

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111323\  
 Data File : VN080077.D  
 Acq On : 14 Nov 2023 07:36  
 Operator : JC\MD  
 Sample : PB157075ZHE#18  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 14 19:26:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

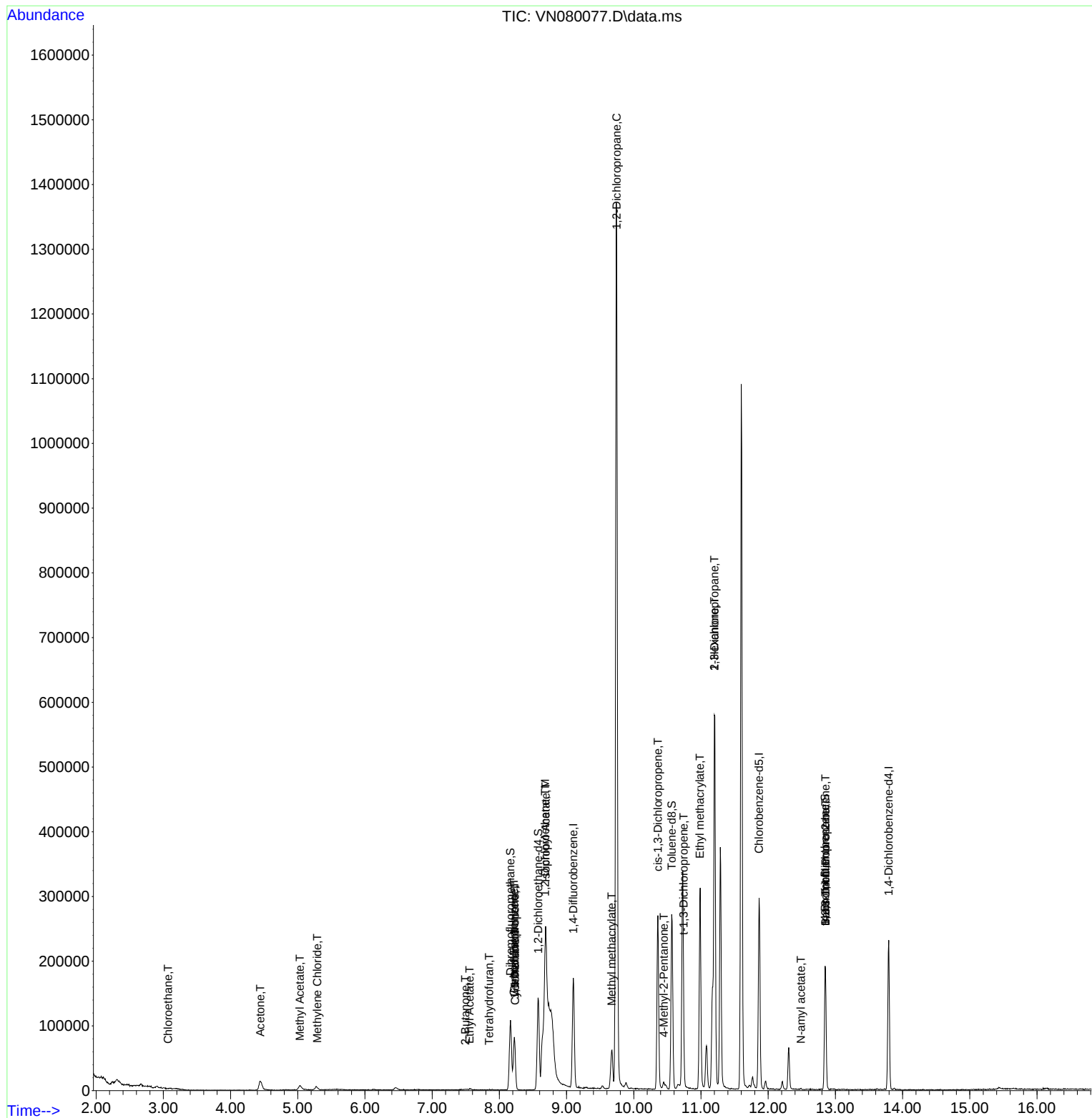
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 56309    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 142724   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 169629   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 61534    | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 119577   | 139.386   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 278.780%# |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 76727    | 75.957    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 151.920%# |          |
| 50) Toluene-d8                | 10.565 | 98    | 189406   | 50.933    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 101.860%  |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 67493    | 54.725    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 109.460%  |          |
| Target Compounds              |        |       |          |           |             | Qvalue   |
| 3) Chloromethane              | 2.348  | 50    | 539      | Below Cal | #           | 42       |
| 6) Chloroethane               | 3.071  | 64    | 187      | 0.267     | ug/l #      | 43       |
| 16) Acetone                   | 4.442  | 43    | 29932    | 99.329    | ug/l #      | 77       |
| 18) Methyl Acetate            | 5.030  | 43    | 14926    | 10.353    | ug/l #      | 85       |
| 20) Methylene Chloride        | 5.289  | 84    | 3938     | 5.179     | ug/l #      | 76       |
| 25) 2-Butanone                | 7.494  | 43    | 2578     | 5.842     | ug/l #      | 37       |
| 29) Tetrahydrofuran           | 7.847  | 42    | 270      | 0.940     | ug/l #      | 34       |
| 31) Cyclohexane               | 8.235  | 56    | 1286     | 1.134     | ug/l #      | 23       |
| 36) 1,1-Dichloropropene       | 8.230  | 75    | 4708     | 3.264     | ug/l #      | 41       |
| 37) Ethyl Acetate             | 7.559  | 43    | 3328     | 2.516     | ug/l #      | 74       |
| 38) Carbon Tetrachloride      | 8.218  | 117   | 6176     | 4.249     | ug/l #      | 18       |
| 42) 1,2-Dichloroethane        | 8.682  | 62    | 1036     | 0.687     | ug/l #      | 73       |
| 43) Isopropyl Acetate         | 8.688  | 43    | 429327   | 185.075   | ug/l #      | 62       |
| 45) 1,2-Dichloropropane       | 9.747  | 63    | 1729     | 1.566     | ug/l #      | 45       |
| 48) Methyl methacrylate       | 9.671  | 41    | 4318     | 4.250     | ug/l #      | 29       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43    | 6559     | 5.022     | ug/l        | 89       |
| 53) t-1,3-Dichloropropene     | 10.741 | 75    | 1107     | 0.702     | ug/l        | 97       |
| 54) cis-1,3-Dichloropropene   | 10.359 | 75    | 46037    | 26.800    | ug/l #      | 73       |
| 56) Ethyl methacrylate        | 10.982 | 69    | 2830     | 1.926     | ug/l #      | 1        |
| 57) 1,3-Dichloropropane       | 11.200 | 76    | 5981     | 3.294     | ug/l #      | 42       |
| 59) 2-Hexanone                | 11.200 | 43    | 79715    | 79.788    | ug/l #      | 47       |
| 71) Bromoform                 | 12.853 | 173   | 560      | 0.595     | ug/l #      | 1        |
| 74) N-amyl acetate            | 12.488 | 43    | 1374     | 0.674     | ug/l #      | 36       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 36131    | 25.010    | ug/l #      | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 36131    | 68.048    | ug/l #      | 15       |

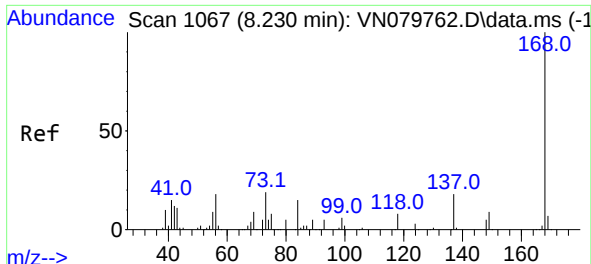
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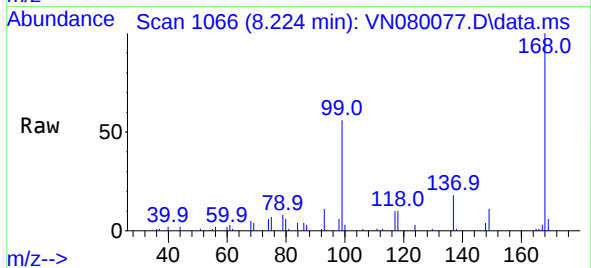
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
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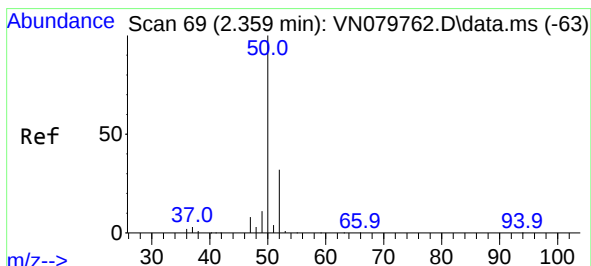
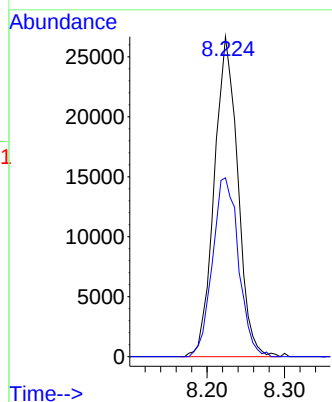
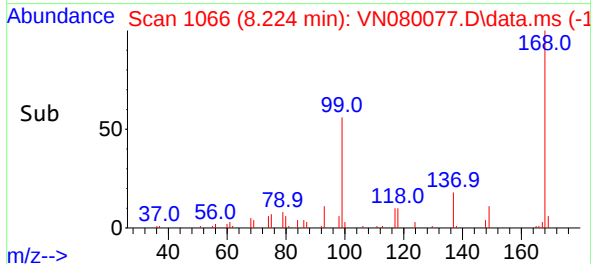


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.005 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Instrument :  
MSVOA\_N  
ClientSampleId :

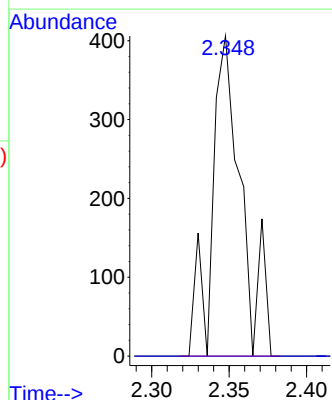
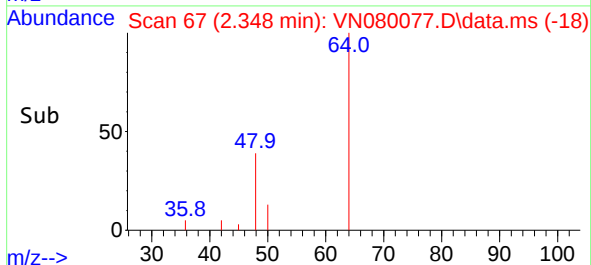
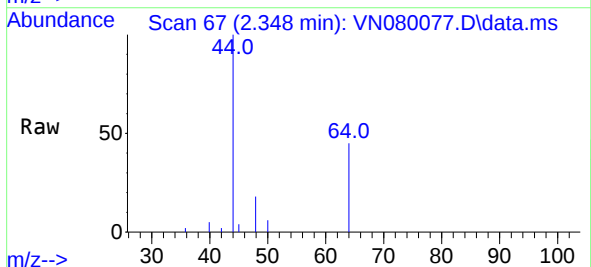


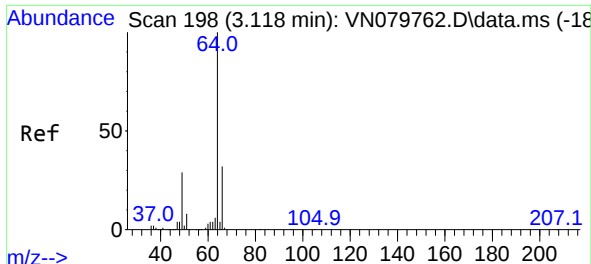
Tgt Ion:168 Resp: 56309  
Ion Ratio Lower Upper  
168 100  
99 55.9 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.348 min Scan# 67  
Delta R.T. -0.011 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 50 Resp: 539  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.5 39.7#

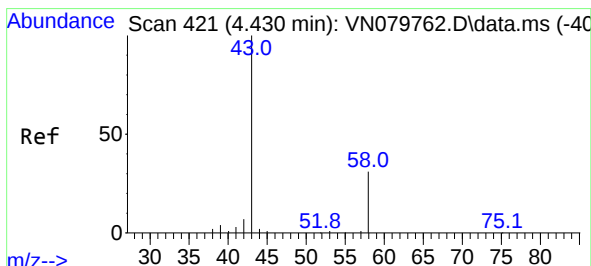
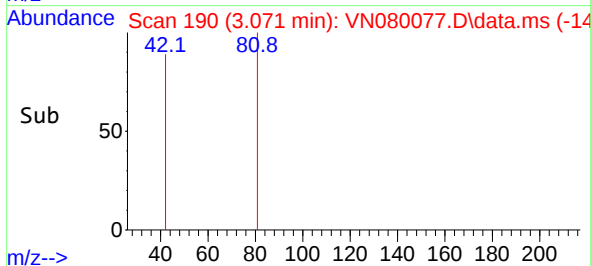
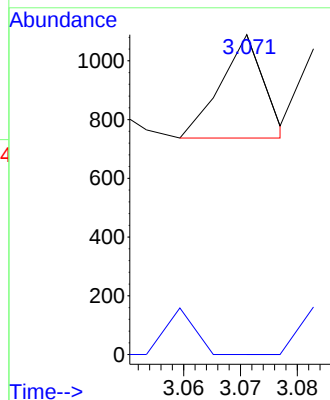
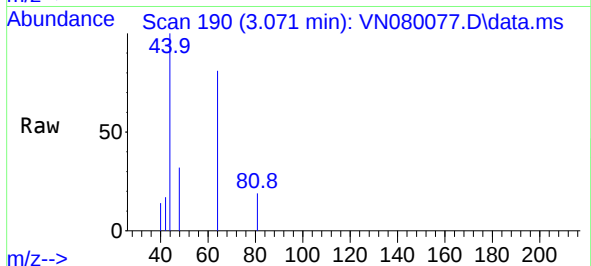




#6  
Chloroethane  
Concen: 0.267 ug/l  
RT: 3.071 min Scan# 198  
Delta R.T. -0.047 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

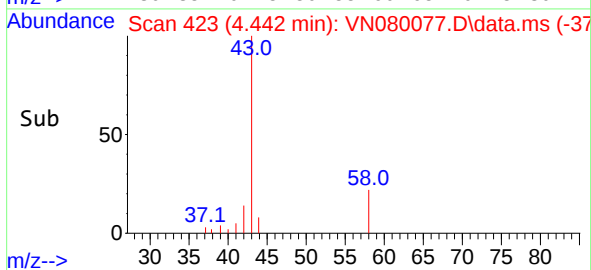
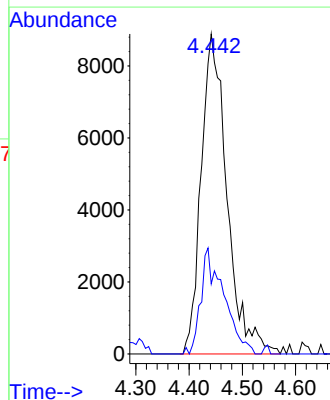
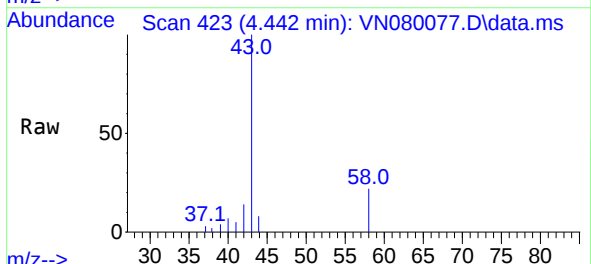
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ClientSampleId :

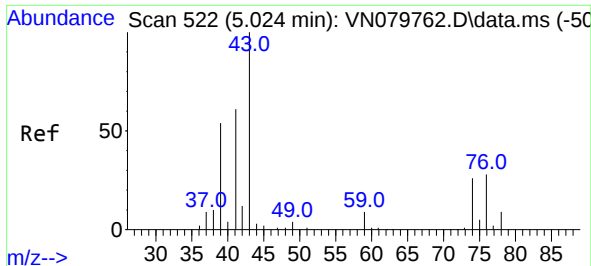
Tgt Ion: 64 Resp: 187  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



#16  
Acetone  
Concen: 99.329 ug/l  
RT: 4.442 min Scan# 423  
Delta R.T. 0.012 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 43 Resp: 29932  
Ion Ratio Lower Upper  
43 100  
58 21.9 28.0 42.0#

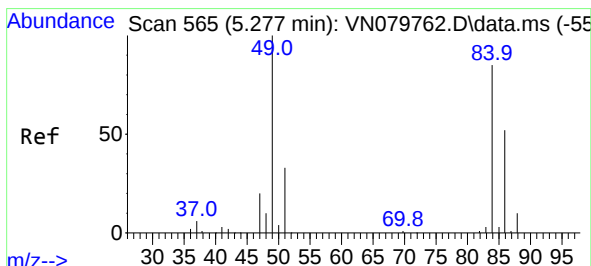
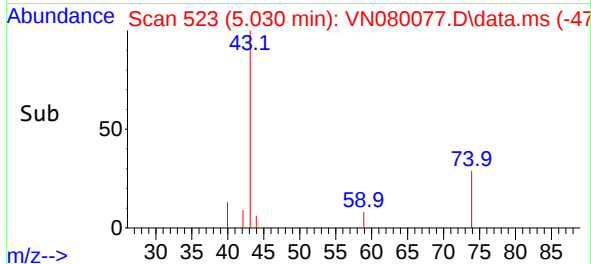
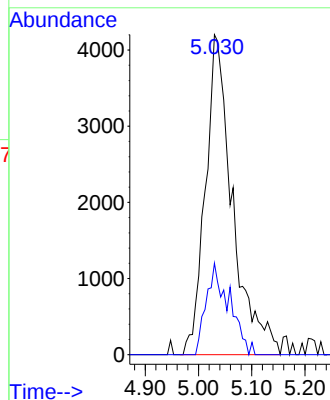
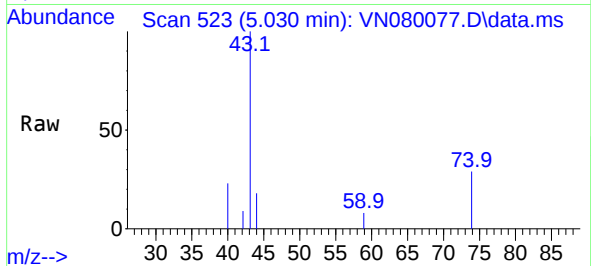




#18  
Methyl Acetate  
Concen: 10.353 ug/l  
RT: 5.030 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

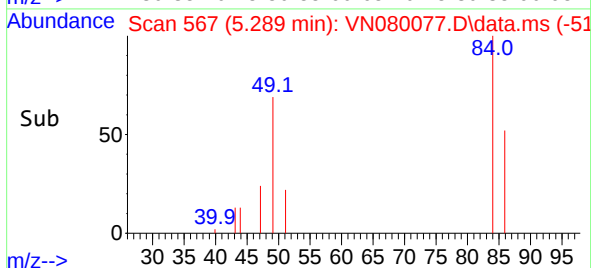
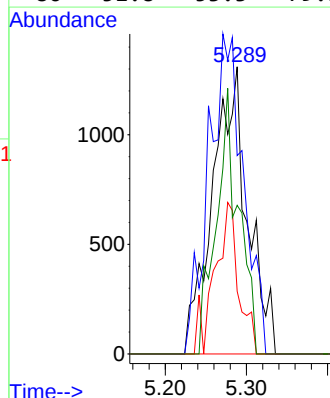
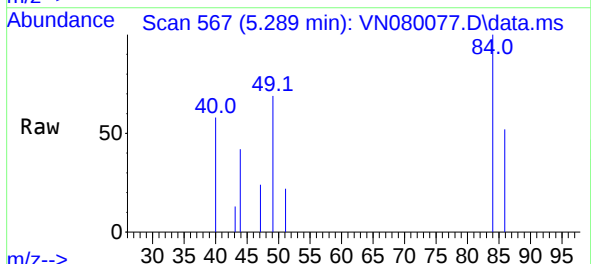
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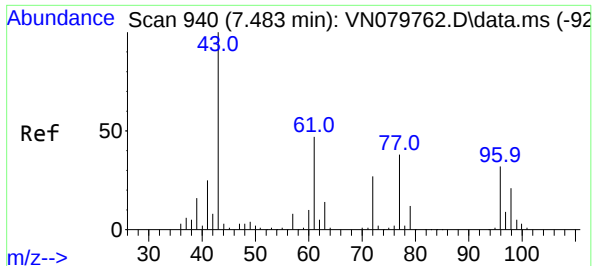
Tgt Ion: 43 Resp: 14926  
Ion Ratio Lower Upper  
43 100  
74 24.2 26.2 39.4#



#20  
Methylene Chloride  
Concen: 5.179 ug/l  
RT: 5.289 min Scan# 567  
Delta R.T. 0.018 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 84 Resp: 3938  
Ion Ratio Lower Upper  
84 100  
49 69.1 79.7 119.5#  
51 21.8 25.2 37.8#  
86 51.8 53.3 79.9#

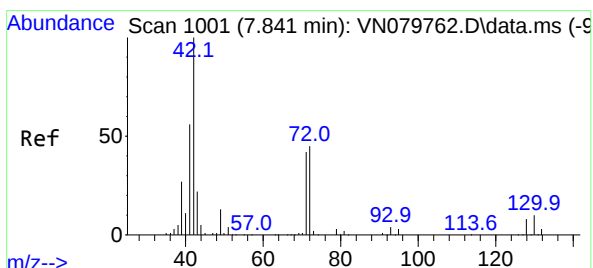
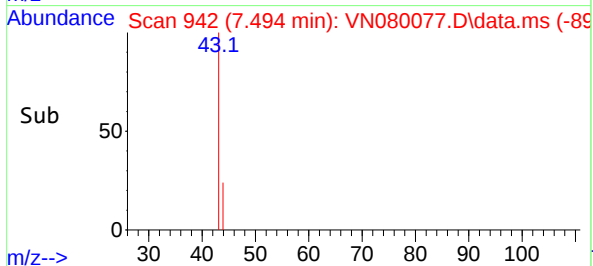
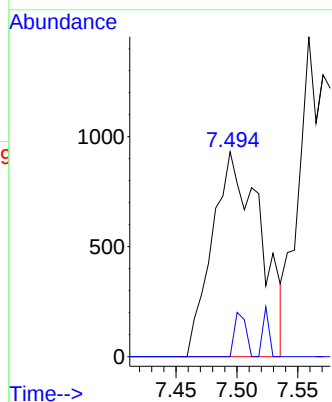
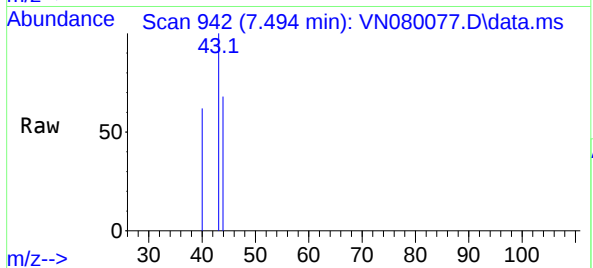




#25  
2-Butanone  
Concen: 5.842 ug/l  
RT: 7.494 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

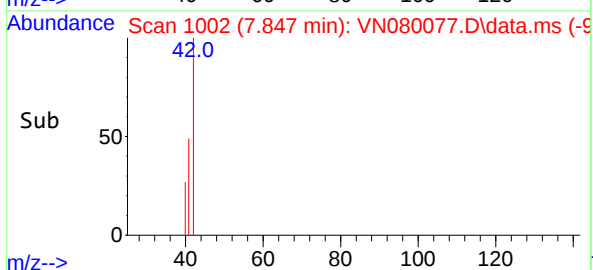
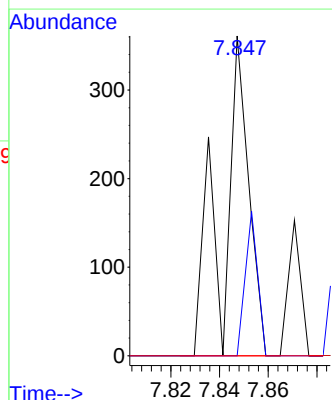
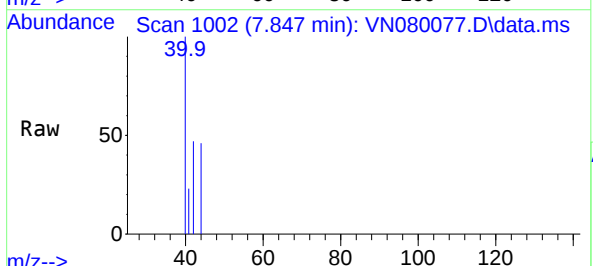
Instrument :  
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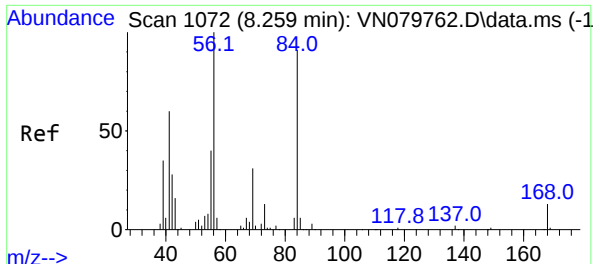
Tgt Ion: 43 Resp: 2578  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#



#29  
Tetrahydrofuran  
Concen: 0.940 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

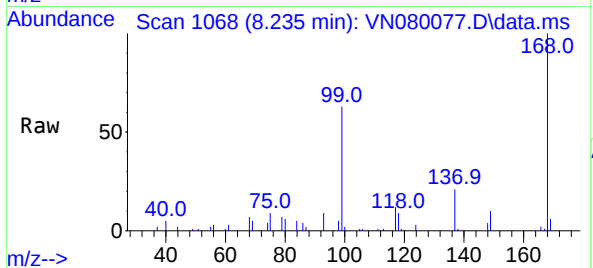
Tgt Ion: 42 Resp: 270  
Ion Ratio Lower Upper  
42 100  
72 21.5 49.8 74.6#  
71 0.0 47.4 71.2#



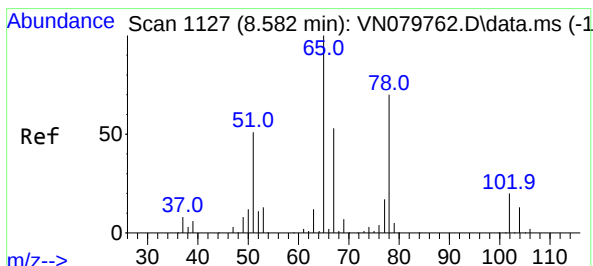
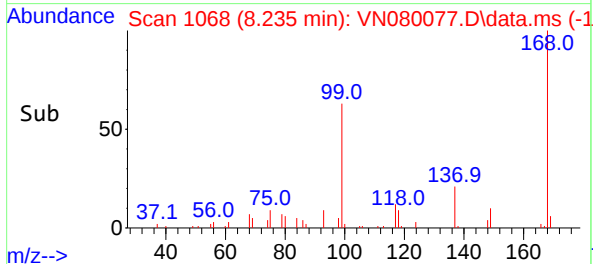
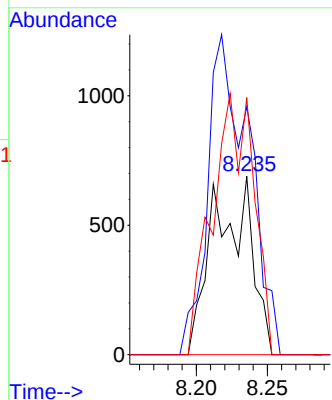


#31  
Cyclohexane  
Concen: 1.134 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.023 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

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ClientSampleId :

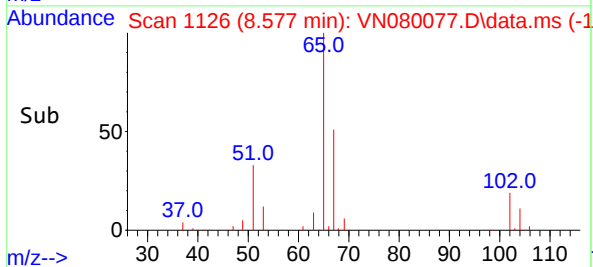
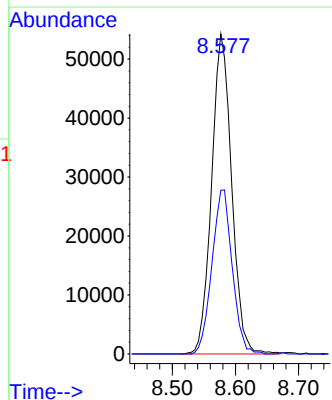
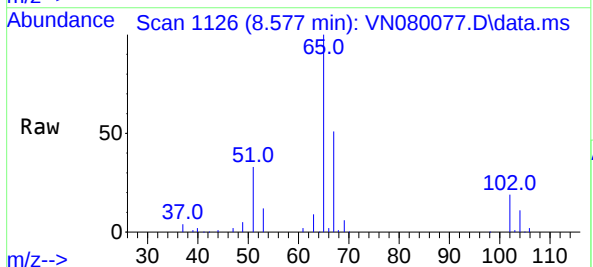


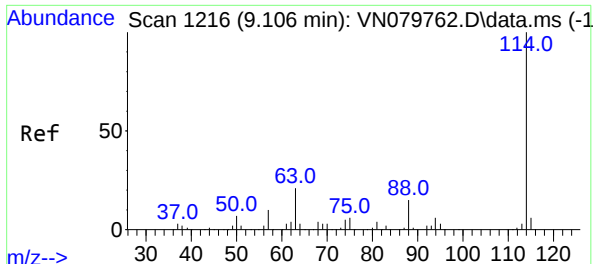
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Ion Ratio Lower Upper  
56 100  
69 139.0 26.8 40.2#  
84 144.1 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 139.386 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 65 Resp: 119577  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN080077.D

Acq: 14 Nov 2023 07:36

Instrument :

MSVOA\_N

ClientSampleId :

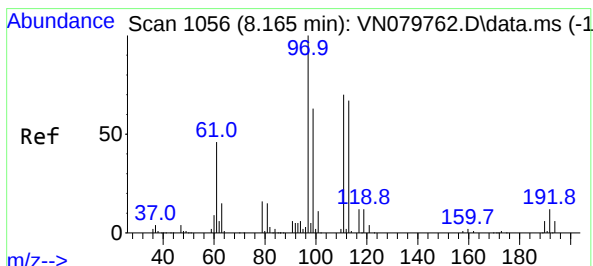
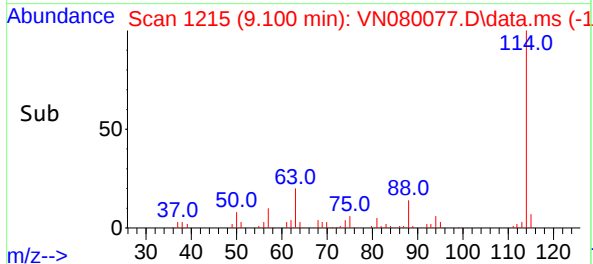
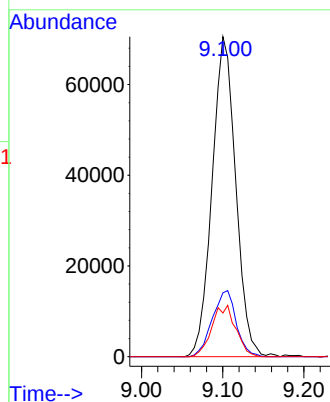
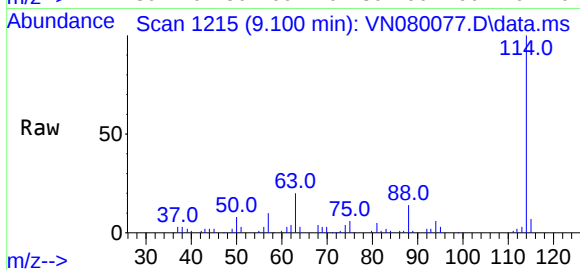
Tgt Ion:114 Resp: 142724

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

88 13.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 75.957 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN080077.D

Acq: 14 Nov 2023 07:36

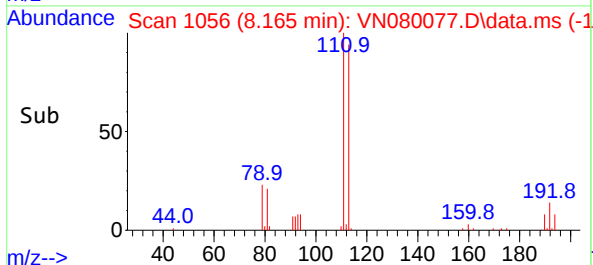
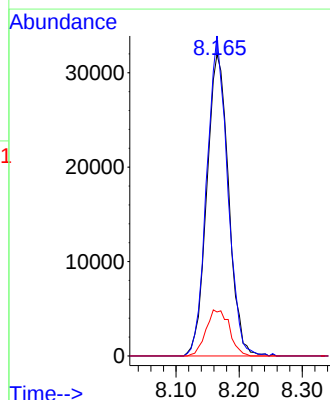
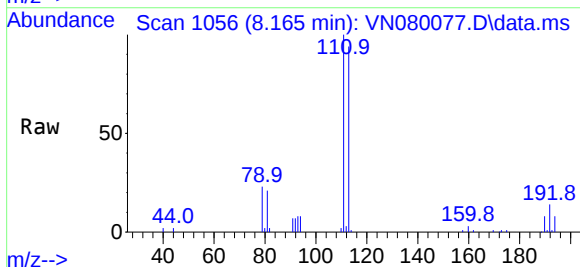
Tgt Ion:113 Resp: 76727

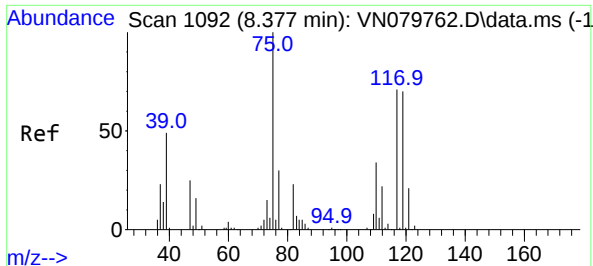
Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 16.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 3.264 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

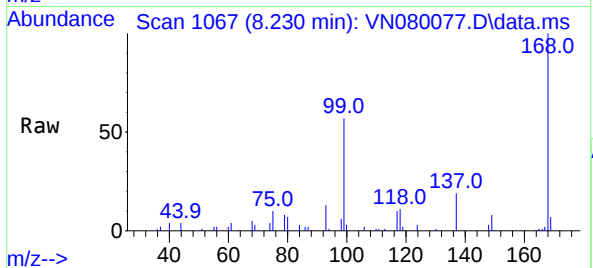
Lab File: VN080077.D

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MSVOA\_N

ClientSampleId :



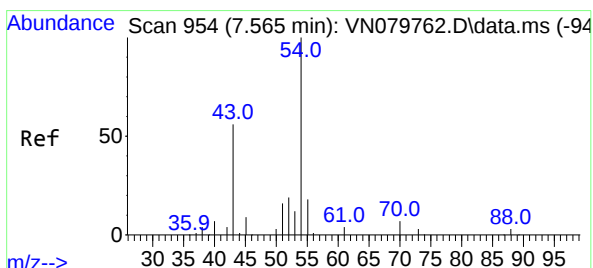
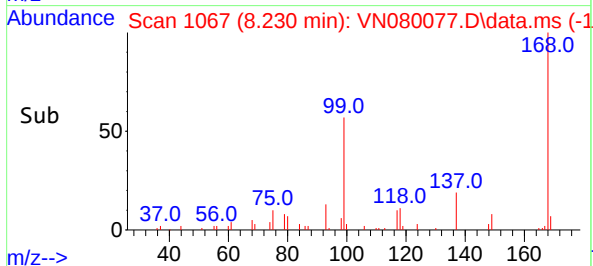
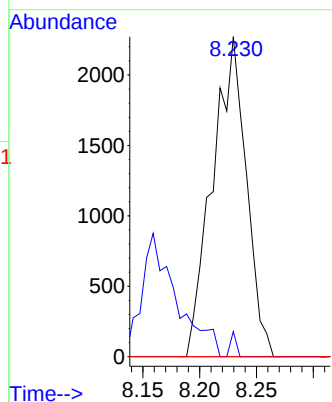
Tgt Ion: 75 Resp: 4708

Ion Ratio Lower Upper

75 100

110 1.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 2.516 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.006 min

Lab File: VN080077.D

Acq: 14 Nov 2023 07:36

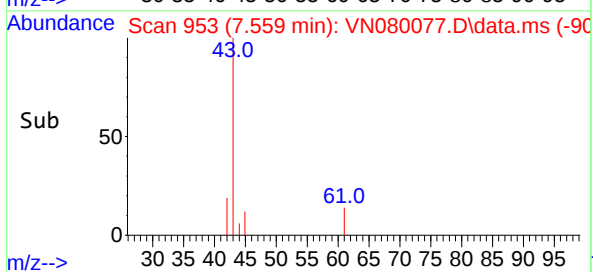
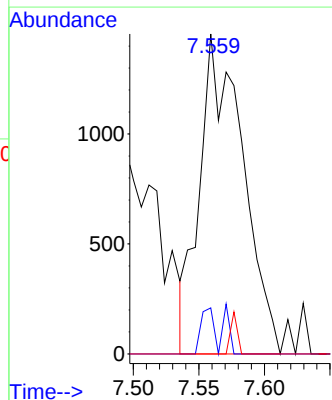
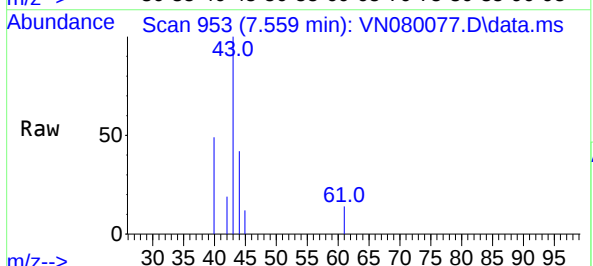
Tgt Ion: 43 Resp: 3328

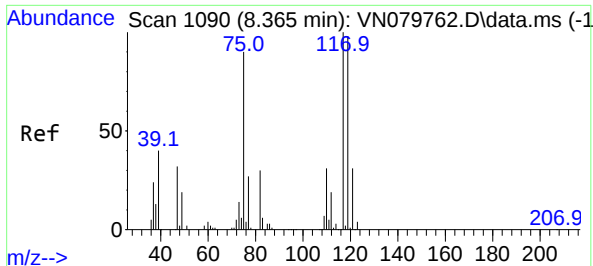
Ion Ratio Lower Upper

43 100

61 6.7 13.2 19.8#

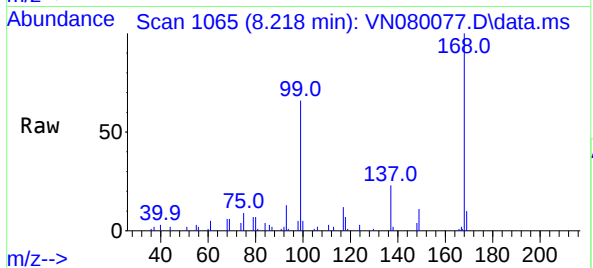
70 2.0 11.3 16.9#



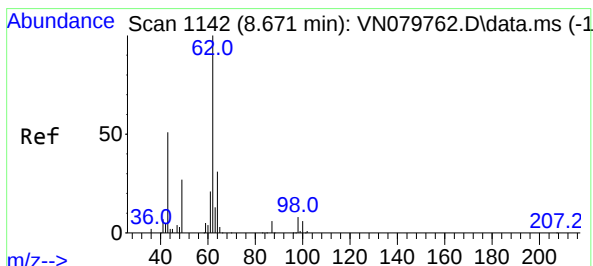
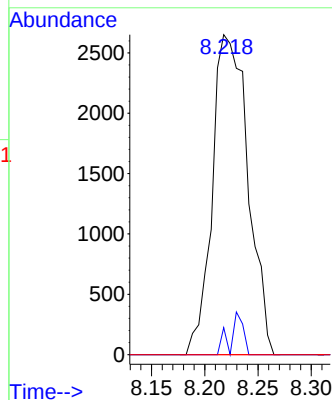
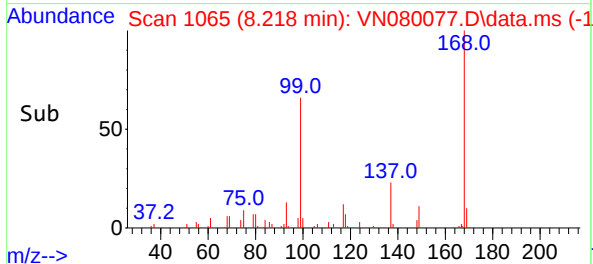


#38  
Carbon Tetrachloride  
Concen: 4.249 ug/l  
RT: 8.218 min Scan# 1107  
Delta R.T. -0.141 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Instrument :  
MSVOA\_N  
ClientSampleId :

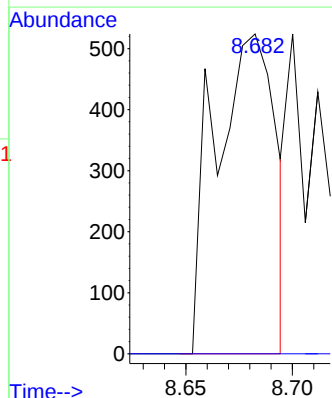
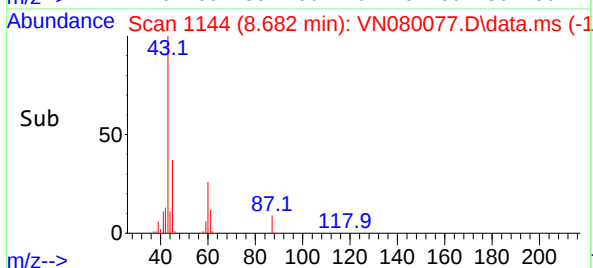
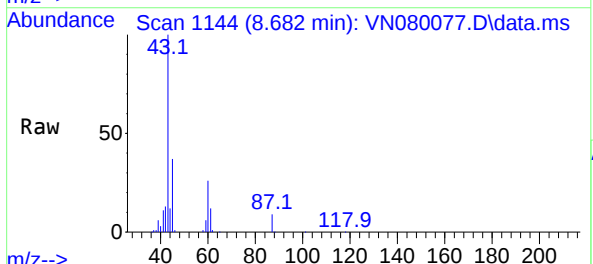


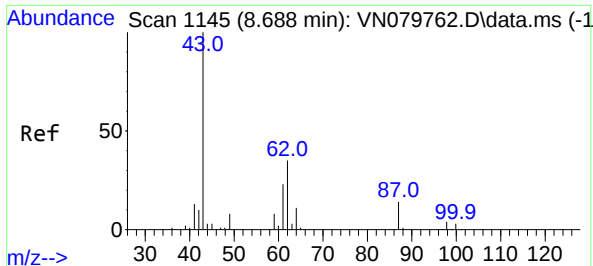
Tgt Ion:117 Resp: 6176  
Ion Ratio Lower Upper  
117 100  
119 8.4 77.3 115.9#  
121 0.0 23.3 34.9#



#42  
1,2-Dichloroethane  
Concen: 0.687 ug/l  
RT: 8.682 min Scan# 1144  
Delta R.T. 0.012 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 62 Resp: 1036  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 19.8

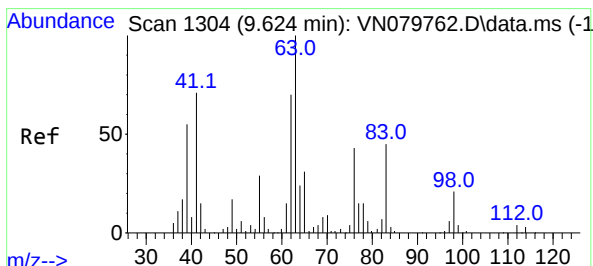
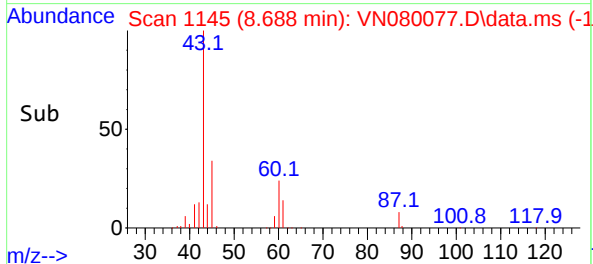
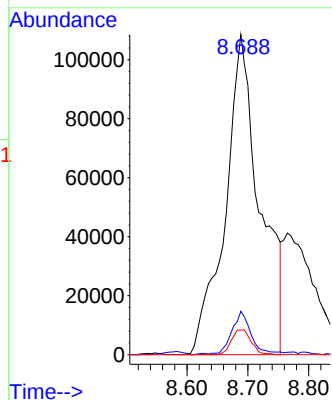
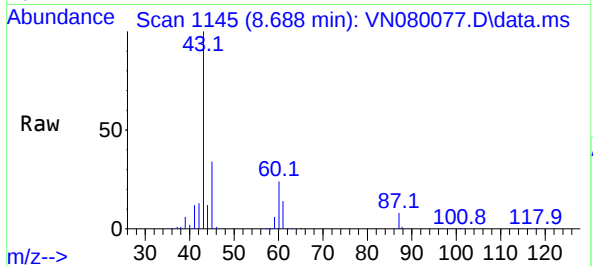




#43  
Isopropyl Acetate  
Concen: 185.075 ug/l  
RT: 8.688 min Scan# 1145  
Delta R.T. 0.000 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

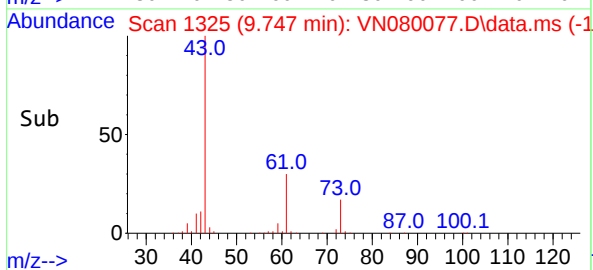
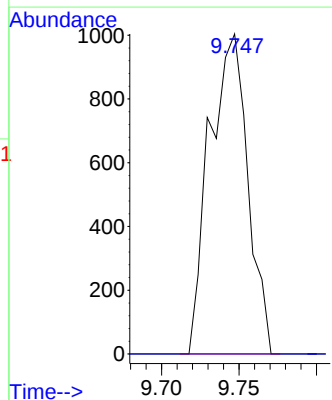
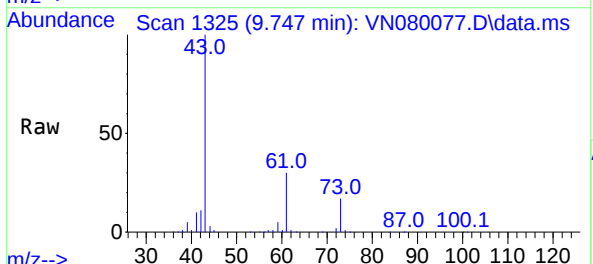
Instrument :  
MSVOA\_N  
ClientSampleId :

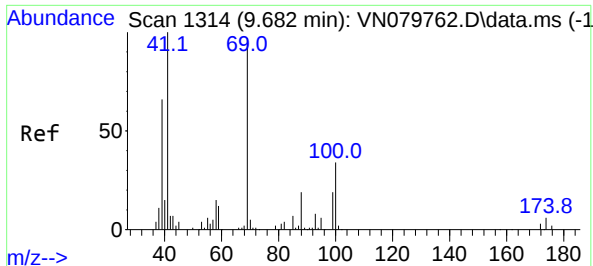
Tgt Ion: 43 Resp: 429327  
Ion Ratio Lower Upper  
43 100  
61 7.6 24.7 37.1#  
87 4.4 14.6 21.8#



#45  
1,2-Dichloropropane  
Concen: 1.566 ug/l  
RT: 9.747 min Scan# 1325  
Delta R.T. 0.124 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 63 Resp: 1729  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.9 35.9#

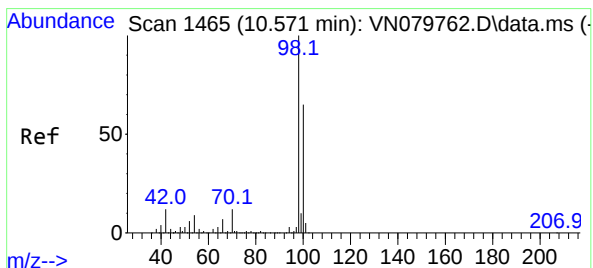
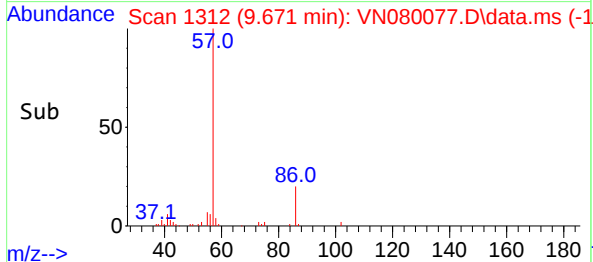
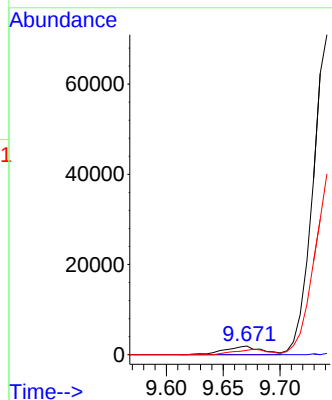
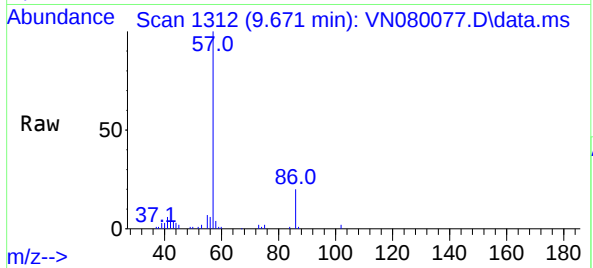




#48  
Methyl methacrylate  
Concen: 4.250 ug/l  
RT: 9.671 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

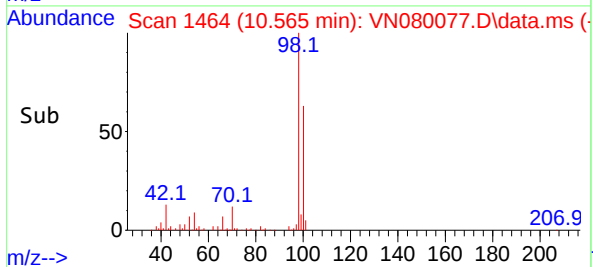
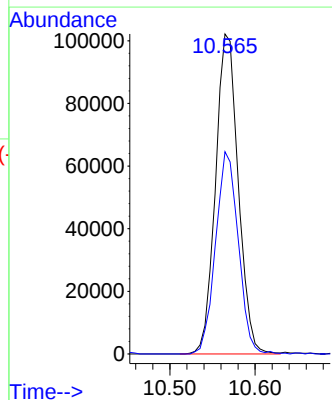
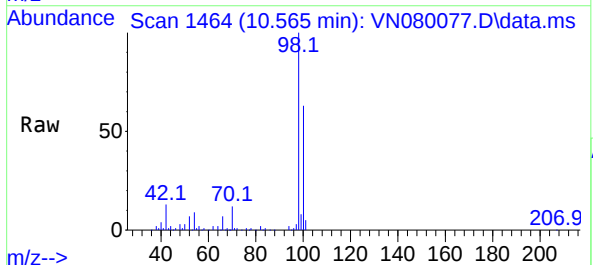
Instrument :  
MSVOA\_N  
ClientSampleId :

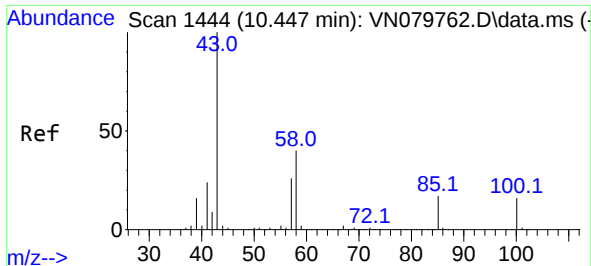
Tgt Ion: 41 Resp: 4318  
Ion Ratio Lower Upper  
41 100  
69 0.0 90.4 135.6#  
39 55.7 54.6 81.8



#50  
Toluene-d8  
Concen: 50.933 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 98 Resp: 189406  
Ion Ratio Lower Upper  
98 100  
100 63.1 52.0 78.0

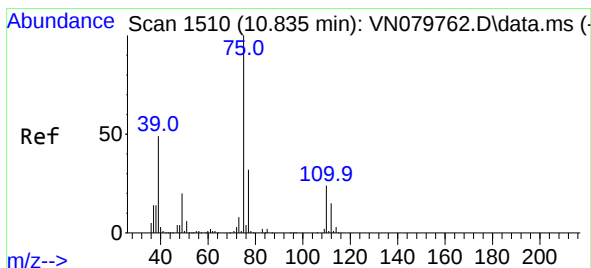
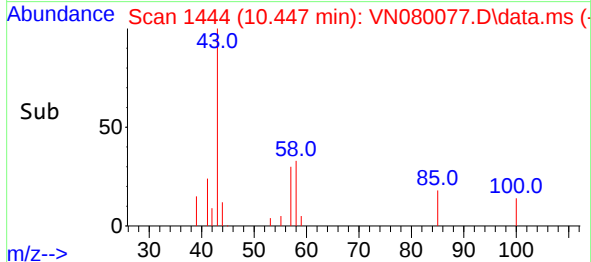
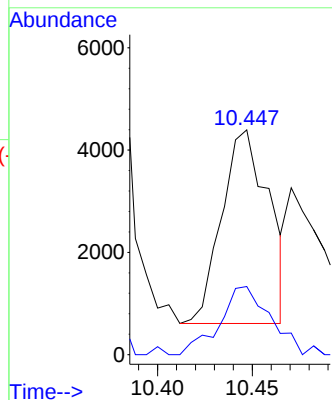
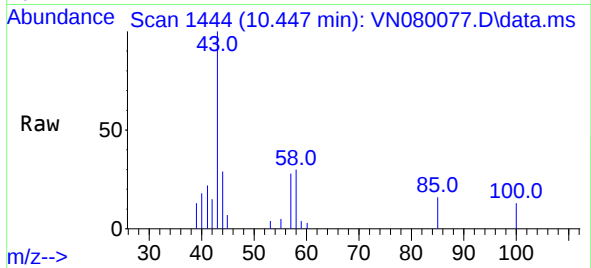




#51  
4-Methyl-2-Pentanone  
Concen: 5.022 ug/l  
RT: 10.447 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

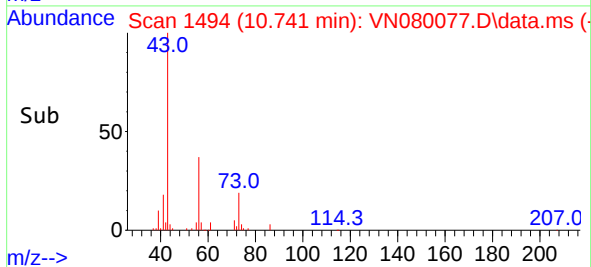
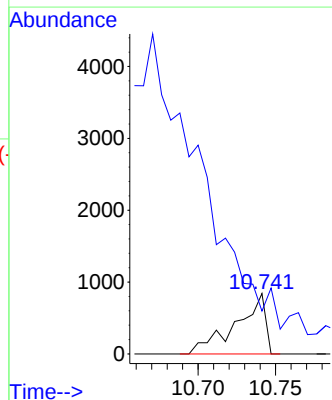
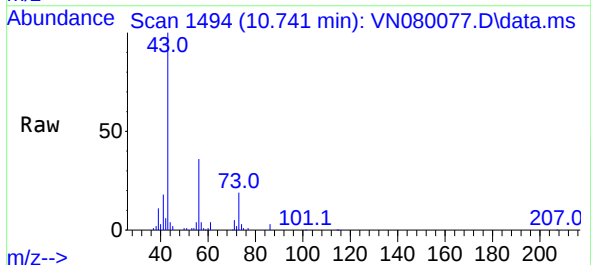
Instrument :  
MSVOA\_N  
ClientSampleId :

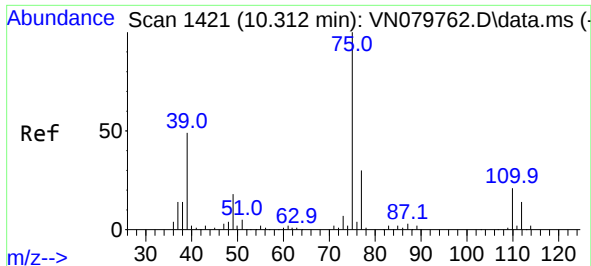
Tgt Ion: 43 Resp: 6559  
Ion Ratio Lower Upper  
43 100  
58 38.3 36.6 54.8



#53  
t-1,3-Dichloropropene  
Concen: 0.702 ug/l  
RT: 10.741 min Scan# 1494  
Delta R.T. -0.100 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 75 Resp: 1107  
Ion Ratio Lower Upper  
75 100  
77 30.1 25.4 38.0

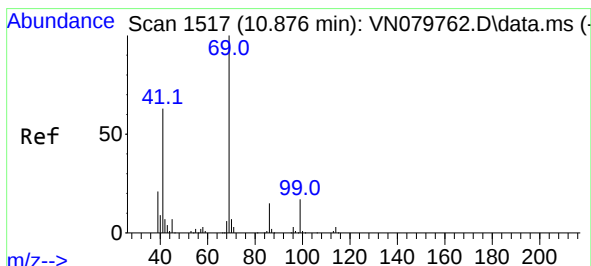
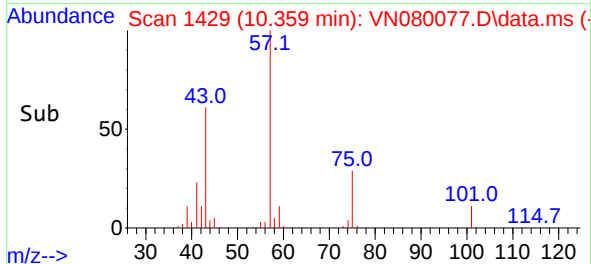
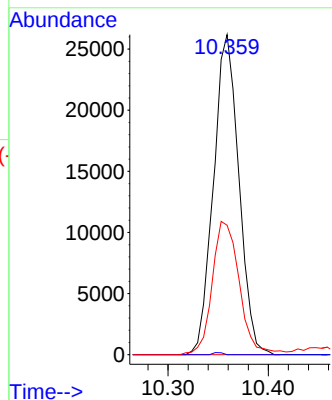
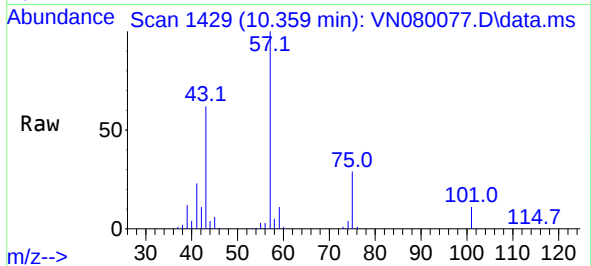




#54  
 cis-1,3-Dichloropropene  
 Concen: 26.800 ug/l  
 RT: 10.359 min Scan# 14  
 Delta R.T. 0.041 min  
 Lab File: VN080077.D  
 Acq: 14 Nov 2023 07:36

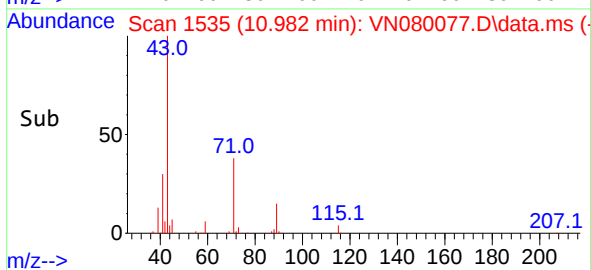
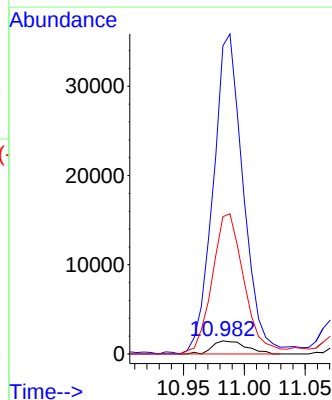
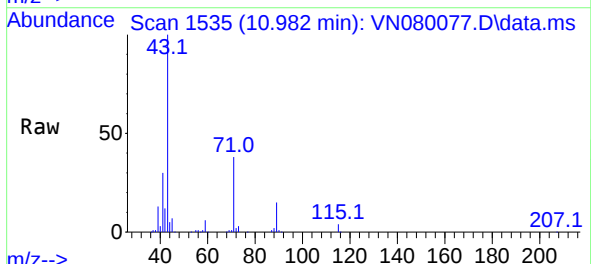
Instrument :  
 MSVOA\_N  
 ClientSampleId :

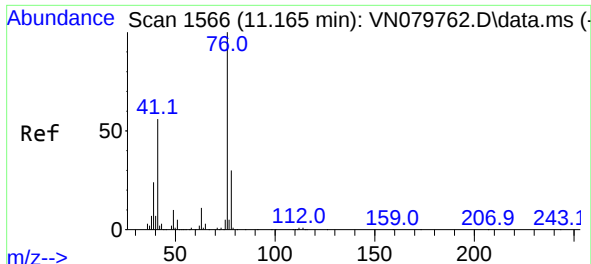
Tgt Ion: 75 Resp: 46037  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.1 39.1#  
 39 40.4 31.6 47.4



#56  
 Ethyl methacrylate  
 Concen: 1.926 ug/l  
 RT: 10.982 min Scan# 1535  
 Delta R.T. 0.106 min  
 Lab File: VN080077.D  
 Acq: 14 Nov 2023 07:36

Tgt Ion: 69 Resp: 2830  
 Ion Ratio Lower Upper  
 69 100  
 41 2207.9 39.6 59.4#  
 39 1015.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 3.294 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN080077.D

Acq: 14 Nov 2023 07:36

Instrument :

MSVOA\_N

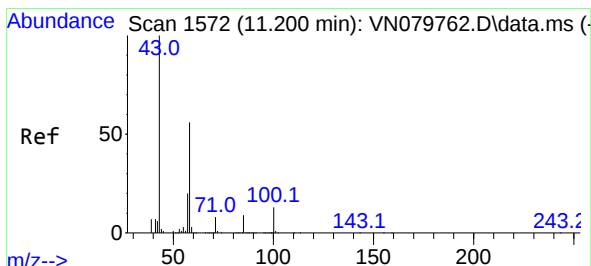
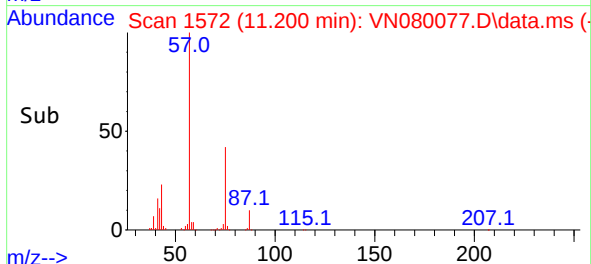
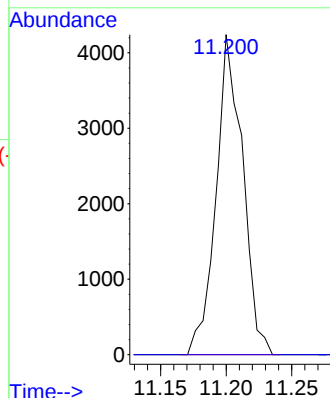
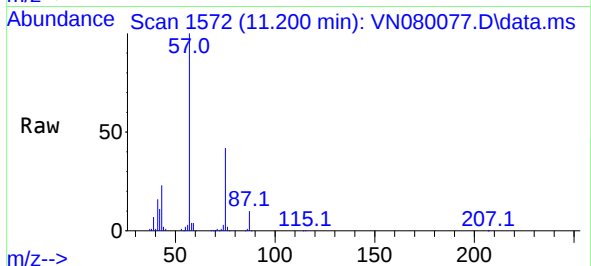
ClientSampleId :

Tgt Ion: 76 Resp: 5981

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 79.788 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.000 min

Lab File: VN080077.D

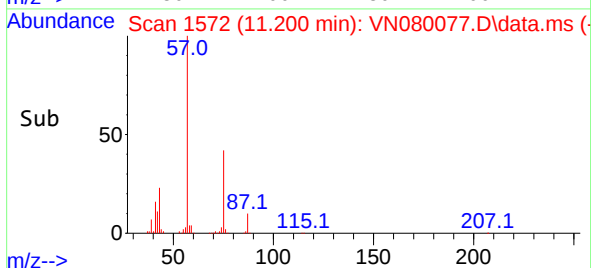
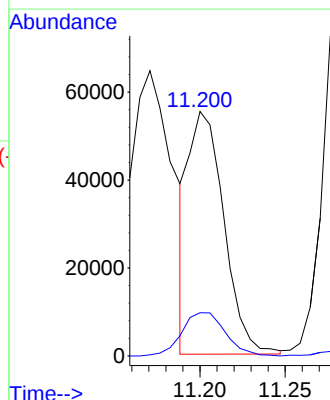
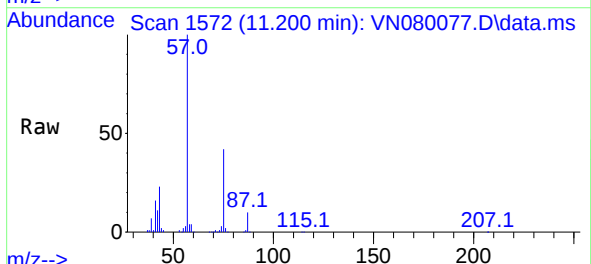
Acq: 14 Nov 2023 07:36

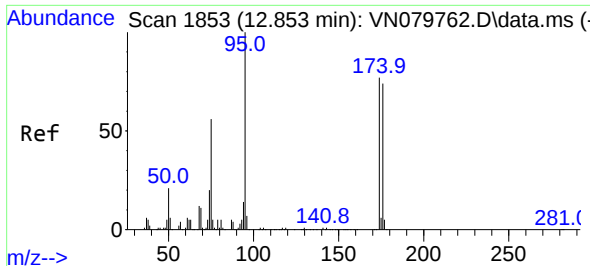
Tgt Ion: 43 Resp: 79715

Ion Ratio Lower Upper

43 100

58 22.0 31.7 95.1#

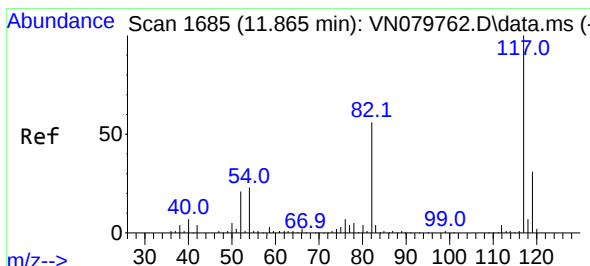
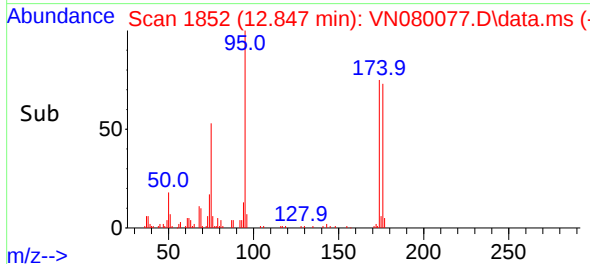
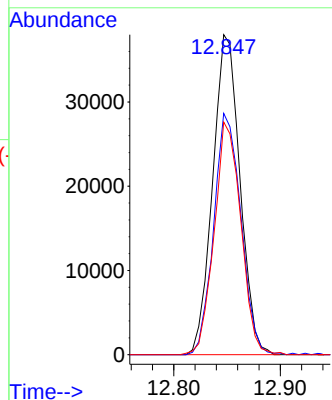
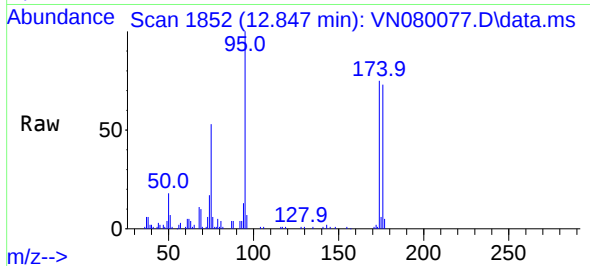




#62  
4-Bromofluorobenzene  
Concen: 54.725 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

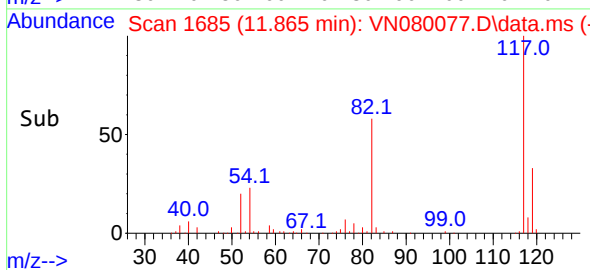
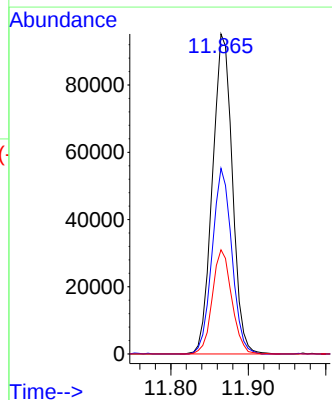
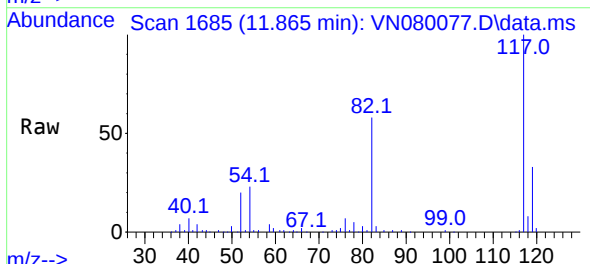
Instrument :  
MSVOA\_N  
ClientSampleId :

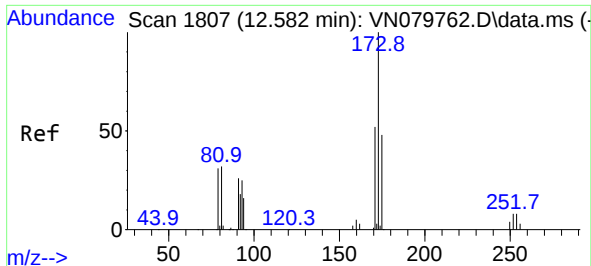
Tgt Ion: 95 Resp: 67493  
Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 143.8  
176 71.1 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 117 Resp: 169629  
Ion Ratio Lower Upper  
117 100  
82 58.0 44.0 66.0  
119 32.5 25.6 38.4

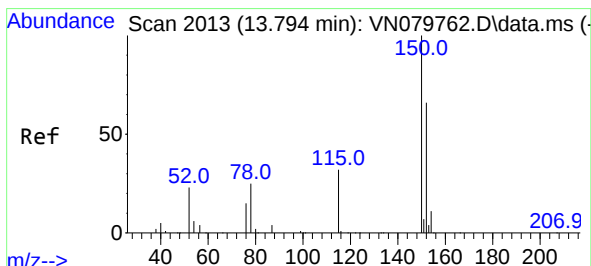
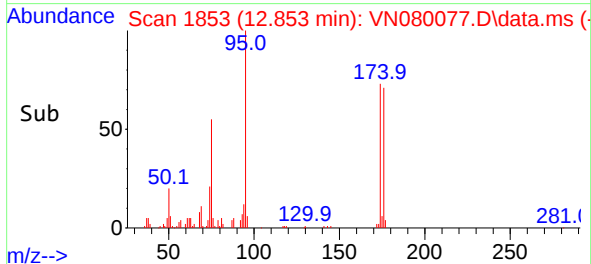
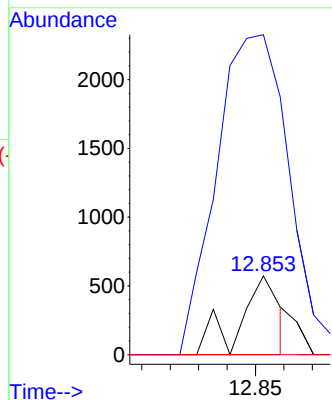
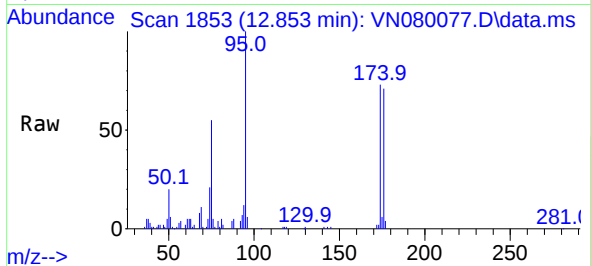




#71  
Bromoform  
Concen: 0.595 ug/l  
RT: 12.853 min Scan# 1807  
Delta R.T. 0.271 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

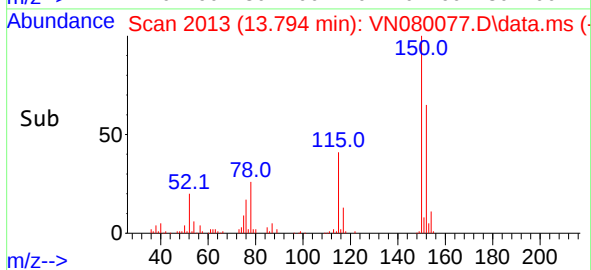
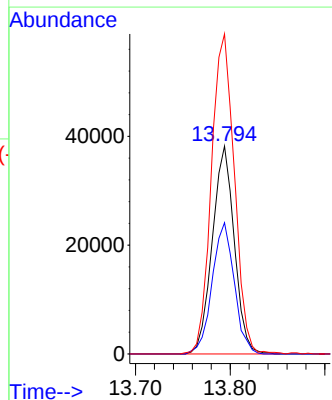
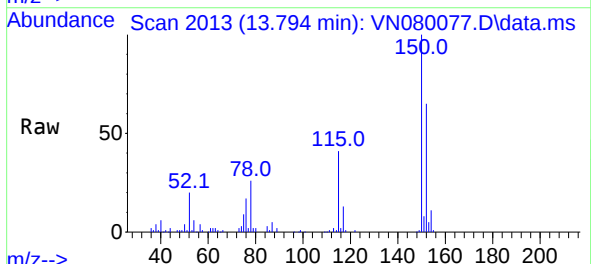
Instrument :  
MSVOA\_N  
ClientSampleId :

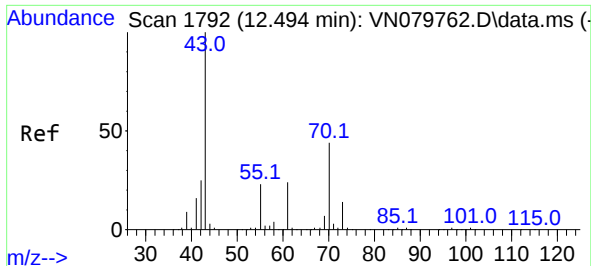
Tgt Ion:173 Resp: 560  
Ion Ratio Lower Upper  
173 100  
175 651.1 24.3 73.0#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 2013  
Delta R.T. 0.000 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

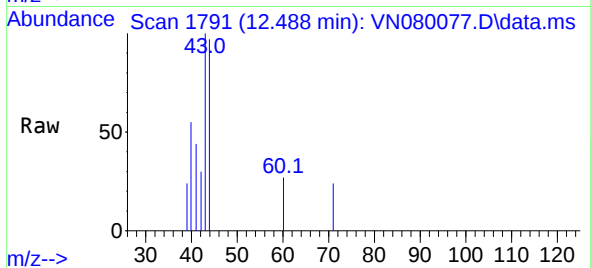
Tgt Ion:152 Resp: 61534  
Ion Ratio Lower Upper  
152 100  
115 63.5 32.3 96.8  
150 160.9 0.0 355.8





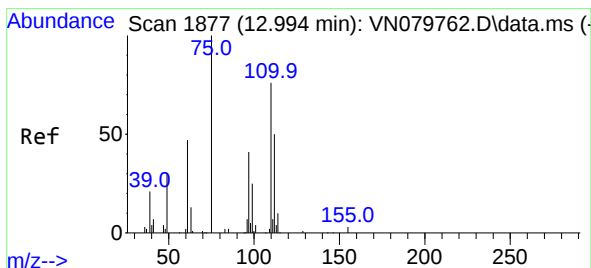
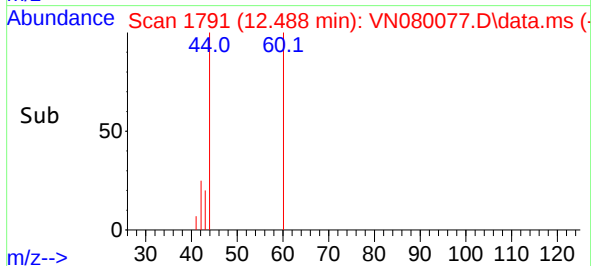
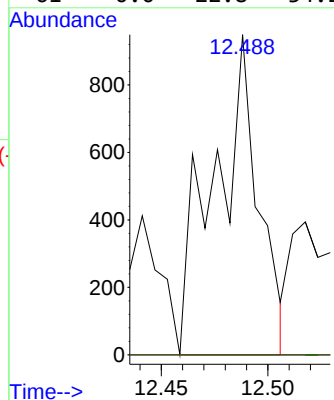
#74  
N-amy1 acetate  
Concen: 0.674 ug/l  
RT: 12.488 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 43 Resp: 1374

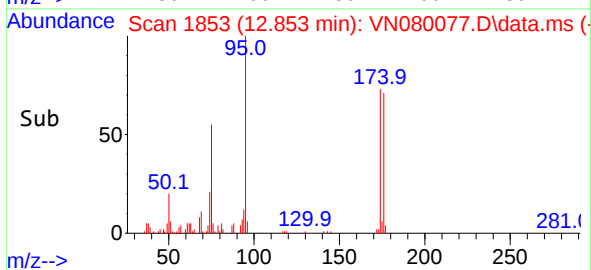
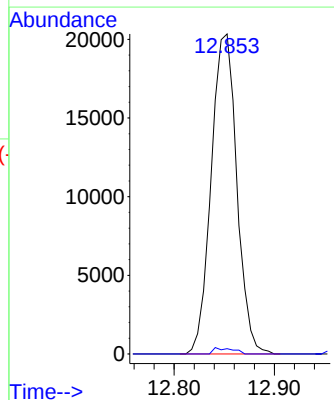
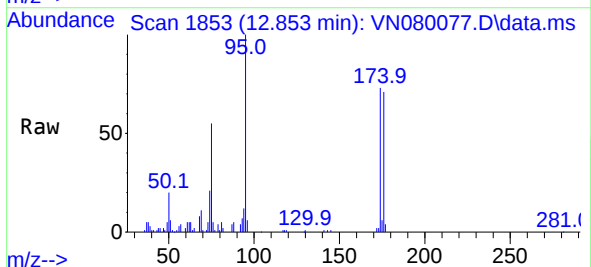
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 0.0   | 43.4  | 65.2# |
| 55  | 0.0   | 21.4  | 32.0# |
| 61  | 0.0   | 22.8  | 34.2# |

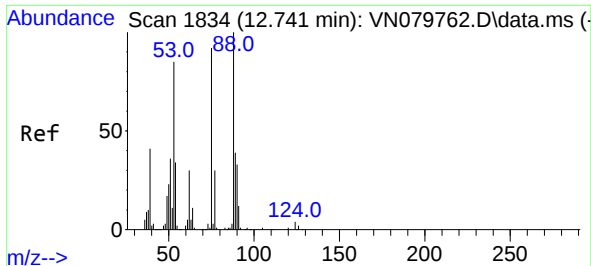


#76  
1,2,3-Trichloropropane  
Concen: 25.010 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN080077.D  
Acq: 14 Nov 2023 07:36

Tgt Ion: 75 Resp: 36131

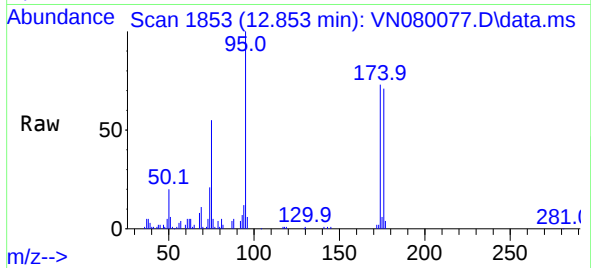
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 77  | 1.5   | 84.5  | 253.5# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.048 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN080077.D  
 Acq: 14 Nov 2023 07:36

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 36131  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 67.4 101.2#  
 89 0.0 38.8 58.2#

