

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051923\  
 Data File : VN077758.D  
 Acq On : 19 May 2023 12:51  
 Operator : JC\MD  
 Sample : 02834-11DL 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

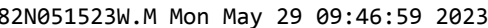
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE125D1-20230517DL

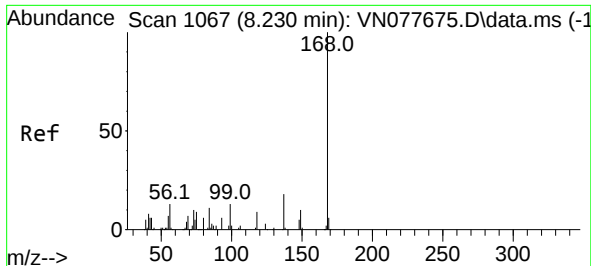
Quant Time: May 29 09:46:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------------|-------|----------|
| -----                         |                |      |            |               |       |          |
| Internal Standards            |                |      |            |               |       |          |
| 1) Pentafluorobenzene         | 8.235          | 168  | 362183     | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 656804     | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 576493     | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 200245     | 50.000        | ug/l  | 0.00     |
|                               |                |      |            |               |       |          |
| System Monitoring Compounds   |                |      |            |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 247885     | 45.742        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 91.480%       |       |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 206605     | 48.239        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 96.480%       |       |          |
| 50) Toluene-d8                | 10.576         | 98   | 808269     | 49.029        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 98.060%       |       |          |
| 62) 4-Bromofluorobenzene      | 12.859         | 95   | 269382     | 46.267        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 92.540%       |       |          |
|                               |                |      |            |               |       |          |
| Target Compounds              |                |      |            |               |       |          |
| 3) Chloromethane              | 2.377          | 50   | 1186       | Below Cal     |       | 96       |
| 9) 1,1,2-Trichlorotrifluo...  | 4.394          | 101  | 3867       | 0.965 ug/l #  |       | 80       |
| 10) Methyl Iodide             | 4.600          | 142  | 1172       | 0.245 ug/l #  |       | 76       |
| 13) Acrolein                  | 4.189          | 56   | 349        | Below Cal     |       | 94       |
| 16) Acetone                   | 4.453          | 43   | 1017       | 0.596 ug/l #  |       | 83       |
| 20) Methylene Chloride        | 5.289          | 84   | 2453       | Below Cal #   |       | 71       |
| 27) cis-1,2-Dichloroethene    | 7.488          | 96   | 1629       | 0.317 ug/l #  |       | 1        |
| 31) Cyclohexane               | 8.229          | 56   | 8323       | 1.130 ug/l #  |       | 55       |
| 36) 1,1-Dichloropropene       | 8.229          | 75   | 31551      | 5.036 ug/l #  |       | 48       |
| 38) Carbon Tetrachloride      | 8.235          | 117  | 39163      | 6.191 ug/l #  |       | 16       |
| 39) Methylcyclohexane         | 9.359          | 83   | 2582       | 0.337 ug/l #  |       | 1        |
| 44) Trichloroethene           | 9.359          | 130  | 171797     | 36.702 ug/l   |       | 98       |
| 49) 1,4-Dioxane               | 9.700          | 88   | 215        | 2.633 ug/l #  |       | 62       |
| 59) 2-Hexanone                | 11.194         | 43   | 1057       | 0.264 ug/l #  |       | 28       |
| 60) Dibromochloromethane      | 11.112         | 129  | 9109       | 1.931 ug/l #  |       | 11       |
| 64) Tetrachloroethene         | 11.112         | 164  | 8553       | 2.122 ug/l    |       | 88       |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 139443     | 27.806 ug/l # |       | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 139443     | 88.882 ug/l # |       | 15       |
| 95) Naphthalene               | 15.647         | 128  | 3236       | 0.236 ug/l #  |       | 86       |
| 96) 1,2,3-Trichlorobenzene    | 15.858         | 180  | 796        | 0.204 ug/l #  |       | 68       |
| -----                         |                |      |            |               |       |          |

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

Quant Time: May 29 09:46:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
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Response via : Initial Calibration

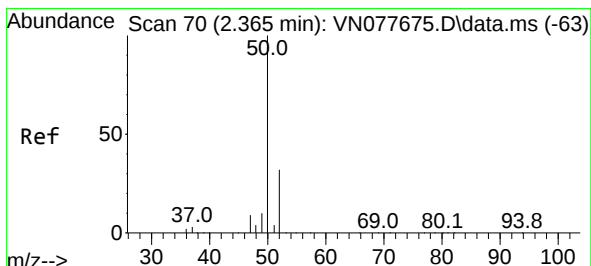
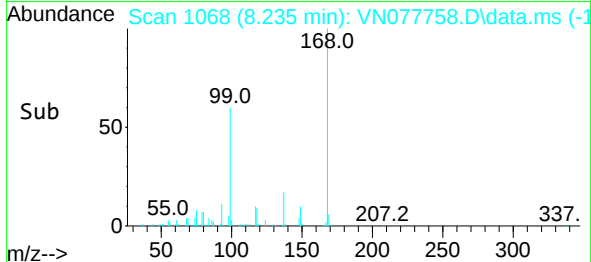
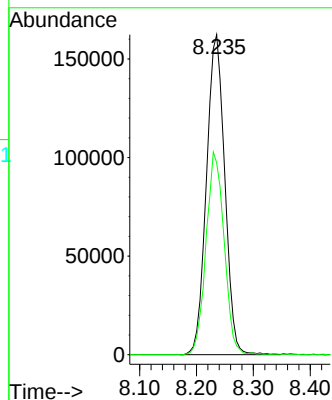
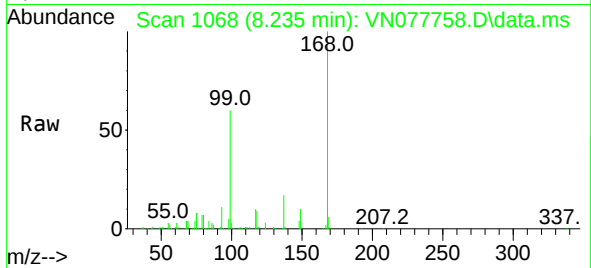




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 10  
Delta R.T. 0.005 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

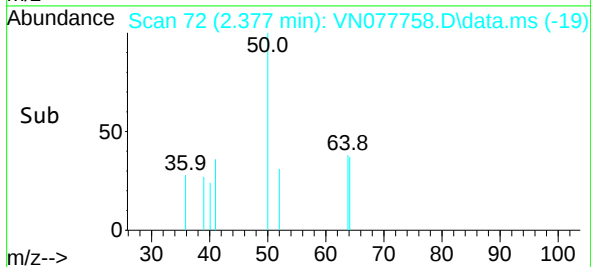
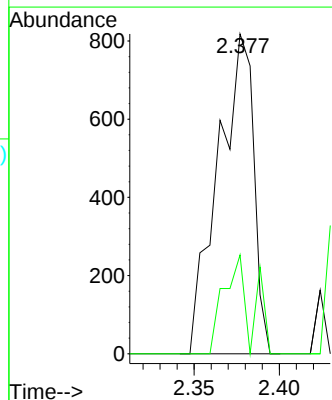
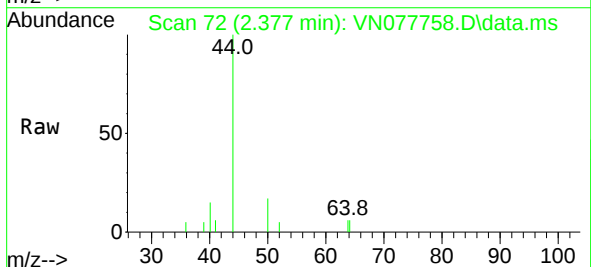
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

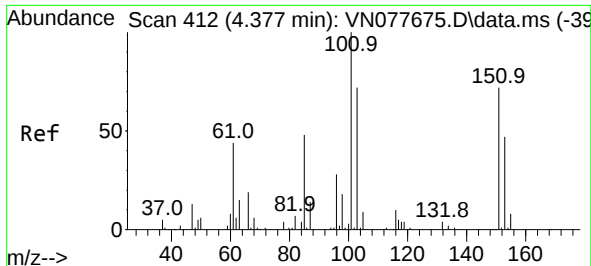
Tgt Ion:168 Resp: 362183  
Ion Ratio Lower Upper  
168 100  
99 59.9 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.012 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion: 50 Resp: 1186  
Ion Ratio Lower Upper  
50 100  
52 30.9 26.5 39.7

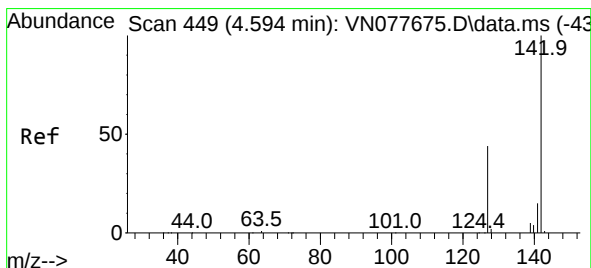
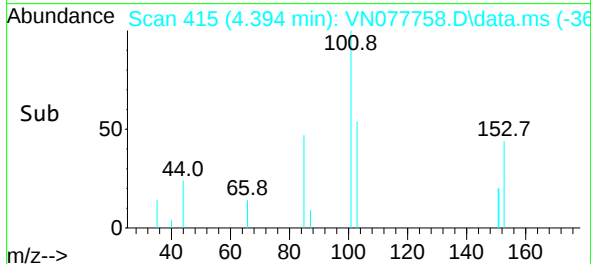
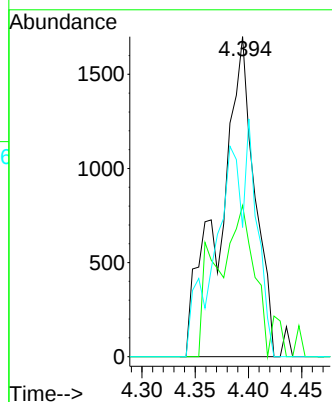
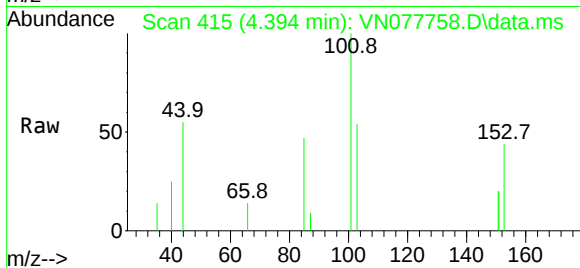




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.965 ug/l  
RT: 4.394 min Scan# 41  
Delta R.T. 0.017 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

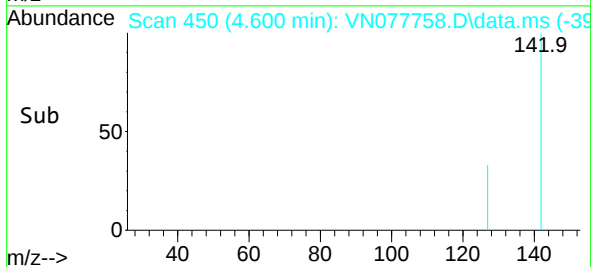
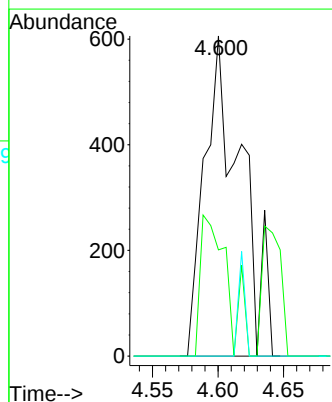
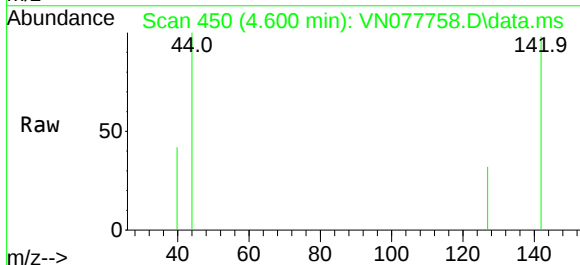
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

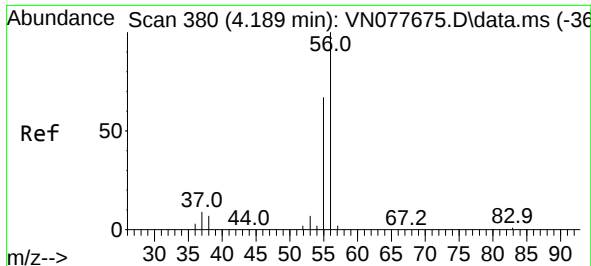
Tgt Ion:101 Resp: 3867  
Ion Ratio Lower Upper  
101 100  
85 35.5 36.6 55.0#  
151 52.3 57.6 86.4#



#10  
Methyl Iodide  
Concen: 0.245 ug/l  
RT: 4.600 min Scan# 450  
Delta R.T. 0.006 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion:142 Resp: 1172  
Ion Ratio Lower Upper  
142 100  
127 33.2 37.6 56.4#  
141 0.0 11.4 17.0#

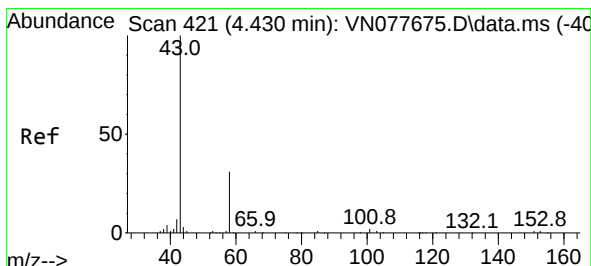
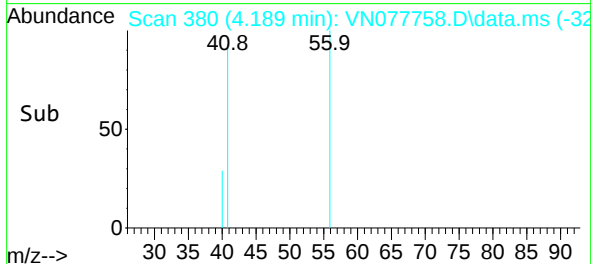
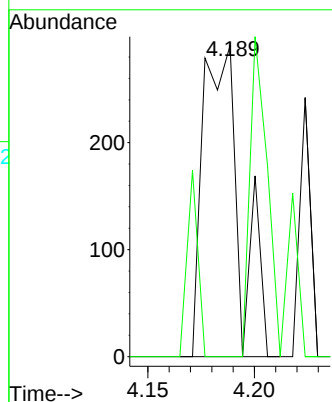
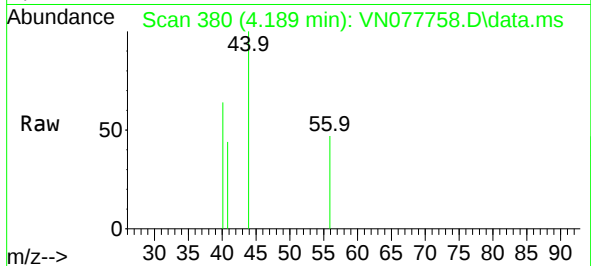




#13  
Acrolein  
Concen: Below Cal  
RT: 4.189 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

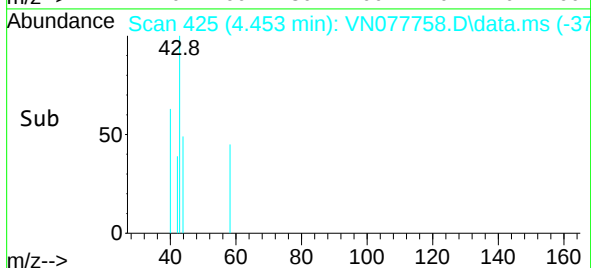
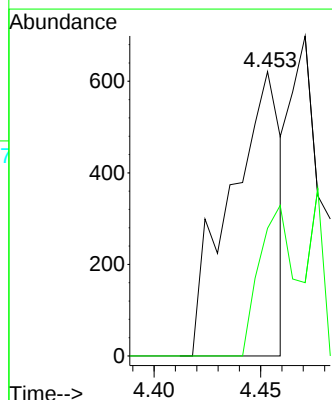
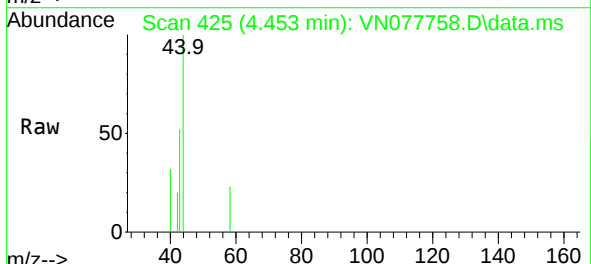
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

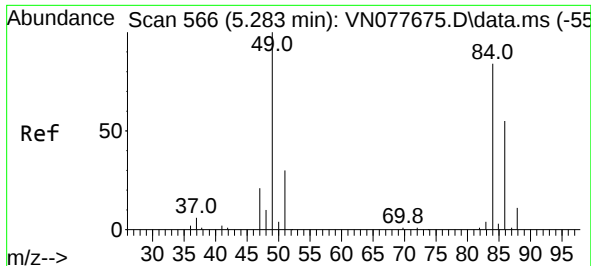
Tgt Ion: 56 Resp: 349  
Ion Ratio Lower Upper  
56 100  
55 63.6 54.5 81.7



#16  
Acetone  
Concen: 0.596 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.023 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

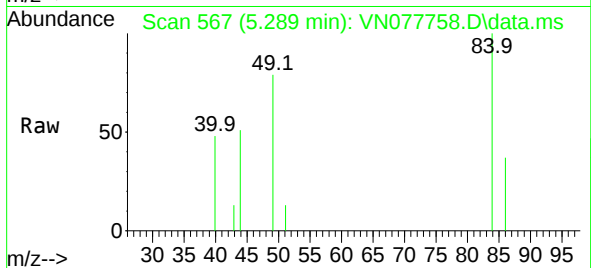
Tgt Ion: 43 Resp: 1017  
Ion Ratio Lower Upper  
43 100  
58 44.9 28.0 42.0#



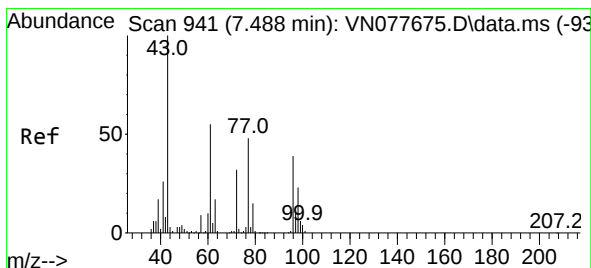
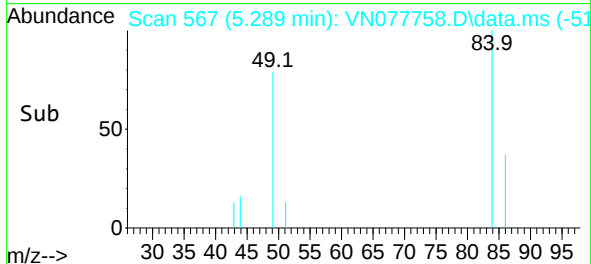
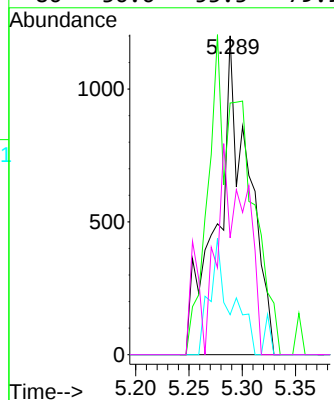


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.289 min Scan# 51  
Delta R.T. 0.005 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

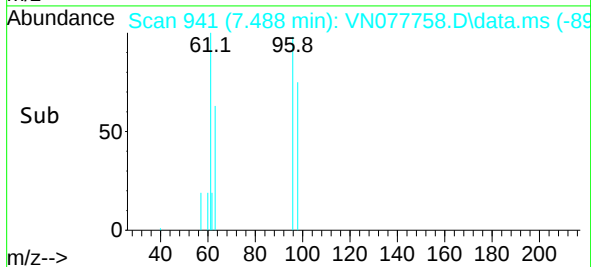
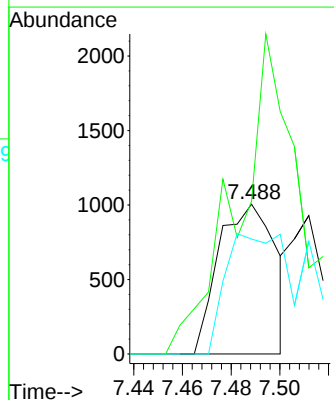
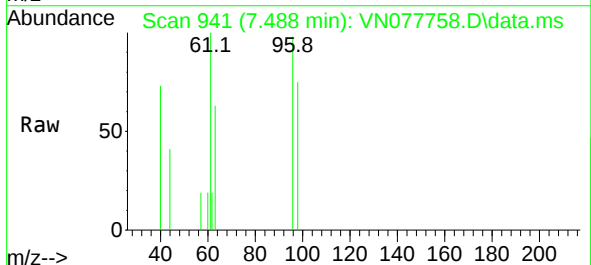


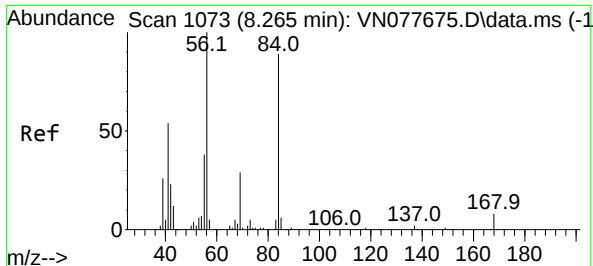
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2453   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 78.9  | 79.7  | 119.5# |
| 51       | 12.6  | 25.2  | 37.8#  |
| 86       | 36.6  | 53.3  | 79.9#  |



#27  
cis-1,2-Dichloroethene  
Concen: 0.317 ug/l  
RT: 7.488 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

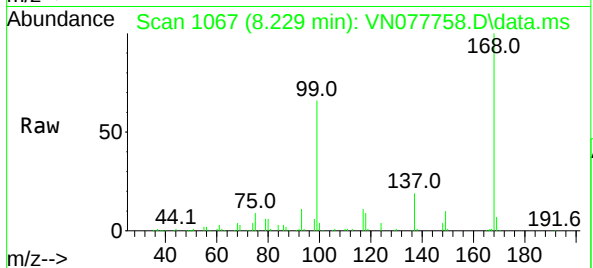
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 1629   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 259.1 | 0.0   | 255.2# |
| 98       | 121.2 | 0.0   | 128.8  |



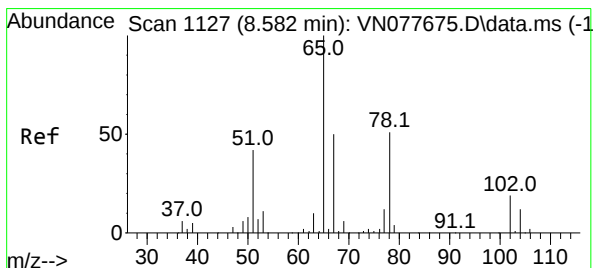
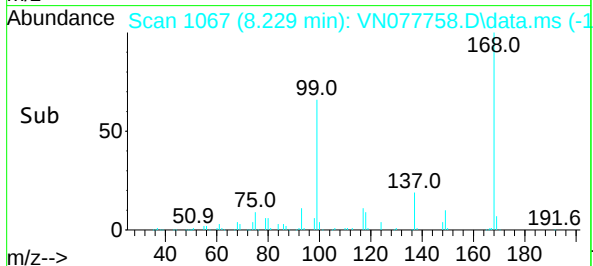
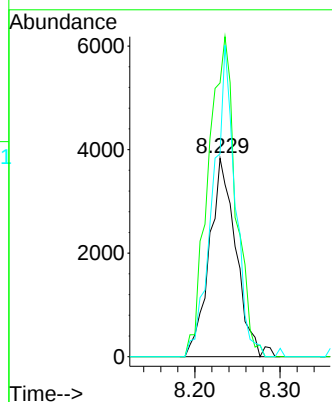


#31  
Cyclohexane  
Concen: 1.130 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.036 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Instrument :  
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ClientSampleId :  
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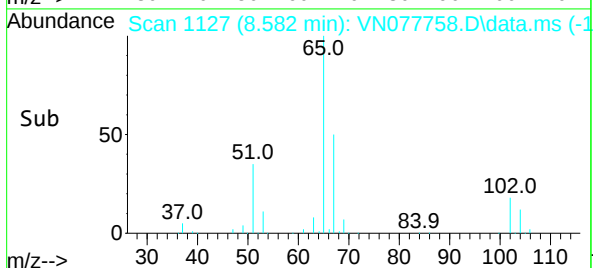
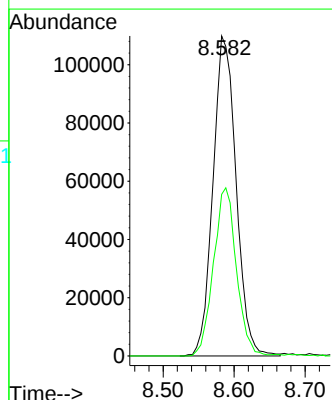
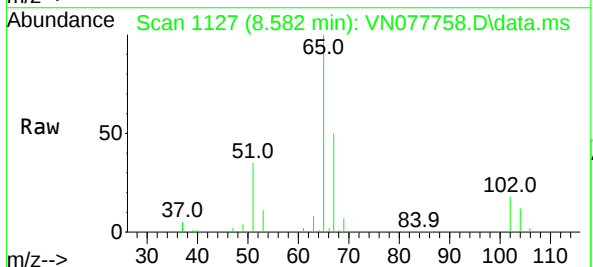


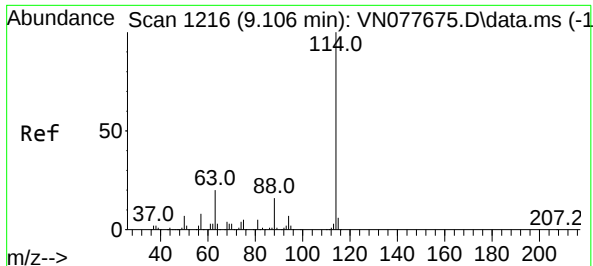
Tgt Ion: 56 Resp: 8323  
Ion Ratio Lower Upper  
56 100  
69 137.9 26.8 40.2#  
84 102.2 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 45.742 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. 0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion: 65 Resp: 247885  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN077758.D

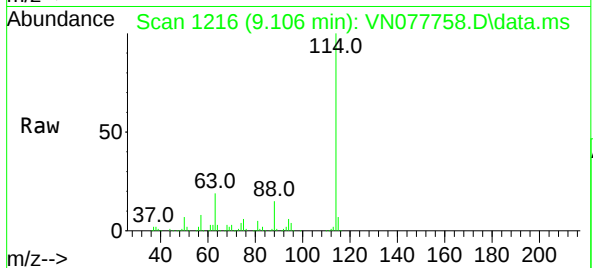
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Instrument :

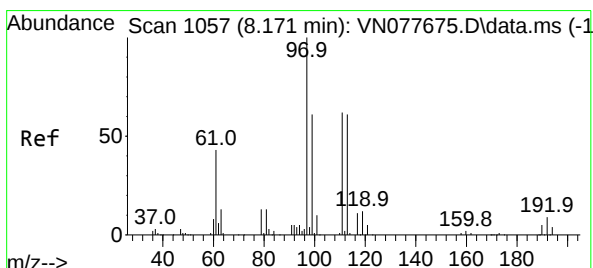
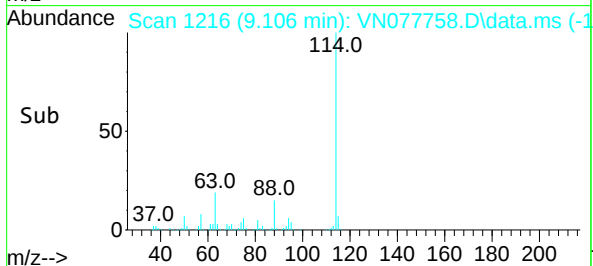
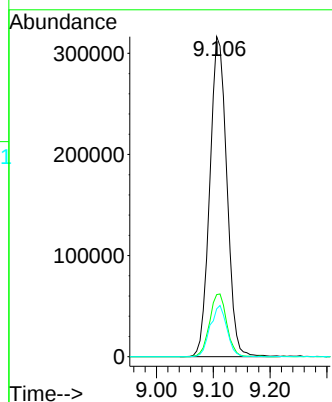
MSVOA\_N

ClientSampleId :

RE125D1-20230517DL



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 114   | Resp: | 656804 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 19.4  | 0.0   | 36.4   |
| 88        | 14.9  | 0.0   | 30.6   |



#35

Dibromofluoromethane

Concen: 48.239 ug/l

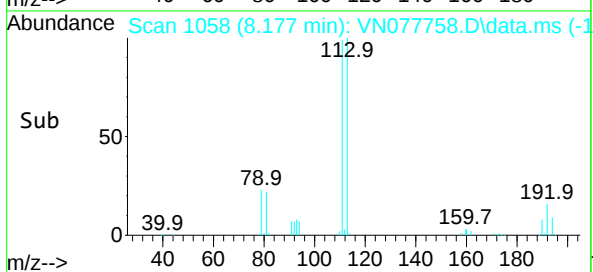
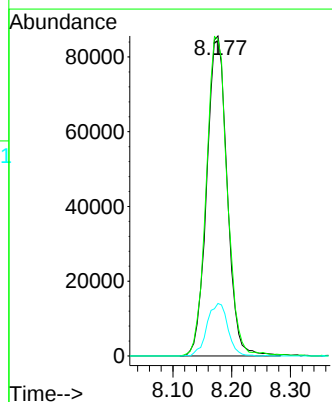
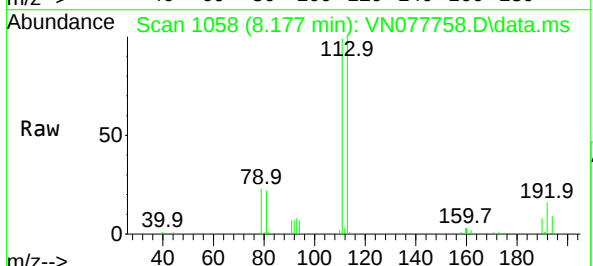
RT: 8.177 min Scan# 1058

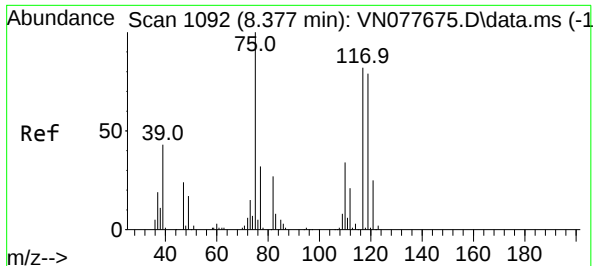
Delta R.T. 0.006 min

Lab File: VN077758.D

Acq: 19 May 2023 12:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 206605 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.7 | 82.6  | 123.8  |
| 192       | 16.8  | 12.7  | 19.1   |

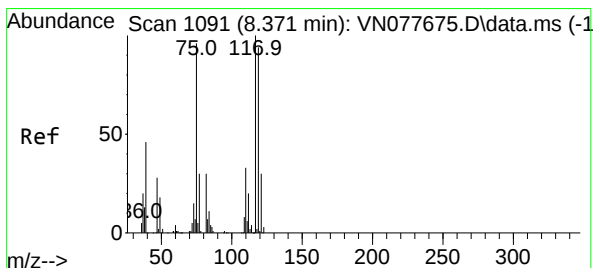
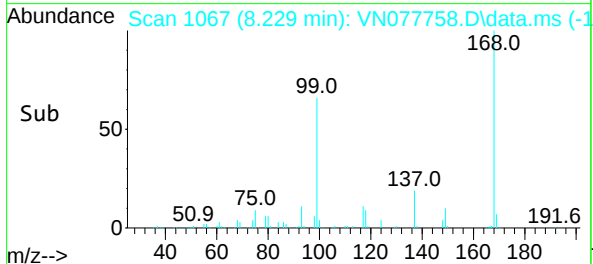
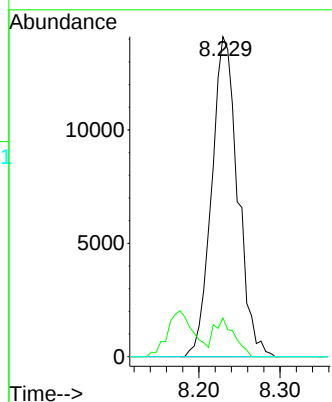
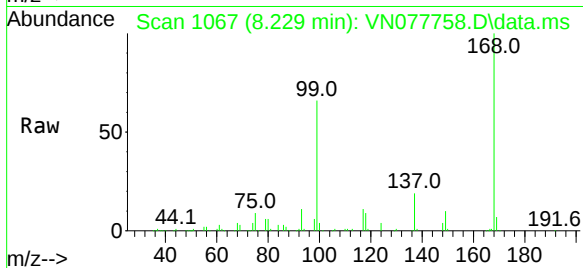




#36  
1,1-Dichloropropene  
Concen: 5.036 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.148 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

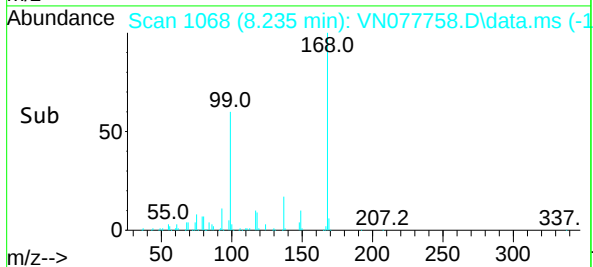
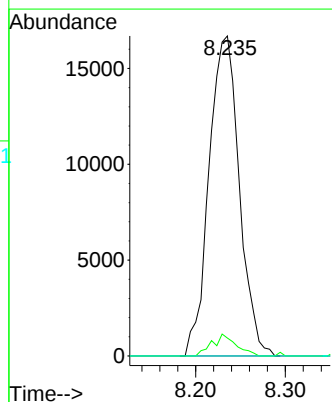
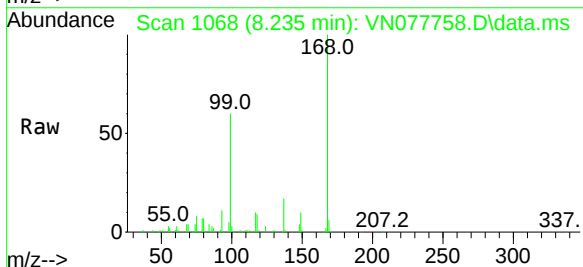
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

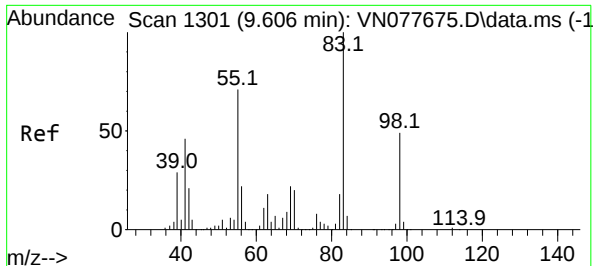
Tgt Ion: 75 Resp: 31551  
Ion Ratio Lower Upper  
75 100  
110 9.2 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 6.191 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.136 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion: 117 Resp: 39163  
Ion Ratio Lower Upper  
117 100  
119 5.6 77.3 115.9#  
121 0.0 23.3 34.9#

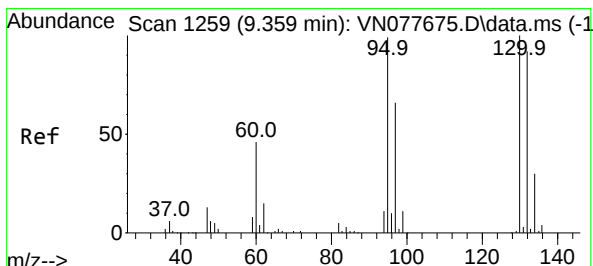
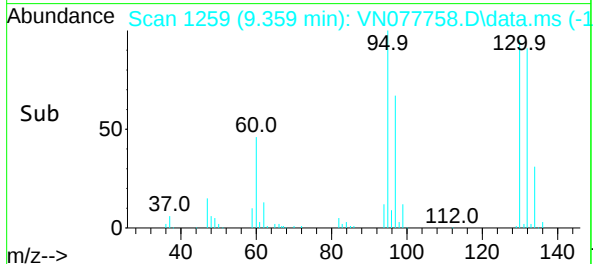
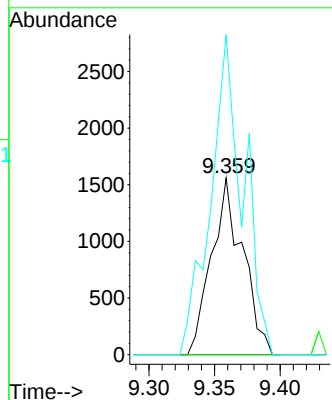
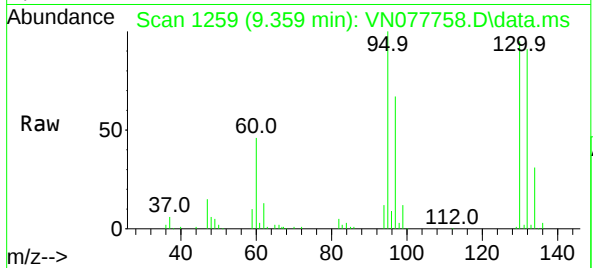




#39  
Methylcyclohexane  
Concen: 0.337 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. -0.247 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

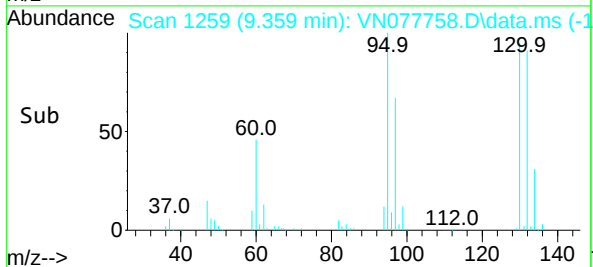
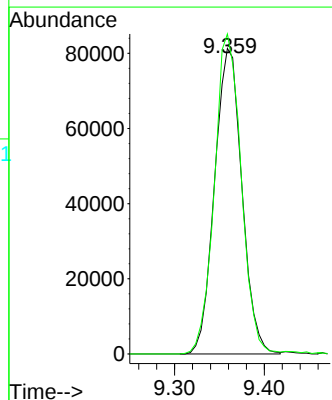
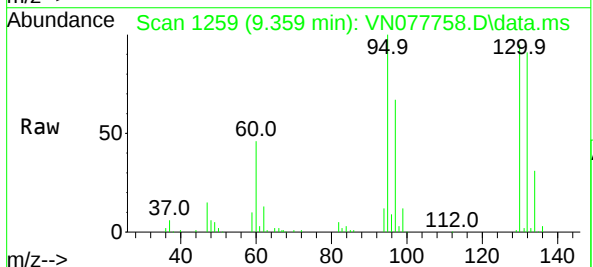
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

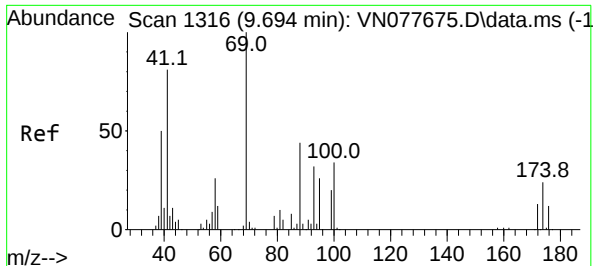
Tgt Ion: 83 Resp: 2582  
Ion Ratio Lower Upper  
83 100  
55 0.0 49.1 73.7#  
98 181.1 40.6 61.0#



#44  
Trichloroethene  
Concen: 36.702 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. -0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion:130 Resp: 171797  
Ion Ratio Lower Upper  
130 100  
95 104.7 0.0 204.6





#49

1,4-Dioxane

Concen: 2.633 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077758.D

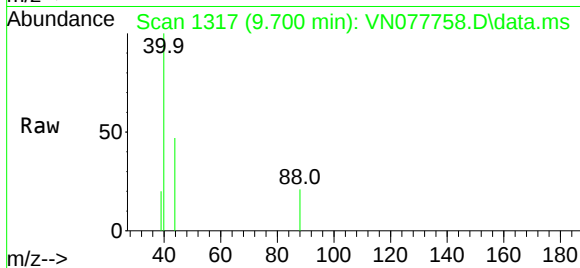
Acq: 19 May 2023 12:51

Instrument :

MSVOA\_N

ClientSampleId :

RE125D1-20230517DL



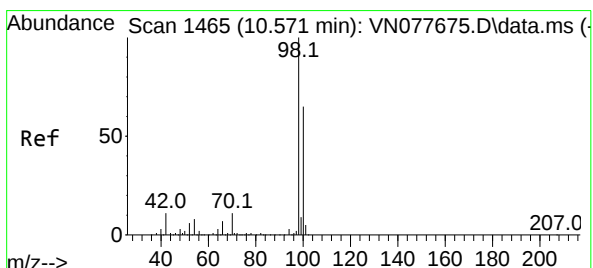
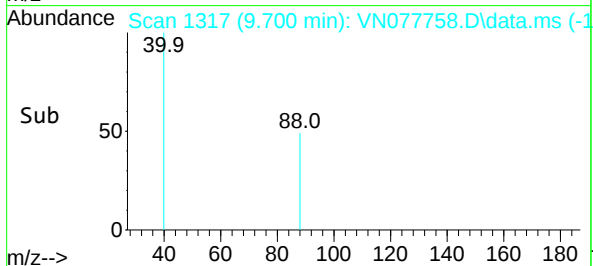
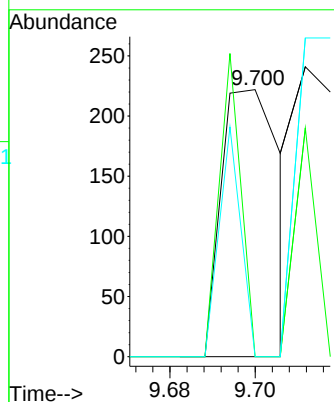
Tgt Ion: 88 Resp: 215

Ion Ratio Lower Upper

88 100

43 41.4 17.0 25.6#

58 31.2 47.0 70.4#



#50

Toluene-d8

Concen: 49.029 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN077758.D

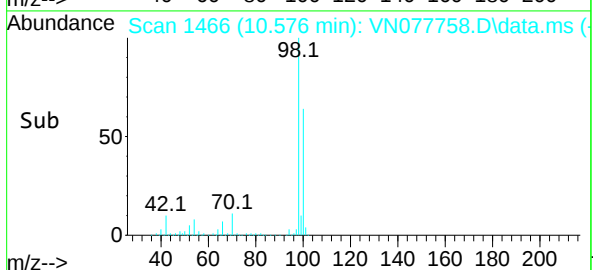
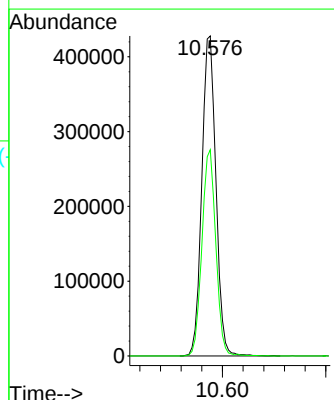
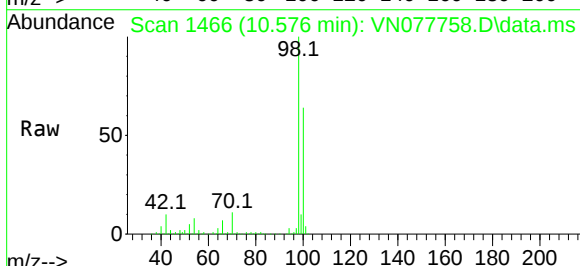
Acq: 19 May 2023 12:51

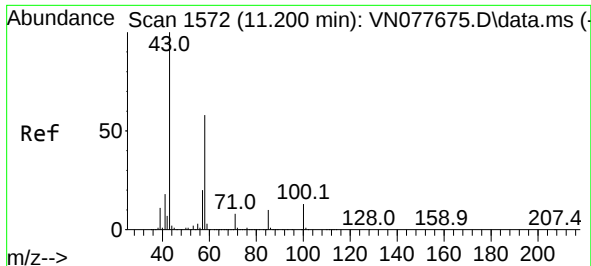
Tgt Ion: 98 Resp: 808269

Ion Ratio Lower Upper

98 100

100 63.6 52.0 78.0





#59

2-Hexanone

Concen: 0.264 ug/l

RT: 11.194 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN077758.D

Acq: 19 May 2023 12:51

Instrument :

MSVOA\_N

ClientSampleId :

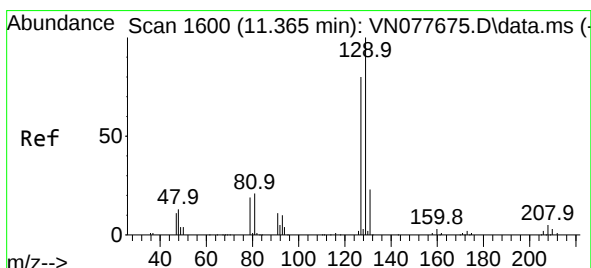
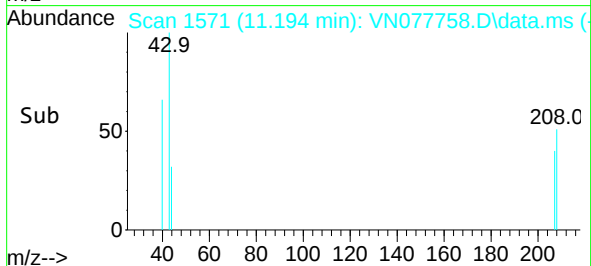
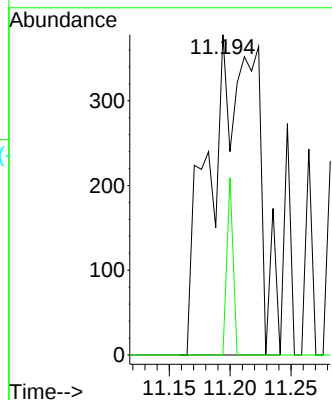
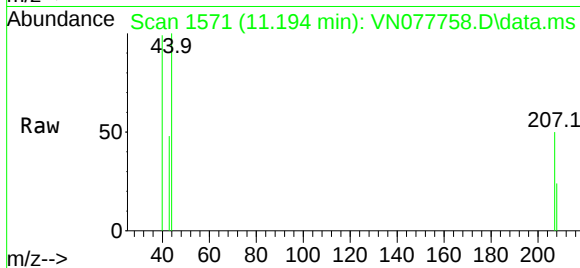
RE125D1-20230517DL

Tgt Ion: 43 Resp: 1057

Ion Ratio Lower Upper

43 100

58 7.0 31.7 95.1#



#60

Dibromochloromethane

Concen: 1.931 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. -0.253 min

Lab File: VN077758.D

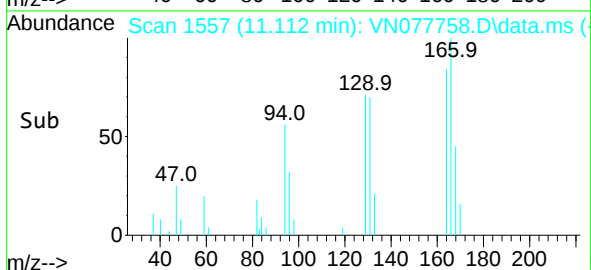
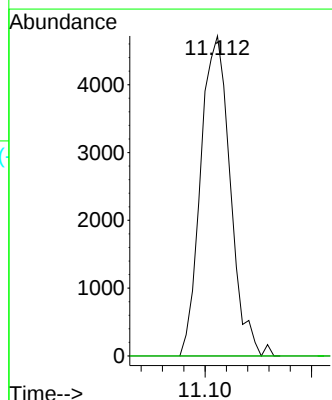
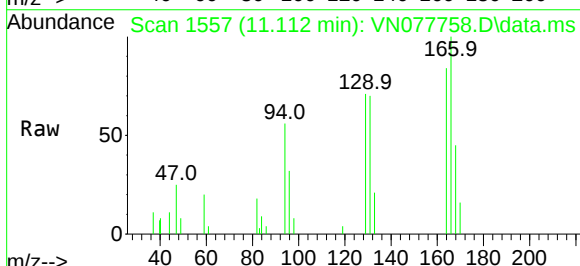
Acq: 19 May 2023 12:51

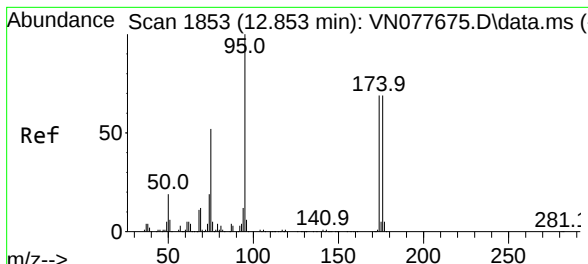
Tgt Ion: 129 Resp: 9109

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#

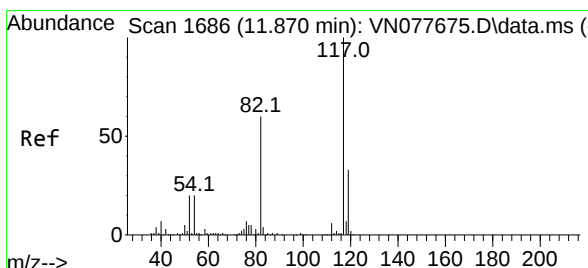
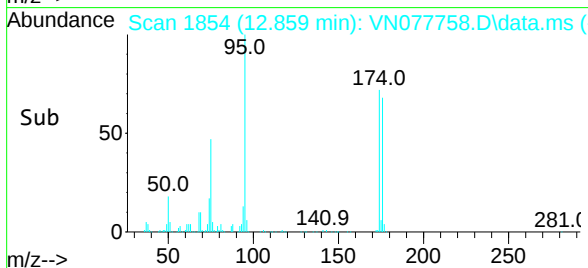
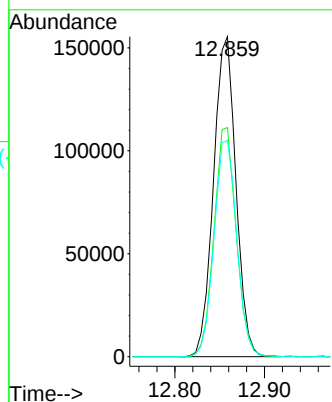
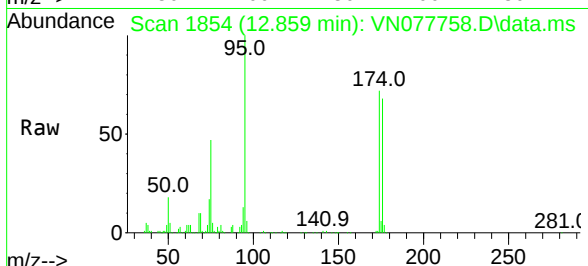




#62  
4-Bromofluorobenzene  
Concen: 46.267 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

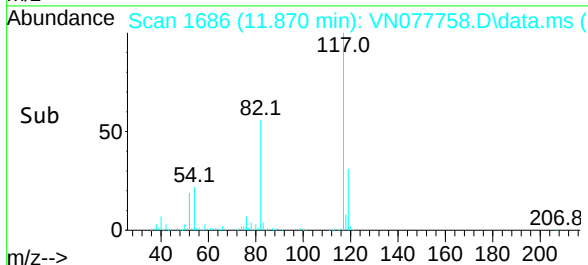
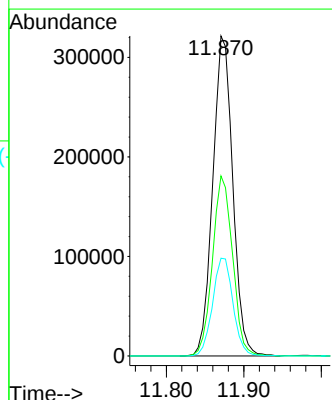
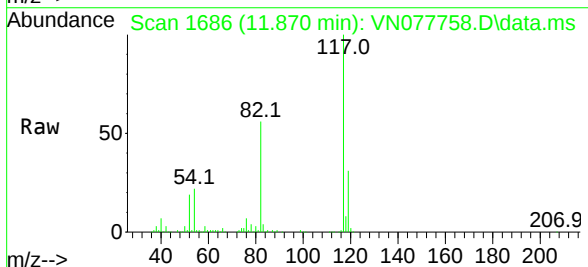
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

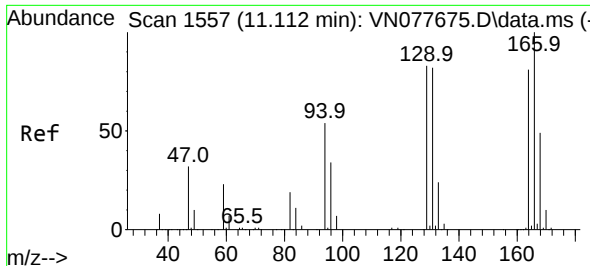
Tgt Ion: 95 Resp: 269382  
Ion Ratio Lower Upper  
95 100  
174 71.0 0.0 143.8  
176 68.6 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion: 117 Resp: 576493  
Ion Ratio Lower Upper  
117 100  
82 56.3 44.0 66.0  
119 30.5 25.6 38.4



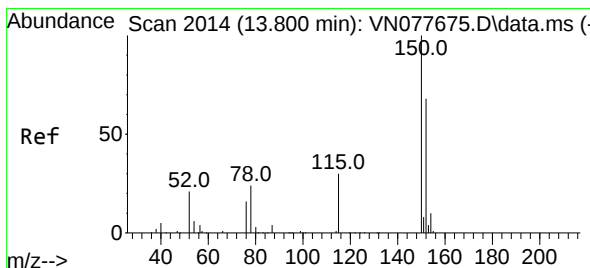
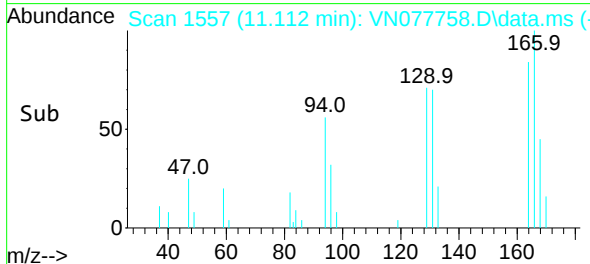
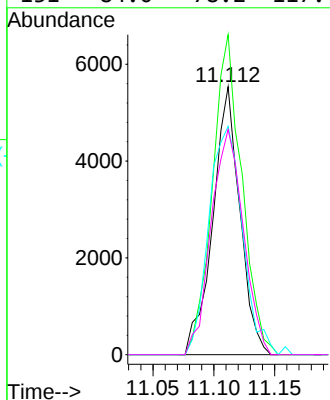
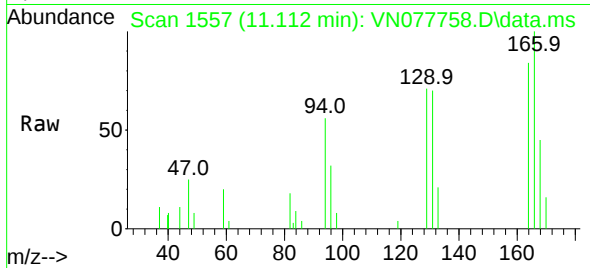


#64  
Tetrachloroethene  
Concen: 2.122 ug/l  
RT: 11.112 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

Tgt Ion:164 Resp: 8553

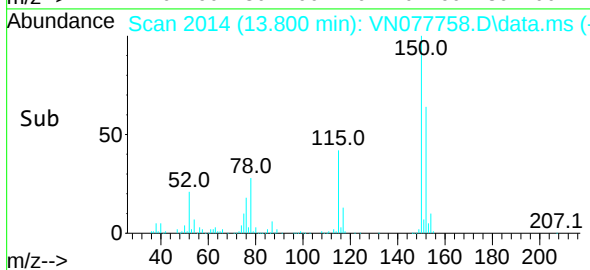
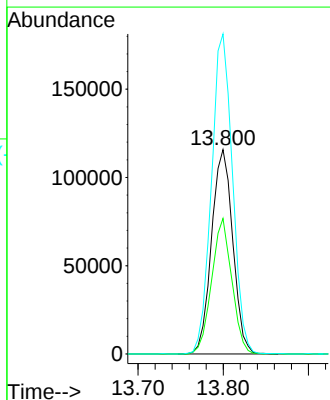
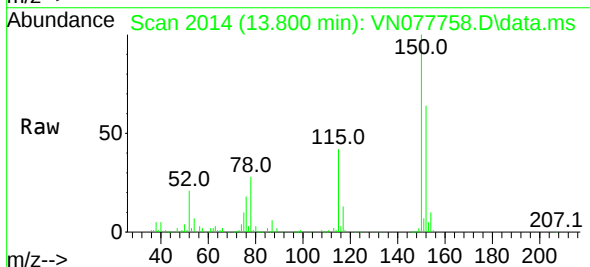
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 119.4 | 101.4 | 152.0 |
| 129 | 85.2  | 82.4  | 123.6 |
| 131 | 84.0  | 78.2  | 117.4 |

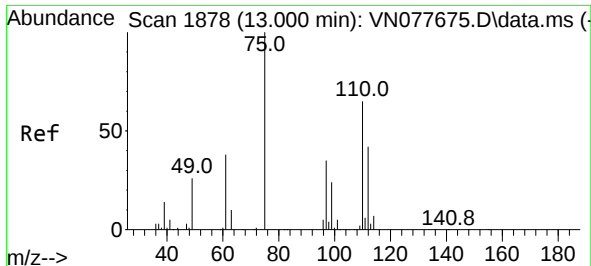


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion:152 Resp: 200245

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 63.1  | 32.3  | 96.8  |
| 150 | 155.3 | 0.0   | 355.8 |

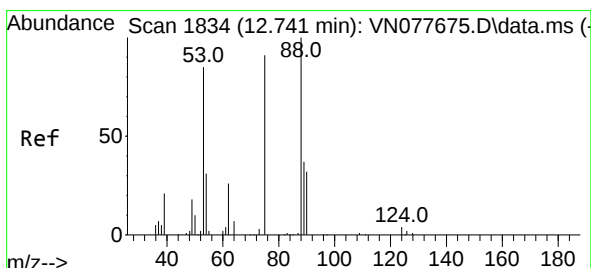
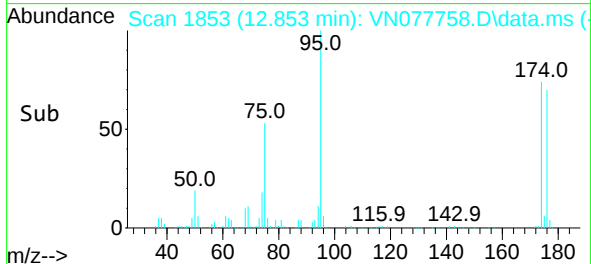
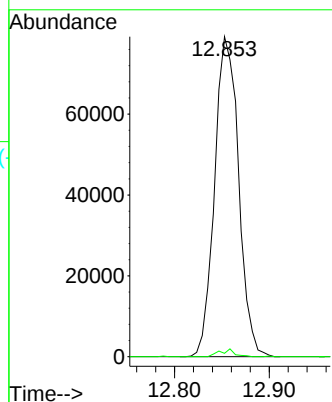
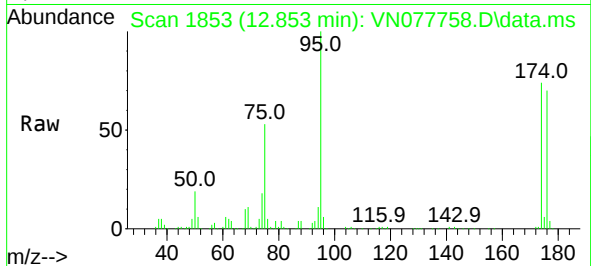




#76  
1,2,3-Trichloropropane  
Concen: 27.806 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

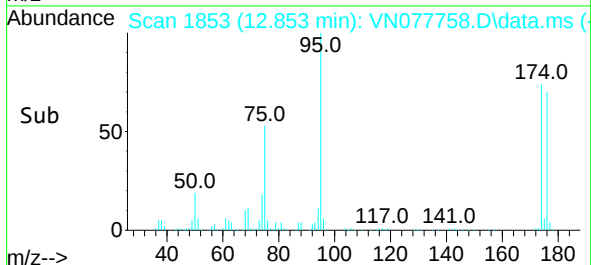
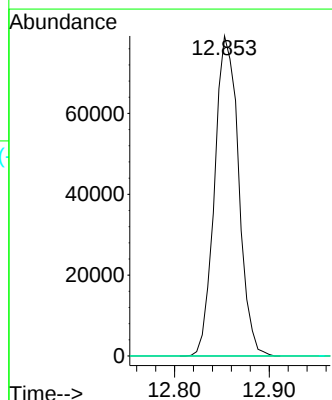
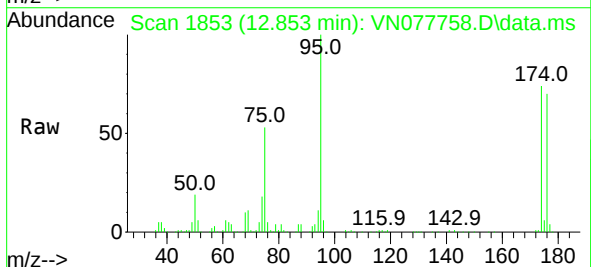
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

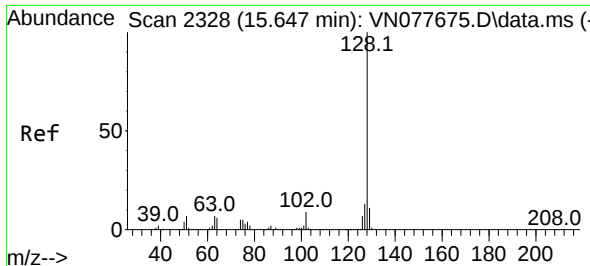
Tgt Ion: 75 Resp: 139443  
Ion Ratio Lower Upper  
75 100  
77 1.5 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 88.882 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion: 75 Resp: 139443  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#

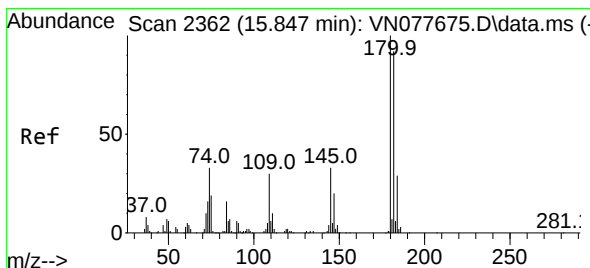
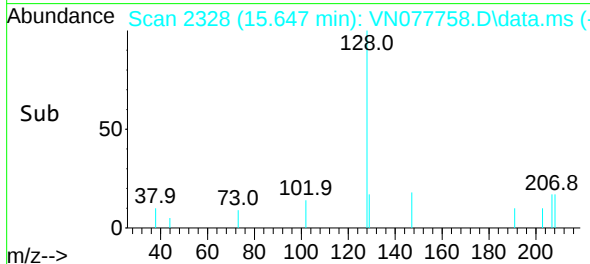
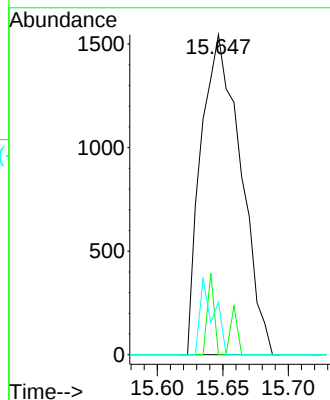
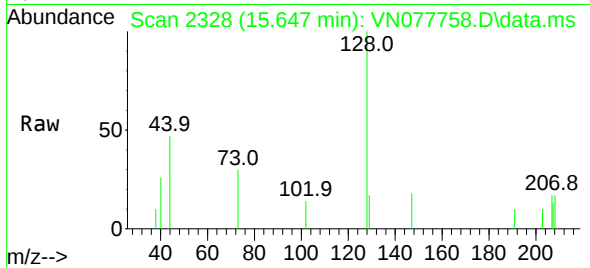




#95  
Naphthalene  
Concen: 0.236 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE125D1-20230517DL

Tgt Ion:128 Resp: 3236  
Ion Ratio Lower Upper  
128 100  
127 4.3 10.0 15.0#  
129 8.5 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.204 ug/l  
RT: 15.858 min Scan# 2364  
Delta R.T. 0.011 min  
Lab File: VN077758.D  
Acq: 19 May 2023 12:51

Tgt Ion:180 Resp: 796  
Ion Ratio Lower Upper  
180 100  
182 72.1 46.2 138.6  
145 0.0 17.5 52.6#

