

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061323\  
 Data File : VN078186.D  
 Acq On : 13 Jun 2023 15:12  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 14 02:20:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

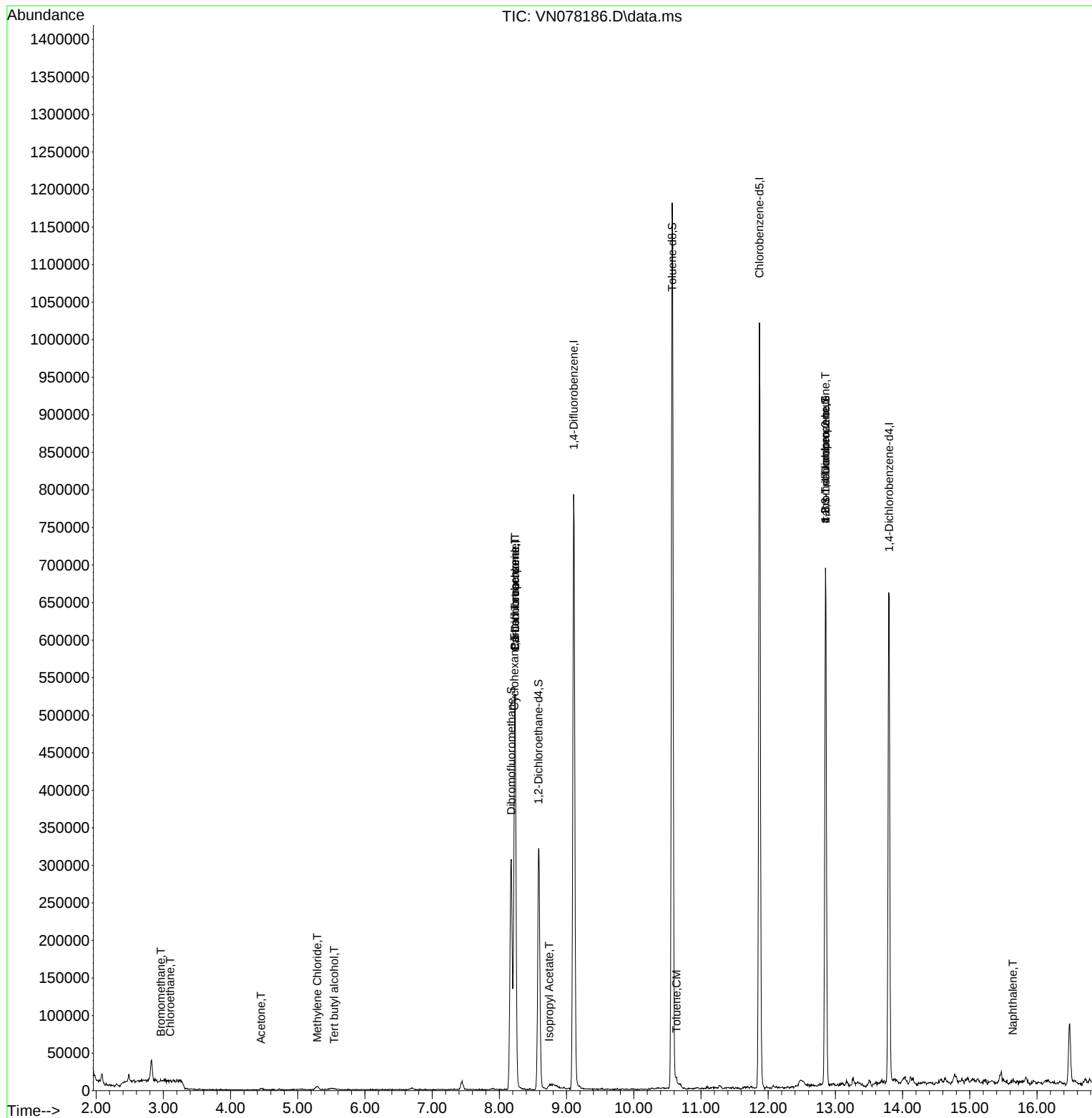
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.229     | 168   | 382265   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106     | 114   | 706002   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.870    | 117   | 602132   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800    | 152   | 180800   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.582     | 65    | 264249   | 51.846    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 125 | Recovery  | = 103.700% |          |
| 35) Dibromofluoromethane      | 8.177     | 113   | 221618   | 49.646    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | = 99.300%  |          |
| 50) Toluene-d8                | 10.570    | 98    | 861488   | 50.060    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 86 - 113 | Recovery  | = 100.120% |          |
| 62) 4-Bromofluorobenzene      | 12.853    | 95    | 248606   | 46.470    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | = 92.940%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 2.377     | 50    | 1269     | Below Cal | #          | 67       |
| 5) Bromomethane               | 2.965     | 94    | 964      | 0.225     | ug/l #     | 64       |
| 6) Chloroethane               | 3.100     | 64    | 1236     | 0.320     | ug/l #     | 43       |
| 11) Tert butyl alcohol        | 5.541     | 59    | 1432     | 2.035     | ug/l #     | 72       |
| 16) Acetone                   | 4.453     | 43    | 2189     | 1.492     | ug/l #     | 74       |
| 20) Methylene Chloride        | 5.289     | 84    | 3521     | 0.726     | ug/l #     | 70       |
| 31) Cyclohexane               | 8.224     | 56    | 8809     | 1.347     | ug/l #     | 67       |
| 36) 1,1-Dichloropropene       | 8.235     | 75    | 33485    | 5.230     | ug/l #     | 46       |
| 38) Carbon Tetrachloride      | 8.235     | 117   | 41828    | 6.187     | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 8.741     | 43    | 4162     | 0.435     | ug/l #     | 49       |
| 52) Toluene                   | 10.635    | 92    | 3069     | 0.254     | ug/l #     | 68       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935    | 83    | 176      | Below Cal | #          | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853    | 75    | 133565   | 31.249    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853    | 75    | 133565   | 96.008    | ug/l #     | 15       |
| 95) Naphthalene               | 15.641    | 128   | 2543     | 0.323     | ug/l #     | 68       |
| -----                         |           |       |          |           |            |          |

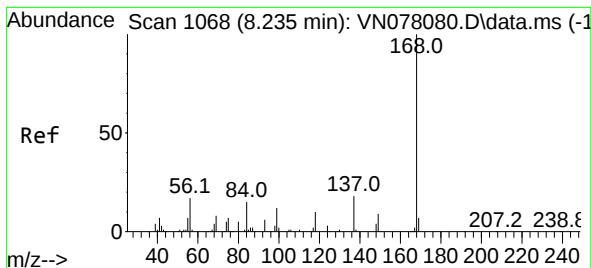
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061323\  
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QLast Update : Wed Jun 07 05:05:00 2023  
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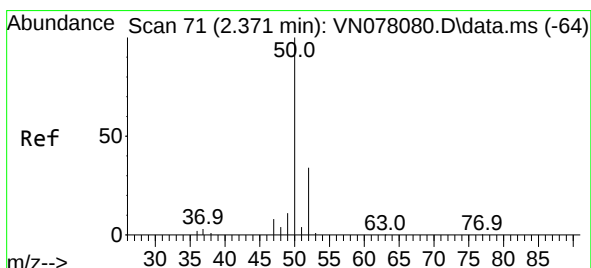
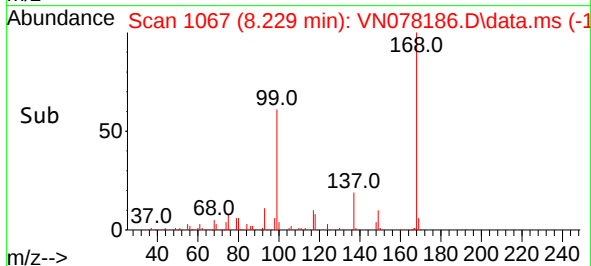
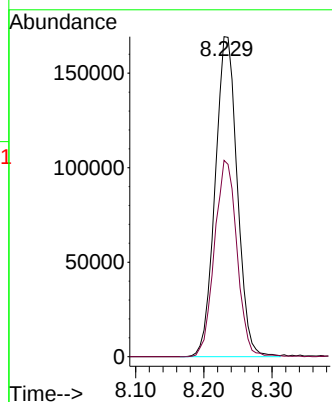
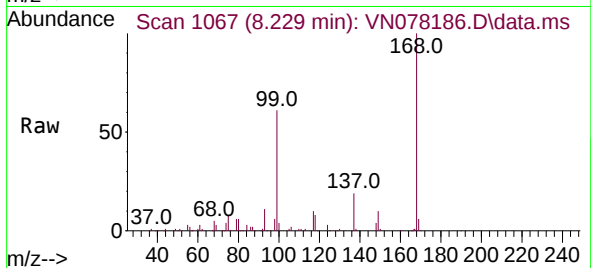




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.229 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

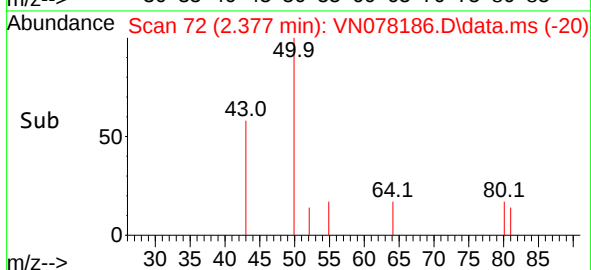
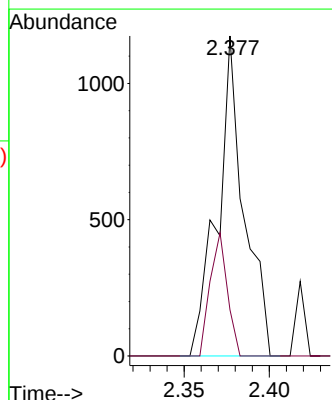
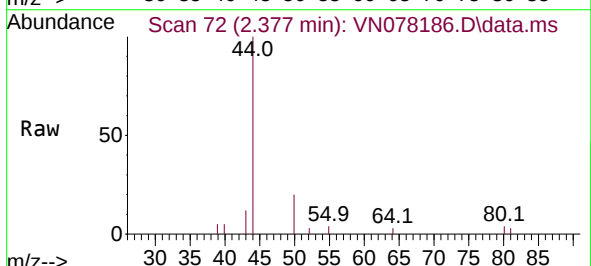
Instrument :  
MSVOA\_N  
ClientSampleId :

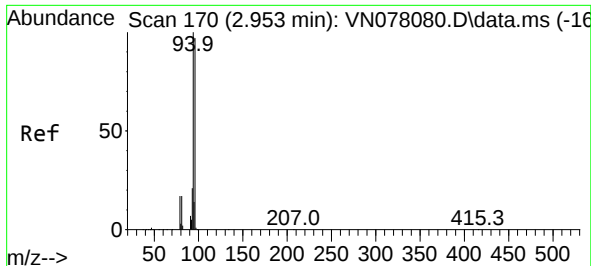
Tgt Ion:168 Resp: 382265  
Ion Ratio Lower Upper  
168 100  
99 61.4 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.006 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 50 Resp: 1269  
Ion Ratio Lower Upper  
50 100  
52 14.5 26.5 39.7#

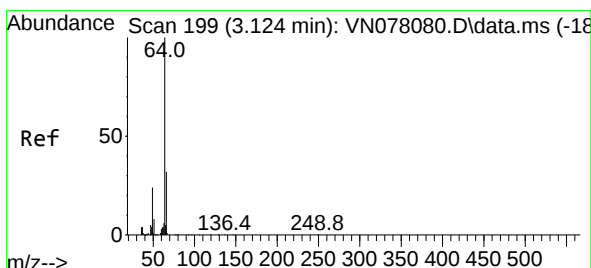
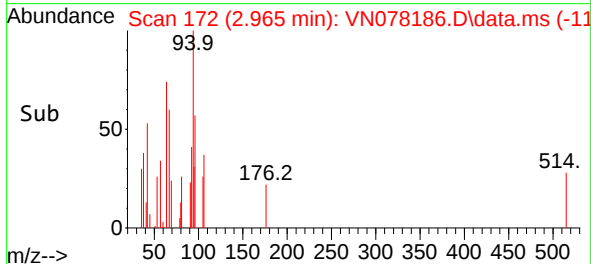
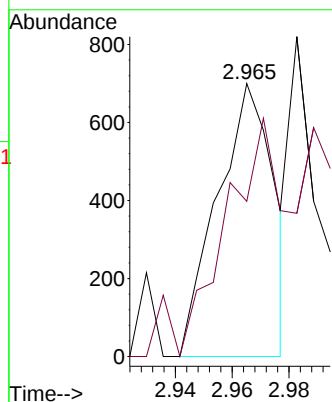
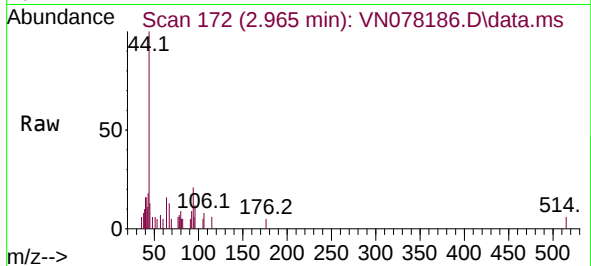




#5  
Bromomethane  
Concen: 0.225 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

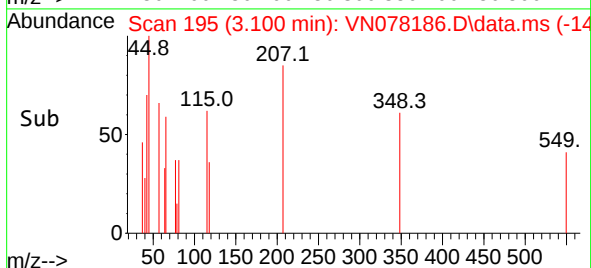
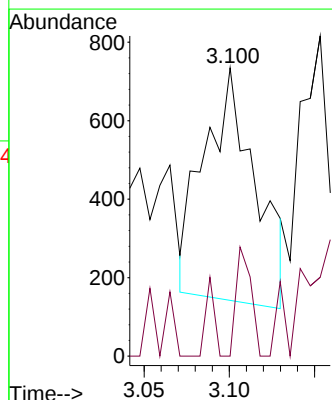
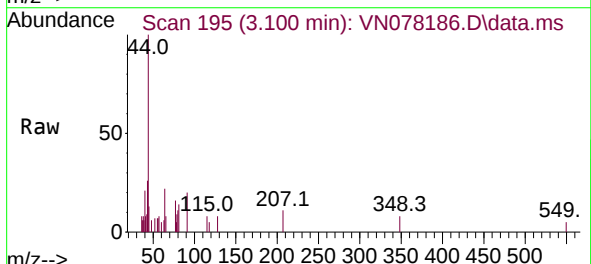
Instrument :  
MSVOA\_N  
ClientSampleId :

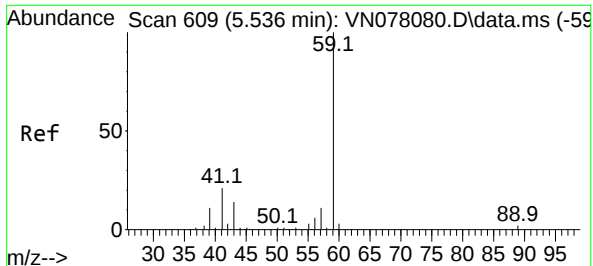
Tgt Ion: 94 Resp: 964  
Ion Ratio Lower Upper  
94 100  
96 56.9 73.1 109.7#



#6  
Chloroethane  
Concen: 0.320 ug/l  
RT: 3.100 min Scan# 195  
Delta R.T. -0.024 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 64 Resp: 1236  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#

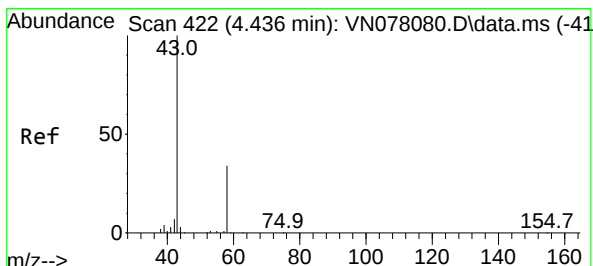
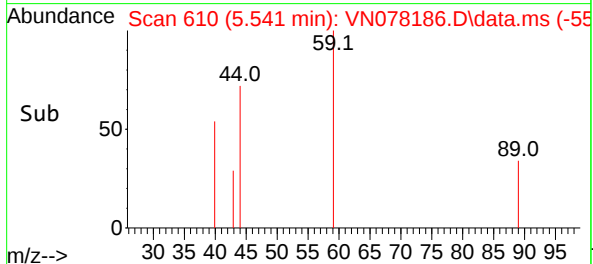
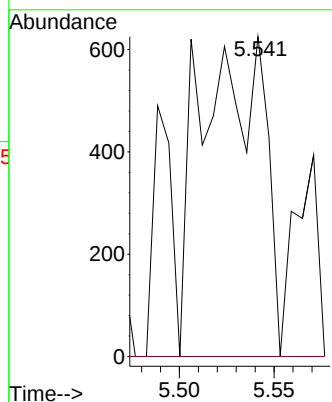
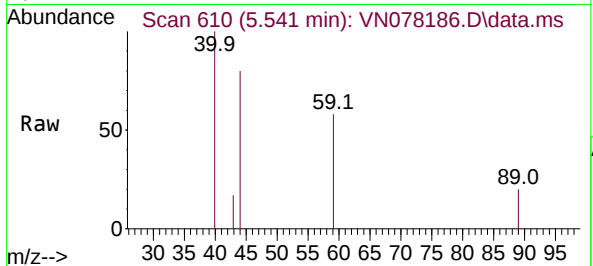




#11  
Tert butyl alcohol  
Concen: 2.035 ug/l  
RT: 5.541 min Scan# 610  
Delta R.T. 0.006 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

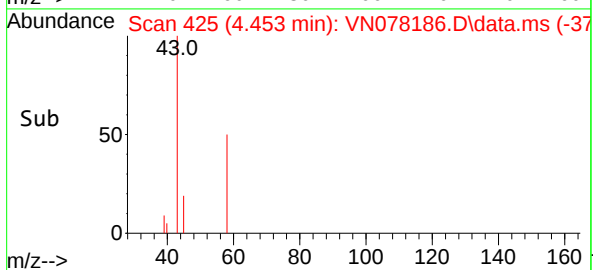
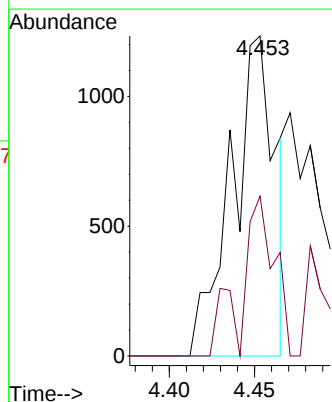
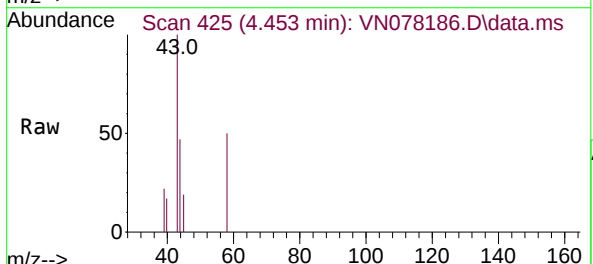
Instrument :  
MSVOA\_N  
ClientSampleId :

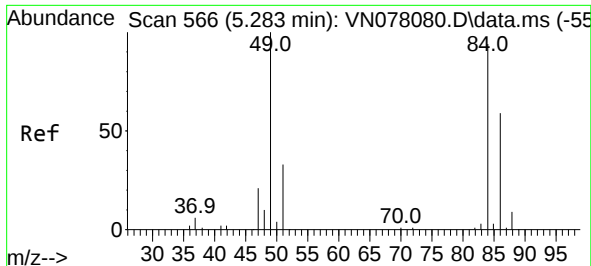
Tgt Ion: 59 Resp: 1432  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 1.492 ug/l  
RT: 4.453 min Scan# 425  
Delta R.T. 0.018 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

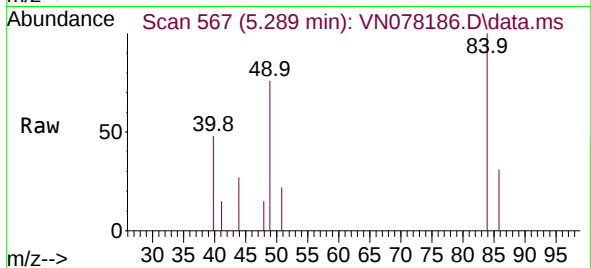
Tgt Ion: 43 Resp: 2189  
Ion Ratio Lower Upper  
43 100  
58 50.0 28.0 42.0#



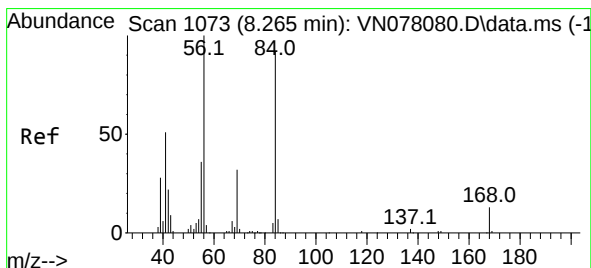
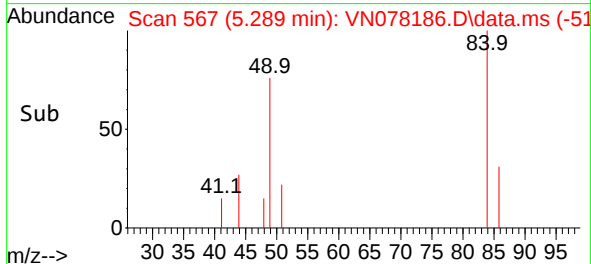
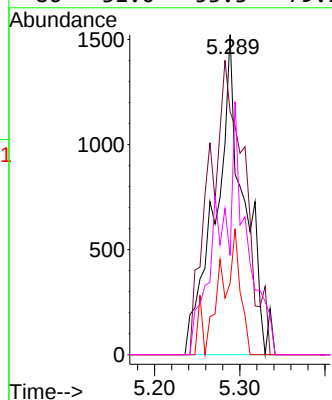


#20  
Methylene Chloride  
Concen: 0.726 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Instrument :  
MSVOA\_N  
ClientSampleId :

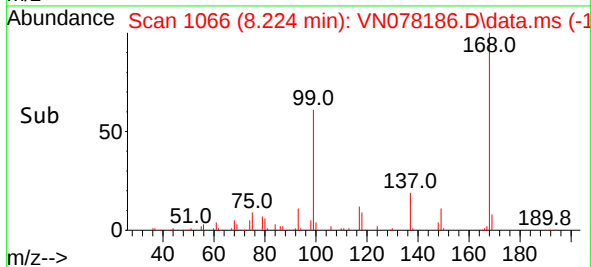
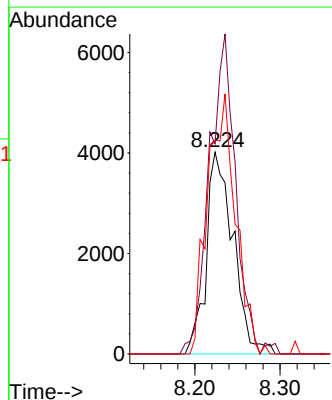
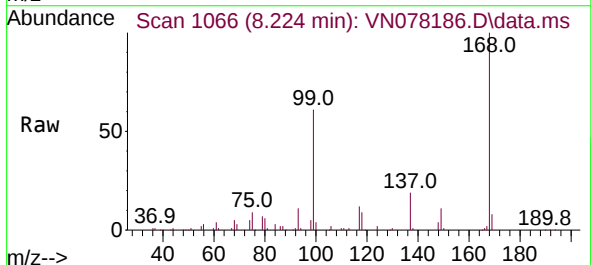


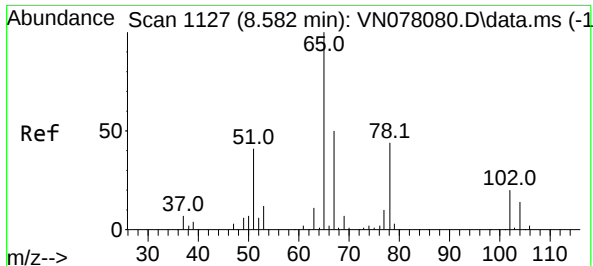
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 3521  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 75.9     | 79.7 119.5# |
| 51 22.4     | 25.2 37.8#  |
| 86 31.0     | 53.3 79.9#  |



#31  
Cyclohexane  
Concen: 1.347 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.041 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 8809  |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 104.2    | 26.8 40.2#  |
| 84 105.9    | 81.8 122.6  |





#33

1,2-Dichloroethane-d4

Concen: 51.846 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078186.D

Acq: 13 Jun 2023 15:12

Instrument :

MSVOA\_N

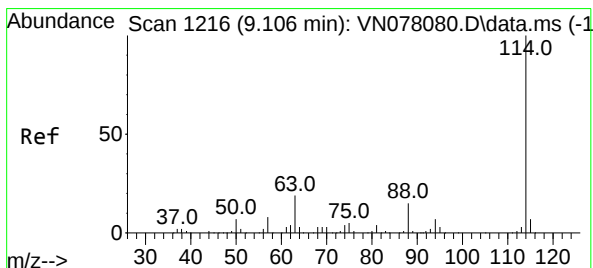
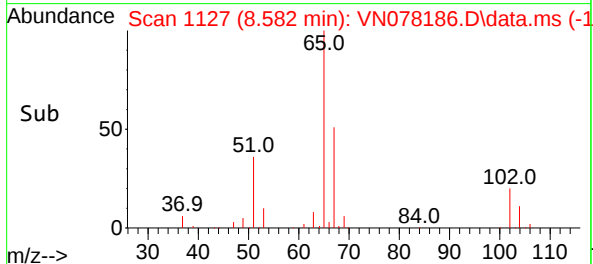
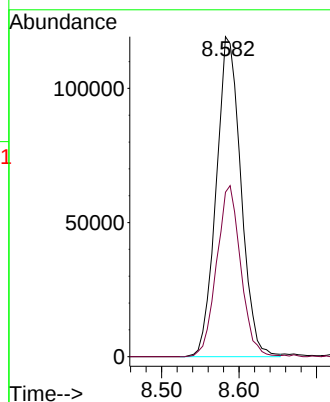
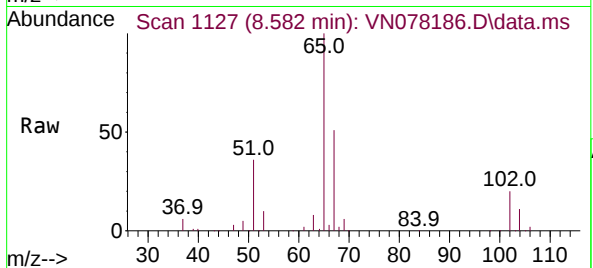
ClientSampleId :

Tgt Ion: 65 Resp: 264249

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078186.D

Acq: 13 Jun 2023 15:12

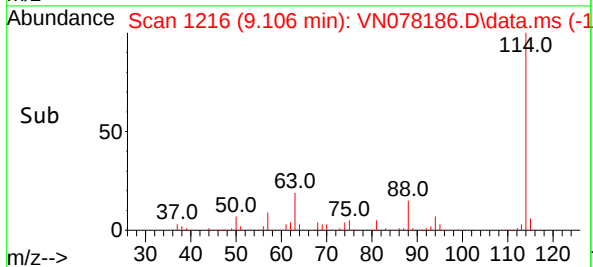
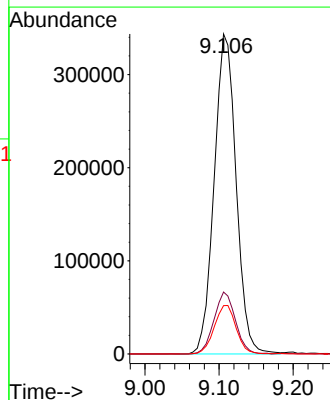
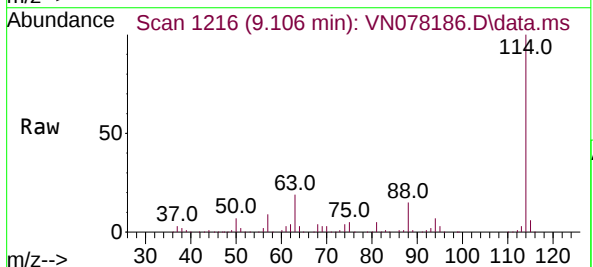
Tgt Ion: 114 Resp: 706002

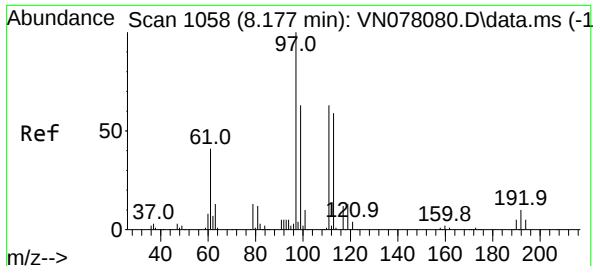
Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

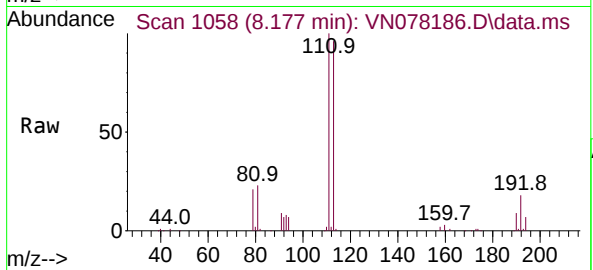
88 15.1 0.0 30.6



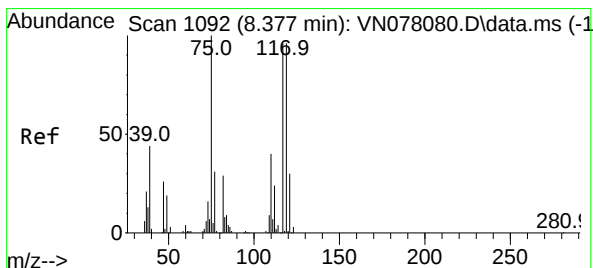
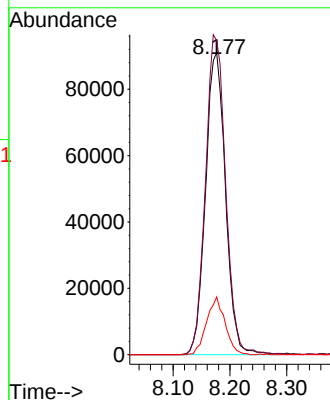
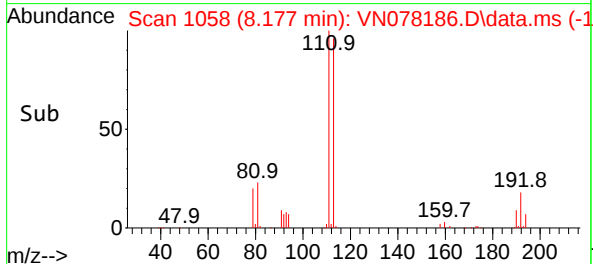


#35  
Dibromofluoromethane  
Concen: 49.646 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. -0.000 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

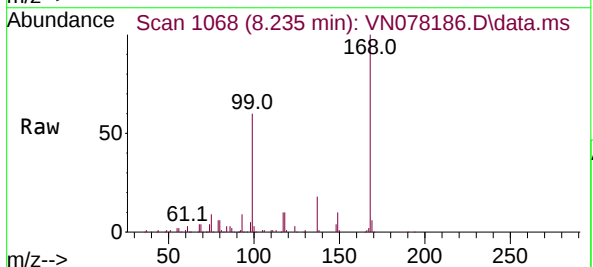
Instrument :  
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ClientSampleId :



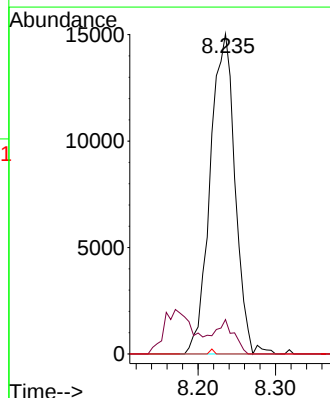
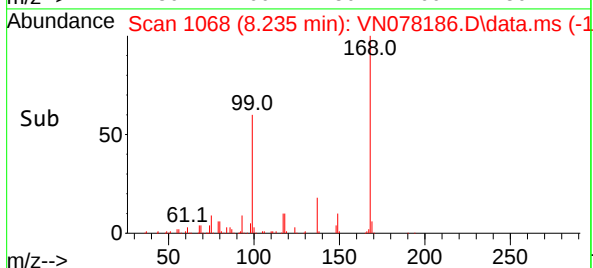
Tgt Ion:113 Resp: 221618  
Ion Ratio Lower Upper  
113 100  
111 107.0 82.6 123.8  
192 17.7 12.7 19.1

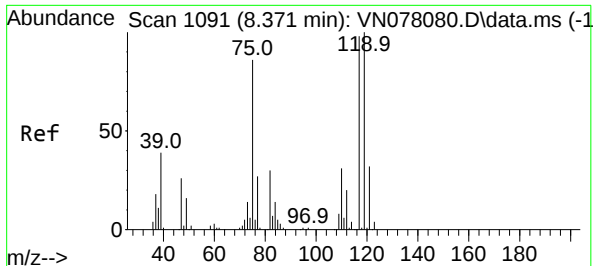


#36  
1,1-Dichloropropene  
Concen: 5.230 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.141 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12



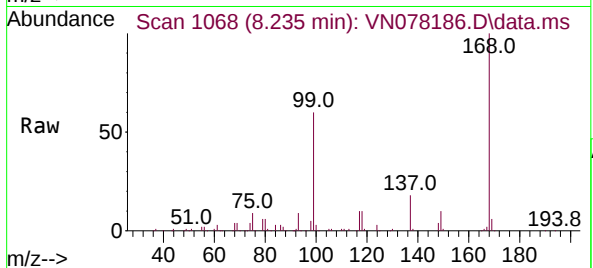
Tgt Ion: 75 Resp: 33485  
Ion Ratio Lower Upper  
75 100  
110 7.1 19.1 57.3#  
77 0.2 25.0 37.4#



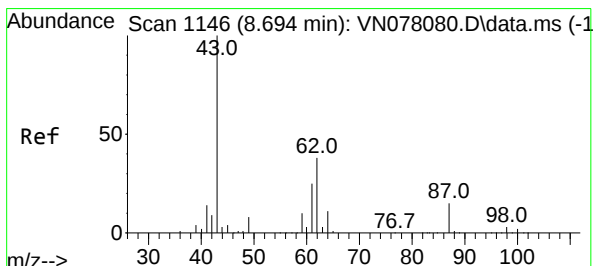
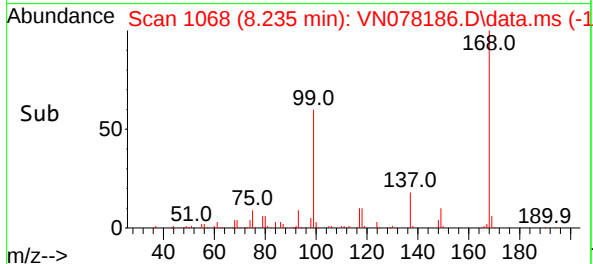
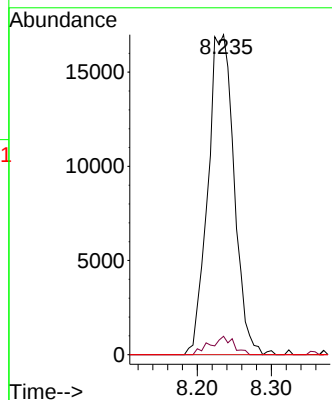


#38  
Carbon Tetrachloride  
Concen: 6.187 ug/l  
RT: 8.235 min Scan# 1107  
Delta R.T. -0.135 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Instrument :  
MSVOA\_N  
ClientSampleId :

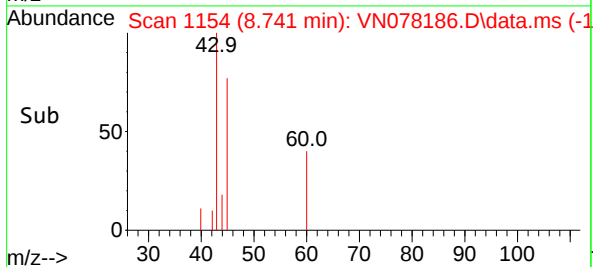
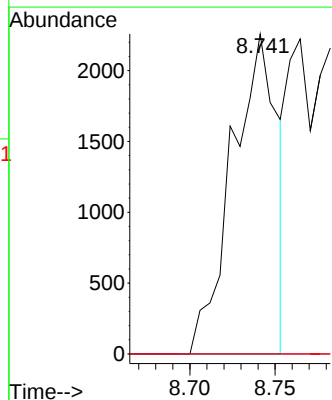
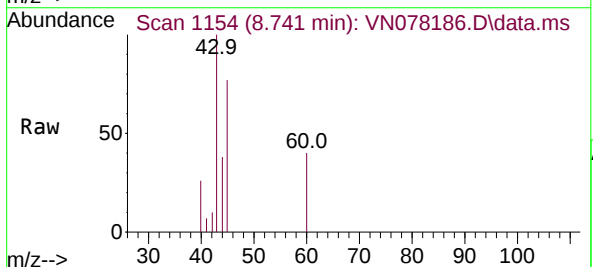


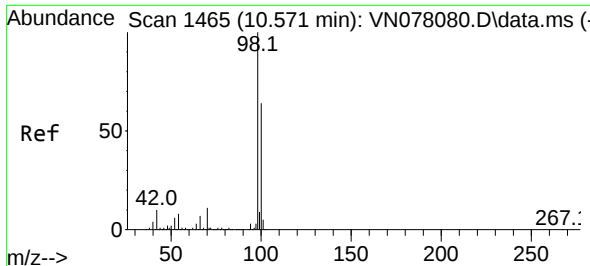
Tgt Ion:117 Resp: 41828  
Ion Ratio Lower Upper  
117 100  
119 5.7 77.3 115.9#  
121 0.0 23.3 34.9#



#43  
Isopropyl Acetate  
Concen: 0.435 ug/l  
RT: 8.741 min Scan# 1154  
Delta R.T. 0.047 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 43 Resp: 4162  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#

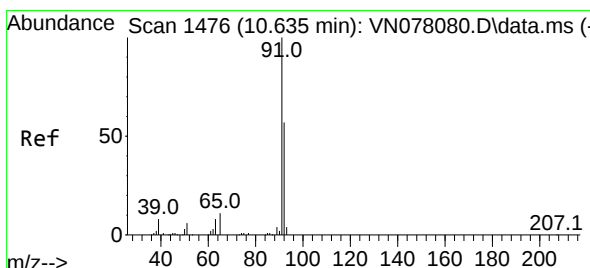
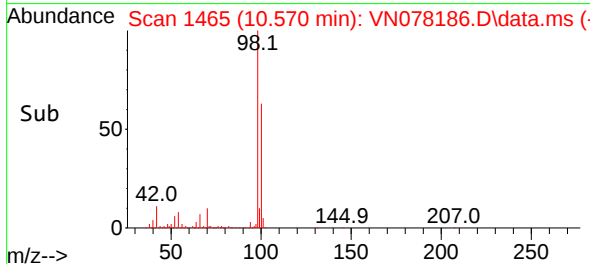
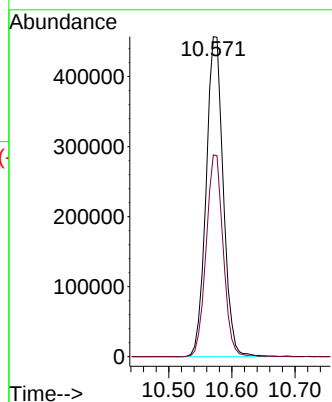
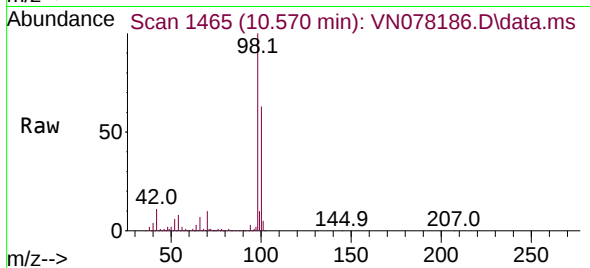




#50  
Toluene-d8  
Concen: 50.060 ug/l  
RT: 10.570 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

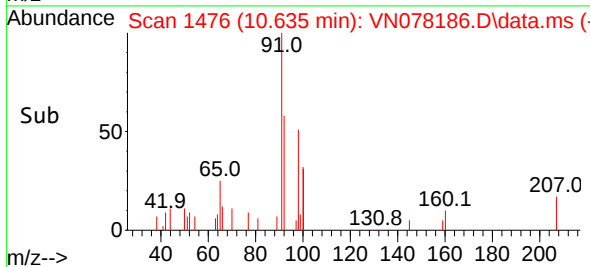
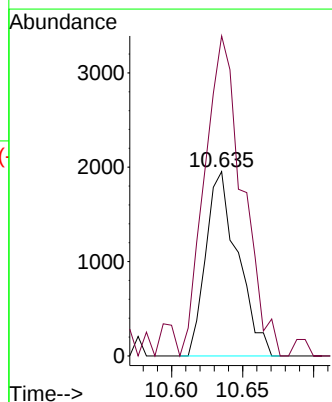
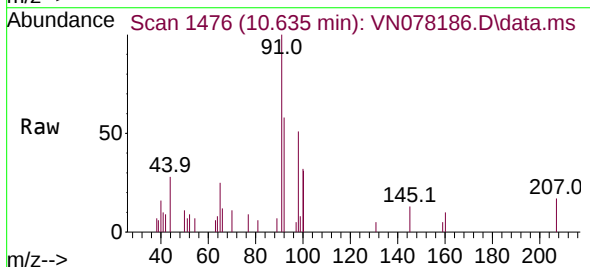
Instrument :  
MSVOA\_N  
ClientSampleId :

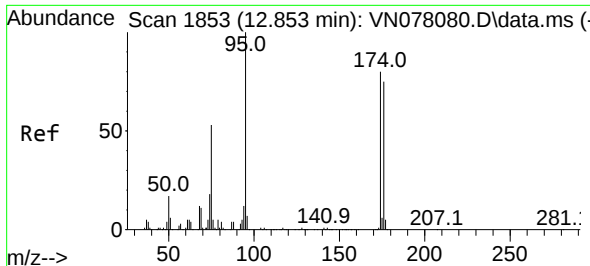
Tgt Ion: 98 Resp: 861488  
Ion Ratio Lower Upper  
98 100  
100 62.7 52.0 78.0



#52  
Toluene  
Concen: 0.254 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 92 Resp: 3069  
Ion Ratio Lower Upper  
92 100  
91 216.3 137.4 206.0#

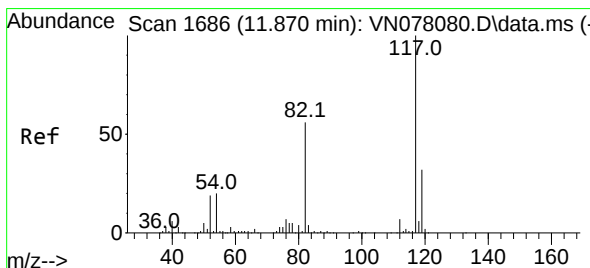
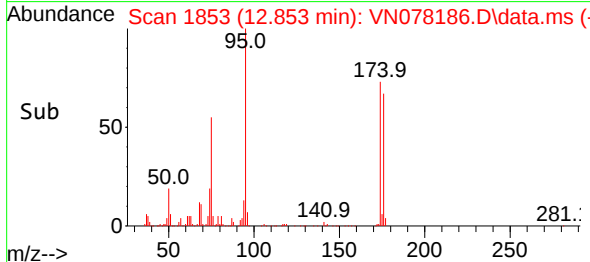
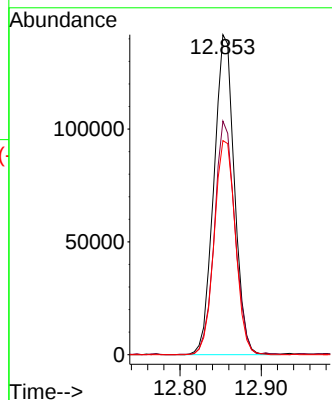
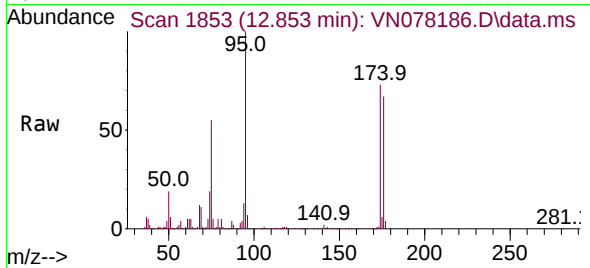




#62  
4-Bromofluorobenzene  
Concen: 46.470 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

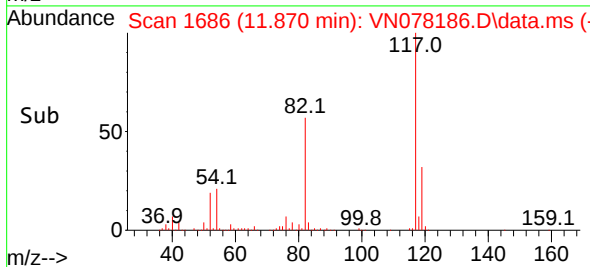
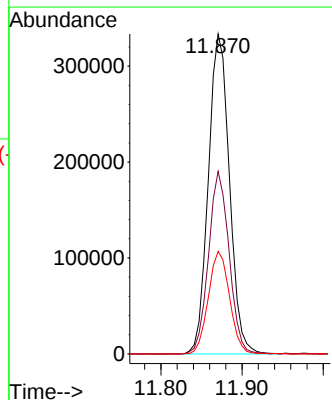
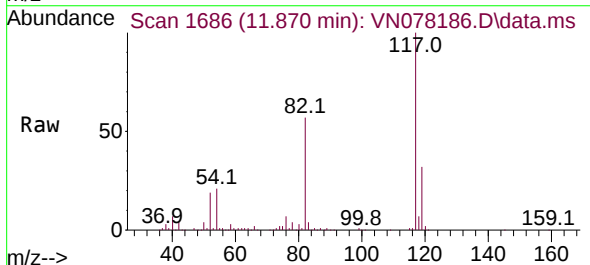
Instrument :  
MSVOA\_N  
ClientSampleId :

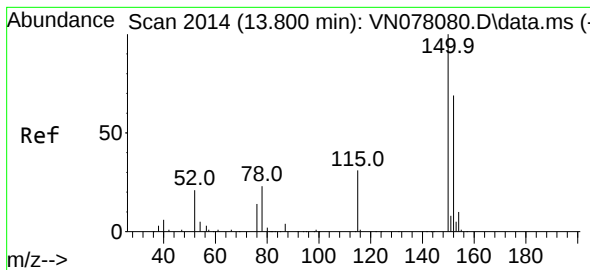
Tgt Ion: 95 Resp: 248606  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 143.8  
176 69.2 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 117 Resp: 602132  
Ion Ratio Lower Upper  
117 100  
82 57.0 44.0 66.0  
119 32.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

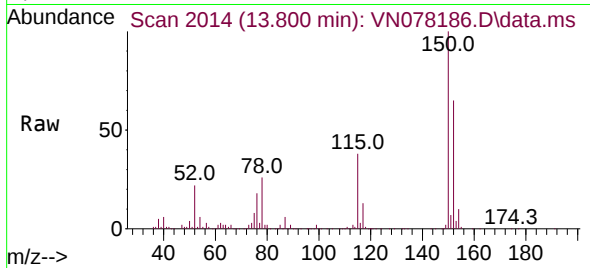
Lab File: VN078186.D

Acq: 13 Jun 2023 15:12

Instrument :

MSVOA\_N

ClientSampleId :



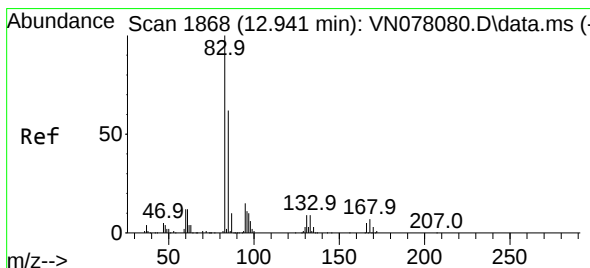
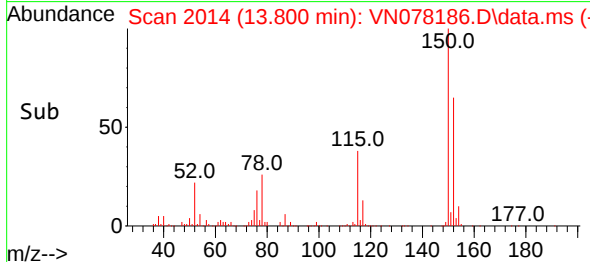
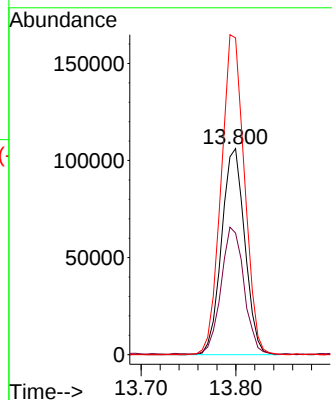
Tgt Ion:152 Resp: 180800

Ion Ratio Lower Upper

152 100

115 61.0 32.3 96.8

150 156.2 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078186.D

Acq: 13 Jun 2023 15:12

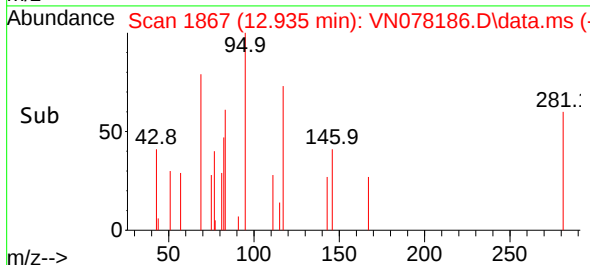
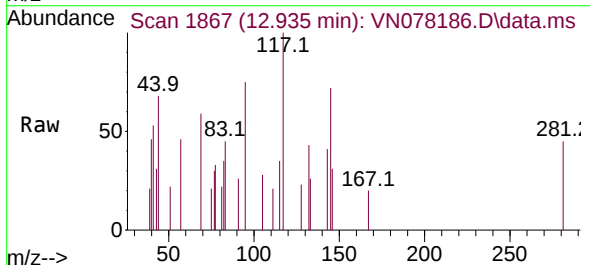
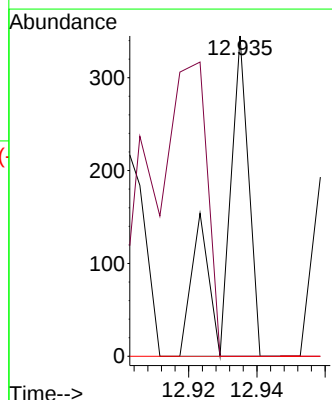
Tgt Ion: 83 Resp: 176

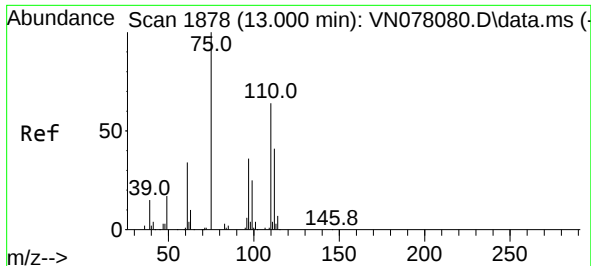
Ion Ratio Lower Upper

83 100

131 202.8 5.0 15.0#

85 0.0 31.9 95.7#

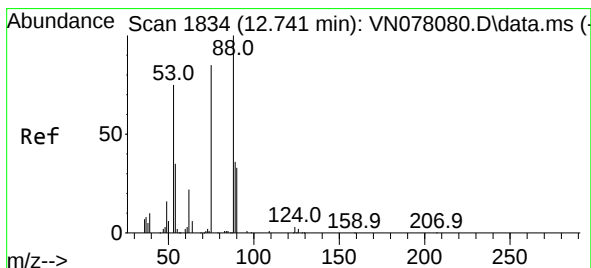
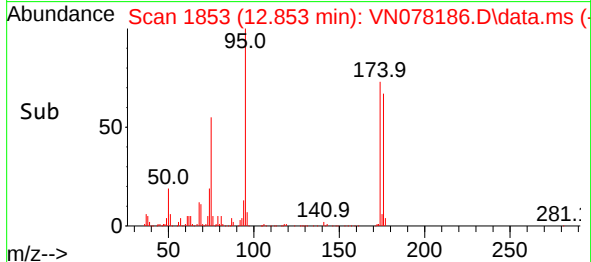
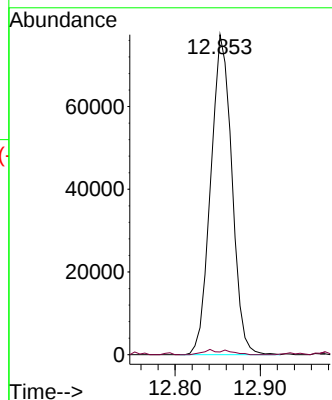
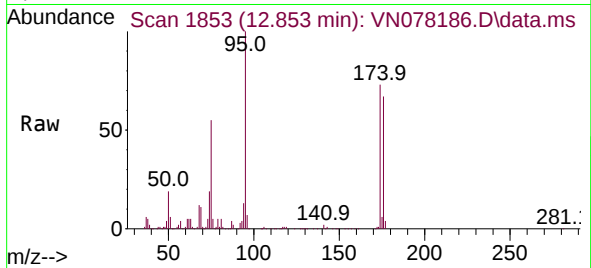




#76  
1,2,3-Trichloropropane  
Concen: 31.249 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

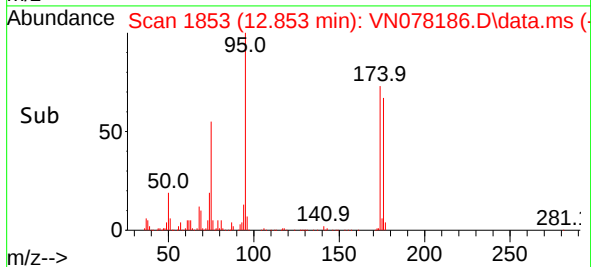
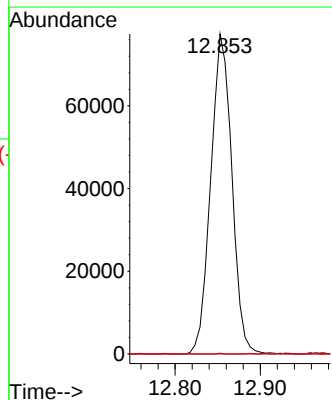
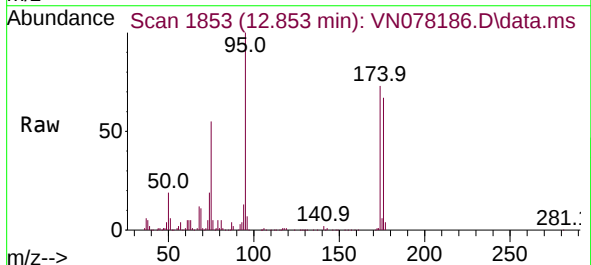
Instrument :  
MSVOA\_N  
ClientSampleId :

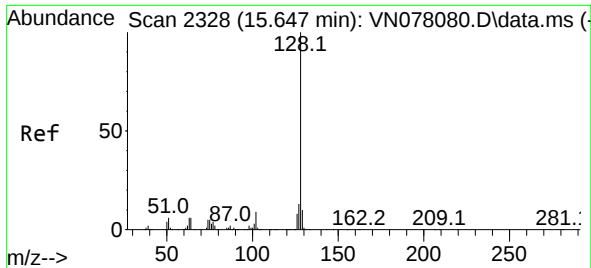
Tgt Ion: 75 Resp: 133565  
Ion Ratio Lower Upper  
75 100  
77 1.1 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.008 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Tgt Ion: 75 Resp: 133565  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.4 101.2#  
89 0.0 38.8 58.2#





#95  
Naphthalene  
Concen: 0.323 ug/l  
RT: 15.641 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN078186.D  
Acq: 13 Jun 2023 15:12

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 2543  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.0 15.0#  
129 22.8 8.7 13.1#

