

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX092823\  
 Data File : VX037955.D  
 Acq On : 28 Sep 2023 17:21  
 Operator : JC/MD  
 Sample : 04662-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

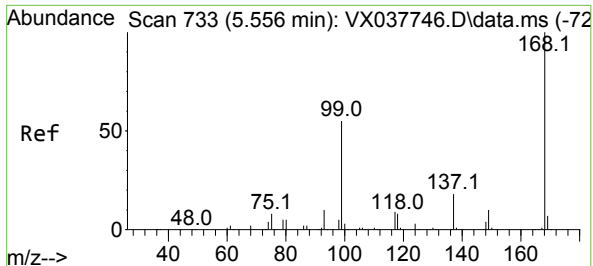
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-RW10A-GW-520-522

Quant Time: Sep 29 05:48:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091523W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 16 04:55:44 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 272941     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 457514     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 438479     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 225504     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 163501     | 45.594   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 91.180%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 144534     | 47.214   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.420%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 546023     | 48.004   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 96.000%  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 209249     | 50.626   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.260% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 11) Tert butyl alcohol        | 2.965          | 59   | 248        | 0.322    | ug/l # | 78       |
| 13) Acrolein                  | 2.240          | 56   | 288        | 0.379    | ug/l # | 81       |
| 15) Acrylonitrile             | 3.075          | 53   | 381        | 0.223    | ug/l # | 79       |
| 16) Acetone                   | 2.380          | 43   | 5319       | 3.083    | ug/l   | 91       |
| 17) Carbon Disulfide          | 2.514          | 76   | 2563       | 0.384    | ug/l # | 94       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 19926      | 4.725    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 27984      | 6.342    | ug/l # | 14       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 105947     | 20.313   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 105947     | 65.070   | ug/l # | 5        |
| 87) 1,3-Dichlorobenzene       | 11.976         | 146  | 1725       | 0.226    | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 11.976         | 146  | 1725       | 0.221    | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.335         | 91   | 3236       | 0.259    | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 2109       | 0.459    | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 935        | 0.436    | ug/l   | 96       |
| 95) Naphthalene               | 13.774         | 128  | 5363       | 0.345    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 1830       | 0.387    | ug/l   | 97       |
| -----                         |                |      |            |          |        |          |

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

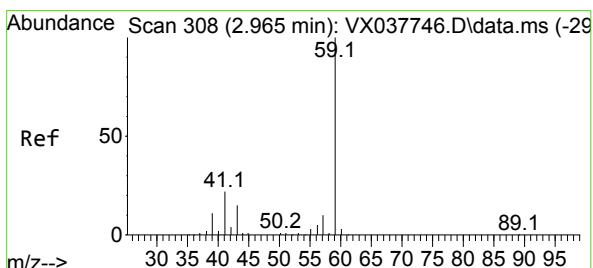
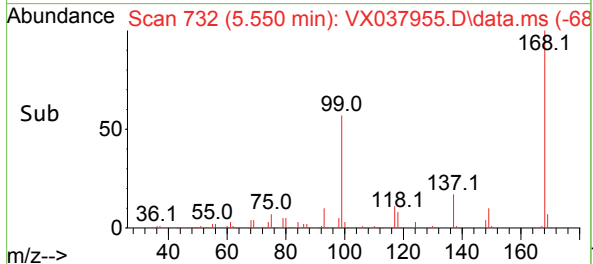
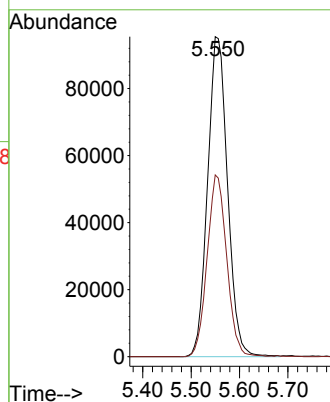
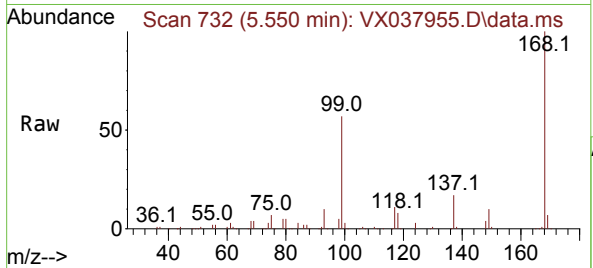




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

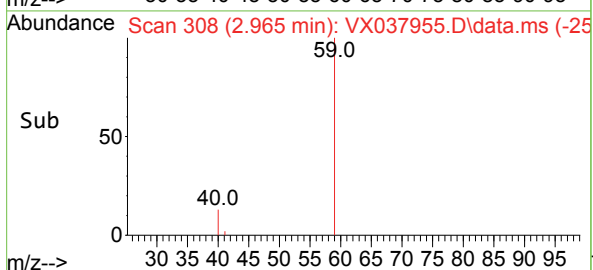
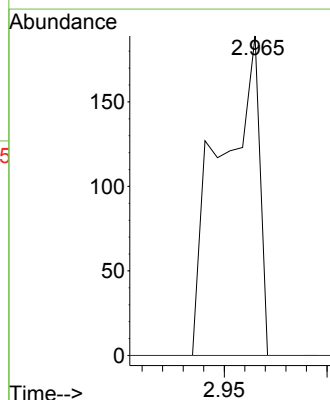
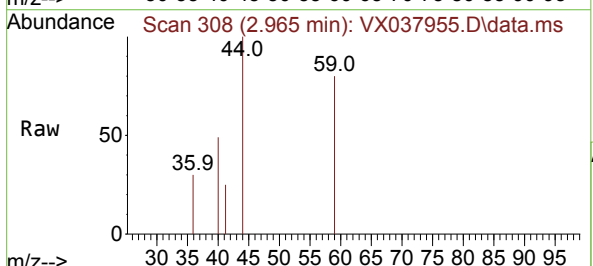
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

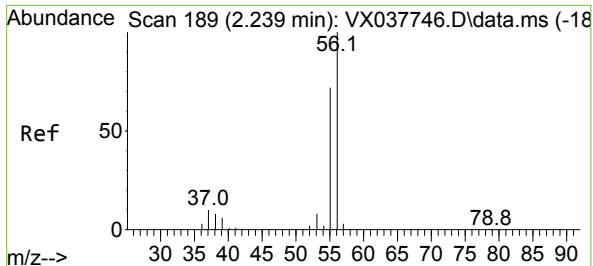
Tgt Ion:168 Resp: 272941  
Ion Ratio Lower Upper  
168 100  
99 56.8 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 0.322 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 59 Resp: 248  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

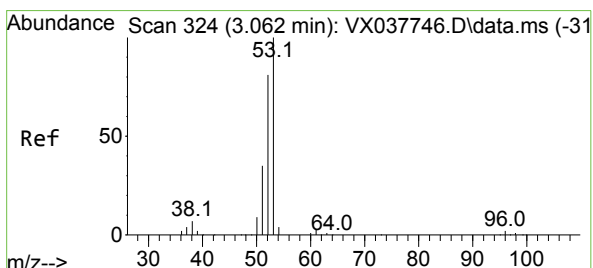
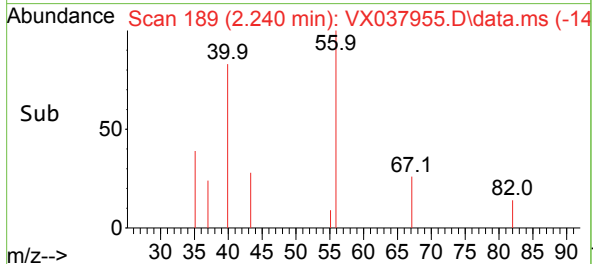
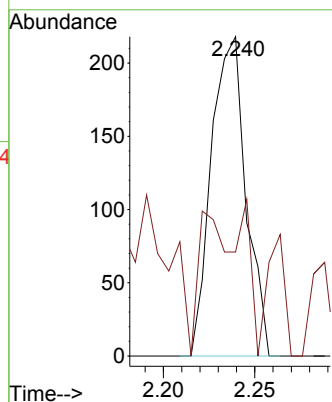
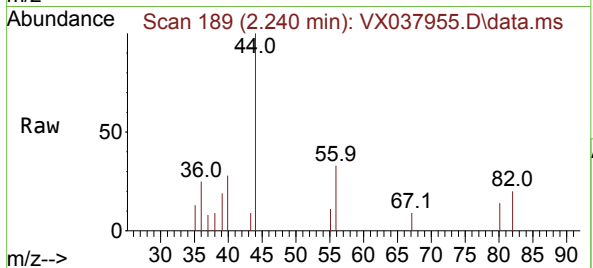




#13  
Acrolein  
Concen: 0.379 ug/l  
RT: 2.240 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

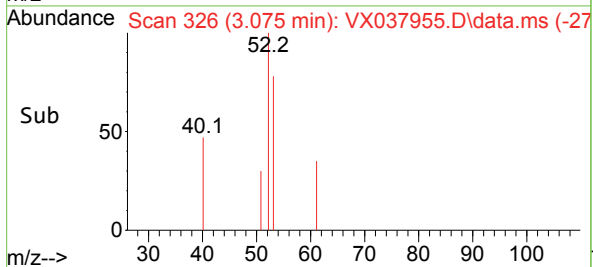
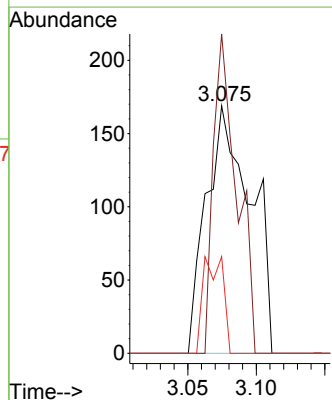
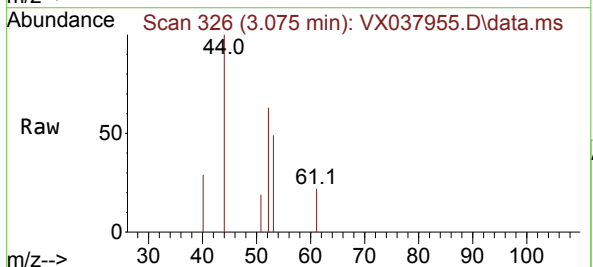
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

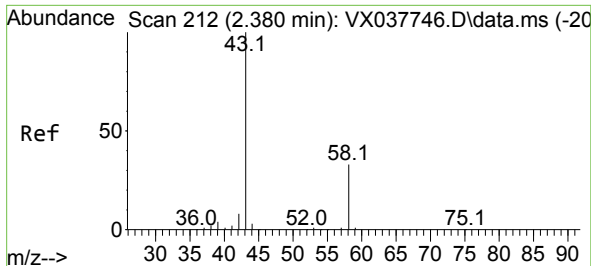
Tgt Ion: 56 Resp: 288  
Ion Ratio Lower Upper  
56 100  
55 55.9 57.1 85.7#



#15  
Acrylonitrile  
Concen: 0.223 ug/l  
RT: 3.075 min Scan# 326  
Delta R.T. 0.006 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 53 Resp: 381  
Ion Ratio Lower Upper  
53 100  
52 68.0 66.0 99.0  
51 17.6 29.8 44.6#

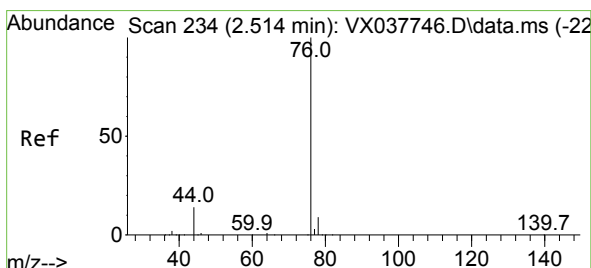
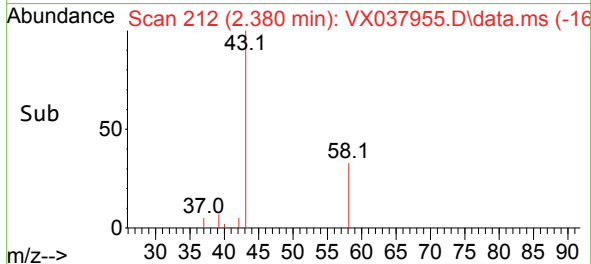
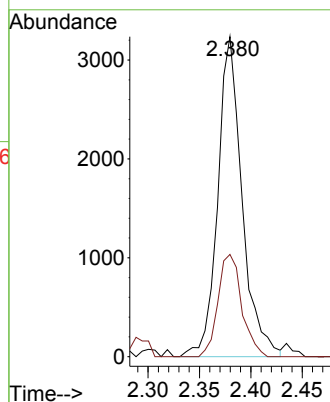
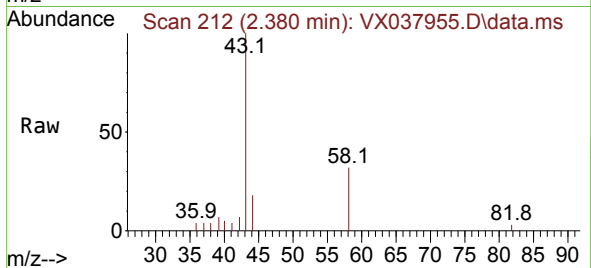




#16  
Acetone  
Concen: 3.083 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

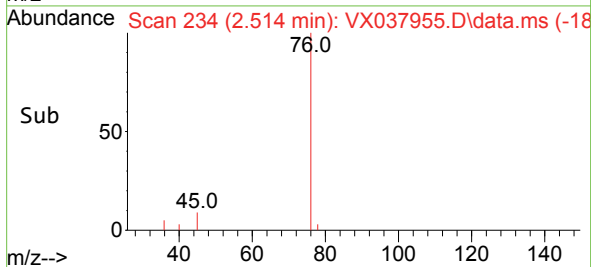
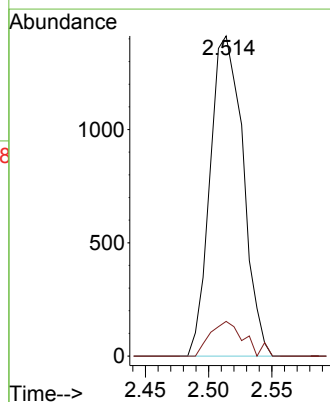
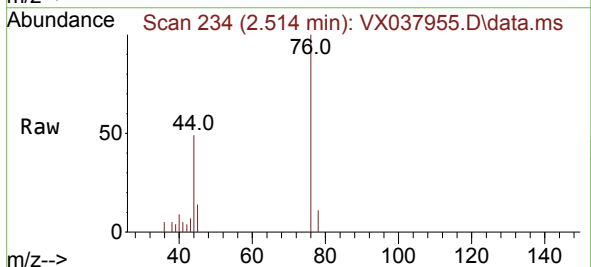
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

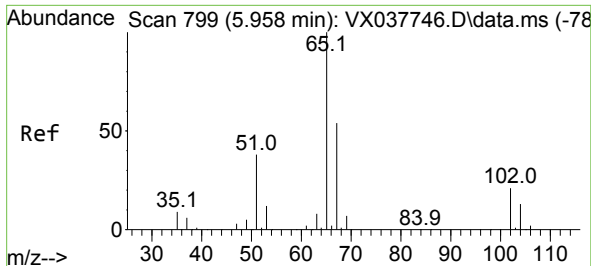
Tgt Ion: 43 Resp: 5319  
Ion Ratio Lower Upper  
43 100  
58 32.0 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.384 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 76 Resp: 2563  
Ion Ratio Lower Upper  
76 100  
78 10.8 7.0 10.6#





#33

1,2-Dichloroethane-d4

Concen: 45.594 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

Instrument :

MSVOA\_X

ClientSampleId :

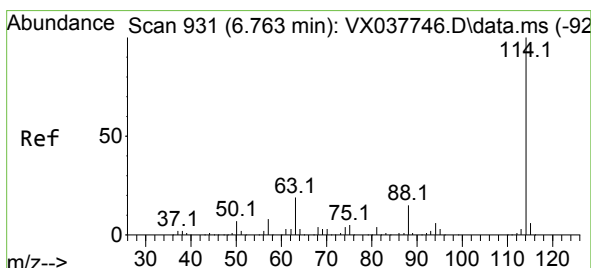
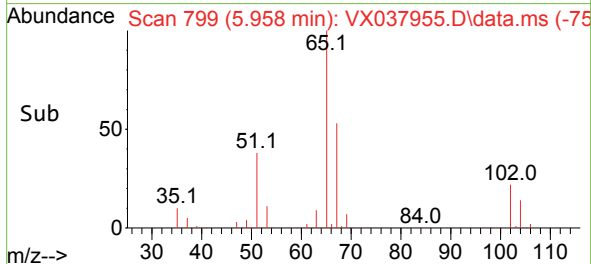
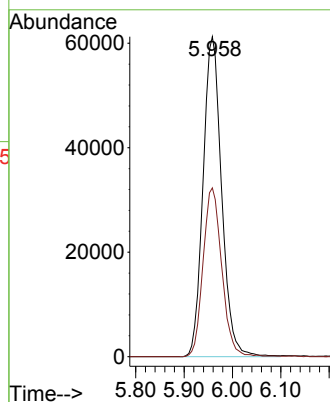
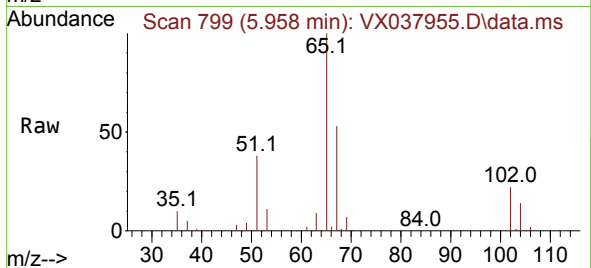
BP-VPB-RW10A-GW-520-522

Tgt Ion: 65 Resp: 163501

Ion Ratio Lower Upper

65 100

67 53.2 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

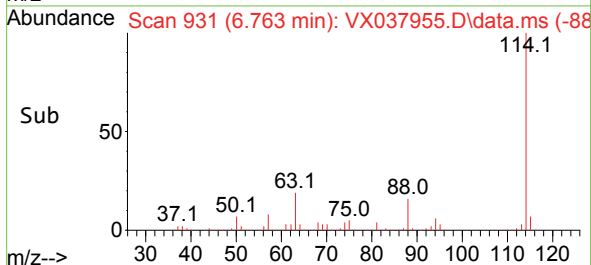
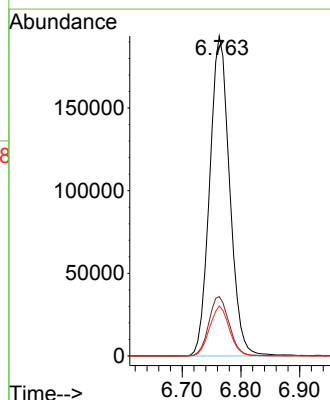
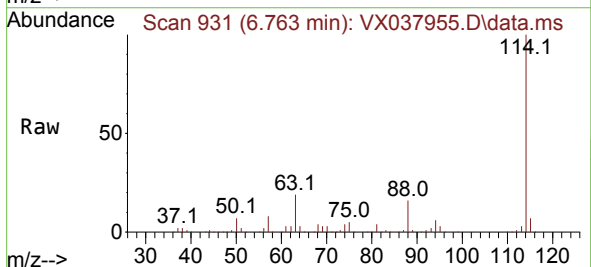
Tgt Ion: 114 Resp: 457514

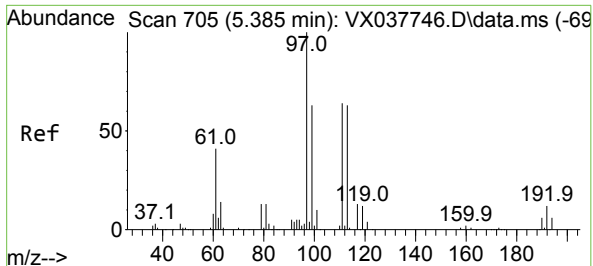
Ion Ratio Lower Upper

114 100

63 18.6 0.0 45.0

88 15.6 0.0 36.6





#35

Dibromofluoromethane

Concen: 47.214 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX037955.D

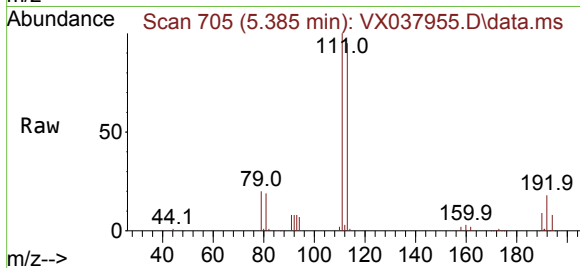
Acq: 28 Sep 2023 17:21

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW10A-GW-520-522



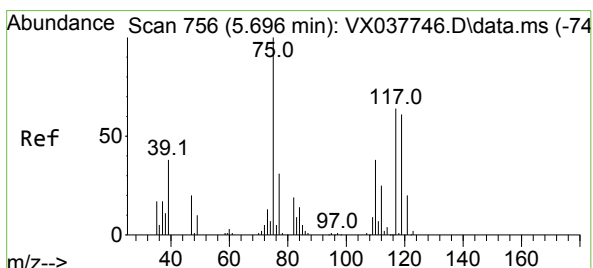
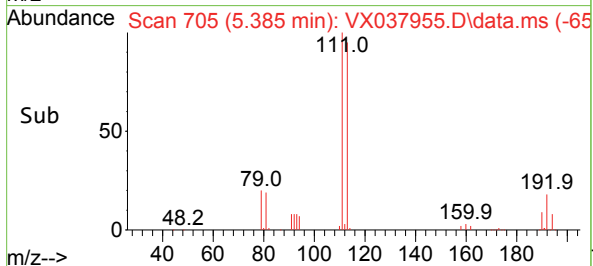
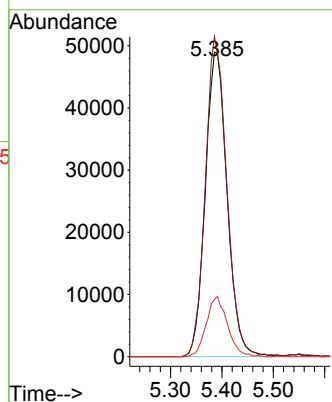
Tgt Ion:113 Resp: 144534

Ion Ratio Lower Upper

113 100

111 103.3 82.9 124.3

192 19.1 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.725 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

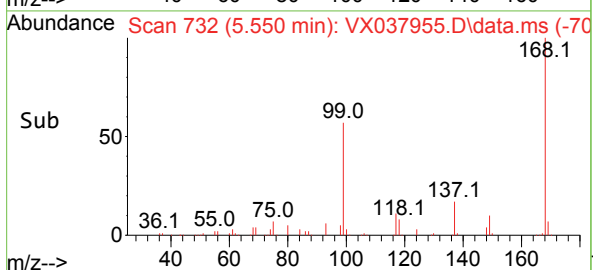
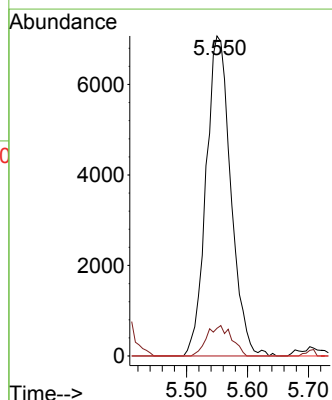
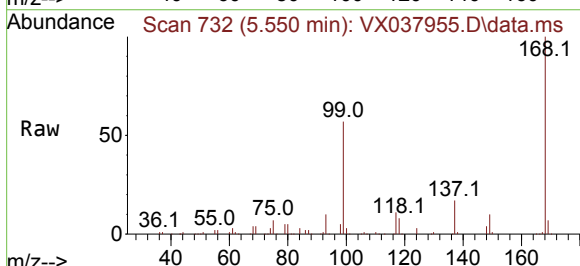
Tgt Ion: 75 Resp: 19926

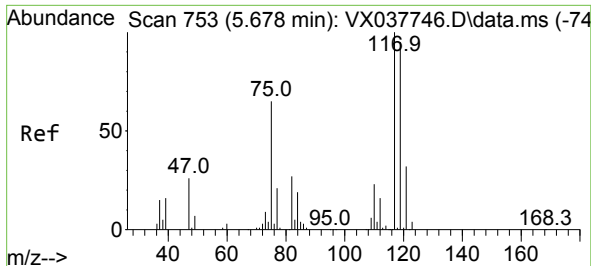
Ion Ratio Lower Upper

75 100

110 9.5 17.0 50.9#

77 0.0 24.7 37.1#

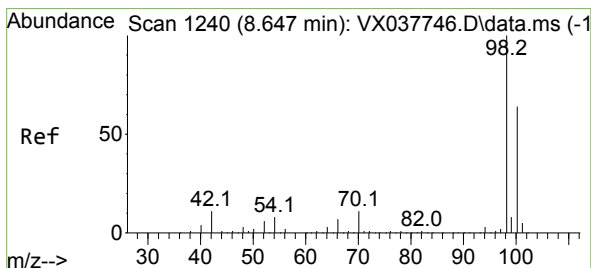
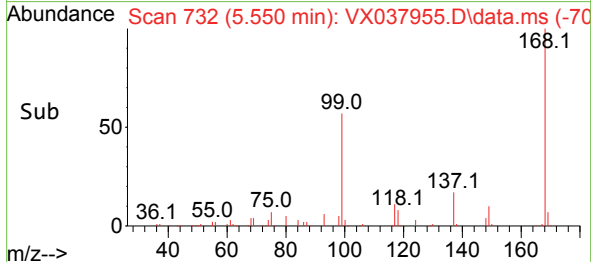
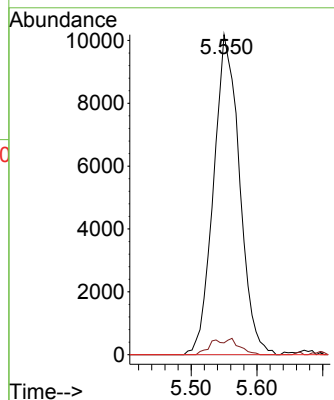
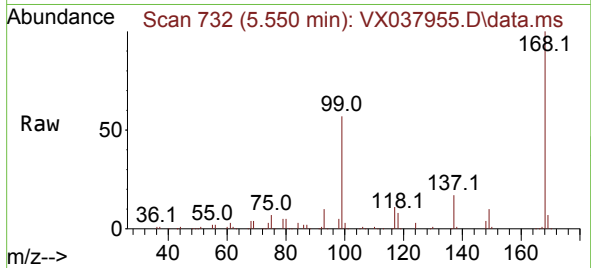




#38  
Carbon Tetrachloride  
Concen: 6.342 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

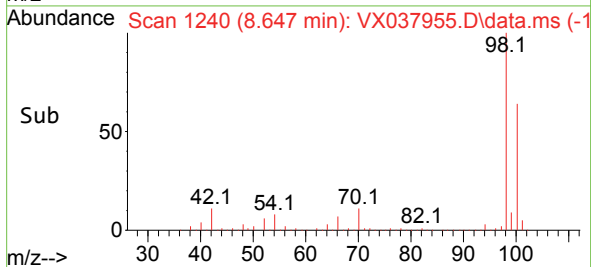
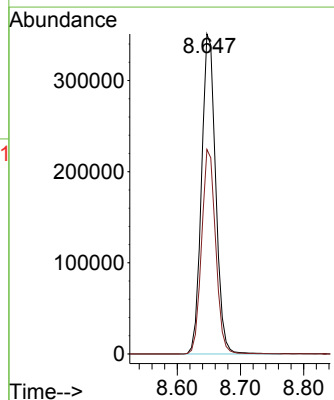
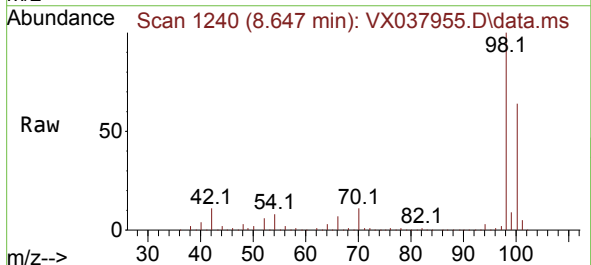
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

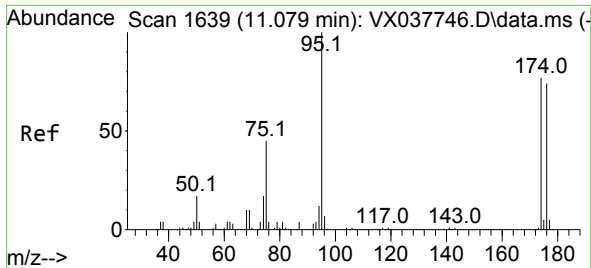
Tgt Ion:117 Resp: 27984  
Ion Ratio Lower Upper  
117 100  
119 3.7 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 48.004 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 98 Resp: 546023  
Ion Ratio Lower Upper  
98 100  
100 63.6 53.1 79.7

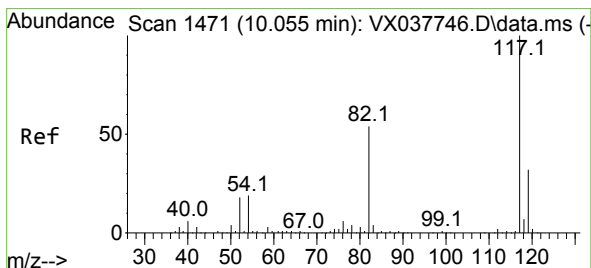
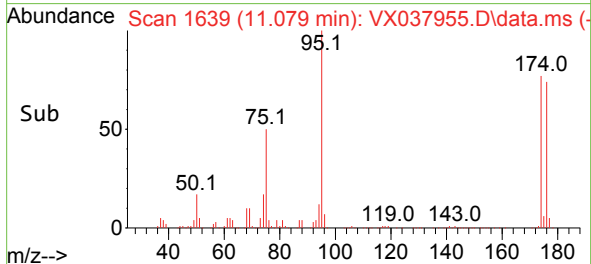
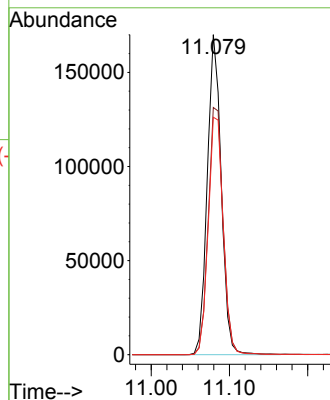
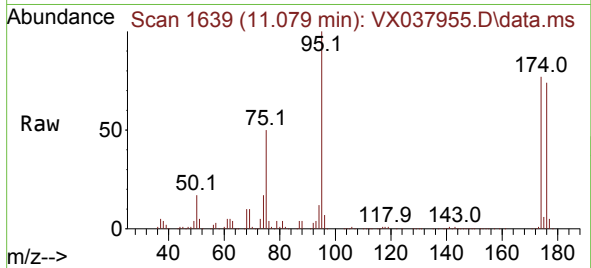




#62  
4-Bromofluorobenzene  
Concen: 50.626 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

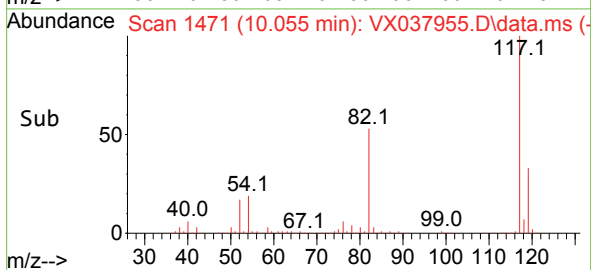
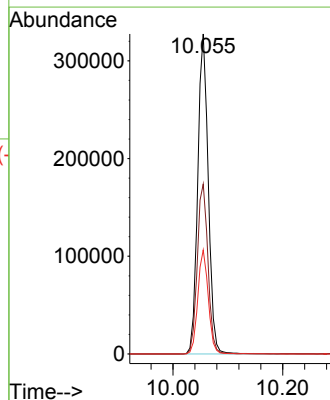
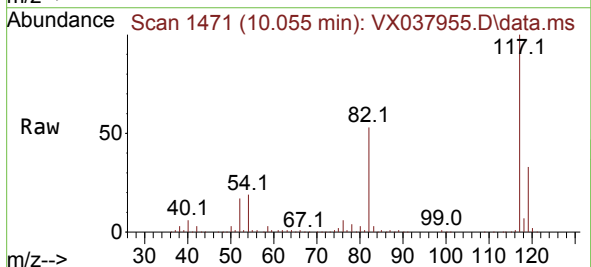
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

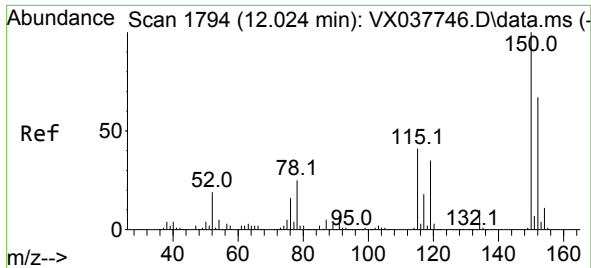
Tgt Ion: 95 Resp: 209249  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 135.6  
176 80.0 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 117 Resp: 438479  
Ion Ratio Lower Upper  
117 100  
82 53.1 46.2 69.4  
119 32.5 25.5 38.3

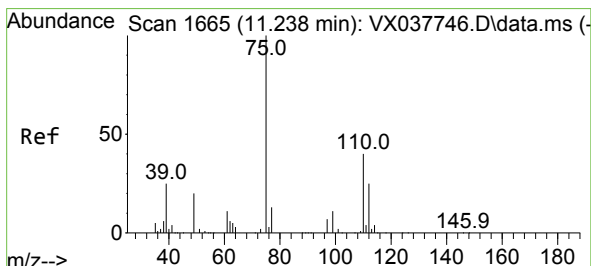
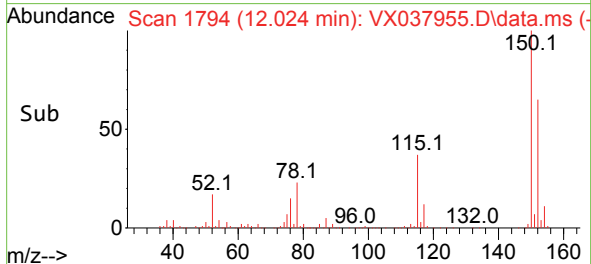
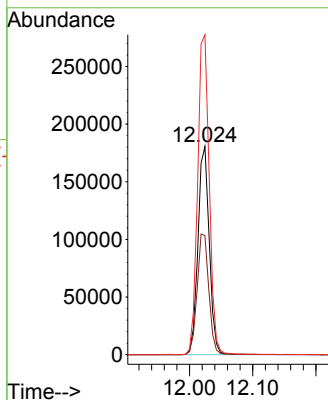
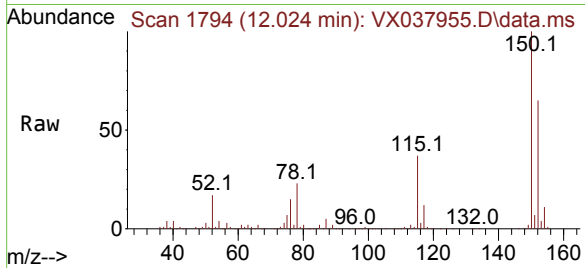




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

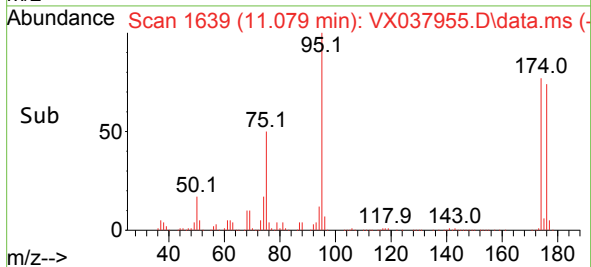
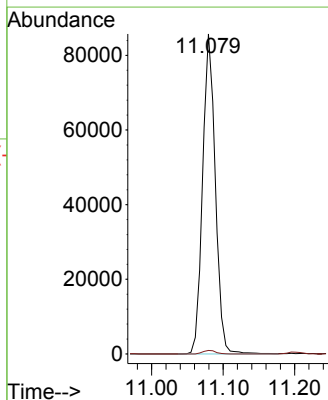
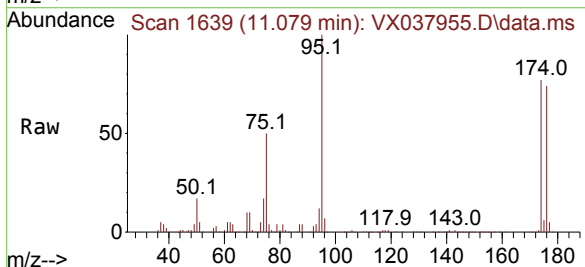
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

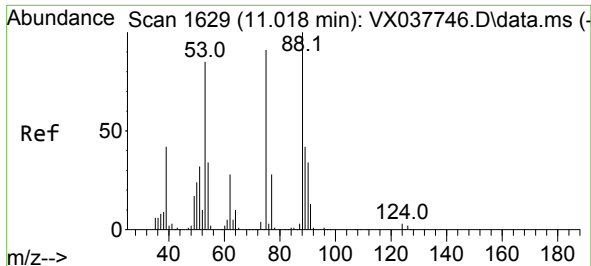
Tgt Ion:152 Resp: 225504  
Ion Ratio Lower Upper  
152 100  
115 59.8 43.3 129.9  
150 157.4 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 20.313 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 75 Resp: 105947  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

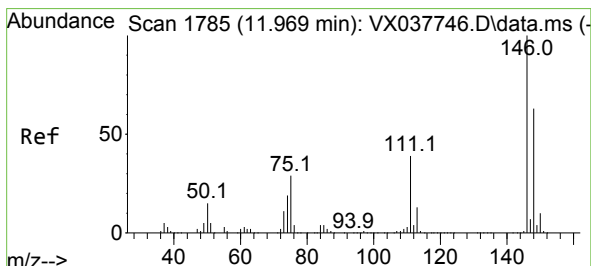
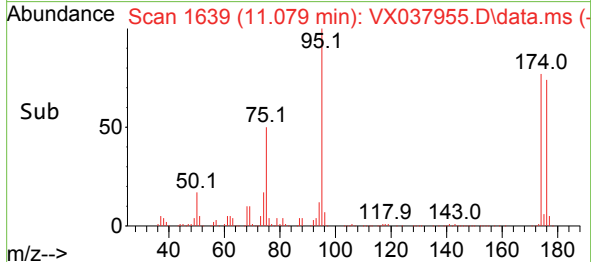
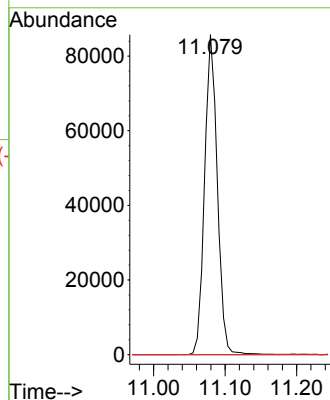
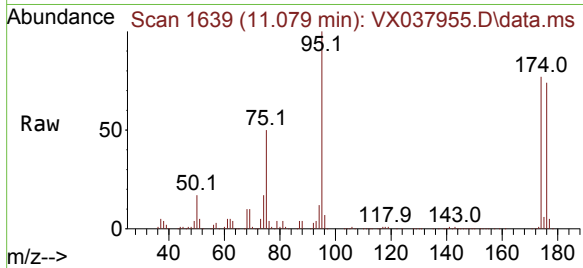




#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.070 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

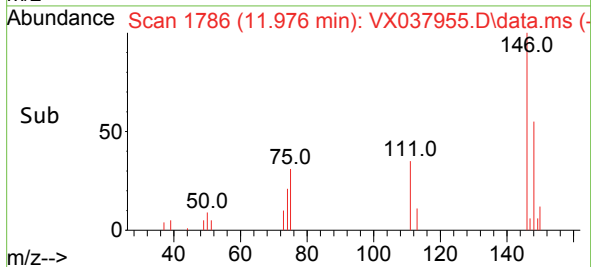
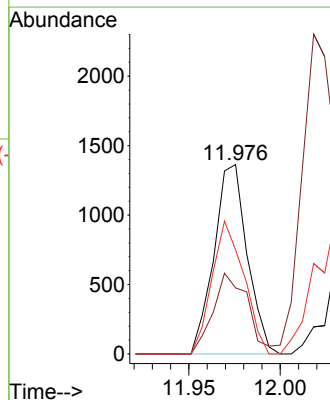
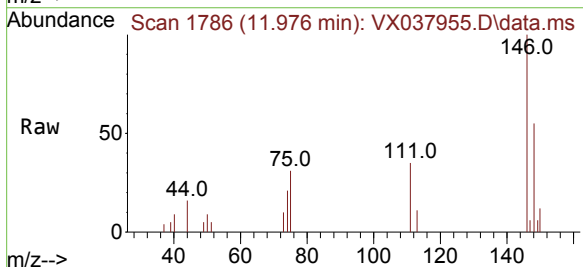
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

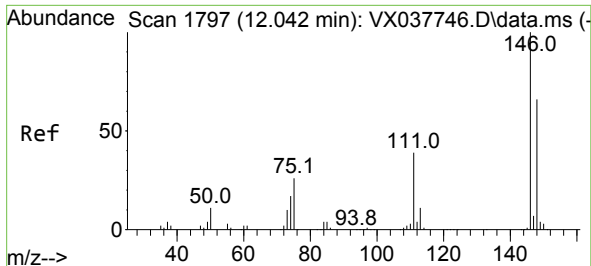
Tgt Ion: 75 Resp: 105947  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.226 ug/l  
RT: 11.976 min Scan# 1786  
Delta R.T. 0.006 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

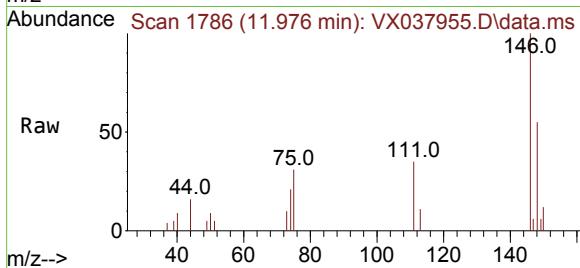
Tgt Ion:146 Resp: 1725  
Ion Ratio Lower Upper  
146 100  
111 44.2 22.1 66.1  
148 67.2 31.8 95.3



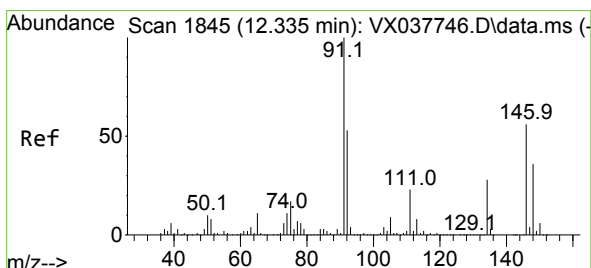
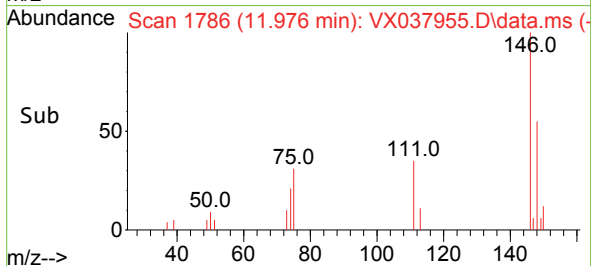
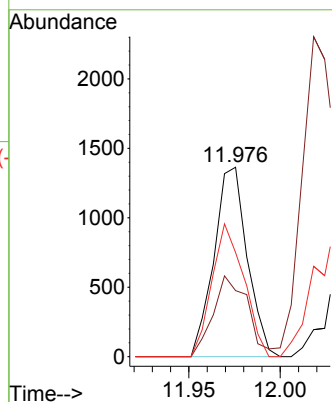


#88  
1,4-Dichlorobenzene  
Concen: 0.221 ug/l  
RT: 11.976 min Scan# 11  
Delta R.T. -0.067 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-RW10A-GW-520-522

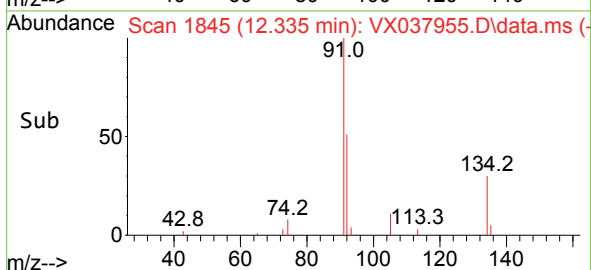
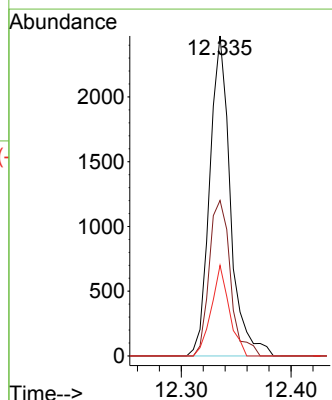
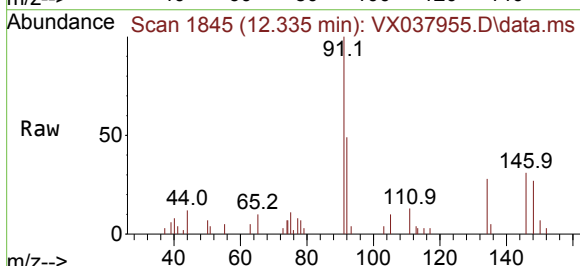


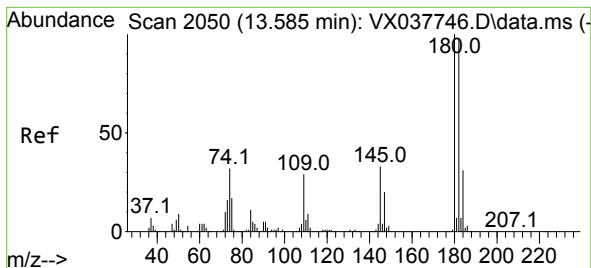
Tgt Ion:146 Resp: 1725  
Ion Ratio Lower Upper  
146 100  
111 44.2 21.3 63.7  
148 67.2 31.8 95.4



#89  
n-Butylbenzene  
Concen: 0.259 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.000 min  
Lab File: VX037955.D  
Acq: 28 Sep 2023 17:21

Tgt Ion: 91 Resp: 3236  
Ion Ratio Lower Upper  
91 100  
92 50.1 27.4 82.0  
134 24.7 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.459 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW10A-GW-520-522

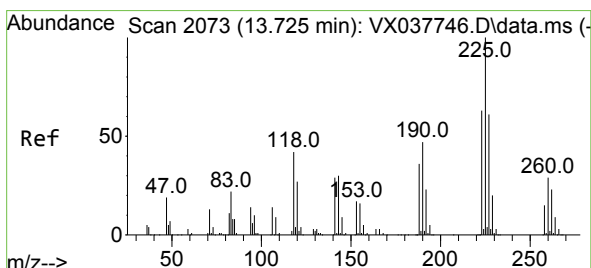
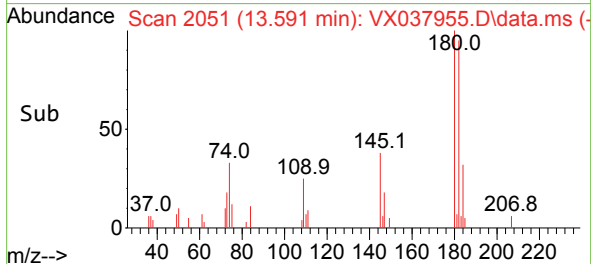
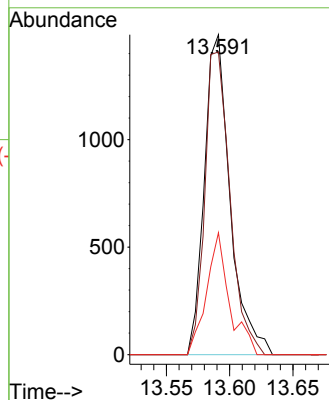
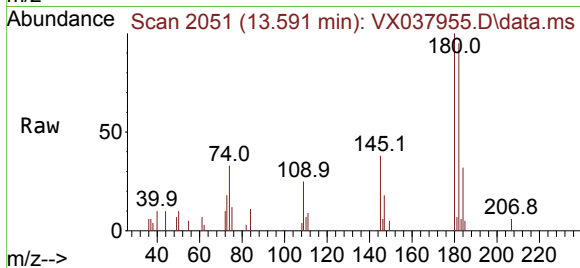
Tgt Ion:180 Resp: 2109

Ion Ratio Lower Upper

180 100

182 92.7 48.3 144.8

145 33.8 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.436 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

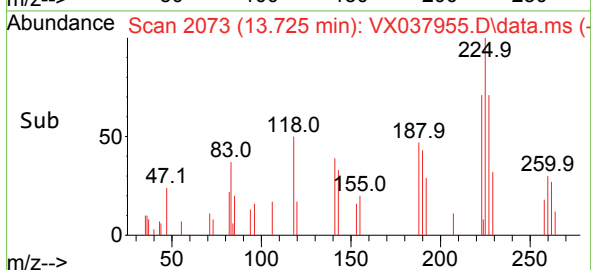
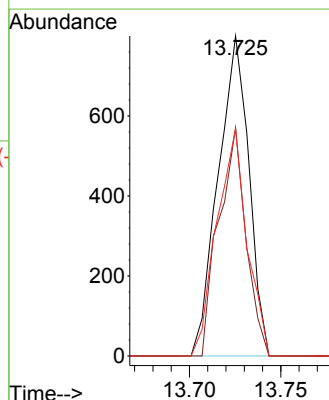
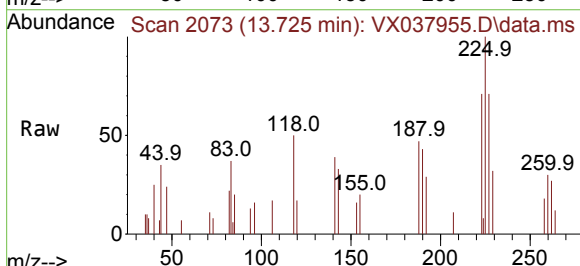
Tgt Ion:225 Resp: 935

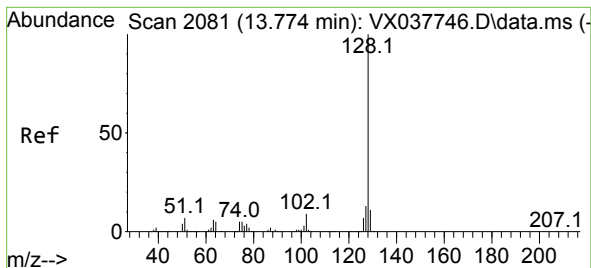
Ion Ratio Lower Upper

225 100

223 63.4 31.1 93.2

227 69.6 32.5 97.5





#95

Naphthalene

Concen: 0.345 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.006 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

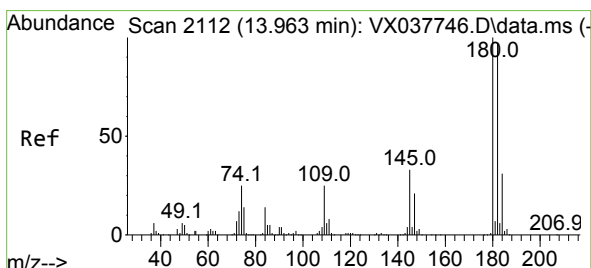
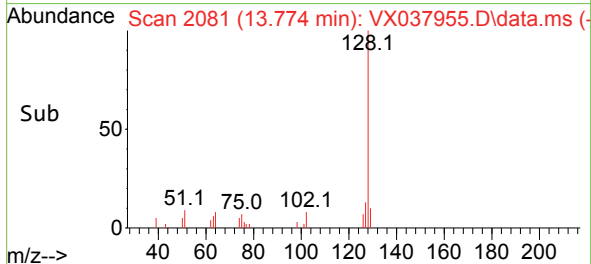
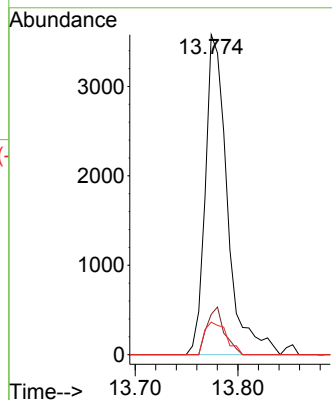
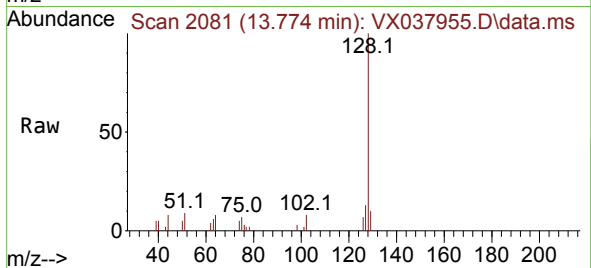
Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-RW10A-GW-520-522

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 5363  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.7  | 10.3  | 15.5  |
| 129      | 10.1  | 8.8   | 13.2  |



#96

1,2,3-Trichlorobenzene

Concen: 0.387 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX037955.D

Acq: 28 Sep 2023 17:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1830  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 90.5  | 46.9  | 140.6 |
| 145      | 36.7  | 17.8  | 53.5  |

