

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121123\  
 Data File : VU056750.D  
 Acq On : 11 Dec 2023 22:32  
 Operator : MD/SY  
 Sample : 05627-06MS  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 12 01:14:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Dec 12 01:07:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 254601   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 246648   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 121745   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 93925    | 4.304    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 86.000%  |
| 7) Chloroethane-d5            | 1.907  | 69    | 62330    | 3.817    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 76.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 40677    | 4.356    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 87.200%  |
| 20) 2-Butanone-d5             | 4.621  | 46    | 190672   | 44.241   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 88.480%  |
| 24) Chloroform-d              | 5.055  | 84    | 184035   | 4.453    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 85100    | 4.352    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.000%  |
| 32) Benzene-d6                | 5.721  | 84    | 343594   | 4.491    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 104529   | 4.365    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 87.400%  |
| 41) Toluene-d8                | 7.894  | 98    | 311574   | 4.557    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.200%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 34242    | 3.687    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 73.800%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 155976   | 44.535   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 89.080%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 79054    | 4.563    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 91.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 102639   | 4.289    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 85.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.380  | 85    | 64880    | 2.432    | ug/L   | 99       |
| 3) Chloromethane              | 1.515  | 50    | 73602    | 2.806    | ug/L   | 100      |
| 5) Vinyl chloride             | 1.602  | 62    | 74310    | 2.853    | ug/L   | 91       |
| 6) Bromomethane               | 1.853  | 94    | 40138    | 2.613    | ug/L   | 94       |
| 8) Chloroethane               | 1.930  | 64    | 47011    | 3.081    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 132268   | 3.603    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 82223    | 3.651    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 70110    | 3.392    | ug/L   | 96       |
| 13) Acetone                   | 2.631  | 43    | 150177   | 57.178   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.788  | 76    | 142365   | 1.985    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.952  | 43    | 15258    | 2.134    | ug/L   | 98       |
| 16) Methylene chloride        | 3.039  | 84    | 86792    | 3.854    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 220259   | 4.806    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 71850    | 3.428    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 169809   | 4.212    | ug/L   | 98       |
| 21) 2-Butanone                | 4.698  | 43    | 208466   | 47.066   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 90549    | 3.971    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.972  | 128   | 38191    | 4.001    | ug/L   | 98       |
| 25) Chloroform                | 5.081  | 83    | 326630   | 7.734    | ug/L   | 99       |

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 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 12 01:14:18 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Dec 12 01:07:35 2023  
 Response via : Initial Calibration

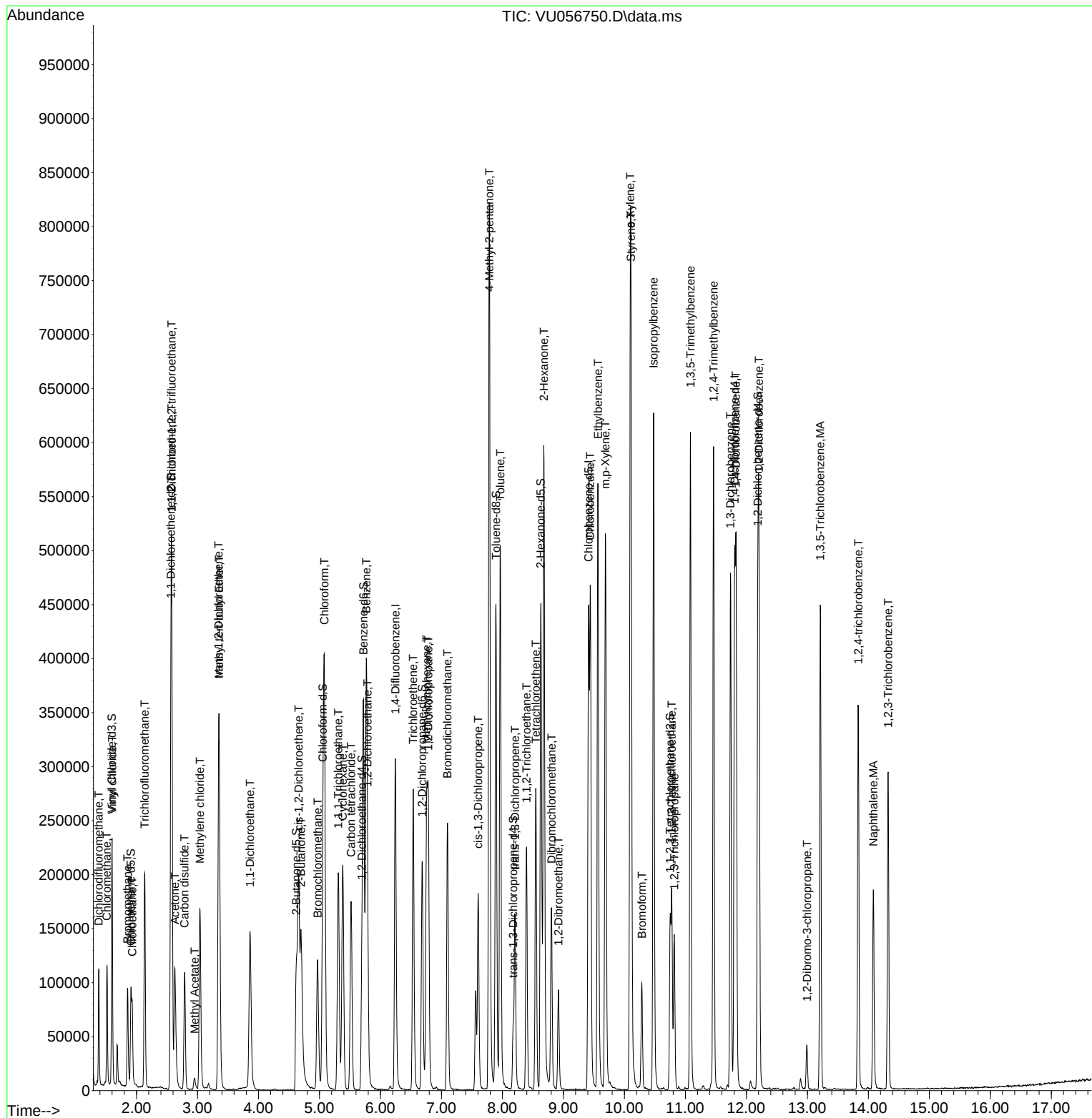
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 102030   | 4.085  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97   | 148675   | 4.170  | ug/L  | 99       |
| 30) Cyclohexane               | 5.383  | 56   | 101173   | 3.024  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 123898   | 3.998  | ug/L  | 100      |
| 33) Benzene                   | 5.769  | 78   | 350655   | 4.045  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 100770   | 4.238  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.759  | 83   | 97386    | 2.775  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 99926    | 4.506  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.100  | 83   | 166282   | 5.880  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 114403   | 3.540  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.785  | 43   | 525714   | 49.930 | ug/L  | 99       |
| 42) Toluene                   | 7.965  | 91   | 373484   | 4.164  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 98518    | 3.719  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 68900    | 4.596  | ug/L  | 95       |
| 47) Tetrachloroethene         | 8.547  | 164  | 59576    | 3.580  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.679  | 43   | 374464   | 49.935 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.804  | 129  | 86021    | 4.992  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 62991    | 4.528  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.441  | 112  | 246647   | 4.315  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.566  | 91   | 409818   | 4.142  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.688  | 106  | 151680   | 4.115  | ug/L  | 96       |
| 54) o-Xylene                  | 10.097 | 106  | 152118   | 4.332  | ug/L  | 99       |
| 55) Styrene                   | 10.110 | 104  | 258893   | 4.490  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 88149    | 4.867  | ug/L  | 97       |
| 59) Bromoform                 | 10.287 | 173  | 44001    | 4.426  | ug/L  | 97       |
| 60) Isopropylbenzene          | 10.479 | 105  | 409058   | 4.253  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 62275    | 4.764  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 322912   | 4.108  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 331756   | 4.249  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 192942   | 4.240  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 187312   | 4.181  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 180063   | 4.344  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 12316    | 4.719  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 135779   | 3.949  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 106057   | 3.895  | ug/L  | 99       |
| 71) Naphthalene               | 14.084 | 128  | 151348   | 3.799  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 88216    | 3.817  | ug/L  | 97       |

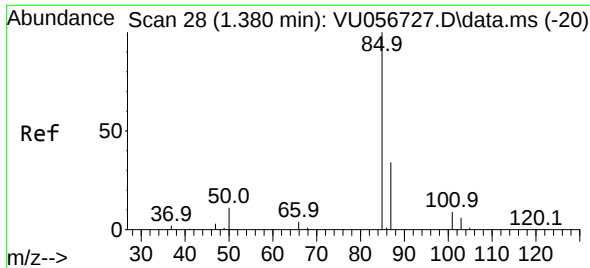
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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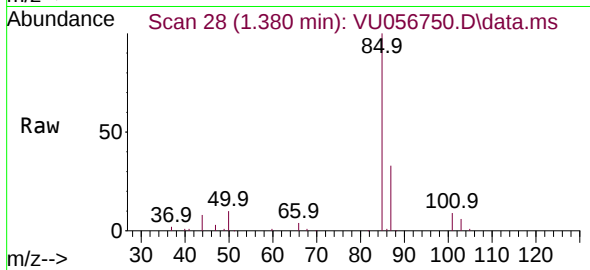
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
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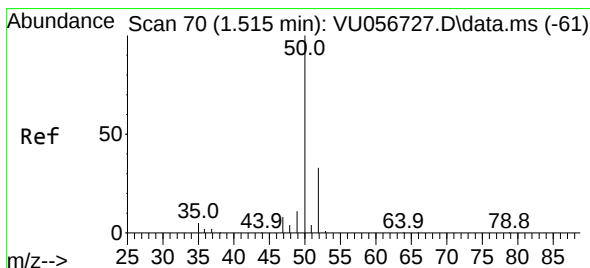
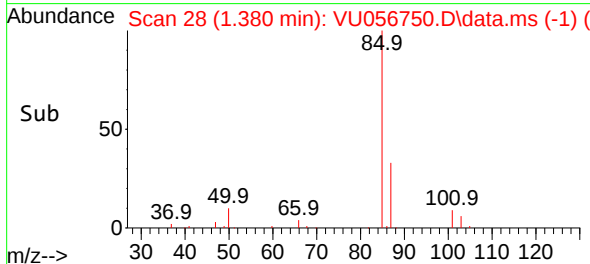
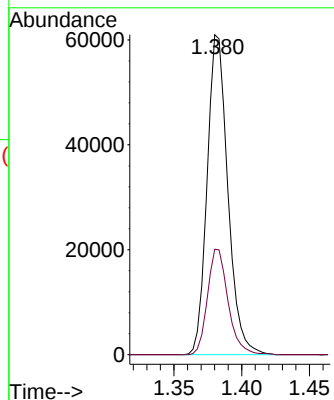


#2  
 Dichlorodifluoromethane  
 Concen: 2.432 ug/L  
 RT: 1.380 min Scan# 28  
 Delta R.T. -0.000 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

Instrument :  
 MSVOA\_U  
 ClientSampleId :

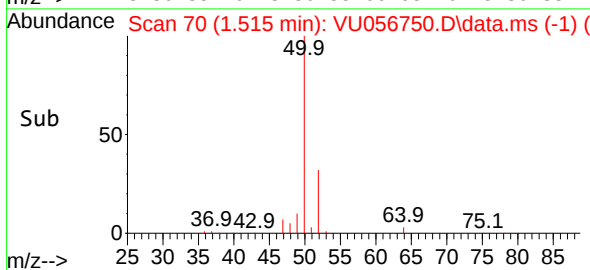
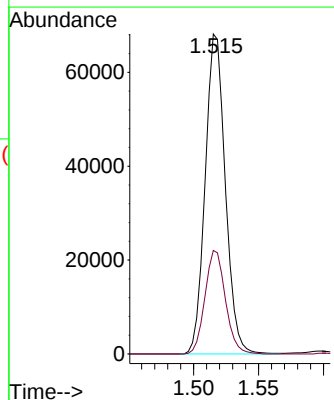
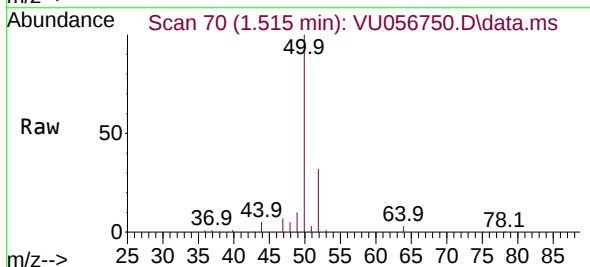


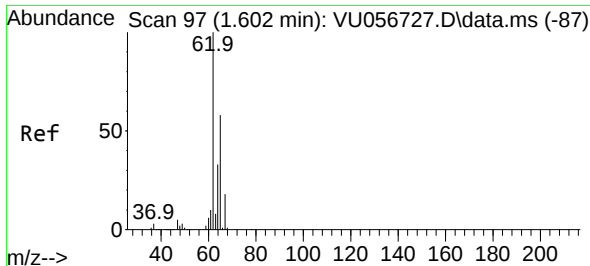
Tgt Ion: 85 Resp: 64880  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 26.8 40.2



#3  
 Chloromethane  
 Concen: 2.806 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. -0.000 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

Tgt Ion: 50 Resp: 73602  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 22.5 41.7

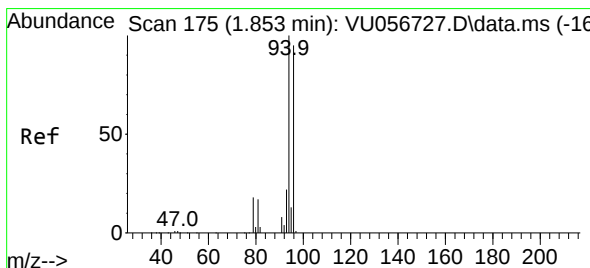
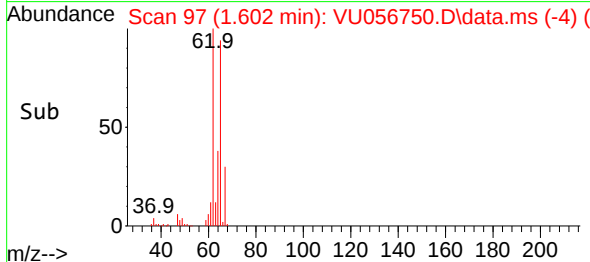
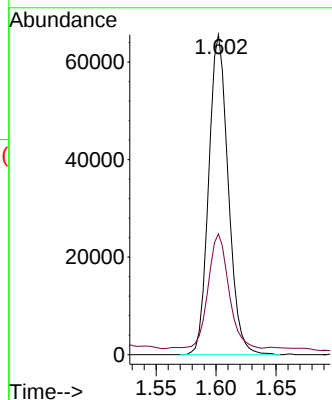
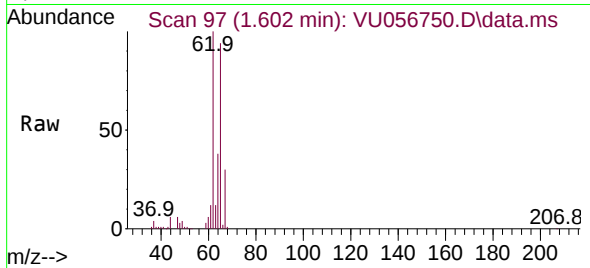




#5  
 Vinyl chloride  
 Concen: 2.853 ug/L  
 RT: 1.602 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

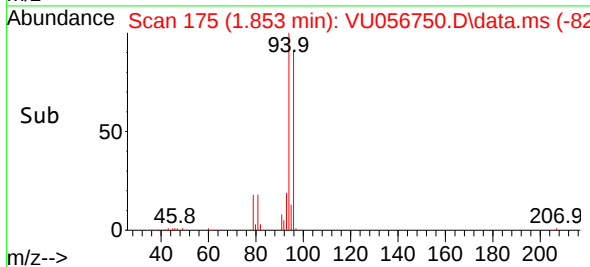
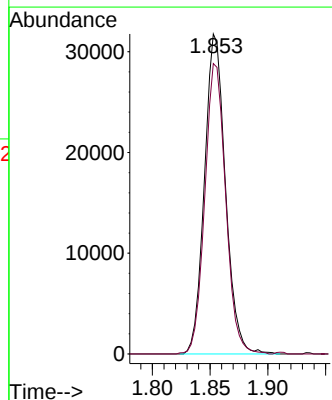
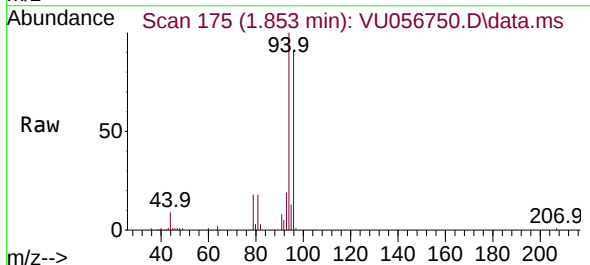
Instrument :  
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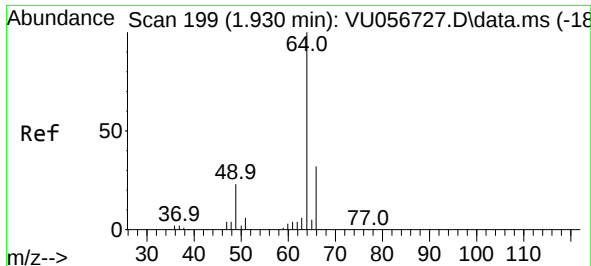
Tgt Ion: 62 Resp: 74310  
 Ion Ratio Lower Upper  
 62 100  
 64 37.7 22.8 42.4



#6  
 Bromomethane  
 Concen: 2.613 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. -0.000 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

Tgt Ion: 94 Resp: 40138  
 Ion Ratio Lower Upper  
 94 100  
 96 90.7 67.8 125.8

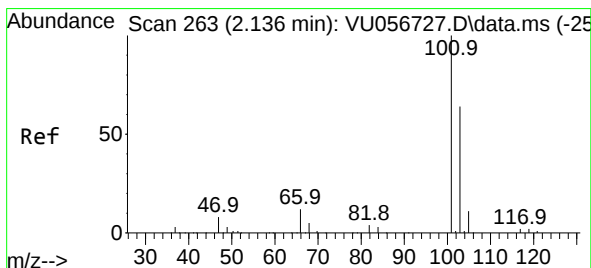
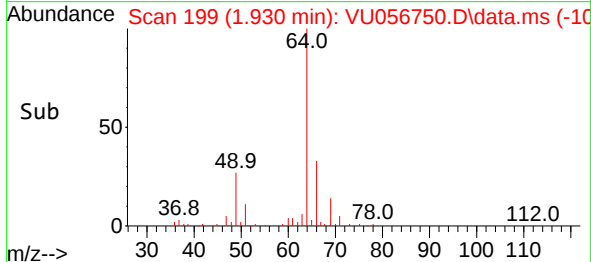
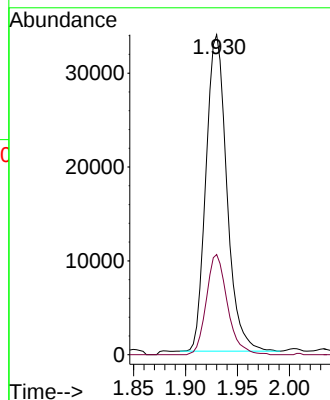
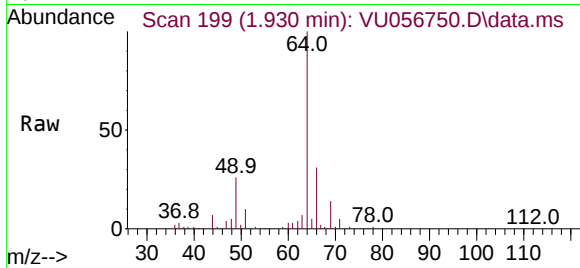




#8  
Chloroethane  
Concen: 3.081 ug/L  
RT: 1.930 min Scan# 199  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

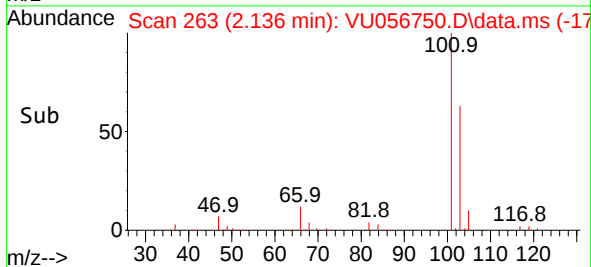
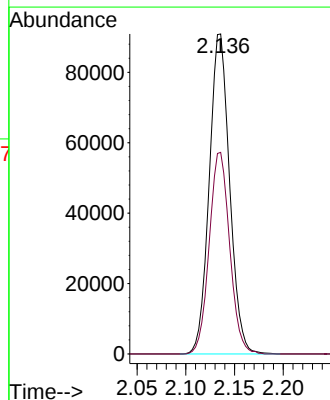
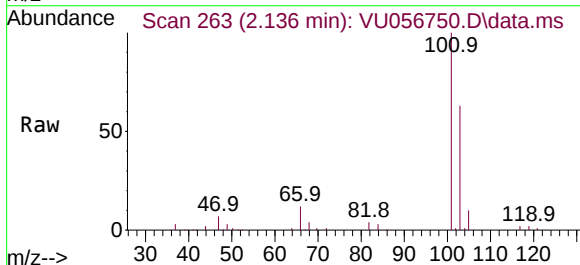
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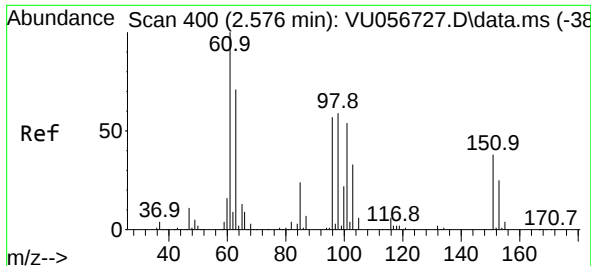
Tgt Ion: 64 Resp: 47011  
Ion Ratio Lower Upper  
64 100  
66 31.3 21.4 39.8



#9  
Trichlorofluoromethane  
Concen: 3.603 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Tgt Ion:101 Resp: 132268  
Ion Ratio Lower Upper  
101 100  
103 63.2 51.4 77.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.651 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

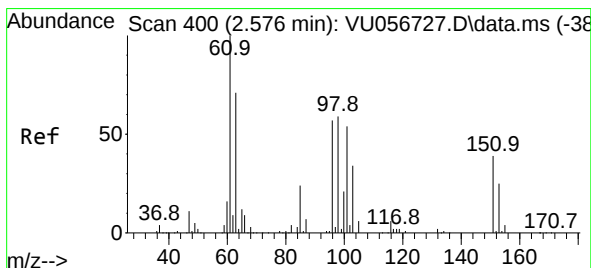
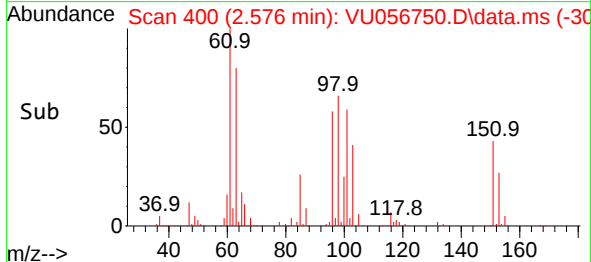
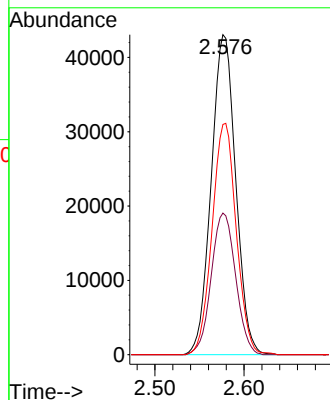
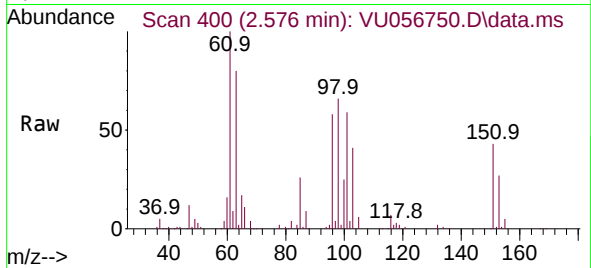
Tgt Ion:101 Resp: 82223

Ion Ratio Lower Upper

101 100

85 44.1 35.2 52.8

151 71.4 56.0 84.0



#12

1,1-Dichloroethene

Concen: 3.392 ug/L

RT: 2.576 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

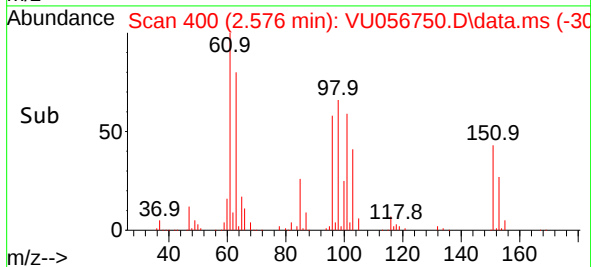
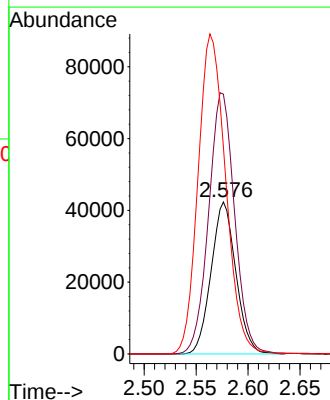
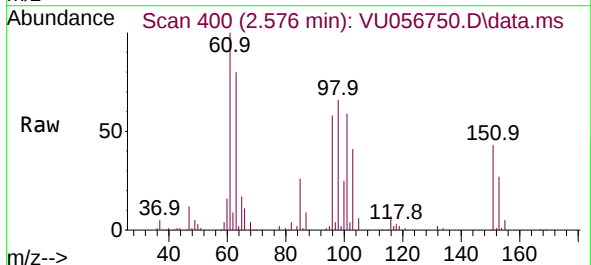
Tgt Ion: 96 Resp: 70110

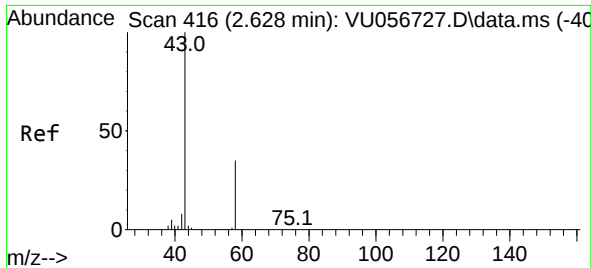
Ion Ratio Lower Upper

96 100

61 170.9 119.0 221.0

63 136.3 88.7 164.7





#13

Acetone

Concen: 57.178 ug/L

RT: 2.631 min Scan# 416

Delta R.T. 0.003 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

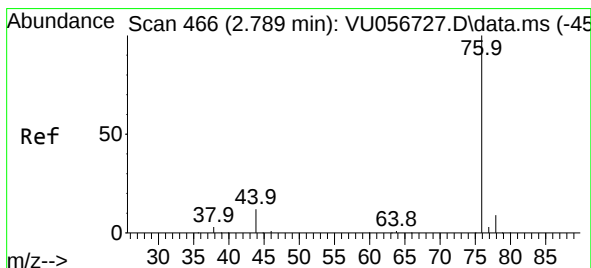
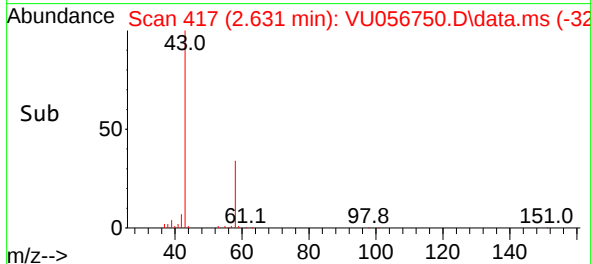
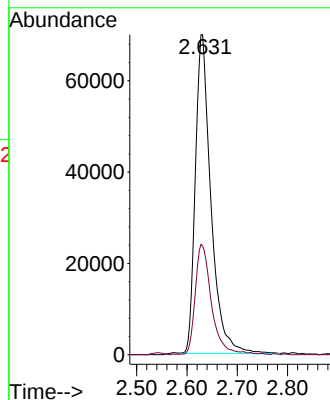
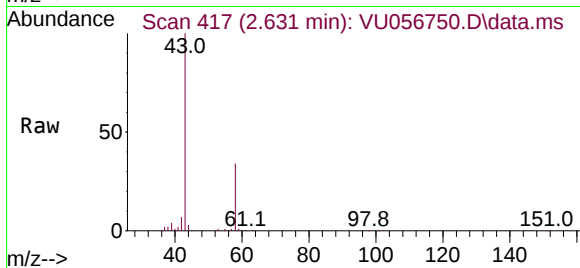
ClientSampleId :

Tgt Ion: 43 Resp: 150177

Ion Ratio Lower Upper

43 100

58 35.0 0.0 72.6



#14

Carbon disulfide

Concen: 1.985 ug/L

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU056750.D

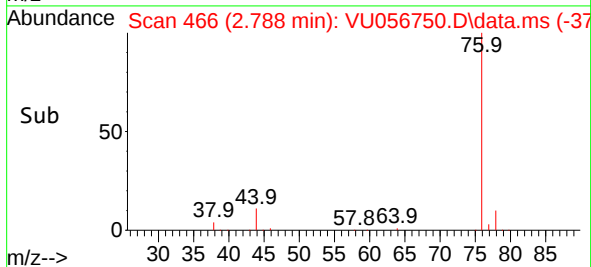
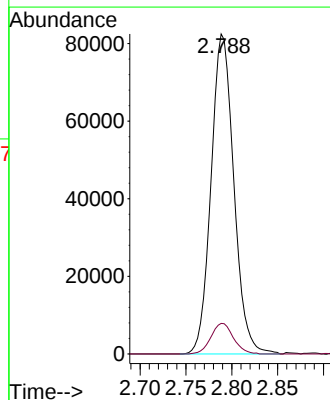
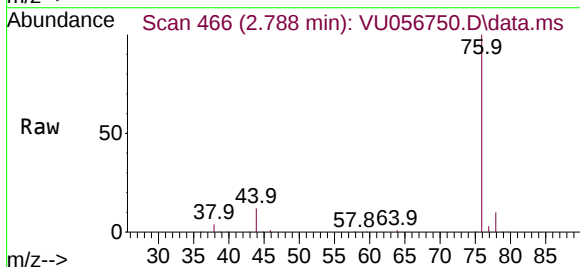
Acq: 11 Dec 2023 22:32

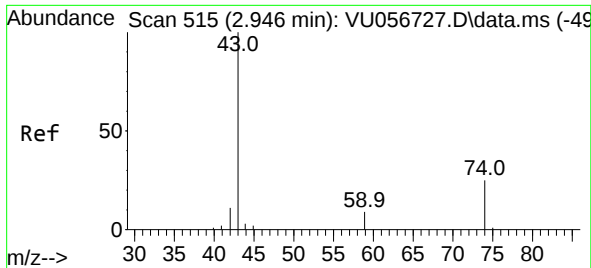
Tgt Ion: 76 Resp: 142365

Ion Ratio Lower Upper

76 100

78 9.6 7.3 10.9

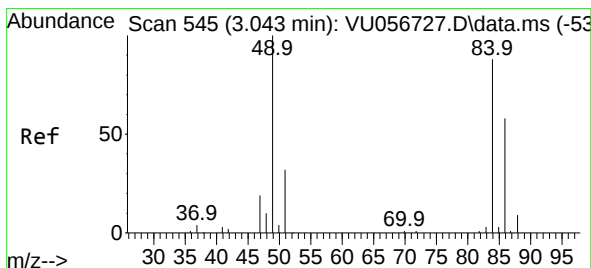
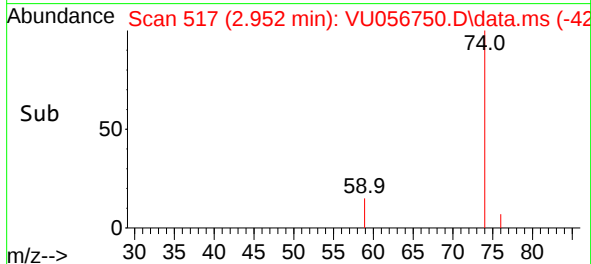
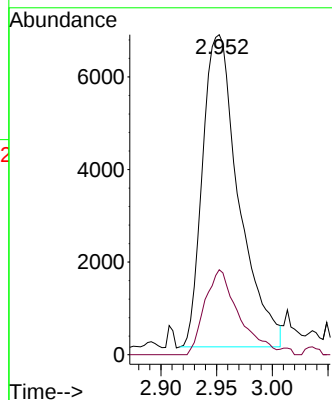
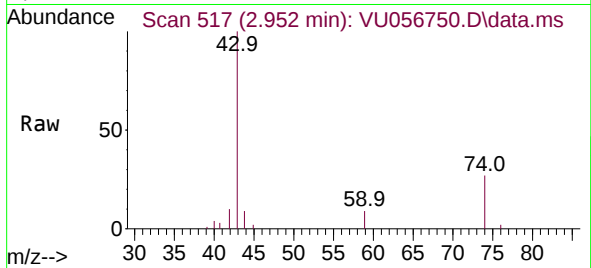




#15  
Methyl Acetate  
Concen: 2.134 ug/L  
RT: 2.952 min Scan# 515  
Delta R.T. 0.006 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

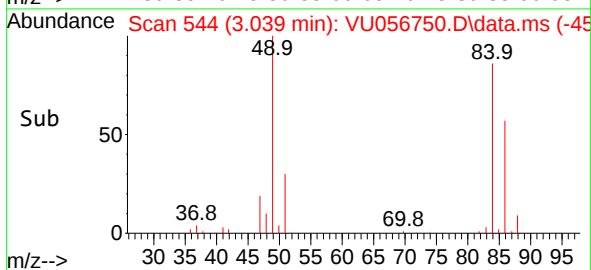
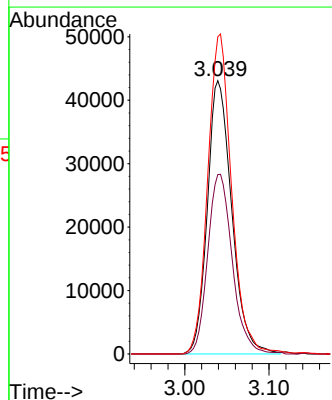
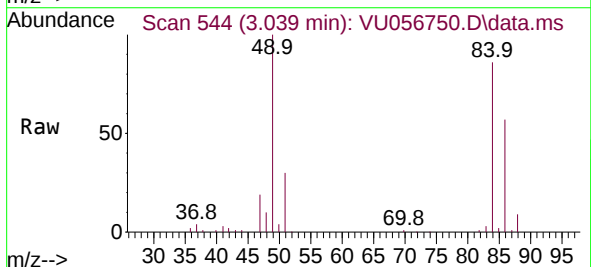
Instrument :  
MSVOA\_U  
ClientSampleId :

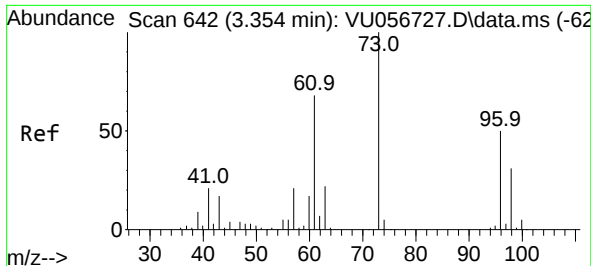
Tgt Ion: 43 Resp: 15258  
Ion Ratio Lower Upper  
43 100  
74 25.5 21.0 31.6



#16  
Methylene chloride  
Concen: 3.854 ug/L  
RT: 3.039 min Scan# 544  
Delta R.T. -0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Tgt Ion: 84 Resp: 86792  
Ion Ratio Lower Upper  
84 100  
86 65.6 43.6 81.0  
49 116.0 80.6 149.6

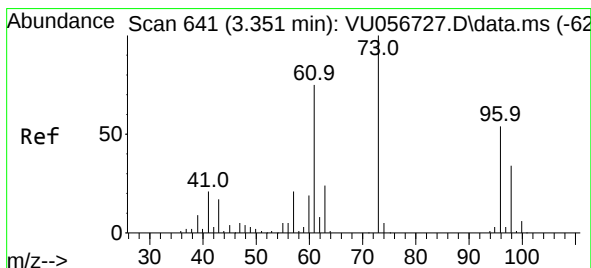
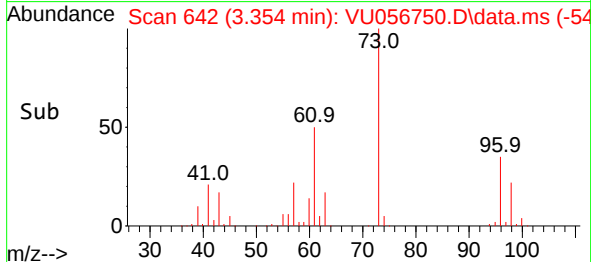
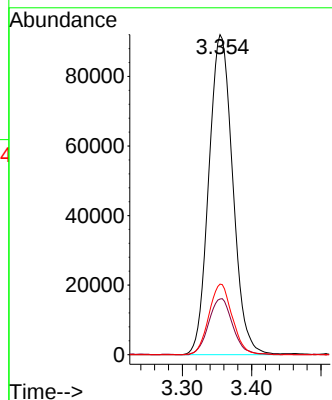
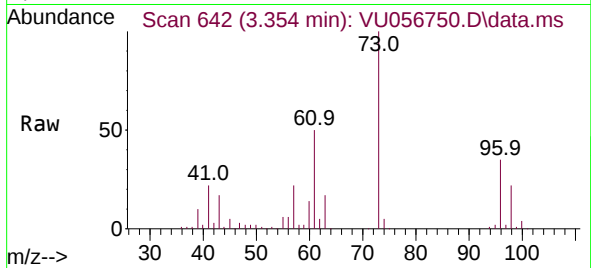




#17  
Methyl tert-butyl Ether  
Concen: 4.806 ug/L  
RT: 3.354 min Scan# 642  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

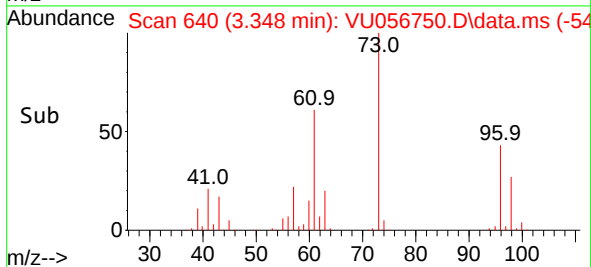
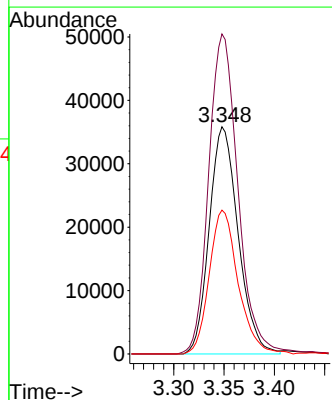
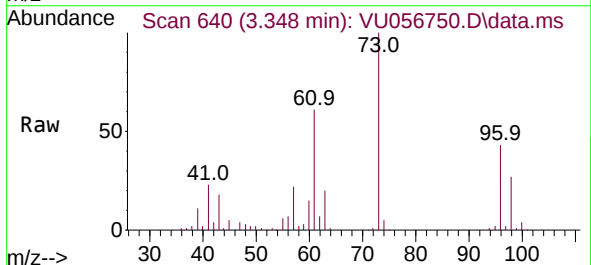
Instrument :  
MSVOA\_U  
ClientSampleId :

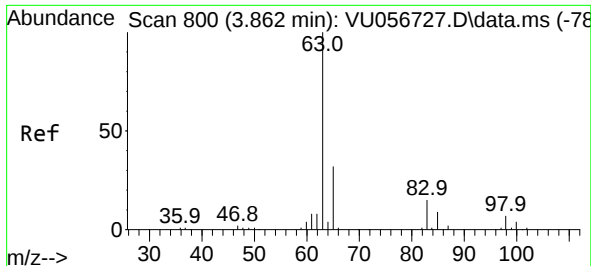
Tgt Ion: 73 Resp: 220259  
Ion Ratio Lower Upper  
73 100  
43 17.7 14.4 21.6  
57 21.5 17.8 26.8



#18  
trans-1,2-Dichloroethene  
Concen: 3.428 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. -0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Tgt Ion: 96 Resp: 71850  
Ion Ratio Lower Upper  
96 100  
61 140.9 101.8 189.0  
98 63.3 43.0 79.8





#19

1,1-Dichloroethane

Concen: 4.212 ug/L

RT: 3.862 min Scan# 80

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

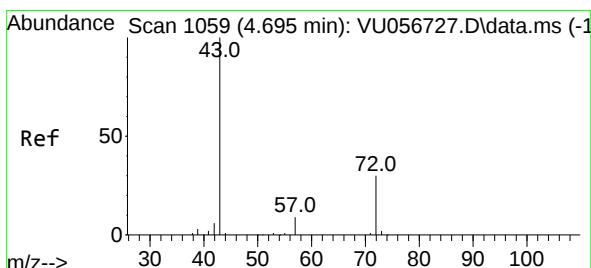
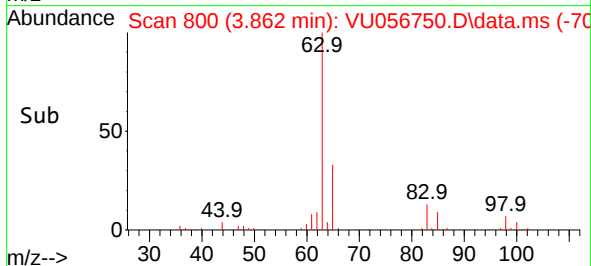
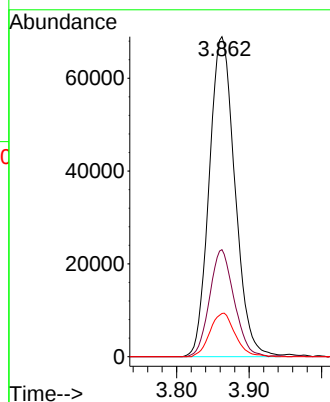
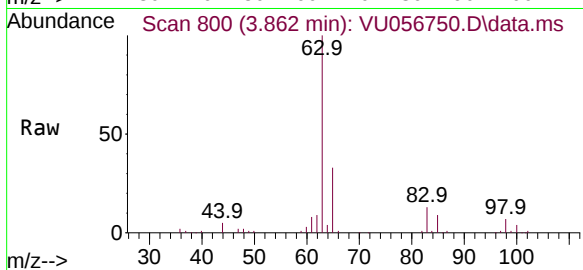
Tgt Ion: 63 Resp: 169809

Ion Ratio Lower Upper

63 100

65 33.4 22.9 42.5

83 13.5 10.1 18.9



#21

2-Butanone

Concen: 47.066 ug/L

RT: 4.698 min Scan# 1060

Delta R.T. 0.003 min

Lab File: VU056750.D

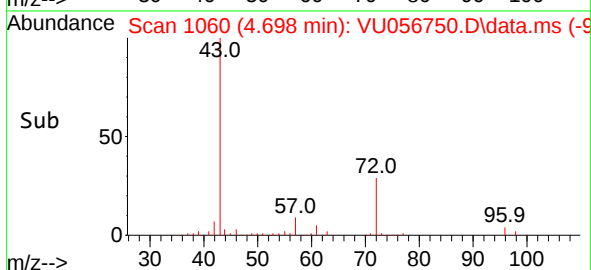
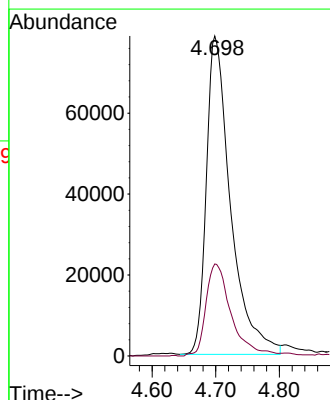
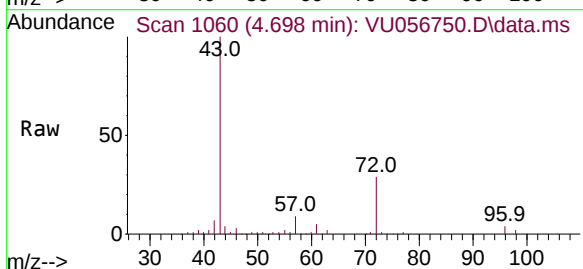
Acq: 11 Dec 2023 22:32

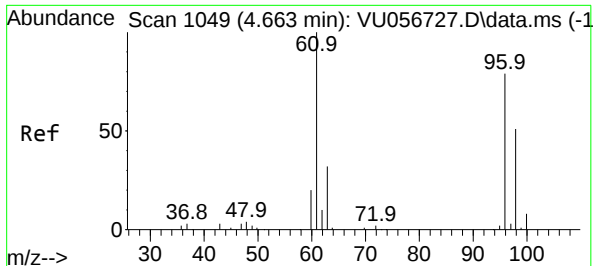
Tgt Ion: 43 Resp: 208466

Ion Ratio Lower Upper

43 100

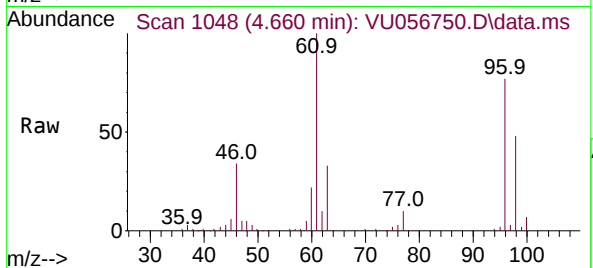
72 30.0 14.6 43.8



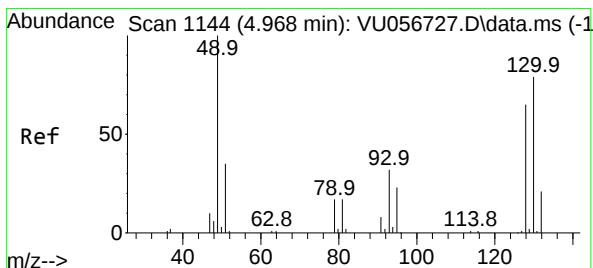
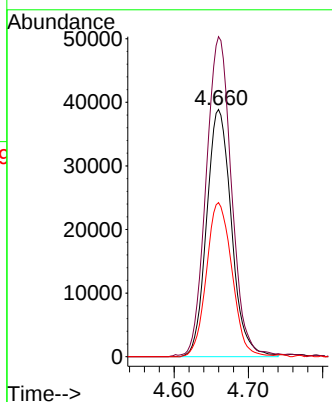
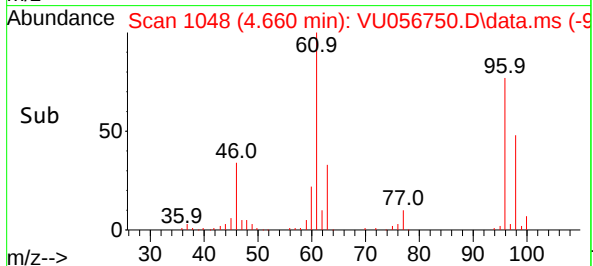


#22  
 cis-1,2-Dichloroethene  
 Concen: 3.971 ug/L  
 RT: 4.660 min Scan# 1048  
 Delta R.T. -0.003 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

Instrument :  
 MSVOA\_U  
 ClientSampleId :

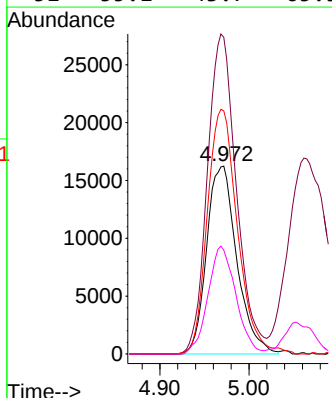
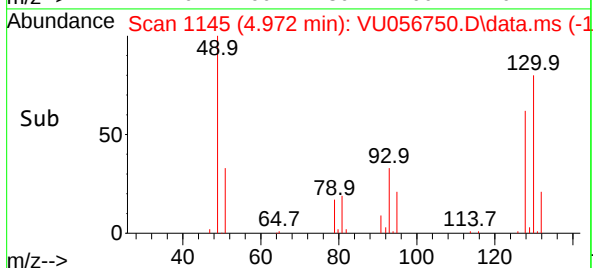
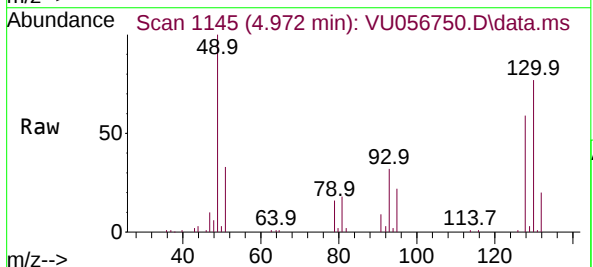


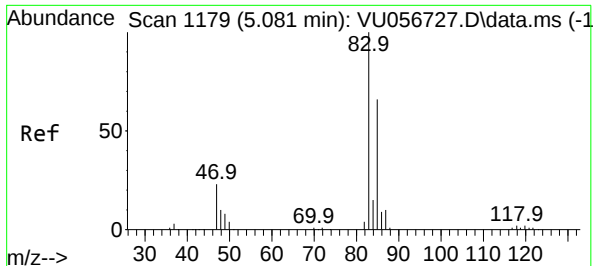
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 90549 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 129.4 | 91.3  | 169.6 |
| 98       | 62.3  | 44.2  | 82.0  |



#23  
 Bromochloromethane  
 Concen: 4.001 ug/L  
 RT: 4.972 min Scan# 1145  
 Delta R.T. 0.003 min  
 Lab File: VU056750.D  
 Acq: 11 Dec 2023 22:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 38191 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 168.5 | 113.8 | 211.3 |
| 130      | 129.3 | 90.6  | 168.3 |
| 51       | 55.1  | 43.7  | 65.5  |





#25

Chloroform

Concen: 7.734 ug/L

RT: 5.081 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

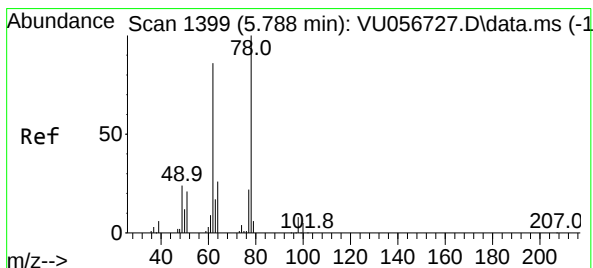
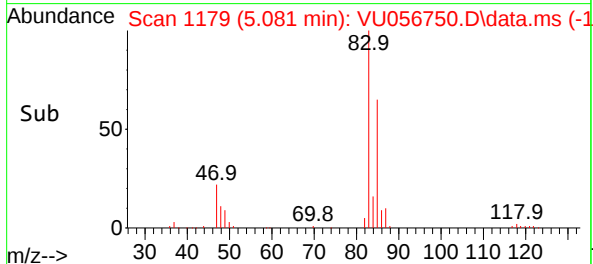
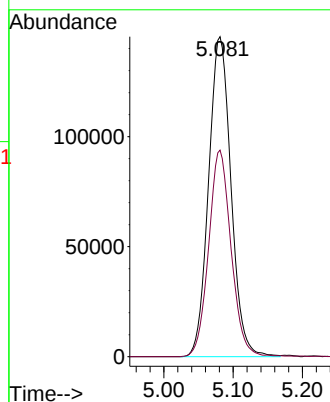
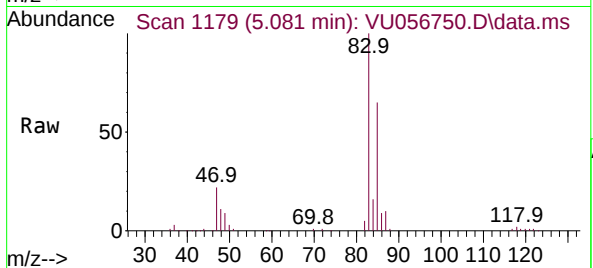
ClientSampleId :

Tgt Ion: 83 Resp: 326630

Ion Ratio Lower Upper

83 100

85 64.5 45.8 85.0



#27

1,2-Dichloroethane

Concen: 4.085 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. -0.000 min

Lab File: VU056750.D

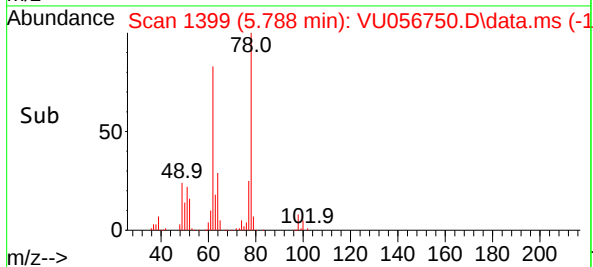
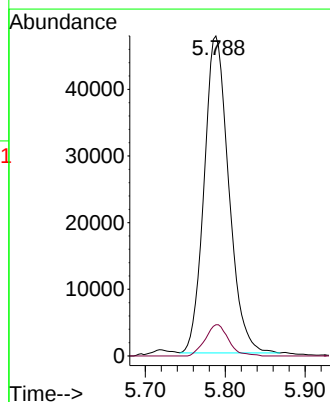
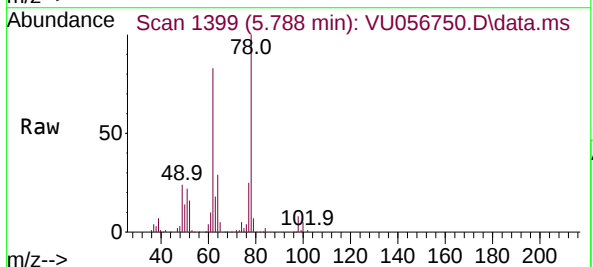
Acq: 11 Dec 2023 22:32

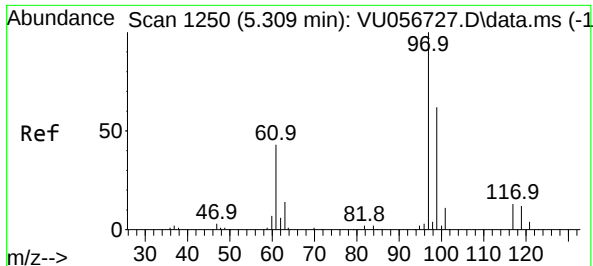
Tgt Ion: 62 Resp: 102030

Ion Ratio Lower Upper

62 100

98 9.7 7.8 11.6





#29

1,1,1-Trichloroethane

Concen: 4.170 ug/L

RT: 5.309 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

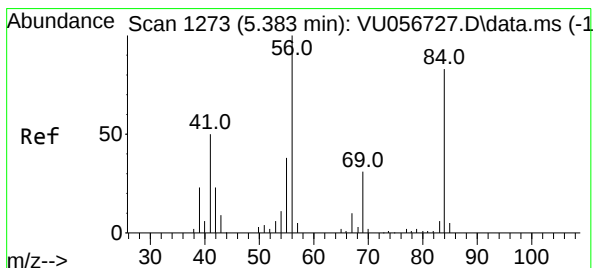
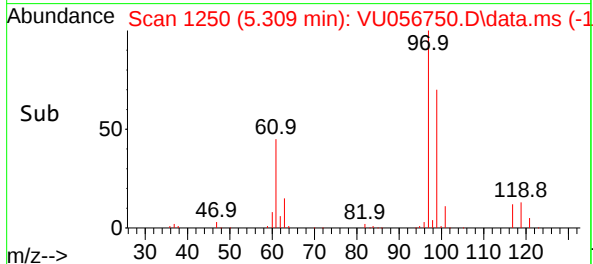
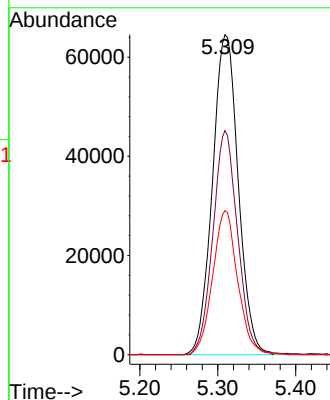
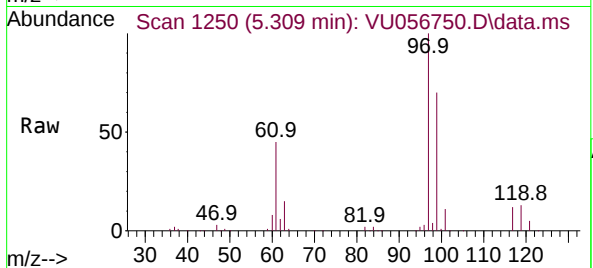
Tgt Ion: 97 Resp: 148675

Ion Ratio Lower Upper

97 100

99 66.7 52.5 78.7

61 43.6 34.2 51.2



#30

Cyclohexane

Concen: 3.024 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

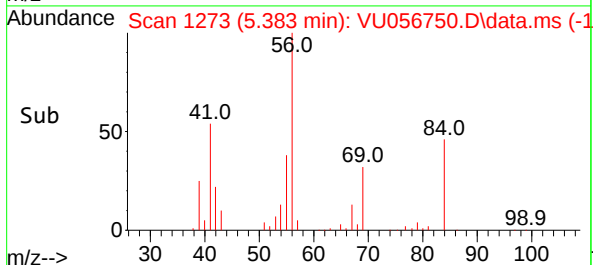
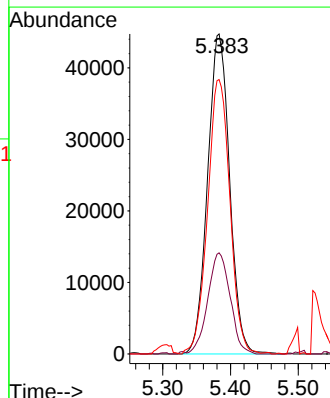
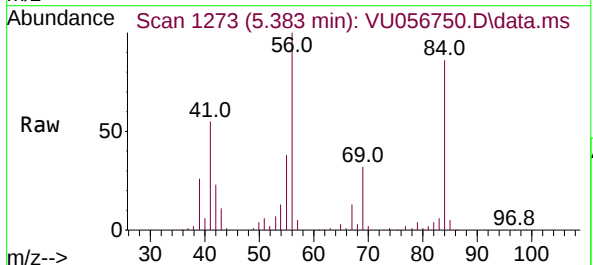
Tgt Ion: 56 Resp: 101173

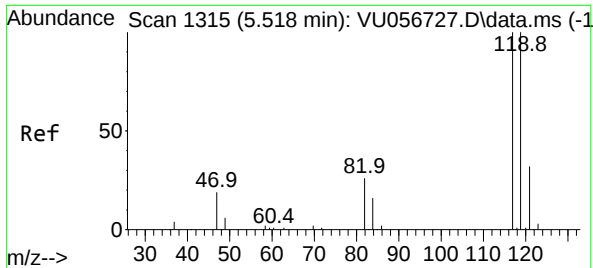
Ion Ratio Lower Upper

56 100

69 32.1 24.9 37.3

84 86.8 67.6 101.4

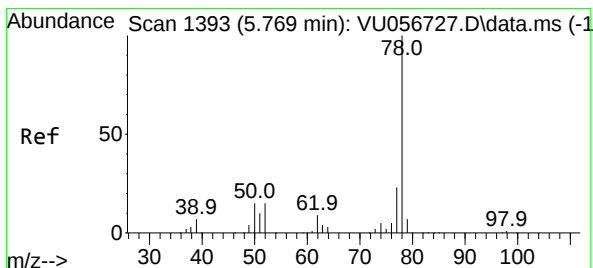
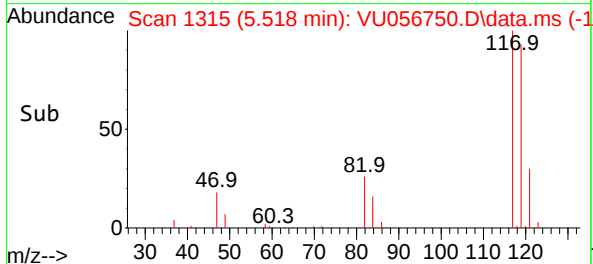
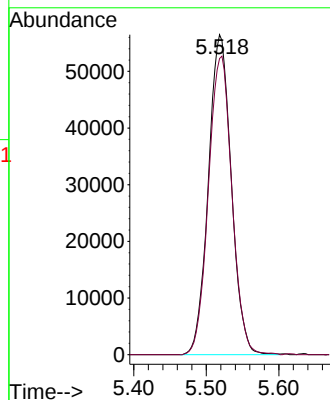
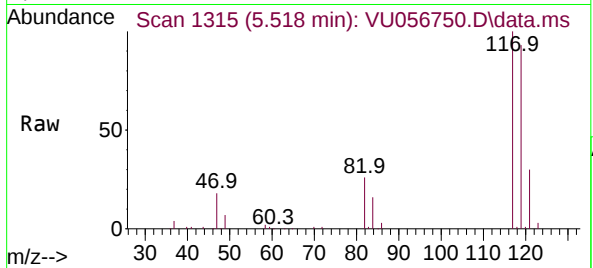




#31  
Carbon tetrachloride  
Concen: 3.998 ug/L  
RT: 5.518 min Scan# 1315  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

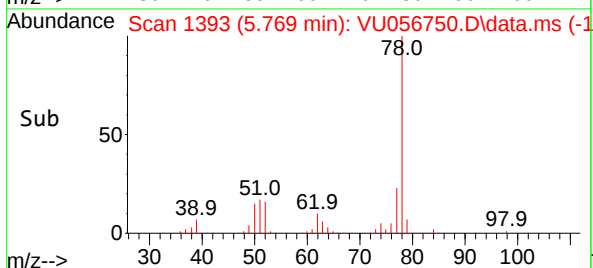
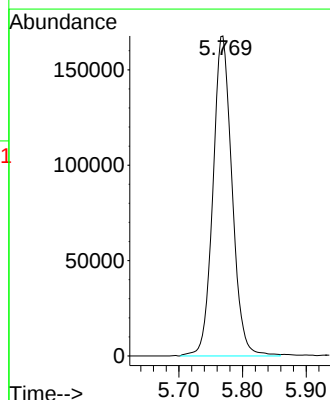
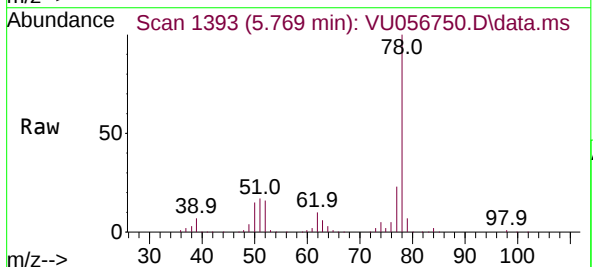
Instrument :  
MSVOA\_U  
ClientSampleId :

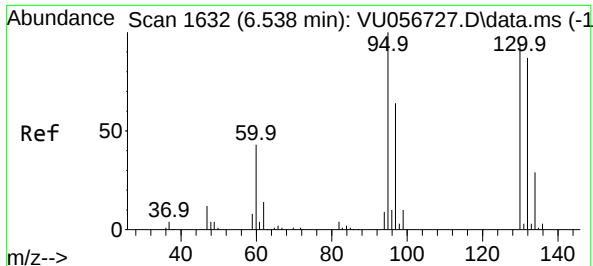
Tgt Ion:117 Resp: 123898  
Ion Ratio Lower Upper  
117 100  
119 95.8 76.2 114.4



#33  
Benzene  
Concen: 4.045 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

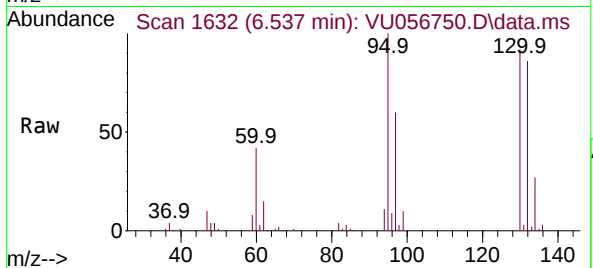
Tgt Ion: 78 Resp: 350655



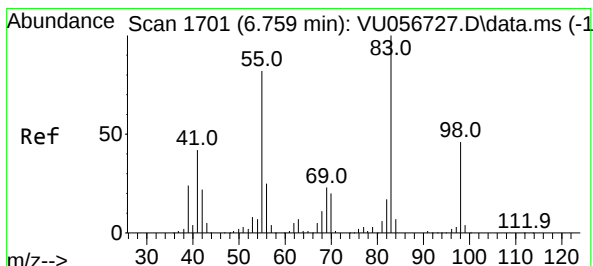
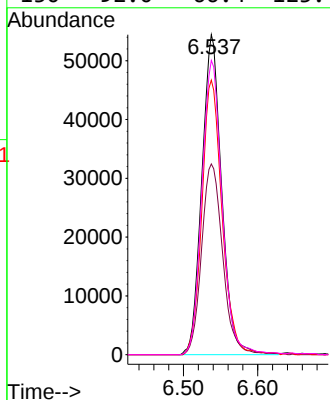
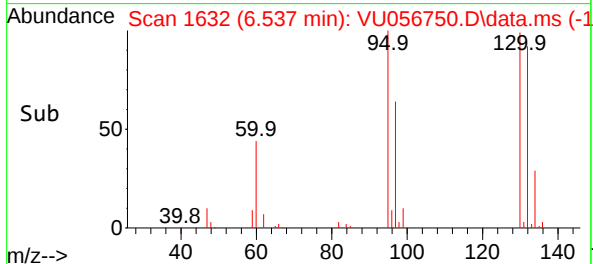


#34  
Trichloroethene  
Concen: 4.238 ug/L  
RT: 6.537 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

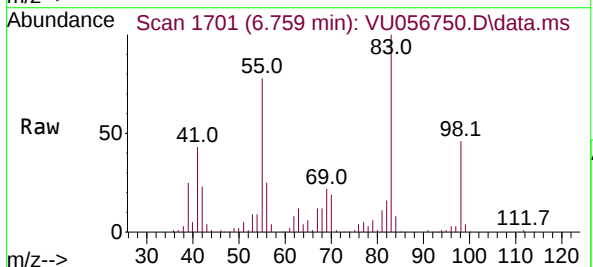
Instrument :  
MSVOA\_U  
ClientSampleId :



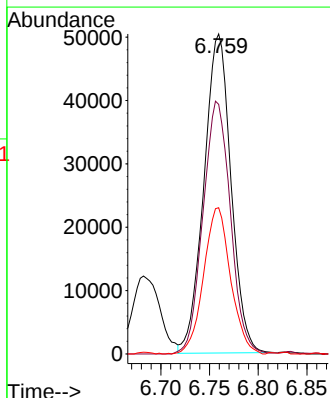
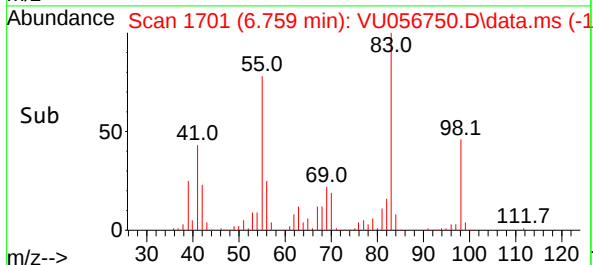
Tgt Ion: 95 Resp: 100770  
Ion Ratio Lower Upper  
95 100  
97 59.6 46.1 85.5  
132 85.8 63.6 118.0  
130 92.0 66.4 123.4

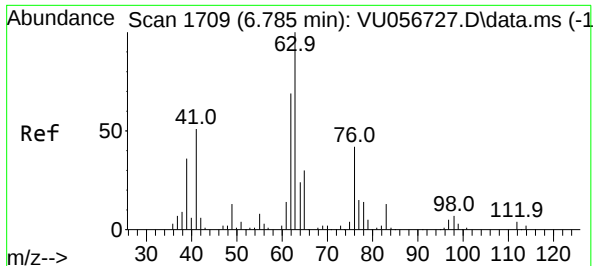


#35  
Methylcyclohexane  
Concen: 2.775 ug/L  
RT: 6.759 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32



Tgt Ion: 83 Resp: 97386  
Ion Ratio Lower Upper  
83 100  
55 80.4 64.6 97.0  
98 45.6 36.1 54.1





#37

1,2-Dichloropropane

Concen: 4.506 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

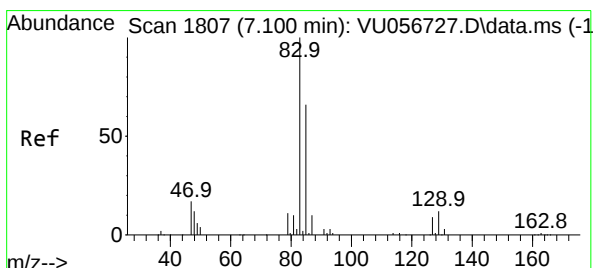
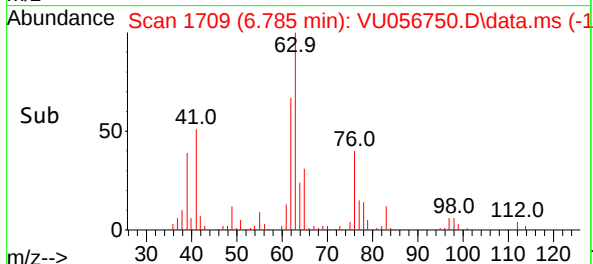
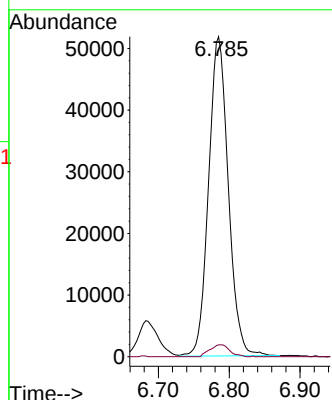
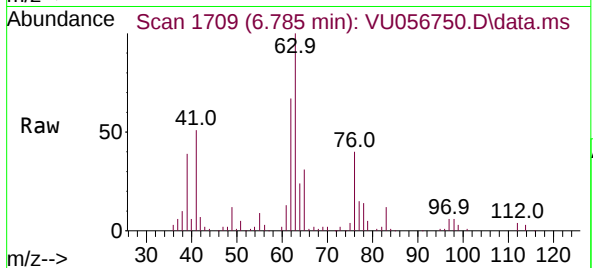
ClientSampleId :

Tgt Ion: 63 Resp: 99926

Ion Ratio Lower Upper

63 100

112 3.7 3.3 4.9



#38

Bromodichloromethane

Concen: 5.880 ug/L

RT: 7.100 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

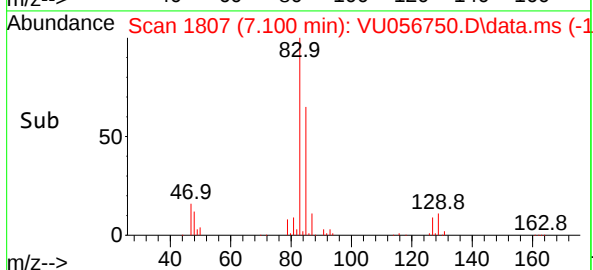
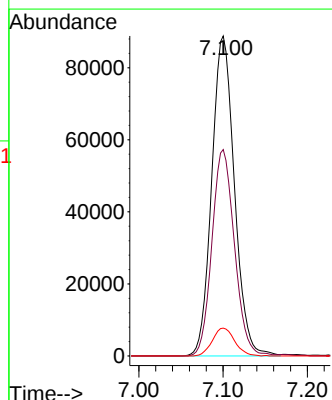
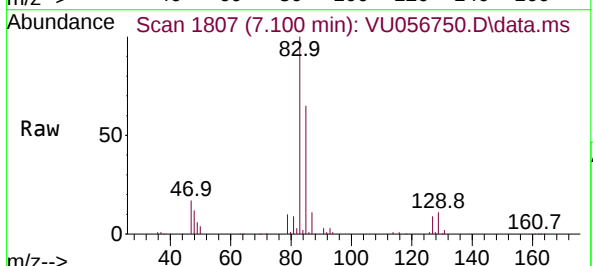
Tgt Ion: 83 Resp: 166282

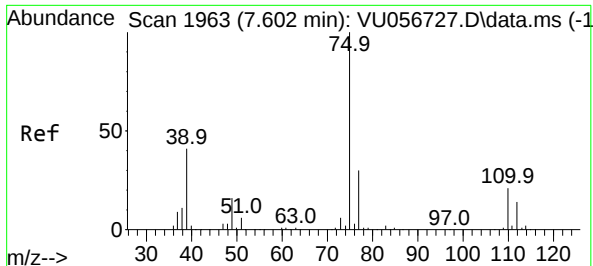
Ion Ratio Lower Upper

83 100

85 64.5 45.0 83.6

127 8.7 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 3.540 ug/L

RT: 7.602 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

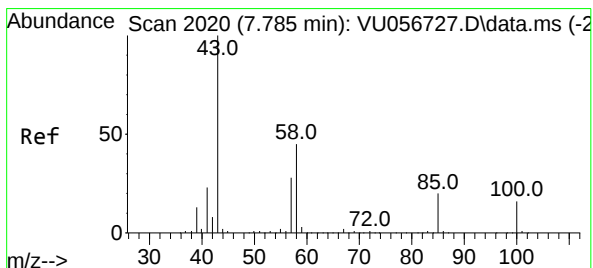
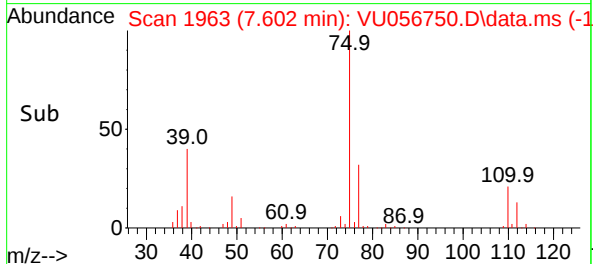
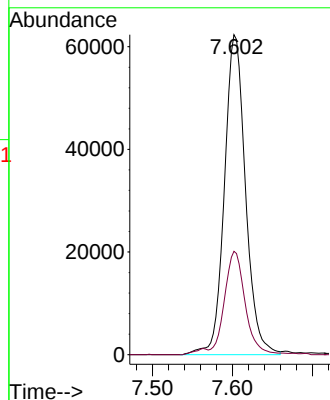
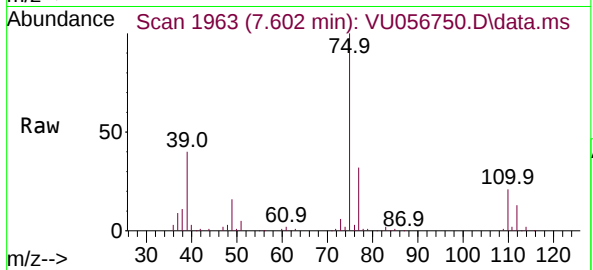
ClientSampleId :

Tgt Ion: 75 Resp: 114403

Ion Ratio Lower Upper

75 100

77 32.3 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 49.930 ug/L

RT: 7.785 min Scan# 2020

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

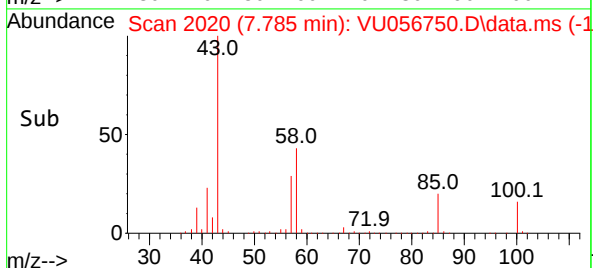
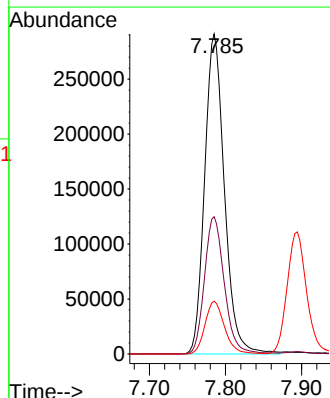
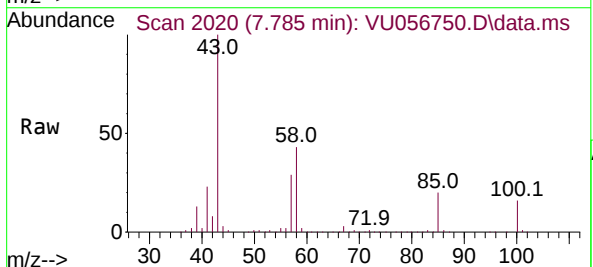
Tgt Ion: 43 Resp: 525714

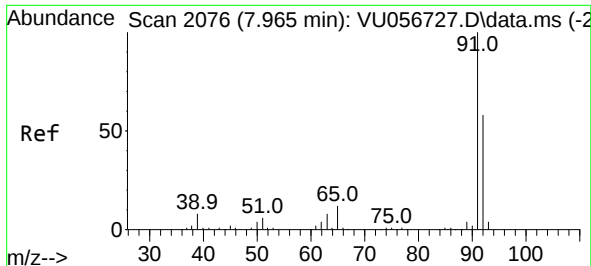
Ion Ratio Lower Upper

43 100

58 43.1 33.7 50.5

100 16.3 13.0 19.4





#42

Toluene

Concen: 4.164 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

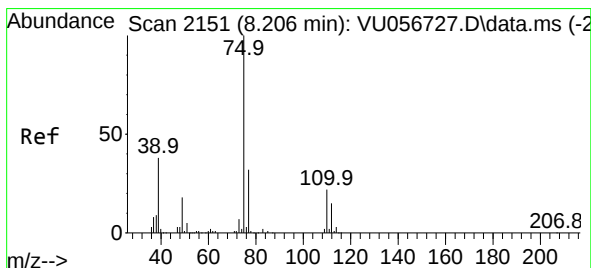
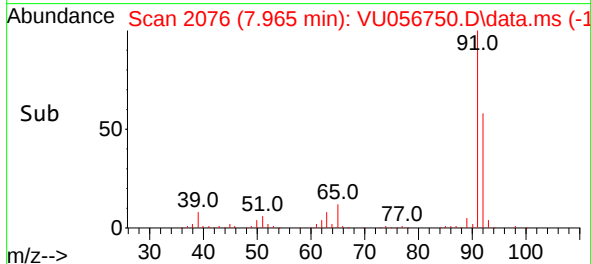
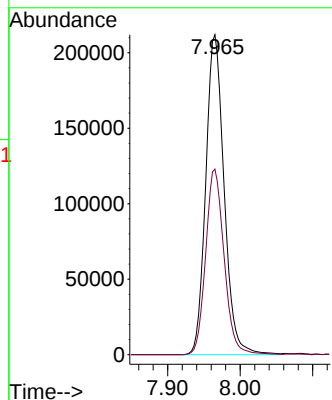
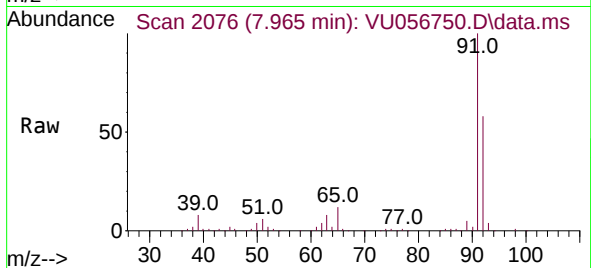
ClientSampleId :

Tgt Ion: 91 Resp: 373484

Ion Ratio Lower Upper

91 100

92 58.0 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 3.719 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.000 min

Lab File: VU056750.D

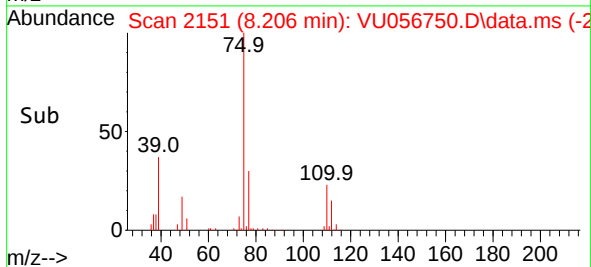
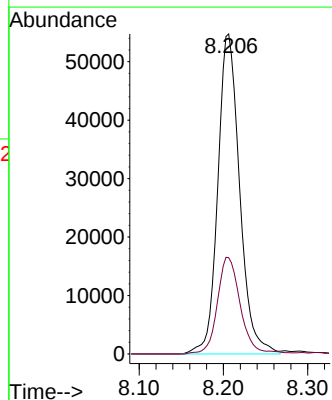
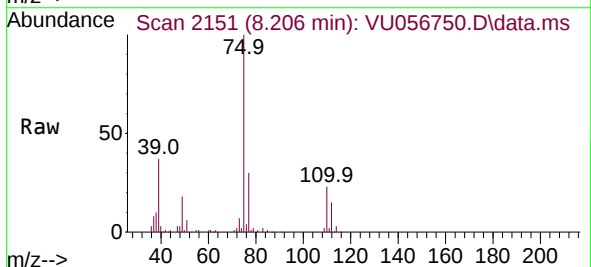
Acq: 11 Dec 2023 22:32

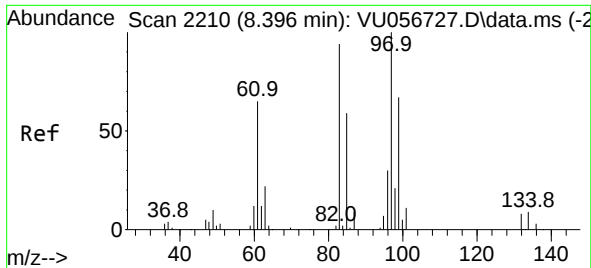
Tgt Ion: 75 Resp: 98518

Ion Ratio Lower Upper

75 100

77 30.1 21.8 40.4

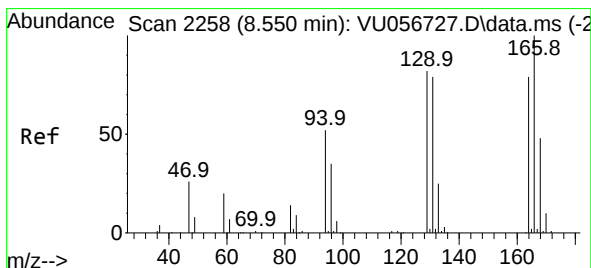
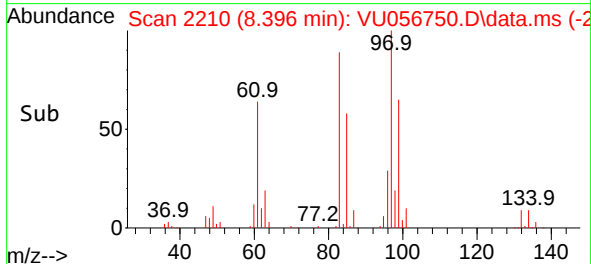
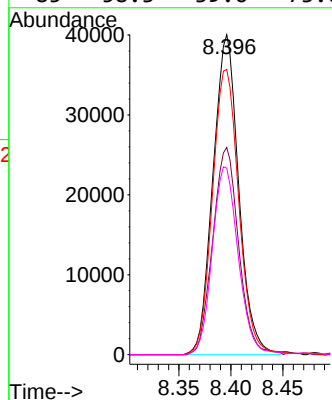
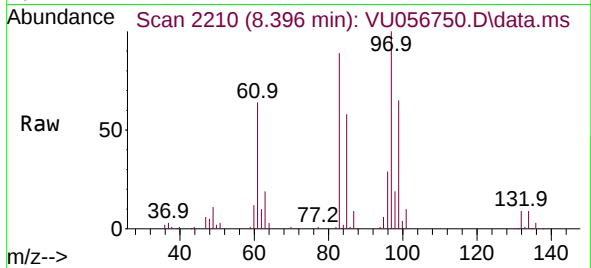




#45  
1,1,2-Trichloroethane  
Concen: 4.596 ug/L  
RT: 8.396 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

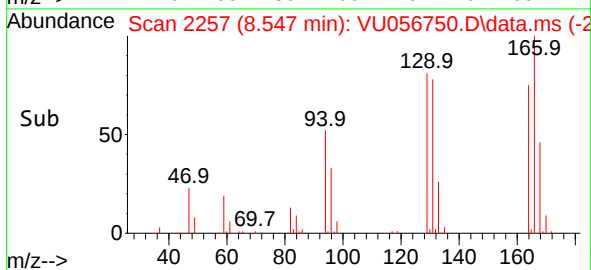
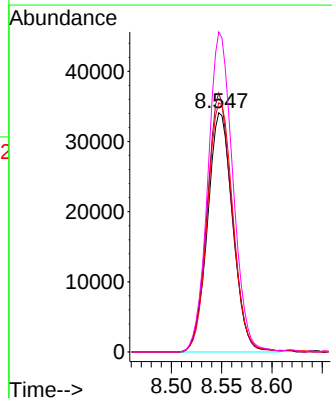
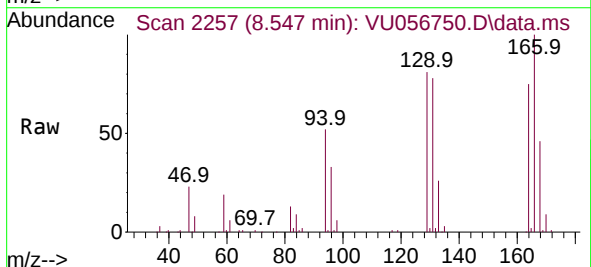
Instrument :  
MSVOA\_U  
ClientSampleId :

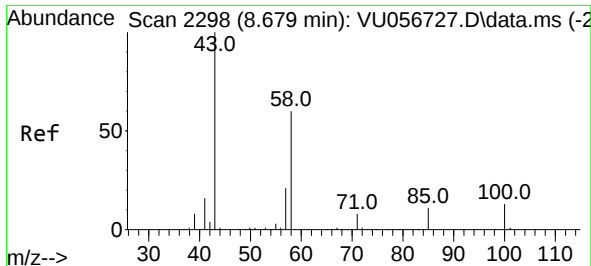
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 68900 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.8  | 41.9  | 77.9  |
| 83       | 89.2  | 59.1  | 109.7 |
| 85       | 58.3  | 39.6  | 73.6  |



#47  
Tetrachloroethene  
Concen: 3.580 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. -0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

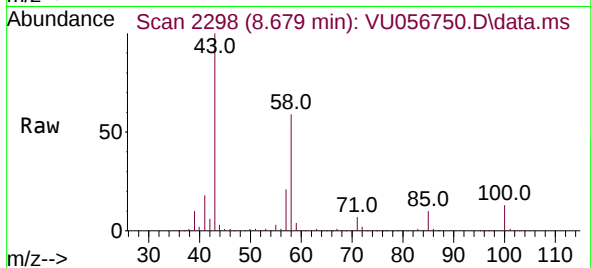
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 59576 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 108.4 | 73.4  | 136.4 |
| 131      | 104.2 | 71.5  | 132.9 |
| 166      | 133.8 | 92.7  | 172.1 |



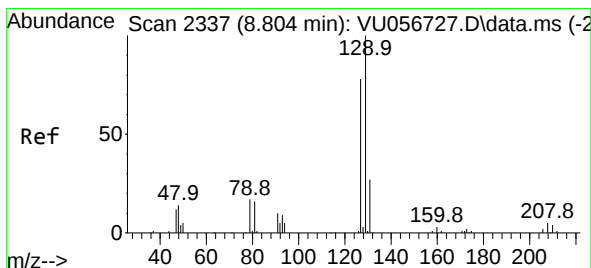
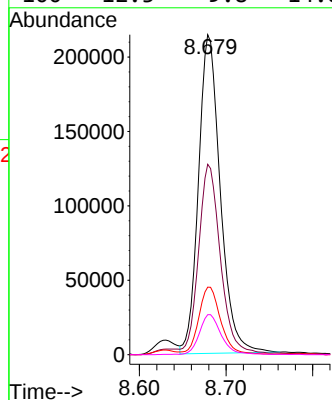
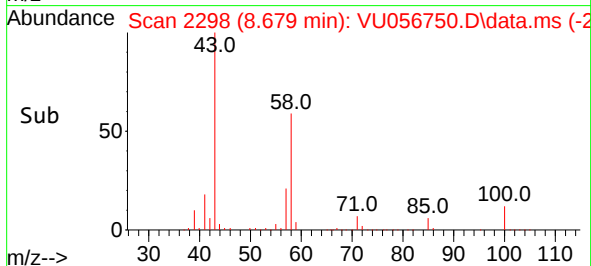


#48  
2-Hexanone  
Concen: 49.935 ug/L  
RT: 8.679 min Scan# 2298  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Instrument :  
MSVOA\_U  
ClientSampleId :

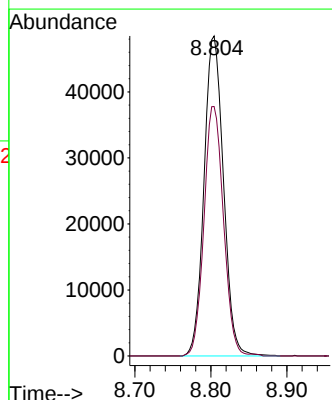
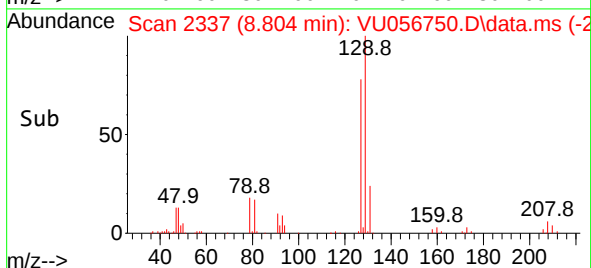
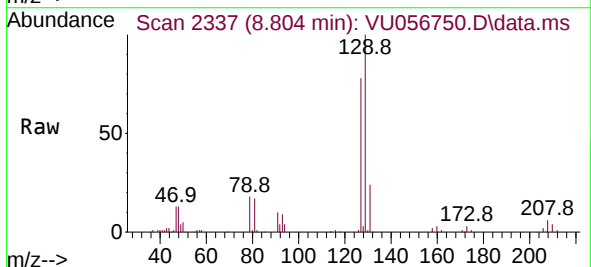


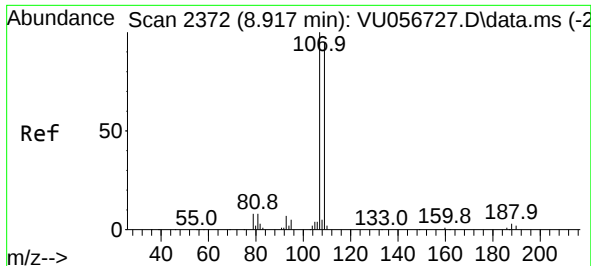
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 374464 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 62.1  | 47.5  | 71.3   |
| 57       | 21.6  | 17.0  | 25.4   |
| 100      | 12.3  | 9.8   | 14.8   |



#49  
Dibromochloromethane  
Concen: 4.992 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 86021 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.0  | 53.9  | 100.1 |





#50

1,2-Dibromoethane

Concen: 4.528 ug/L

RT: 8.920 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU056750.D

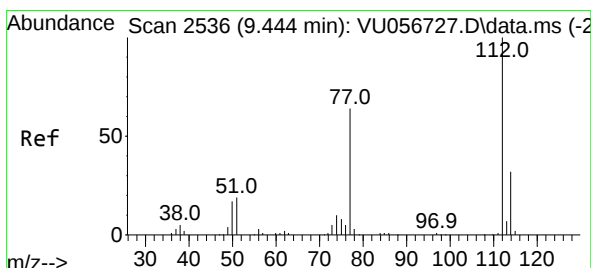
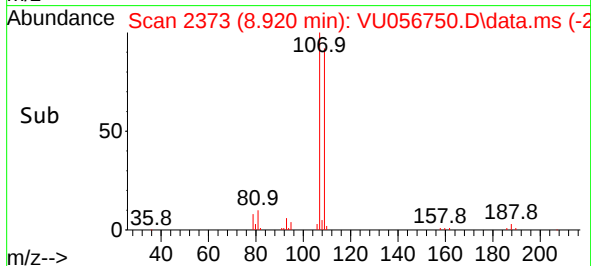
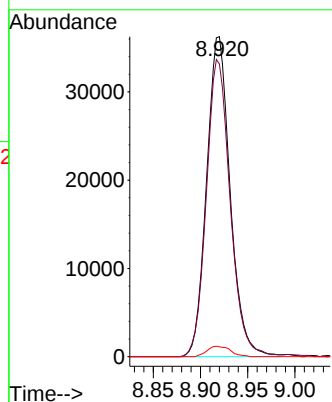
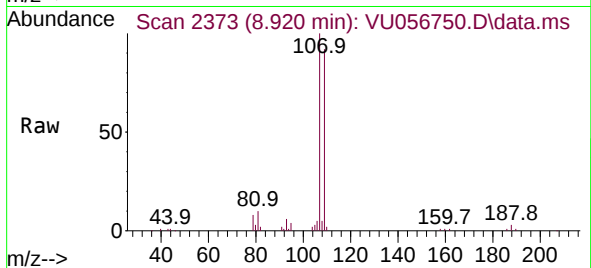
Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 62991 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 109      | 91.5  | 66.5  | 123.5 |
| 188      | 3.1   | 2.9   | 4.3   |



#51

Chlorobenzene

Concen: 4.315 ug/L

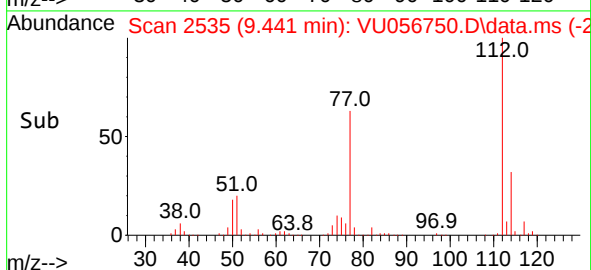
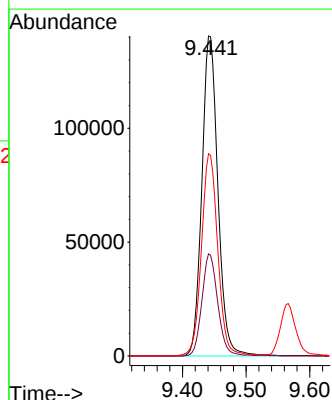
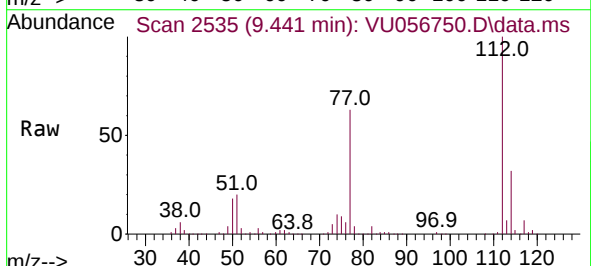
RT: 9.441 min Scan# 2535

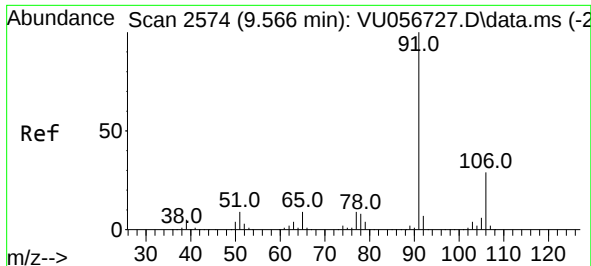
Delta R.T. -0.003 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 246647 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.9  | 21.9  | 40.7   |
| 77       | 63.2  | 51.6  | 77.4   |

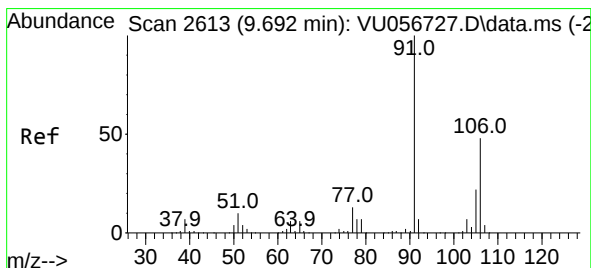
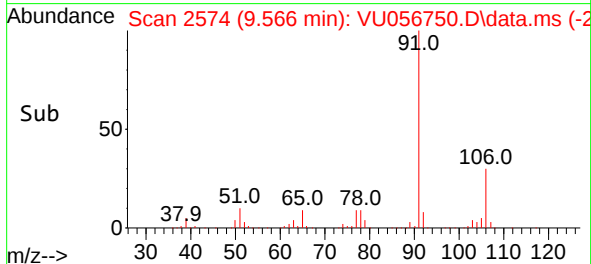
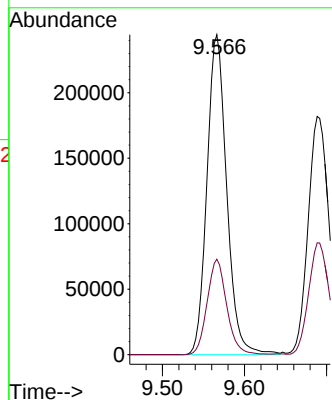
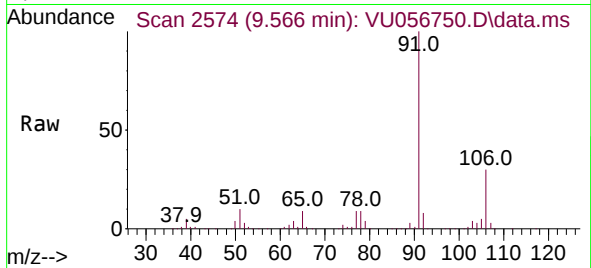




#52  
Ethylbenzene  
Concen: 4.142 ug/L  
RT: 9.566 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

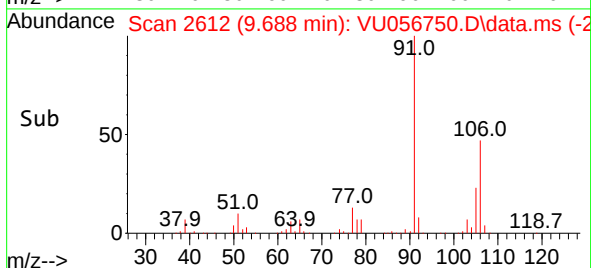
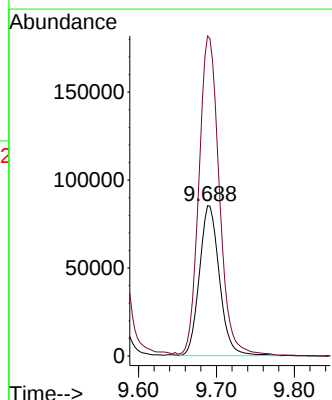
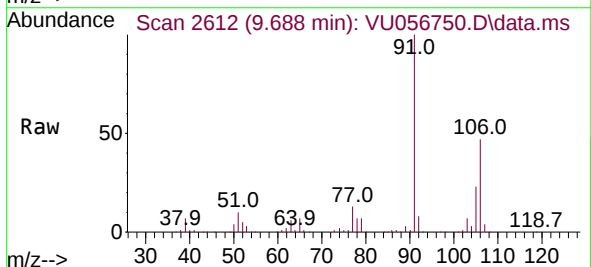
Instrument :  
MSVOA\_U  
ClientSampleId :

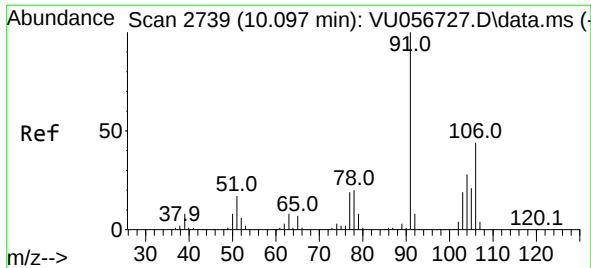
Tgt Ion: 91 Resp: 409818  
Ion Ratio Lower Upper  
91 100  
106 29.9 20.6 38.4



#53  
m,p-Xylene  
Concen: 4.115 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. -0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Tgt Ion: 106 Resp: 151680  
Ion Ratio Lower Upper  
106 100  
91 213.0 154.0 286.0

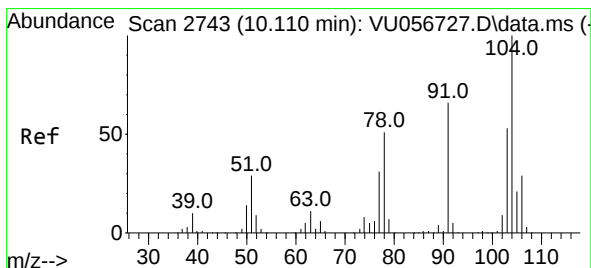
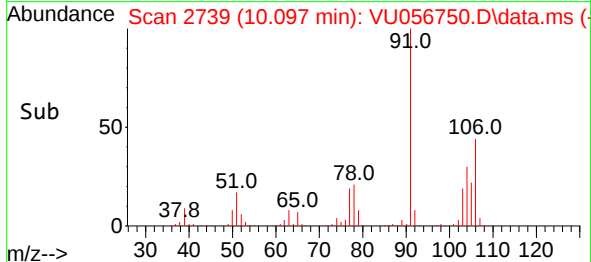
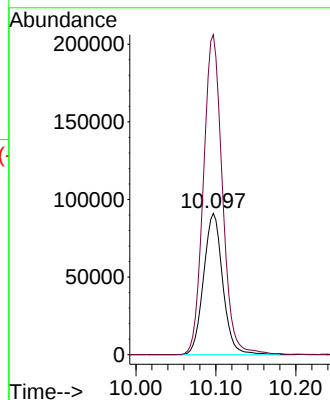
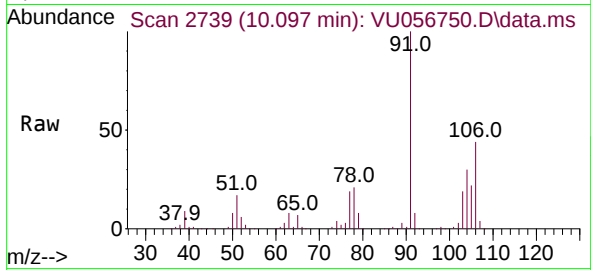




#54  
o-Xylene  
Concen: 4.332 ug/L  
RT: 10.097 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

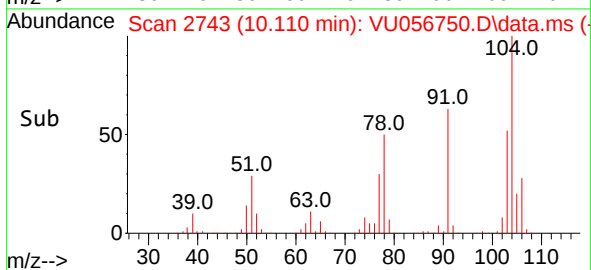
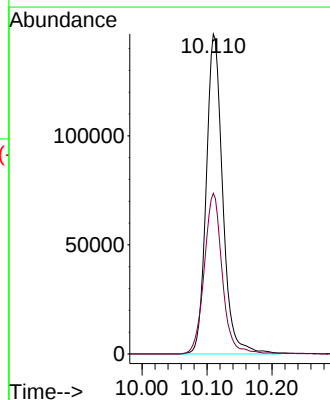
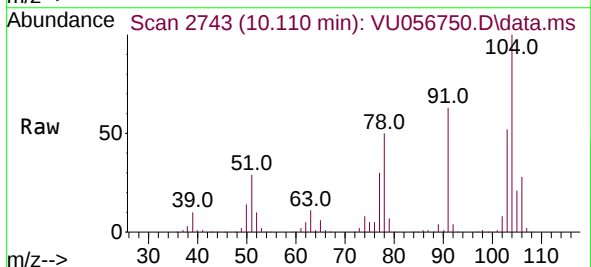
Instrument :  
MSVOA\_U  
ClientSampleId :

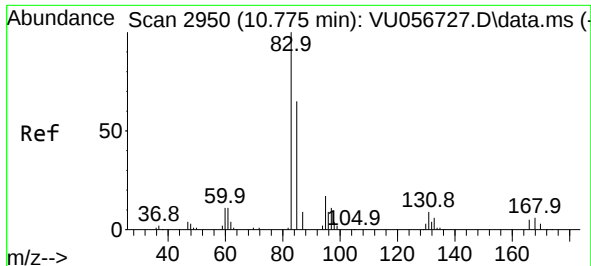
Tgt Ion:106 Resp: 152118  
Ion Ratio Lower Upper  
106 100  
91 226.5 160.2 297.6



#55  
Styrene  
Concen: 4.490 ug/L  
RT: 10.110 min Scan# 2743  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

Tgt Ion:104 Resp: 258893  
Ion Ratio Lower Upper  
104 100  
78 50.2 35.6 66.2





#57

1,1,2,2-Tetrachloroethane

Concen: 4.867 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. -0.000 min

Lab File: VU056750.D

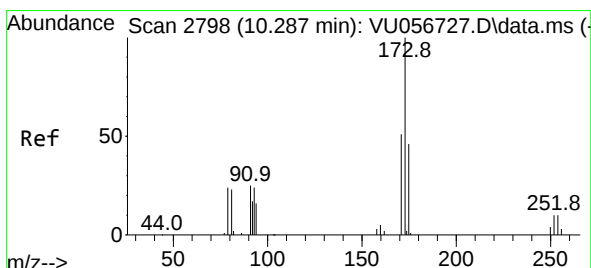
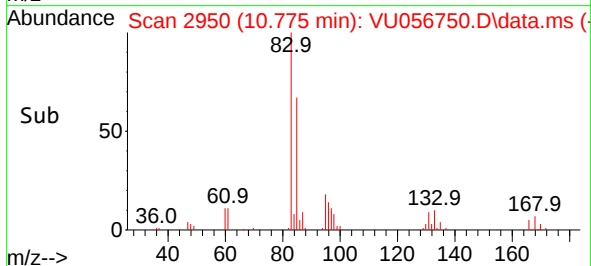
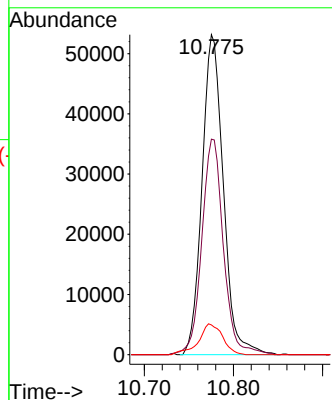
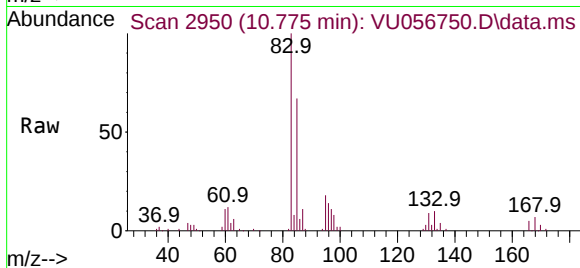
Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 88149 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 67.4  | 45.4  | 84.4  |
| 131      | 9.3   | 6.6   | 9.8   |



#59

Bromoform

Concen: 4.426 ug/L

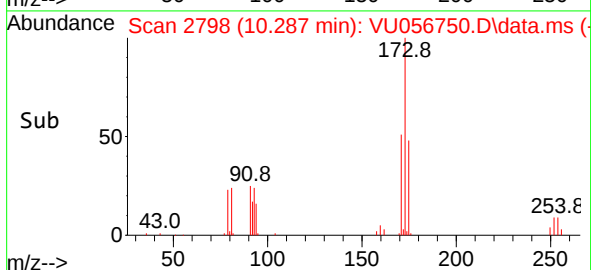
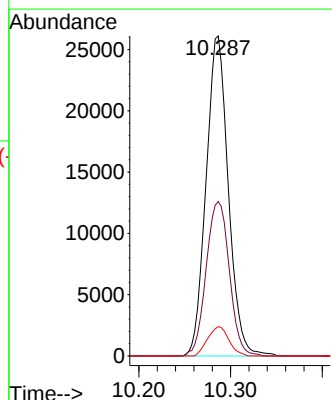
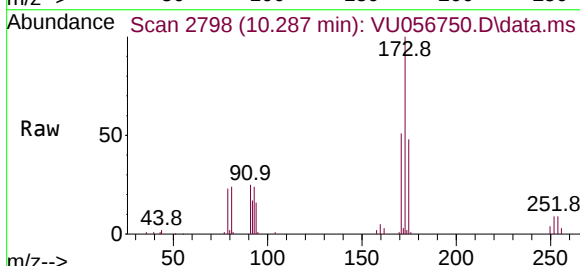
RT: 10.287 min Scan# 2798

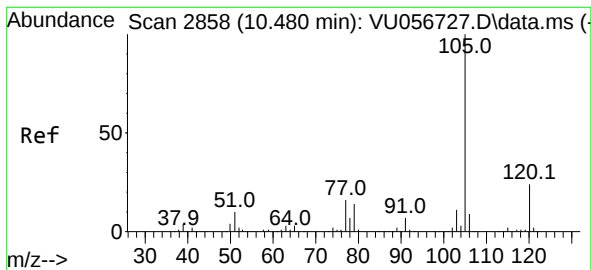
Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 44001 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 50.3  | 38.2  | 57.2  |
| 254      | 8.7   | 7.0   | 10.4  |





#60

Isopropylbenzene

Concen: 4.253 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. -0.000 min

Lab File: VU056750.D

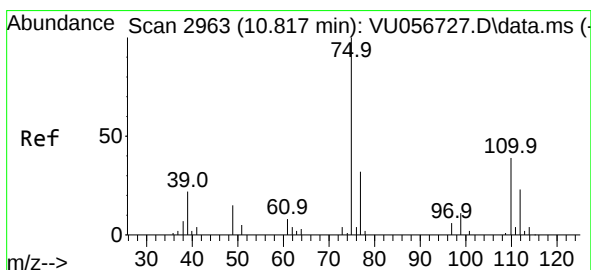
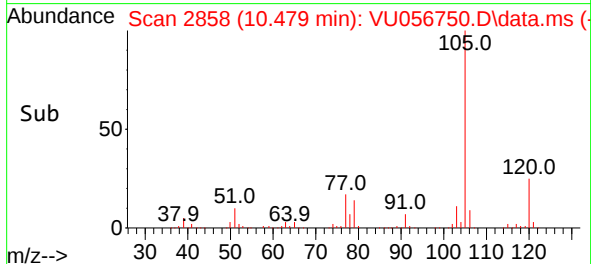
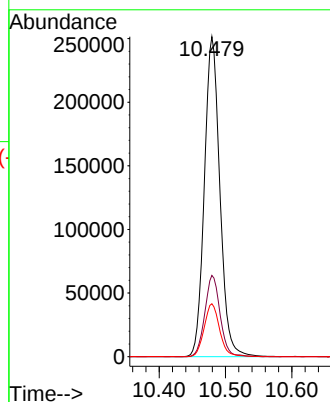
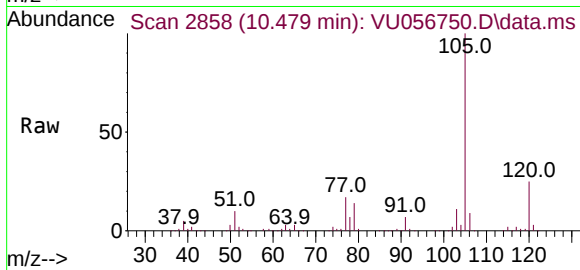
Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 409058 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 25.1  | 20.1  | 30.1   |
| 77        | 16.5  | 13.2  | 19.8   |



#61

1,2,3-Trichloropropane

Concen: 4.764 ug/L

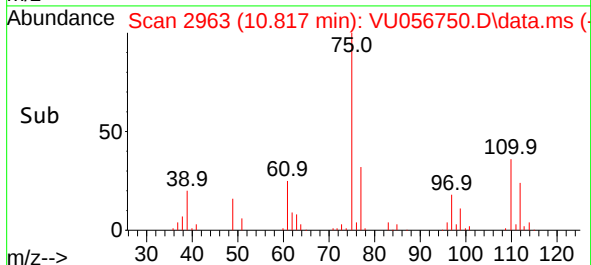
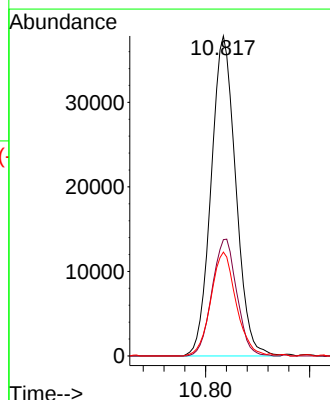
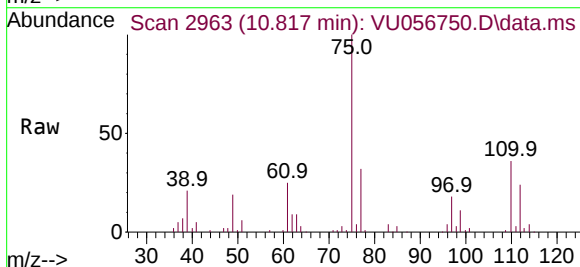
RT: 10.817 min Scan# 2963

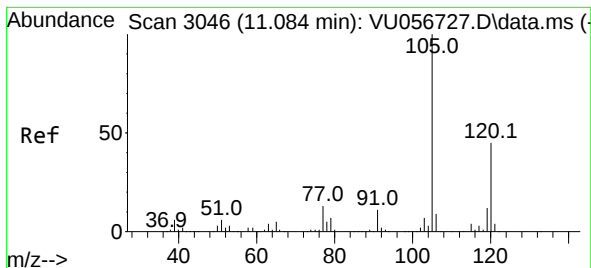
Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 62275 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 36.6  | 28.4  | 42.6  |
| 77        | 33.4  | 26.3  | 39.5  |





#62

1,3,5-Trimethylbenzene

Concen: 4.108 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

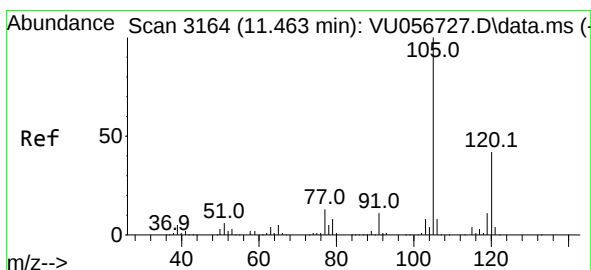
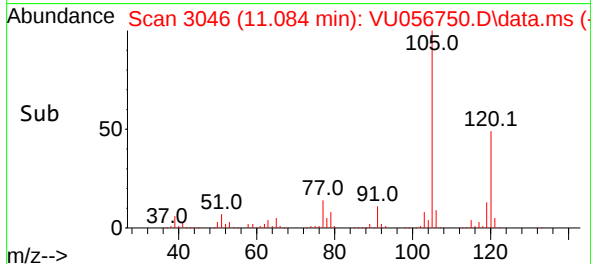
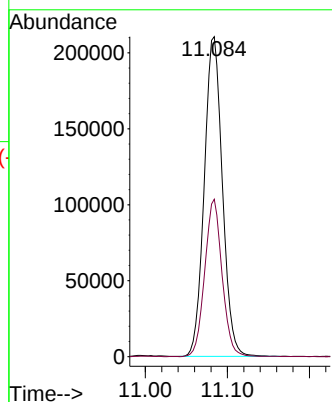
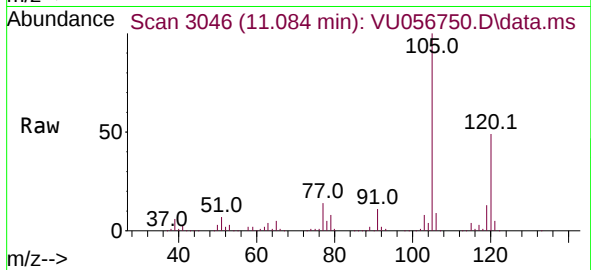
ClientSampleId :

Tgt Ion:105 Resp: 322912

Ion Ratio Lower Upper

105 100

120 47.1 36.8 55.2



#63

1,2,4-Trimethylbenzene

Concen: 4.249 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU056750.D

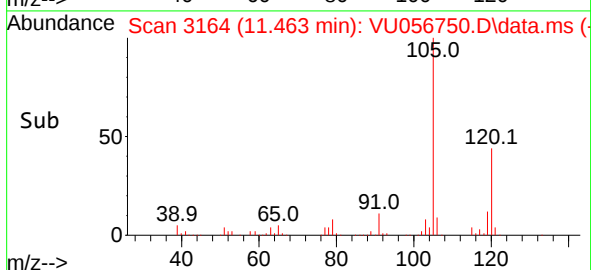
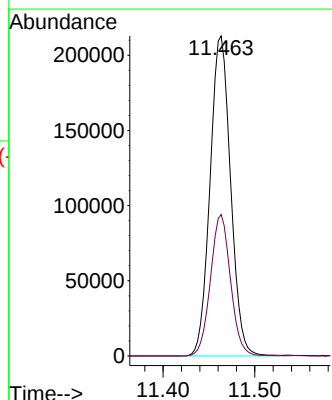
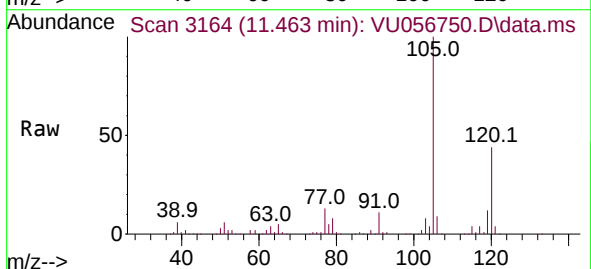
Acq: 11 Dec 2023 22:32

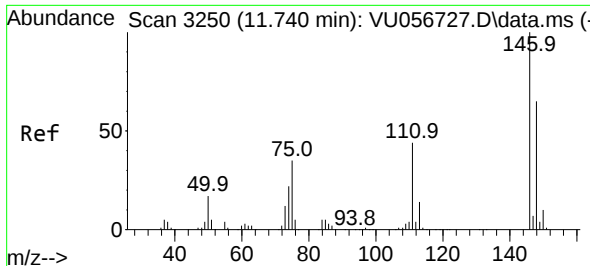
Tgt Ion:105 Resp: 331756

Ion Ratio Lower Upper

105 100

120 43.2 34.2 51.4

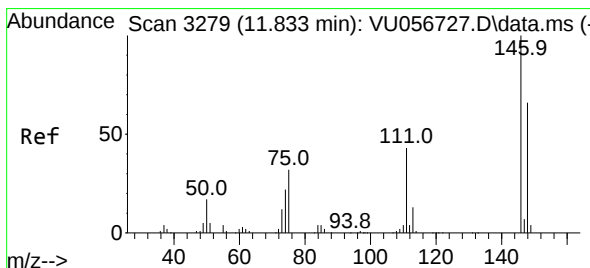
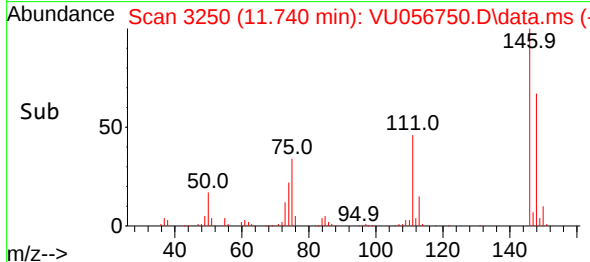
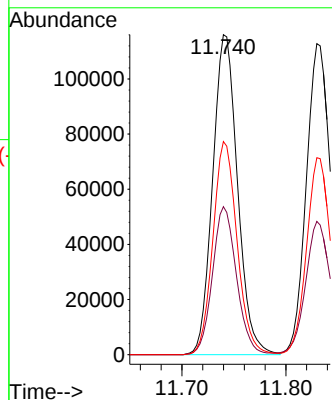
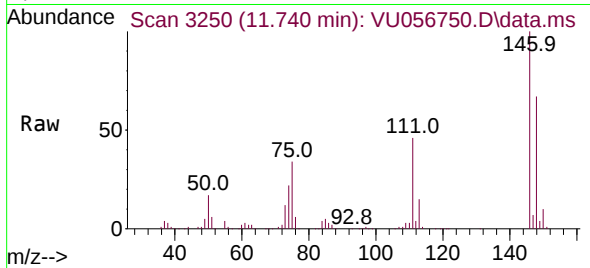




#64  
1,3-Dichlorobenzene  
Concen: 4.240 ug/L  
RT: 11.740 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

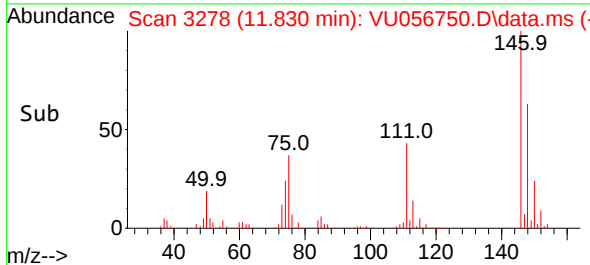
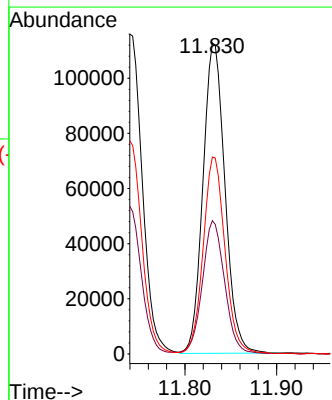
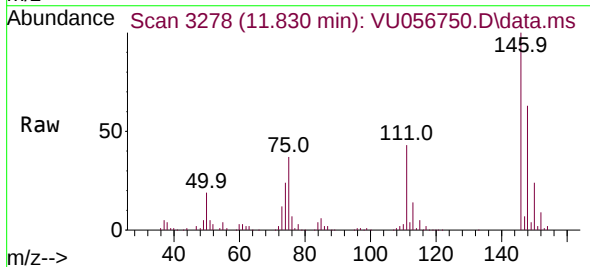
Instrument :  
MSVOA\_U  
ClientSampleId :

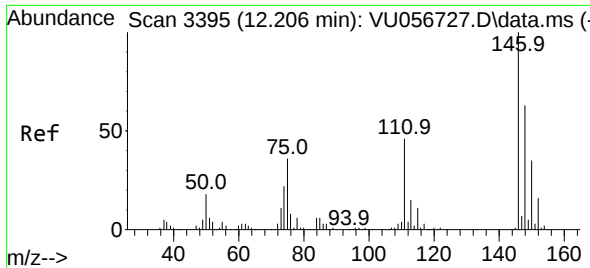
Tgt Ion:146 Resp: 192942  
Ion Ratio Lower Upper  
146 100  
111 46.3 31.7 58.9  
148 66.6 44.3 82.3



#65  
1,4-Dichlorobenzene  
Concen: 4.181 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. -0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

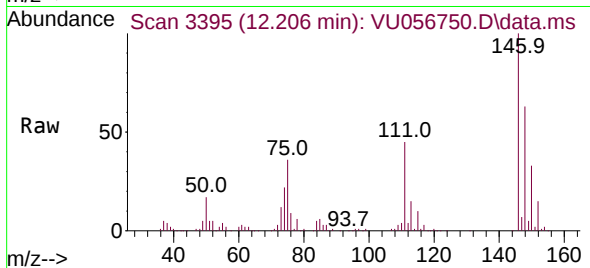
Tgt Ion:146 Resp: 187312  
Ion Ratio Lower Upper  
146 100  
111 42.8 31.2 58.0  
148 63.3 45.6 84.8



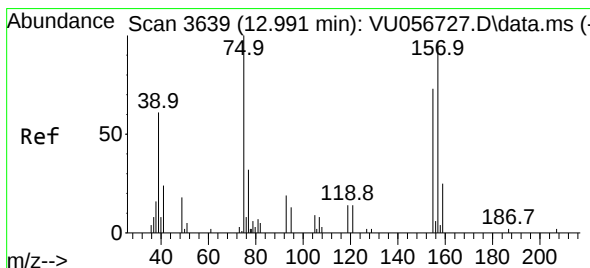
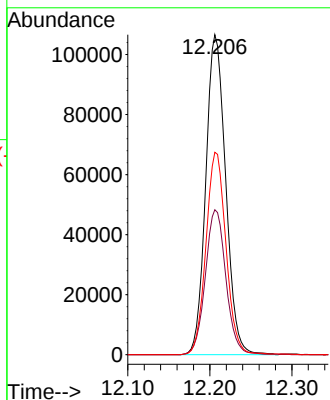
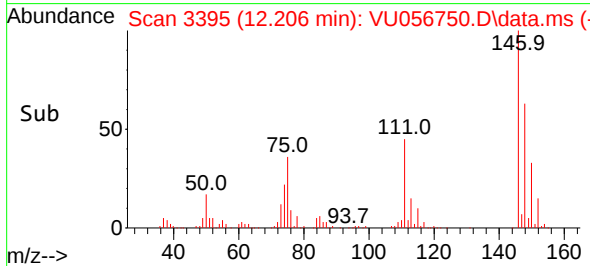


#67  
1,2-Dichlorobenzene  
Concen: 4.344 ug/L  
RT: 12.206 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32

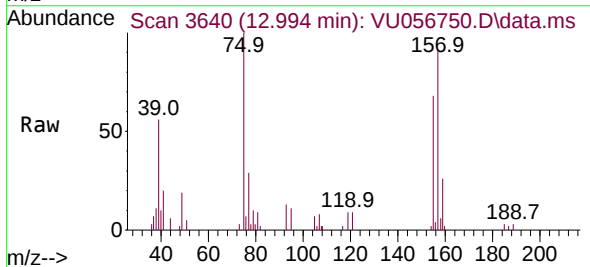
Instrument :  
MSVOA\_U  
ClientSampleId :



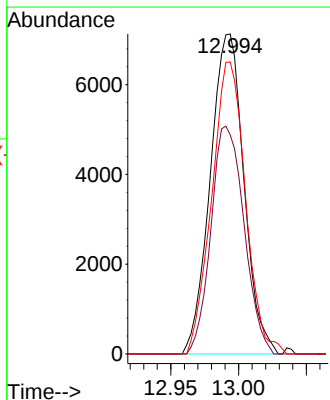
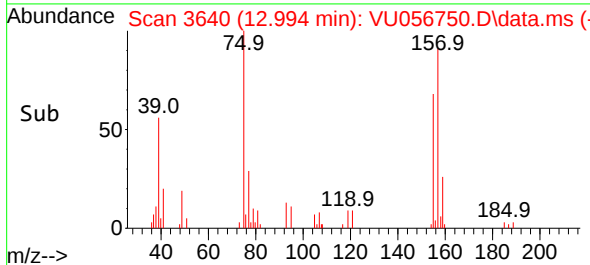
Tgt Ion:146 Resp: 180063  
Ion Ratio Lower Upper  
146 100  
111 45.3 36.9 55.3  
148 63.3 53.0 79.4

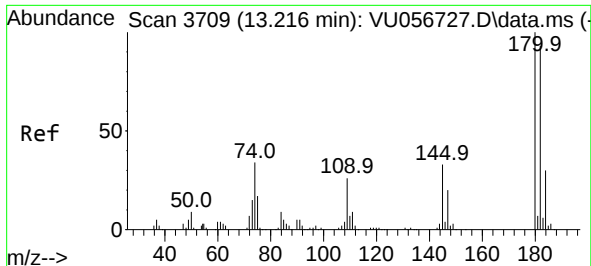


#68  
1,2-Dibromo-3-chloropropane  
Concen: 4.719 ug/L  
RT: 12.994 min Scan# 3640  
Delta R.T. 0.003 min  
Lab File: VU056750.D  
Acq: 11 Dec 2023 22:32



Tgt Ion: 75 Resp: 12316  
Ion Ratio Lower Upper  
75 100  
155 68.4 55.4 83.2  
157 91.2 77.3 115.9





#69

1,3,5-Trichlorobenzene

Concen: 3.949 ug/L

RT: 13.212 min Scan# 31

Delta R.T. -0.003 min

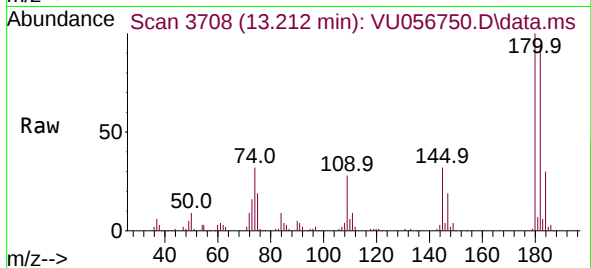
Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 135779

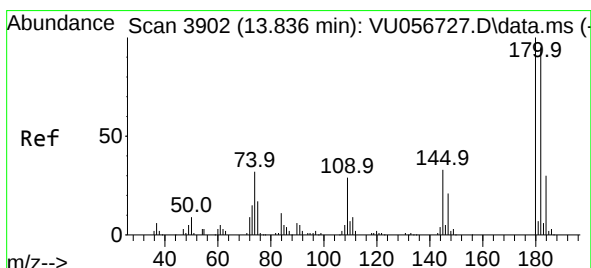
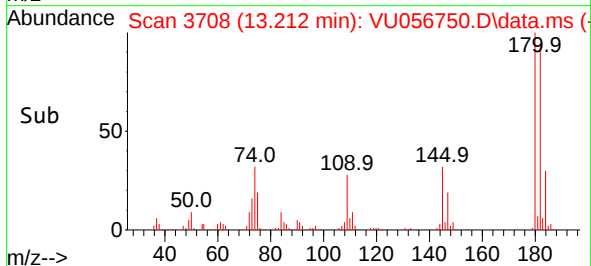
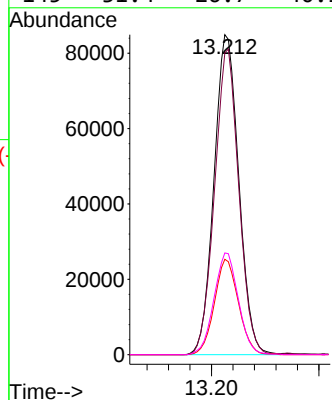
Ion Ratio Lower Upper

180 100

182 93.6 76.2 114.4

184 29.0 24.6 37.0

145 31.4 26.7 40.1



#70

1,2,4-trichlorobenzene

Concen: 3.895 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

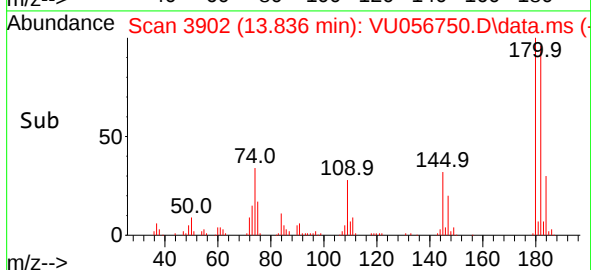
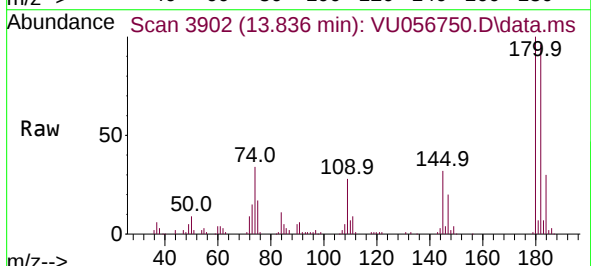
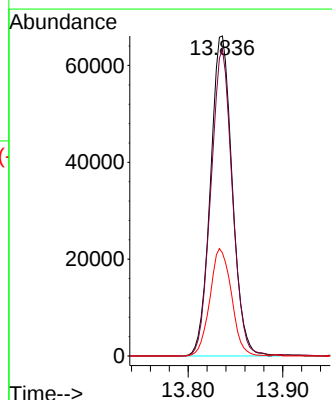
Tgt Ion:180 Resp: 106057

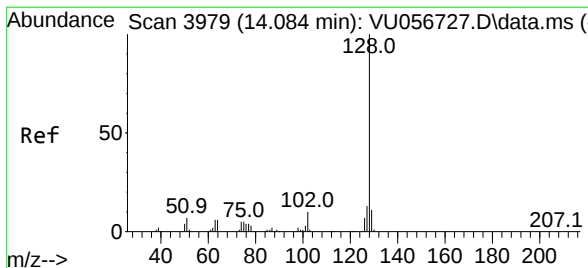
Ion Ratio Lower Upper

180 100

182 93.8 74.3 111.5

145 33.2 26.7 40.1





#71

Naphthalene

Concen: 3.799 ug/L

RT: 14.084 min Scan# 3979

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

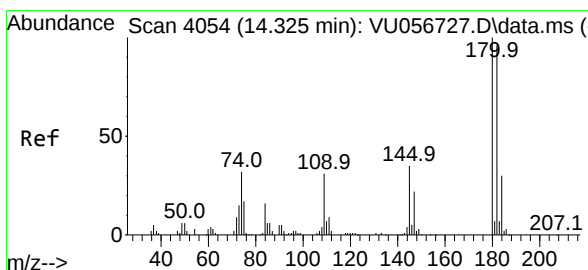
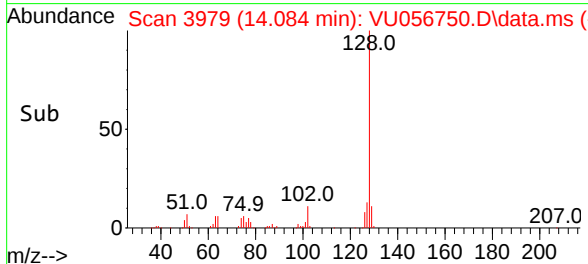
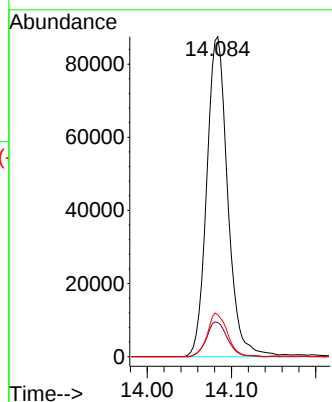
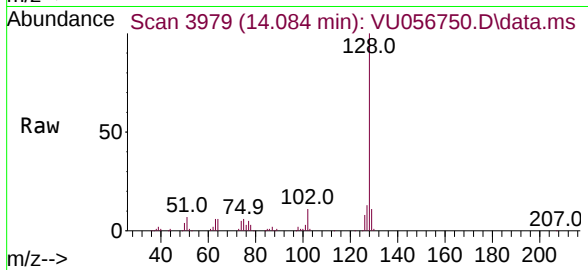
Tgt Ion:128 Resp: 151348

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

127 13.1 10.2 15.2



#72

1,2,3-Trichlorobenzene

Concen: 3.817 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. -0.000 min

Lab File: VU056750.D

Acq: 11 Dec 2023 22:32

Tgt Ion:180 Resp: 88216

Ion Ratio Lower Upper

180 100

182 97.0 75.0 112.6

145 36.2 28.6 42.8

