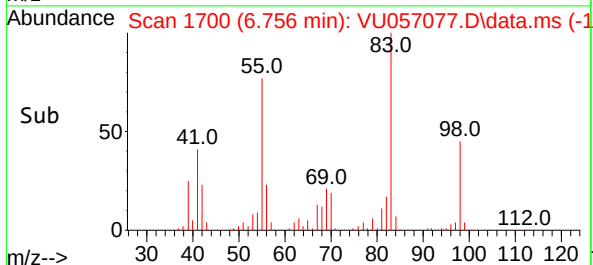
Tgt Ion: 95 Resp: 87228  
Ion Ratio Lower Upper  
95 100  
97 65.9 46.1 85.5  
132 89.2 63.6 118.0  
130 96.5 66.4 123.4



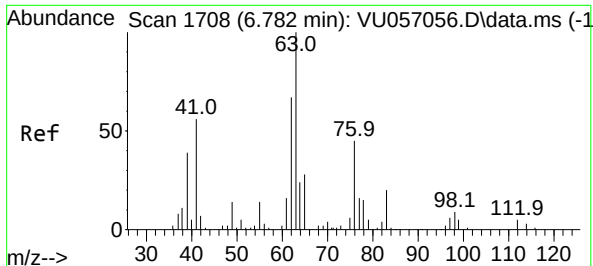
#35  
Methylcyclohexane  
Concen: 4.485 ug/L  
RT: 6.756 min Scan# 1700  
Delta R.T. -0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52



Tgt Ion: 83 Resp: 120371  
Ion Ratio Lower Upper  
83 100  
55 77.7 64.6 97.0  
98 44.7 36.1 54.1



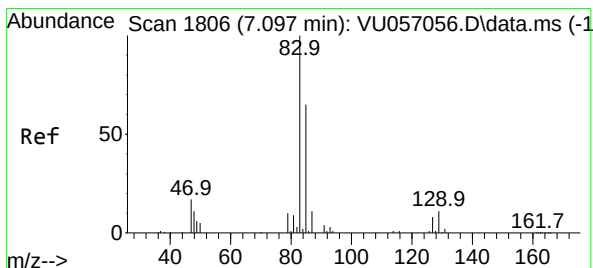
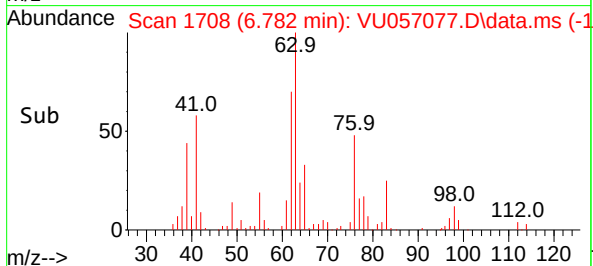
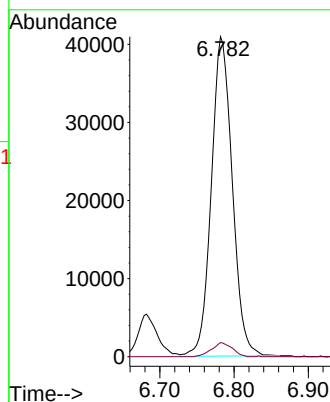
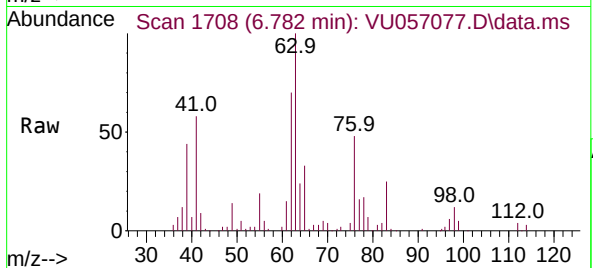




#37  
1,2-Dichloropropane  
Concen: 4.733 ug/L  
RT: 6.782 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

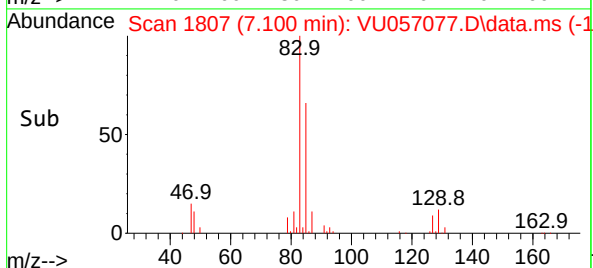
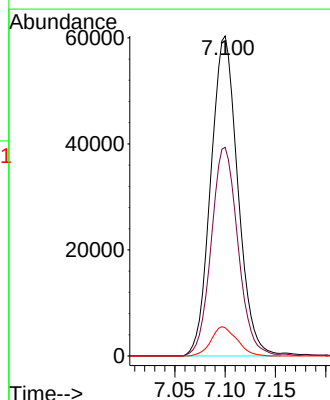
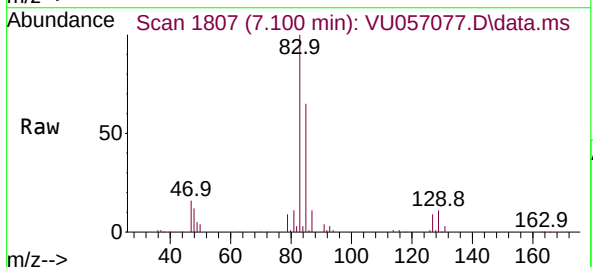
Instrument :  
MSVOA\_U  
ClientSampleId :

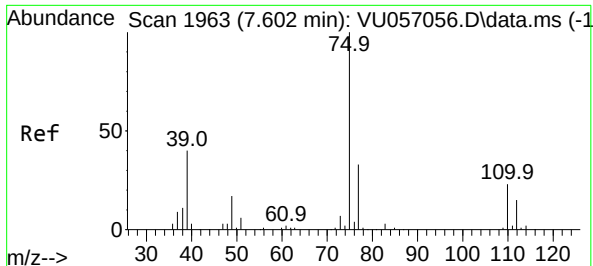
Tgt Ion: 63 Resp: 80273  
Ion Ratio Lower Upper  
63 100  
112 4.3 3.3 4.9



#38  
Bromodichloromethane  
Concen: 5.216 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. 0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 83 Resp: 112814  
Ion Ratio Lower Upper  
83 100  
85 65.2 45.0 83.6  
127 8.8 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 4.710 ug/L

RT: 7.602 min Scan# 1963

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

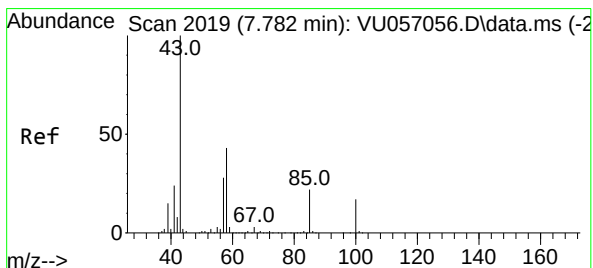
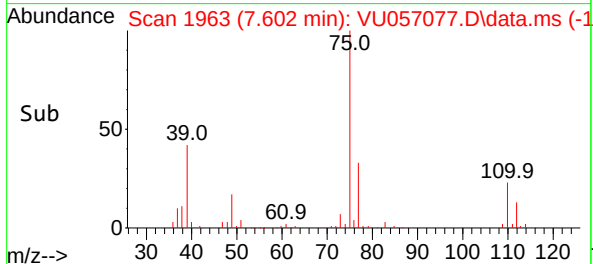
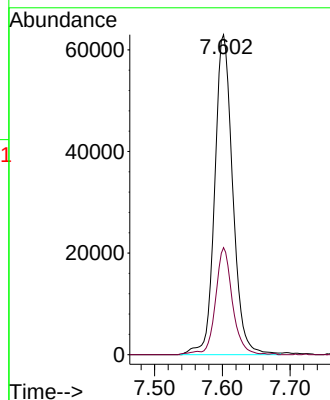
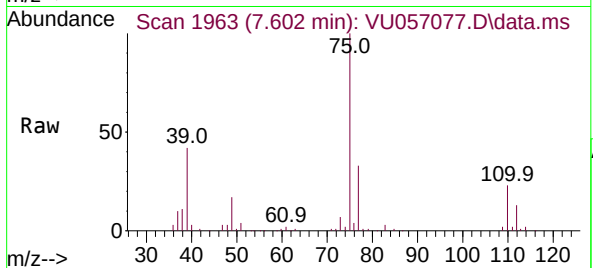
ClientSampleId :

Tgt Ion: 75 Resp: 116412

Ion Ratio Lower Upper

75 100

77 33.4 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 45.028 ug/L

RT: 7.782 min Scan# 2019

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

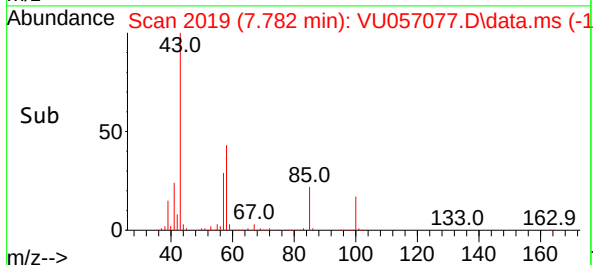
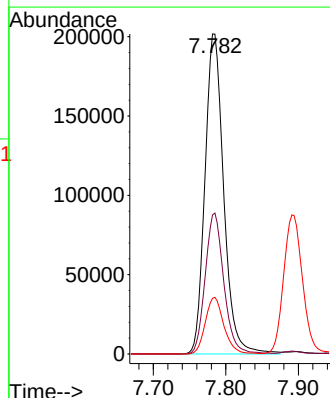
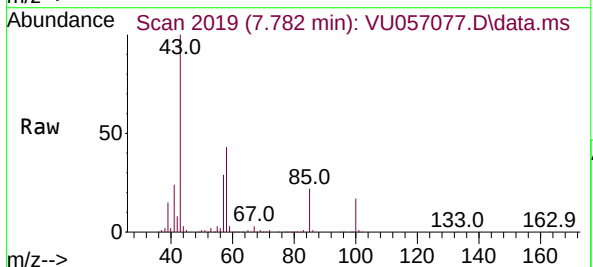
Tgt Ion: 43 Resp: 362615

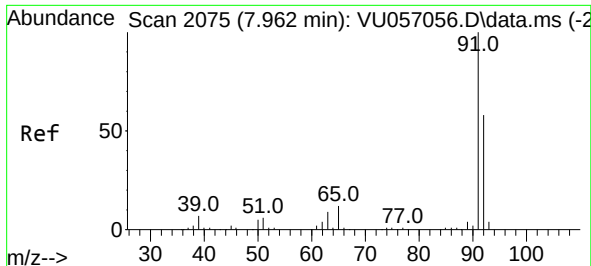
Ion Ratio Lower Upper

43 100

58 43.8 33.7 50.5

100 17.5 13.0 19.4





#42

Toluene

Concen: 5.104 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

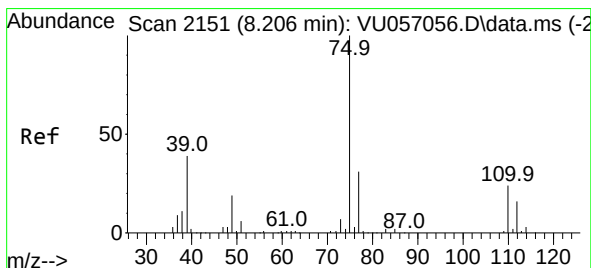
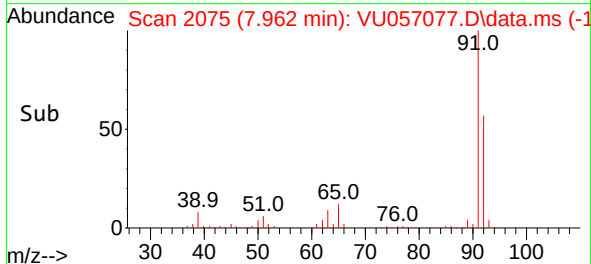
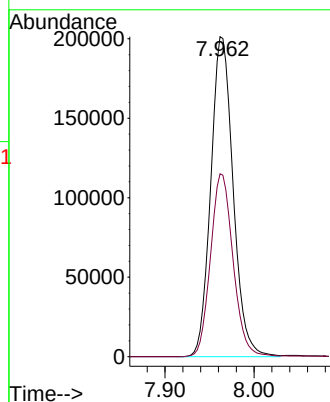
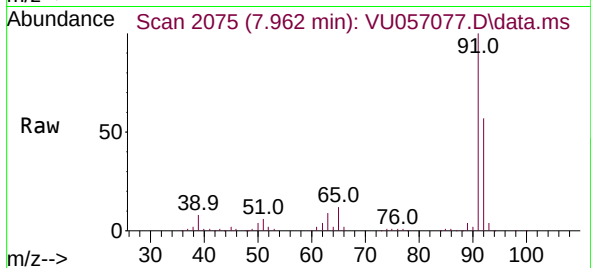
ClientSampleId :

Tgt Ion: 91 Resp: 350128

Ion Ratio Lower Upper

91 100

92 57.2 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 4.894 ug/L

RT: 8.203 min Scan# 2150

Delta R.T. -0.003 min

Lab File: VU057077.D

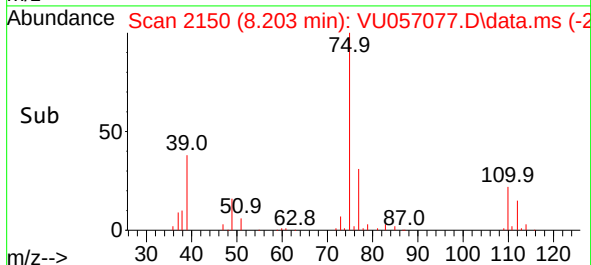
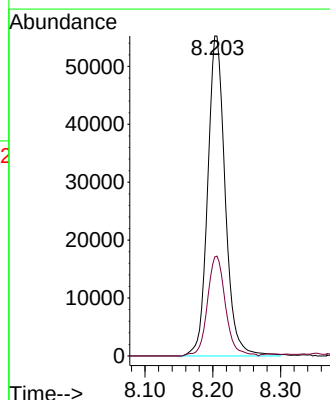
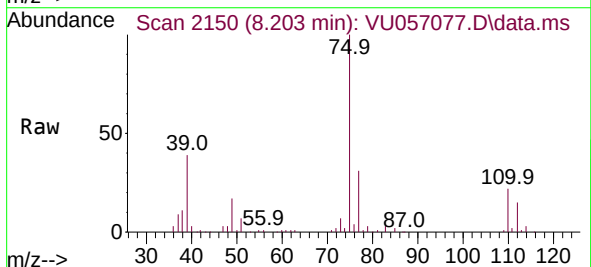
Acq: 20 Dec 2023 04:52

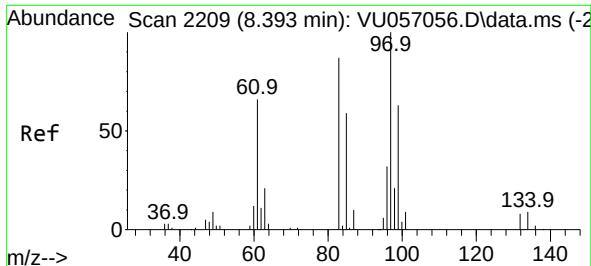
Tgt Ion: 75 Resp: 99154

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.4

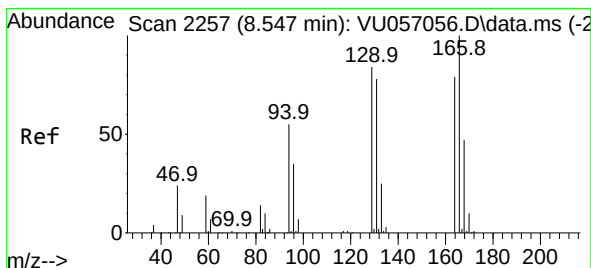
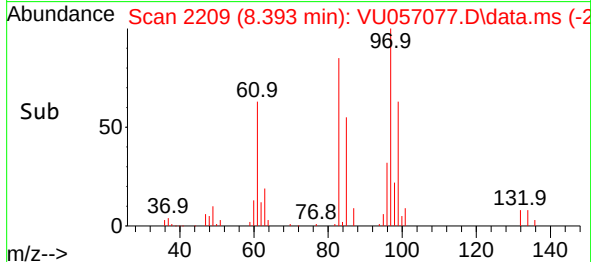
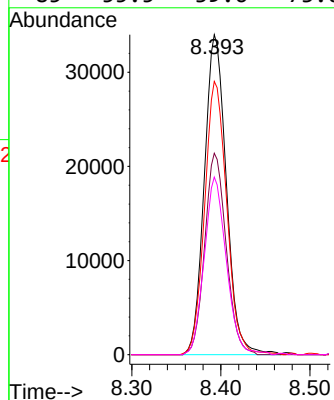
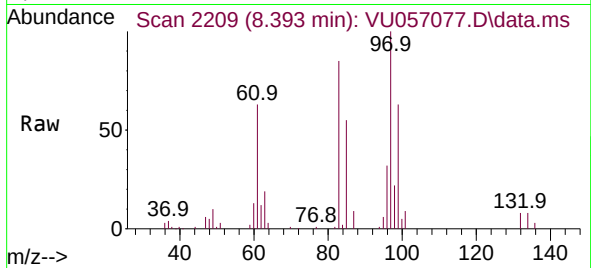




#45  
1,1,2-Trichloroethane  
Concen: 5.083 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

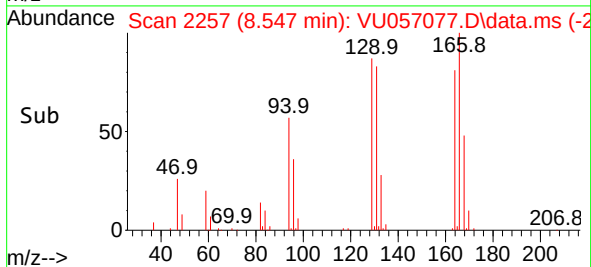
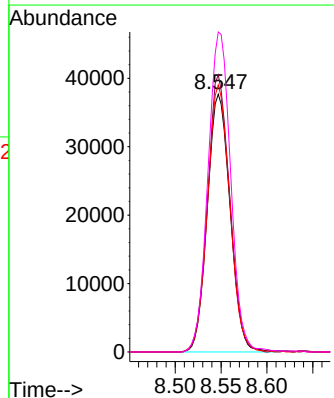
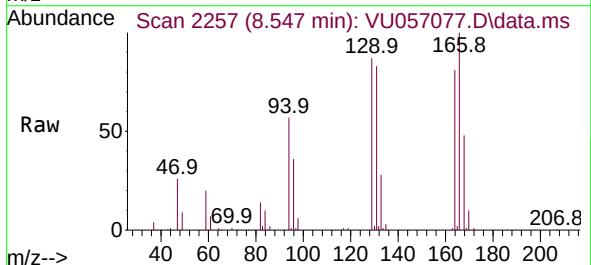
Instrument :  
MSVOA\_U  
ClientSampleId :

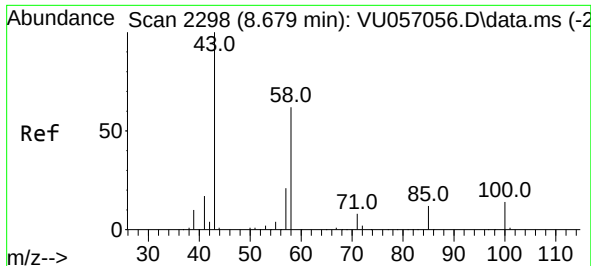
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 58281 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.9  | 41.9  | 77.9  |
| 83       | 85.4  | 59.1  | 109.7 |
| 85       | 55.5  | 39.6  | 73.6  |



#47  
Tetrachloroethene  
Concen: 5.111 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

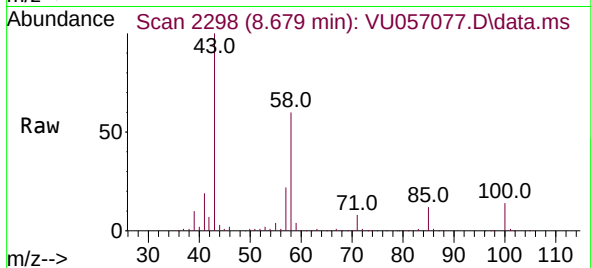
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 65058 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 107.5 | 73.4  | 136.4 |
| 131      | 103.5 | 71.5  | 132.9 |
| 166      | 124.1 | 92.7  | 172.1 |



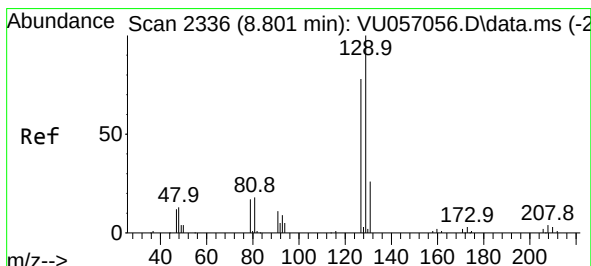
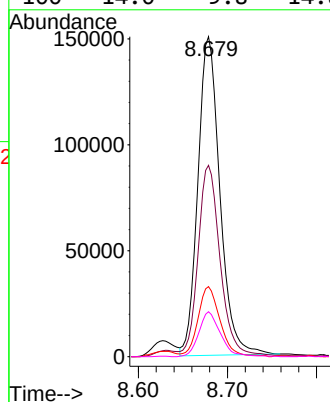
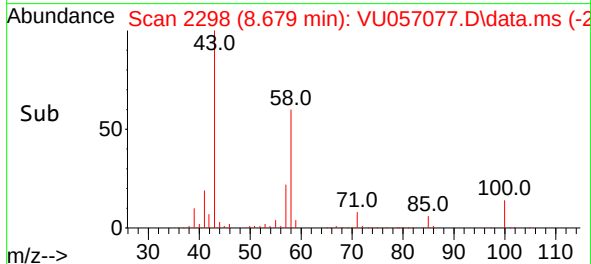


#48  
2-Hexanone  
Concen: 45.080 ug/L  
RT: 8.679 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Instrument :  
MSVOA\_U  
ClientSampleId :

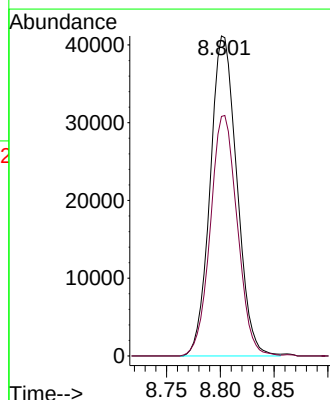
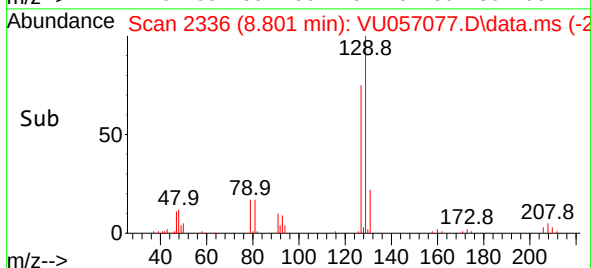
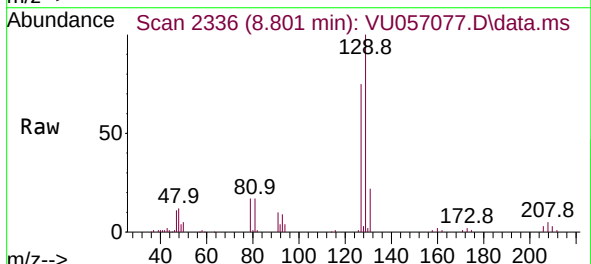


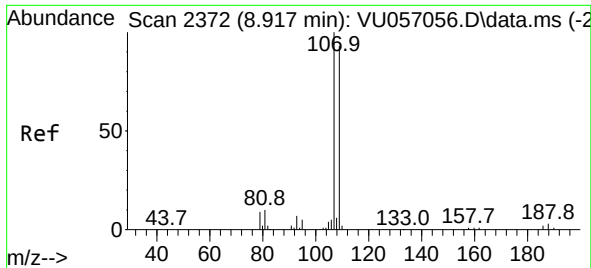
Tgt Ion: 43 Resp: 258565  
Ion Ratio Lower Upper  
43 100  
58 59.5 47.5 71.3  
57 22.2 17.0 25.4  
100 14.0 9.8 14.8



#49  
Dibromochloromethane  
Concen: 5.390 ug/L  
RT: 8.801 min Scan# 2336  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 129 Resp: 71039  
Ion Ratio Lower Upper  
129 100  
127 74.9 53.9 100.1





#50

1,2-Dibromoethane

Concen: 4.991 ug/L

RT: 8.917 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU057077.D

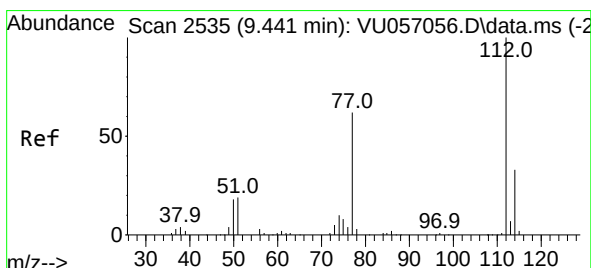
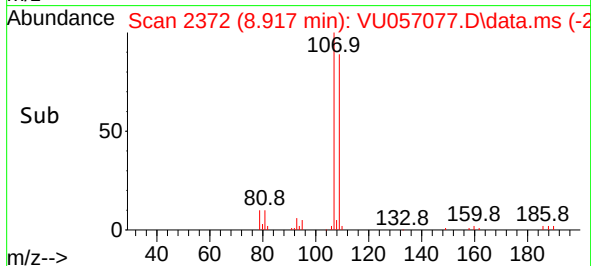
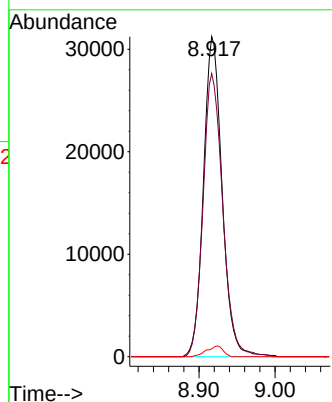
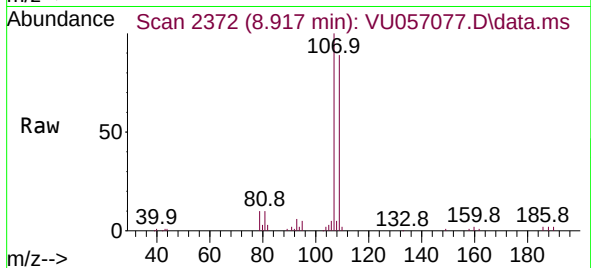
Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:107 | Resp: | 53115      |
| Ion Ratio   | Lower | Upper      |
| 107         | 100   |            |
| 109         | 88.5  | 66.5 123.5 |
| 188         | 2.5   | 2.9 4.3#   |



#51

Chlorobenzene

Concen: 4.931 ug/L

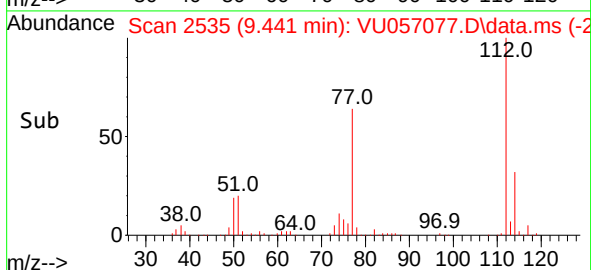
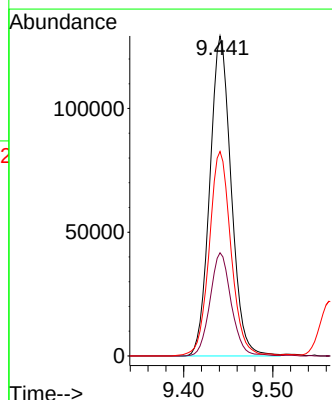
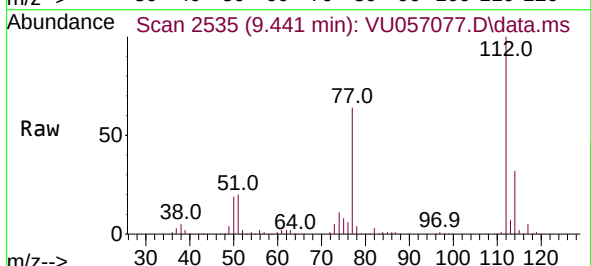
RT: 9.441 min Scan# 2535

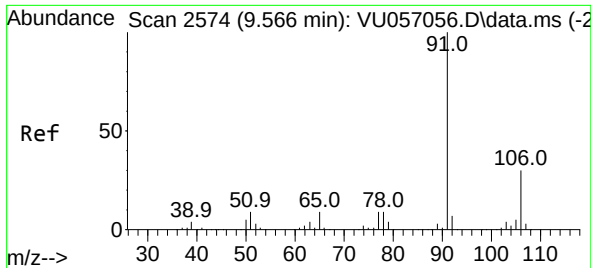
Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:112 | Resp: | 215607    |
| Ion Ratio   | Lower | Upper     |
| 112         | 100   |           |
| 114         | 32.3  | 21.9 40.7 |
| 77          | 63.9  | 51.6 77.4 |

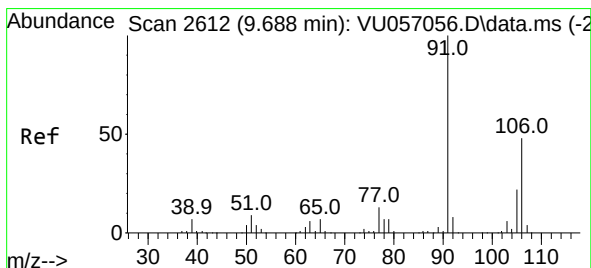
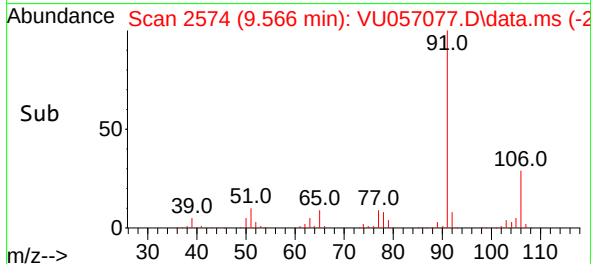
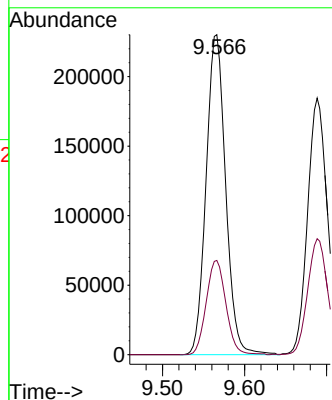
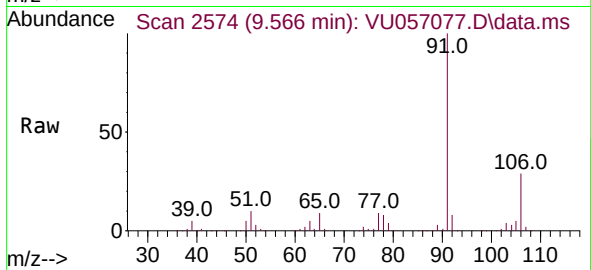




#52  
Ethylbenzene  
Concen: 5.029 ug/L  
RT: 9.566 min Scan# 2574  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

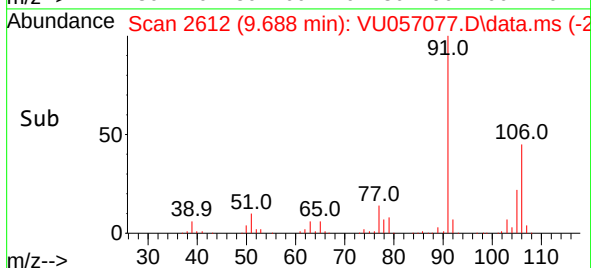
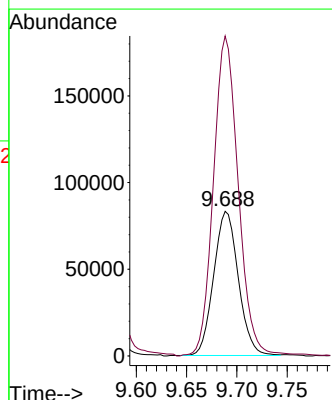
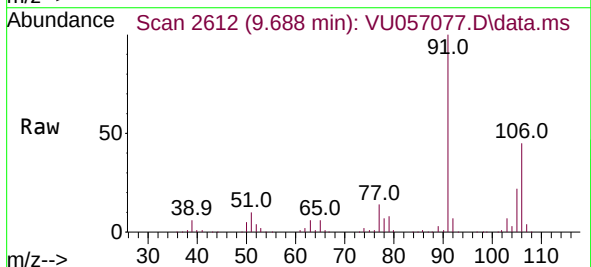
Instrument :  
MSVOA\_U  
ClientSampleId :

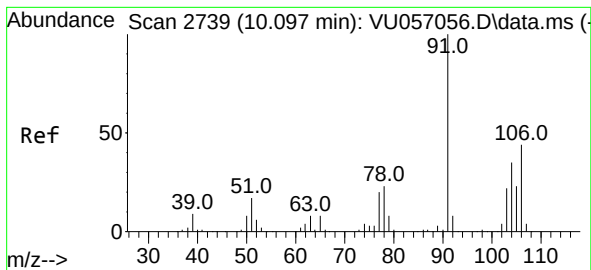
Tgt Ion: 91 Resp: 380591  
Ion Ratio Lower Upper  
91 100  
106 29.5 20.6 38.4



#53  
m,p-Xylene  
Concen: 5.037 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion: 106 Resp: 141995  
Ion Ratio Lower Upper  
106 100  
91 221.1 154.0 286.0





#54

o-Xylene

Concen: 5.153 ug/L

RT: 10.093 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

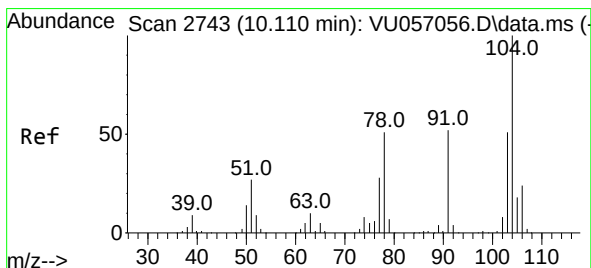
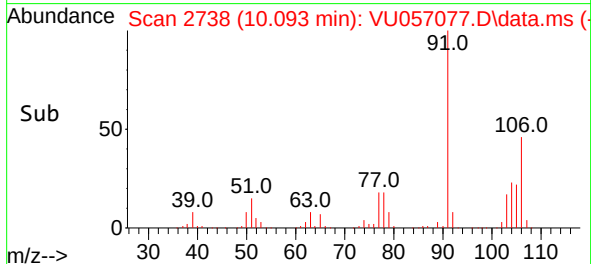
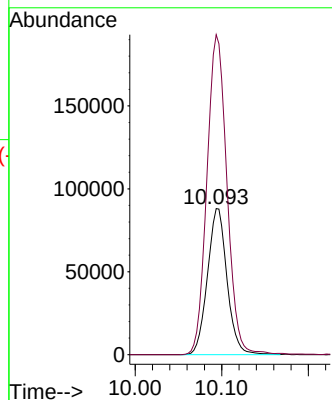
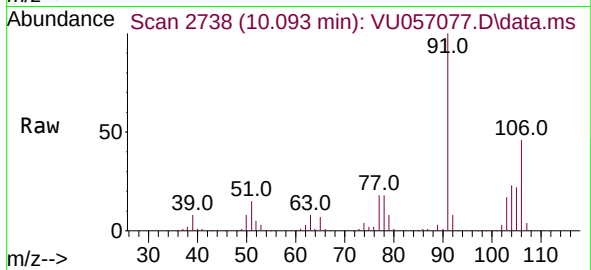
ClientSampleId :

Tgt Ion:106 Resp: 138407

Ion Ratio Lower Upper

106 100

91 219.0 160.2 297.6



#55

Styrene

Concen: 5.259 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. 0.000 min

Lab File: VU057077.D

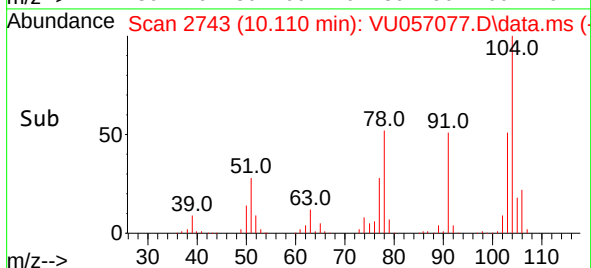
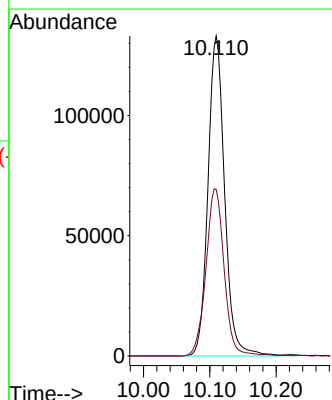
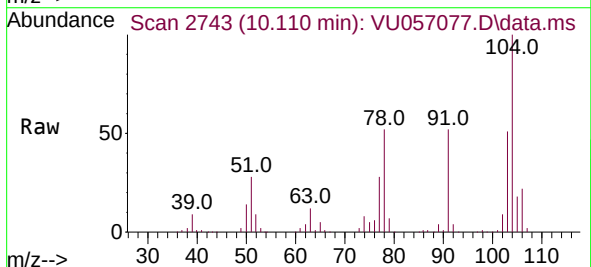
Acq: 20 Dec 2023 04:52

Tgt Ion:104 Resp: 231949

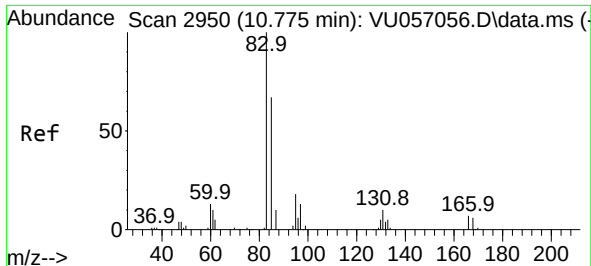
Ion Ratio Lower Upper

104 100

78 52.1 35.6 66.2



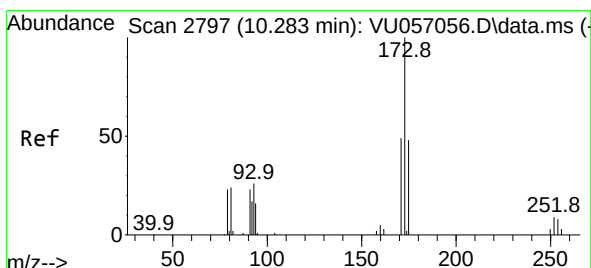
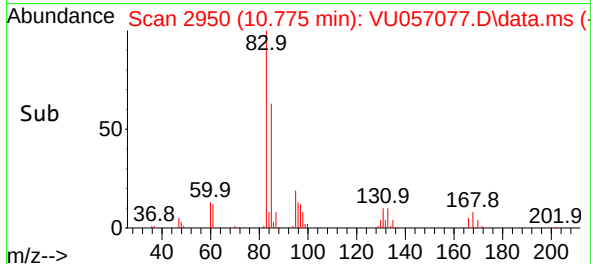
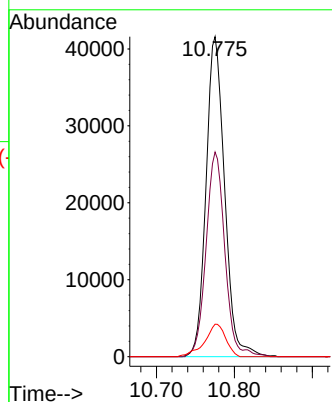
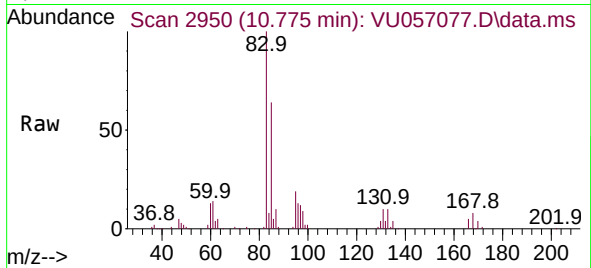




#57  
1,1,2,2-Tetrachloroethane  
Concen: 4.968 ug/L  
RT: 10.775 min Scan# 2950  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

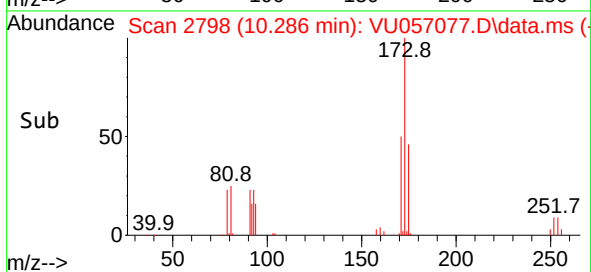
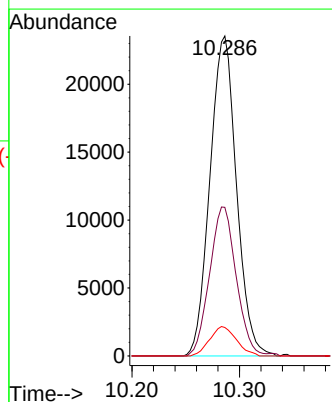
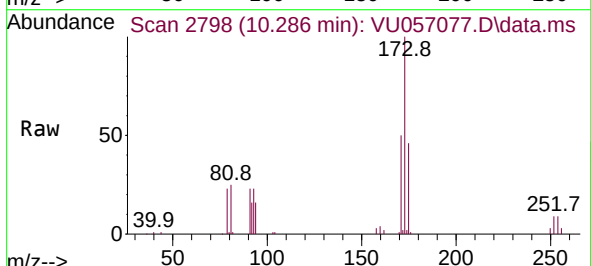
Instrument :  
MSVOA\_U  
ClientSampleId :

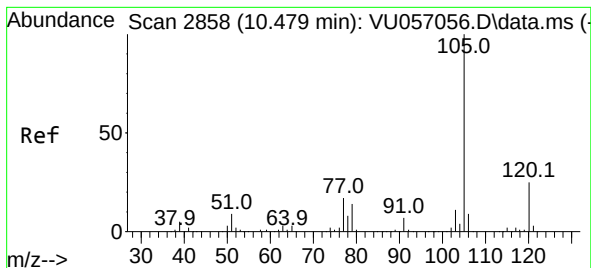
Tgt Ion: 83 Resp: 68823  
Ion Ratio Lower Upper  
83 100  
85 63.9 45.4 84.4  
131 10.1 6.6 9.8#



#59  
Bromoform  
Concen: 5.100 ug/L  
RT: 10.286 min Scan# 2798  
Delta R.T. 0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion:173 Resp: 40407  
Ion Ratio Lower Upper  
173 100  
175 46.5 38.2 57.2  
254 9.2 7.0 10.4





#60

Isopropylbenzene

Concen: 4.911 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :

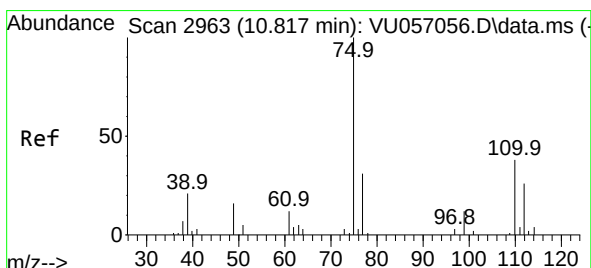
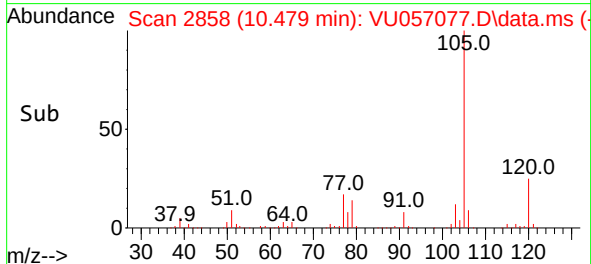
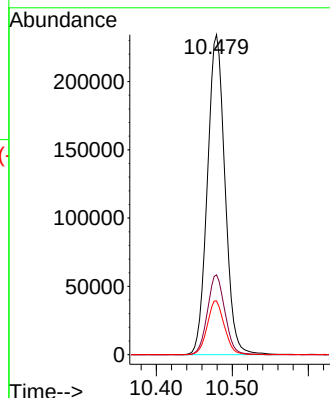
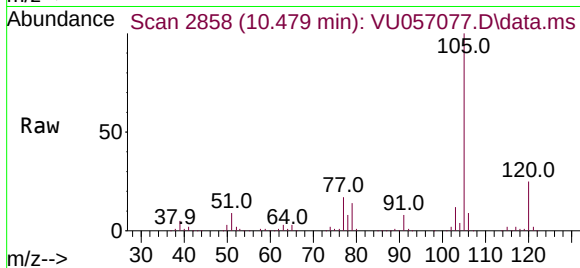
Tgt Ion:105 Resp: 376497

Ion Ratio Lower Upper

105 100

120 24.8 20.1 30.1

77 16.4 13.2 19.8



#61

1,2,3-Trichloropropane

Concen: 4.566 ug/L

RT: 10.817 min Scan# 2963

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

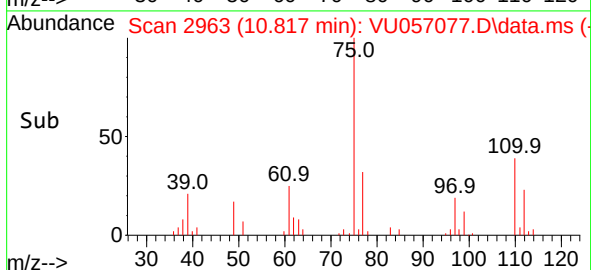
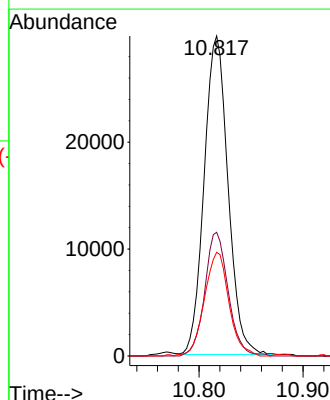
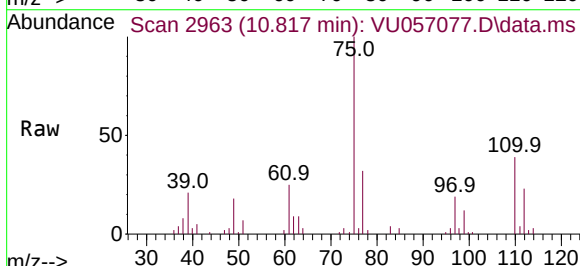
Tgt Ion: 75 Resp: 47579

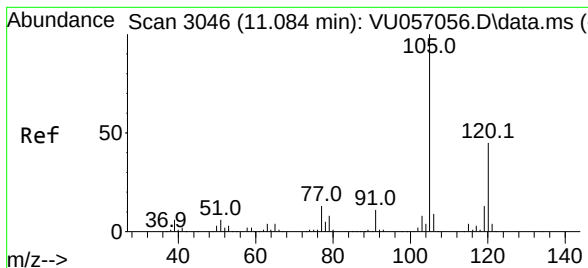
Ion Ratio Lower Upper

75 100

110 38.1 28.4 42.6

77 33.3 26.3 39.5





#62

1,3,5-Trimethylbenzene

Concen: 4.831 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

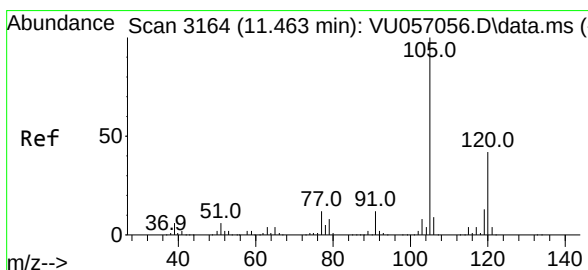
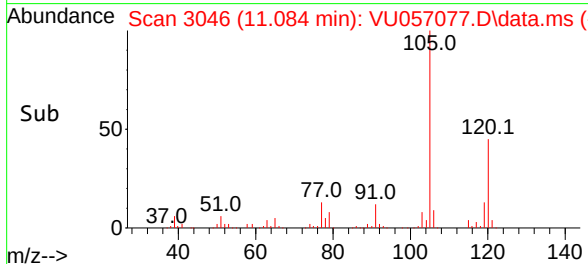
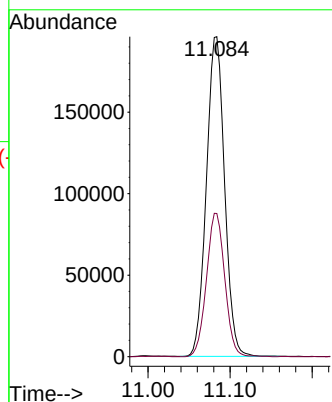
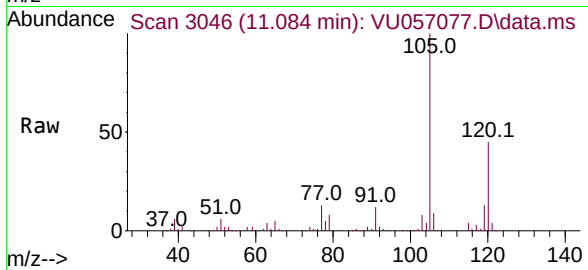
ClientSampleId :

Tgt Ion:105 Resp: 302726

Ion Ratio Lower Upper

105 100

120 45.2 36.8 55.2



#63

1,2,4-Trimethylbenzene

Concen: 4.895 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. -0.003 min

Lab File: VU057077.D

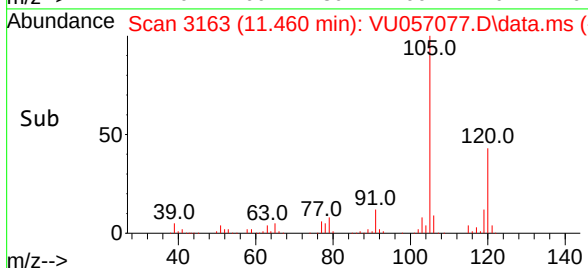
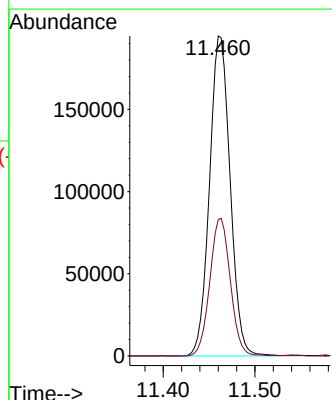
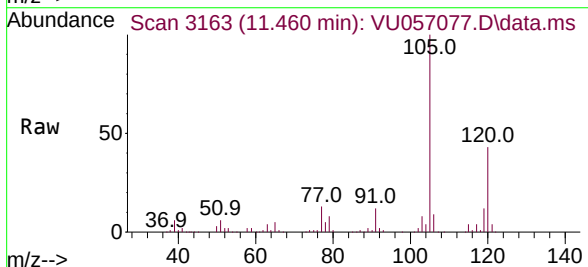
Acq: 20 Dec 2023 04:52

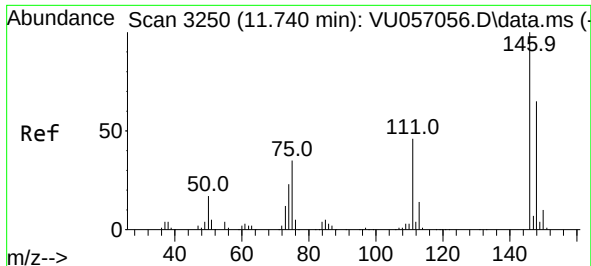
Tgt Ion:105 Resp: 304612

Ion Ratio Lower Upper

105 100

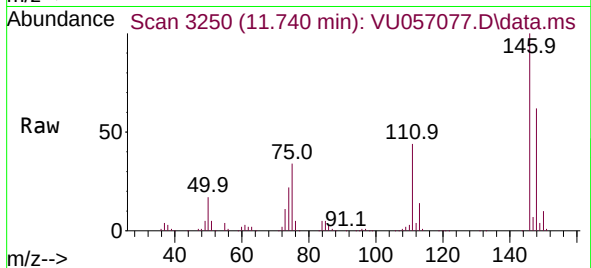
120 42.8 34.2 51.4



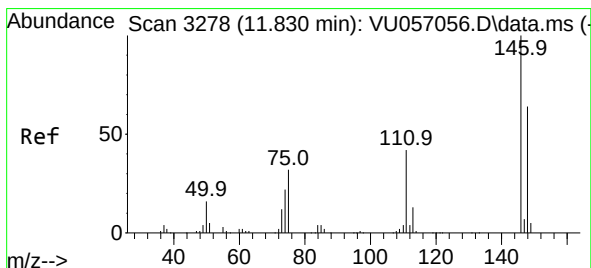
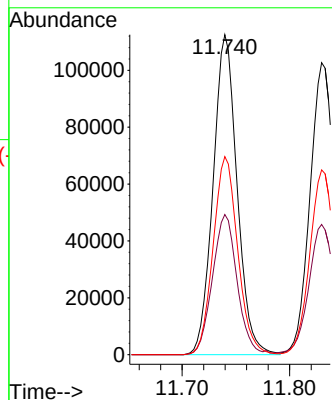
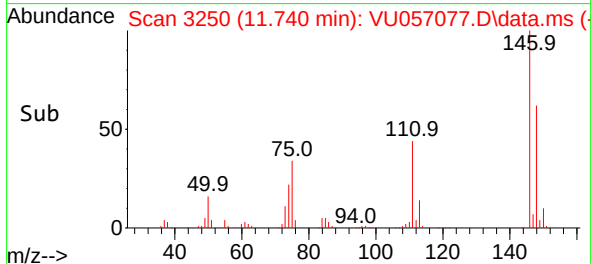


#64  
1,3-Dichlorobenzene  
Concen: 4.814 ug/L  
RT: 11.740 min Scan# 3250  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

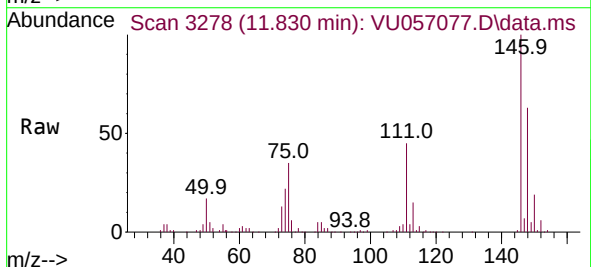
Instrument :  
MSVOA\_U  
ClientSampleId :



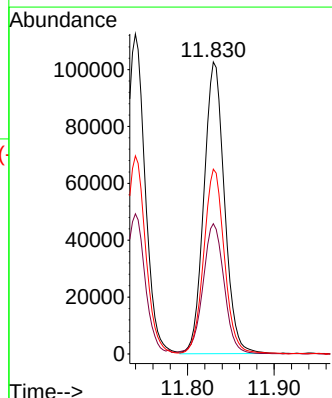
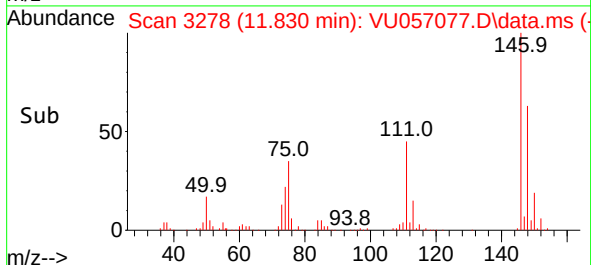
Tgt Ion:146 Resp: 174584  
Ion Ratio Lower Upper  
146 100  
111 43.8 31.7 58.9  
148 61.9 44.3 82.3

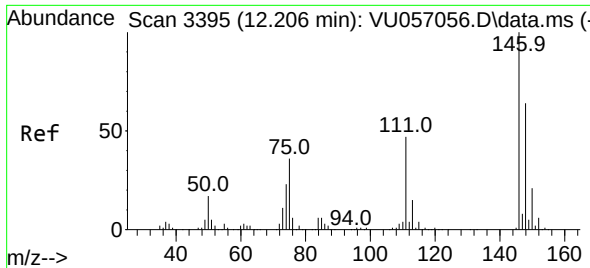


#65  
1,4-Dichlorobenzene  
Concen: 4.733 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52



Tgt Ion:146 Resp: 169027  
Ion Ratio Lower Upper  
146 100  
111 44.6 31.2 58.0  
148 63.3 45.6 84.8





#67

1,2-Dichlorobenzene

Concen: 4.749 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :

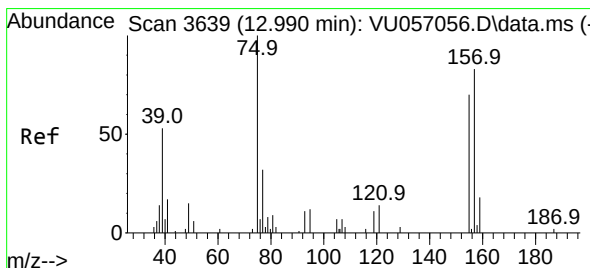
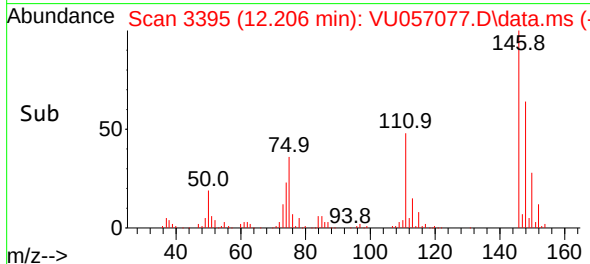
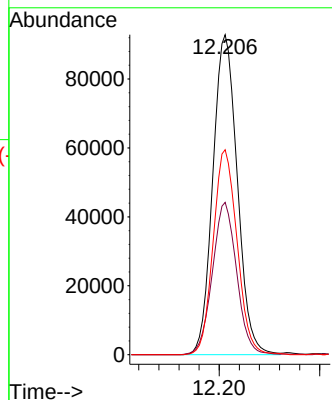
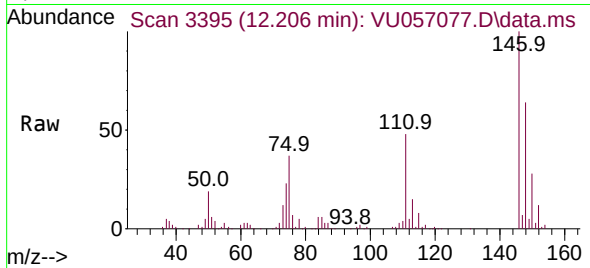
Tgt Ion:146 Resp: 156904

Ion Ratio Lower Upper

146 100

111 47.6 36.9 55.3

148 64.0 53.0 79.4



#68

1,2-Dibromo-3-chloropropane

Concen: 5.077 ug/L

RT: 12.990 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

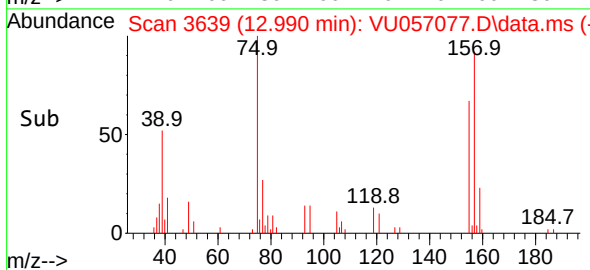
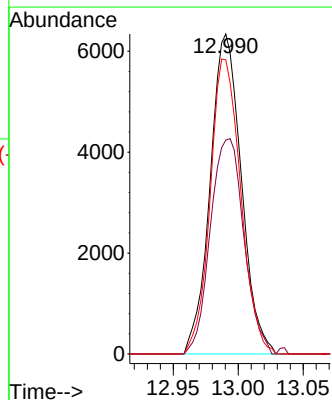
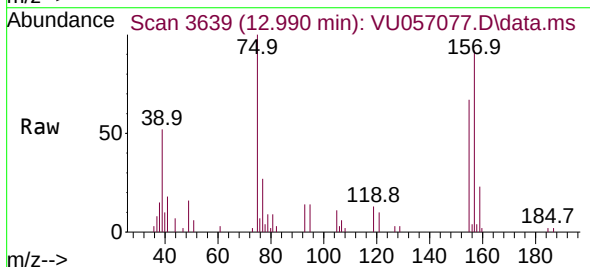
Tgt Ion: 75 Resp: 10561

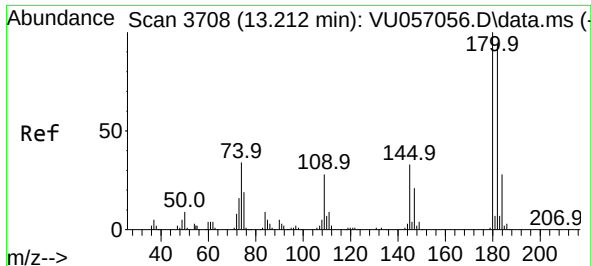
Ion Ratio Lower Upper

75 100

155 66.9 55.4 83.2

157 91.9 77.3 115.9





#69

1,3,5-Trichlorobenzene

Concen: 4.438 ug/L

RT: 13.212 min Scan# 31

Delta R.T. 0.000 min

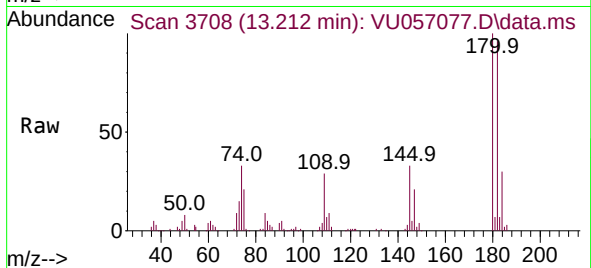
Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 121625

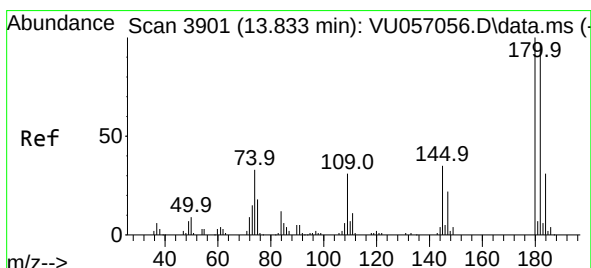
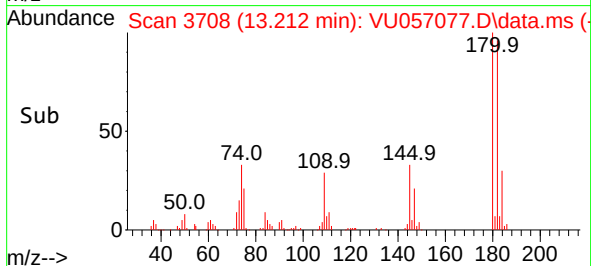
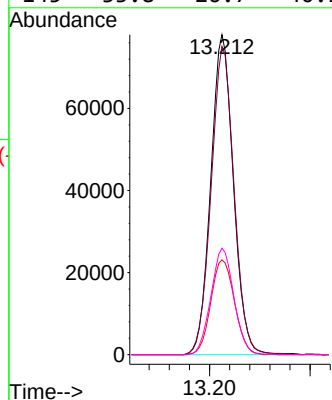
Ion Ratio Lower Upper

180 100

182 97.7 76.2 114.4

184 31.0 24.6 37.0

145 33.8 26.7 40.1



#70

1,2,4-trichlorobenzene

Concen: 4.173 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.000 min

Lab File: VU057077.D

Acq: 20 Dec 2023 04:52

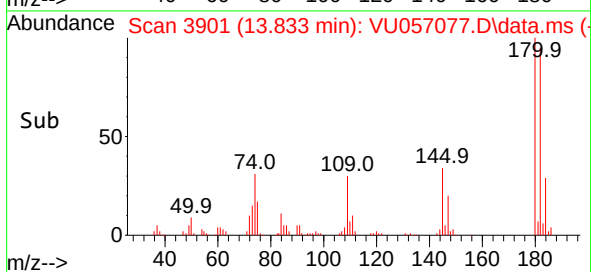
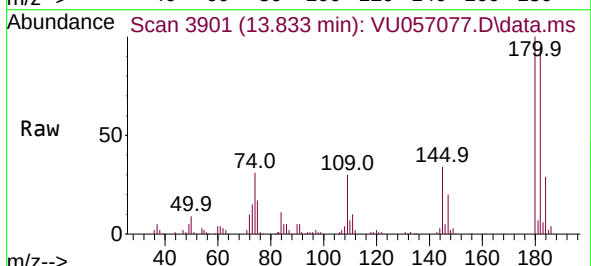
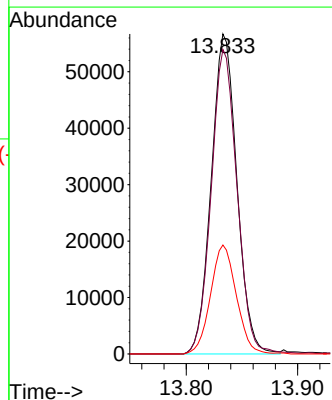
Tgt Ion:180 Resp: 90567

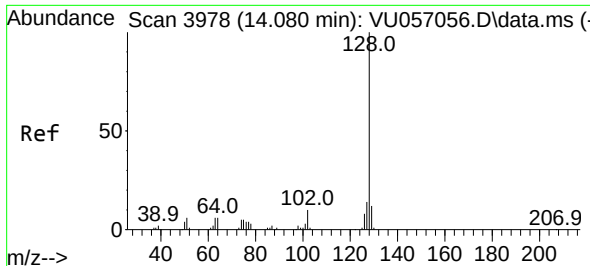
Ion Ratio Lower Upper

180 100

182 95.9 74.3 111.5

145 34.2 26.7 40.1

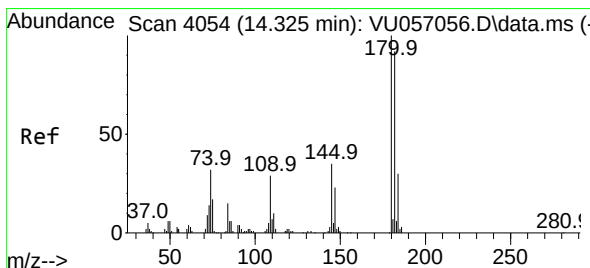
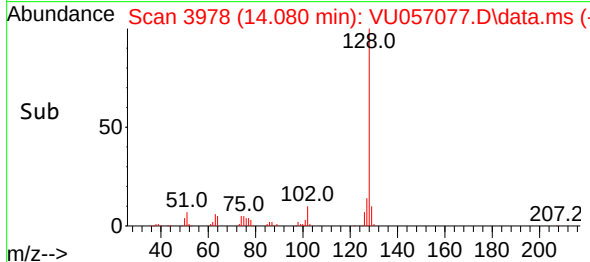
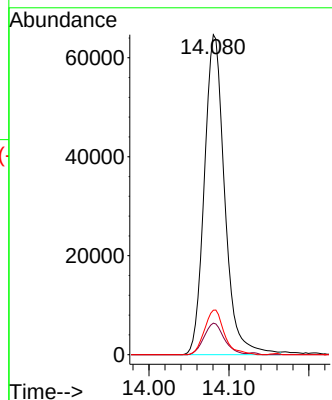
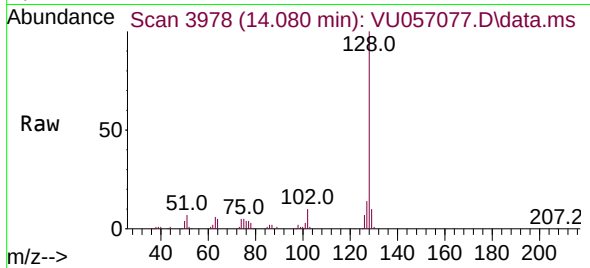




#71  
Naphthalene  
Concen: 3.604 ug/L  
RT: 14.080 min Scan# 3978  
Delta R.T. 0.000 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:128 Resp: 114445  
Ion Ratio Lower Upper  
128 100  
129 9.8 8.6 12.8  
127 13.6 10.2 15.2



#72  
1,2,3-Trichlorobenzene  
Concen: 4.030 ug/L  
RT: 14.322 min Scan# 4053  
Delta R.T. -0.003 min  
Lab File: VU057077.D  
Acq: 20 Dec 2023 04:52

Tgt Ion:180 Resp: 74240  
Ion Ratio Lower Upper  
180 100  
182 95.0 75.0 112.6  
145 34.6 28.6 42.8

