

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022724\  
 Data File : VN081221.D  
 Acq On : 27 Feb 2024 15:59  
 Operator : JC\MD  
 Sample : P1590-03 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

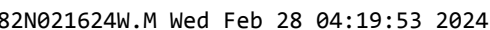
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D2-20240222

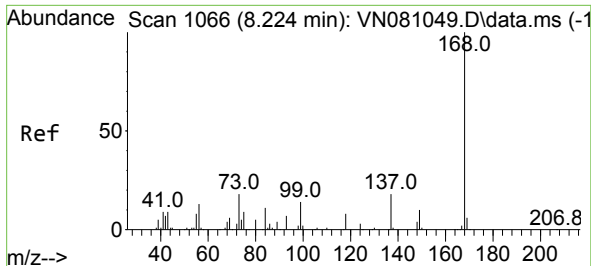
Quant Time: Feb 28 04:19:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 330970   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 621709   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 538985   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 205511   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 217217   | 53.544    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 107.080% |
| 35) Dibromofluoromethane      | 8.171  | 113   | 172126   | 48.961    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.920%  |
| 50) Toluene-d8                | 10.571 | 98    | 659646   | 52.829    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 105.660% |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 212712   | 45.337    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 90.680%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 957      | Below Cal | #      | 81       |
| 6) Chloroethane               | 3.165  | 64    | 242      | Below Cal | #      | 42       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.377  | 101   | 18640    | 4.814     | ug/l   | 95       |
| 13) Acrolein                  | 4.189  | 56    | 236      | 0.590     | ug/l   | 95       |
| 16) Acetone                   | 4.447  | 43    | 1859     | 1.165     | ug/l # | 78       |
| 18) Methyl Acetate            | 5.036  | 43    | 1052     | 0.270     | ug/l # | 66       |
| 20) Methylene Chloride        | 5.277  | 84    | 1097     | Below Cal | #      | 55       |
| 27) cis-1,2-Dichloroethene    | 7.488  | 96    | 1194     | 0.246     | ug/l   | 61       |
| 31) Cyclohexane               | 8.230  | 56    | 8679     | 1.239     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 30765    | 5.108     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 37522    | 6.158     | ug/l # | 17       |
| 39) Methylcyclohexane         | 9.353  | 83    | 2736     | 0.390     | ug/l # | 1        |
| 43) Isopropyl Acetate         | 8.677  | 43    | 34741    | 3.654     | ug/l # | 57       |
| 44) Trichloroethene           | 9.359  | 130   | 147588   | 31.785    | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.682  | 88    | 162      | Below Cal | #      | 18       |
| 60) Dibromochloromethane      | 11.112 | 129   | 2519     | 0.559     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.106 | 164   | 2424     | 0.659     | ug/l # | 73       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 116462   | 24.942    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 116462   | 64.198    | ug/l # | 14       |
| -----                         |        |       |          |           |        |          |

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

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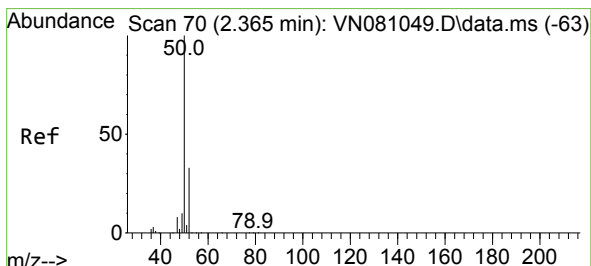
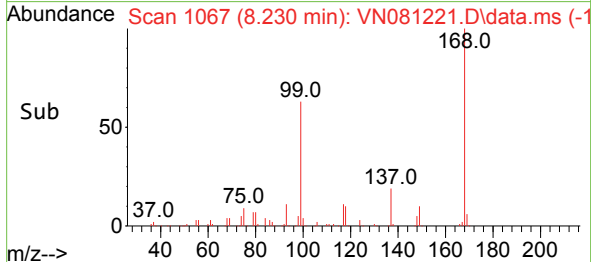
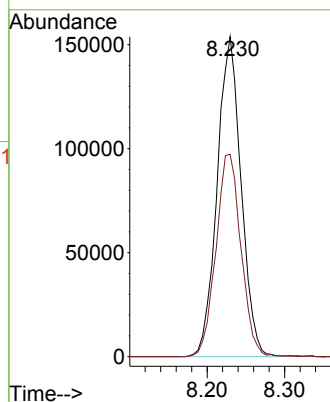
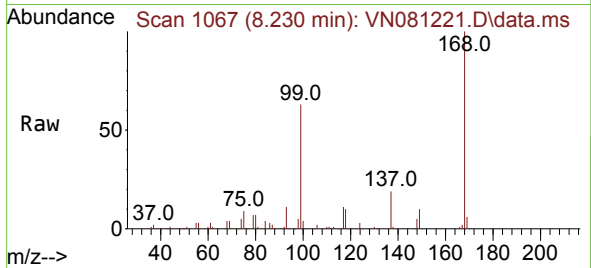




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

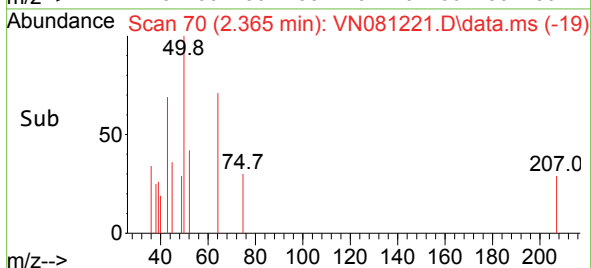
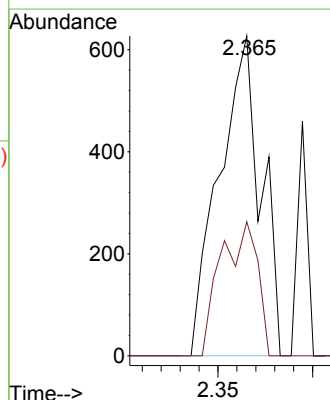
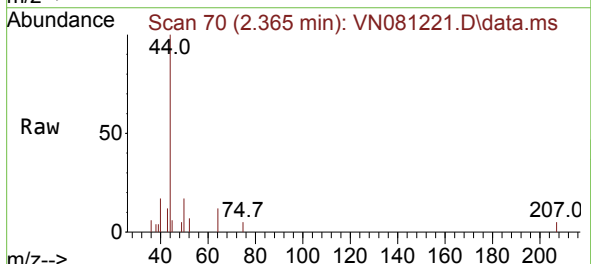
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

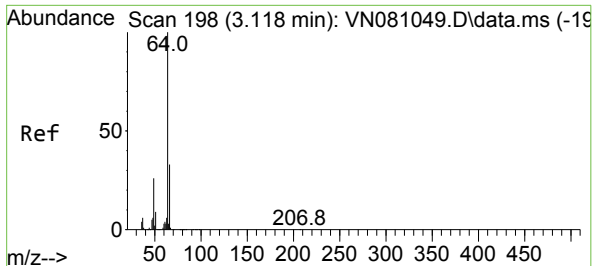
Tgt Ion:168 Resp: 330970  
Ion Ratio Lower Upper  
168 100  
99 63.2 59.9 89.9



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.000 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 50 Resp: 957  
Ion Ratio Lower Upper  
50 100  
52 41.9 25.0 37.4#

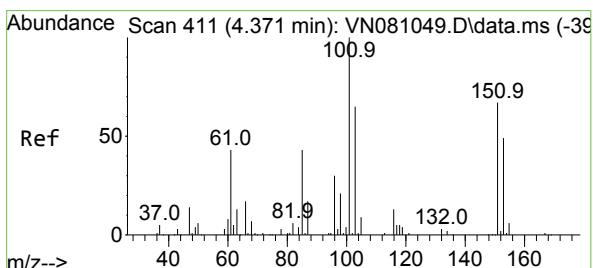
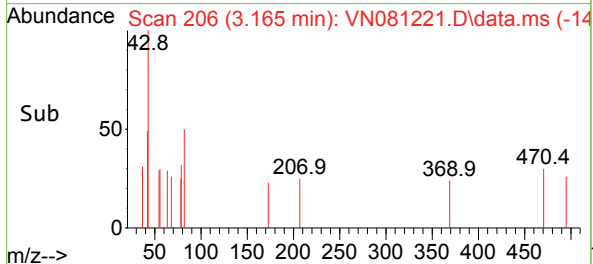
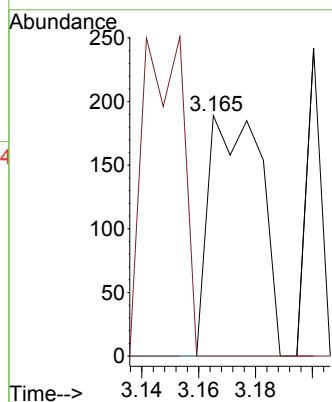
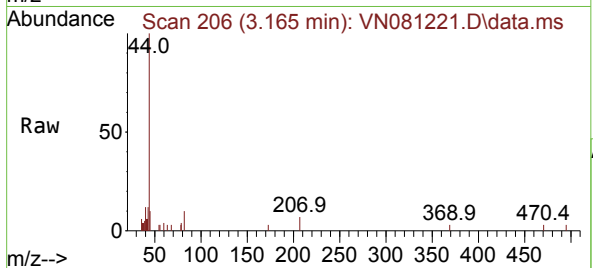




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.165 min Scan# 206  
Delta R.T. 0.047 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

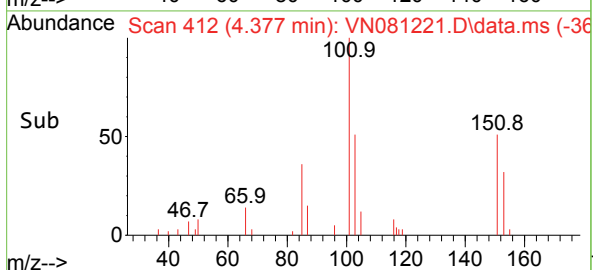
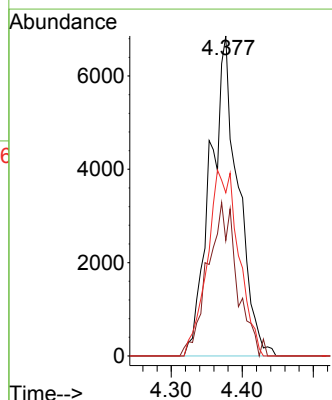
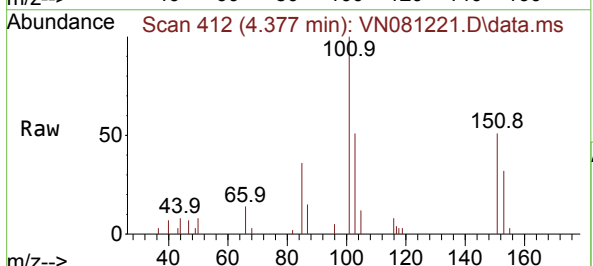
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

Tgt Ion: 64 Resp: 242  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.4 39.6#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 4.814 ug/l  
RT: 4.377 min Scan# 412  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 101 Resp: 18640  
Ion Ratio Lower Upper  
101 100  
85 50.7 38.1 57.1  
151 65.5 49.1 73.7

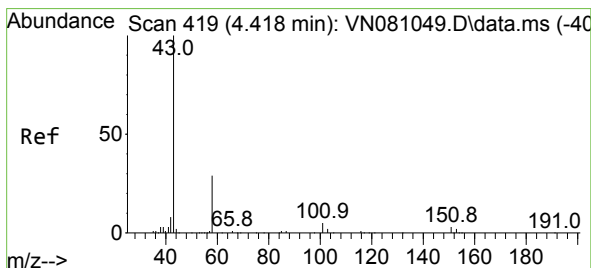
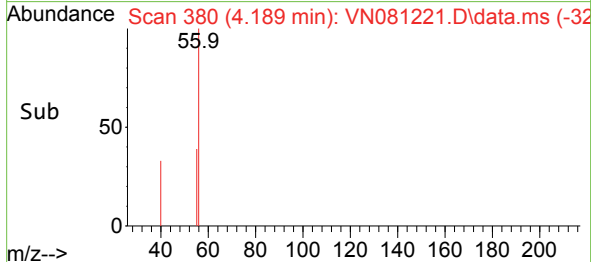
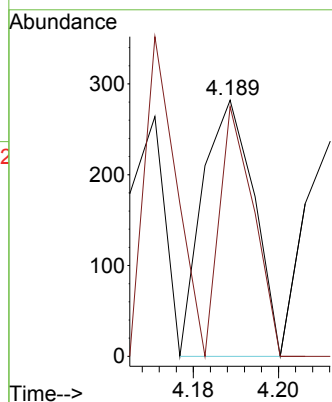
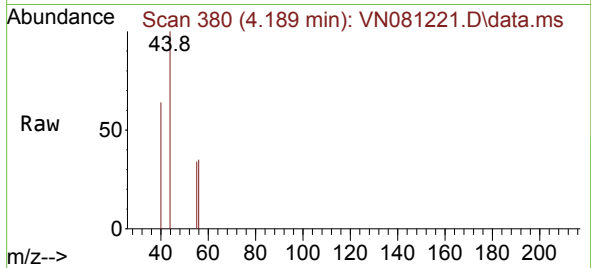




#13  
Acrolein  
Concen: 0.590 ug/l  
RT: 4.189 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

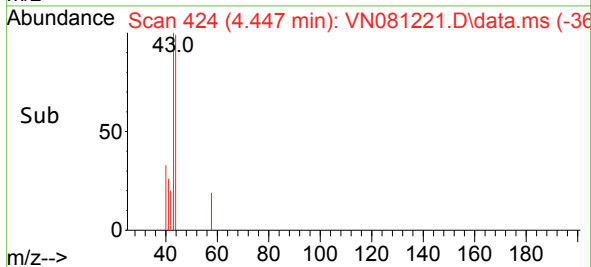
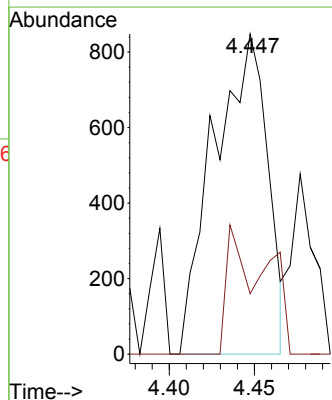
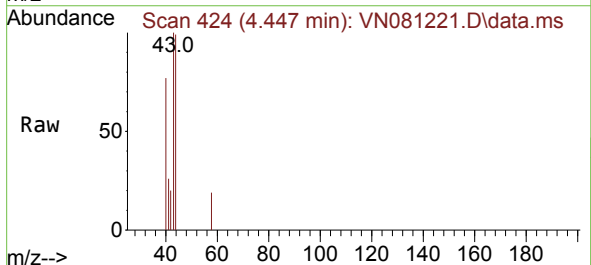
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

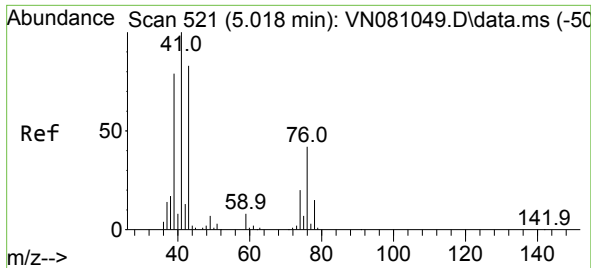
Tgt Ion: 56 Resp: 236  
Ion Ratio Lower Upper  
56 100  
55 64.8 55.3 82.9



#16  
Acetone  
Concen: 1.165 ug/l  
RT: 4.447 min Scan# 424  
Delta R.T. 0.029 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 43 Resp: 1859  
Ion Ratio Lower Upper  
43 100  
58 18.9 24.8 37.2#

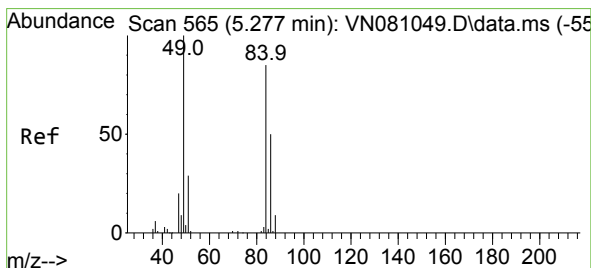
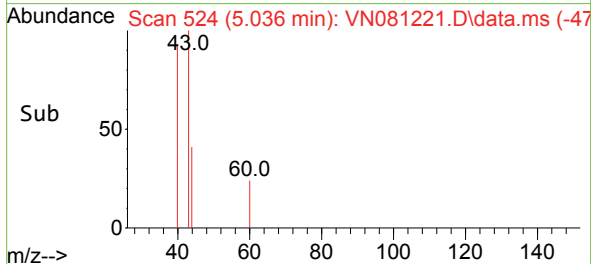
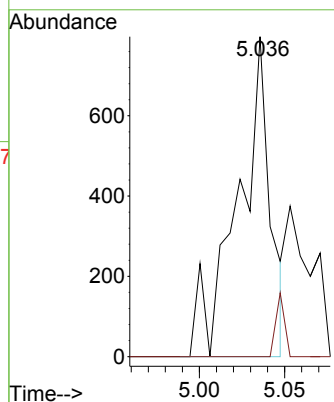
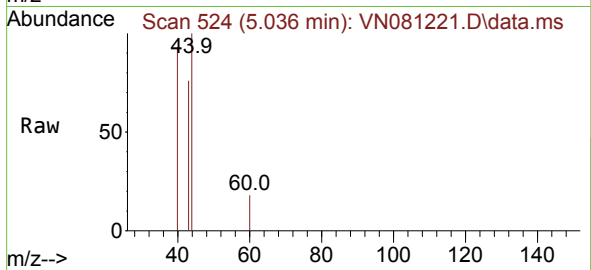




#18  
Methyl Acetate  
Concen: 0.270 ug/l  
RT: 5.036 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

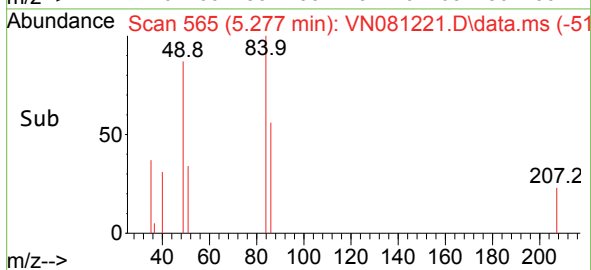
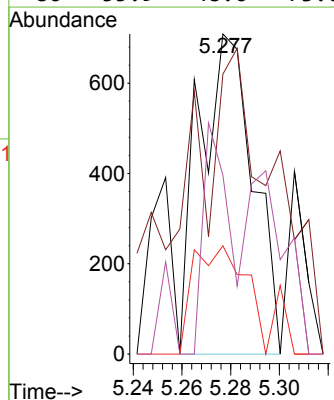
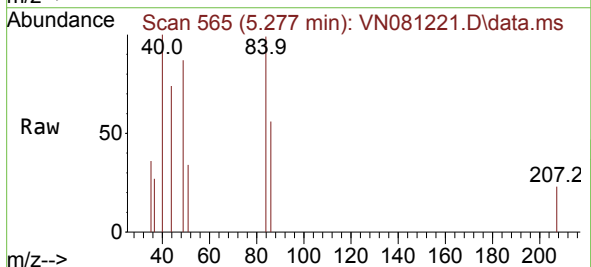
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

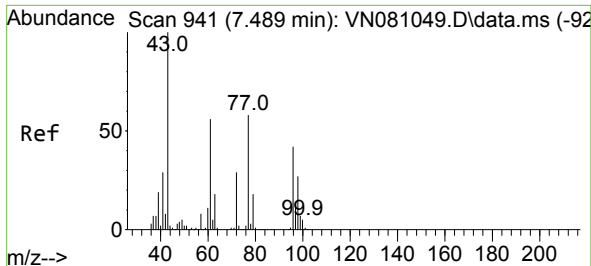
Tgt Ion: 43 Resp: 1052  
Ion Ratio Lower Upper  
43 100  
74 5.3 17.3 25.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.277 min Scan# 565  
Delta R.T. -0.000 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 84 Resp: 1097  
Ion Ratio Lower Upper  
84 100  
49 48.4 108.1 162.1#  
51 33.9 32.9 49.3  
86 55.9 48.6 73.0





#27

cis-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN081221.D

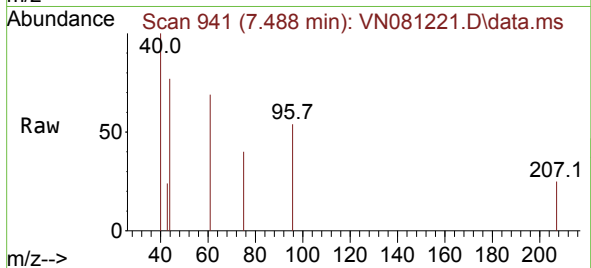
Acq: 27 Feb 2024 15:59

Instrument :

MSVOA\_N

ClientSampleId :

RE120D2-20240222



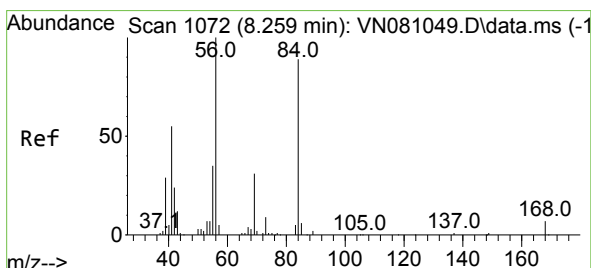
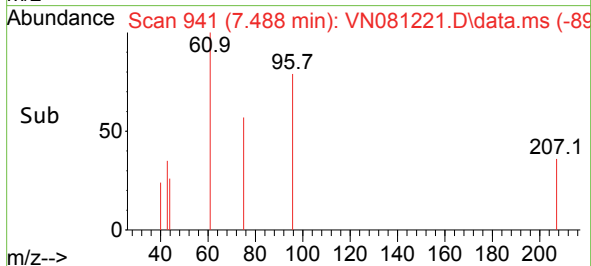
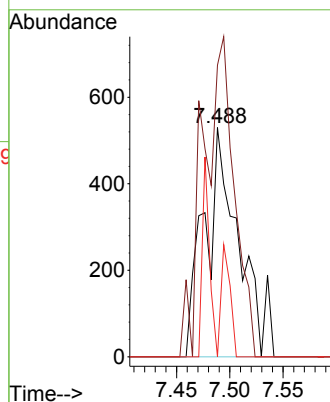
Tgt Ion: 96 Resp: 1194

Ion Ratio Lower Upper

96 100

61 125.7 0.0 325.4

98 12.5 0.0 130.4



#31

Cyclohexane

Concen: 1.239 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.030 min

Lab File: VN081221.D

Acq: 27 Feb 2024 15:59

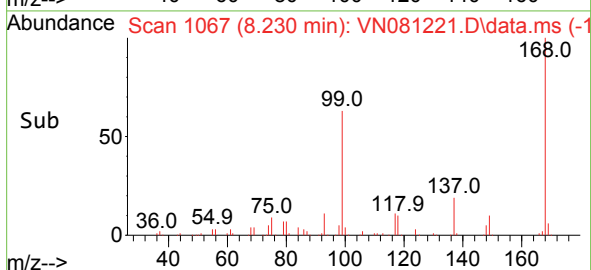
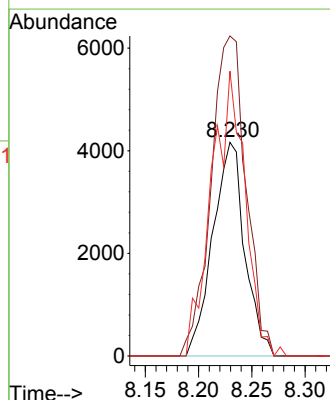
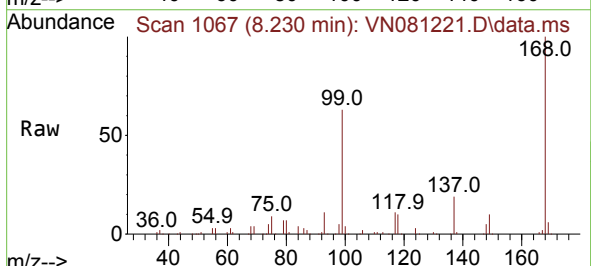
Tgt Ion: 56 Resp: 8679

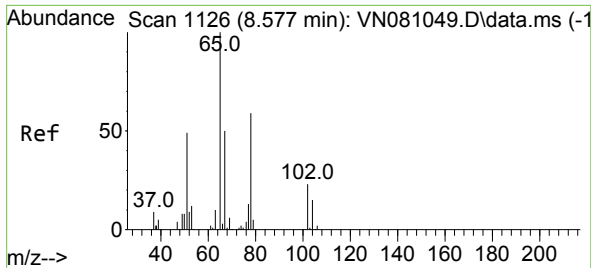
Ion Ratio Lower Upper

56 100

69 149.8 20.1 30.1#

84 133.3 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 53.544 ug/l

RT: 8.582 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081221.D

Acq: 27 Feb 2024 15:59

Instrument :

MSVOA\_N

ClientSampleId :

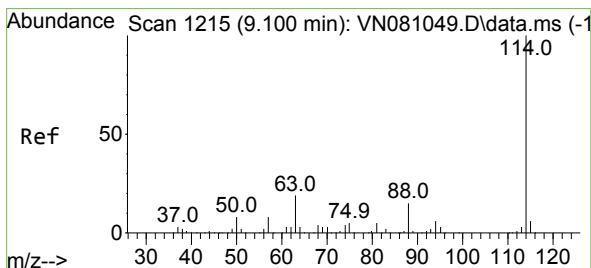
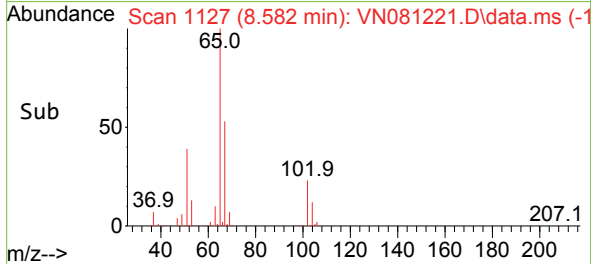
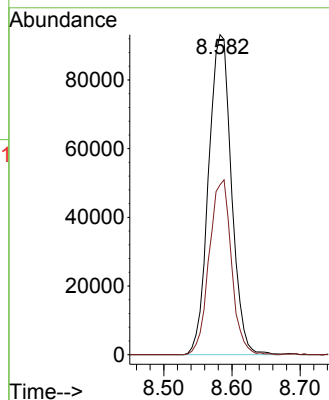
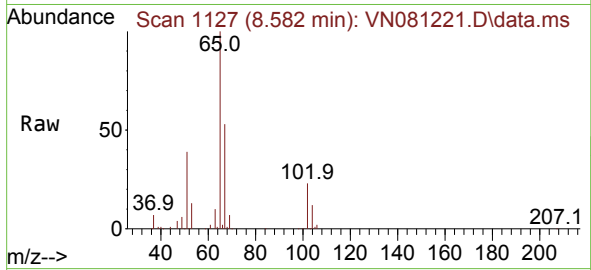
RE120D2-20240222

Tgt Ion: 65 Resp: 217217

Ion Ratio Lower Upper

65 100

67 53.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081221.D

Acq: 27 Feb 2024 15:59

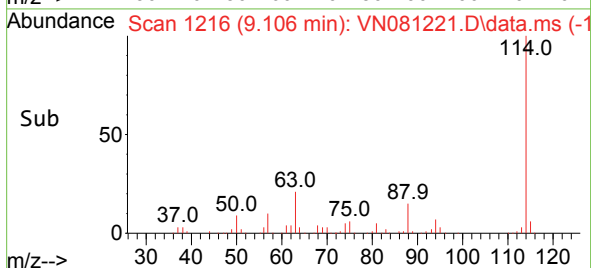
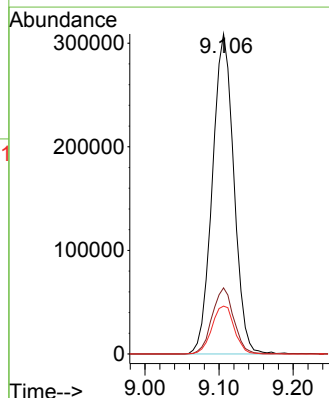
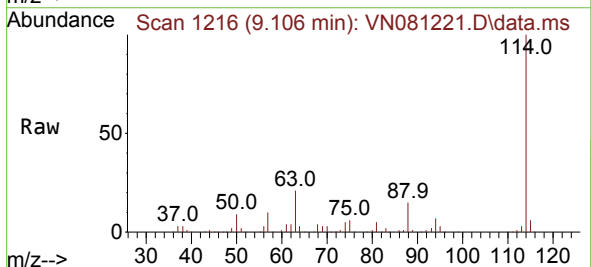
Tgt Ion: 114 Resp: 621709

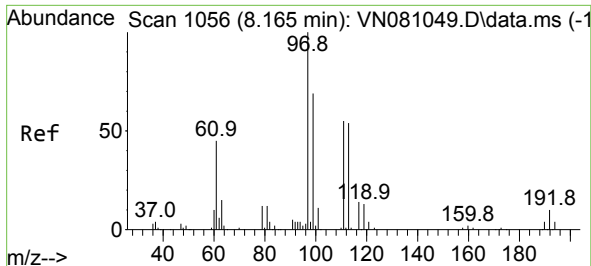
Ion Ratio Lower Upper

114 100

63 20.6 0.0 48.0

88 14.9 0.0 34.8





#35

Dibromofluoromethane

Concen: 48.961 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN081221.D

Acq: 27 Feb 2024 15:59

Instrument :

MSVOA\_N

ClientSampleId :

RE120D2-20240222

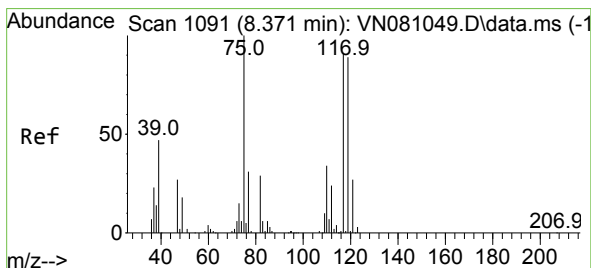
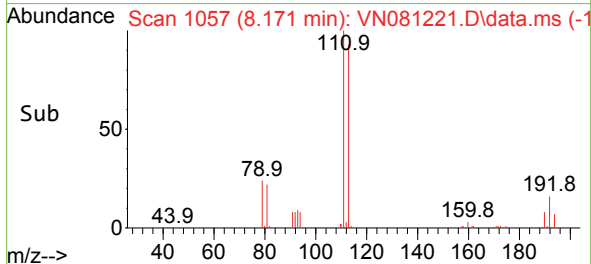
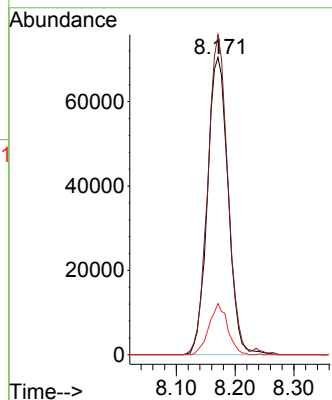
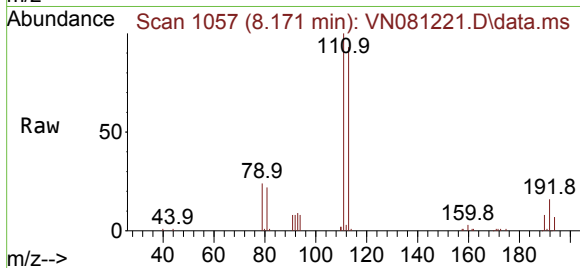
Tgt Ion:113 Resp: 172126

Ion Ratio Lower Upper

113 100

111 104.5 82.2 123.4

192 15.5 12.5 18.7



#36

1,1-Dichloropropene

Concen: 5.108 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081221.D

Acq: 27 Feb 2024 15:59

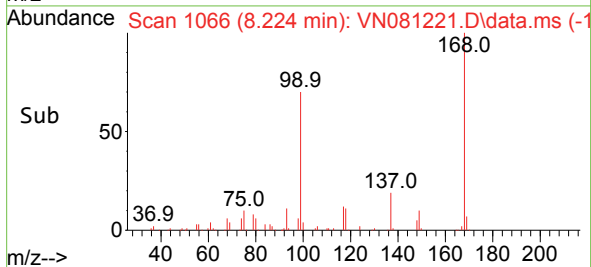
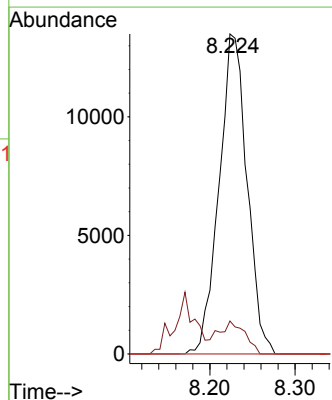
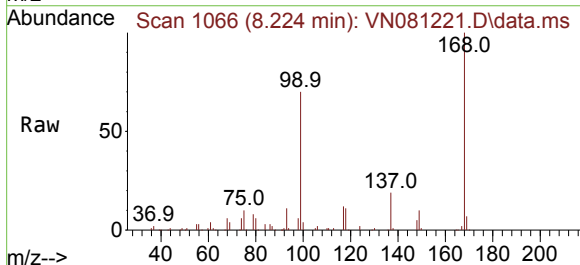
Tgt Ion: 75 Resp: 30765

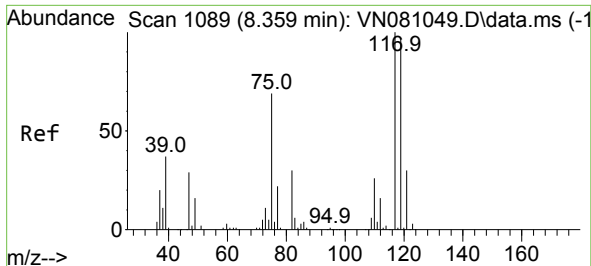
Ion Ratio Lower Upper

75 100

110 9.5 16.0 48.0#

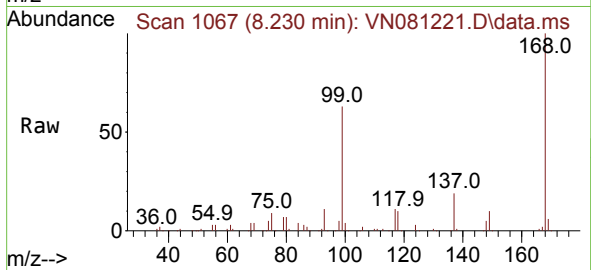
77 0.0 25.8 38.6#



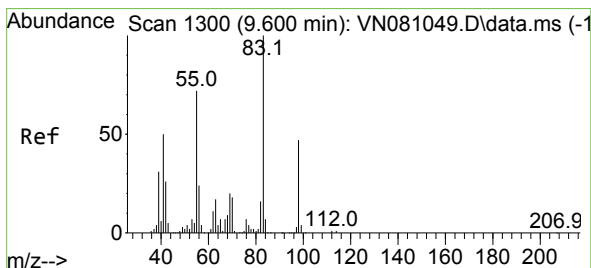
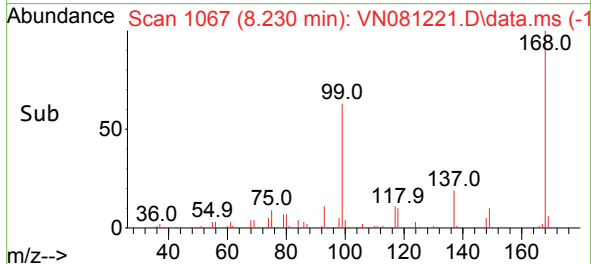
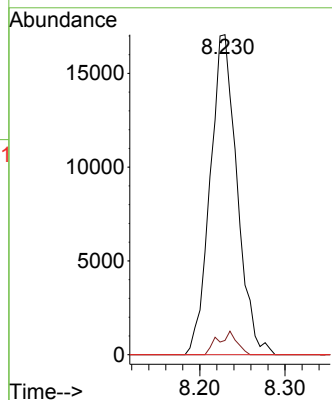


#38  
Carbon Tetrachloride  
Concen: 6.158 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.130 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

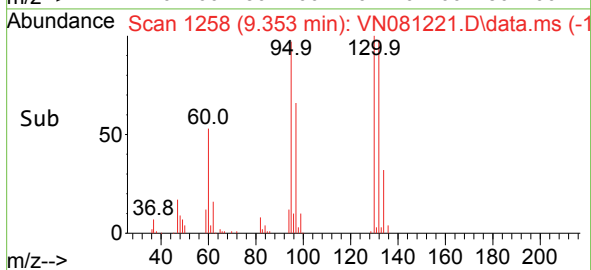
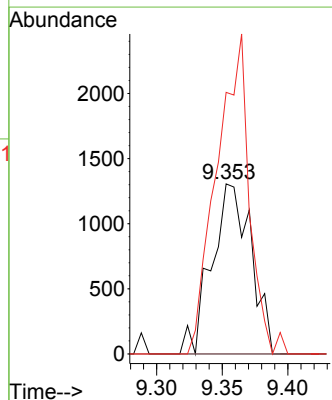
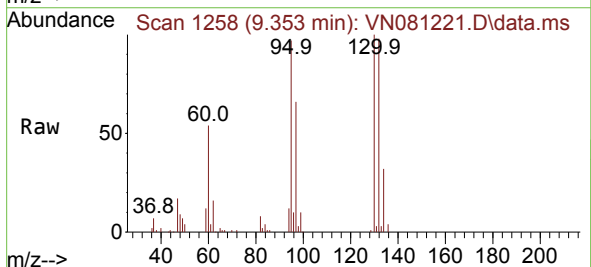


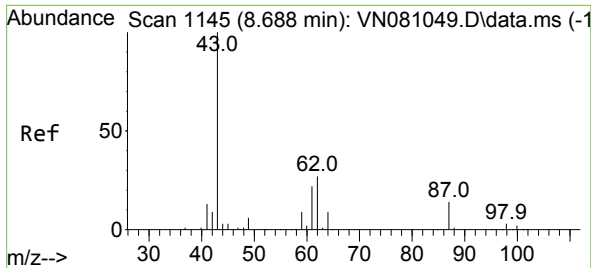
Tgt Ion:117 Resp: 37522  
Ion Ratio Lower Upper  
117 100  
119 4.4 73.4 110.2#  
121 0.0 24.4 36.6#



#39  
Methylcyclohexane  
Concen: 0.390 ug/l  
RT: 9.353 min Scan# 1258  
Delta R.T. -0.247 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 83 Resp: 2736  
Ion Ratio Lower Upper  
83 100  
55 0.0 65.7 98.5#  
98 153.8 33.8 50.6#

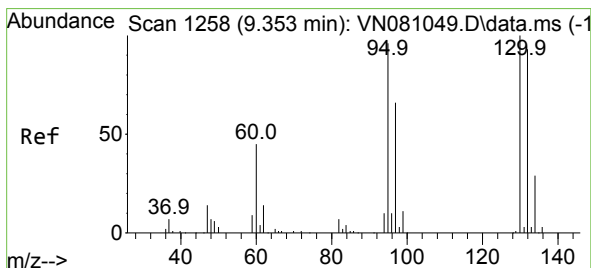
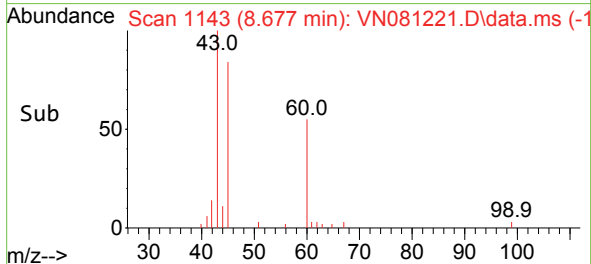
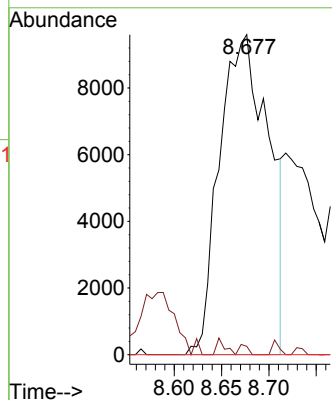
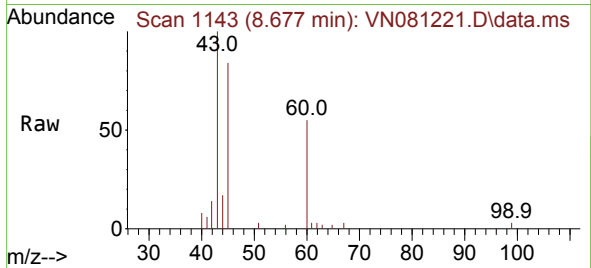




#43  
Isopropyl Acetate  
Concen: 3.654 ug/l  
RT: 8.677 min Scan# 1143  
Delta R.T. -0.012 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

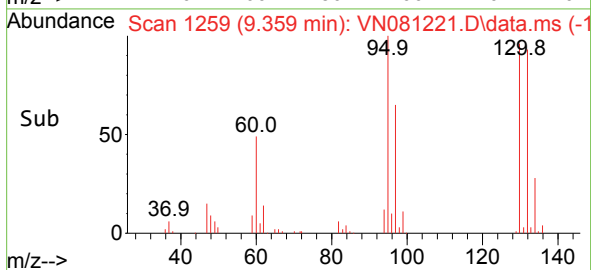
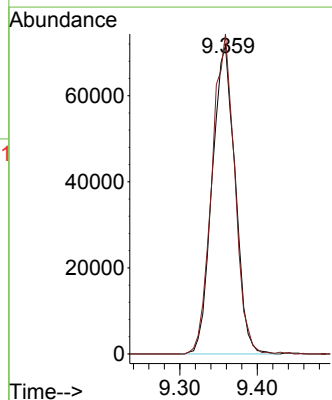
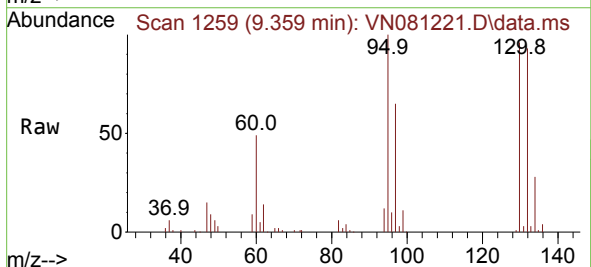
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

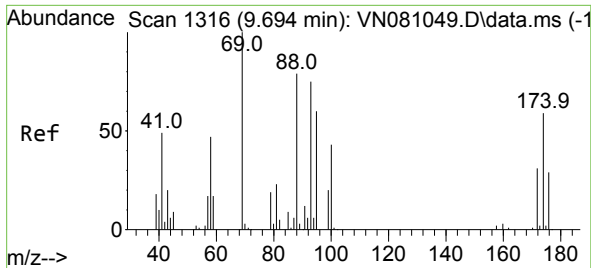
Tgt Ion: 43 Resp: 34741  
Ion Ratio Lower Upper  
43 100  
61 0.6 19.9 29.9#  
87 0.0 9.0 13.6#



#44  
Trichloroethene  
Concen: 31.785 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

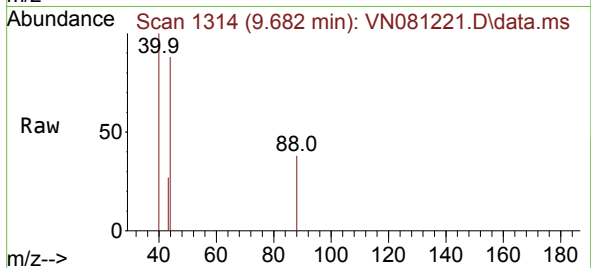
Tgt Ion:130 Resp: 147588  
Ion Ratio Lower Upper  
130 100  
95 103.7 0.0 210.4



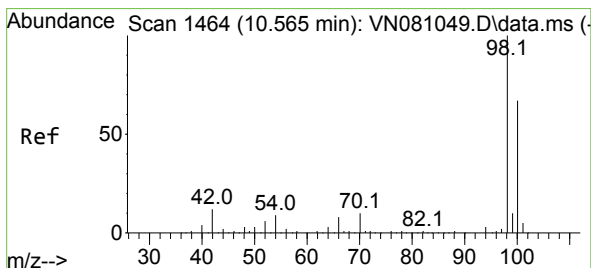
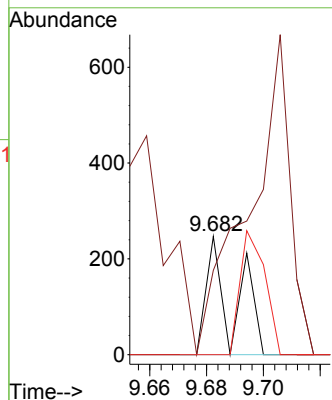
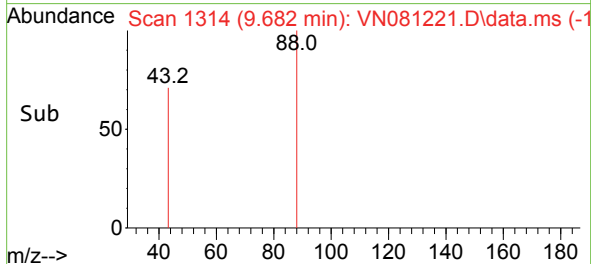


#49  
1,4-Dioxane  
Concen: Below Cal  
RT: 9.682 min Scan# 1314  
Delta R.T. -0.012 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

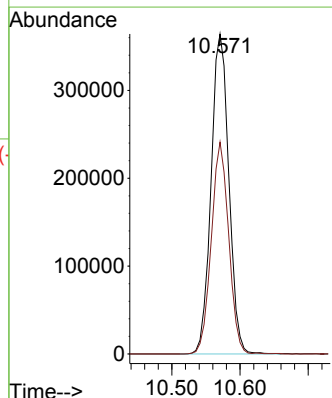
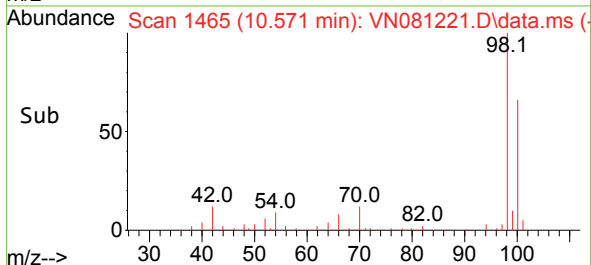
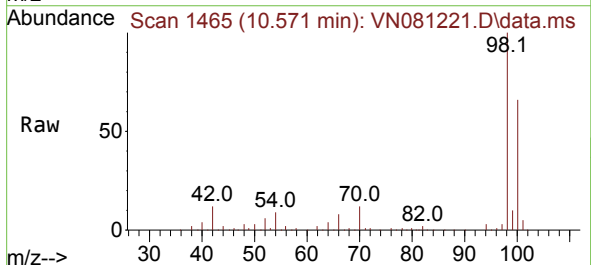


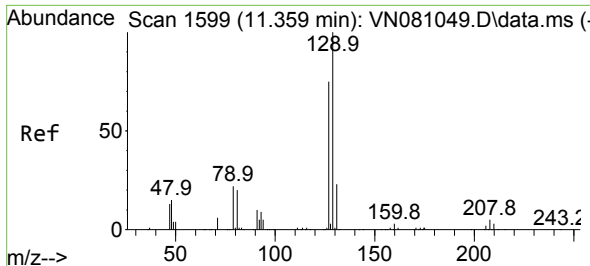
Tgt Ion: 88 Resp: 162  
Ion Ratio Lower Upper  
88 100  
43 0.0 30.1 45.1#  
58 0.0 63.9 95.9#



#50  
Toluene-d8  
Concen: 52.829 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 98 Resp: 659646  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.4 77.0

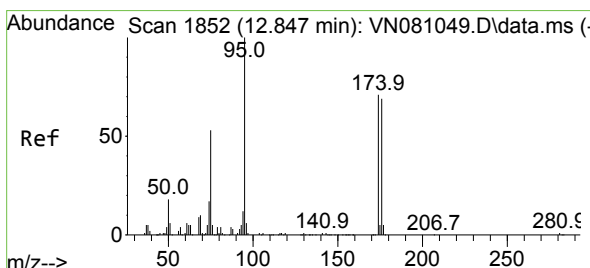
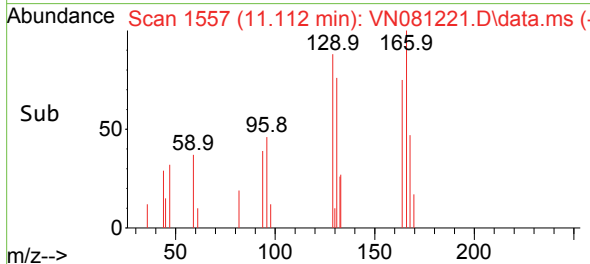
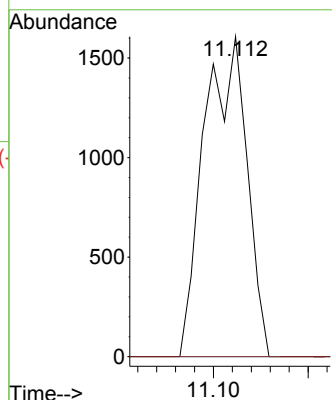
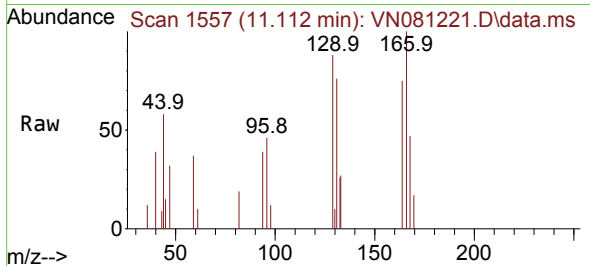




#60  
Dibromochloromethane  
Concen: 0.559 ug/l  
RT: 11.112 min Scan# 11  
Delta R.T. -0.247 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

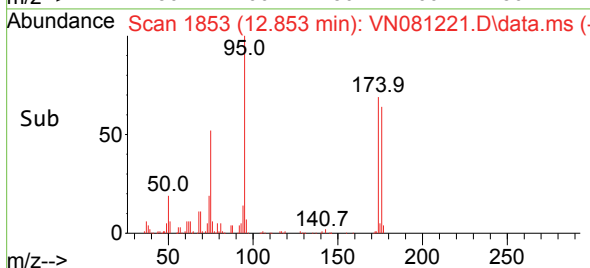
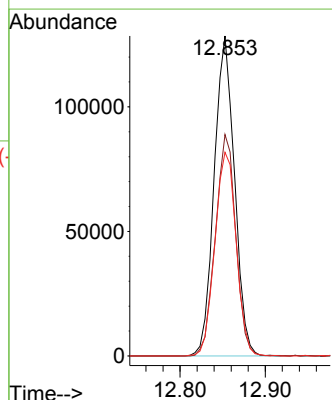
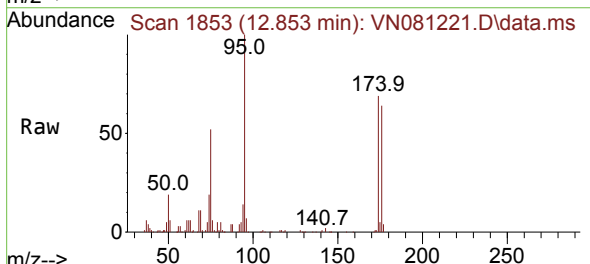
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

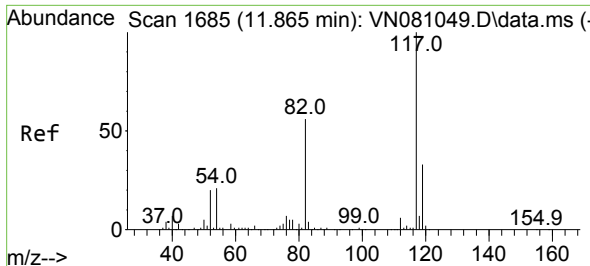
Tgt Ion:129 Resp: 2519  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.4 118.2#



#62  
4-Bromofluorobenzene  
Concen: 45.337 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion: 95 Resp: 212712  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 120.4  
176 66.8 0.0 121.0

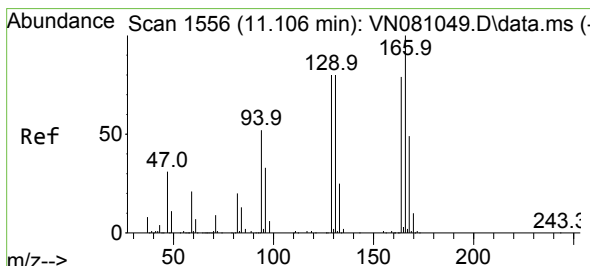
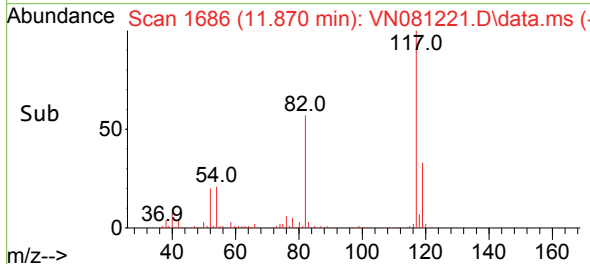
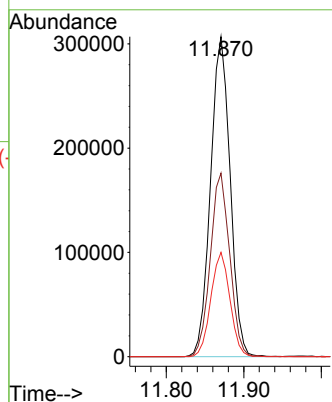
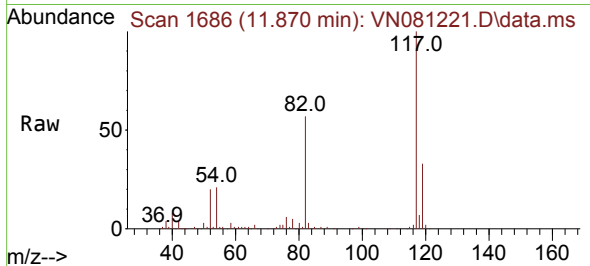




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1170  
Delta R.T. 0.006 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

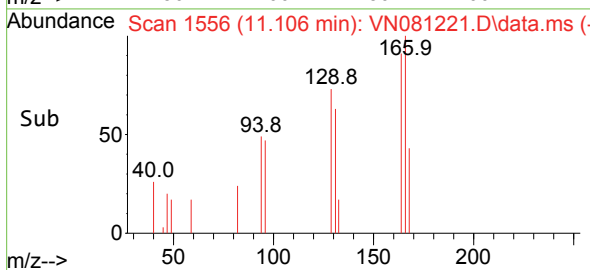
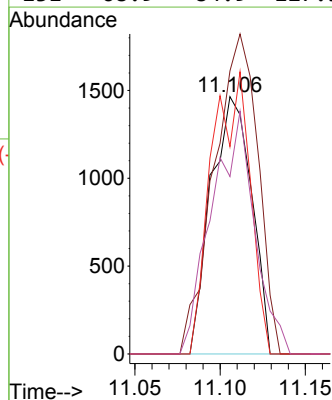
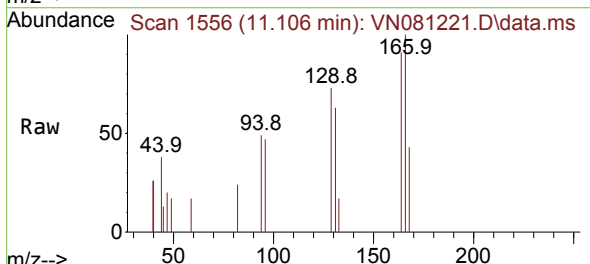
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222

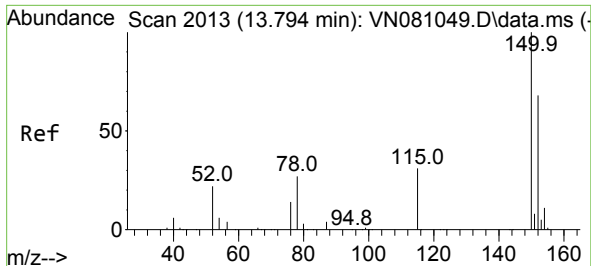
Tgt Ion:117 Resp: 538985  
Ion Ratio Lower Upper  
117 100  
82 57.4 52.7 79.1  
119 32.6 25.3 37.9



#64  
Tetrachloroethene  
Concen: 0.659 ug/l  
RT: 11.106 min Scan# 1556  
Delta R.T. -0.000 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Tgt Ion:164 Resp: 2424  
Ion Ratio Lower Upper  
164 100  
166 110.0 105.8 158.6  
129 80.6 89.6 134.4#  
131 68.9 84.9 127.3#

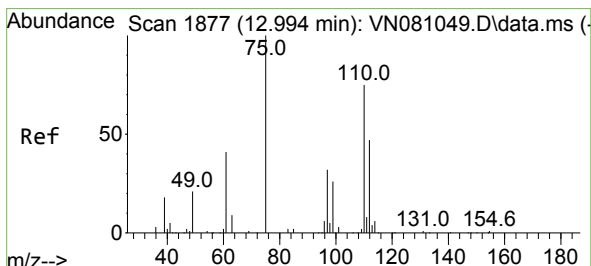
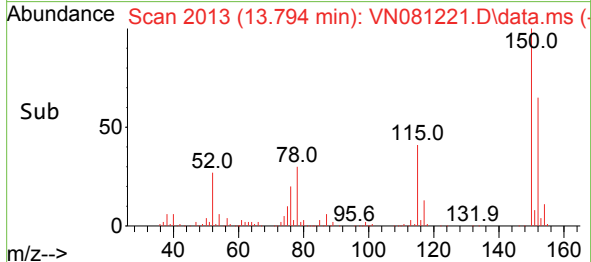
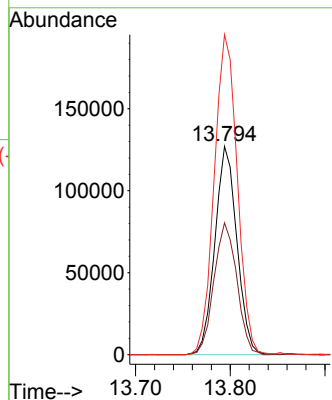
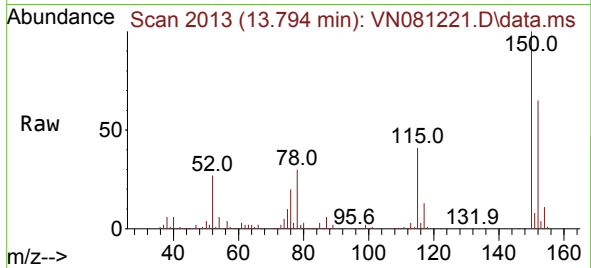




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN081221.D  
 Acq: 27 Feb 2024 15:59

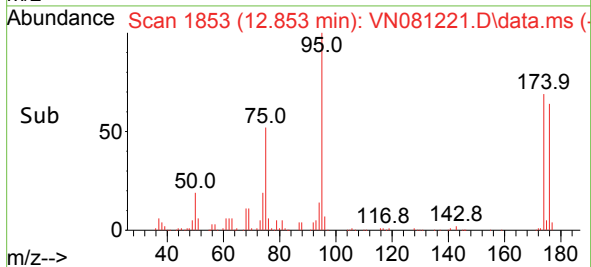
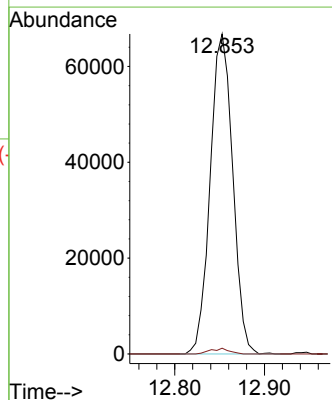
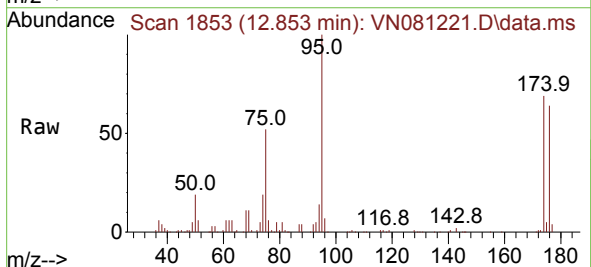
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D2-20240222

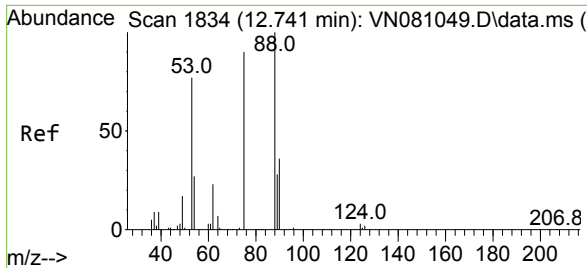
Tgt Ion:152 Resp: 205511  
 Ion Ratio Lower Upper  
 152 100  
 115 65.5 32.3 96.8  
 150 160.5 0.0 339.8



#76  
 1,2,3-Trichloropropane  
 Concen: 24.942 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN081221.D  
 Acq: 27 Feb 2024 15:59

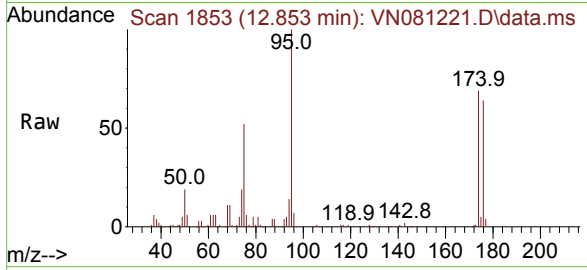
Tgt Ion: 75 Resp: 116462  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 91.0 272.8#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.198 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN081221.D  
Acq: 27 Feb 2024 15:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20240222



Tgt Ion: 75 Resp: 116462  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.4 107.2#  
89 0.2 33.4 50.0#

