

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052523\  
 Data File : VN077903.D  
 Acq On : 25 May 2023 15:38  
 Operator : JC\MD  
 Sample : 02944-13  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-EB-20230524

Quant Time: May 26 04:33:18 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

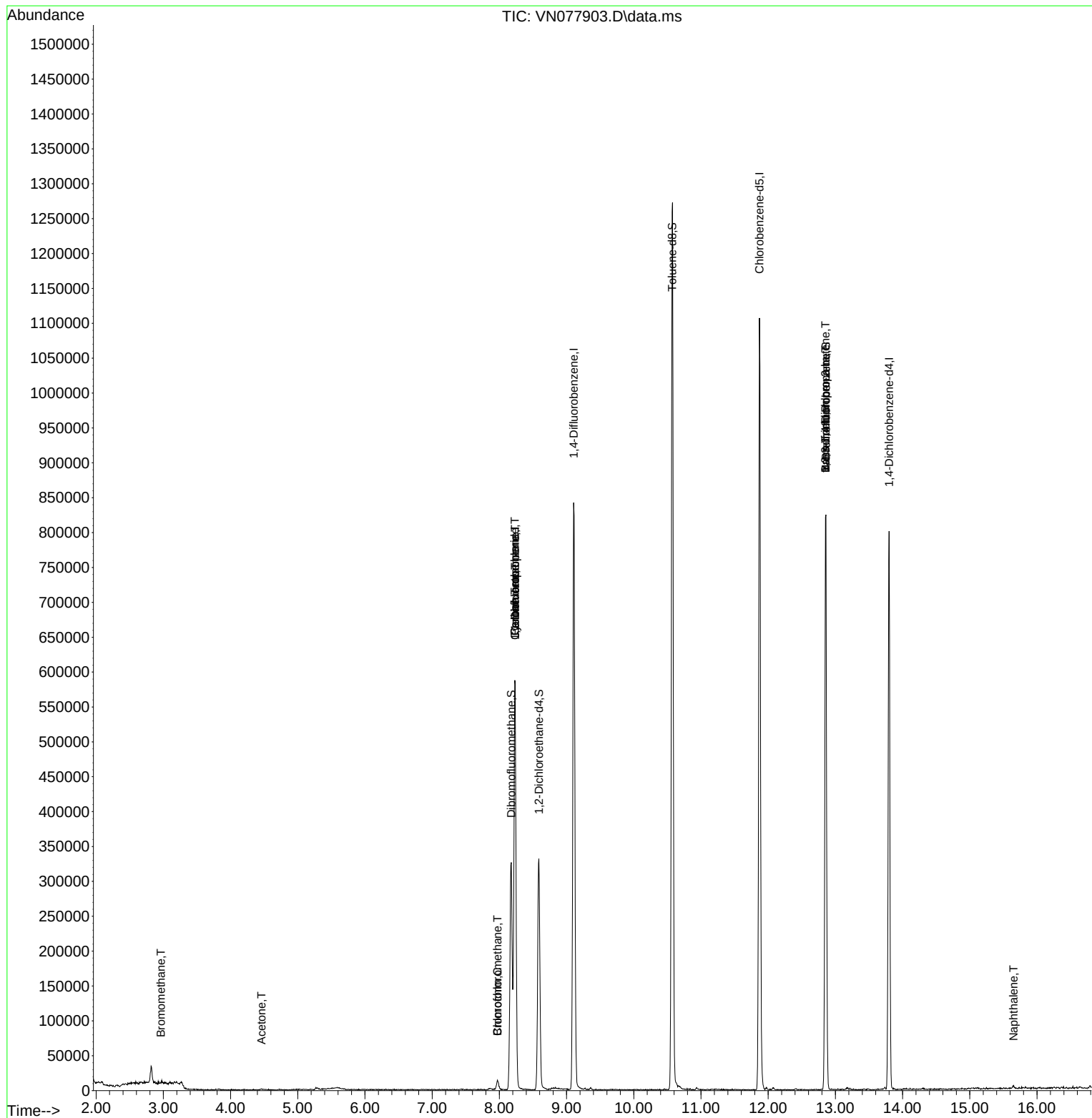
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 417000     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 773345     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 667155     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 213859     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 280740     | 44.995    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 89.980%   |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 239671     | 47.526    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 95.060%   |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 936366     | 48.240    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 96.480%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.859         | 95   | 308618     | 45.018    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 90.040%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.383          | 50   | 984        | Below Cal | #      | 43       |
| 5) Bromomethane               | 2.965          | 94   | 1841       | 0.416     | ug/l # | 56       |
| 13) Acrolein                  | 4.206          | 56   | 72         | Below Cal | #      | 1        |
| 16) Acetone                   | 4.459          | 43   | 1130       | 0.576     | ug/l # | 40       |
| 20) Methylene Chloride        | 5.294          | 84   | 1749       | Below Cal | #      | 81       |
| 28) Bromochloromethane        | 7.971          | 49   | 979        | 0.245     | ug/l # | 5        |
| 30) Chloroform                | 7.971          | 83   | 12525      | 1.231     | ug/l # | 79       |
| 31) Cyclohexane               | 8.235          | 56   | 9436       | 1.113     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.235          | 75   | 34469      | 4.673     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 45306      | 6.083     | ug/l # | 15       |
| 71) Bromoform                 | 12.853         | 173  | 2319       | 0.697     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 162392     | 30.321    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 162392     | 96.921    | ug/l # | 15       |
| 95) Naphthalene               | 15.653         | 128  | 3581       | 0.245     | ug/l # | 87       |
| -----                         |                |      |            |           |        |          |

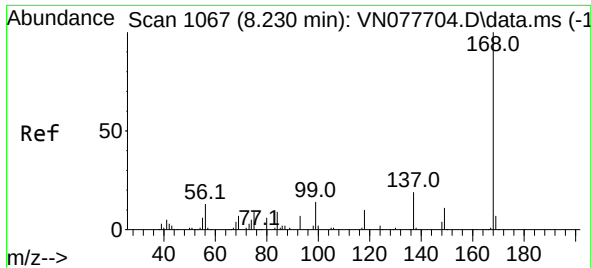
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
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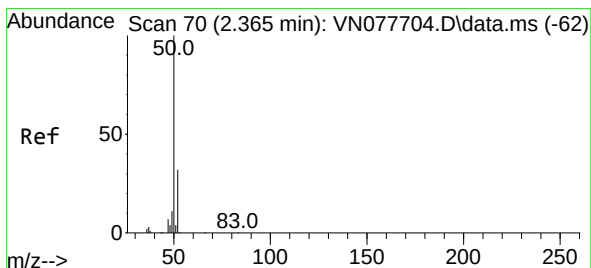
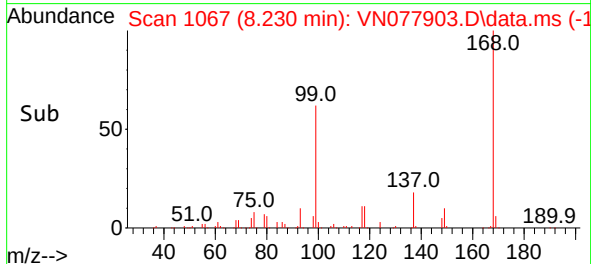
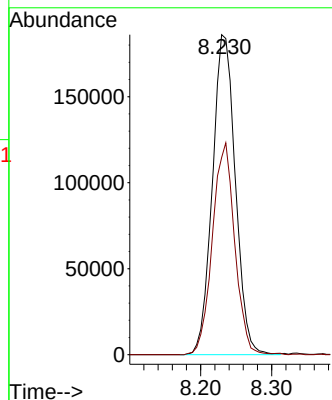
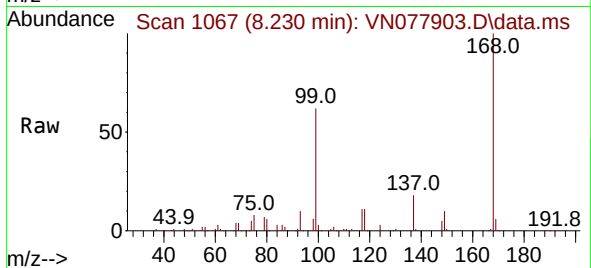




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

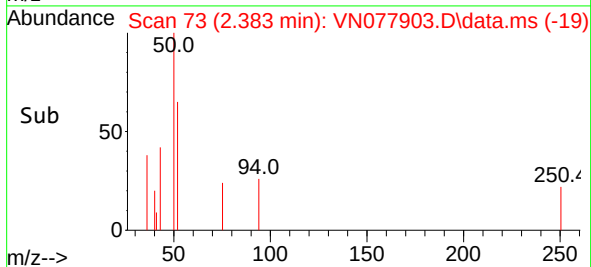
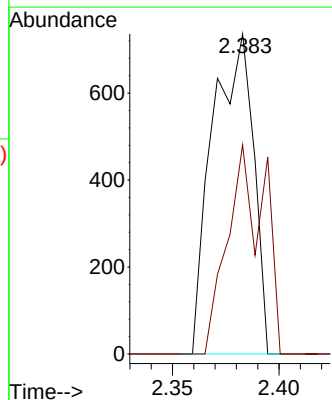
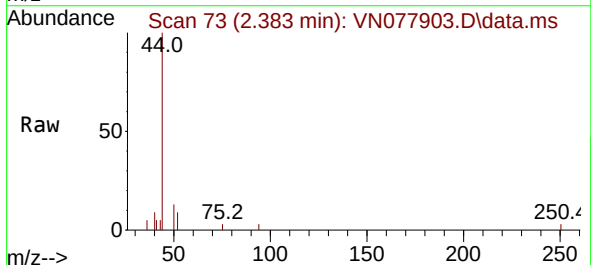
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

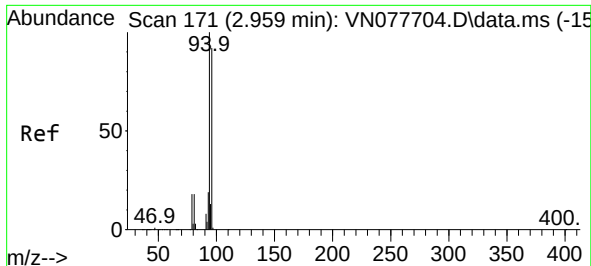
Tgt Ion:168 Resp: 417000  
Ion Ratio Lower Upper  
168 100  
99 61.6 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.383 min Scan# 73  
Delta R.T. 0.018 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion: 50 Resp: 984  
Ion Ratio Lower Upper  
50 100  
52 65.4 26.5 39.7#

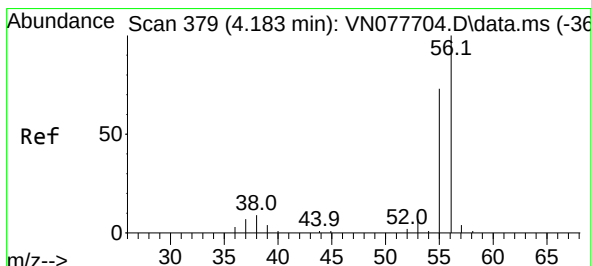
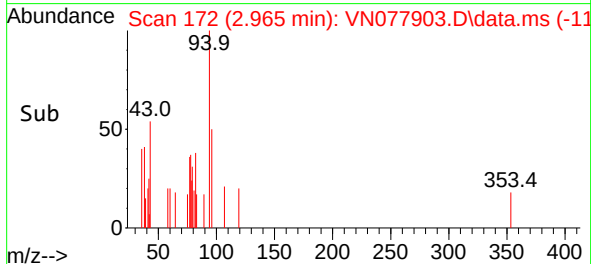
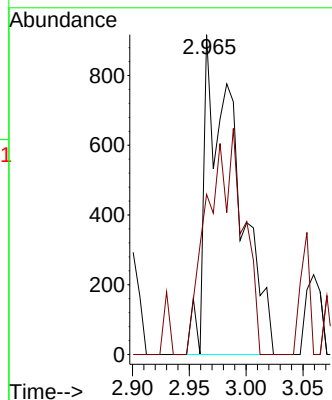
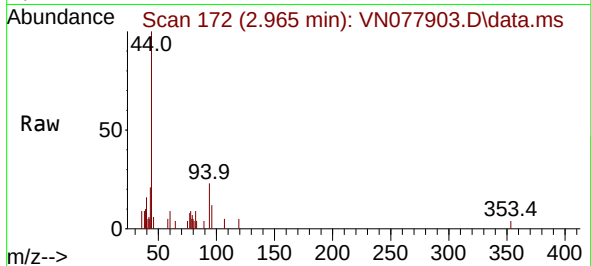




#5  
Bromomethane  
Concen: 0.416 ug/l  
RT: 2.965 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

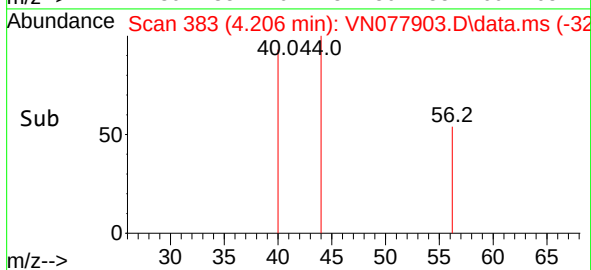
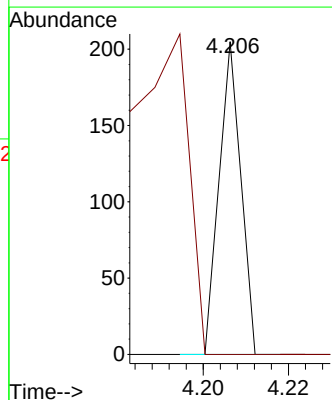
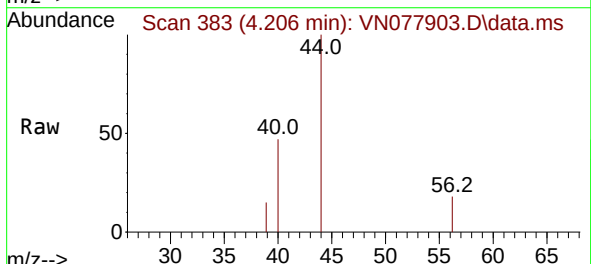
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

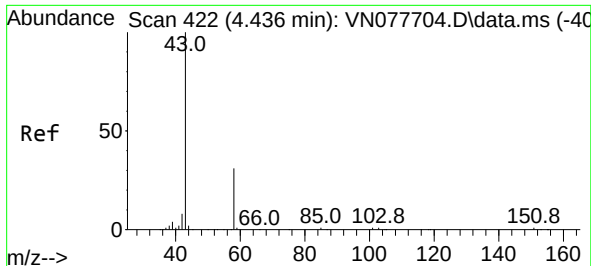
Tgt Ion: 94 Resp: 1841  
Ion Ratio Lower Upper  
94 100  
96 50.1 73.1 109.7#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.206 min Scan# 383  
Delta R.T. 0.017 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion: 56 Resp: 72  
Ion Ratio Lower Upper  
56 100  
55 266.7 54.5 81.7#

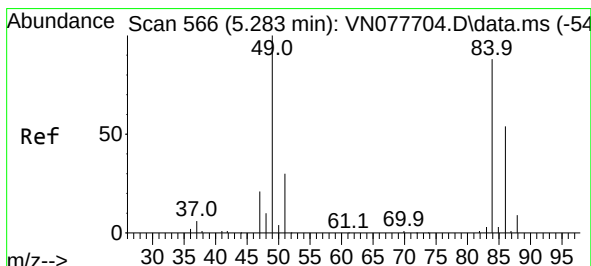
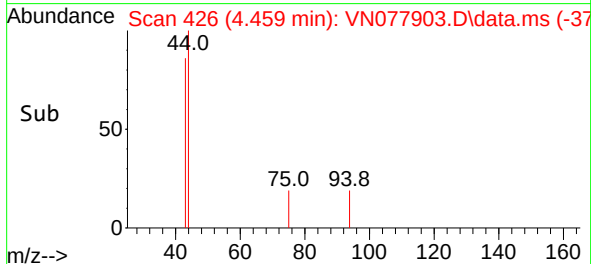
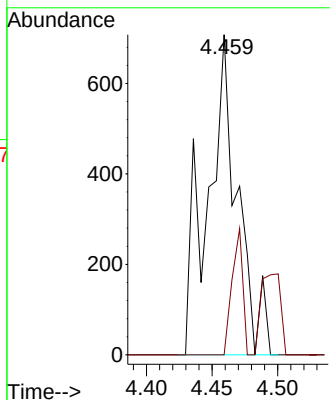
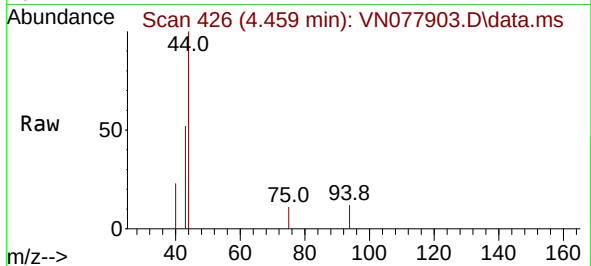




#16  
Acetone  
Concen: 0.576 ug/l  
RT: 4.459 min Scan# 41  
Delta R.T. 0.029 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

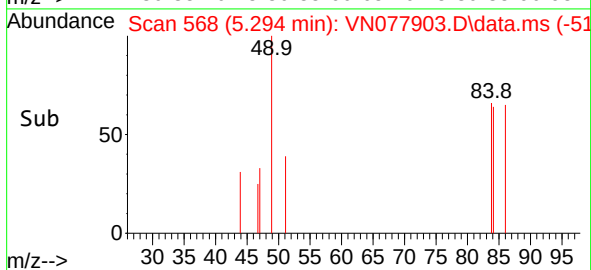
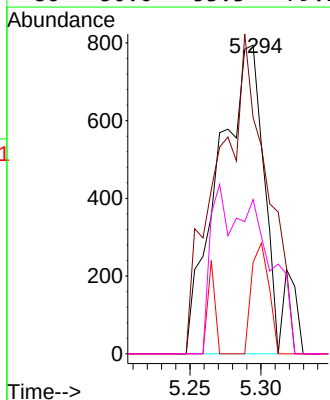
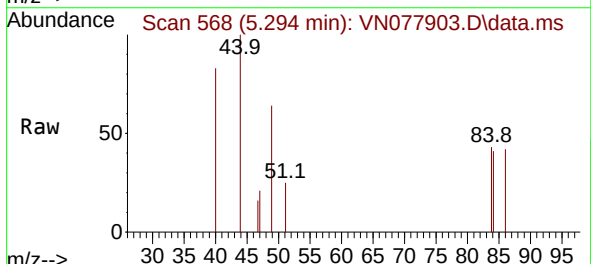
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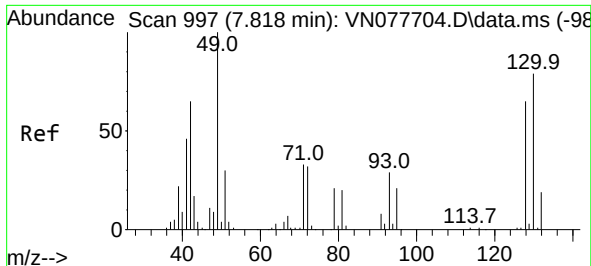
Tgt Ion: 43 Resp: 1130  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.294 min Scan# 568  
Delta R.T. 0.011 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion: 84 Resp: 1749  
Ion Ratio Lower Upper  
84 100  
49 76.6 79.7 119.5#  
51 29.6 25.2 37.8  
86 50.0 53.3 79.9#

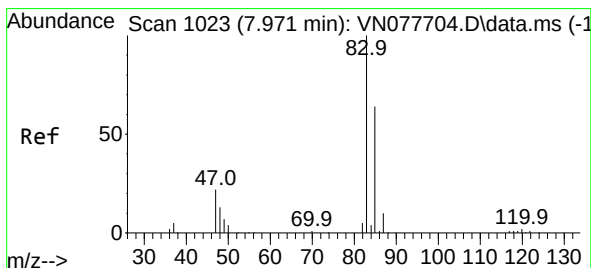
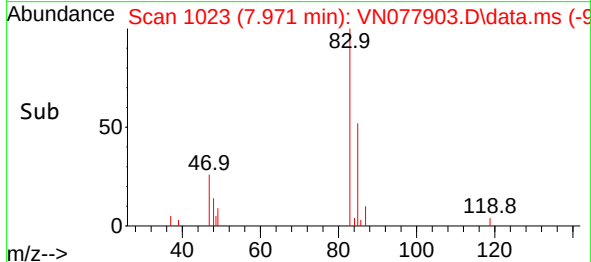
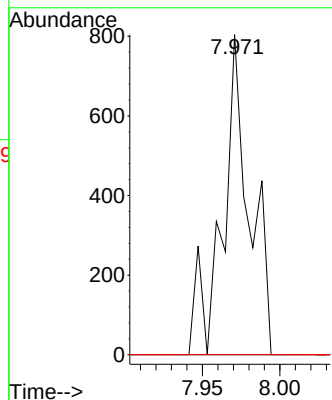
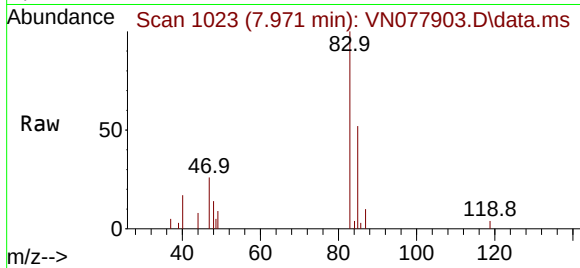




#28  
Bromochloromethane  
Concen: 0.245 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. 0.153 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

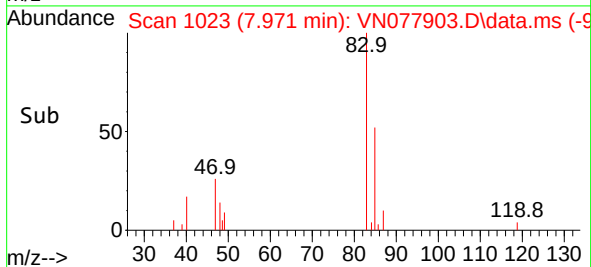
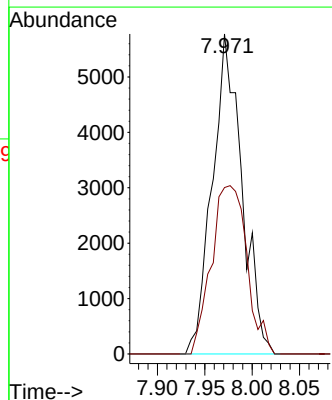
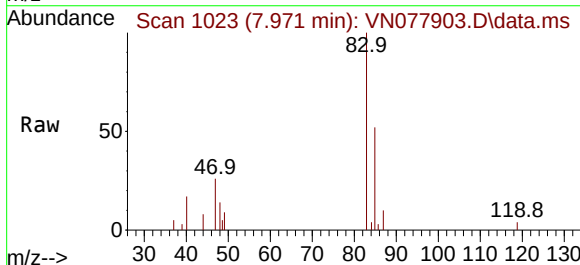
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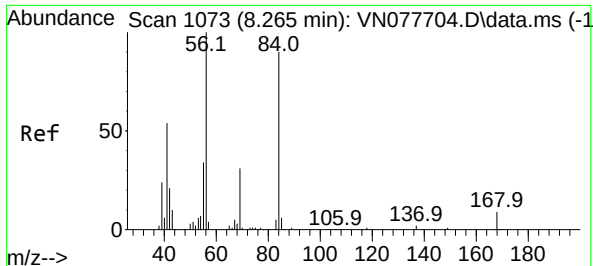
Tgt Ion: 49 Resp: 979  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.8  
130 0.0 75.3 112.9#



#30  
Chloroform  
Concen: 1.231 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. -0.000 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

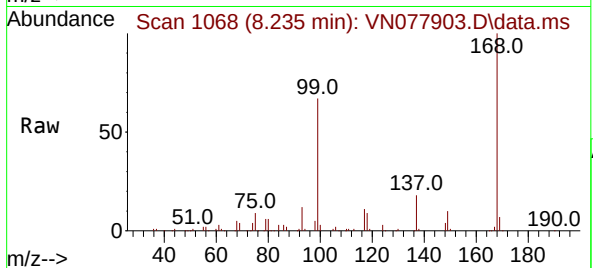
Tgt Ion: 83 Resp: 12525  
Ion Ratio Lower Upper  
83 100  
85 52.0 55.4 83.0#



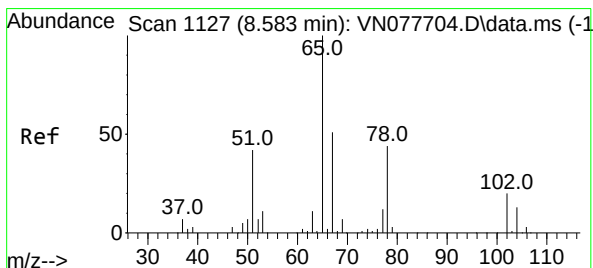
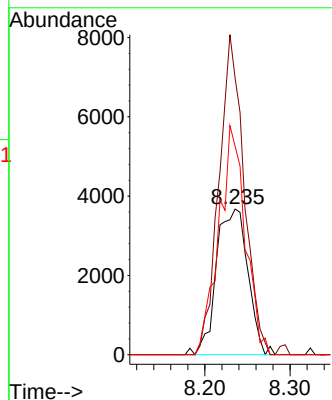
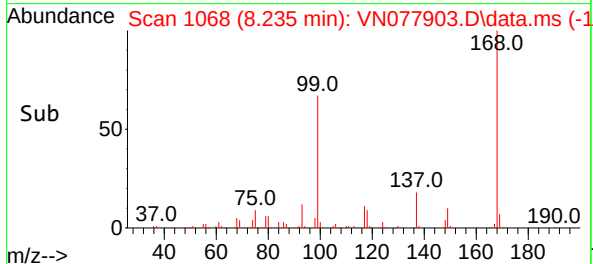


#31  
Cyclohexane  
Concen: 1.113 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.030 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
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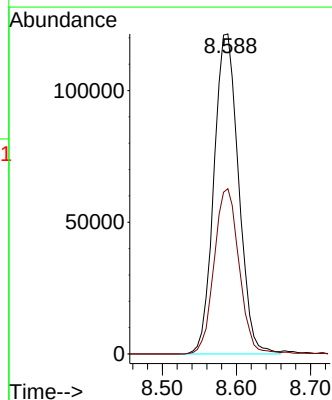
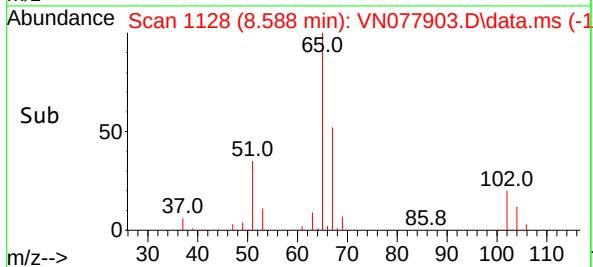
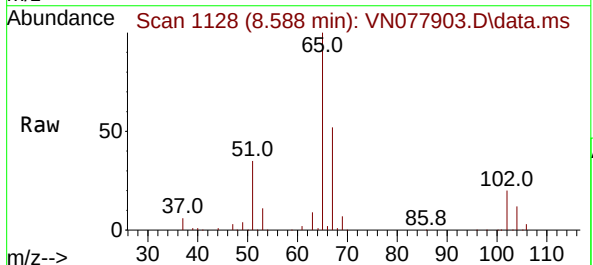


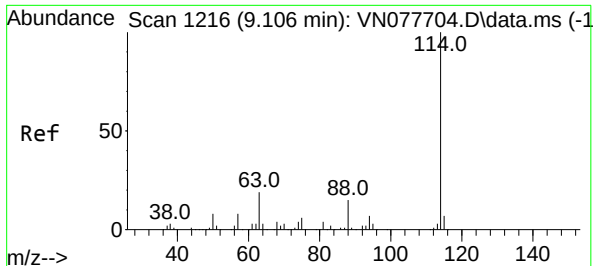
Tgt Ion: 56 Resp: 9436  
Ion Ratio Lower Upper  
56 100  
69 190.2 26.8 40.2#  
84 143.4 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 44.995 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion: 65 Resp: 280740  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 106.6

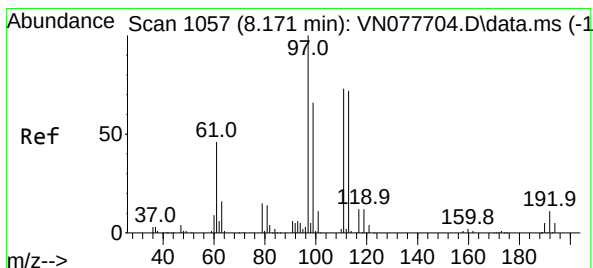
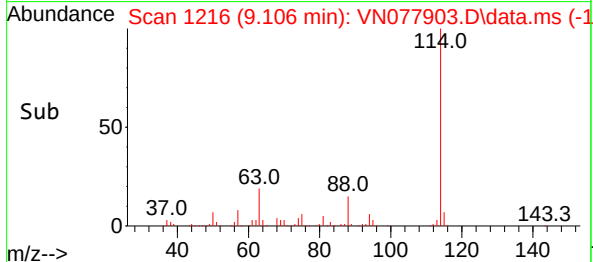
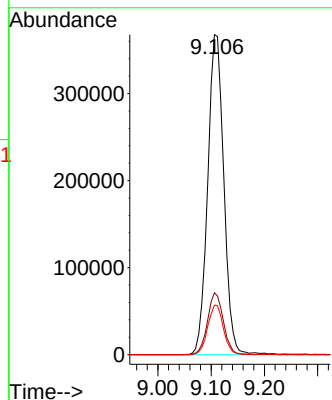
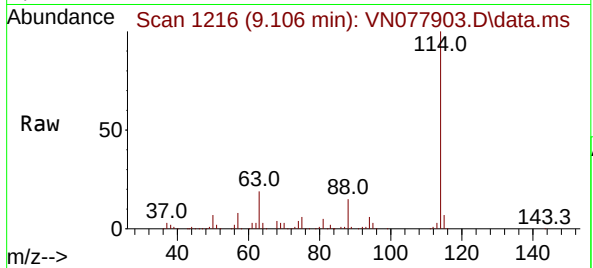




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

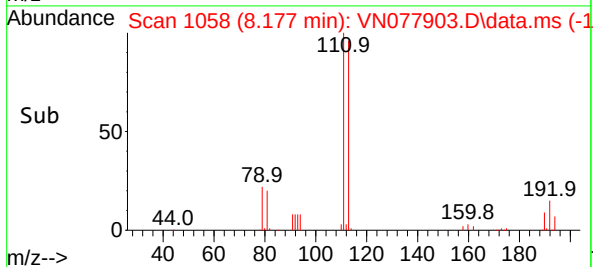
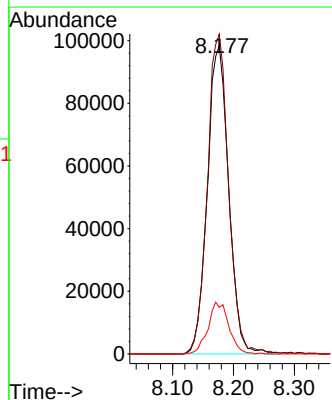
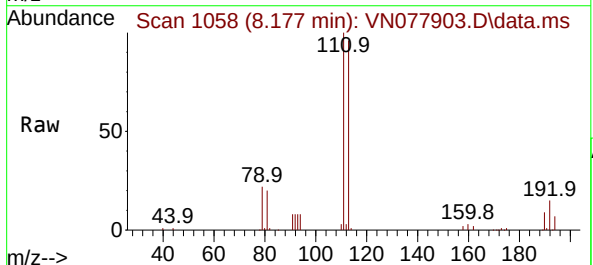
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

Tgt Ion:114 Resp: 773345  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 36.4  
88 15.5 0.0 30.6

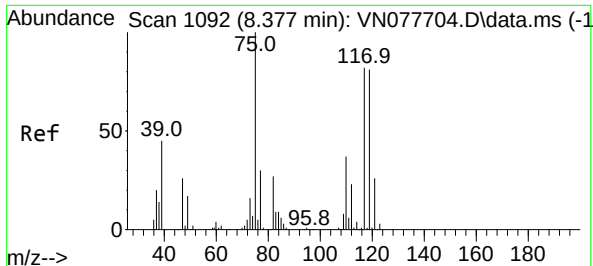


#35  
Dibromofluoromethane  
Concen: 47.526 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. 0.006 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion:113 Resp: 239671  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.6 123.8  
192 16.4 12.7 19.1







#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN077903.D

Acq: 25 May 2023 15:38

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-EB-20230524

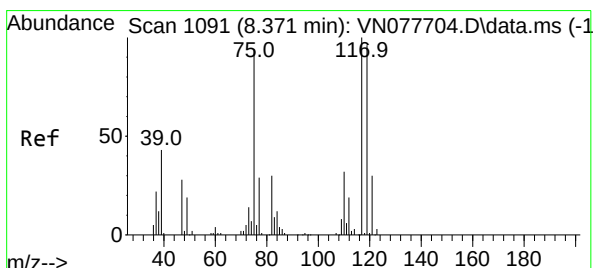
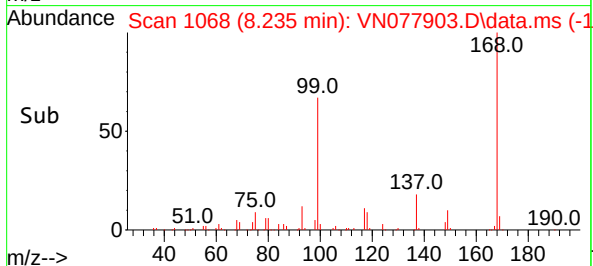
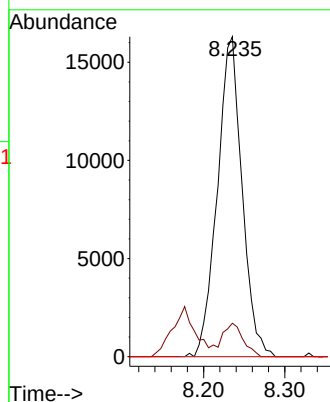
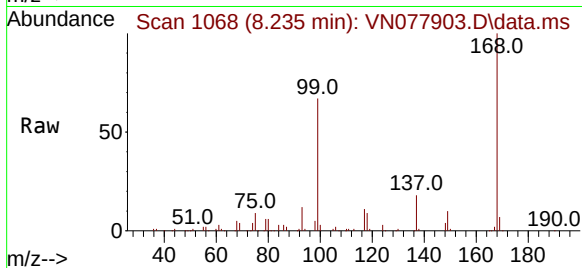
Tgt Ion: 75 Resp: 34469

Ion Ratio Lower Upper

75 100

110 8.2 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.083 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN077903.D

Acq: 25 May 2023 15:38

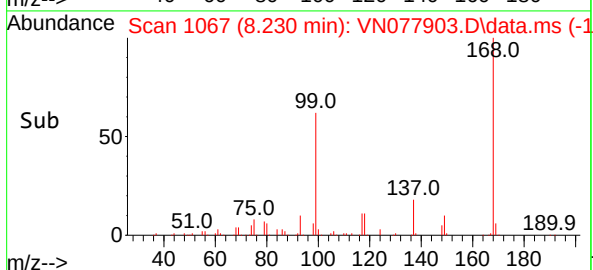
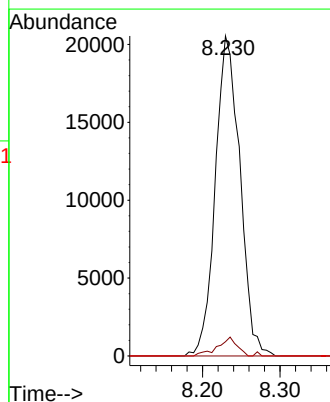
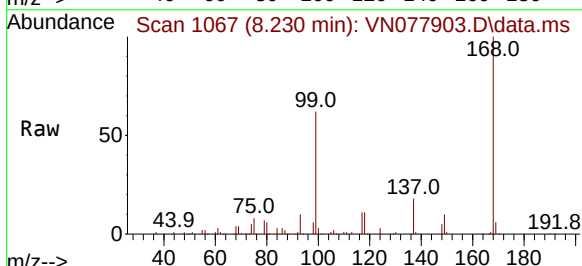
Tgt Ion: 117 Resp: 45306

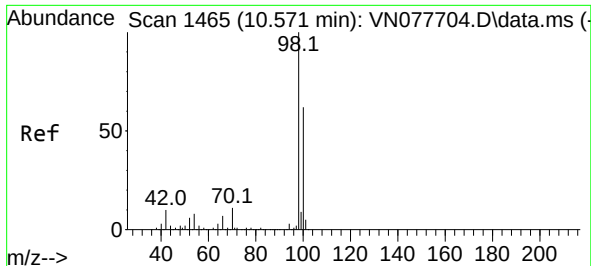
Ion Ratio Lower Upper

117 100

119 4.5 77.3 115.9#

121 0.0 23.3 34.9#

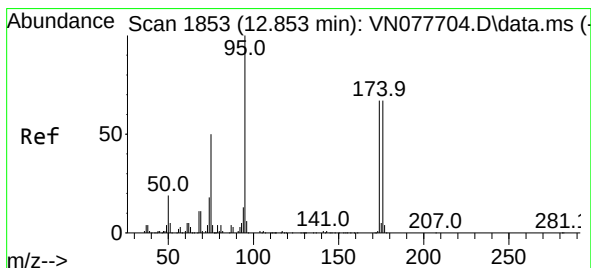
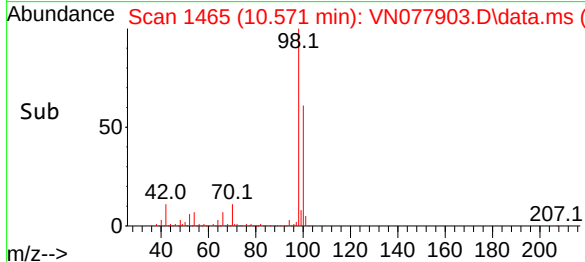
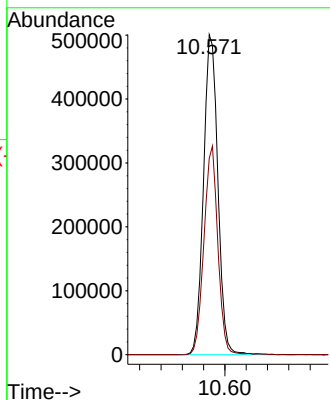
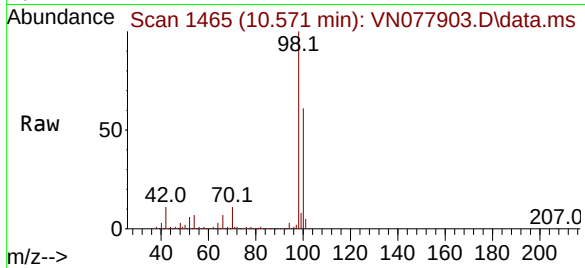




#50  
Toluene-d8  
Concen: 48.240 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

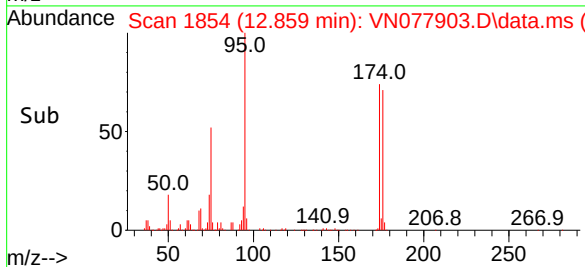
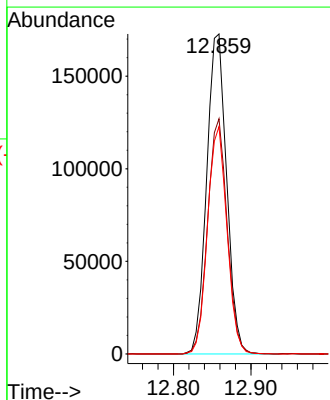
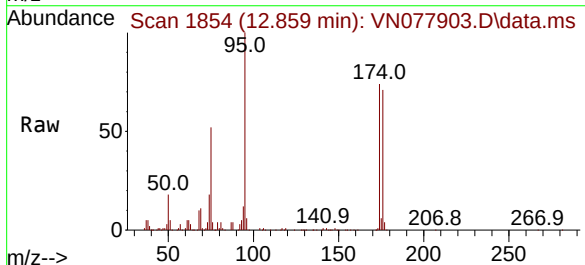
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

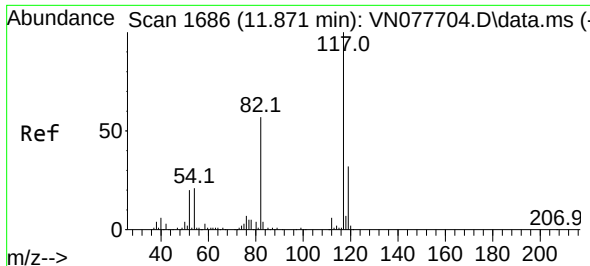
Tgt Ion: 98 Resp: 936366  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 45.018 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion: 95 Resp: 308618  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 143.8  
176 69.3 0.0 135.8

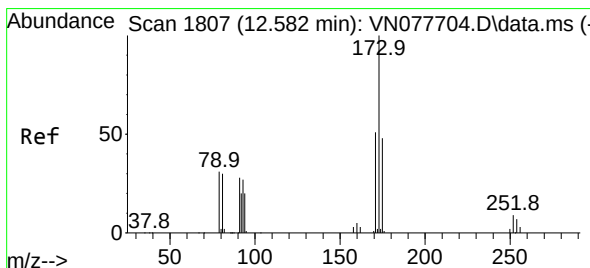
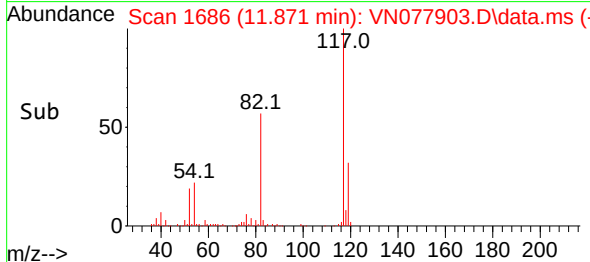
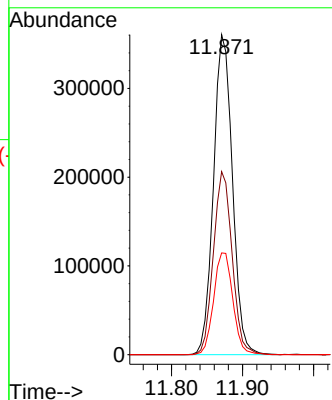
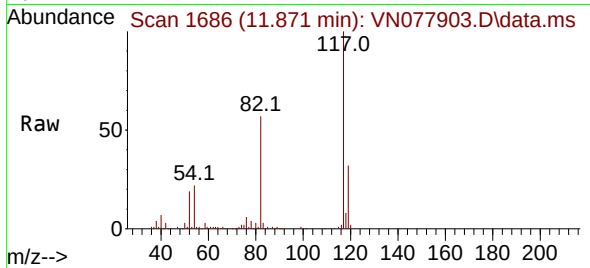




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

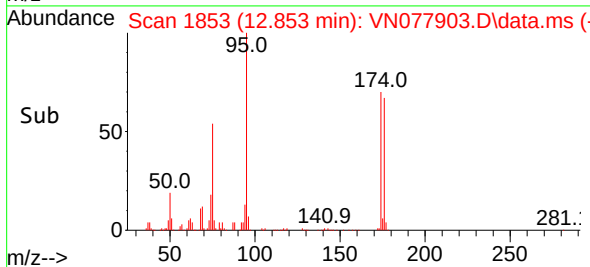
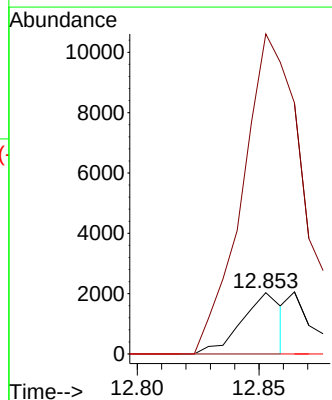
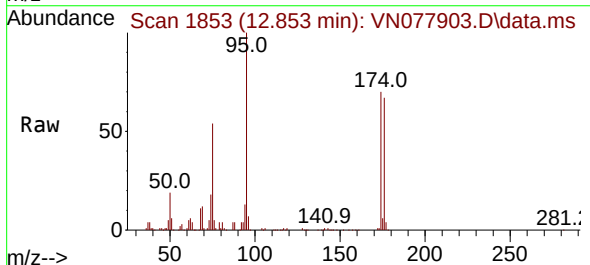
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

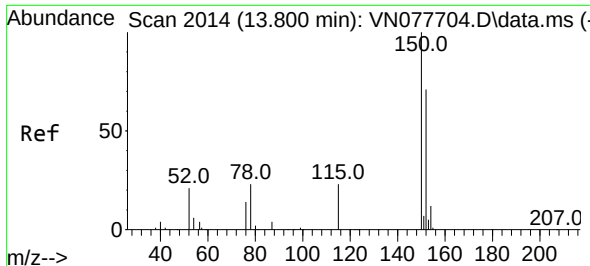
Tgt Ion:117 Resp: 667155  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.0 66.0  
119 31.8 25.6 38.4



#71  
Bromoform  
Concen: 0.697 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion:173 Resp: 2319  
Ion Ratio Lower Upper  
173 100  
175 543.8 24.3 73.0#  
254 0.0 0.0 0.0

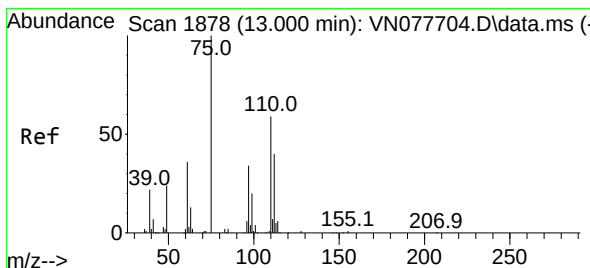
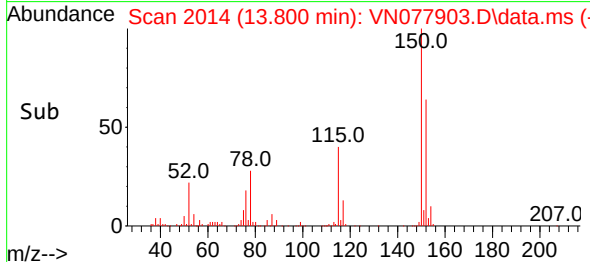
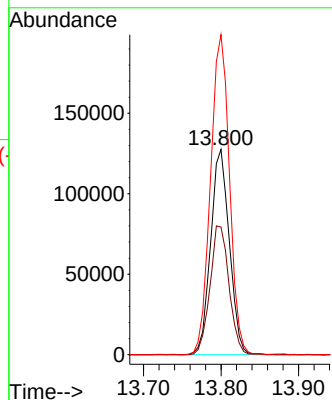
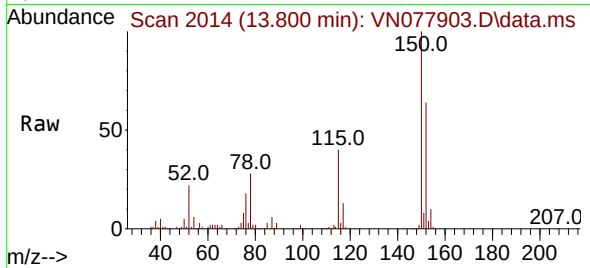




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.800 min Scan# 2014  
 Delta R.T. -0.000 min  
 Lab File: VN077903.D  
 Acq: 25 May 2023 15:38

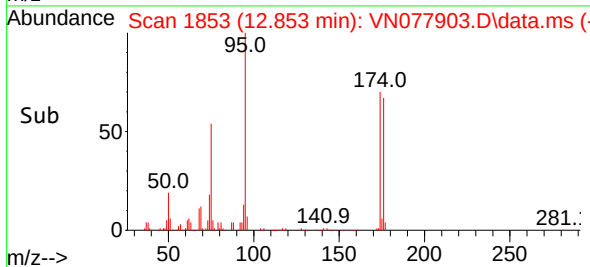
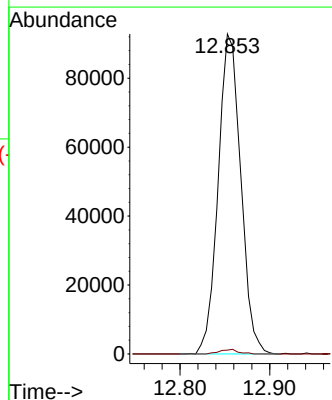
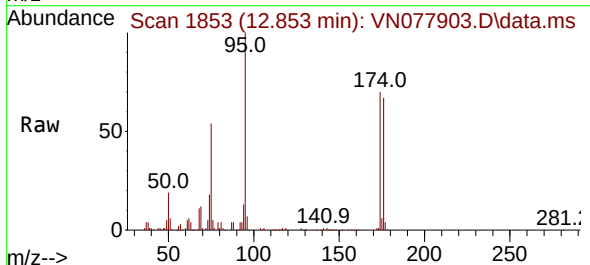
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-EB-20230524

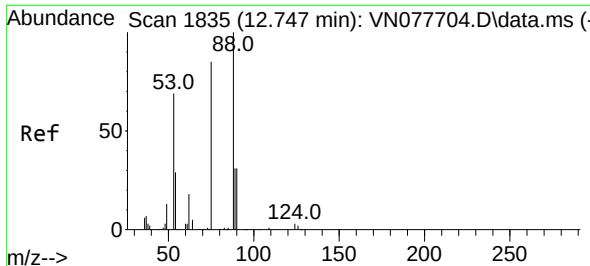
Tgt Ion:152 Resp: 213859  
 Ion Ratio Lower Upper  
 152 100  
 115 63.8 32.3 96.8  
 150 157.6 0.0 355.8



#76  
 1,2,3-Trichloropropane  
 Concen: 30.321 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.147 min  
 Lab File: VN077903.D  
 Acq: 25 May 2023 15:38

Tgt Ion: 75 Resp: 162392  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 84.5 253.5#

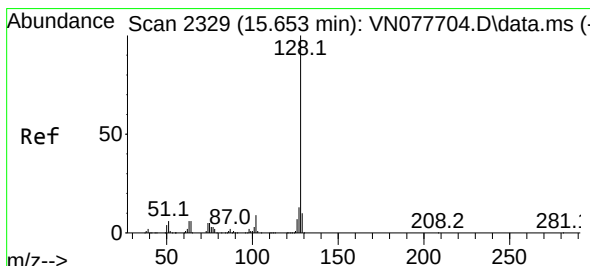
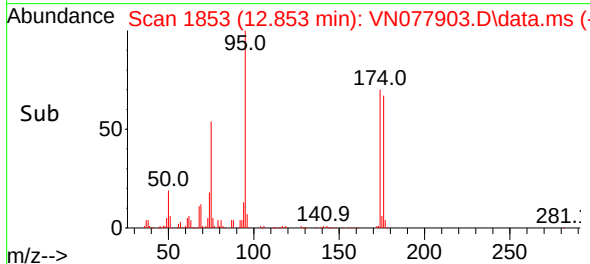
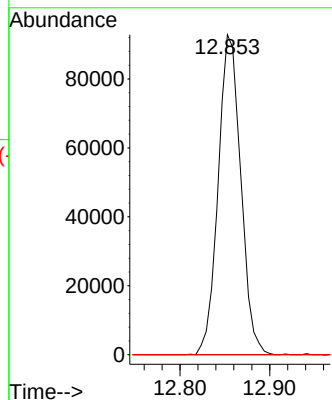
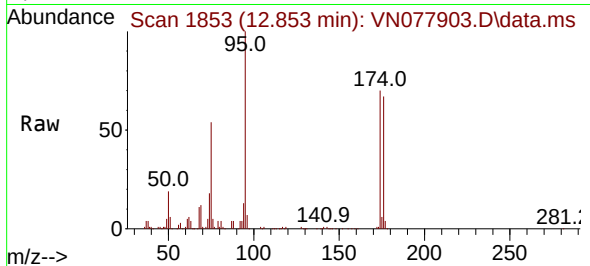




#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.921 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-EB-20230524

Tgt Ion: 75 Resp: 162392  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#



#95  
Naphthalene  
Concen: 0.245 ug/l  
RT: 15.653 min Scan# 2329  
Delta R.T. 0.006 min  
Lab File: VN077903.D  
Acq: 25 May 2023 15:38

Tgt Ion:128 Resp: 3581  
Ion Ratio Lower Upper  
128 100  
127 4.1 10.0 15.0#  
129 9.2 8.7 13.1

