

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011524\  
 Data File : VN080719.D  
 Acq On : 15 Jan 2024 16:42  
 Operator : JC\MD  
 Sample : P1144-05  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 16 00:42:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 06:34:36 2024  
 Response via : Initial Calibration

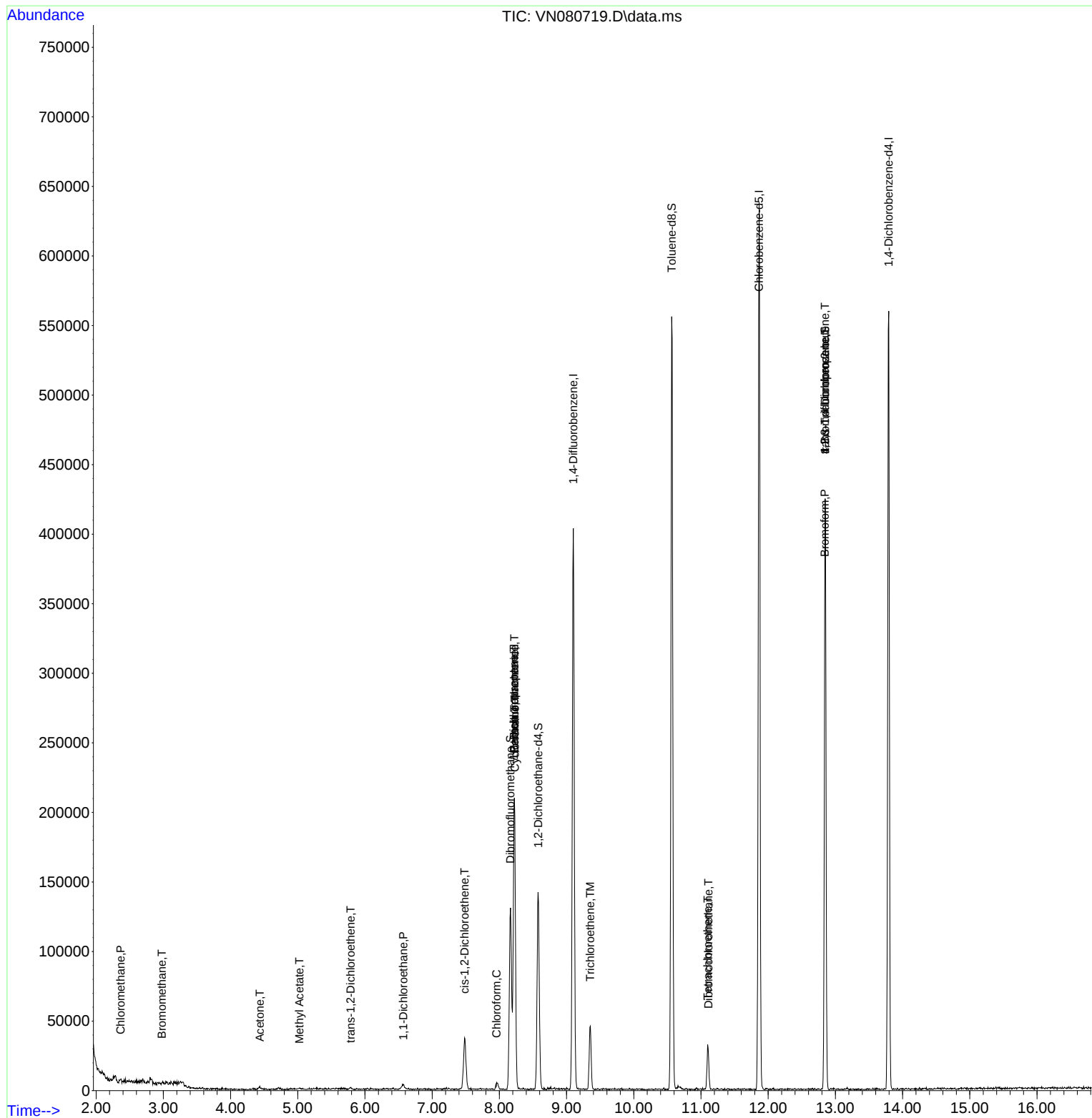
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 142570   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 320858   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 340263   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 132473   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.576  | 65    | 110411   | 44.100    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 88.200%  |
| 35) Dibromofluoromethane      | 8.165  | 113   | 92808    | 50.908    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 101.820% |
| 50) Toluene-d8                | 10.565 | 98    | 370903   | 53.357    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 106.720% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 151730   | 56.920    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 113.840% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 2809     | 0.424     | ug/l   | 97       |
| 5) Bromomethane               | 2.977  | 94    | 213      | 0.267     | ug/l   | 94       |
| 6) Chloroethane               | 3.112  | 64    | 136      | Below Cal | #      | 43       |
| 16) Acetone                   | 4.436  | 43    | 2721     | 3.310     | ug/l   | 97       |
| 18) Methyl Acetate            | 5.024  | 43    | 1384     | 0.565     | ug/l # | 42       |
| 21) trans-1,2-Dichloroethene  | 5.788  | 96    | 454      | 0.210     | ug/l # | 33       |
| 24) 1,1-Dichloroethane        | 6.571  | 63    | 5620     | 1.290     | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 7.482  | 96    | 19911    | 8.366     | ug/l   | 89       |
| 30) Chloroform                | 7.959  | 83    | 4843     | 1.186     | ug/l   | 95       |
| 31) Cyclohexane               | 8.229  | 56    | 5113     | 1.322     | ug/l # | 36       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 14611    | 3.913     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 15981    | 4.766     | ug/l # | 15       |
| 44) Trichloroethene           | 9.353  | 130   | 15016    | 6.318     | ug/l   | 90       |
| 60) Dibromochloromethane      | 11.112 | 129   | 6864     | 2.885     | ug/l # | 11       |
| 64) Tetrachloroethene         | 11.100 | 164   | 6639     | 2.841     | ug/l # | 78       |
| 71) Bromoform                 | 12.841 | 173   | 572      | 0.315     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 82407    | 20.173    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 82407    | 47.557    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

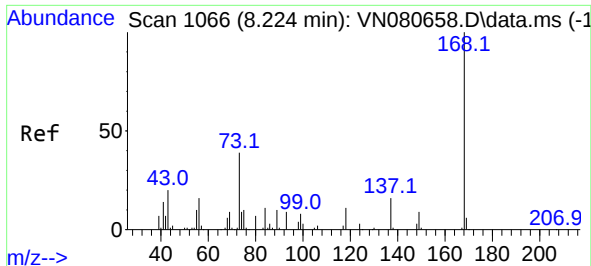
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011524\  
Data File : VN080719.D  
Acq On : 15 Jan 2024 16:42  
Operator : JC\MD  
Sample : P1144-05  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

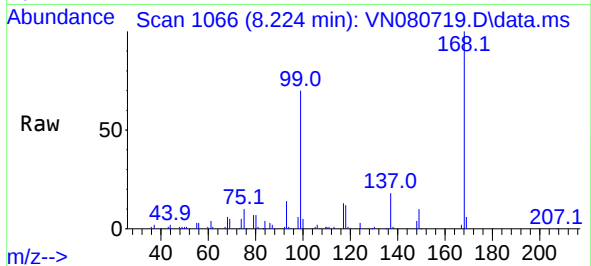
Quant Time: Jan 16 00:42:42 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 06:34:36 2024  
Response via : Initial Calibration



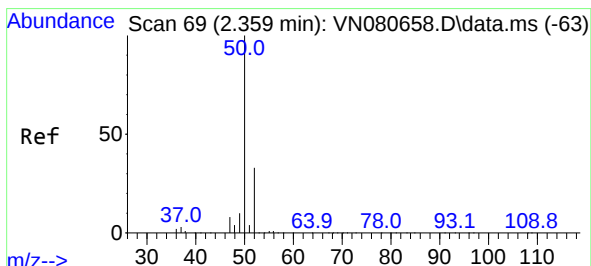
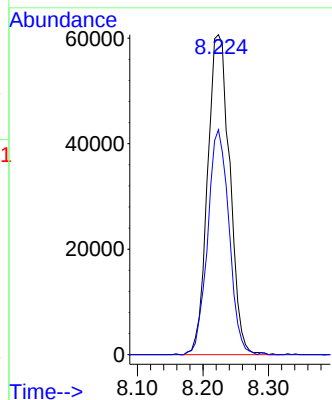
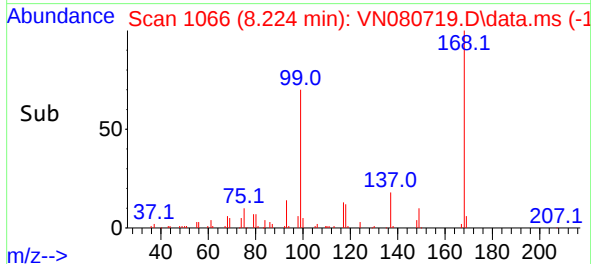


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

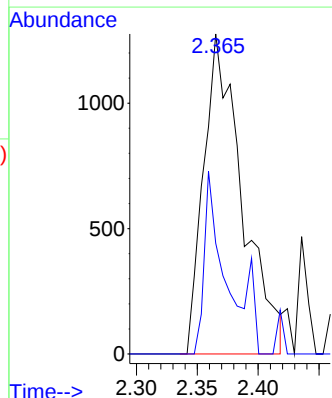
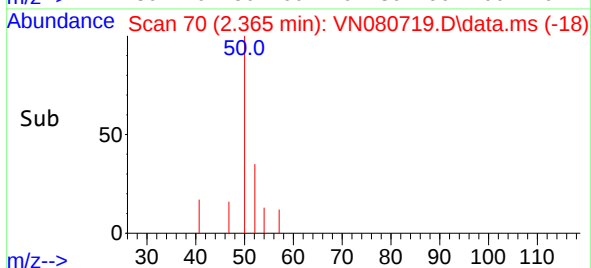
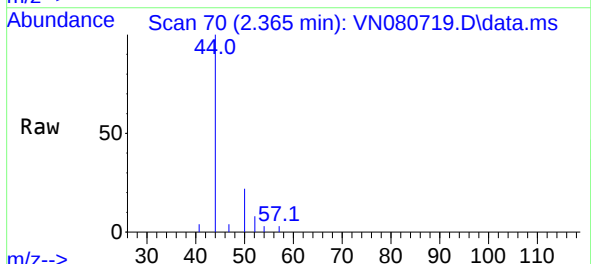


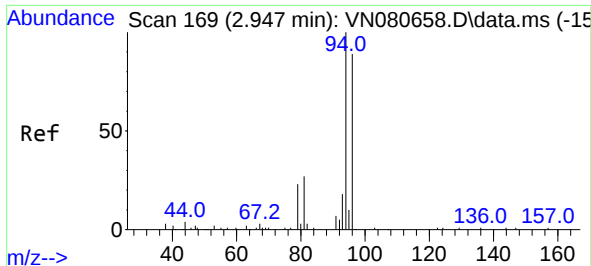
Tgt Ion:168 Resp: 142570  
Ion Ratio Lower Upper  
168 100  
99 70.3 53.0 79.6



#3  
Chloromethane  
Concen: 0.424 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion: 50 Resp: 2809  
Ion Ratio Lower Upper  
50 100  
52 34.6 26.5 39.7

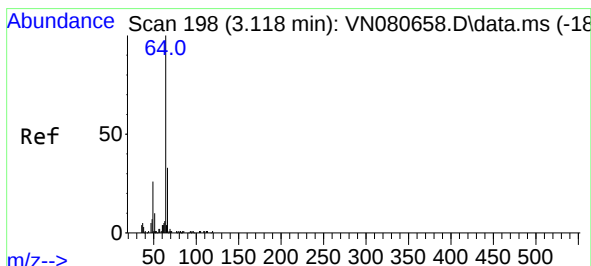
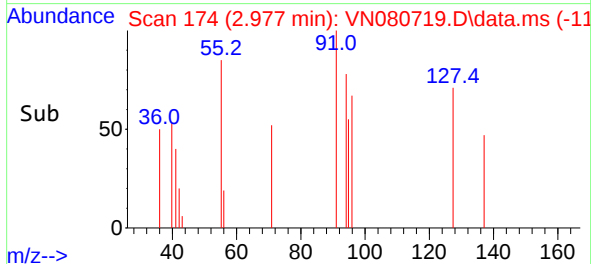
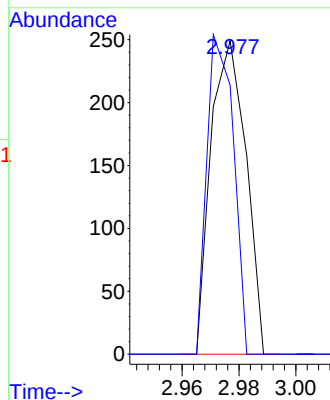
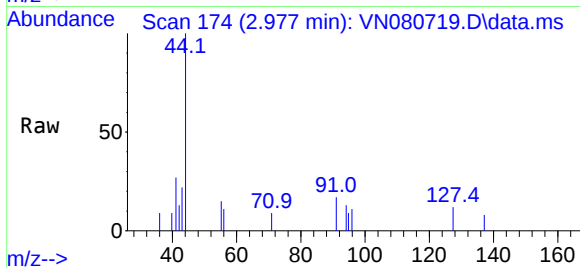




#5  
Bromomethane  
Concen: 0.267 ug/l  
RT: 2.977 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

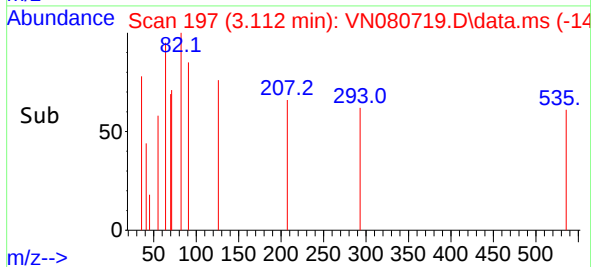
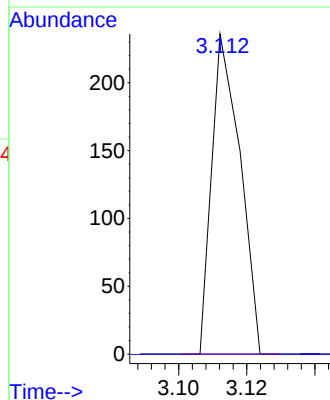
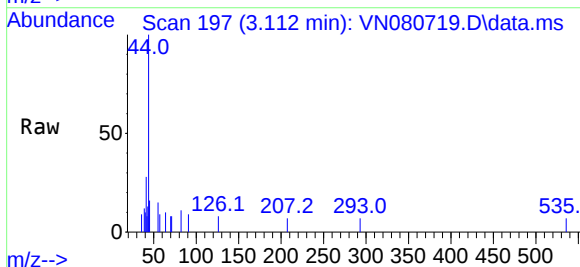
Instrument :  
MSVOA\_N  
ClientSampleId :

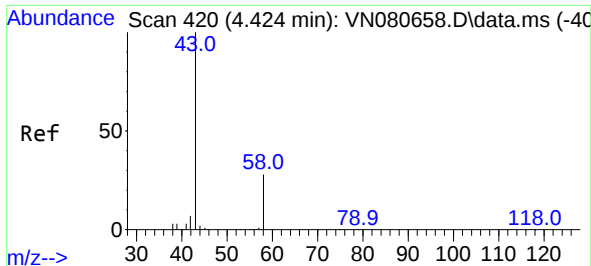
Tgt Ion: 94 Resp: 213  
Ion Ratio Lower Upper  
94 100  
96 85.9 73.1 109.7



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.112 min Scan# 197  
Delta R.T. -0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion: 64 Resp: 136  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

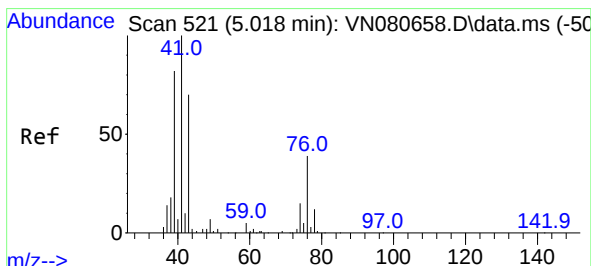
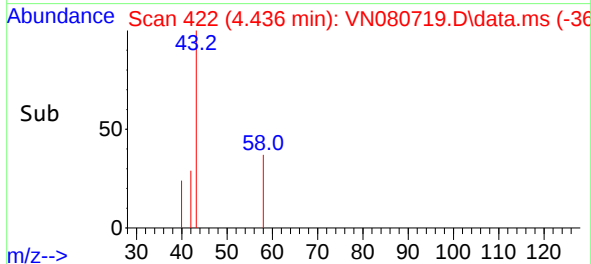
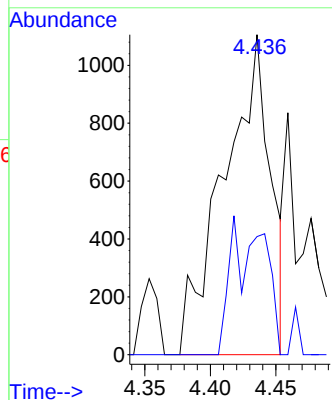
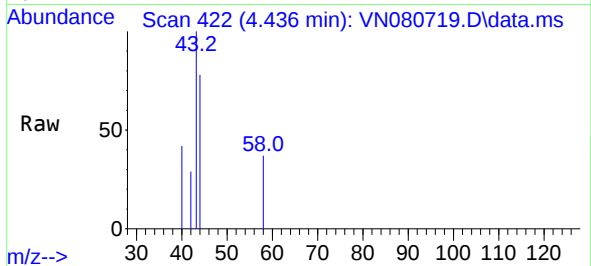




#16  
Acetone  
Concen: 3.310 ug/l  
RT: 4.436 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

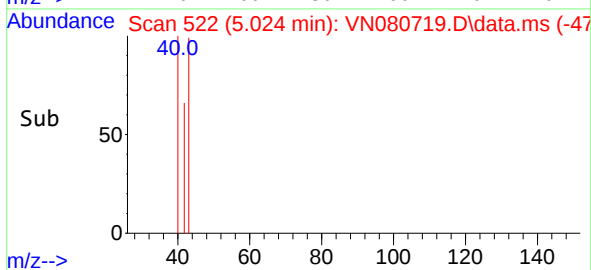
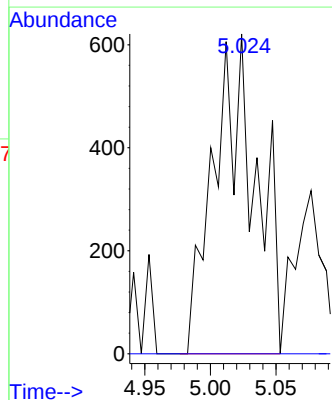
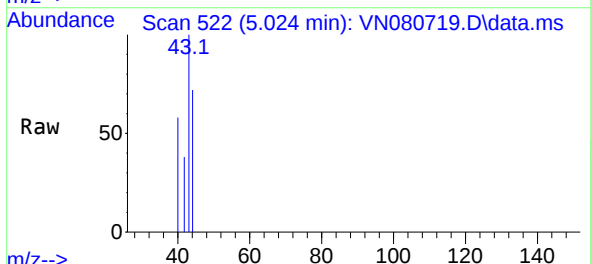
Instrument :  
MSVOA\_N  
ClientSampleId :

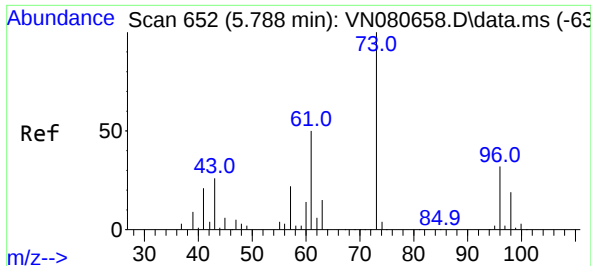
Tgt Ion: 43 Resp: 2721  
Ion Ratio Lower Upper  
43 100  
58 36.9 28.0 42.0



#18  
Methyl Acetate  
Concen: 0.565 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

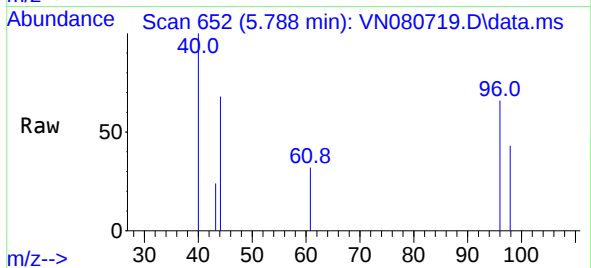
Tgt Ion: 43 Resp: 1384  
Ion Ratio Lower Upper  
43 100  
74 0.0 26.2 39.4#



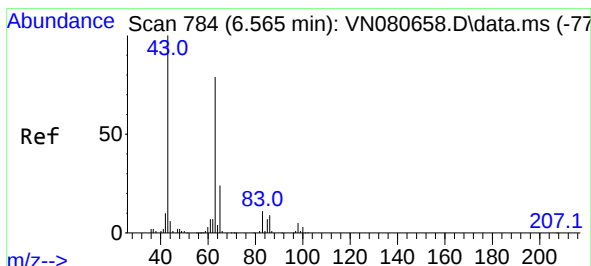
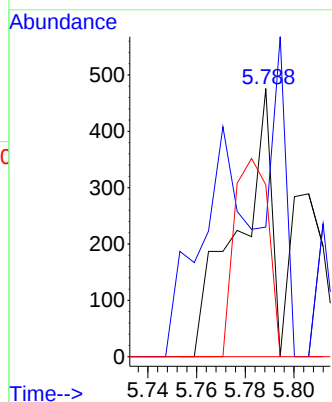
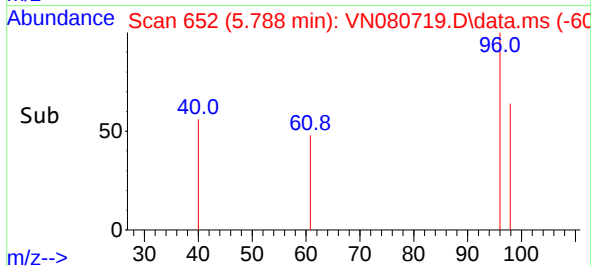


#21  
trans-1,2-Dichloroethene  
Concen: 0.210 ug/l  
RT: 5.788 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

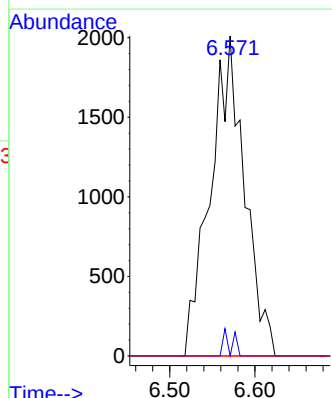
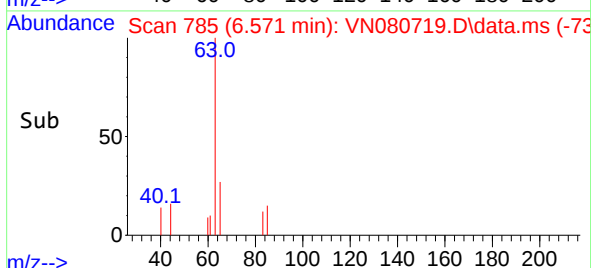
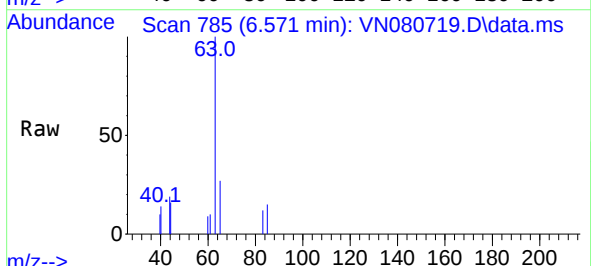


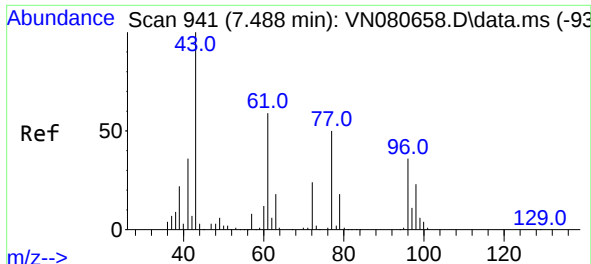
Tgt Ion: 96 Resp: 454  
Ion Ratio Lower Upper  
96 100  
61 9.0 90.1 135.1#  
98 64.1 46.4 69.6



#24  
1,1-Dichloroethane  
Concen: 1.290 ug/l  
RT: 6.571 min Scan# 785  
Delta R.T. 0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion: 63 Resp: 5620  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.9 11.7#  
100 0.0 2.5 7.4#





#27

cis-1,2-Dichloroethene

Concen: 8.366 ug/l

RT: 7.482 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN080719.D

Acq: 15 Jan 2024 16:42

Instrument :

MSVOA\_N

ClientSampleId :

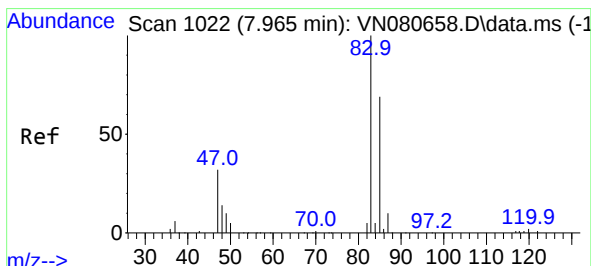
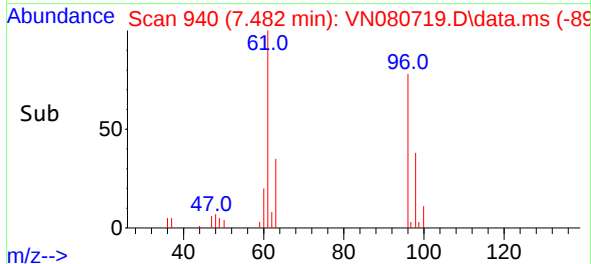
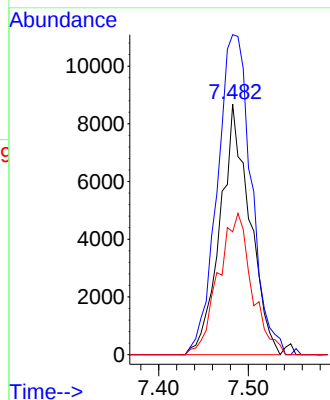
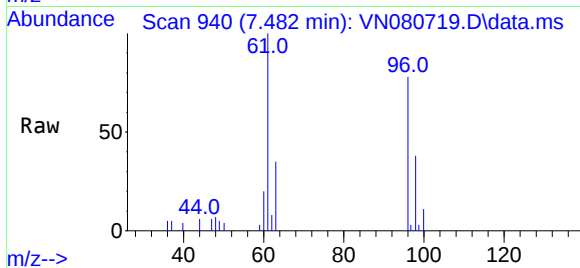
Tgt Ion: 96 Resp: 19911

Ion Ratio Lower Upper

96 100

61 146.7 0.0 255.2

98 63.7 0.0 128.8



#30

Chloroform

Concen: 1.186 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN080719.D

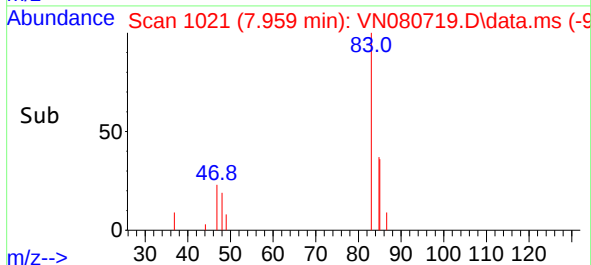
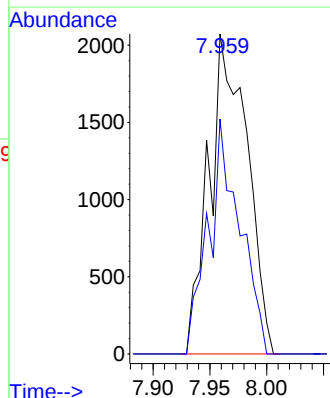
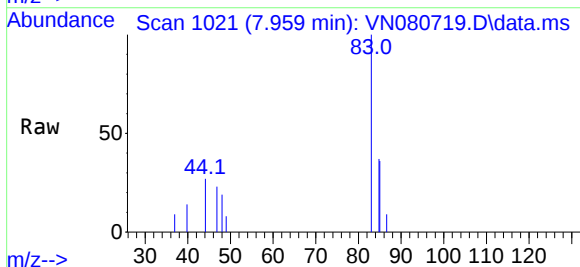
Acq: 15 Jan 2024 16:42

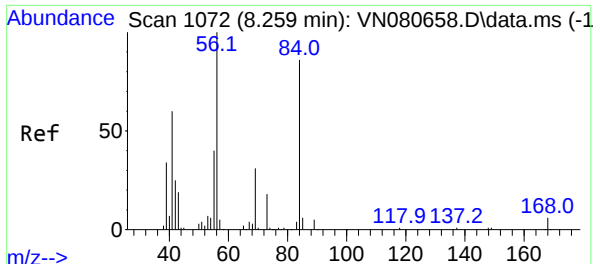
Tgt Ion: 83 Resp: 4843

Ion Ratio Lower Upper

83 100

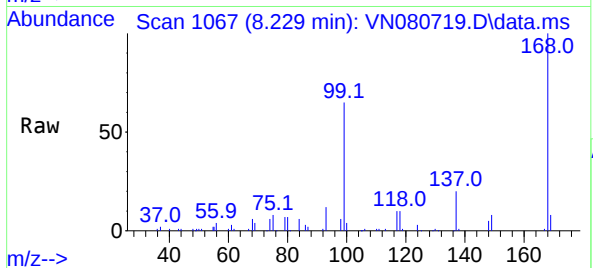
85 73.4 55.4 83.0



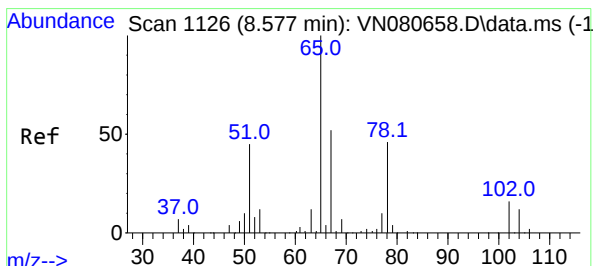
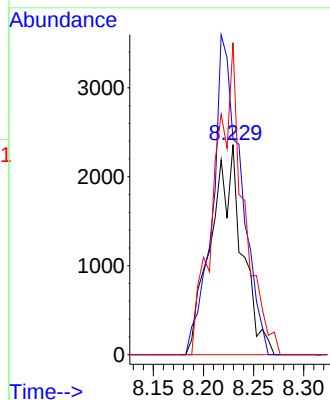
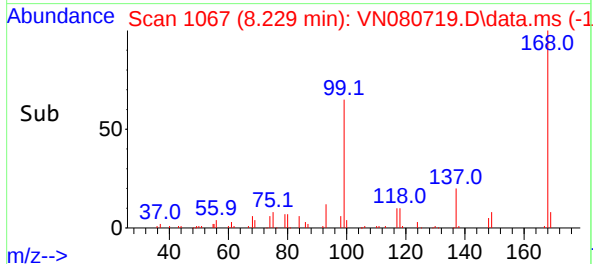


#31  
Cyclohexane  
Concen: 1.322 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.029 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

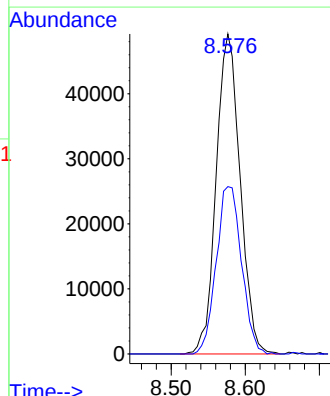
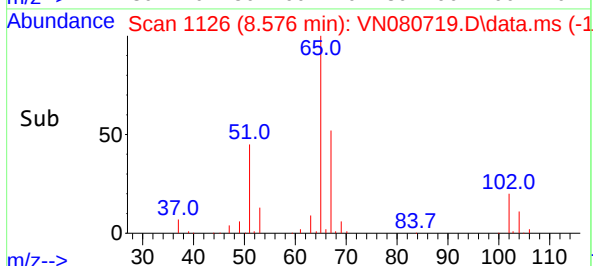
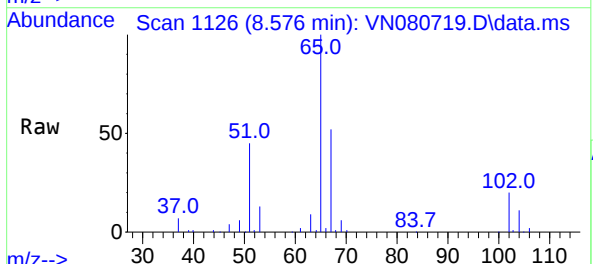


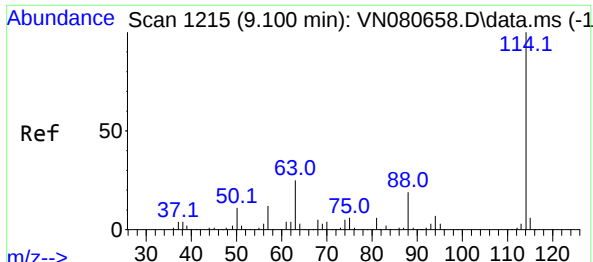
Tgt Ion: 56 Resp: 5113  
Ion Ratio Lower Upper  
56 100  
69 102.6 26.8 40.2#  
84 148.5 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 44.100 ug/l  
RT: 8.576 min Scan# 1126  
Delta R.T. -0.001 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

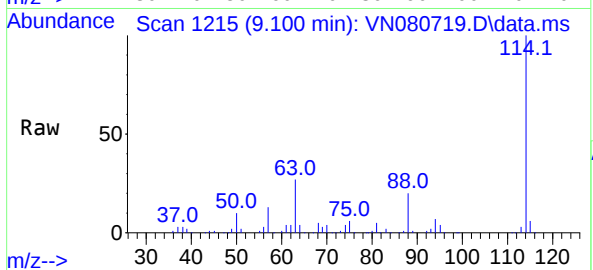
Tgt Ion: 65 Resp: 110411  
Ion Ratio Lower Upper  
65 100  
67 55.2 0.0 106.6



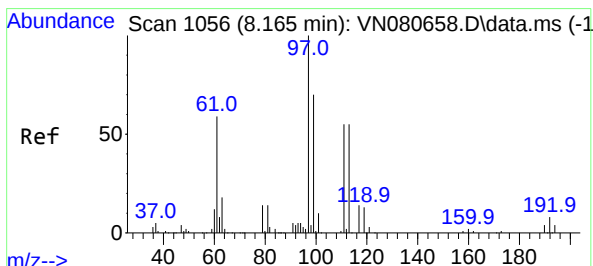
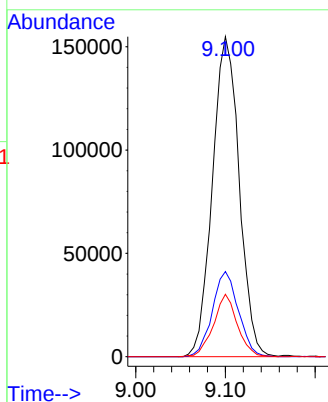
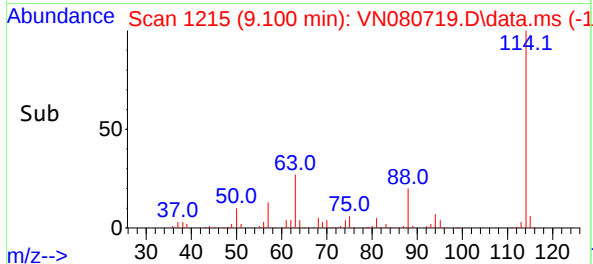


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

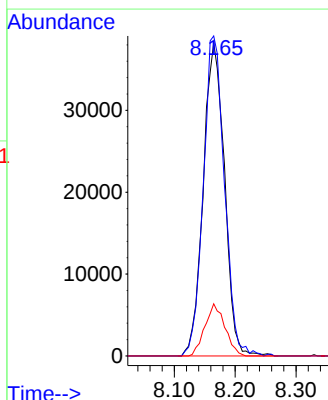
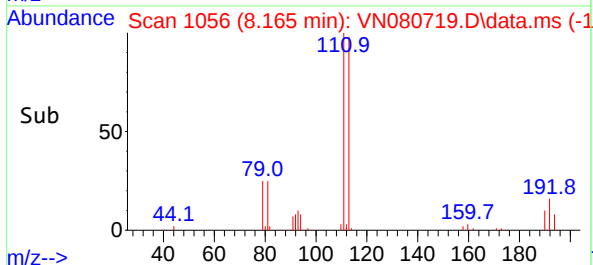
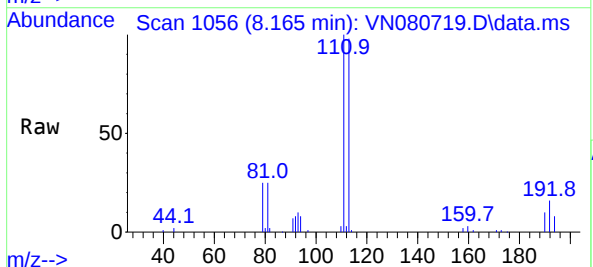


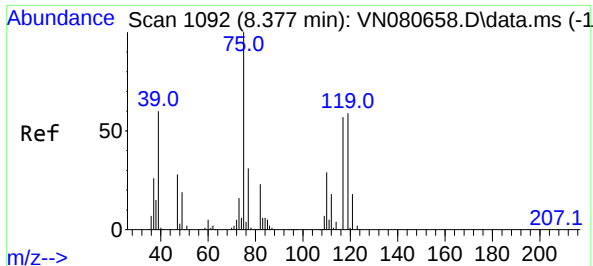
Tgt Ion:114 Resp: 320858  
Ion Ratio Lower Upper  
114 100  
63 26.6 0.0 36.4  
88 19.5 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 50.908 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion:113 Resp: 92808  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.6 123.8  
192 15.7 12.7 19.1





#36

1,1-Dichloropropene

Concen: 3.913 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.159 min

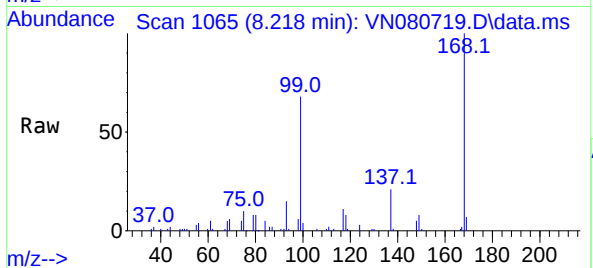
Lab File: VN080719.D

Acq: 15 Jan 2024 16:42

Instrument :

MSVOA\_N

ClientSampleId :



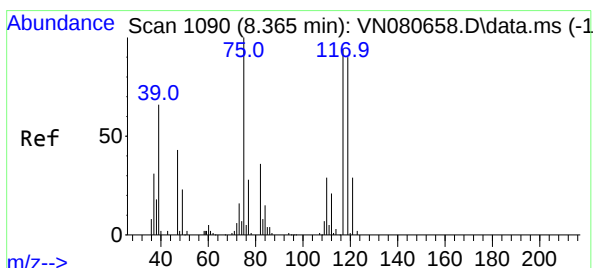
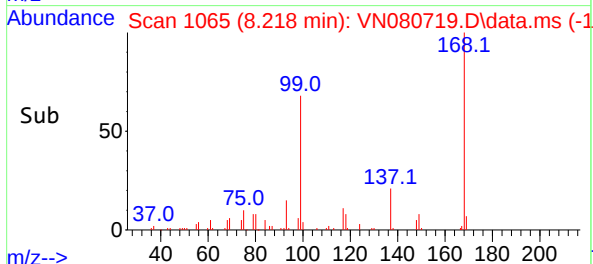
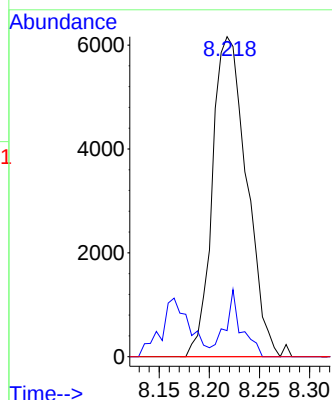
Tgt Ion: 75 Resp: 14611

Ion Ratio Lower Upper

75 100

110 9.9 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.766 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN080719.D

Acq: 15 Jan 2024 16:42

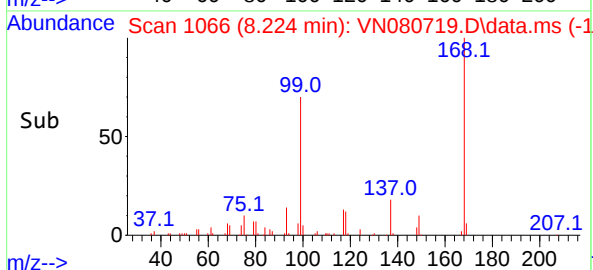
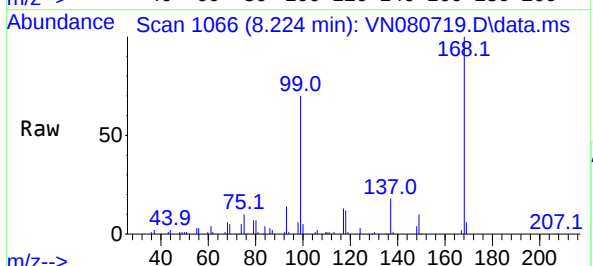
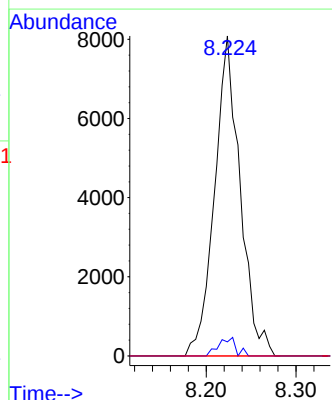
Tgt Ion: 117 Resp: 15981

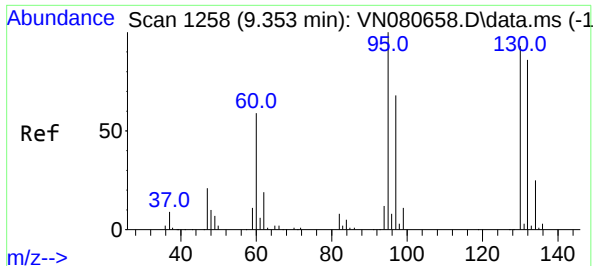
Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

121 0.0 23.3 34.9#





#44

Trichloroethene

Concen: 6.318 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN080719.D

Acq: 15 Jan 2024 16:42

Instrument :

MSVOA\_N

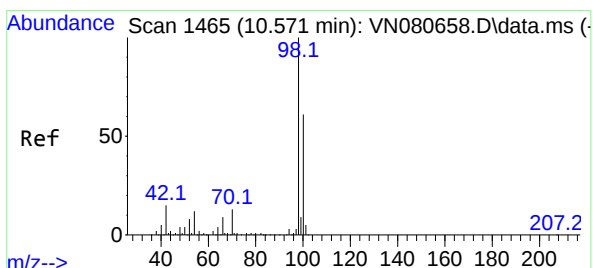
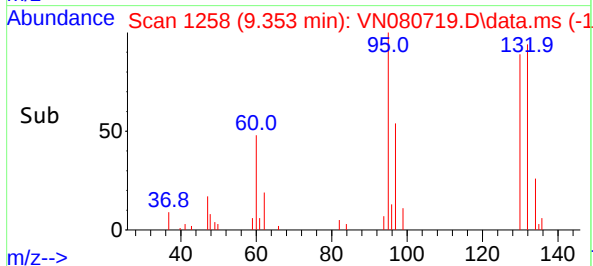
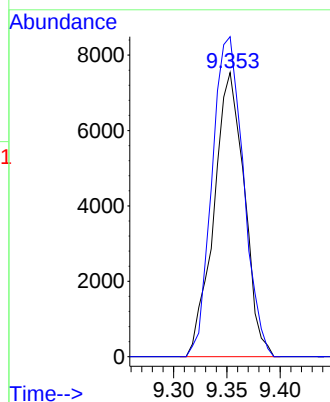
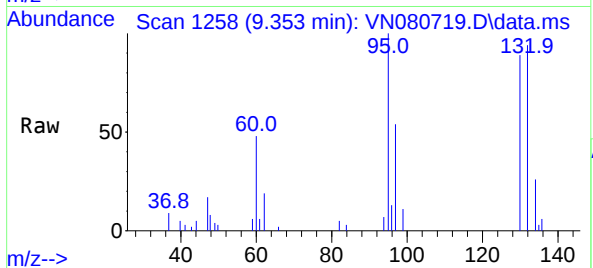
ClientSampleId :

Tgt Ion:130 Resp: 15016

Ion Ratio Lower Upper

130 100

95 112.6 0.0 204.6



#50

Toluene-d8

Concen: 53.357 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN080719.D

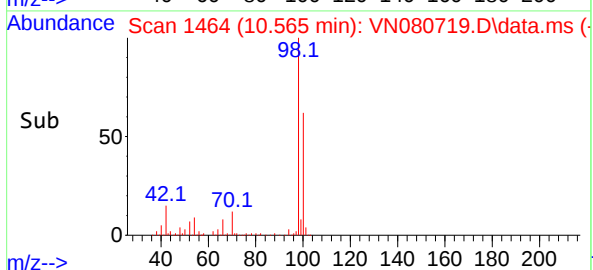
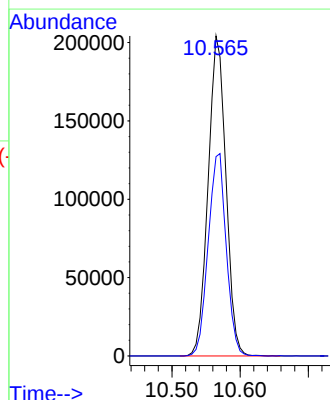
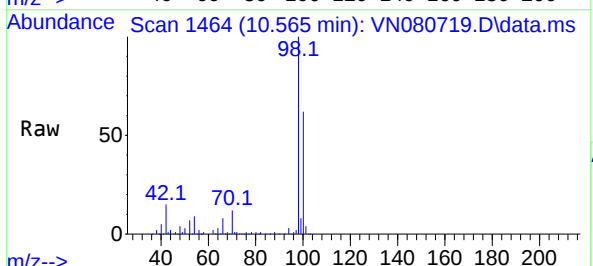
Acq: 15 Jan 2024 16:42

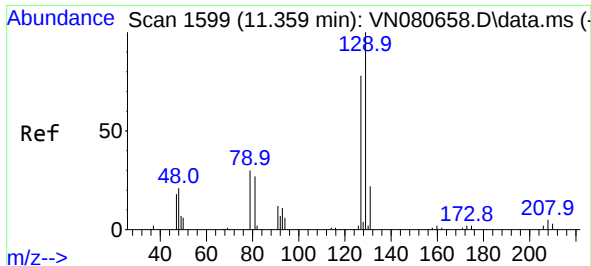
Tgt Ion: 98 Resp: 370903

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0

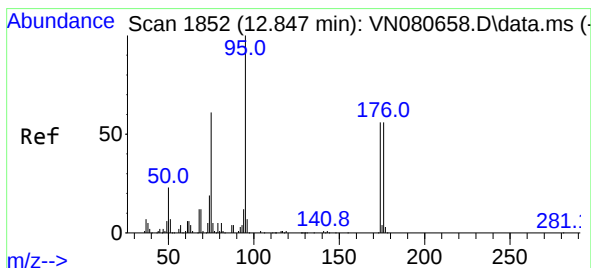
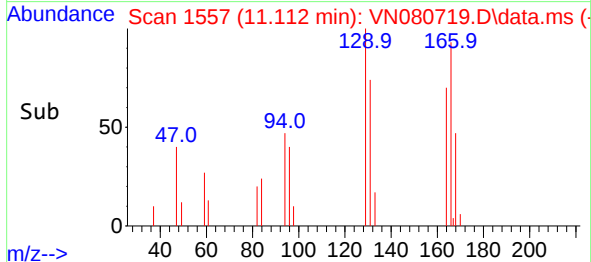
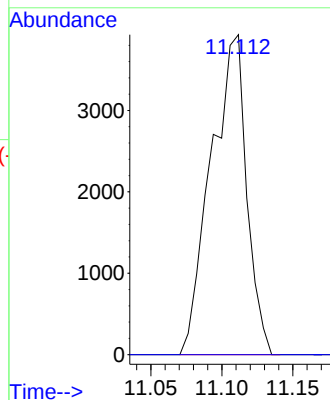
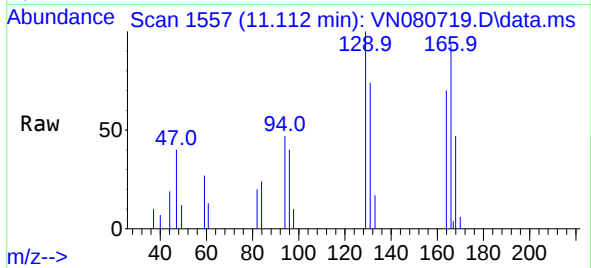




#60  
Dibromochloromethane  
Concen: 2.885 ug/l  
RT: 11.112 min Scan# 11  
Delta R.T. -0.247 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

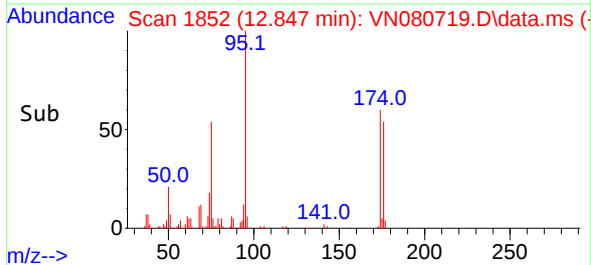
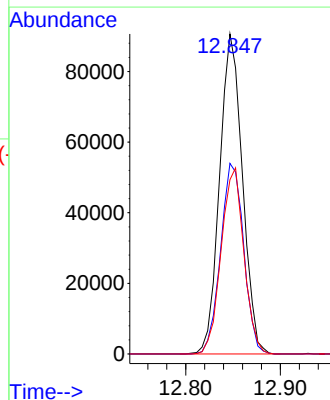
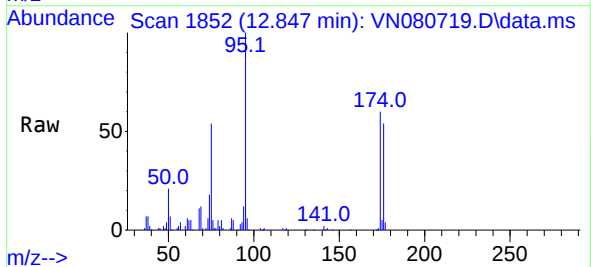
Instrument :  
MSVOA\_N  
ClientSampleId :

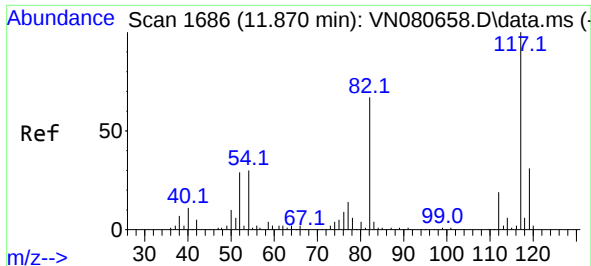
Tgt Ion:129 Resp: 6864  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 116.0#



#62  
4-Bromofluorobenzene  
Concen: 56.920 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion: 95 Resp: 151730  
Ion Ratio Lower Upper  
95 100  
174 60.3 0.0 143.8  
176 57.9 0.0 135.8

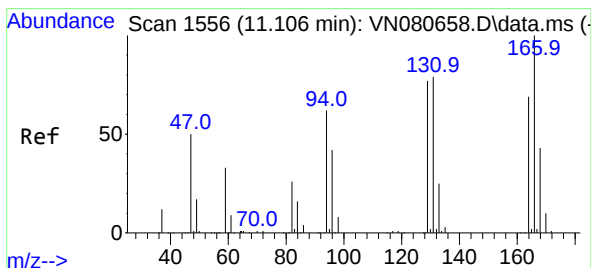
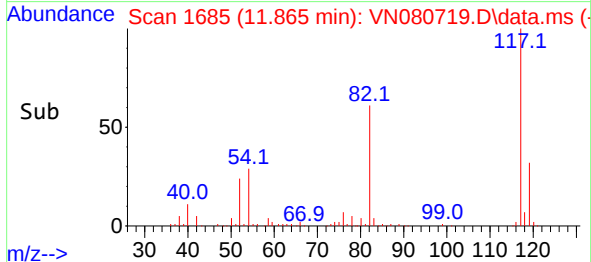
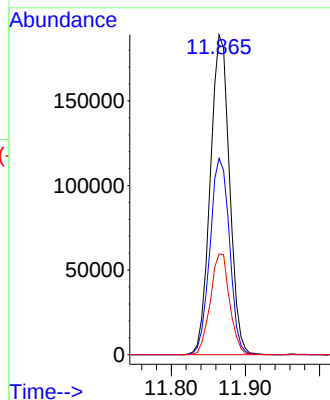
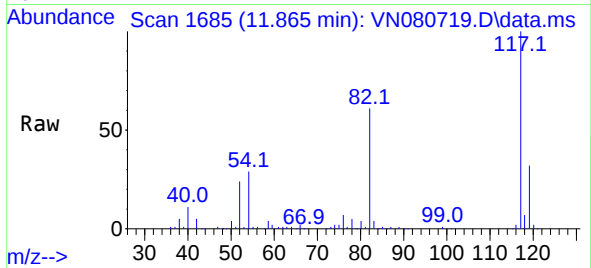




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

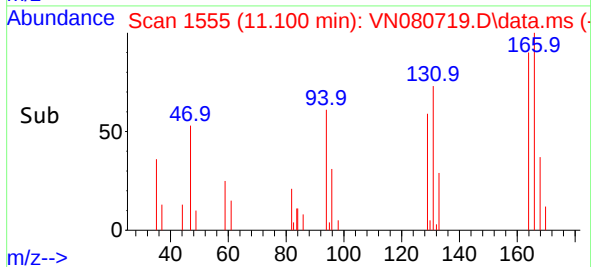
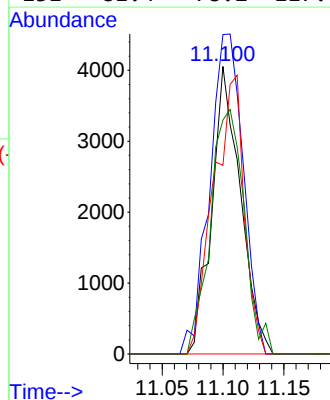
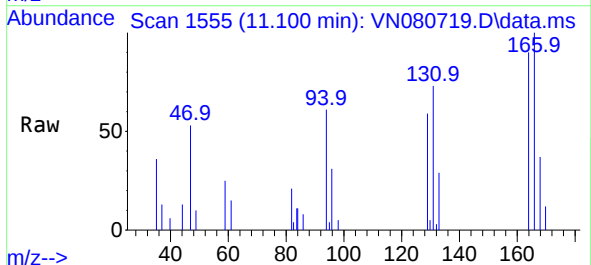
Instrument :  
MSVOA\_N  
ClientSampleId :

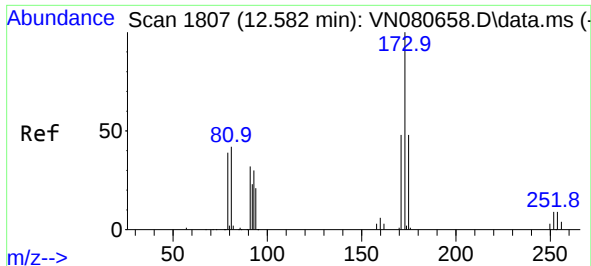
Tgt Ion:117 Resp: 340263  
Ion Ratio Lower Upper  
117 100  
82 61.3 44.0 66.0  
119 31.5 25.6 38.4



#64  
Tetrachloroethene  
Concen: 2.841 ug/l  
RT: 11.100 min Scan# 1555  
Delta R.T. -0.006 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

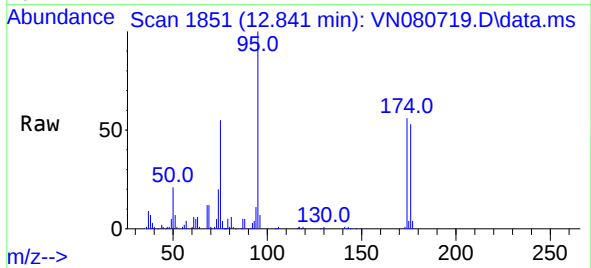
Tgt Ion:164 Resp: 6639  
Ion Ratio Lower Upper  
164 100  
166 111.0 101.4 152.0  
129 65.6 82.4 123.6#  
131 81.4 78.2 117.4



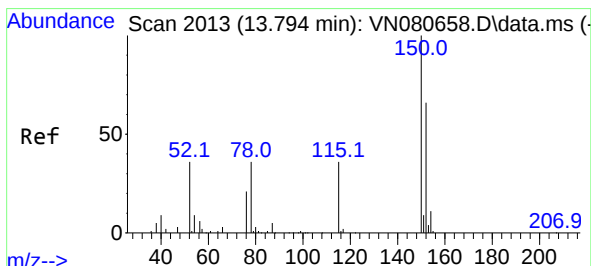
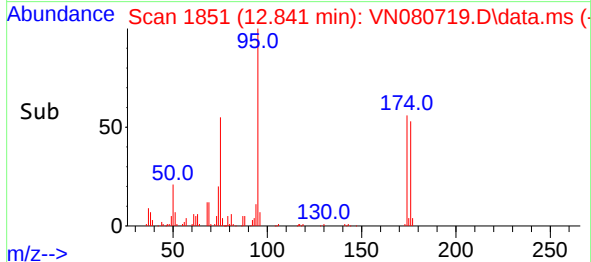
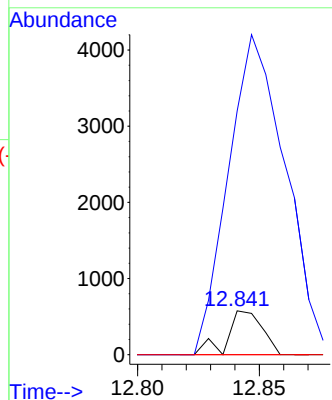


#71  
Bromoform  
Concen: 0.315 ug/l  
RT: 12.841 min Scan# 1807  
Delta R.T. 0.259 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

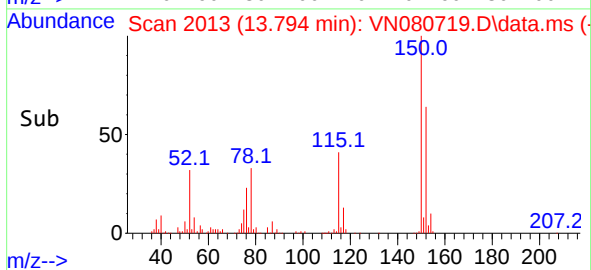
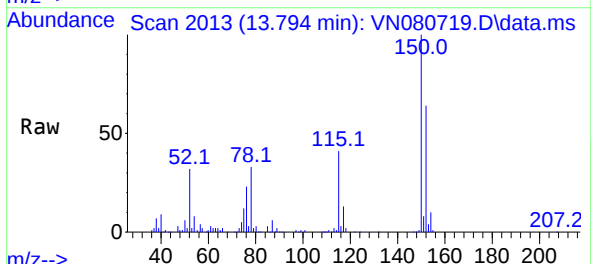
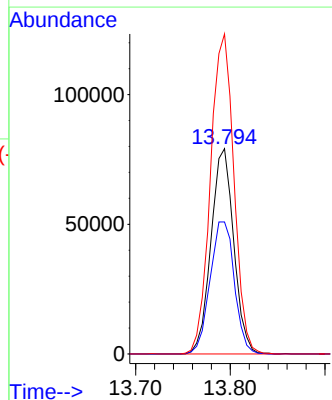


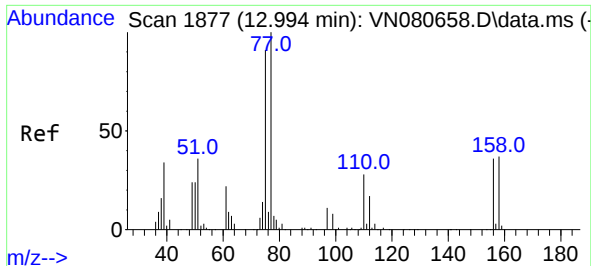
Tgt Ion:173 Resp: 572  
Ion Ratio Lower Upper  
173 100  
175 1014.3 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. -0.000 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion:152 Resp: 132473  
Ion Ratio Lower Upper  
152 100  
115 68.8 32.3 96.8  
150 160.5 0.0 355.8

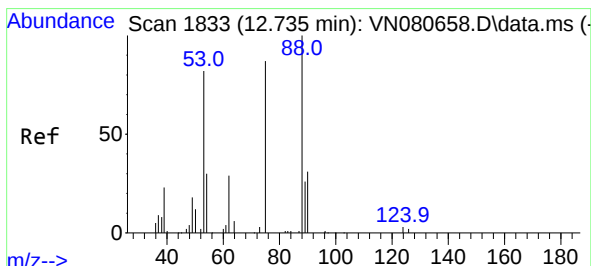
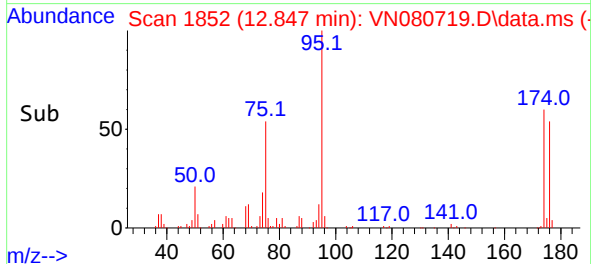
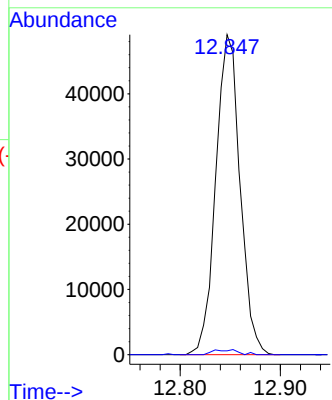
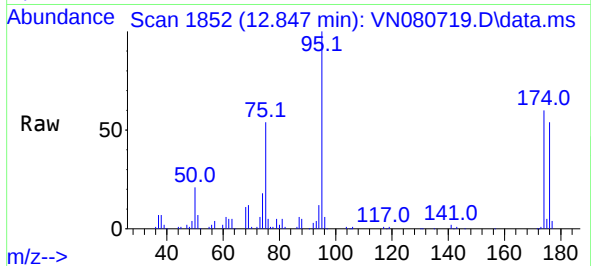




#76  
1,2,3-Trichloropropane  
Concen: 20.173 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 82407  
Ion Ratio Lower Upper  
75 100  
77 1.6 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 47.557 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN080719.D  
Acq: 15 Jan 2024 16:42

Tgt Ion: 75 Resp: 82407  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#

