

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032024\  
 Data File : VU058173.D  
 Acq On : 20 Mar 2024 11:41  
 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 21 01:41:43 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR022924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Mar 20 05:19:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245  | 114   | 112322   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 106157   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 50347    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 32936    | 4.075    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 81.600%  |
| 7) Chloroethane-d5            | 1.911  | 69    | 30834    | 4.642    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 92.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 15740    | 4.501    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 90.000%  |
| 20) 2-Butanone-d5             | 4.628  | 46    | 79970    | 60.058   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 120.120% |
| 24) Chloroform-d              | 5.055  | 84    | 74858    | 4.898    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 34888    | 5.038    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 100.800% |
| 32) Benzene-d6                | 5.721  | 84    | 140295   | 4.535    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.685  | 67    | 44771    | 4.760    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.200%  |
| 41) Toluene-d8                | 7.891  | 98    | 124470   | 4.441    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.800%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 13986    | 4.325    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 86.400%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 63819    | 58.774   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 117.540% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 30265    | 5.248    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 105.000% |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 38956    | 4.698    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 29866    | 4.389    | ug/L   | 99       |
| 3) Chloromethane              | 1.518  | 50    | 36665    | 4.607    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.602  | 62    | 39368    | 4.599    | ug/L   | 99       |
| 6) Bromomethane               | 1.856  | 94    | 20632    | 4.576    | ug/L   | 99       |
| 8) Chloroethane               | 1.933  | 64    | 27565    | 5.114    | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 2.136  | 101   | 60856    | 4.991    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101   | 40406    | 5.300    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 32942    | 4.861    | ug/L   | 98       |
| 13) Acetone                   | 2.640  | 43    | 66137    | 66.742   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.792  | 76    | 79872    | 3.811    | ug/L   | 100      |
| 15) Methyl Acetate            | 2.952  | 43    | 13277    | 6.038    | ug/L   | 96       |
| 16) Methylene chloride        | 3.039  | 84    | 44307    | 5.379    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.354  | 73    | 87460    | 5.457    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.348  | 96    | 34875    | 4.724    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 81769    | 5.553    | ug/L   | 98       |
| 21) 2-Butanone                | 4.705  | 43    | 95898    | 61.417   | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.660  | 96    | 42322    | 5.212    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.968  | 128   | 16797    | 5.570    | ug/L   | 95       |
| 25) Chloroform                | 5.081  | 83    | 84349    | 5.611    | ug/L   | 99       |

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 Operator : MD/SY  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

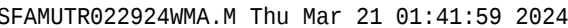
Instrument :  
 MSVOA\_U  
 ClientSampleId :

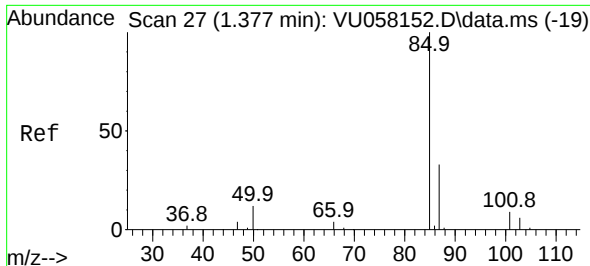
Quant Time: Mar 21 01:41:43 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR022924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Mar 20 05:19:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 47925    | 5.758  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 5.309  | 97   | 65076    | 5.150  | ug/L  | 97       |
| 30) Cyclohexane               | 5.383  | 56   | 58250    | 4.566  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.518  | 117  | 56281    | 5.126  | ug/L  | 98       |
| 33) Benzene                   | 5.769  | 78   | 172049   | 5.282  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 45110    | 5.263  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.759  | 83   | 60596    | 4.612  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.785  | 63   | 46627    | 5.551  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.100  | 83   | 54384    | 5.336  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene   | 7.602  | 75   | 59305    | 5.124  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.782  | 43   | 236170   | 61.118 | ug/L  | 100      |
| 42) Toluene                   | 7.965  | 91   | 177832   | 5.242  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 47399    | 5.139  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 29054    | 5.833  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.547  | 164  | 29157    | 4.903  | ug/L  | 98       |
| 48) 2-Hexanone                | 8.679  | 43   | 174550   | 61.596 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.804  | 129  | 32508    | 5.514  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 25402    | 5.747  | ug/L  | 94       |
| 51) Chlorobenzene             | 9.441  | 112  | 111883   | 5.259  | ug/L  | 97       |
| 52) Ethylbenzene              | 9.566  | 91   | 197619   | 5.206  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.688  | 106  | 71024    | 5.237  | ug/L  | 99       |
| 54) o-Xylene                  | 10.094 | 106  | 70627    | 5.225  | ug/L  | 99       |
| 55) Styrene                   | 10.110 | 104  | 114332   | 5.389  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 33590    | 5.725  | ug/L  | 95       |
| 59) Bromoform                 | 10.286 | 173  | 15913    | 5.667  | ug/L  | 99       |
| 60) Isopropylbenzene          | 10.476 | 105  | 183351   | 5.468  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.817 | 75   | 25209    | 6.113  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 149530   | 5.287  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 151764   | 5.437  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 83449    | 5.475  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 80282    | 5.382  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 76415    | 5.743  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 4654     | 5.688  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 13.212 | 180  | 58860    | 5.369  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 43005    | 5.221  | ug/L  | 100      |
| 71) Naphthalene               | 14.084 | 128  | 55026    | 4.891  | ug/L  | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 34197    | 5.256  | ug/L  | 98       |

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

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QLast Update : Wed Mar 20 05:19:57 2024  
Response via : Initial Calibration

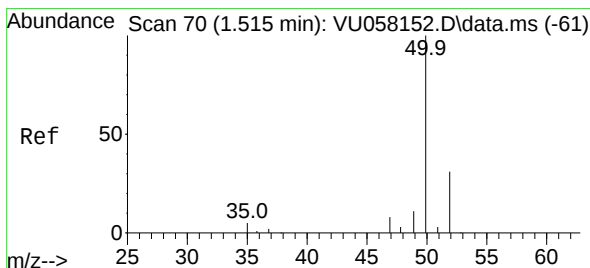
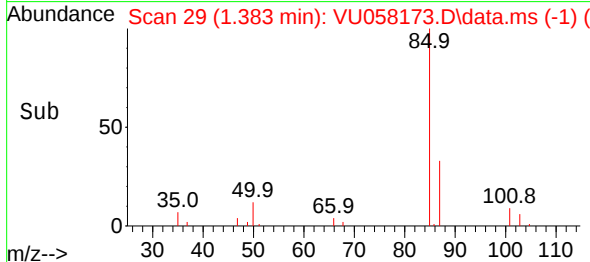
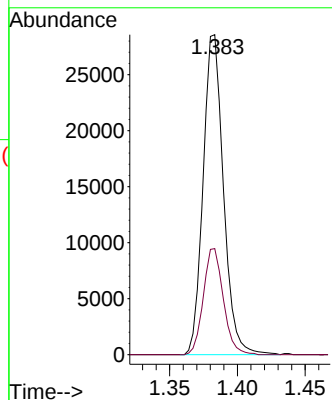
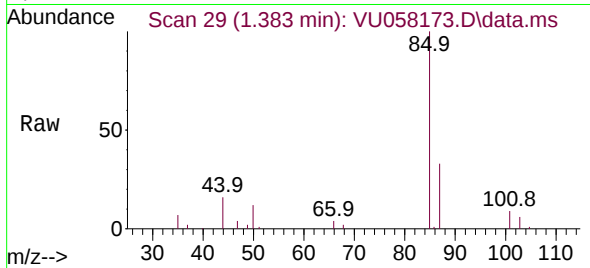




#2  
 Dichlorodifluoromethane  
 Concen: 4.389 ug/L  
 RT: 1.383 min Scan# 20  
 Delta R.T. 0.007 min  
 Lab File: VU058173.D  
 Acq: 20 Mar 2024 11:41

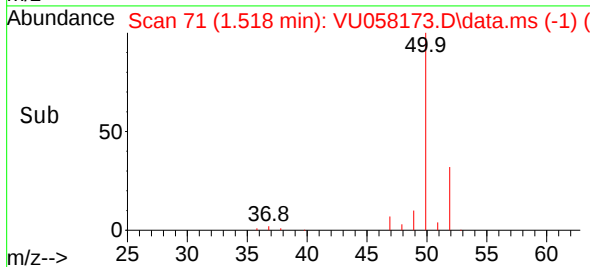
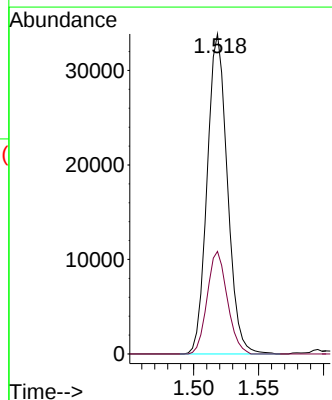
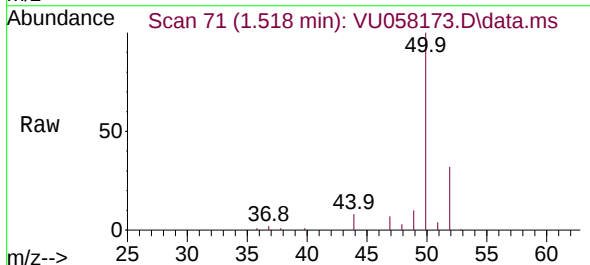
Instrument :  
 MSVOA\_U  
 ClientSampleId :

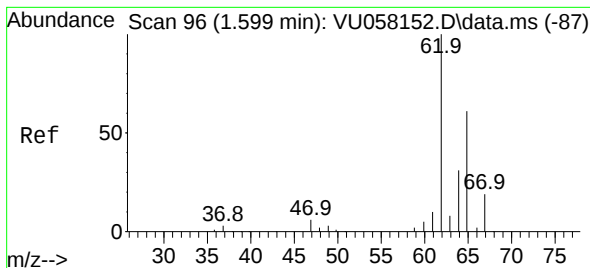
Tgt Ion: 85 Resp: 29866  
 Ion Ratio Lower Upper  
 85 100  
 87 32.5 25.8 38.6



#3  
 Chloromethane  
 Concen: 4.607 ug/L  
 RT: 1.518 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VU058173.D  
 Acq: 20 Mar 2024 11:41

Tgt Ion: 50 Resp: 36665  
 Ion Ratio Lower Upper  
 50 100  
 52 32.1 23.1 42.9





#5

Vinyl chloride

Concen: 4.599 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

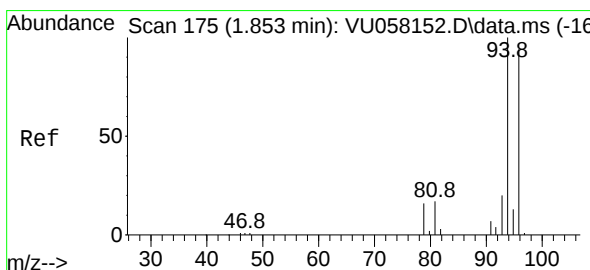
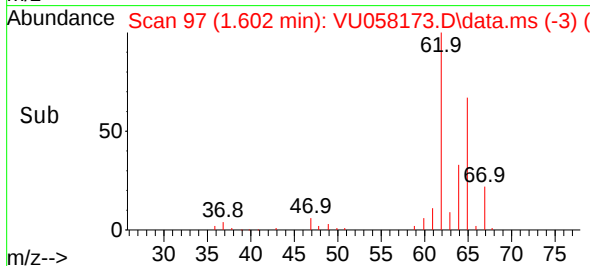
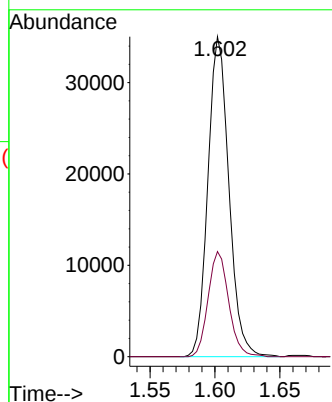
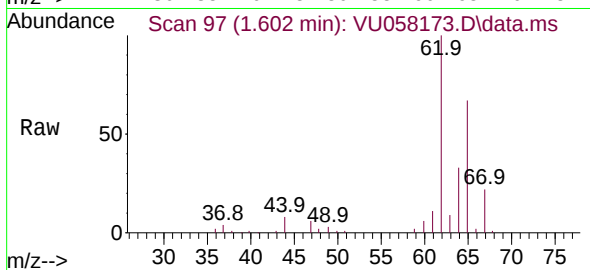
ClientSampleId :

Tgt Ion: 62 Resp: 39368

Ion Ratio Lower Upper

62 100

64 32.8 22.5 41.7



#6

Bromomethane

Concen: 4.576 ug/L

RT: 1.856 min Scan# 176

Delta R.T. 0.003 min

Lab File: VU058173.D

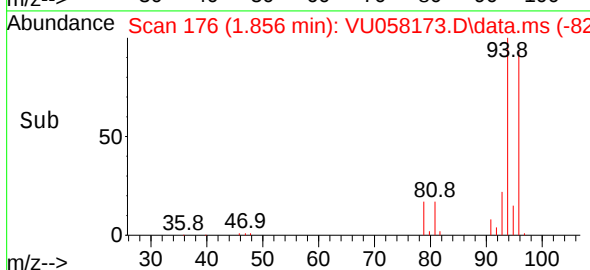
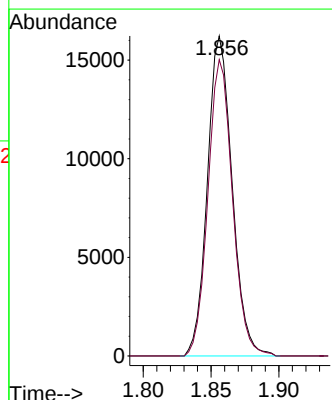
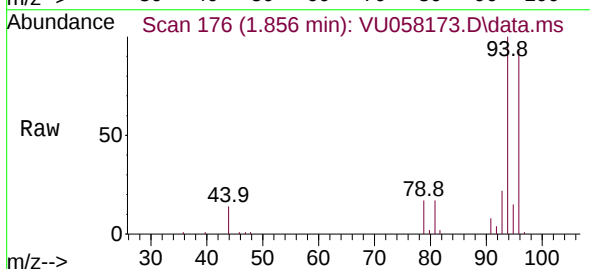
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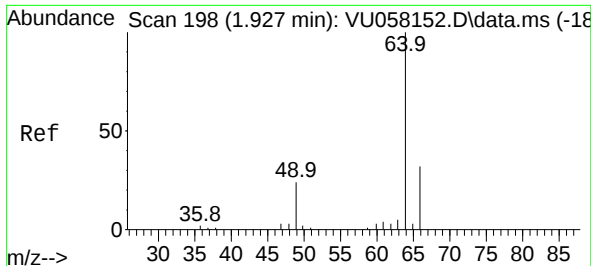
Tgt Ion: 94 Resp: 20632

Ion Ratio Lower Upper

94 100

96 92.6 65.2 121.2

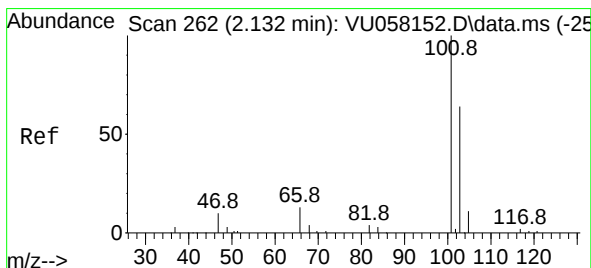
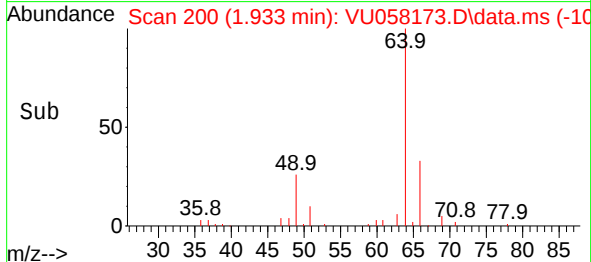
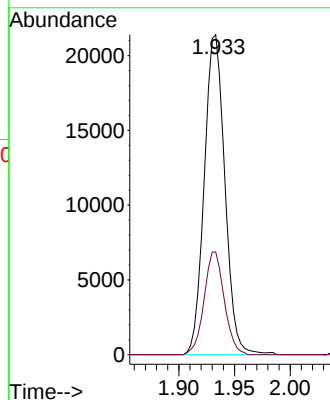
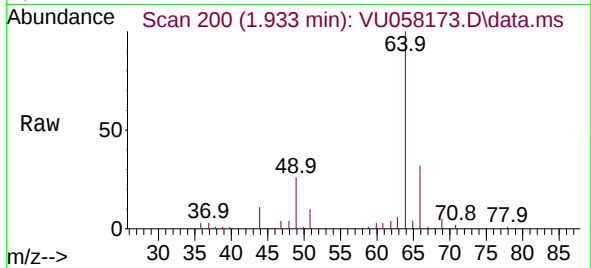




#8  
Chloroethane  
Concen: 5.114 ug/L  
RT: 1.933 min Scan# 200  
Delta R.T. 0.007 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

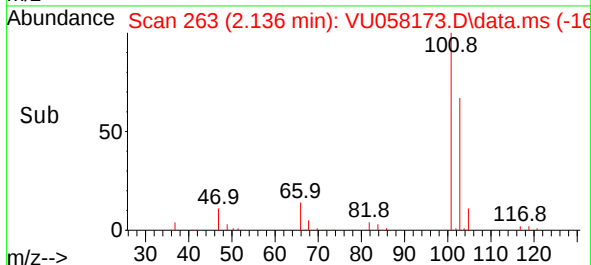
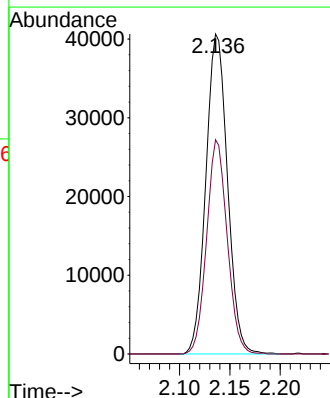
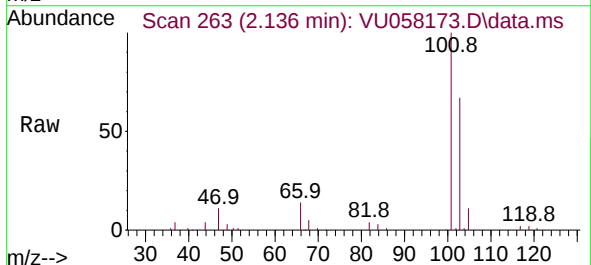
Instrument :  
MSVOA\_U  
ClientSampleId :

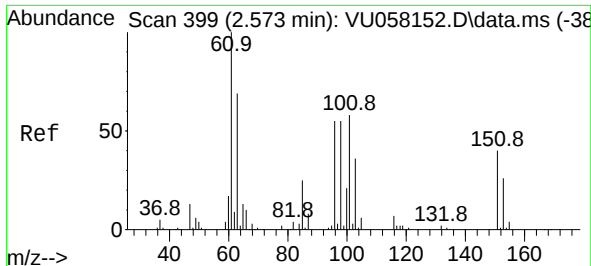
Tgt Ion: 64 Resp: 27565  
Ion Ratio Lower Upper  
64 100  
66 32.1 20.9 38.9



#9  
Trichlorofluoromethane  
Concen: 4.991 ug/L  
RT: 2.136 min Scan# 263  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

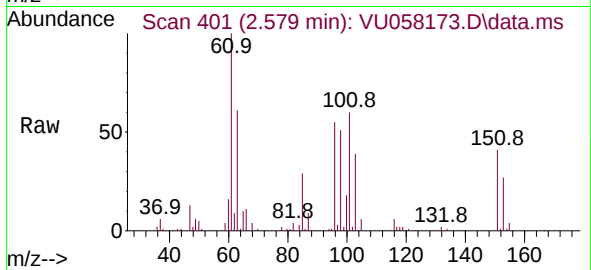
Tgt Ion:101 Resp: 60856  
Ion Ratio Lower Upper  
101 100  
103 63.7 51.4 77.2



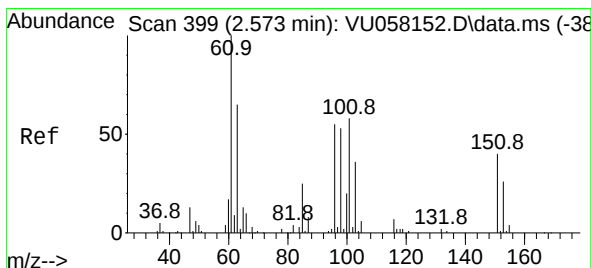
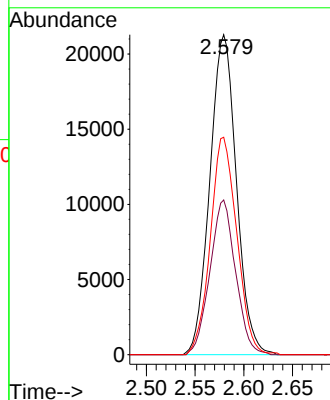
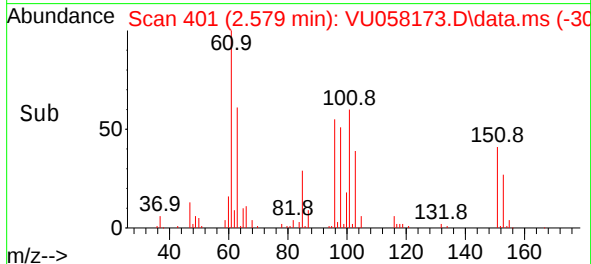


#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 5.300 ug/L  
RT: 2.579 min Scan# 401  
Delta R.T. 0.007 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Instrument :  
MSVOA\_U  
ClientSampleId :

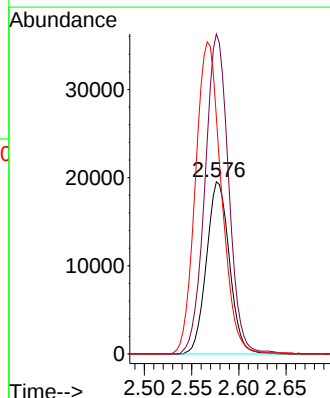
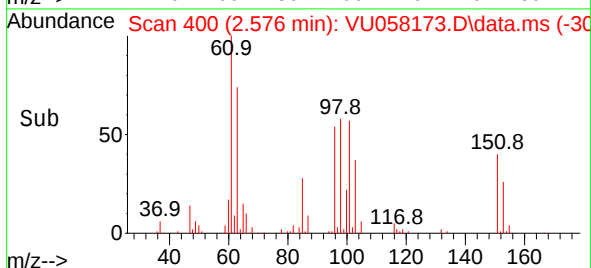
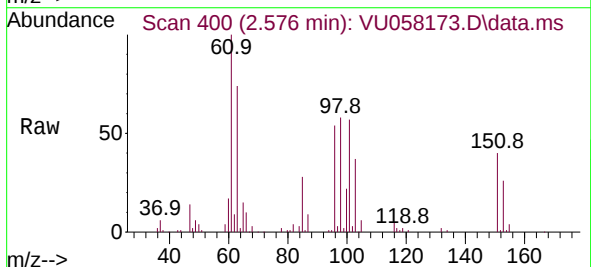


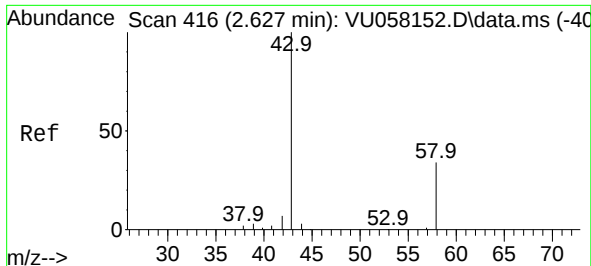
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Ion Ratio Lower Upper  
101 100  
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151 67.8 56.0 84.0



#12  
1,1-Dichloroethene  
Concen: 4.861 ug/L  
RT: 2.576 min Scan# 400  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 96 Resp: 32942  
Ion Ratio Lower Upper  
96 100  
61 185.9 131.8 244.8  
63 137.7 98.1 182.1





#13

Acetone

Concen: 66.742 ug/L

RT: 2.640 min Scan# 41

Delta R.T. 0.013 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

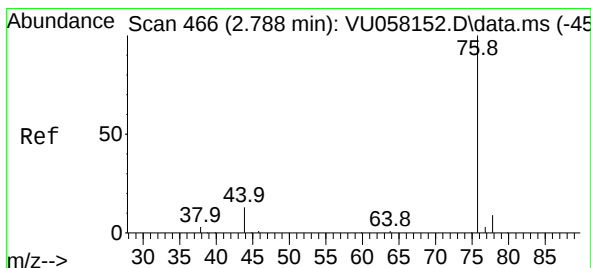
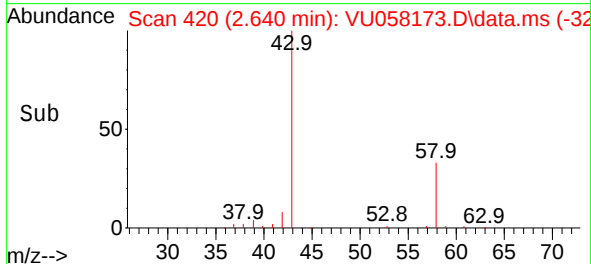
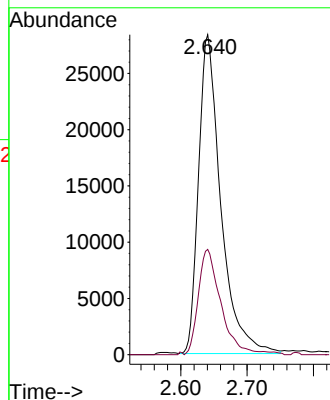
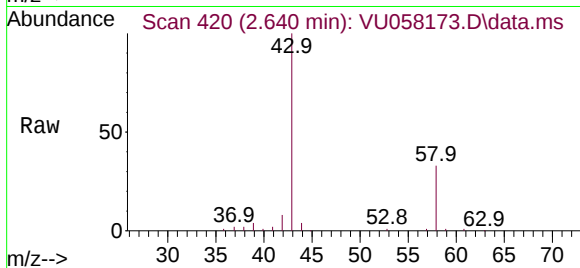
ClientSampleId :

Tgt Ion: 43 Resp: 66137

Ion Ratio Lower Upper

43 100

58 33.0 0.0 63.6



#14

Carbon disulfide

Concen: 3.811 ug/L

RT: 2.792 min Scan# 467

Delta R.T. 0.003 min

Lab File: VU058173.D

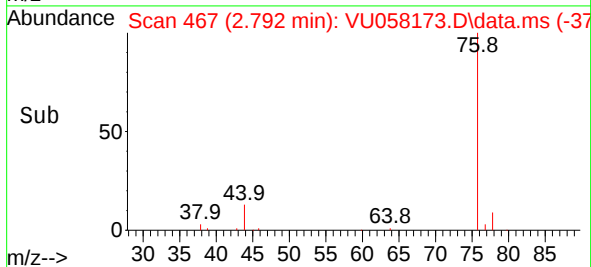
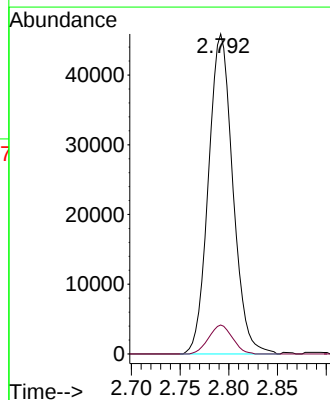
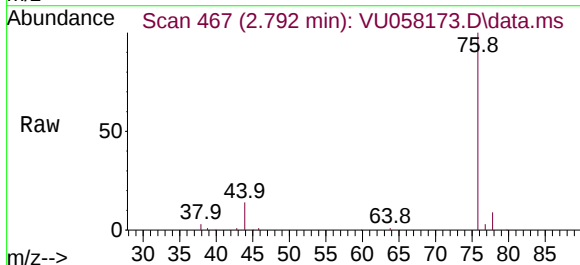
Acq: 20 Mar 2024 11:41

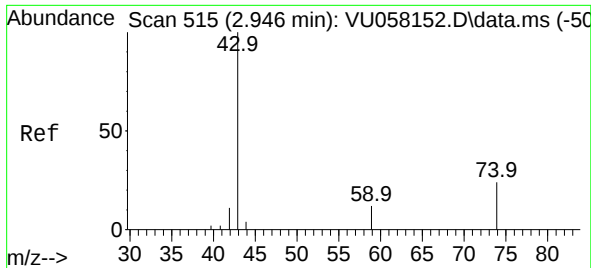
Tgt Ion: 76 Resp: 79872

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 6.038 ug/L

RT: 2.952 min Scan# 515

Delta R.T. 0.007 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

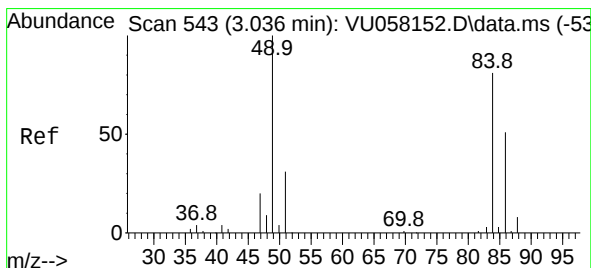
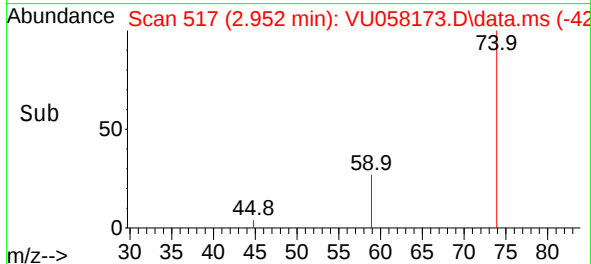
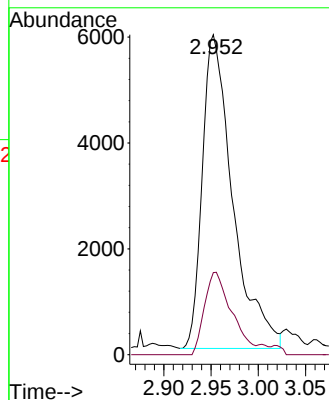
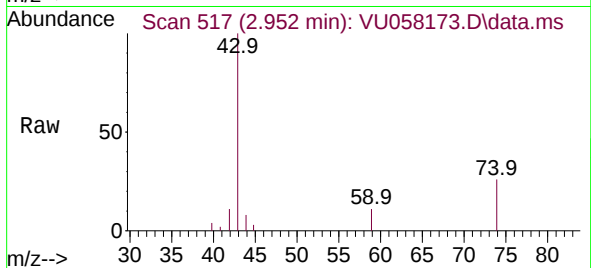
ClientSampleId :

Tgt Ion: 43 Resp: 13277

Ion Ratio Lower Upper

43 100

74 23.5 20.6 31.0



#16

Methylene chloride

Concen: 5.379 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

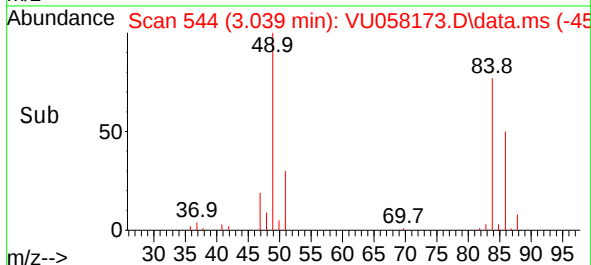
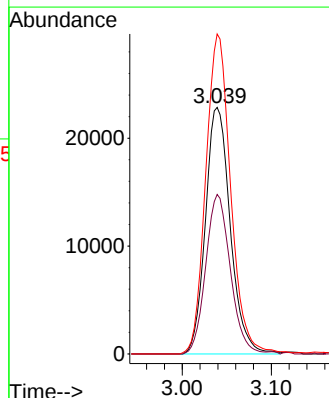
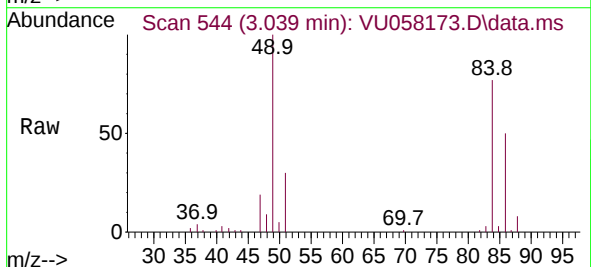
Tgt Ion: 84 Resp: 44307

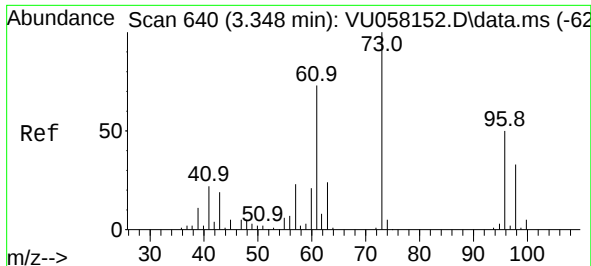
Ion Ratio Lower Upper

84 100

86 64.7 44.4 82.4

49 129.8 88.8 165.0

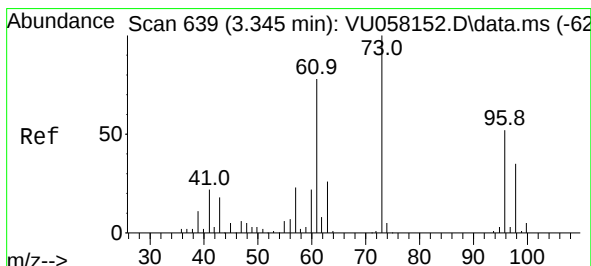
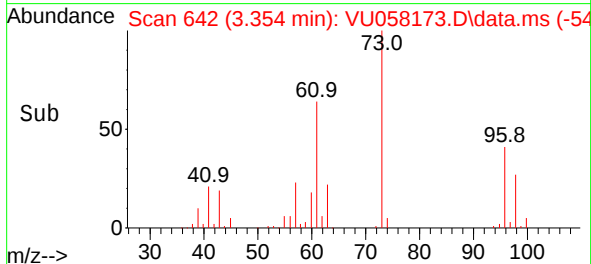
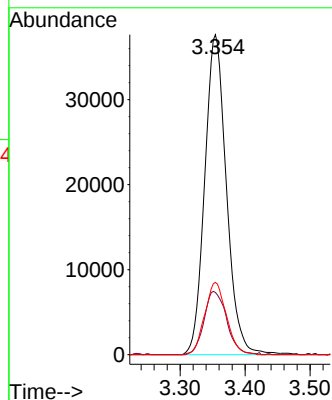
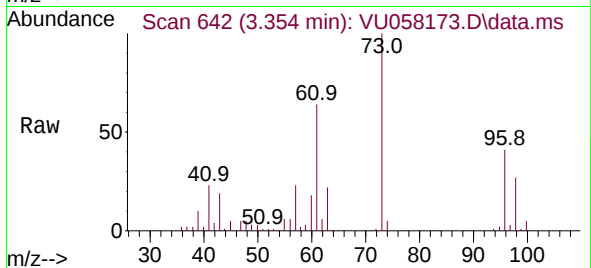




#17  
Methyl tert-butyl Ether  
Concen: 5.457 ug/L  
RT: 3.354 min Scan# 640  
Delta R.T. 0.007 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

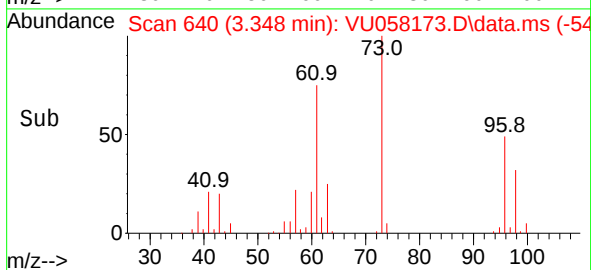
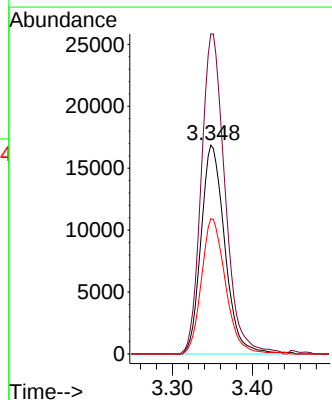
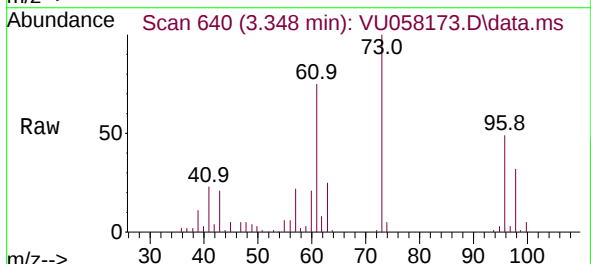
Instrument :  
MSVOA\_U  
ClientSampleId :

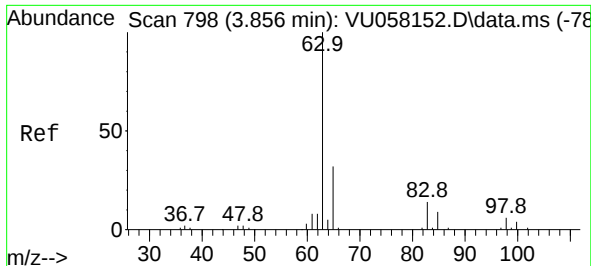
Tgt Ion: 73 Resp: 87460  
Ion Ratio Lower Upper  
73 100  
43 20.8 16.2 24.4  
57 22.5 17.9 26.9



#18  
trans-1,2-Dichloroethene  
Concen: 4.724 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

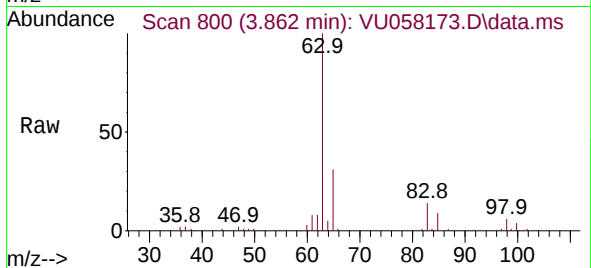
Tgt Ion: 96 Resp: 34875  
Ion Ratio Lower Upper  
96 100  
61 153.2 107.7 199.9  
98 64.8 45.8 85.0



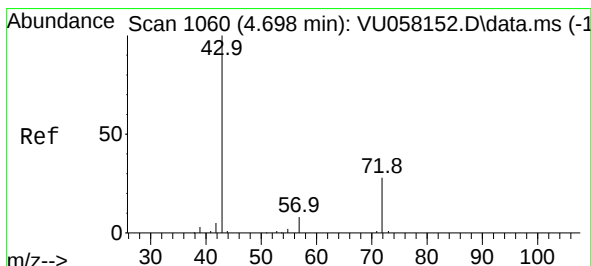
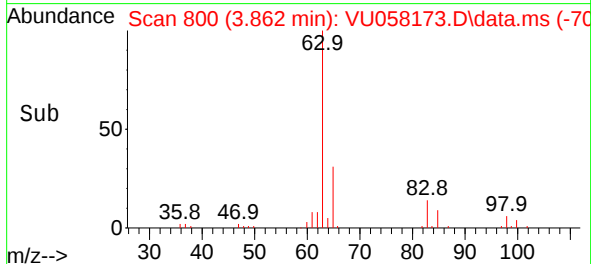
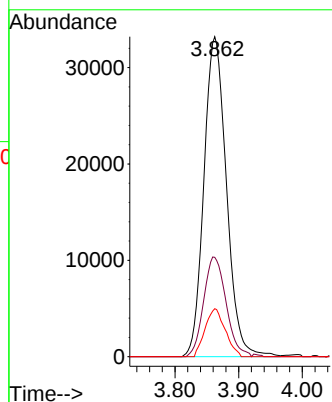


#19  
1,1-Dichloroethane  
Concen: 5.553 ug/L  
RT: 3.862 min Scan# 80  
Delta R.T. 0.007 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Instrument :  
MSVOA\_U  
ClientSampleId :

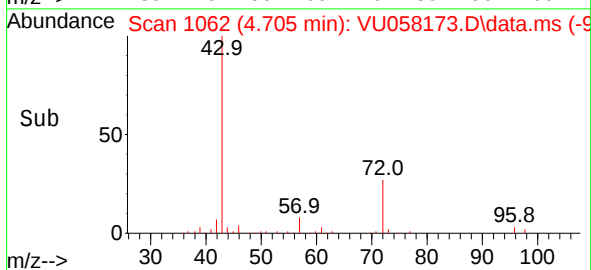
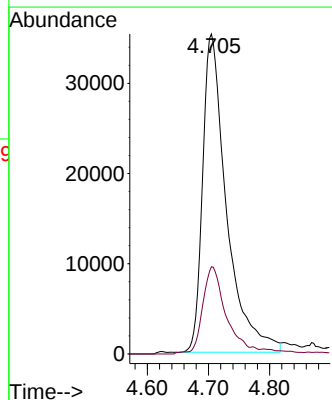
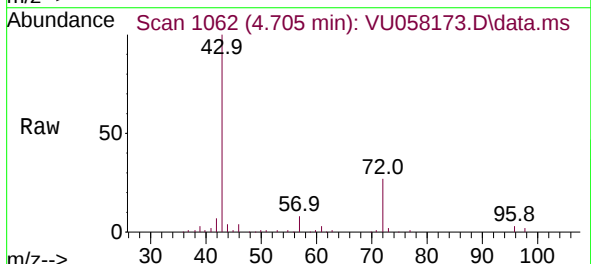


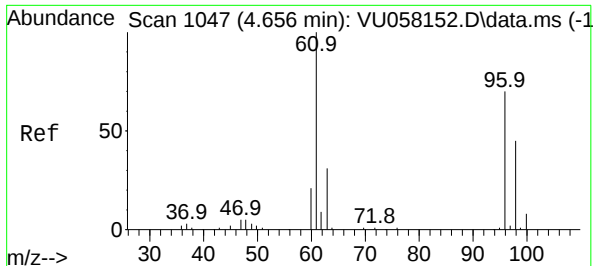
Tgt Ion: 63 Resp: 81769  
Ion Ratio Lower Upper  
63 100  
65 31.6 22.1 41.1  
83 15.0 9.0 16.6



#21  
2-Butanone  
Concen: 61.417 ug/L  
RT: 4.705 min Scan# 1062  
Delta R.T. 0.007 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 43 Resp: 95898  
Ion Ratio Lower Upper  
43 100  
72 26.9 13.0 39.0

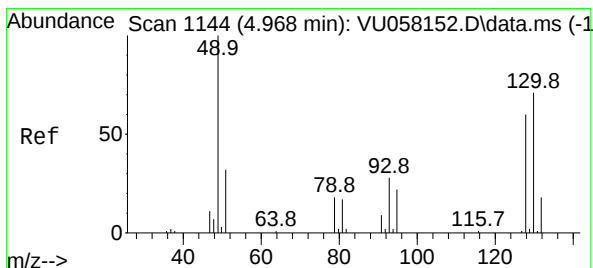
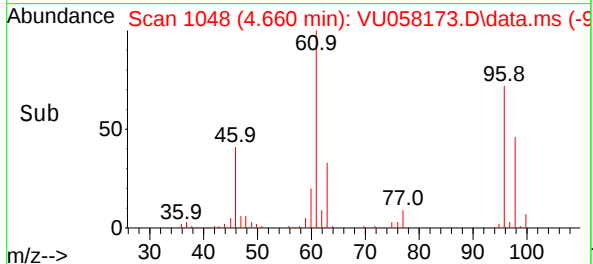
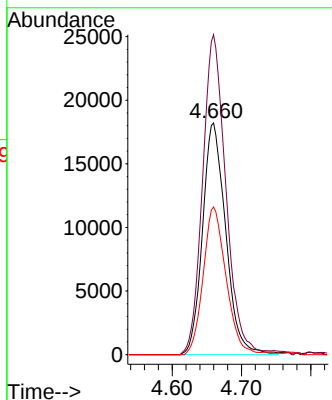
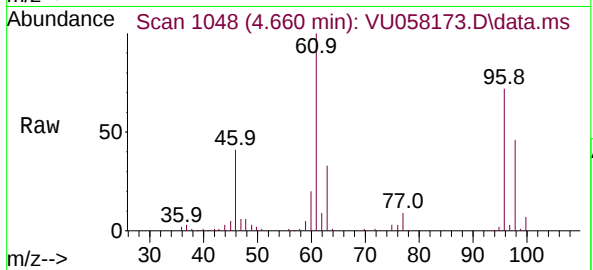




#22  
cis-1,2-Dichloroethene  
Concen: 5.212 ug/L  
RT: 4.660 min Scan# 1047  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

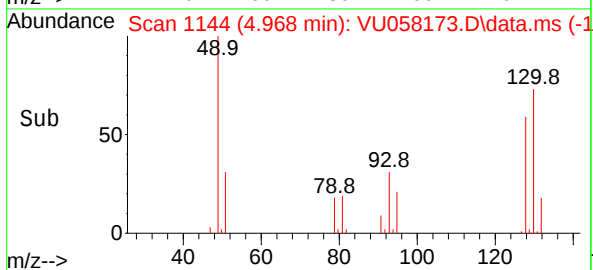
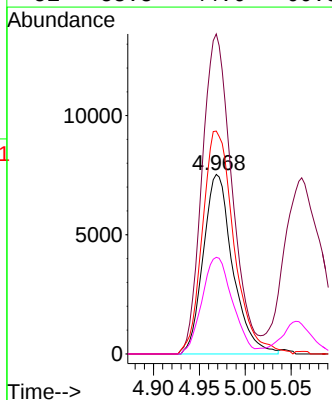
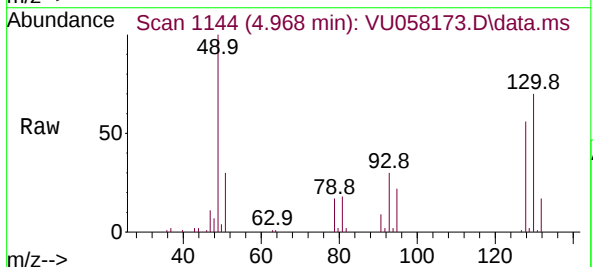
Instrument :  
MSVOA\_U  
ClientSampleId :

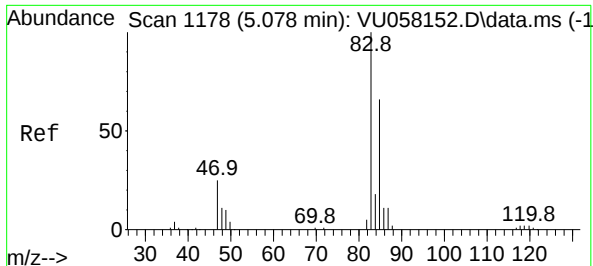
Tgt Ion: 96 Resp: 42322  
Ion Ratio Lower Upper  
96 100  
61 138.1 97.2 180.4  
98 63.8 45.5 84.5



#23  
Bromochloromethane  
Concen: 5.570 ug/L  
RT: 4.968 min Scan# 1144  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion:128 Resp: 16797  
Ion Ratio Lower Upper  
128 100  
49 185.5 122.0 226.6  
130 124.2 86.6 160.8  
51 53.8 44.6 66.8

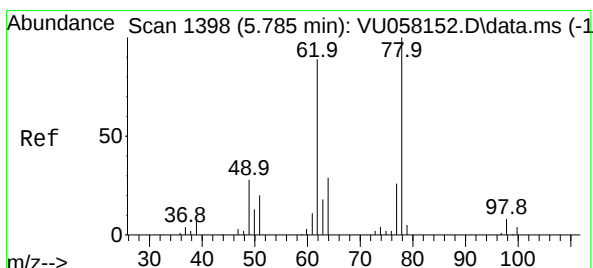
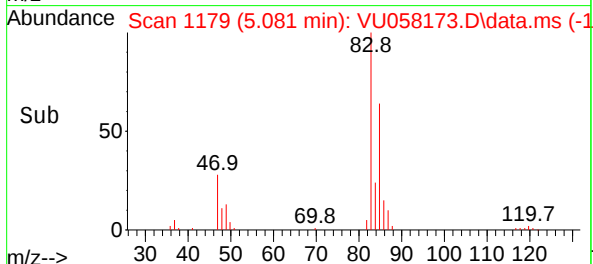
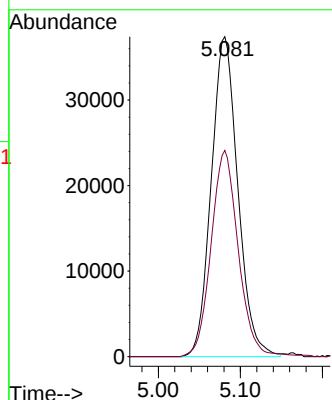
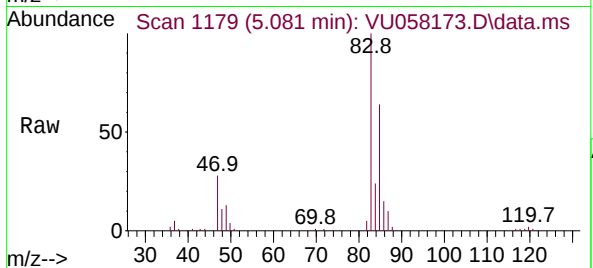




#25  
Chloroform  
Concen: 5.611 ug/L  
RT: 5.081 min Scan# 1178  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

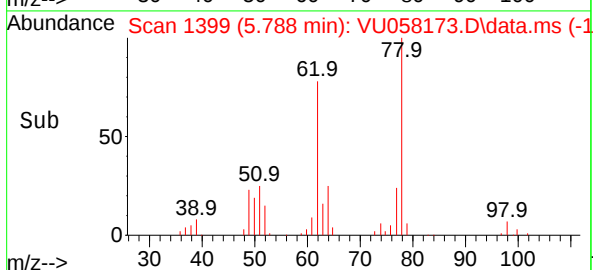
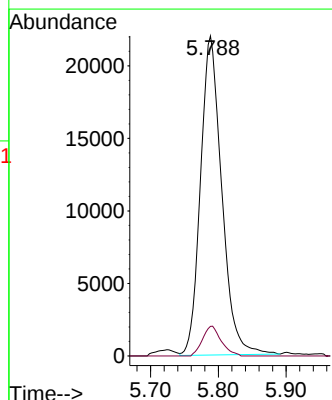
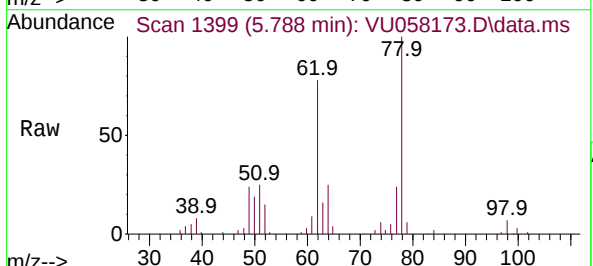
Instrument :  
MSVOA\_U  
ClientSampleId :

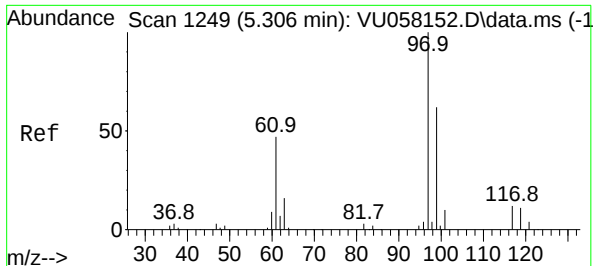
Tgt Ion: 83 Resp: 84349  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 5.758 ug/L  
RT: 5.788 min Scan# 1399  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 62 Resp: 47925  
Ion Ratio Lower Upper  
62 100  
98 9.3 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 5.150 ug/L

RT: 5.309 min Scan# 1249

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :

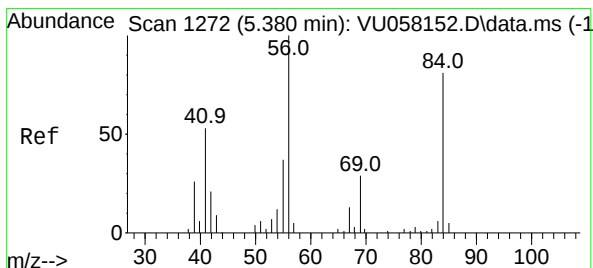
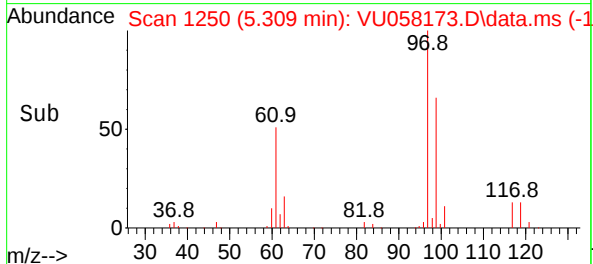
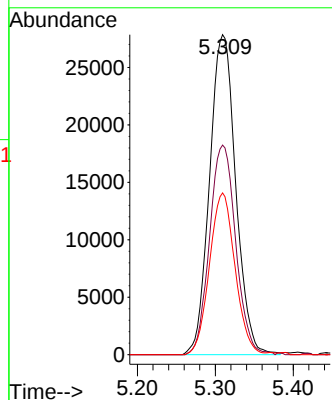
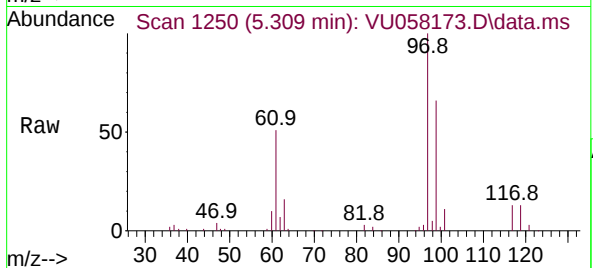
Tgt Ion: 97 Resp: 65076

Ion Ratio Lower Upper

97 100

99 65.4 51.2 76.8

61 49.3 37.4 56.2



#30

Cyclohexane

Concen: 4.566 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

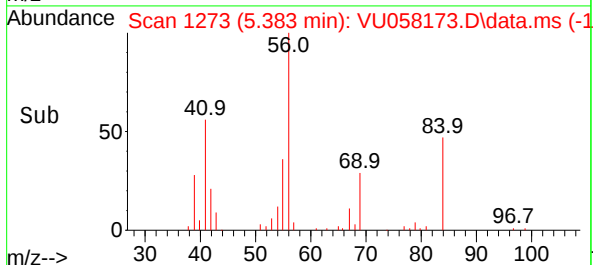
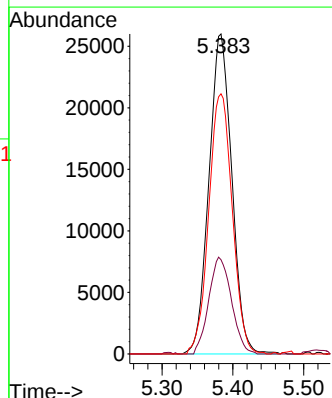
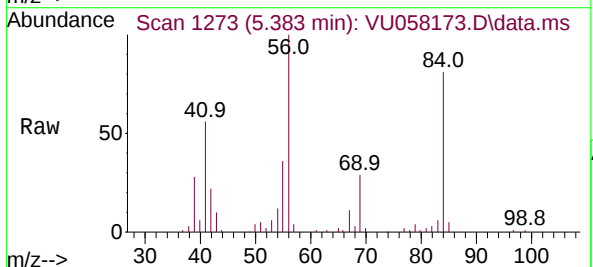
Tgt Ion: 56 Resp: 58250

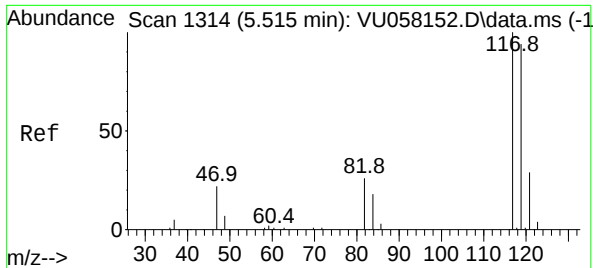
Ion Ratio Lower Upper

56 100

69 30.0 24.2 36.2

84 83.8 66.6 99.8

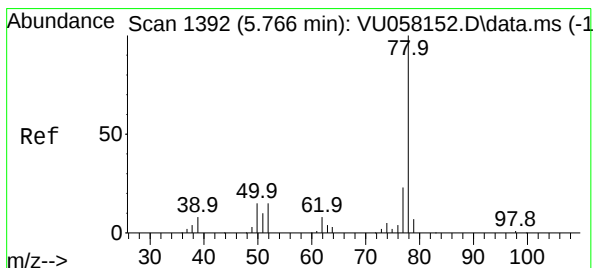
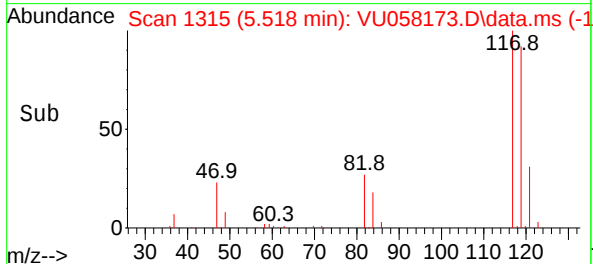
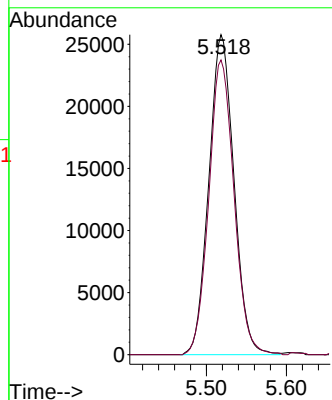
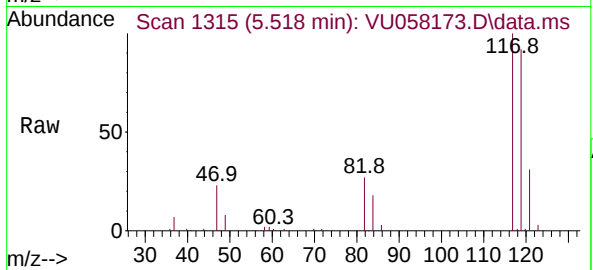




#31  
Carbon tetrachloride  
Concen: 5.126 ug/L  
RT: 5.518 min Scan# 1314  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

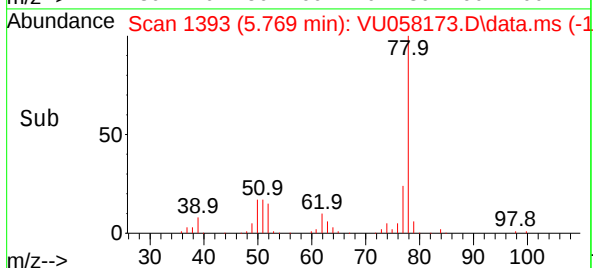
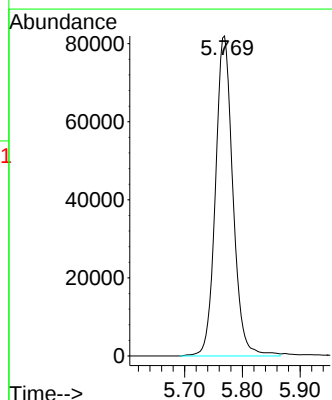
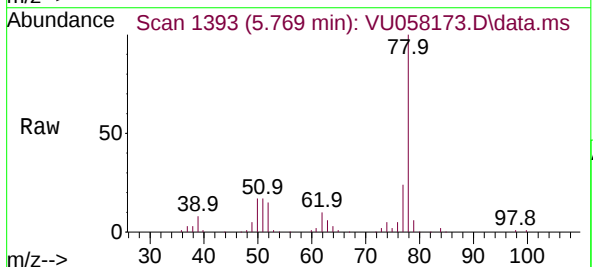
Instrument :  
MSVOA\_U  
ClientSampleId :

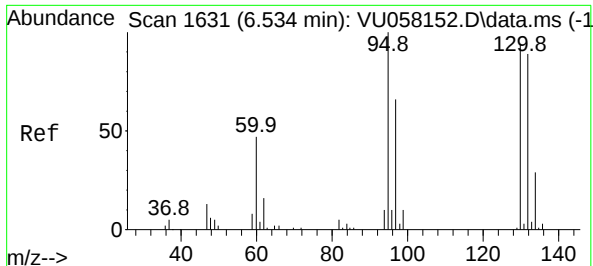
Tgt Ion:117 Resp: 56281  
Ion Ratio Lower Upper  
117 100  
119 92.5 75.8 113.8



#33  
Benzene  
Concen: 5.282 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 78 Resp: 172049

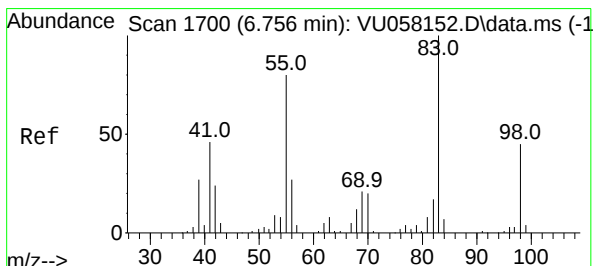
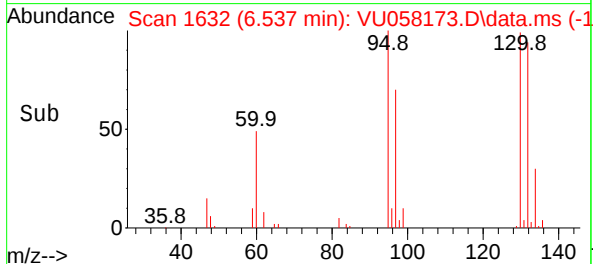
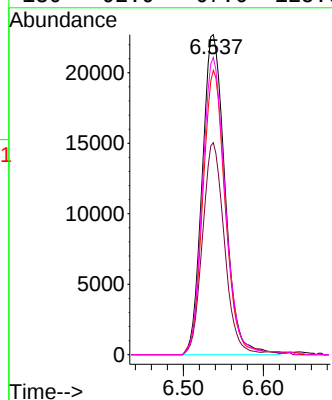
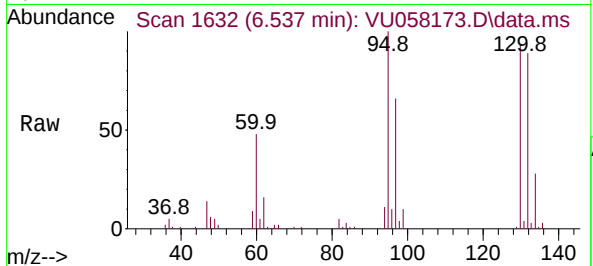




#34  
Trichloroethene  
Concen: 5.263 ug/L  
RT: 6.537 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

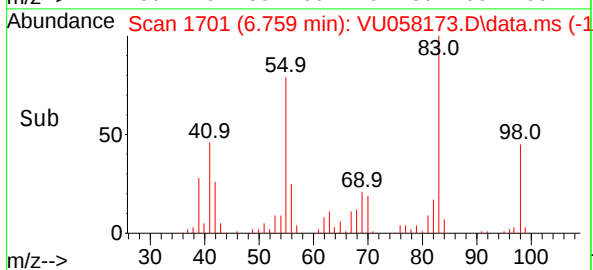
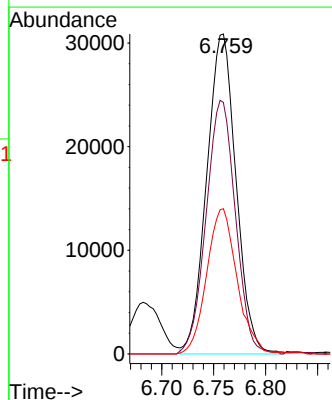
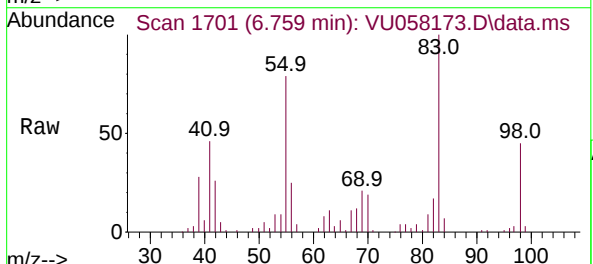
Instrument :  
MSVOA\_U  
ClientSampleId :

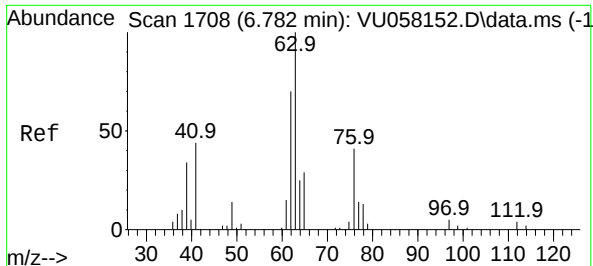
Tgt Ion: 95 Resp: 45110  
Ion Ratio Lower Upper  
95 100  
97 66.3 45.3 84.1  
132 88.9 63.1 117.1  
130 92.9 67.6 125.6



#35  
Methylcyclohexane  
Concen: 4.612 ug/L  
RT: 6.759 min Scan# 1701  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 83 Resp: 60596  
Ion Ratio Lower Upper  
83 100  
55 79.1 63.0 94.6  
98 47.1 36.2 54.4

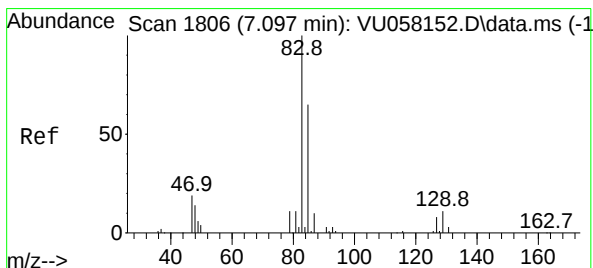
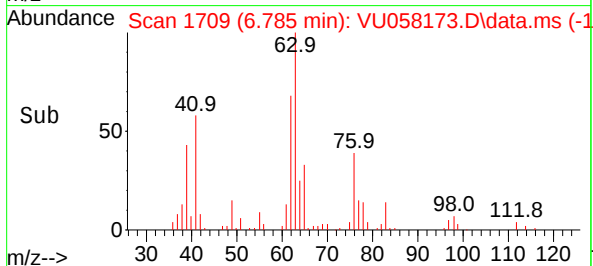
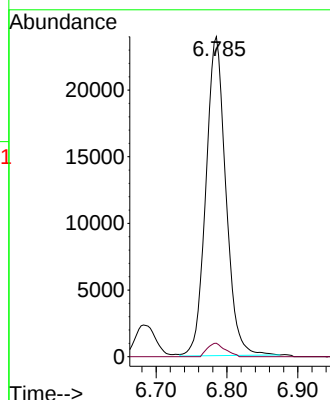
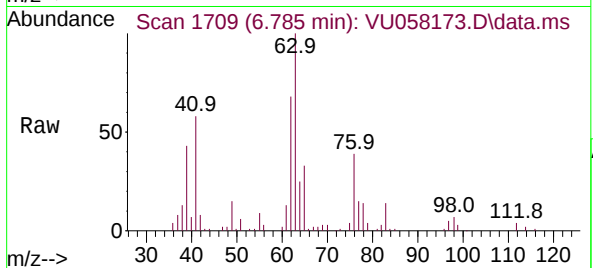




#37  
1,2-Dichloropropane  
Concen: 5.551 ug/L  
RT: 6.785 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

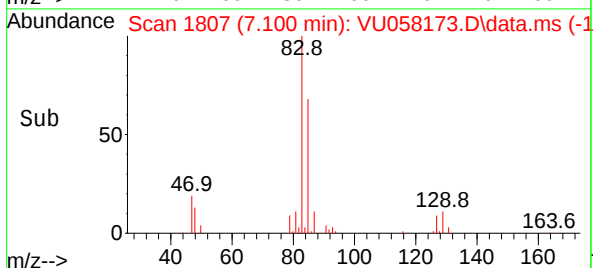
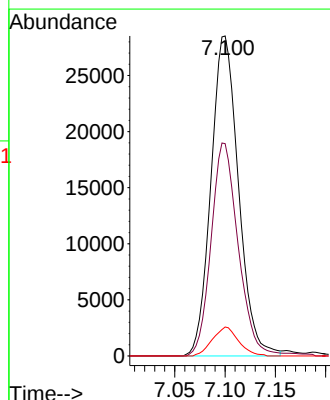
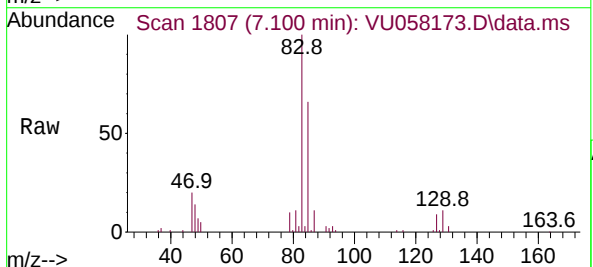
Instrument :  
MSVOA\_U  
ClientSampleId :

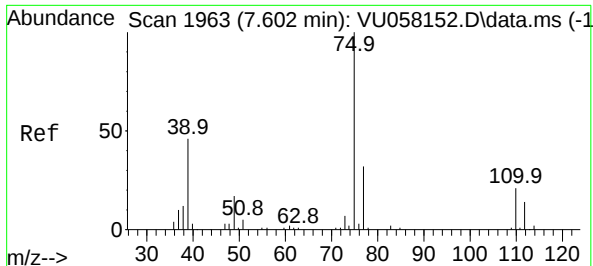
Tgt Ion: 63 Resp: 46627  
Ion Ratio Lower Upper  
63 100  
112 3.8 3.0 4.4



#38  
Bromodichloromethane  
Concen: 5.336 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 83 Resp: 54384  
Ion Ratio Lower Upper  
83 100  
85 66.3 44.5 82.7  
127 9.0 6.6 9.8

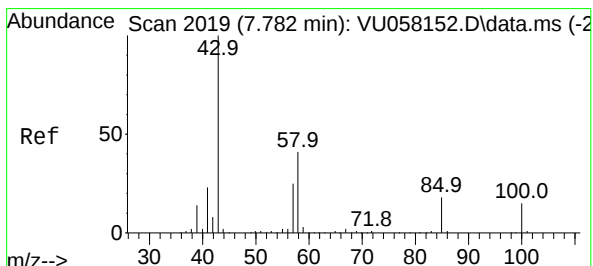
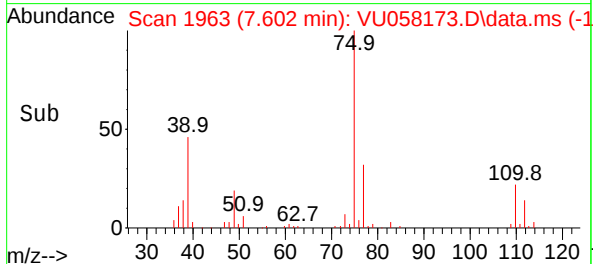
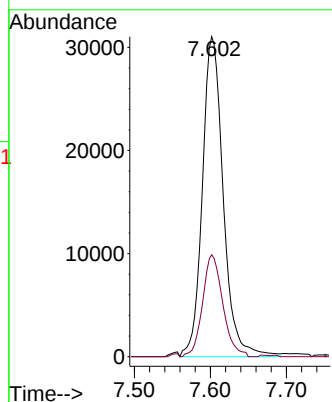
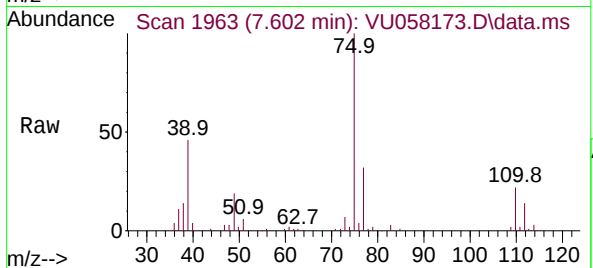




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.124 ug/L  
 RT: 7.602 min Scan# 1963  
 Delta R.T. 0.000 min  
 Lab File: VU058173.D  
 Acq: 20 Mar 2024 11:41

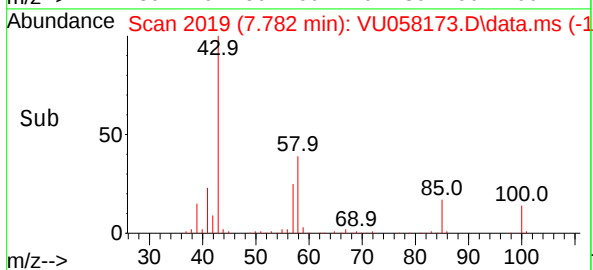
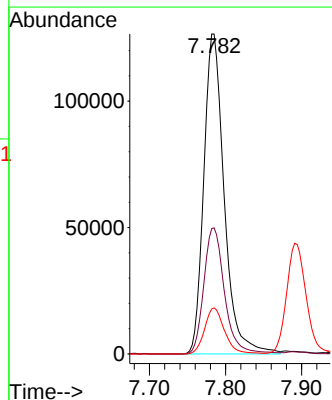
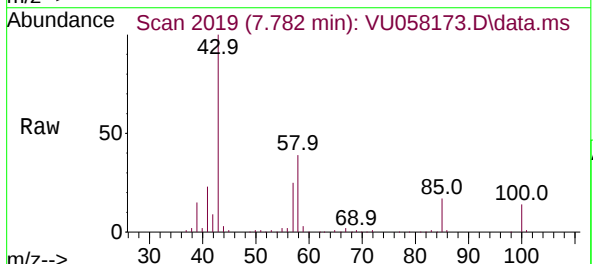
Instrument :  
 MSVOA\_U  
 ClientSampleId :

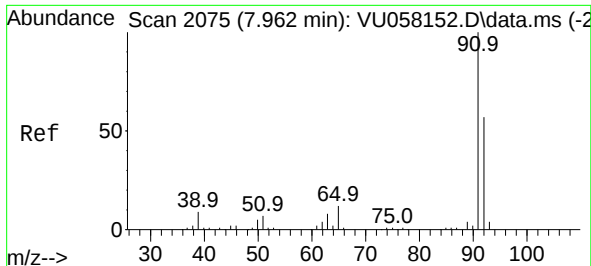
Tgt Ion: 75 Resp: 59305  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 61.118 ug/L  
 RT: 7.782 min Scan# 2019  
 Delta R.T. 0.000 min  
 Lab File: VU058173.D  
 Acq: 20 Mar 2024 11:41

Tgt Ion: 43 Resp: 236170  
 Ion Ratio Lower Upper  
 43 100  
 58 39.9 31.7 47.5  
 100 14.1 11.3 16.9





#42

Toluene

Concen: 5.242 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

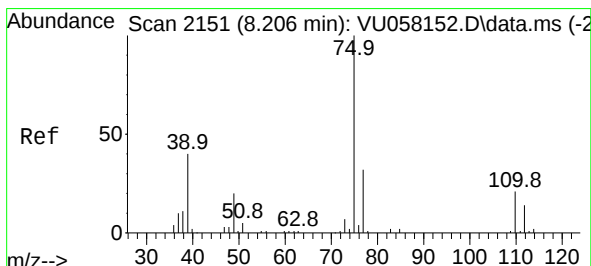
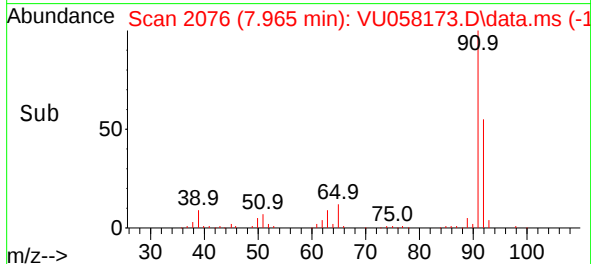
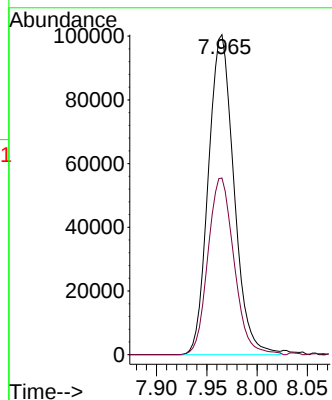
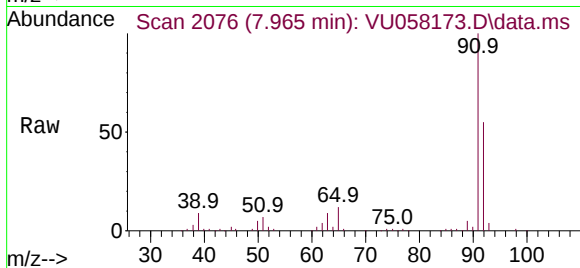
ClientSampleId :

Tgt Ion: 91 Resp: 177832

Ion Ratio Lower Upper

91 100

92 55.2 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 5.139 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. 0.000 min

Lab File: VU058173.D

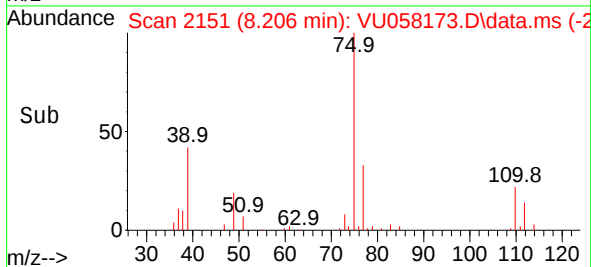
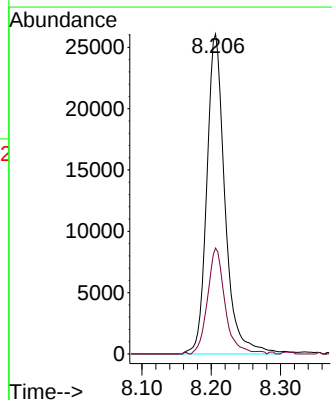
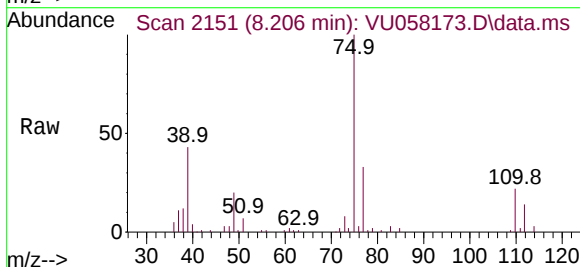
Acq: 20 Mar 2024 11:41

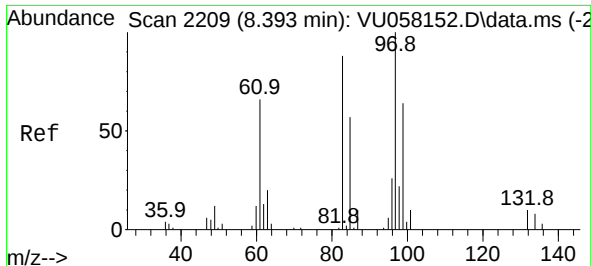
Tgt Ion: 75 Resp: 47399

Ion Ratio Lower Upper

75 100

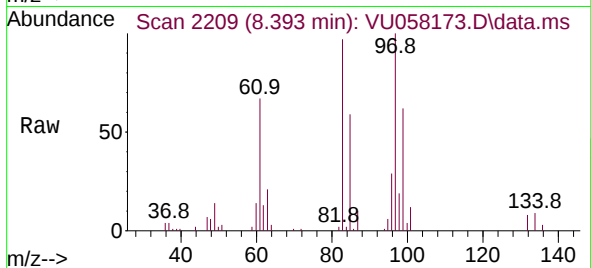
77 33.1 23.1 42.9



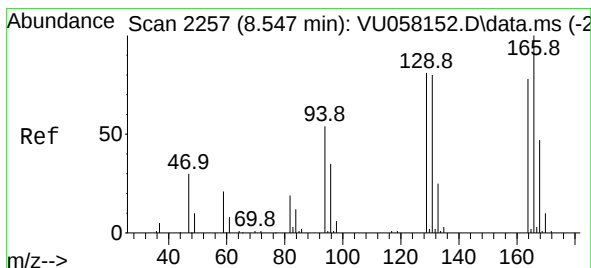
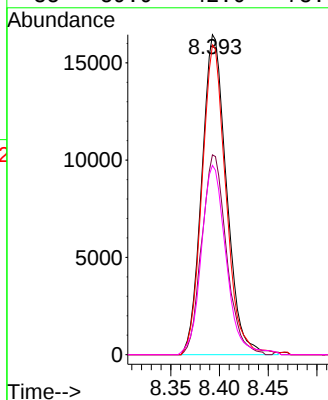
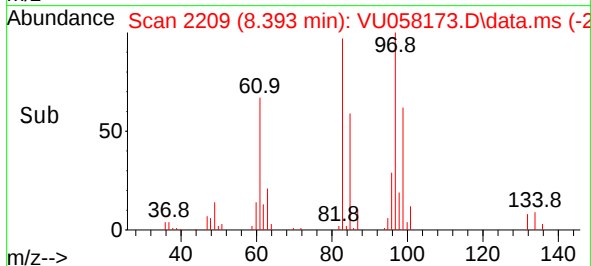


#45  
1,1,2-Trichloroethane  
Concen: 5.833 ug/L  
RT: 8.393 min Scan# 2209  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

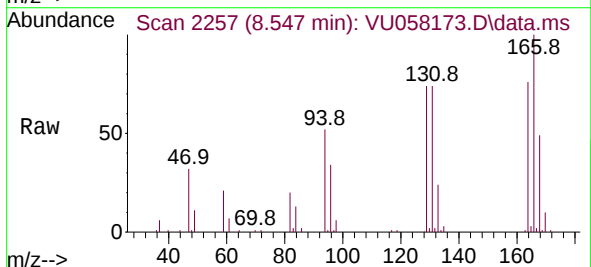
Instrument :  
MSVOA\_U  
ClientSampleId :



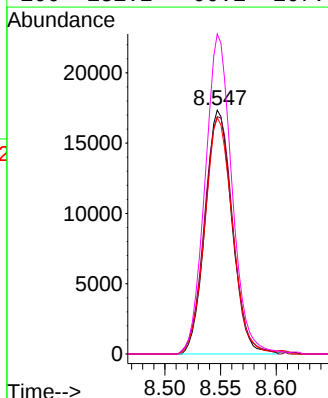
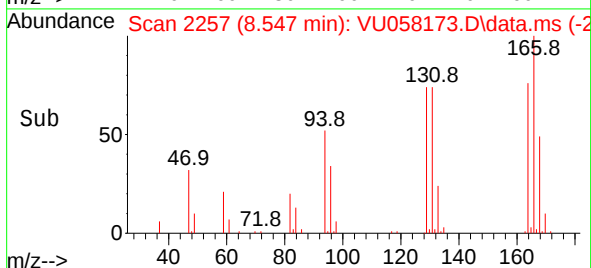
| Tgt Ion: | 97    | Resp: | 29054 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.5  | 44.2  | 82.2  |
| 83       | 96.8  | 64.2  | 119.2 |
| 85       | 59.9  | 42.0  | 78.0  |

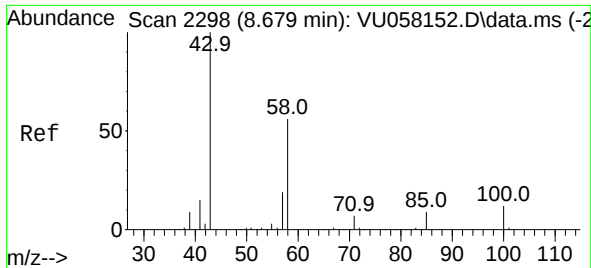


#47  
Tetrachloroethene  
Concen: 4.903 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41



| Tgt Ion: | 164   | Resp: | 29157 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.3  | 69.3  | 128.7 |
| 131      | 96.9  | 69.9  | 129.9 |
| 166      | 131.2 | 90.1  | 167.3 |



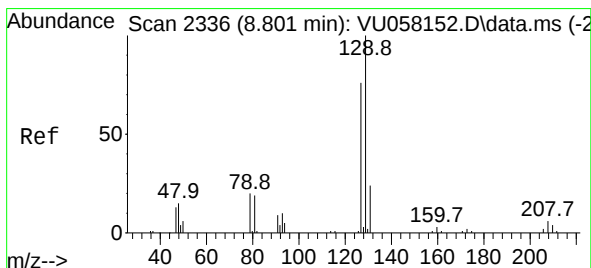
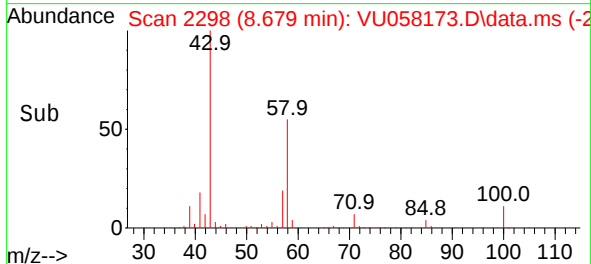
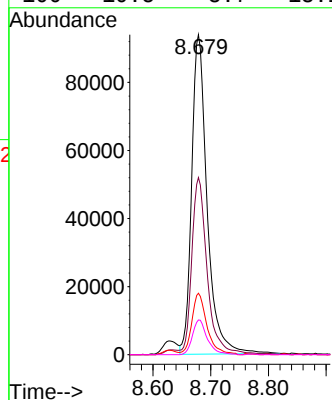
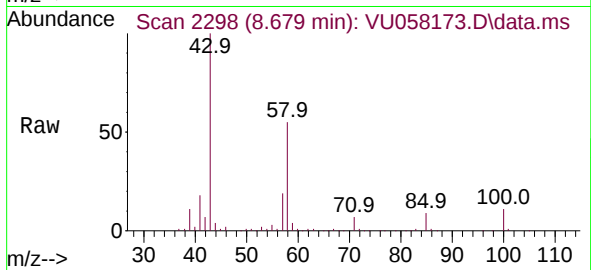


#48  
2-Hexanone  
Concen: 61.596 ug/L  
RT: 8.679 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 43 Resp: 174550

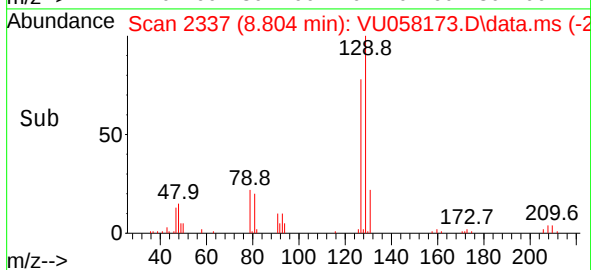
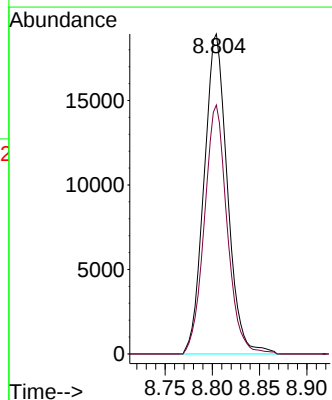
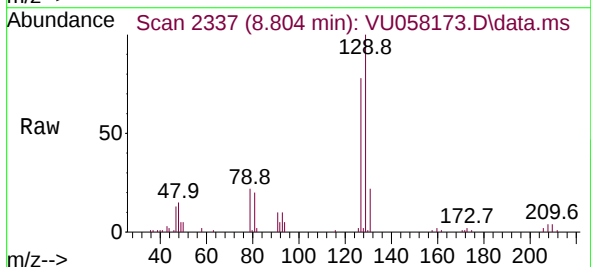
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 54.2  | 43.3  | 64.9  |
| 57  | 18.9  | 15.2  | 22.8  |
| 100 | 10.5  | 8.7   | 13.1  |

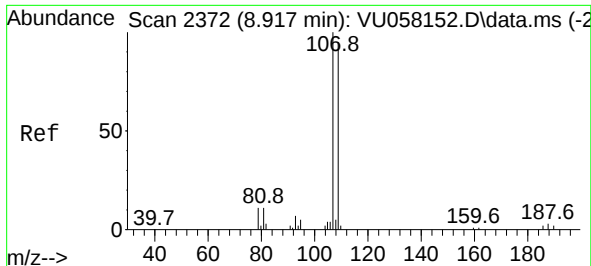


#49  
Dibromochloromethane  
Concen: 5.514 ug/L  
RT: 8.804 min Scan# 2337  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion: 129 Resp: 32508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.8  | 55.2  | 102.6 |





#50

1,2-Dibromoethane

Concen: 5.747 ug/L

RT: 8.917 min Scan# 2372

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :

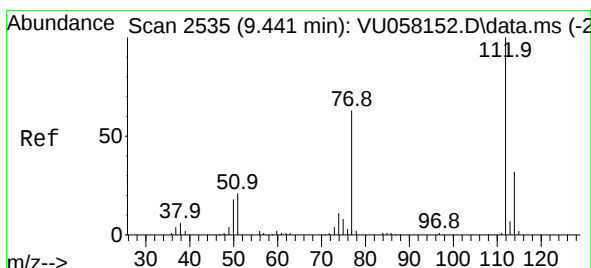
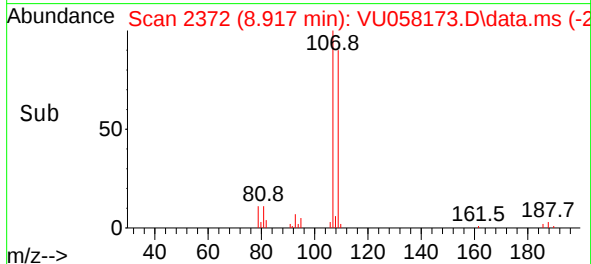
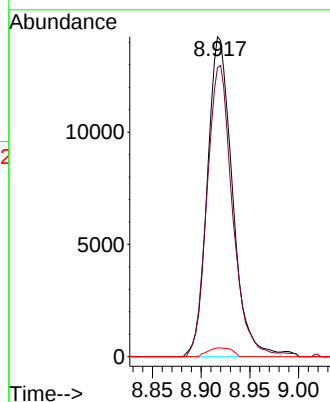
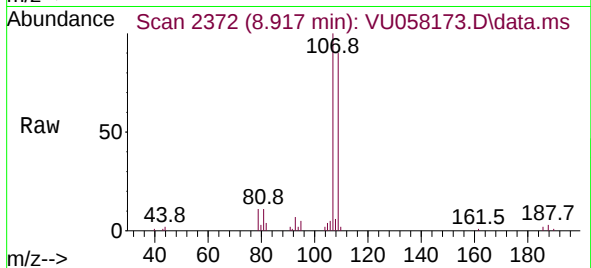
Tgt Ion:107 Resp: 25402

Ion Ratio Lower Upper

107 100

109 90.4 67.8 125.8

188 2.8 2.4 3.6



#51

Chlorobenzene

Concen: 5.259 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

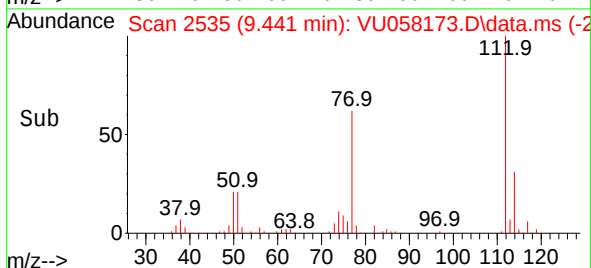
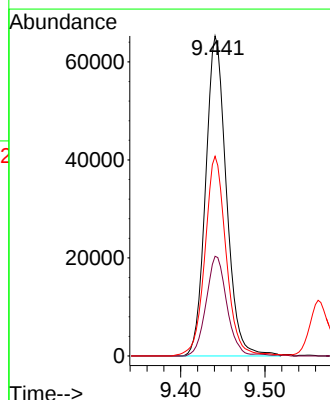
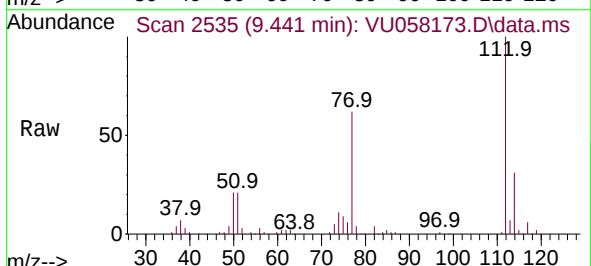
Tgt Ion:112 Resp: 111883

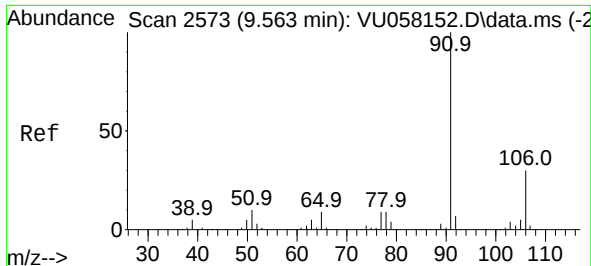
Ion Ratio Lower Upper

112 100

114 31.1 22.7 42.1

77 62.4 52.3 78.5

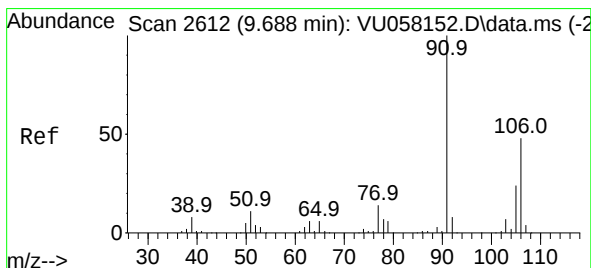
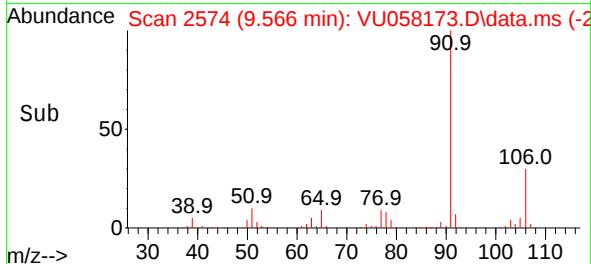
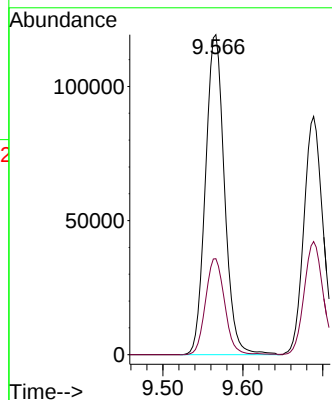
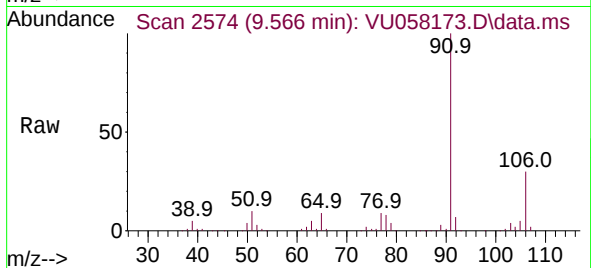




#52  
Ethylbenzene  
Concen: 5.206 ug/L  
RT: 9.566 min Scan# 2574  
Delta R.T. 0.003 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

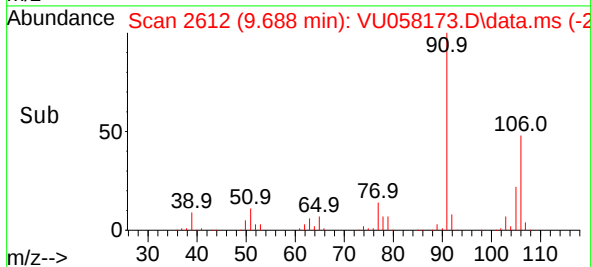
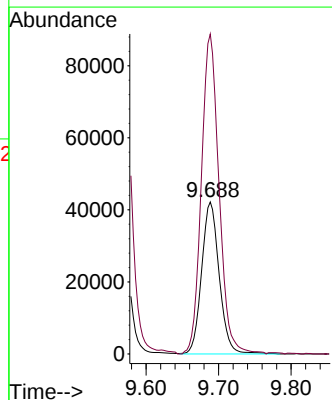
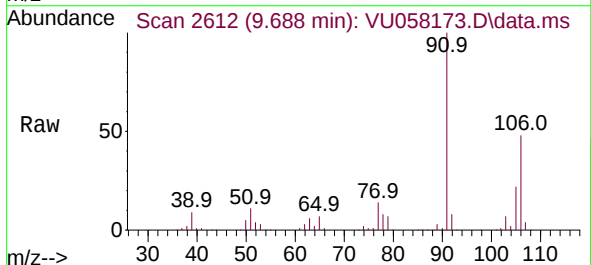
Instrument :  
MSVOA\_U  
ClientSampleId :

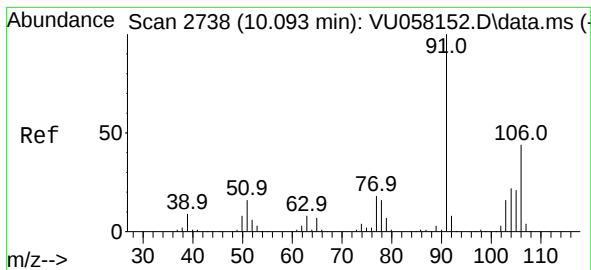
Tgt Ion: 91 Resp: 197619  
Ion Ratio Lower Upper  
91 100  
106 30.0 20.9 38.7



#53  
m,p-Xylene  
Concen: 5.237 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

Tgt Ion:106 Resp: 71024  
Ion Ratio Lower Upper  
106 100  
91 210.5 148.8 276.4





#54

o-Xylene

Concen: 5.225 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

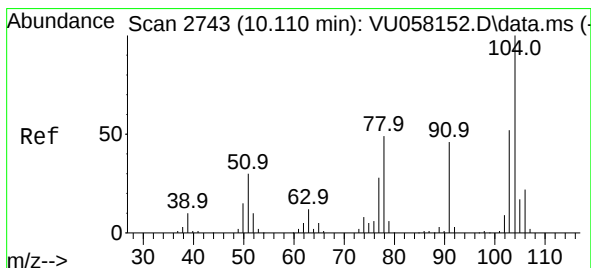
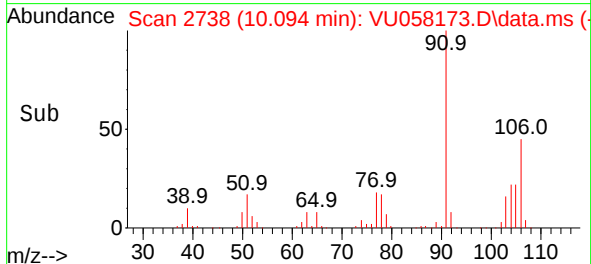
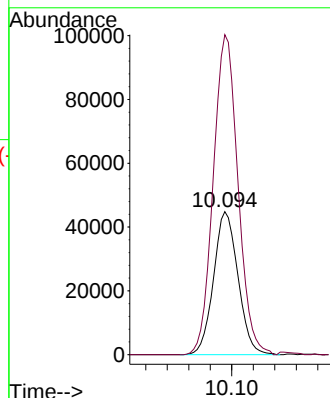
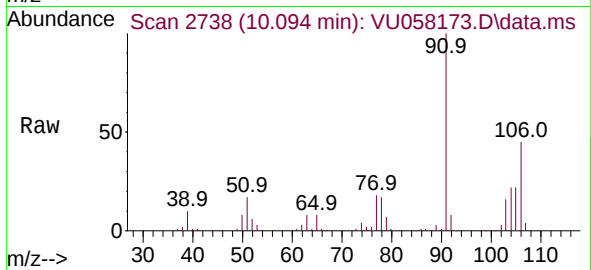
ClientSampleId :

Tgt Ion:106 Resp: 70627

Ion Ratio Lower Upper

106 100

91 223.8 158.3 294.1



#55

Styrene

Concen: 5.389 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. 0.000 min

Lab File: VU058173.D

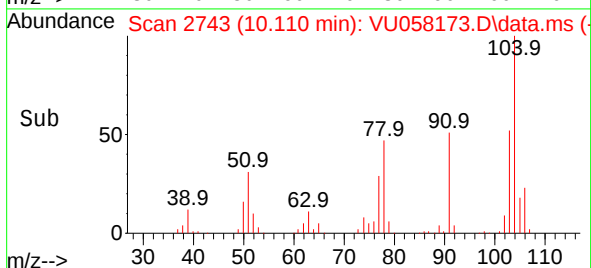
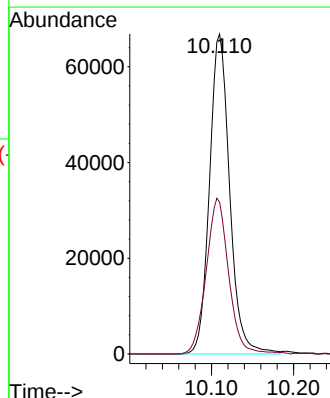
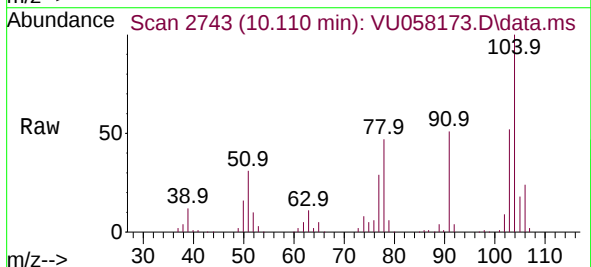
Acq: 20 Mar 2024 11:41

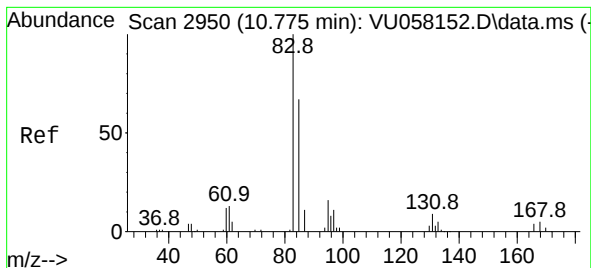
Tgt Ion:104 Resp: 114332

Ion Ratio Lower Upper

104 100

78 47.5 34.2 63.4





#57

1,1,2,2-Tetrachloroethane

Concen: 5.725 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :

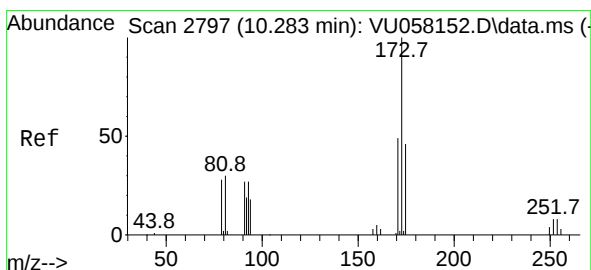
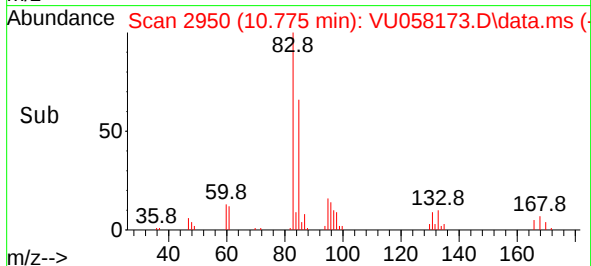
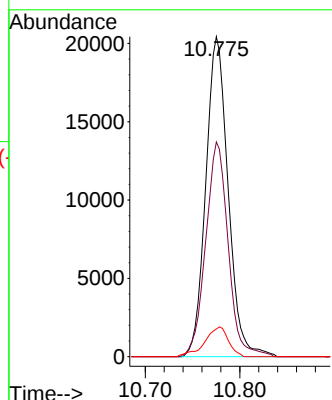
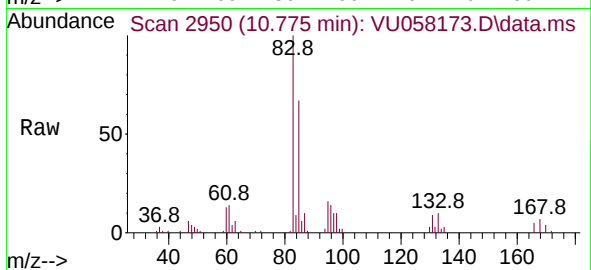
Tgt Ion: 83 Resp: 33590

Ion Ratio Lower Upper

83 100

85 67.1 44.0 81.6

131 8.7 6.9 10.3



#59

Bromoform

Concen: 5.667 ug/L

RT: 10.286 min Scan# 2798

Delta R.T. 0.003 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

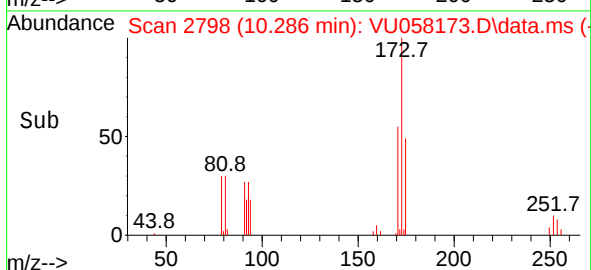
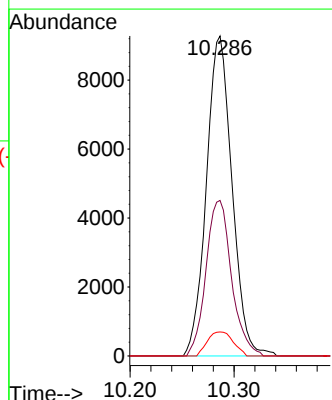
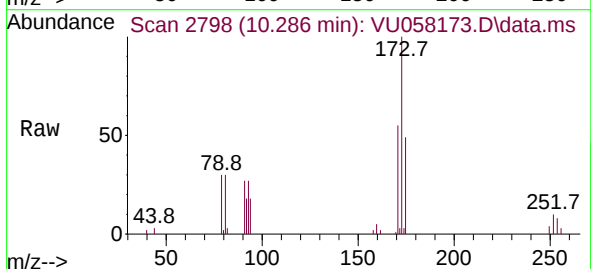
Tgt Ion:173 Resp: 15913

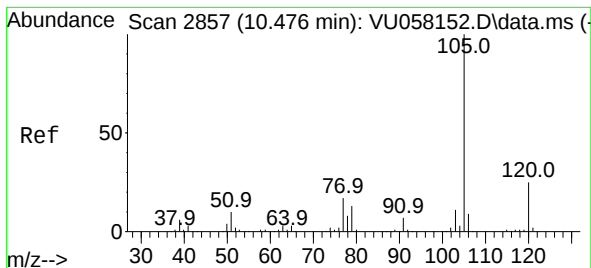
Ion Ratio Lower Upper

173 100

175 48.5 38.6 57.8

254 7.6 7.3 10.9





#60

Isopropylbenzene

Concen: 5.468 ug/L

RT: 10.476 min Scan# 2857

Delta R.T. 0.000 min

Lab File: VU058173.D

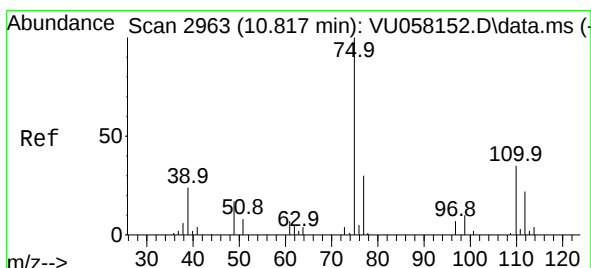
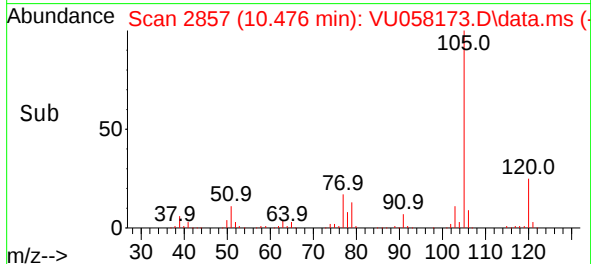
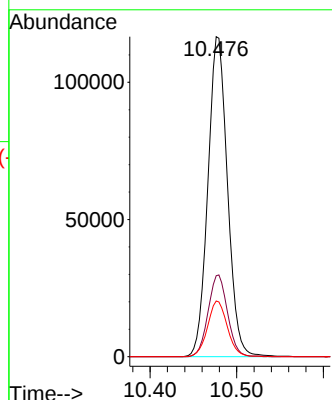
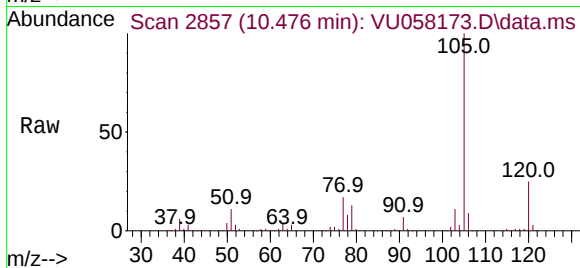
Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 183351 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 25.3  | 20.4  | 30.6   |
| 77        | 17.6  | 13.2  | 19.8   |



#61

1,2,3-Trichloropropane

Concen: 6.113 ug/L

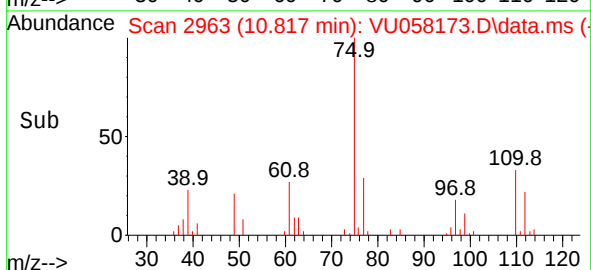
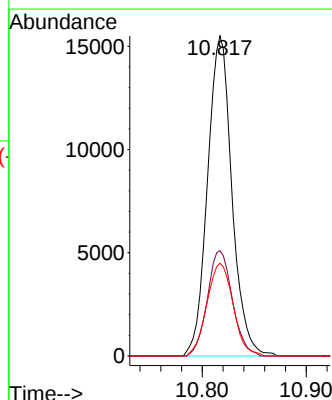
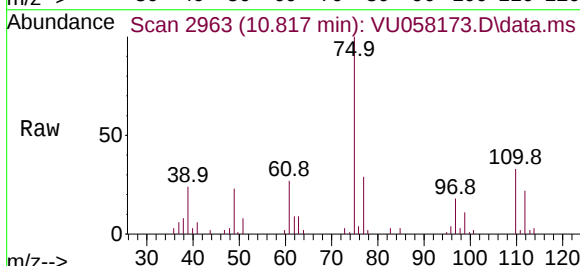
RT: 10.817 min Scan# 2963

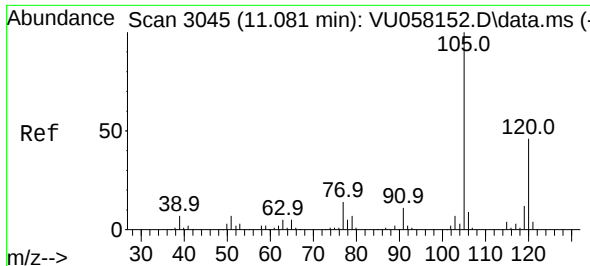
Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 25209 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 33.7  | 28.0  | 42.0  |
| 77        | 31.2  | 24.7  | 37.1  |





#62

1,3,5-Trimethylbenzene

Concen: 5.287 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

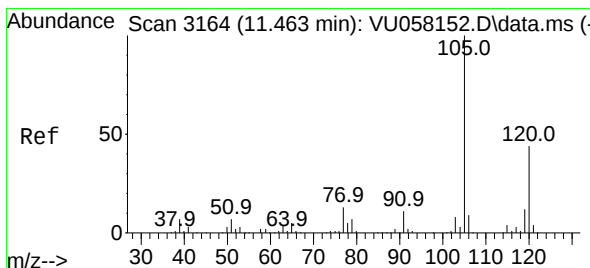
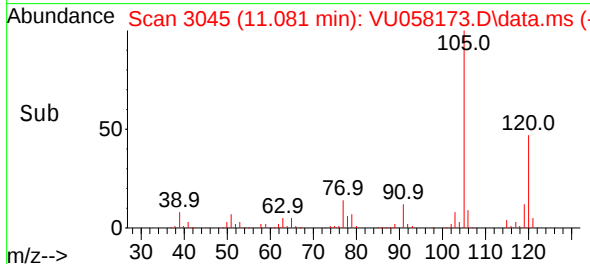
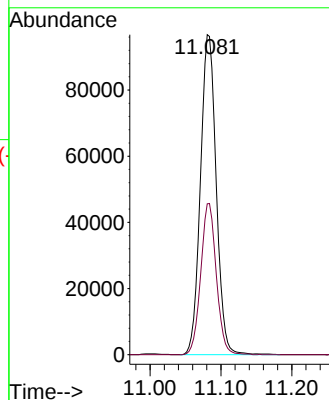
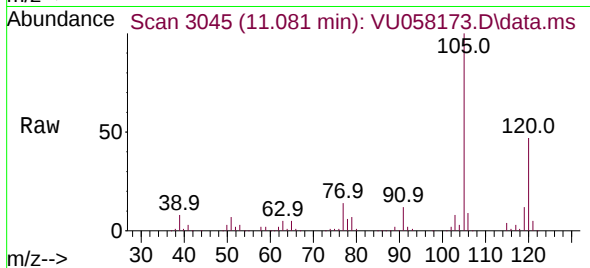
ClientSampleId :

Tgt Ion:105 Resp: 149530

Ion Ratio Lower Upper

105 100

120 46.5 37.1 55.7



#63

1,2,4-Trimethylbenzene

Concen: 5.437 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VU058173.D

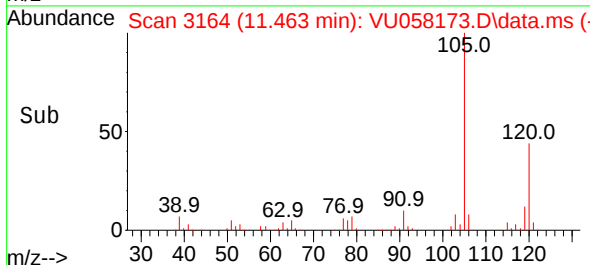
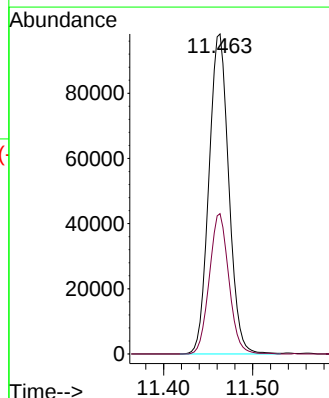
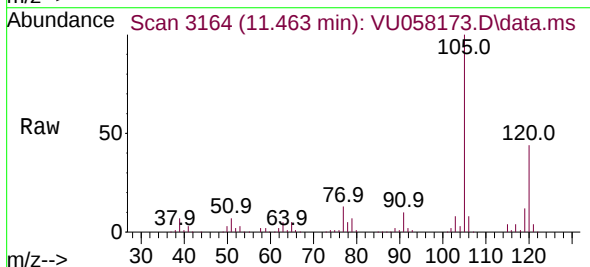
Acq: 20 Mar 2024 11:41

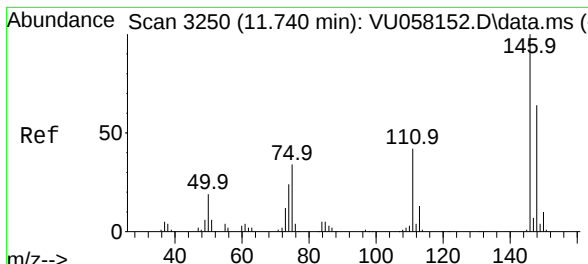
Tgt Ion:105 Resp: 151764

Ion Ratio Lower Upper

105 100

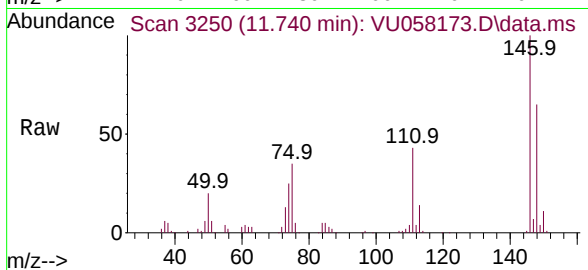
120 43.1 34.8 52.2



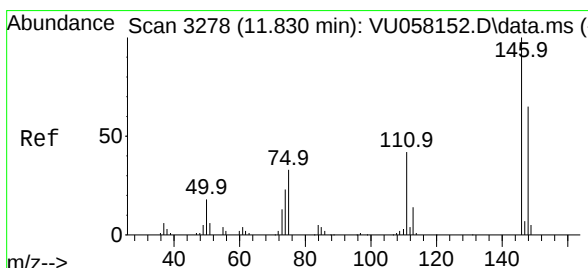
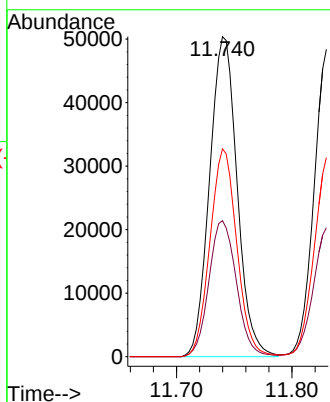
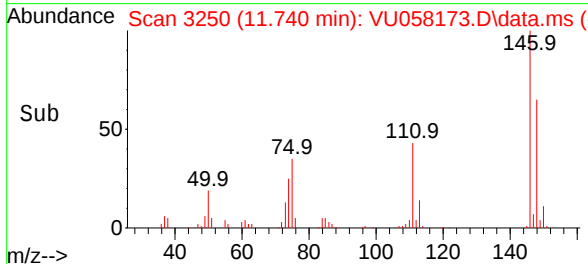


#64  
1,3-Dichlorobenzene  
Concen: 5.475 ug/L  
RT: 11.740 min Scan# 3250  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

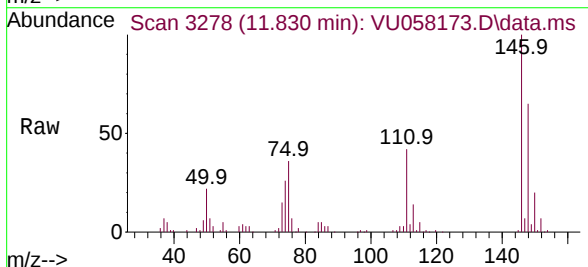
Instrument :  
MSVOA\_U  
ClientSampleId :



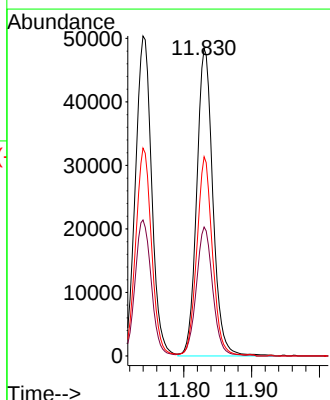
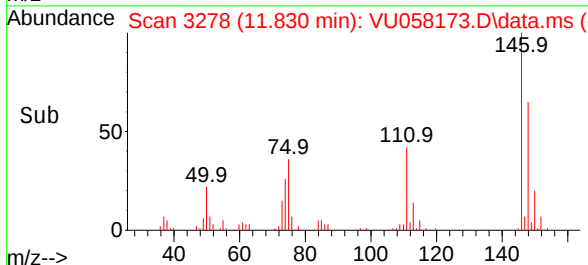
Tgt Ion:146 Resp: 83449  
Ion Ratio Lower Upper  
146 100  
111 42.5 30.9 57.5  
148 64.9 45.4 84.4

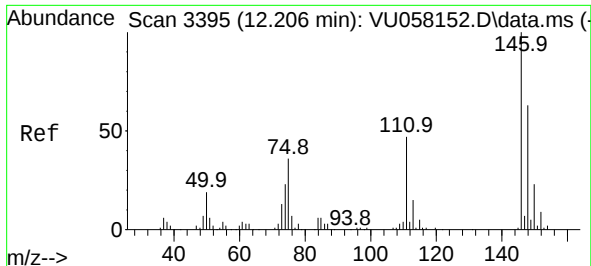


#65  
1,4-Dichlorobenzene  
Concen: 5.382 ug/L  
RT: 11.830 min Scan# 3278  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41



Tgt Ion:146 Resp: 80282  
Ion Ratio Lower Upper  
146 100  
111 41.9 30.1 55.9  
148 64.8 45.0 83.6





#67

1,2-Dichlorobenzene

Concen: 5.743 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

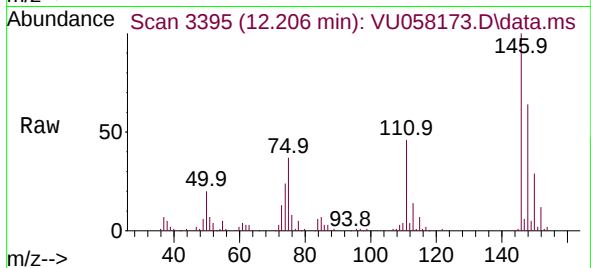
Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :



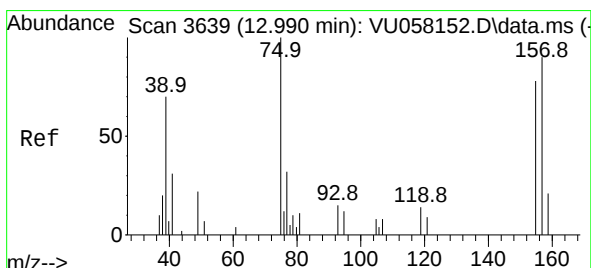
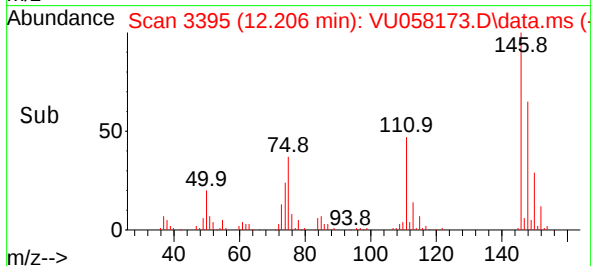
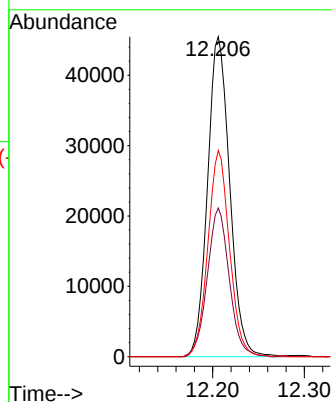
Tgt Ion:146 Resp: 76415

Ion Ratio Lower Upper

146 100

111 46.5 37.4 56.0

148 64.4 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 5.688 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

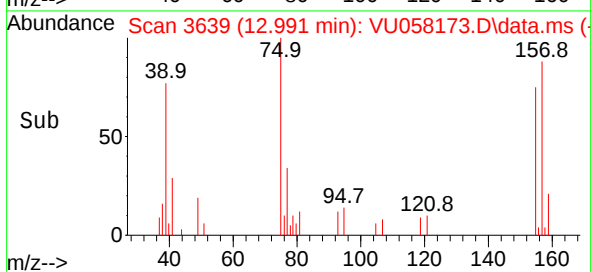
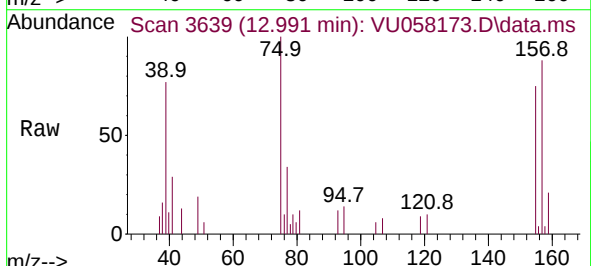
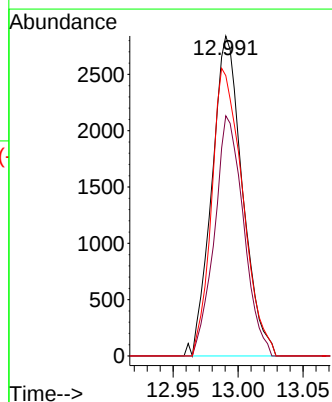
Tgt Ion: 75 Resp: 4654

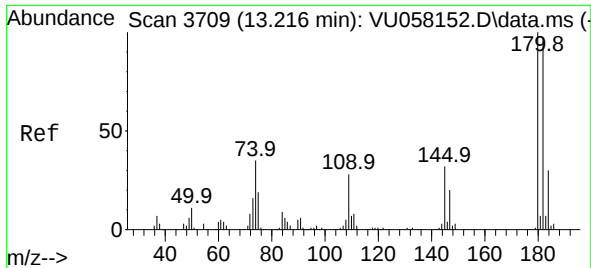
Ion Ratio Lower Upper

75 100

155 75.0 61.0 91.6

157 87.6 74.6 112.0





#69

1,3,5-Trichlorobenzene

Concen: 5.369 ug/L

RT: 13.212 min Scan# 3709

Delta R.T. -0.003 min

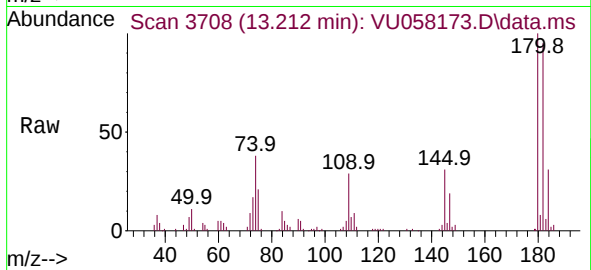
Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:180 Resp: 58860

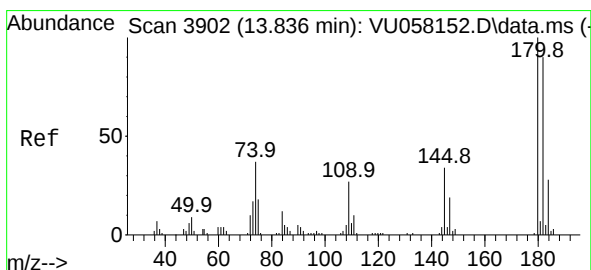
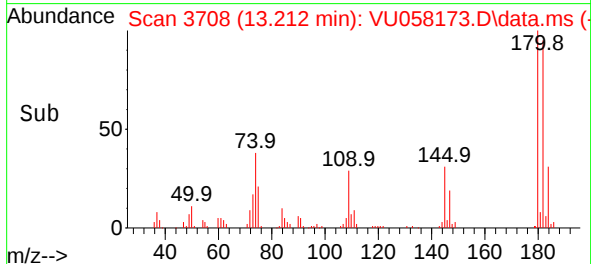
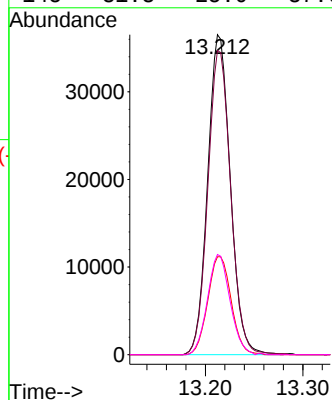
Ion Ratio Lower Upper

180 100

182 96.1 76.3 114.5

184 31.7 24.6 36.8

145 31.3 25.0 37.6



#70

1,2,4-trichlorobenzene

Concen: 5.221 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU058173.D

Acq: 20 Mar 2024 11:41

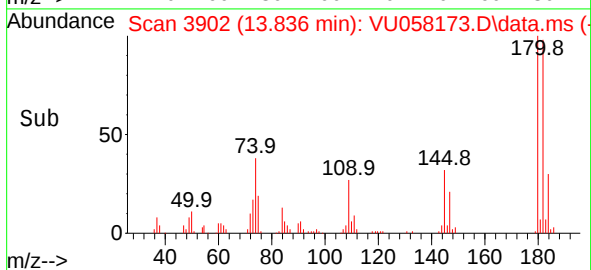
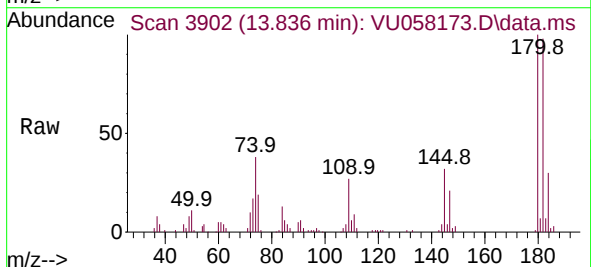
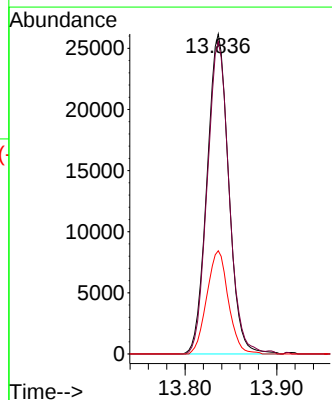
Tgt Ion:180 Resp: 43005

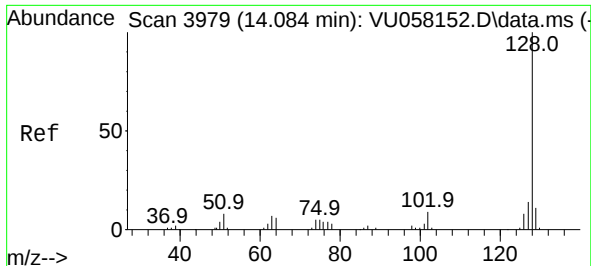
Ion Ratio Lower Upper

180 100

182 97.6 77.9 116.9

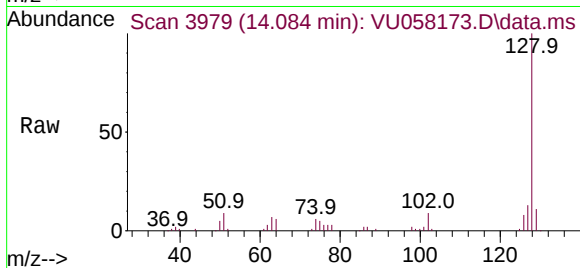
145 31.9 25.8 38.8



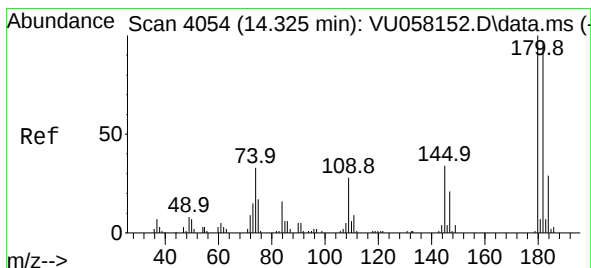
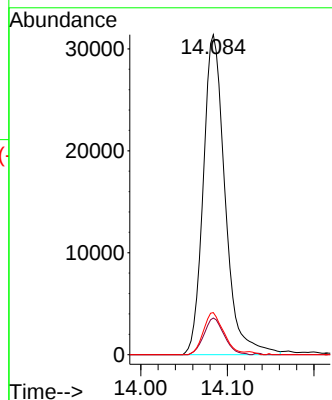
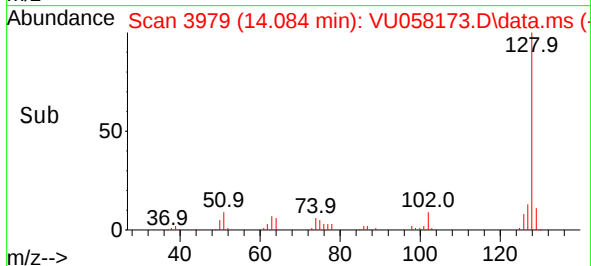


#71  
Naphthalene  
Concen: 4.891 ug/L  
RT: 14.084 min Scan# 3979  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41

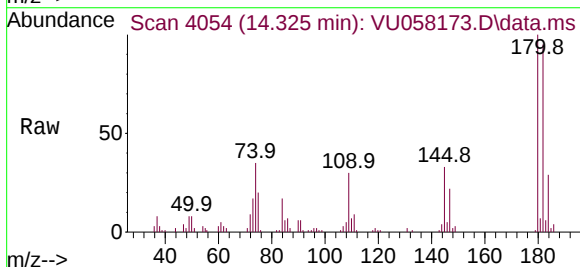
Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion:128 Resp: 55026  
Ion Ratio Lower Upper  
128 100  
129 10.6 9.0 13.6  
127 12.3 10.6 16.0



#72  
1,2,3-Trichlorobenzene  
Concen: 5.256 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. 0.000 min  
Lab File: VU058173.D  
Acq: 20 Mar 2024 11:41



Tgt Ion:180 Resp: 34197  
Ion Ratio Lower Upper  
180 100  
182 96.4 77.6 116.4  
145 33.5 28.7 43.1

