

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091223\  
 Data File : VN079240.D  
 Acq On : 12 Sep 2023 17:11  
 Operator : JC\MD  
 Sample : 04352-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 13 01:34:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 2023  
 Response via : Initial Calibration

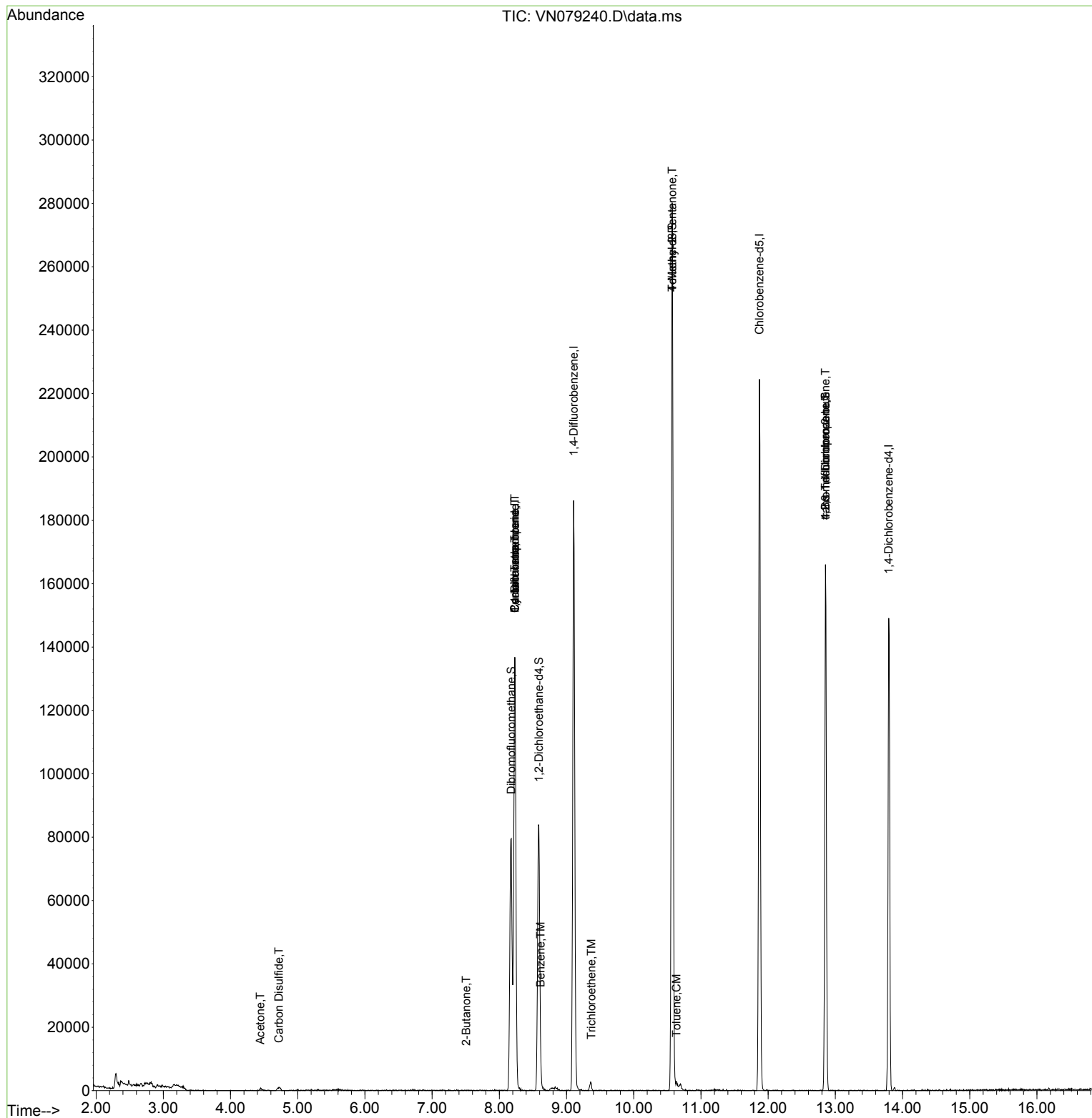
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 104723              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 163577              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 137932              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 44058               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.589          | 65   | 76168               | 53.880    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 107.760% |           |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 58319               | 53.598    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 107.200% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 201115              | 50.338    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.680% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 57224               | 44.902    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 89.800%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 6) Chloroethane               | 3.112          | 64   | 236                 | Below Cal | #      | 43       |
| 16) Acetone                   | 4.442          | 43   | 1209                | 2.014     | ug/l # | 40       |
| 17) Carbon Disulfide          | 4.718          | 76   | 2253                | 0.645     | ug/l # | 75       |
| 25) 2-Butanone                | 7.506          | 43   | 180                 | 0.207     | ug/l # | 37       |
| 31) Cyclohexane               | 8.230          | 56   | 1972                | 0.955     | ug/l # | 43       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 7419                | 4.424     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 10768               | 6.204     | ug/l # | 15       |
| 40) Benzene                   | 8.612          | 78   | 1700                | 0.331     | ug/l   | 96       |
| 44) Trichloroethene           | 9.371          | 130  | 1255                | 0.992     | ug/l   | 50       |
| 51) 4-Methyl-2-Pentanone      | 10.571         | 43   | 579                 | 0.365     | ug/l # | 1        |
| 52) Toluene                   | 10.635         | 92   | 1118                | 0.354     | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 29892               | 25.174    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 29892               | 69.208    | ug/l # | 15       |
| -----                         |                |      |                     |           |        |          |

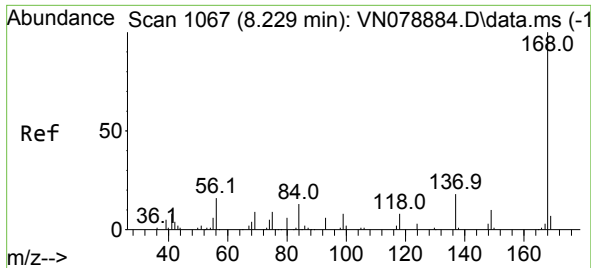
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091223\  
Data File : VN079240.D  
Acq On : 12 Sep 2023 17:11  
Operator : JC\MD  
Sample : 04352-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

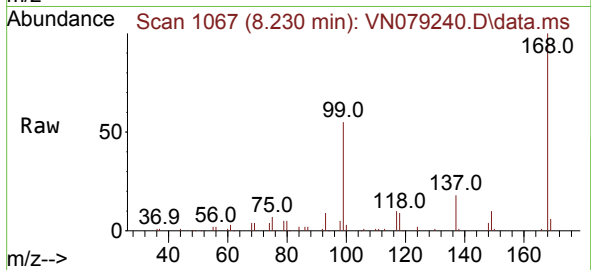
Quant Time: Sep 13 01:34:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 2023  
Response via : Initial Calibration



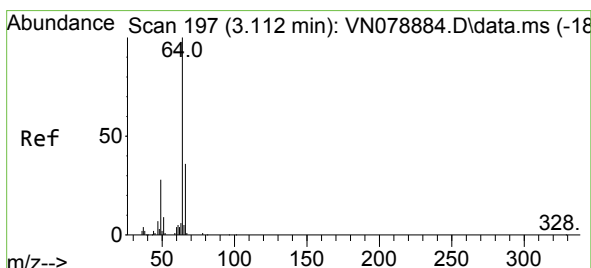
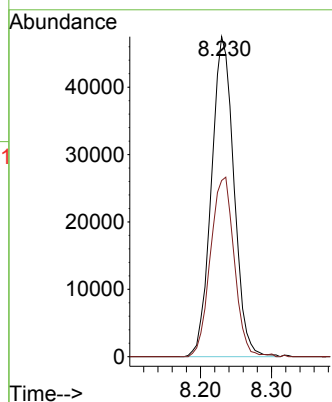
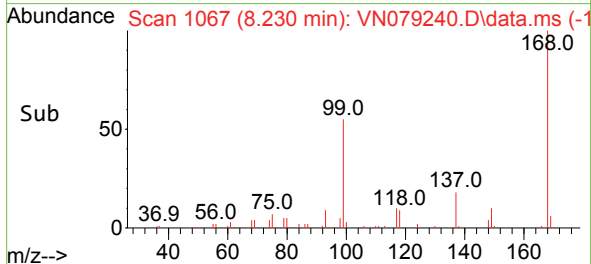


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.000 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Instrument :  
MSVOA\_N  
ClientSampleId :

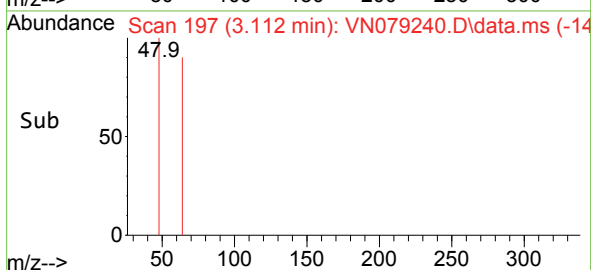
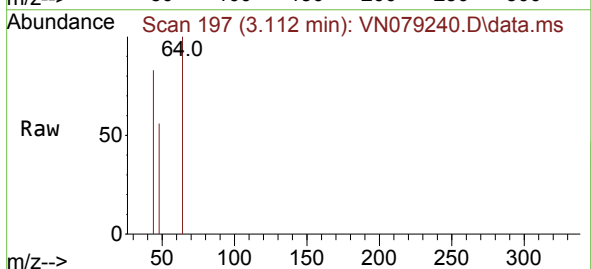


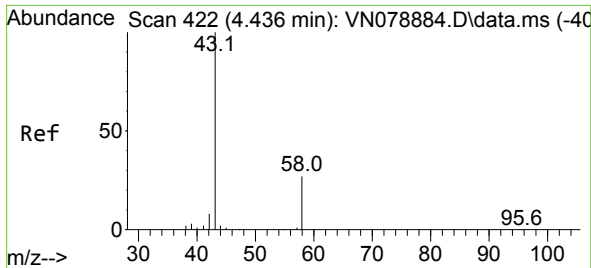
Tgt Ion:168 Resp: 104723  
Ion Ratio Lower Upper  
168 100  
99 55.0 53.0 79.6



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.112 min Scan# 197  
Delta R.T. -0.006 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Tgt Ion: 64 Resp: 236  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#





#16

Acetone

Concen: 2.014 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

Instrument :

MSVOA\_N

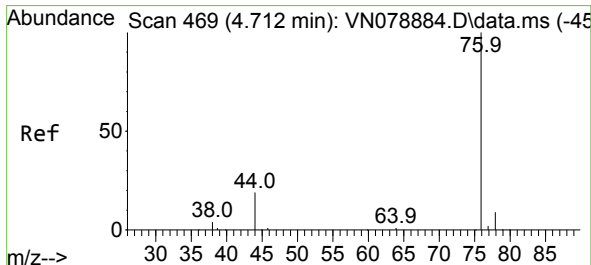
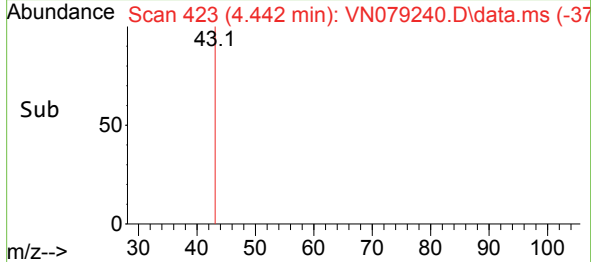
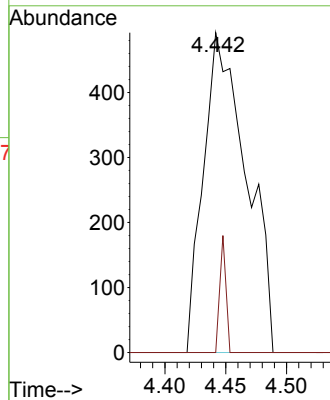
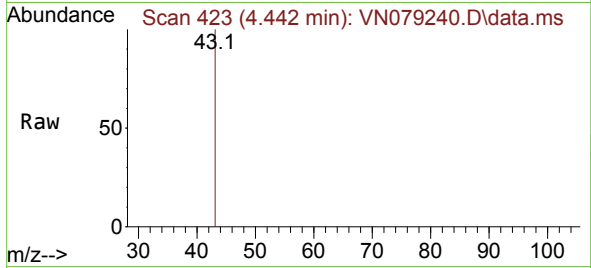
ClientSampleId :

Tgt Ion: 43 Resp: 1209

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



#17

Carbon Disulfide

Concen: 0.645 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.006 min

Lab File: VN079240.D

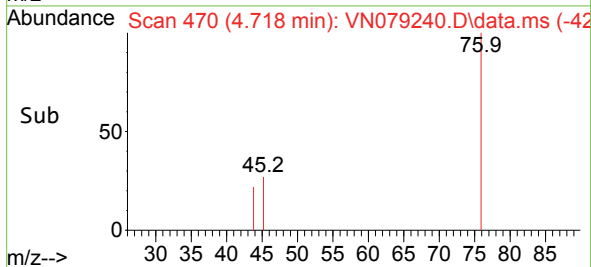
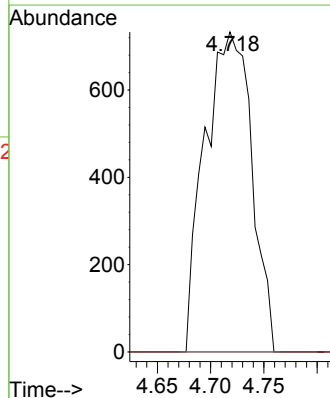
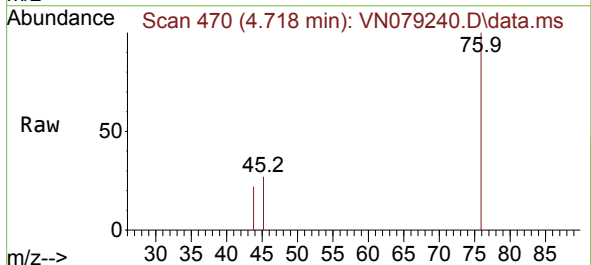
Acq: 12 Sep 2023 17:11

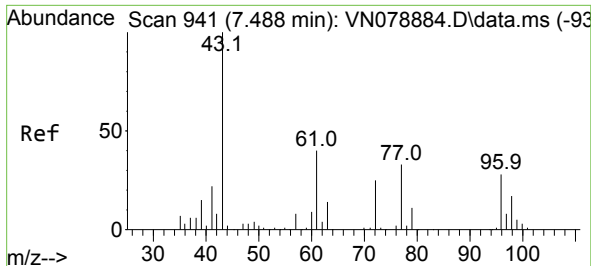
Tgt Ion: 76 Resp: 2253

Ion Ratio Lower Upper

76 100

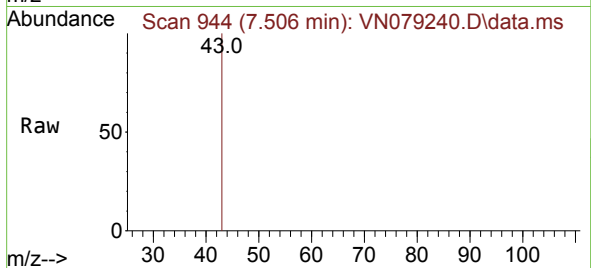
78 0.0 7.4 11.0#



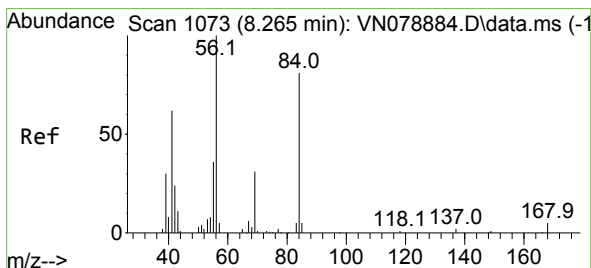
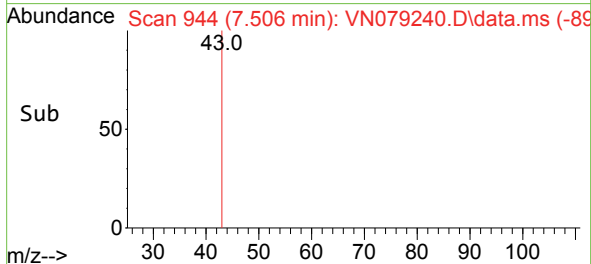
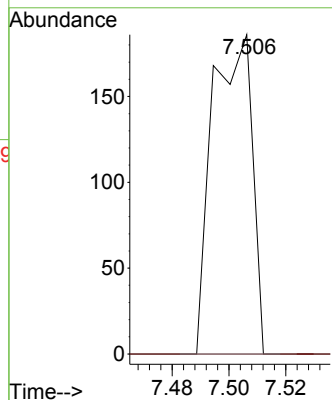


#25  
2-Butanone  
Concen: 0.207 ug/l  
RT: 7.506 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Instrument :  
MSVOA\_N  
ClientSampleId :

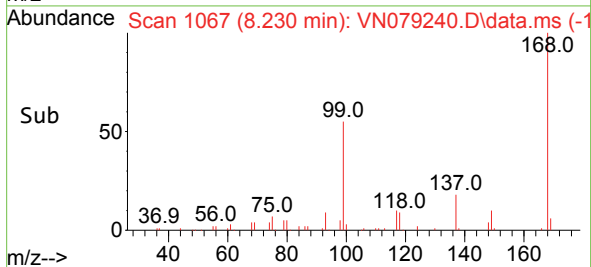
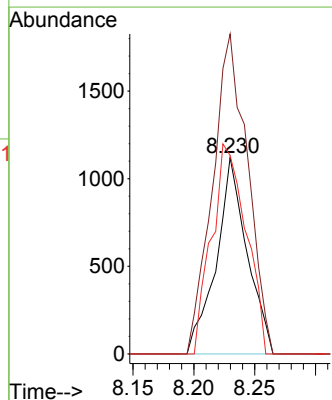
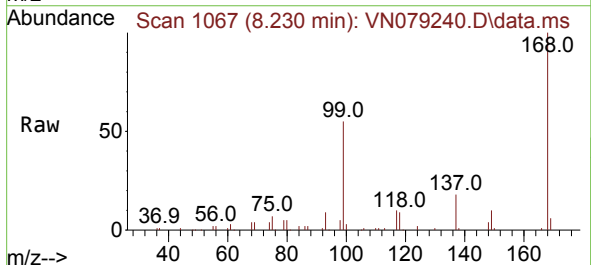


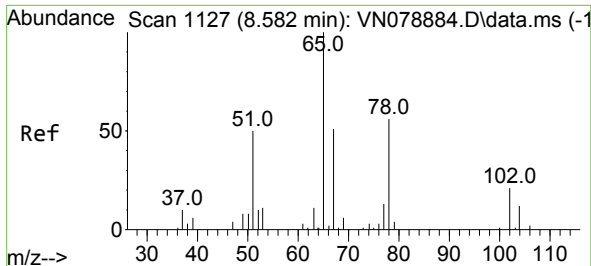
Tgt Ion: 43 Resp: 180  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#31  
Cyclohexane  
Concen: 0.955 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Tgt Ion: 56 Resp: 1972  
Ion Ratio Lower Upper  
56 100  
69 162.9 26.8 40.2#  
84 101.0 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 53.880 ug/l

RT: 8.589 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

Instrument :

MSVOA\_N

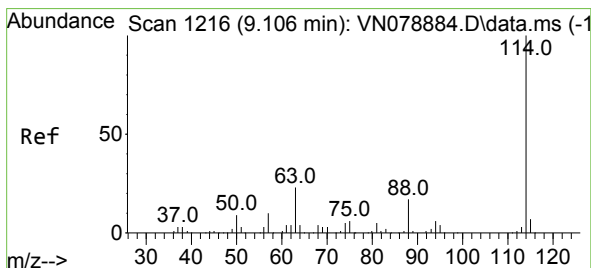
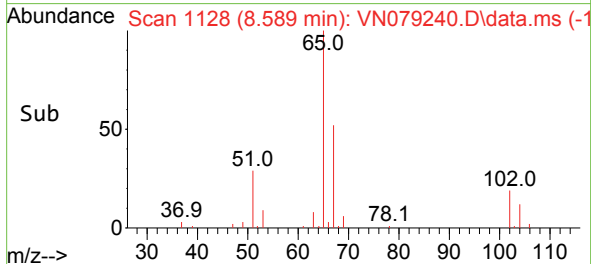
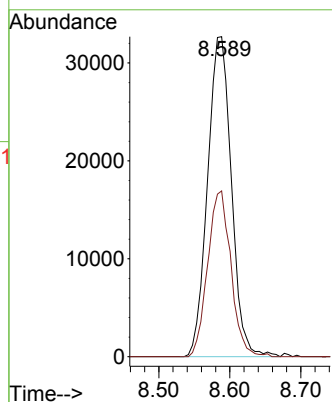
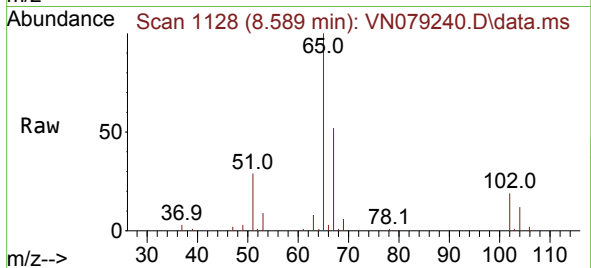
ClientSampleId :

Tgt Ion: 65 Resp: 76168

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

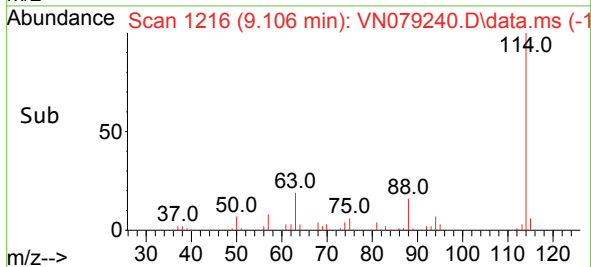
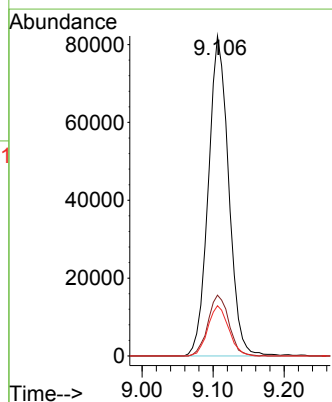
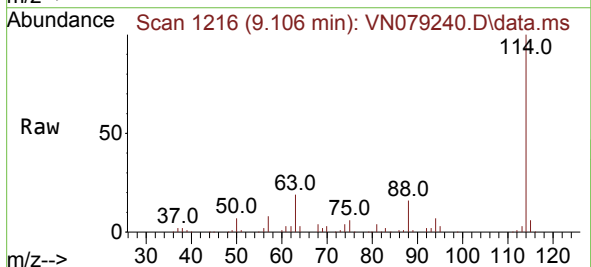
Tgt Ion: 114 Resp: 163577

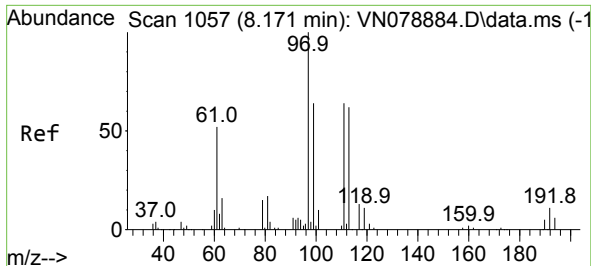
Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.598 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

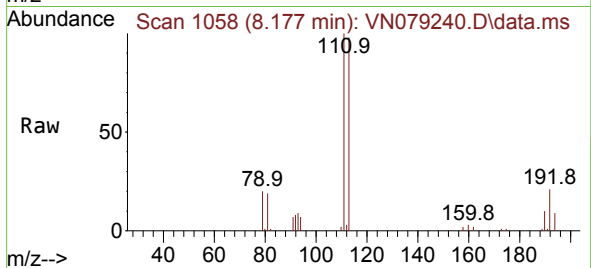
Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

Instrument :

MSVOA\_N

ClientSampleId :



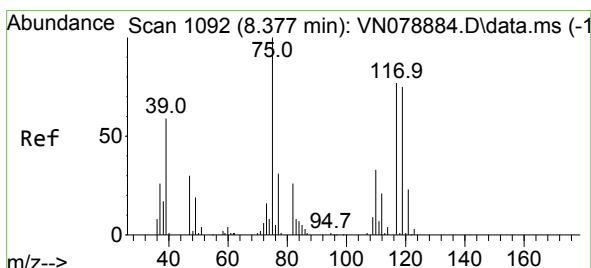
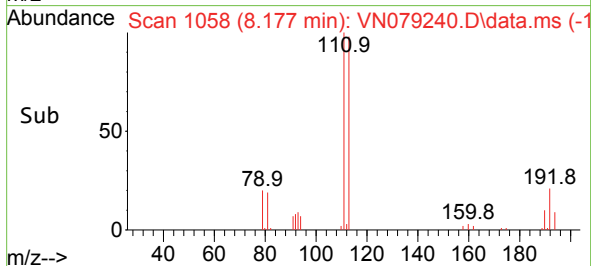
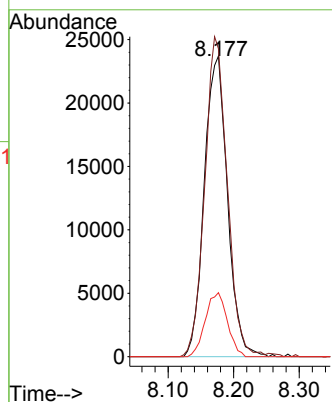
Tgt Ion:113 Resp: 58319

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

192 20.2 12.7 19.1#



#36

1,1-Dichloropropene

Concen: 4.424 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

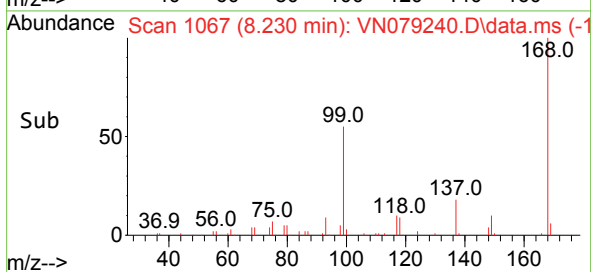
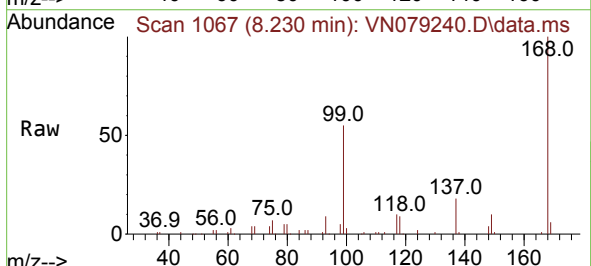
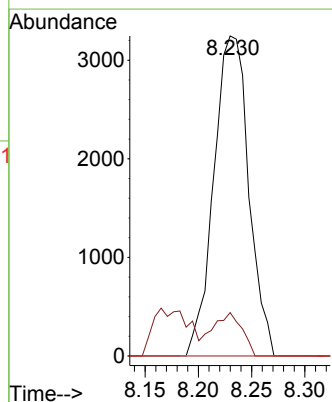
Tgt Ion: 75 Resp: 7419

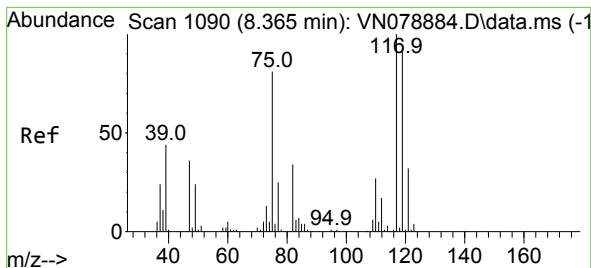
Ion Ratio Lower Upper

75 100

110 10.4 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.204 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

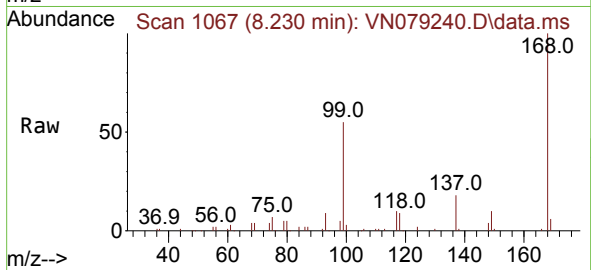
Lab File: VN079240.D

Acq: 12 Sep 2023 17:11

Instrument :

MSVOA\_N

ClientSampleId :



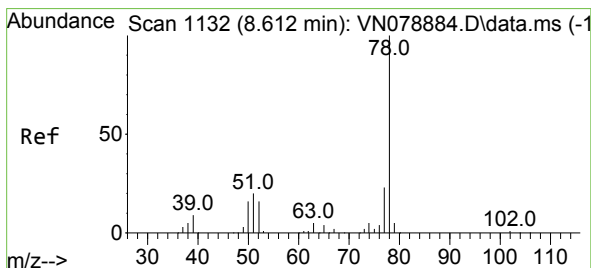
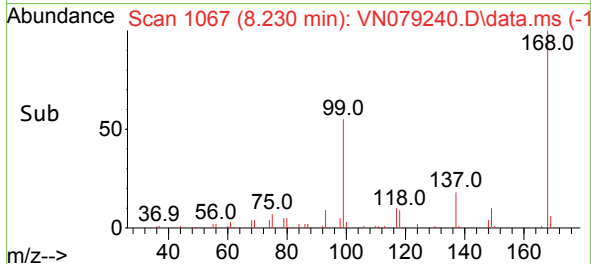
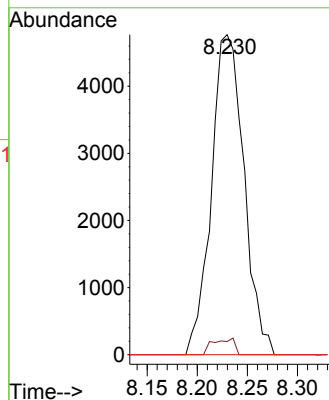
Tgt Ion:117 Resp: 10768

Ion Ratio Lower Upper

117 100

119 4.1 77.3 115.9#

121 0.0 23.3 34.9#



#40

Benzene

Concen: 0.331 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN079240.D

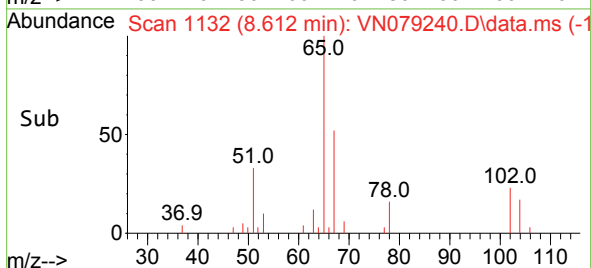
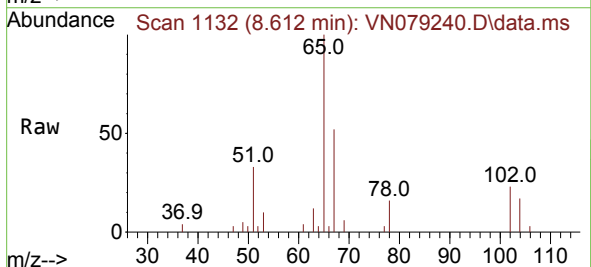
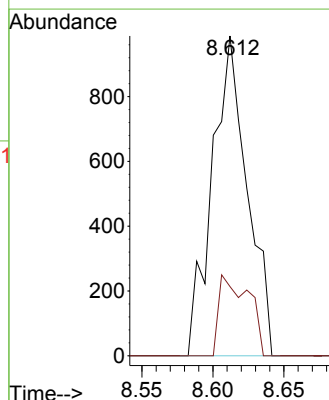
Acq: 12 Sep 2023 17:11

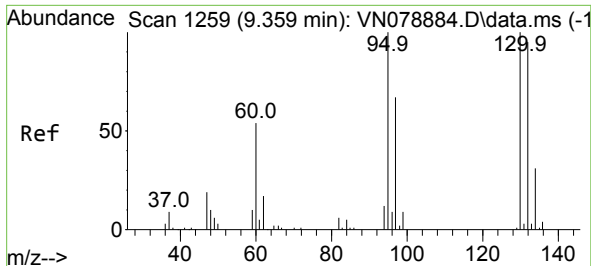
Tgt Ion: 78 Resp: 1700

Ion Ratio Lower Upper

78 100

77 21.7 19.0 28.6

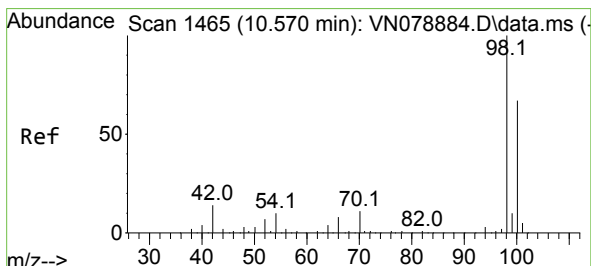
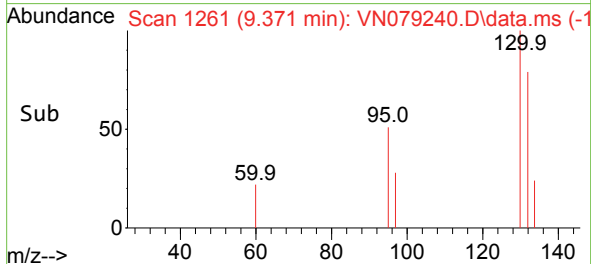
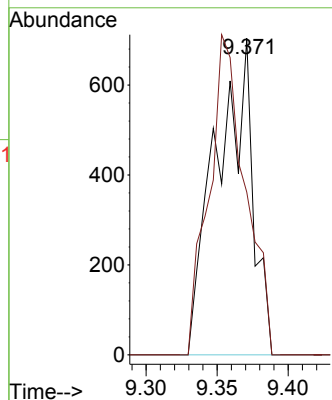
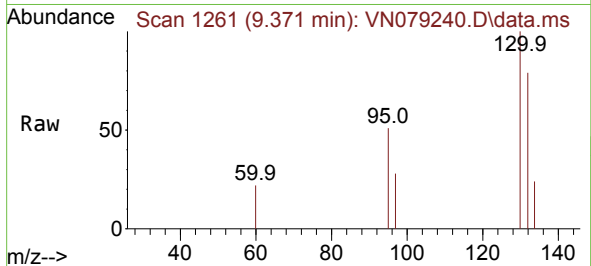




#44  
Trichloroethene  
Concen: 0.992 ug/l  
RT: 9.371 min Scan# 1259  
Delta R.T. 0.012 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

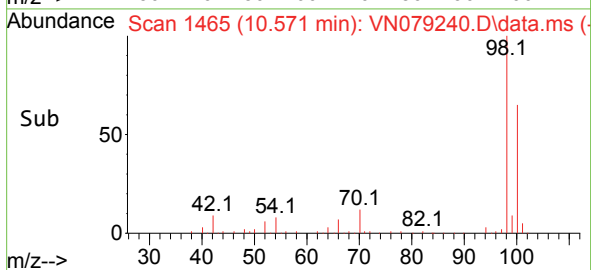
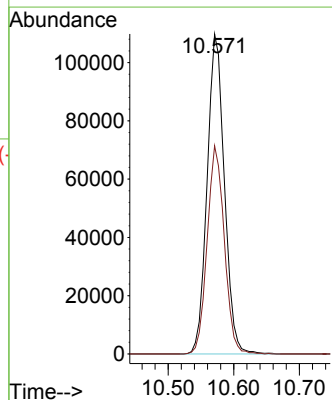
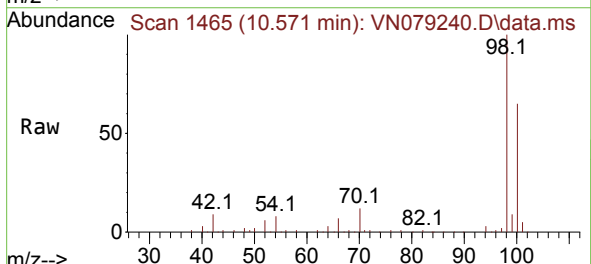
Instrument :  
MSVOA\_N  
ClientSampleId :

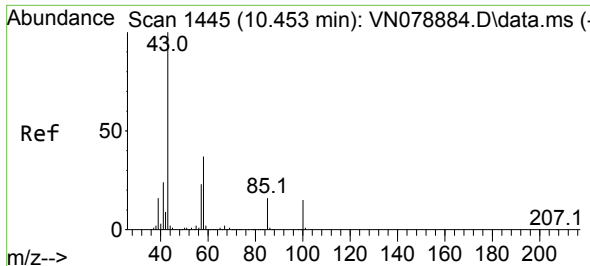
Tgt Ion:130 Resp: 1255  
Ion Ratio Lower Upper  
130 100  
95 51.4 0.0 204.6



#50  
Toluene-d8  
Concen: 50.338 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Tgt Ion: 98 Resp: 201115  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.0 78.0

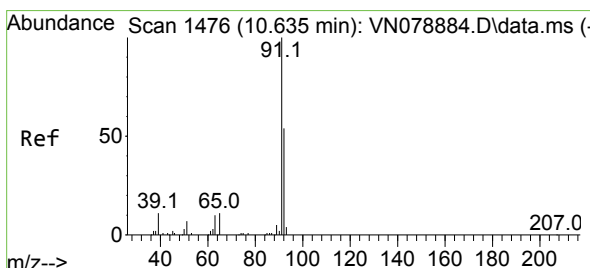
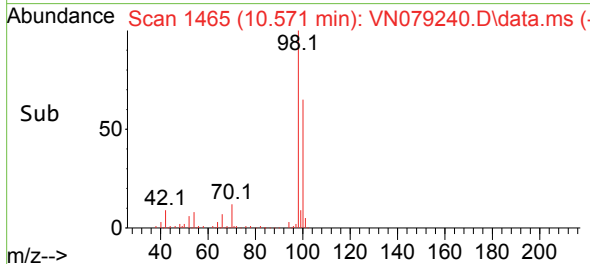
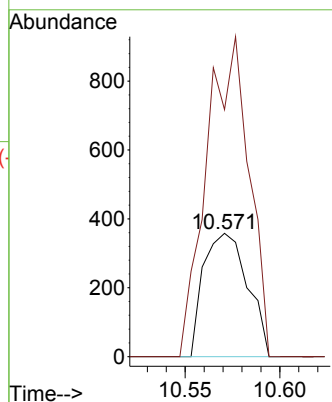
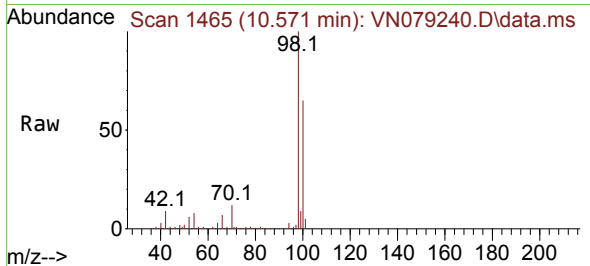




#51  
4-Methyl-2-Pentanone  
Concen: 0.365 ug/l  
RT: 10.571 min Scan# 1445  
Delta R.T. 0.118 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

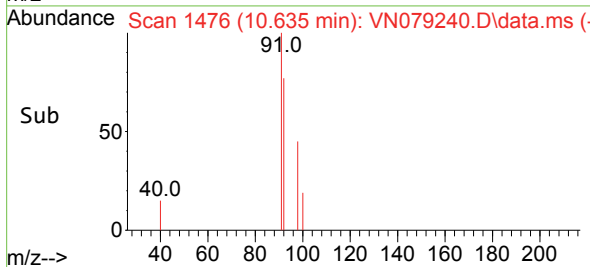
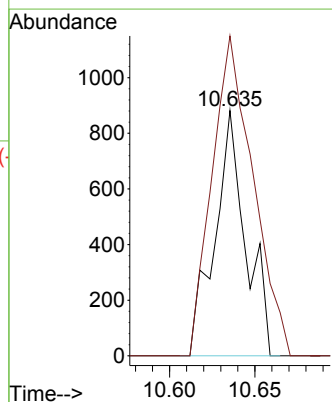
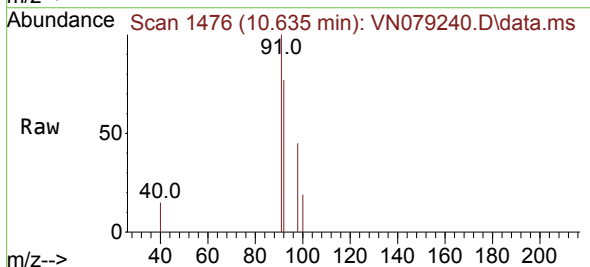
Instrument :  
MSVOA\_N  
ClientSampleId :

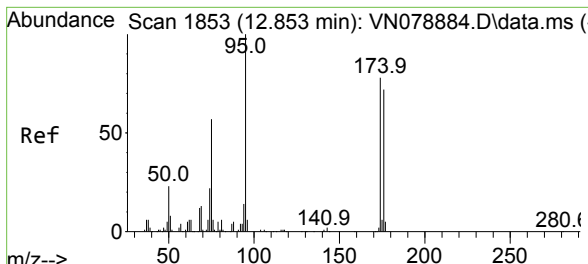
Tgt Ion: 43 Resp: 579  
Ion Ratio Lower Upper  
43 100  
58 249.6 36.6 54.8#



#52  
Toluene  
Concen: 0.354 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VN079240.D  
Acq: 12 Sep 2023 17:11

Tgt Ion: 92 Resp: 1118  
Ion Ratio Lower Upper  
92 100  
91 172.8 137.4 206.0

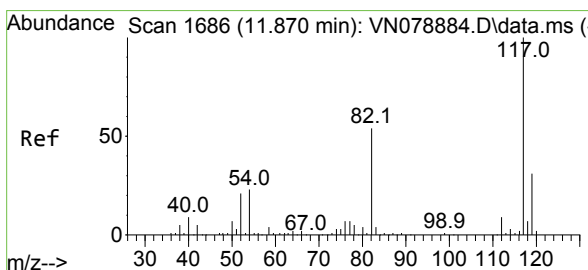
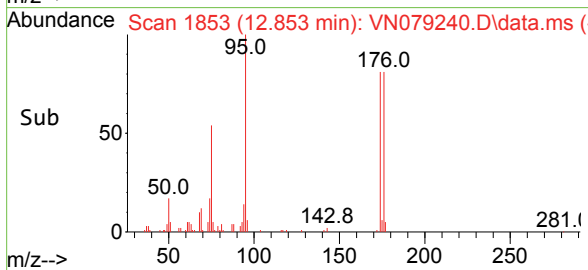
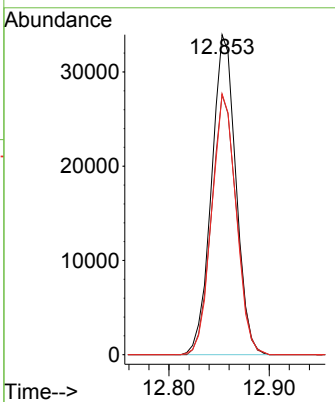
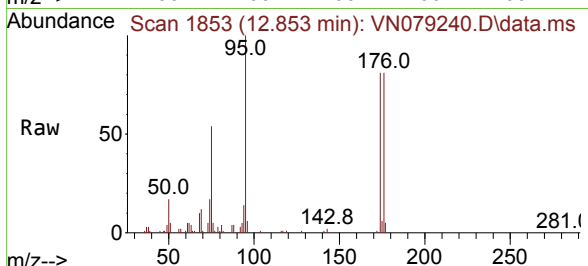




#62  
 4-Bromofluorobenzene  
 Concen: 44.902 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VN079240.D  
 Acq: 12 Sep 2023 17:11

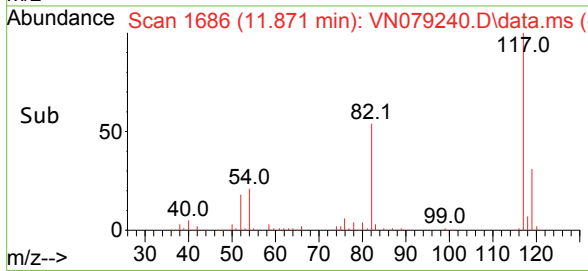
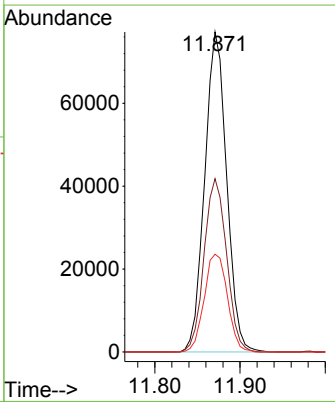
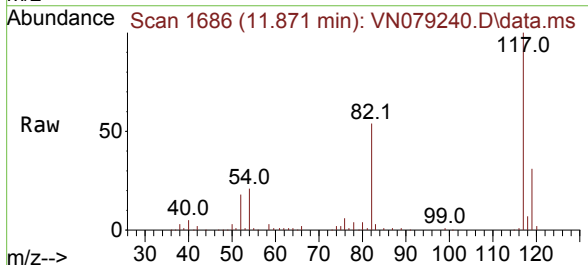
Instrument :  
 MSVOA\_N  
 ClientSampleId :

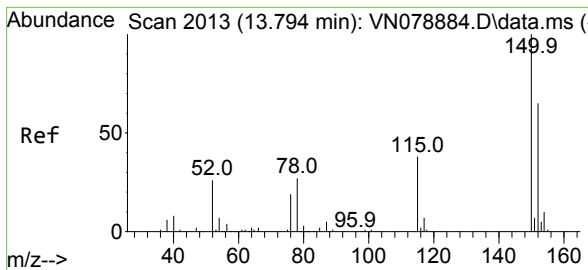
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 57224 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 82.8  | 0.0   | 143.8 |
| 176      | 81.5  | 0.0   | 135.8 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.871 min Scan# 1686  
 Delta R.T. -0.000 min  
 Lab File: VN079240.D  
 Acq: 12 Sep 2023 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 137932 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.1  | 44.0  | 66.0   |
| 119      | 30.6  | 25.6  | 38.4   |

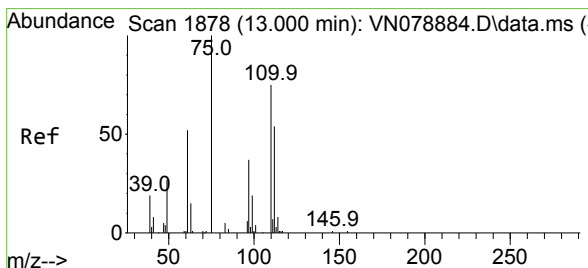
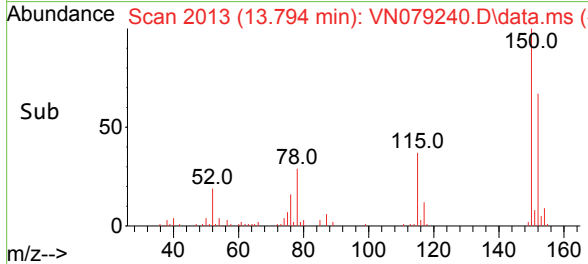
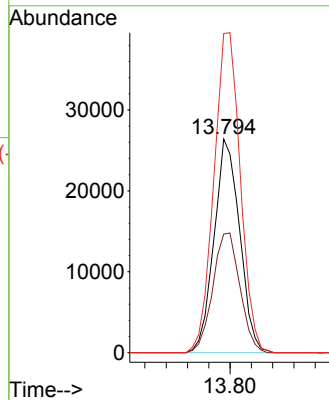
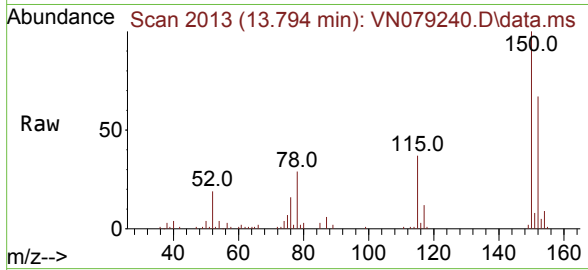




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN079240.D  
 Acq: 12 Sep 2023 17:11

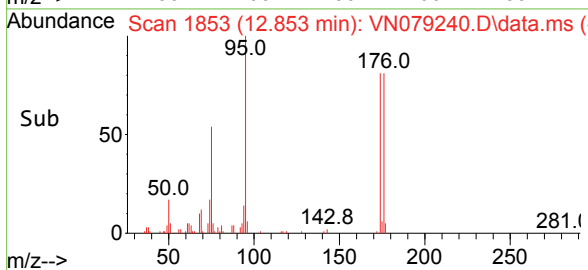
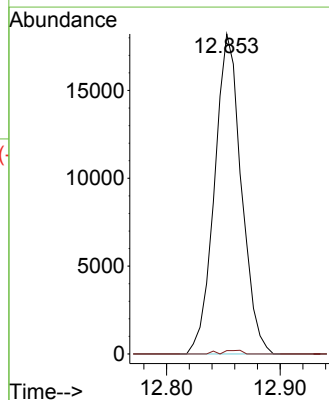
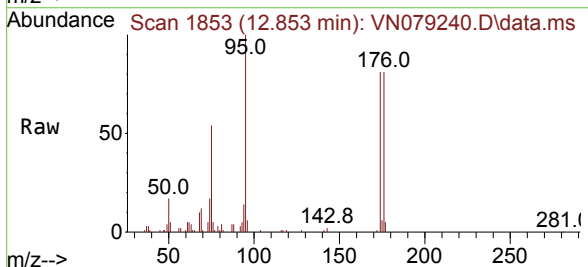
Instrument :  
 MSVOA\_N  
 ClientSampleId :

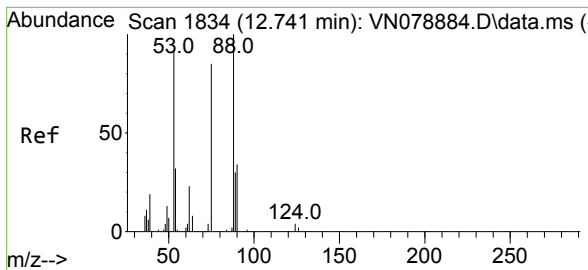
Tgt Ion:152 Resp: 44058  
 Ion Ratio Lower Upper  
 152 100  
 115 59.4 32.3 96.8  
 150 154.7 0.0 355.8



#76  
 1,2,3-Trichloropropane  
 Concen: 25.174 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.147 min  
 Lab File: VN079240.D  
 Acq: 12 Sep 2023 17:11

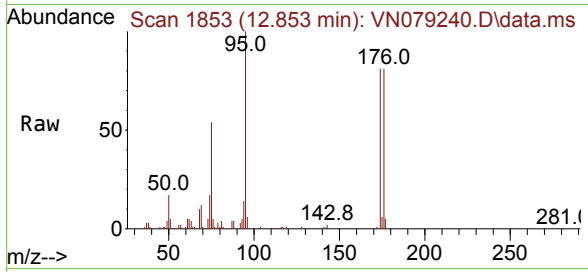
Tgt Ion: 75 Resp: 29892  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 69.208 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN079240.D  
 Acq: 12 Sep 2023 17:11

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 29892  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.4 101.2#  
 89 0.0 38.8 58.2#

