

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052523\  
 Data File : VN077905.D  
 Acq On : 25 May 2023 16:26  
 Operator : JC\MD  
 Sample : 02944-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-338-340

Quant Time: May 26 04:34:14 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

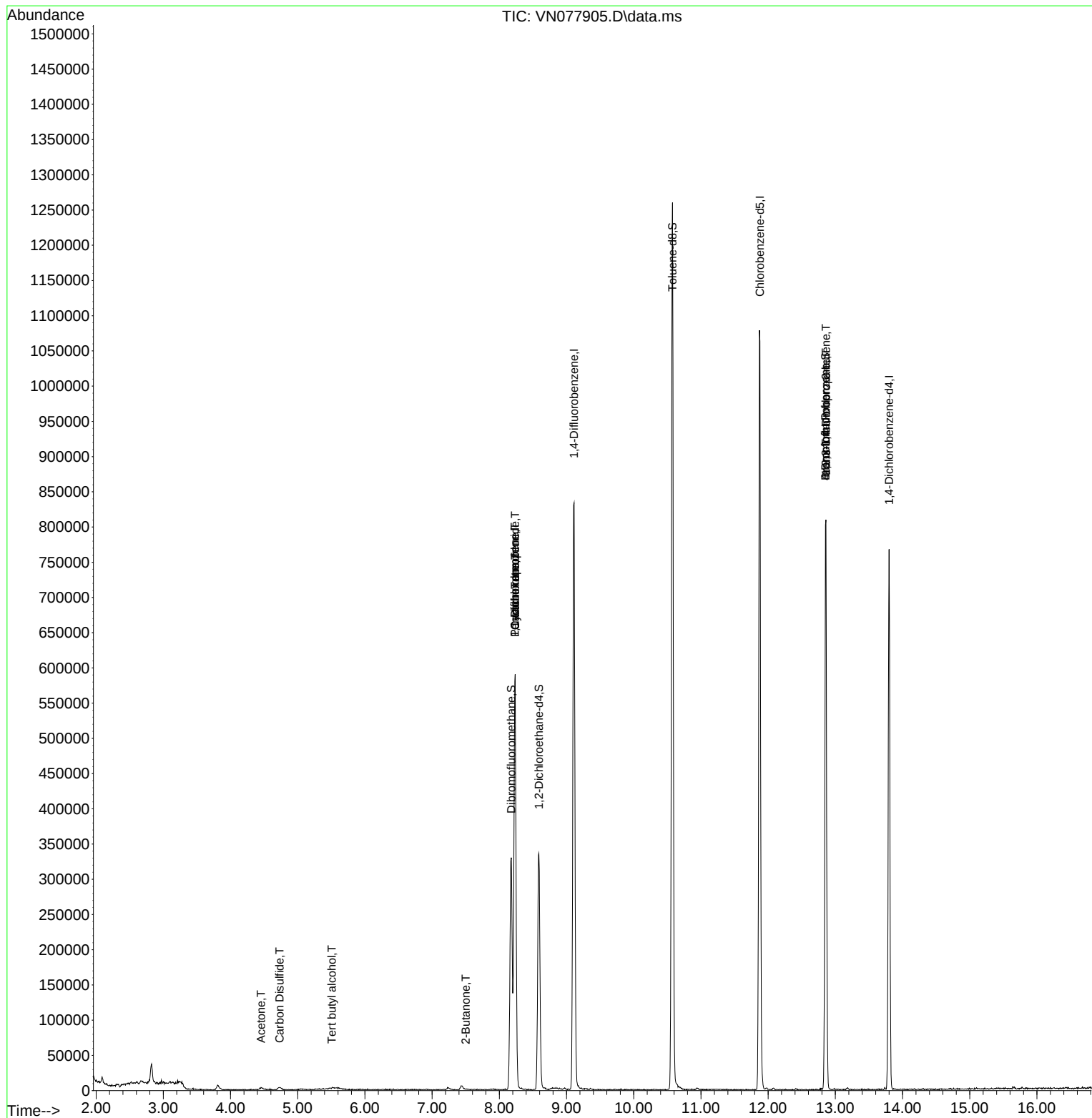
| Compound                      | R.T.           | QIon | Response   | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------------|-------|----------|
| -----                         |                |      |            |               |       |          |
| Internal Standards            |                |      |            |               |       |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 422369     | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112          | 114  | 766307     | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.877         | 117  | 656394     | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 207258     | 50.000        | ug/l  | 0.00     |
|                               |                |      |            |               |       |          |
| System Monitoring Compounds   |                |      |            |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 284373     | 44.998        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 90.000%       |       |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 244860     | 49.001        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.000%       |       |          |
| 50) Toluene-d8                | 10.577         | 98   | 925307     | 48.108        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 96.220%       |       |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 302266     | 44.497        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 89.000%       |       |          |
|                               |                |      |            |               |       |          |
| Target Compounds              |                |      | Qvalue     |               |       |          |
| 3) Chloromethane              | 2.371          | 50   | 1216       | Below Cal     |       | 89       |
| 11) Tert butyl alcohol        | 5.506          | 59   | 349        | 0.400 ug/l #  |       | 72       |
| 13) Acrolein                  | 4.183          | 56   | 101        | Below Cal #   |       | 1        |
| 16) Acetone                   | 4.453          | 43   | 4235       | 2.130 ug/l    |       | 91       |
| 17) Carbon Disulfide          | 4.730          | 76   | 4593       | 0.384 ug/l #  |       | 75       |
| 20) Methylene Chloride        | 5.283          | 84   | 276        | Below Cal #   |       | 37       |
| 25) 2-Butanone                | 7.500          | 43   | 1874       | 0.603 ug/l #  |       | 37       |
| 31) Cyclohexane               | 8.236          | 56   | 9561       | 1.113 ug/l #  |       | 52       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 35330      | 4.834 ug/l #  |       | 48       |
| 38) Carbon Tetrachloride      | 8.236          | 117  | 44108      | 5.976 ug/l #  |       | 17       |
| 71) Bromoform                 | 12.853         | 173  | 1526       | 0.466 ug/l #  |       | 28       |
| 76) 1,2,3-Trichloropropane    | 12.859         | 75   | 159156     | 30.663 ug/l # |       | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.859         | 75   | 159156     | 98.015 ug/l # |       | 15       |
| -----                         |                |      |            |               |       |          |

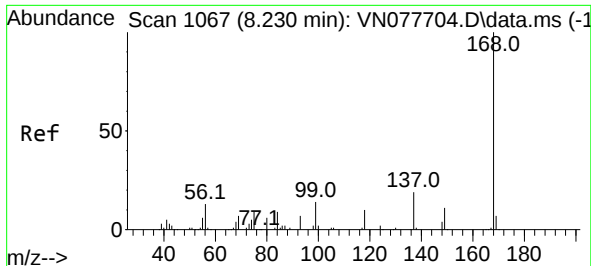
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052523\  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

Quant Time: May 26 04:34:14 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

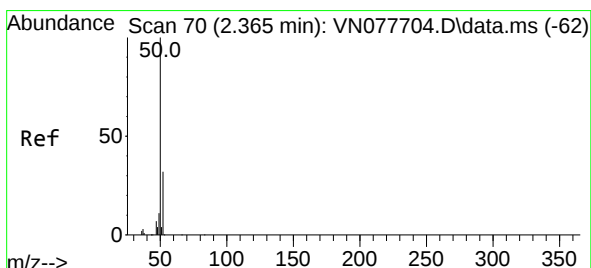
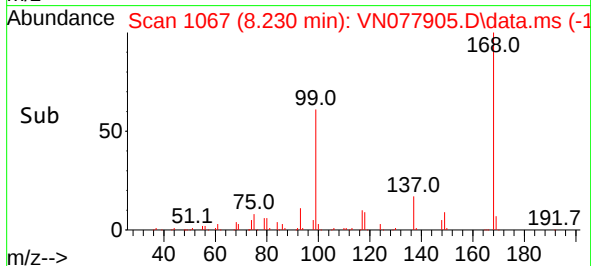
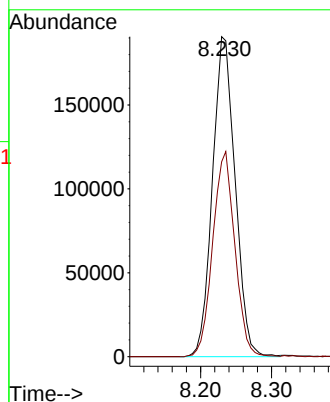
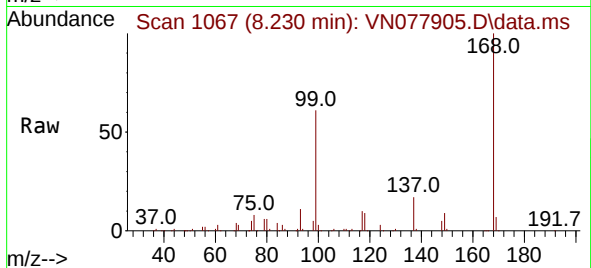




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

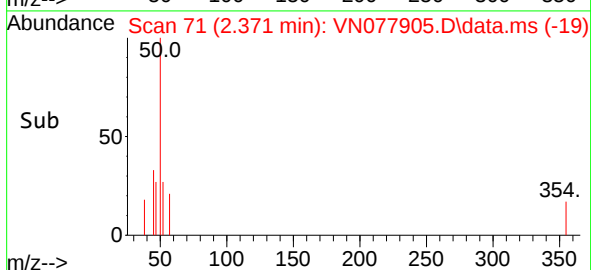
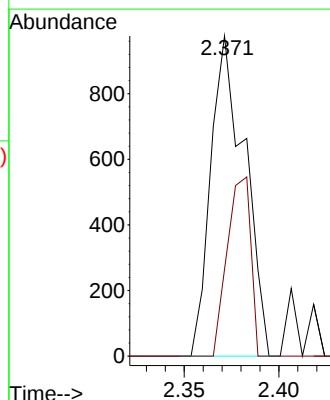
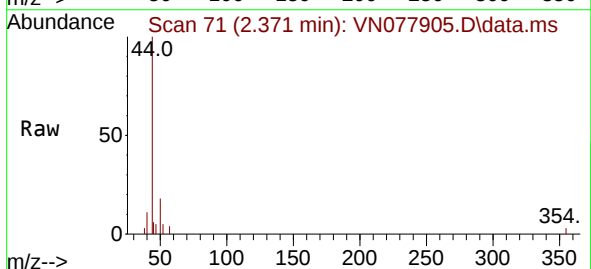
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

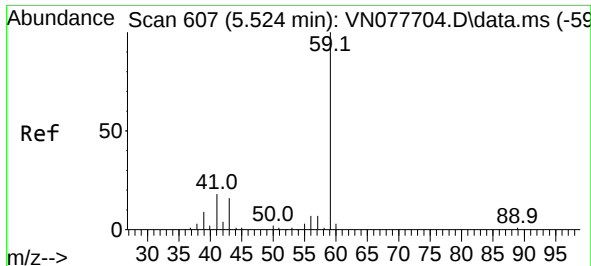
Tgt Ion:168 Resp: 422369  
Ion Ratio Lower Upper  
168 100  
99 60.9 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 50 Resp: 1216  
Ion Ratio Lower Upper  
50 100  
52 27.0 26.5 39.7

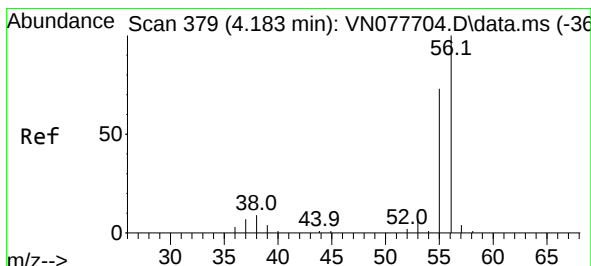
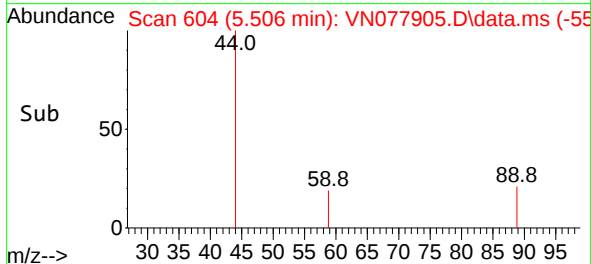
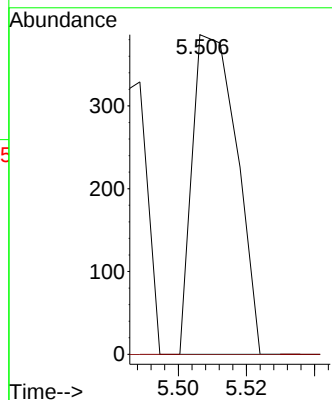
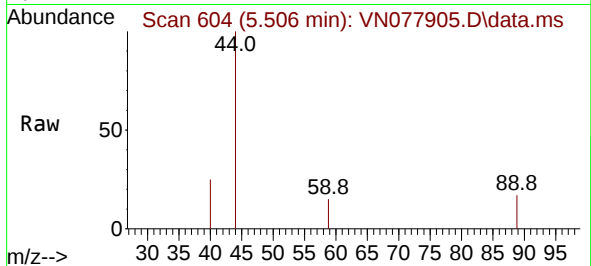




#11  
Tert butyl alcohol  
Concen: 0.400 ug/l  
RT: 5.506 min Scan# 604  
Delta R.T. -0.024 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

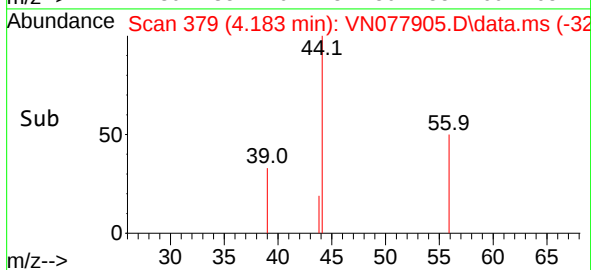
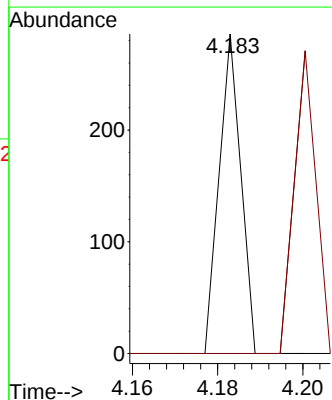
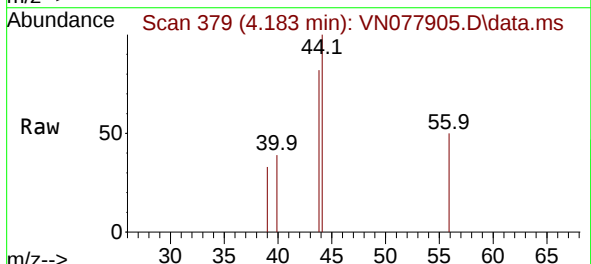
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

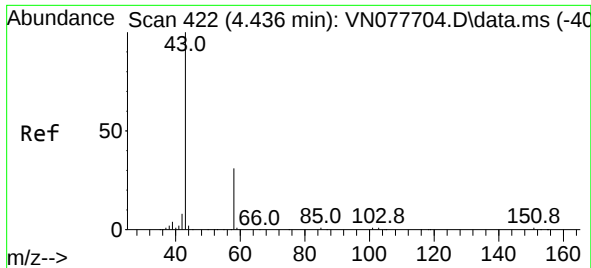
Tgt Ion: 59 Resp: 349  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: Below Cal  
RT: 4.183 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 56 Resp: 101  
Ion Ratio Lower Upper  
56 100  
55 186.1 54.5 81.7#

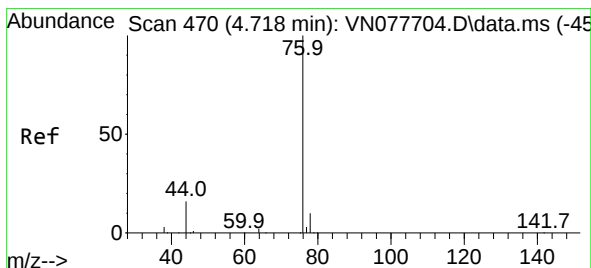
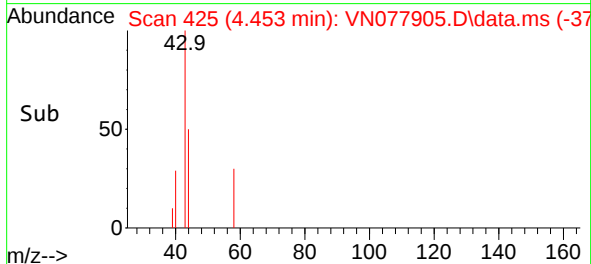
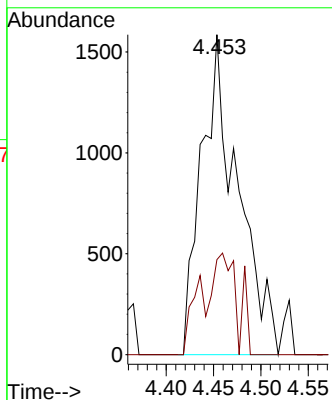
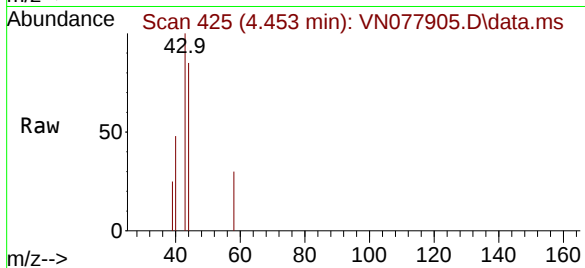




#16  
Acetone  
Concen: 2.130 ug/l  
RT: 4.453 min Scan# 41  
Delta R.T. 0.023 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

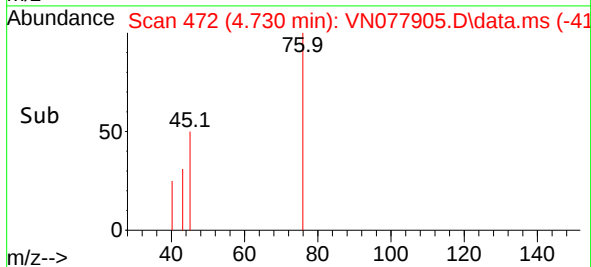
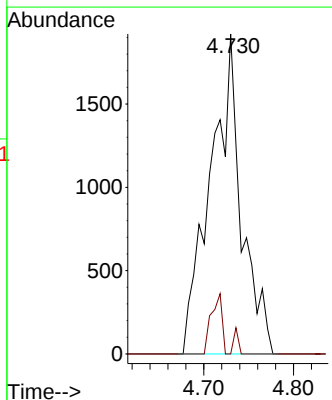
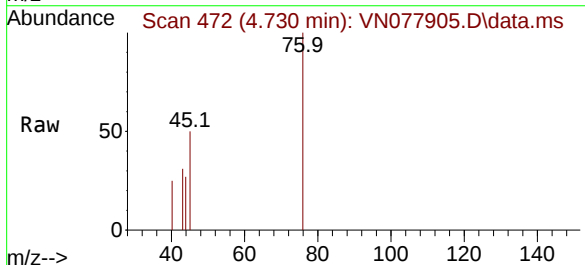
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

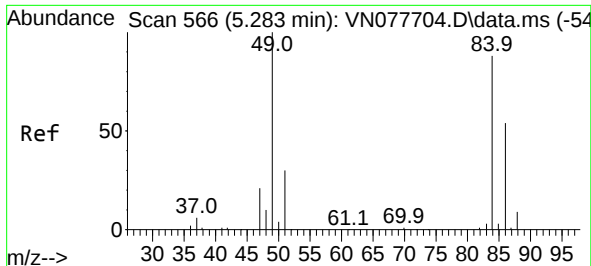
Tgt Ion: 43 Resp: 4235  
Ion Ratio Lower Upper  
43 100  
58 29.7 28.0 42.0



#17  
Carbon Disulfide  
Concen: 0.384 ug/l  
RT: 4.730 min Scan# 472  
Delta R.T. 0.018 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 76 Resp: 4593  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 5

Delta R.T. -0.000 min

Lab File: VN077905.D

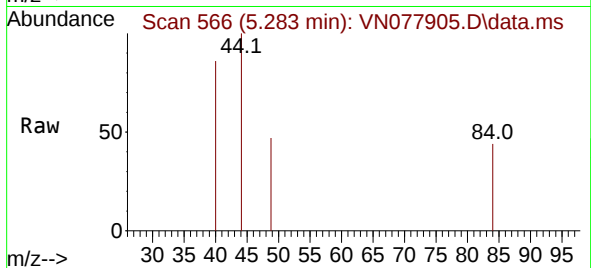
Acq: 25 May 2023 16:26

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-338-340



Tgt Ion: 84 Resp: 276

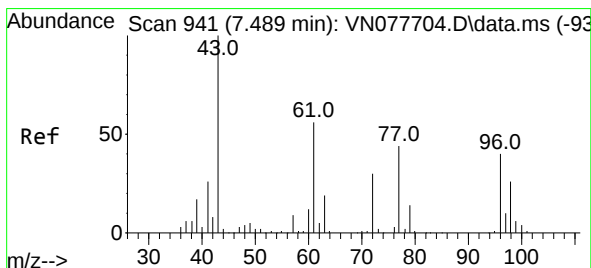
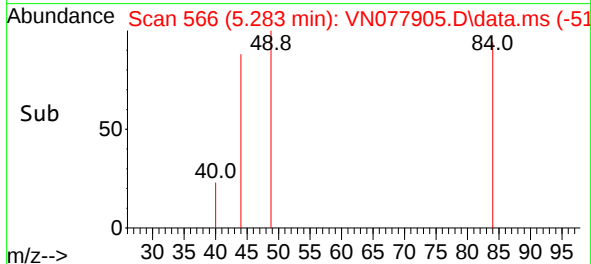
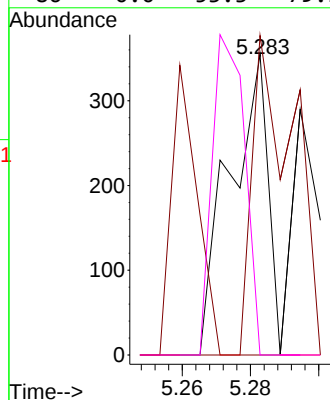
Ion Ratio Lower Upper

84 100

49 47.9 79.7 119.5#

51 0.0 25.2 37.8#

86 0.0 53.3 79.9#



#25

2-Butanone

Concen: 0.603 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.012 min

Lab File: VN077905.D

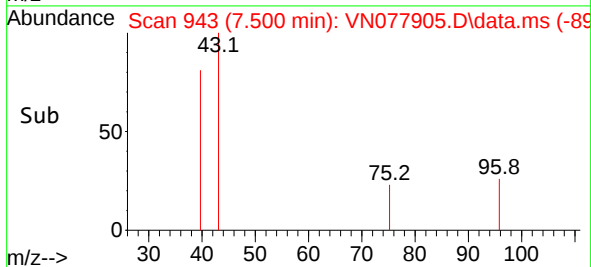
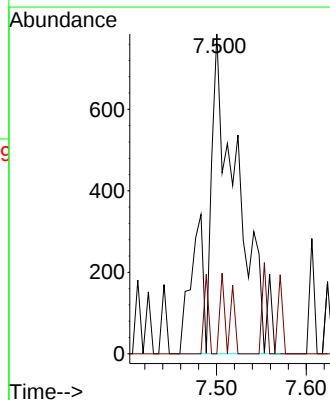
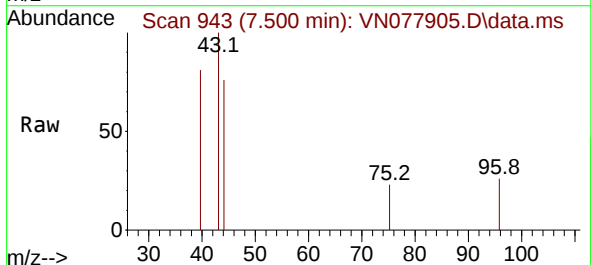
Acq: 25 May 2023 16:26

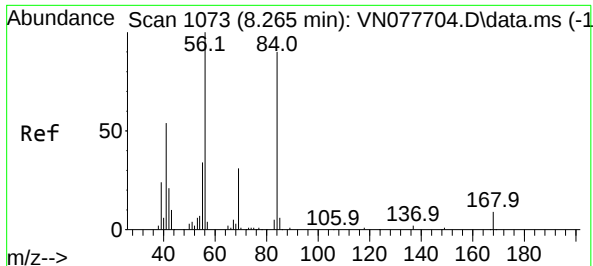
Tgt Ion: 43 Resp: 1874

Ion Ratio Lower Upper

43 100

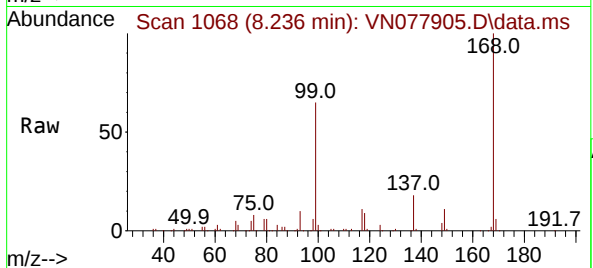
72 0.0 30.2 45.2#



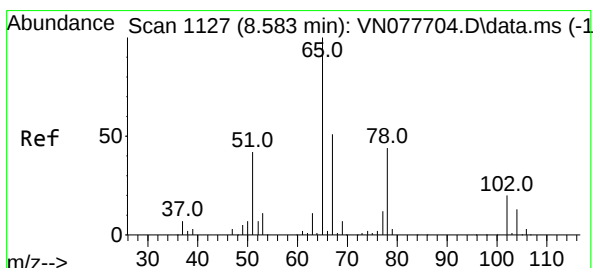
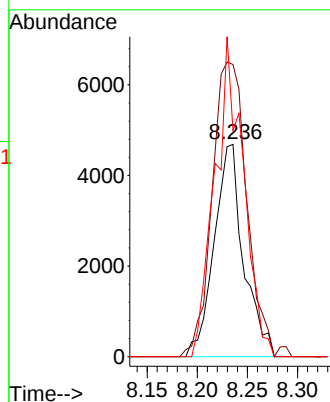
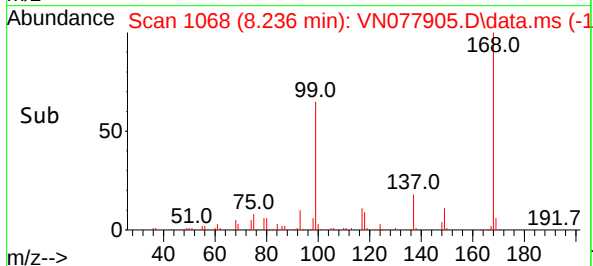


#31  
Cyclohexane  
Concen: 1.113 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.029 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

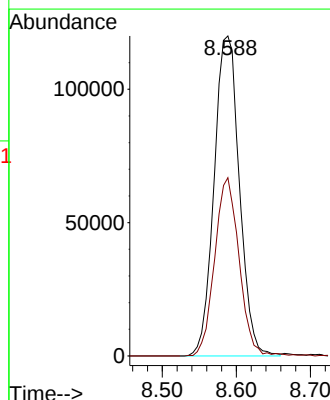
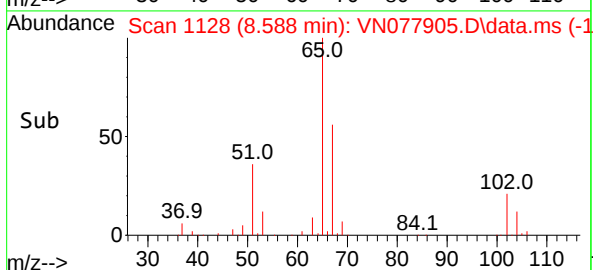
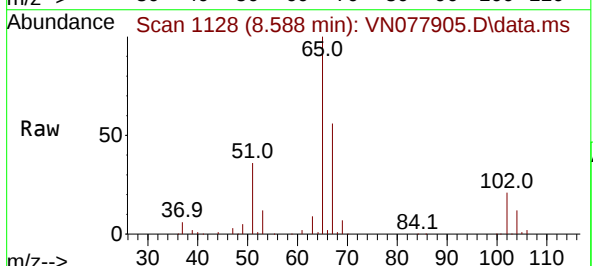


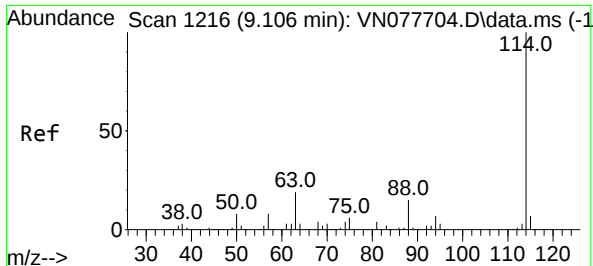
Tgt Ion: 56 Resp: 9561  
Ion Ratio Lower Upper  
56 100  
69 137.6 26.8 40.2#  
84 106.6 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 44.998 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. 0.006 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 65 Resp: 284373  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077905.D

Acq: 25 May 2023 16:26

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB-RW11-GW-338-340

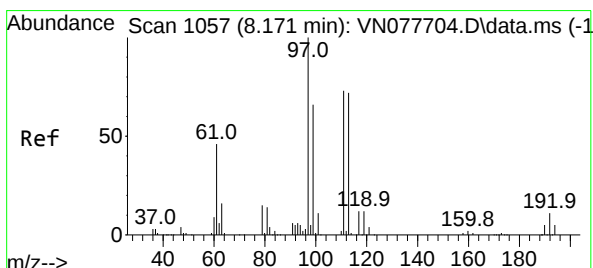
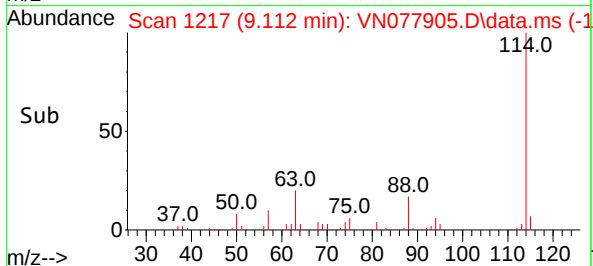
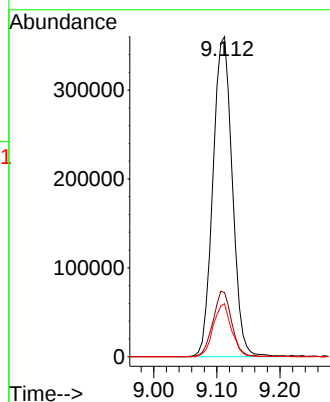
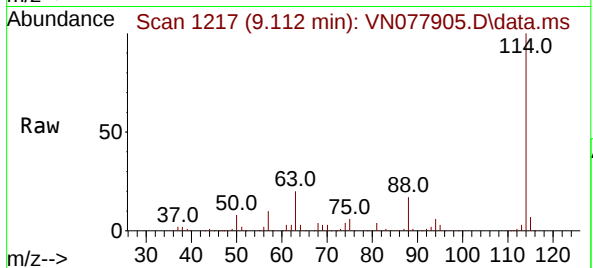
Tgt Ion:114 Resp: 766307

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 16.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.001 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN077905.D

Acq: 25 May 2023 16:26

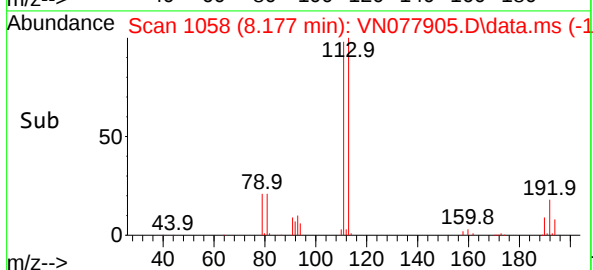
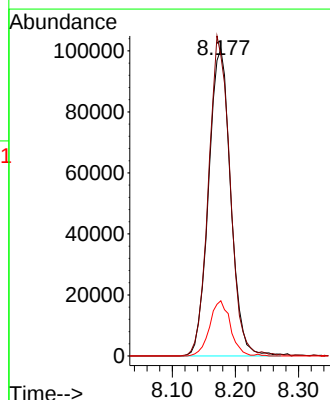
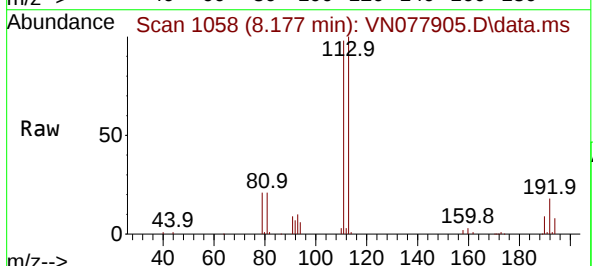
Tgt Ion:113 Resp: 244860

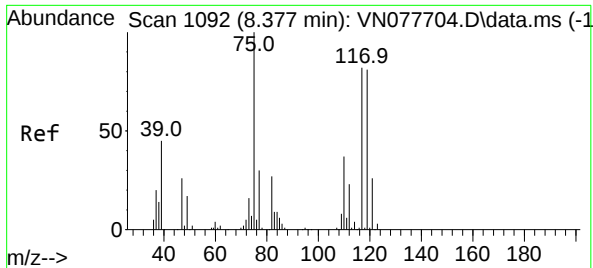
Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

192 16.9 12.7 19.1

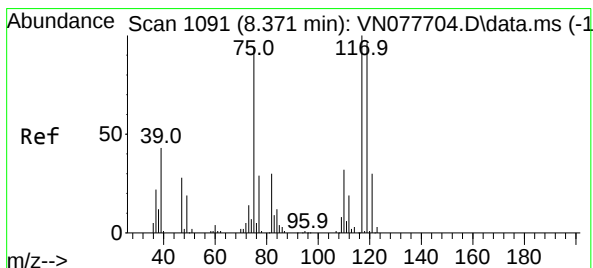
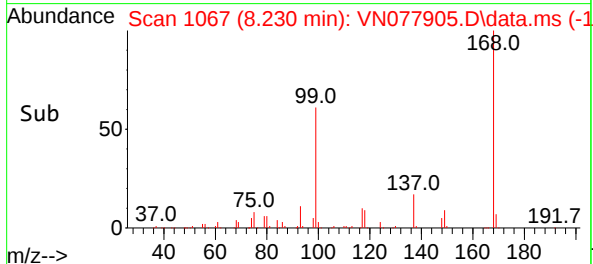
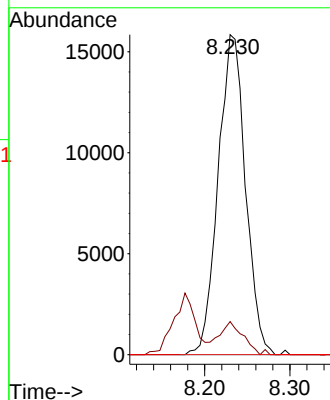
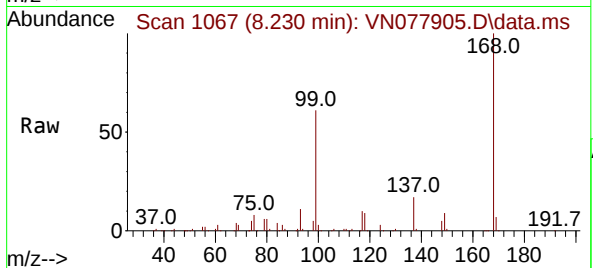




#36  
1,1-Dichloropropene  
Concen: 4.834 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.147 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

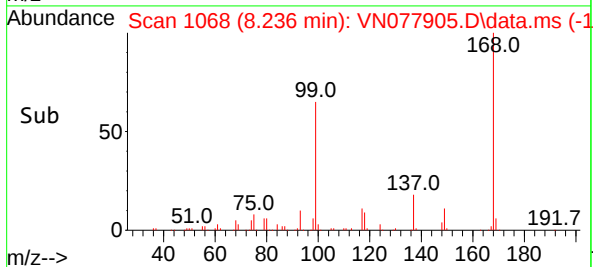
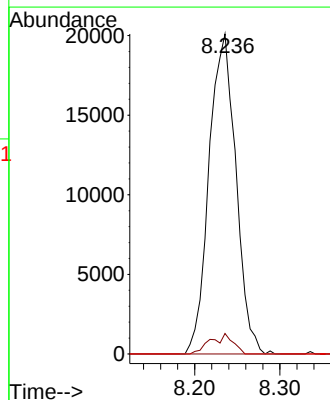
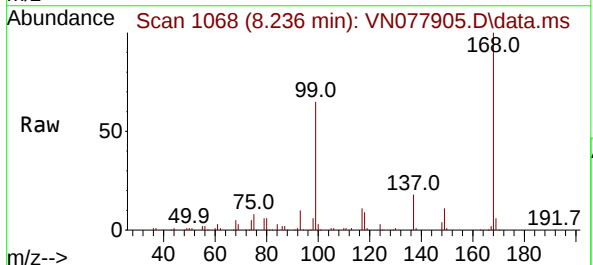
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

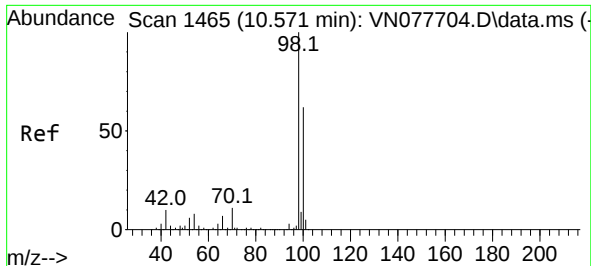
Tgt Ion: 75 Resp: 35330  
Ion Ratio Lower Upper  
75 100  
110 9.0 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.976 ug/l  
RT: 8.236 min Scan# 1068  
Delta R.T. -0.135 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 117 Resp: 44108  
Ion Ratio Lower Upper  
117 100  
119 6.4 77.3 115.9#  
121 0.0 23.3 34.9#

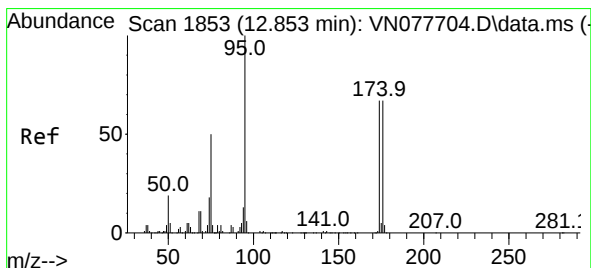
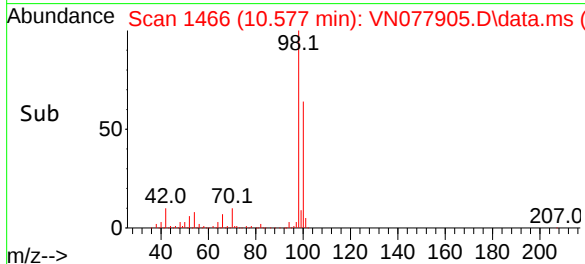
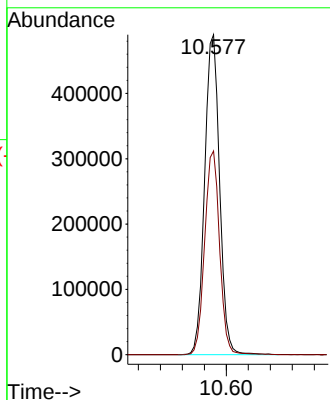
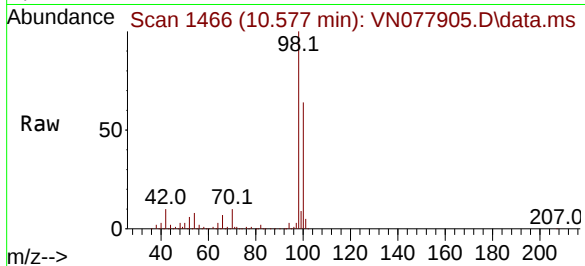




#50  
Toluene-d8  
Concen: 48.108 ug/l  
RT: 10.577 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

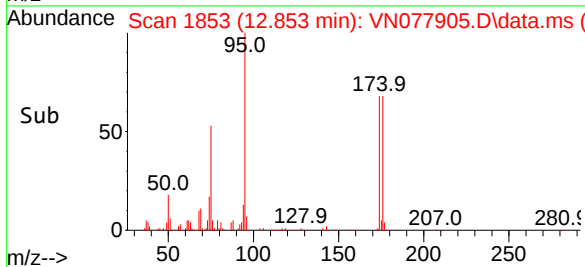
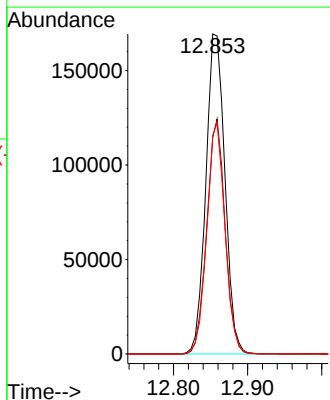
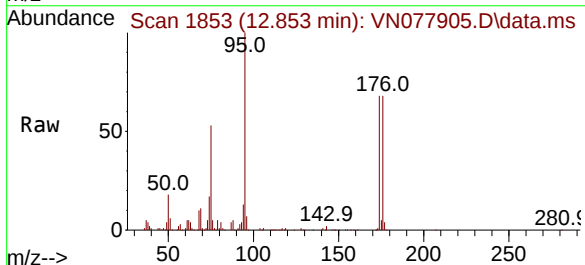
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

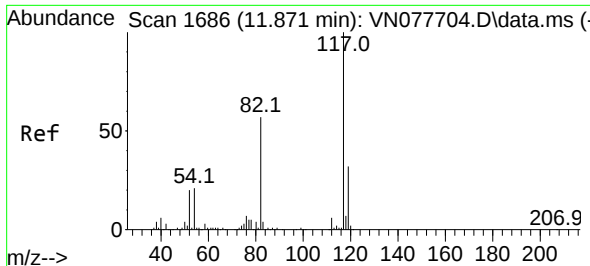
Tgt Ion: 98 Resp: 925307  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 44.497 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion: 95 Resp: 302266  
Ion Ratio Lower Upper  
95 100  
174 70.3 0.0 143.8  
176 68.7 0.0 135.8

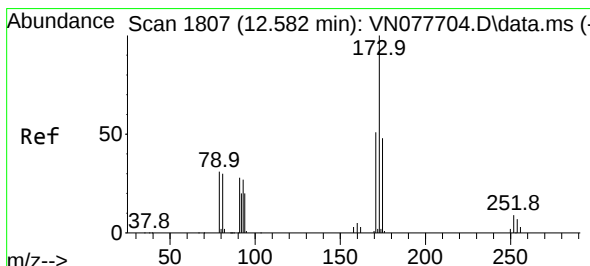
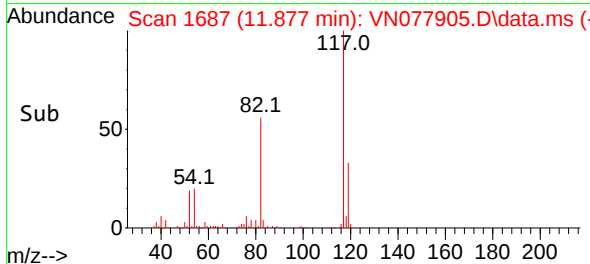
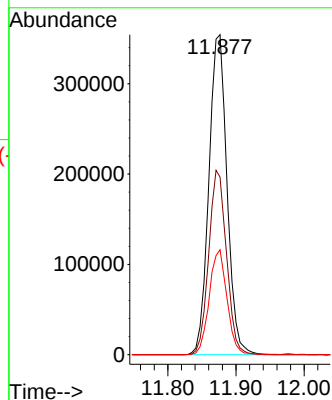
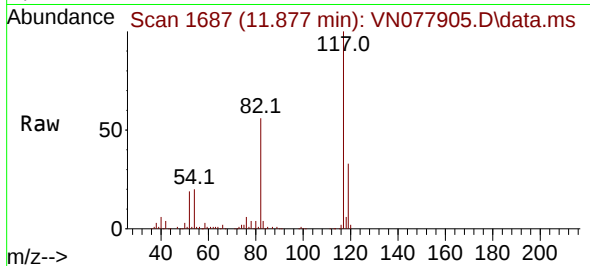




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.877 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

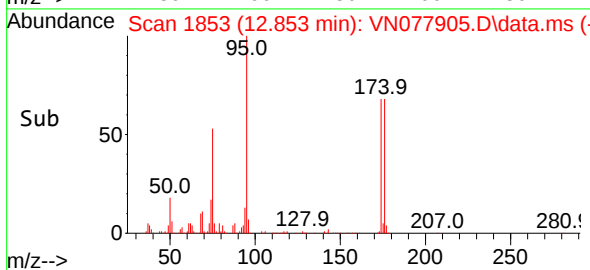
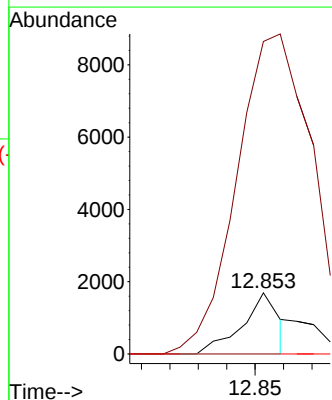
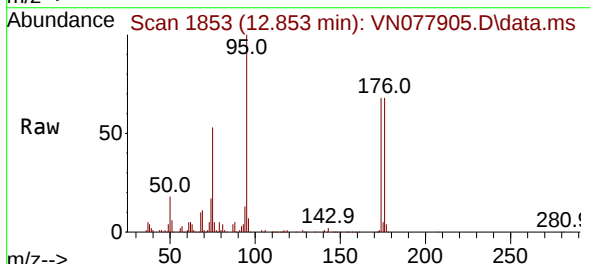
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

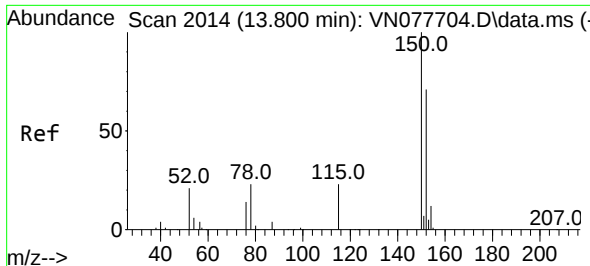
Tgt Ion:117 Resp: 656394  
Ion Ratio Lower Upper  
117 100  
82 55.5 44.0 66.0  
119 32.8 25.6 38.4



#71  
Bromoform  
Concen: 0.466 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.271 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

Tgt Ion:173 Resp: 1526  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.3 73.0#  
254 0.0 0.0 0.0

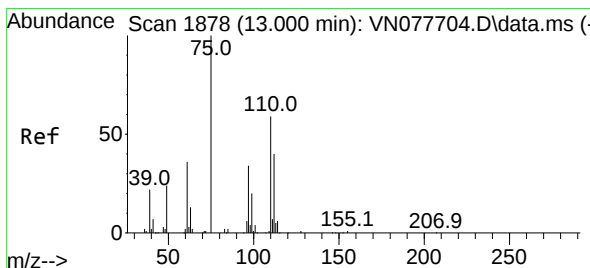
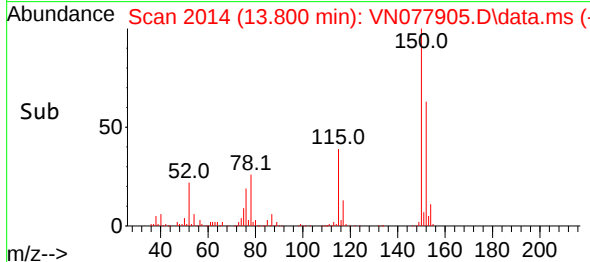
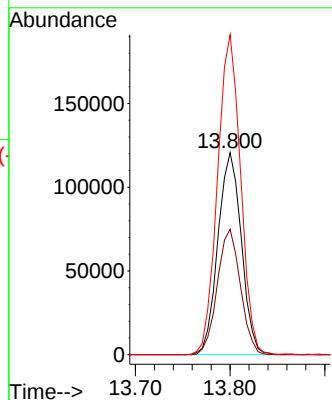
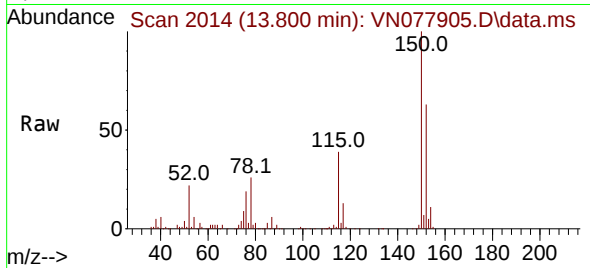




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

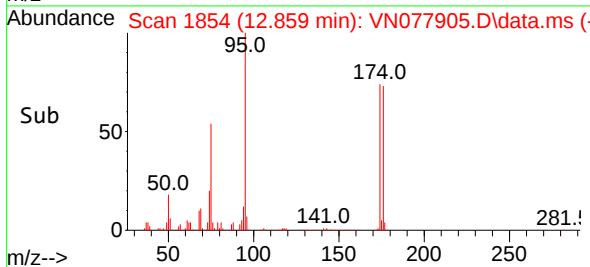
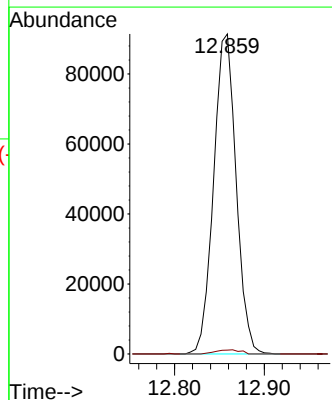
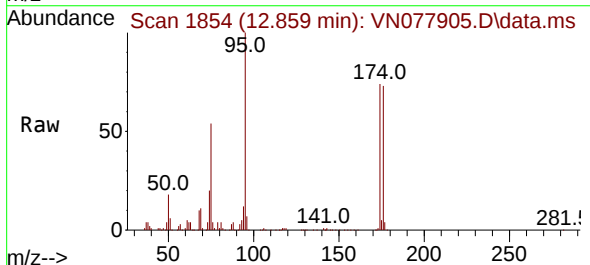
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB-RW11-GW-338-340

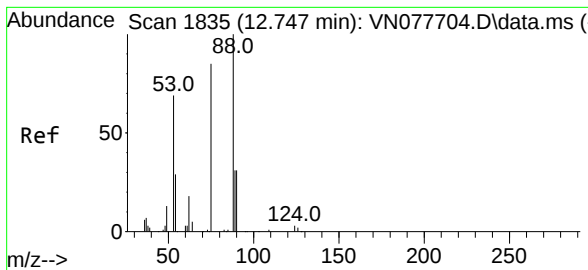
Tgt Ion:152 Resp: 207258  
Ion Ratio Lower Upper  
152 100  
115 61.2 32.3 96.8  
150 156.1 0.0 355.8



#76  
1,2,3-Trichloropropane  
Concen: 30.663 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. -0.141 min  
Lab File: VN077905.D  
Acq: 25 May 2023 16:26

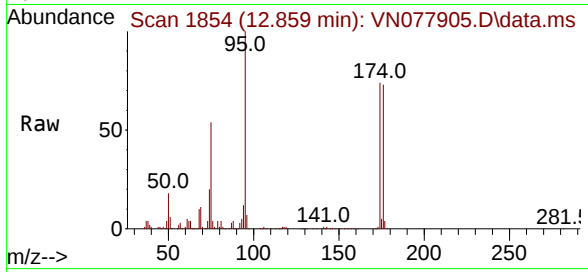
Tgt Ion: 75 Resp: 159156  
Ion Ratio Lower Upper  
75 100  
77 1.4 84.5 253.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 98.015 ug/l  
 RT: 12.859 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN077905.D  
 Acq: 25 May 2023 16:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB-RW11-GW-338-340



Tgt Ion: 75 Resp: 159156  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.4 101.2#  
 89 0.1 38.8 58.2#

