

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012224\  
 Data File : VX039888.D  
 Acq On : 22 Jan 2024 16:53  
 Operator : JC/MD  
 Sample : P1186-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB-191-GW-358-360

Quant Time: Jan 23 00:19:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

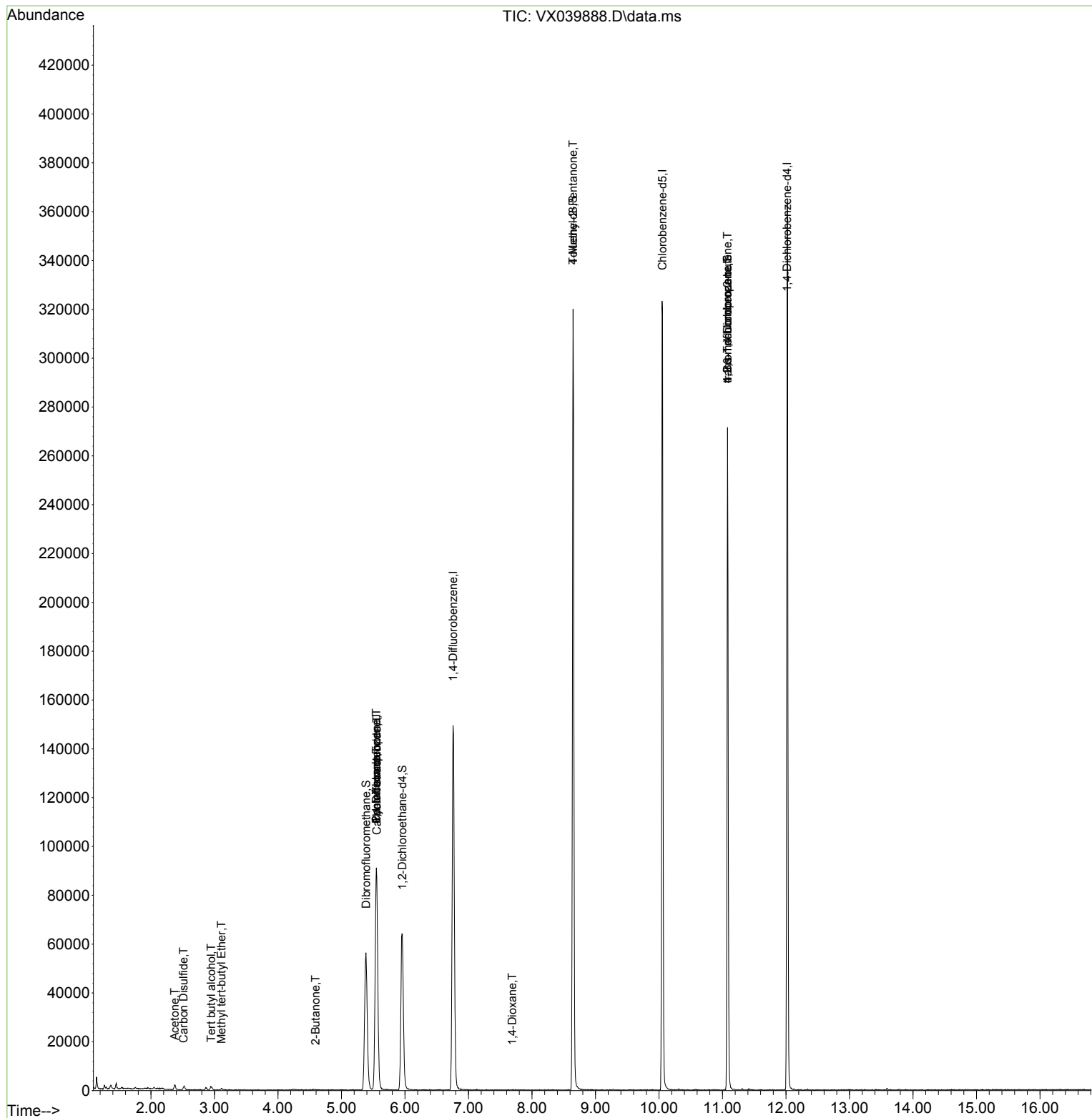
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 81043    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 147465   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 140655   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 66824    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 64180    | 47.275   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 94.540%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 48781    | 49.113   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.220%  |
| 50) Toluene-d8                | 8.647  | 98    | 181928   | 48.565   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.140%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 69313    | 47.316   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 94.640%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.947  | 59    | 1626     | 4.601    | ug/l   | 98       |
| 16) Acetone                   | 2.374  | 43    | 2175     | 2.849    | ug/l # | 86       |
| 17) Carbon Disulfide          | 2.514  | 76    | 636      | 0.227    | ug/l # | 76       |
| 19) Methyl tert-butyl Ether   | 3.111  | 73    | 704      | 0.203    | ug/l # | 66       |
| 25) 2-Butanone                | 4.593  | 43    | 232      | 0.211    | ug/l # | 51       |
| 31) Cyclohexane               | 5.550  | 56    | 2196     | 1.226    | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 7801     | 5.046    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 8851     | 6.251    | ug/l # | 16       |
| 49) 1,4-Dioxane               | 7.690  | 88    | 20       | 0.695    | ug/l # | 12       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1003     | 0.481    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 38675    | 22.324   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 38675    | 64.679   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

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BP-VPB-191-GW-358-360

Quant Time: Jan 23 00:19:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX039888.D

Acq: 22 Jan 2024 16:53

Instrument :

MSVOA\_X

ClientSampleId :

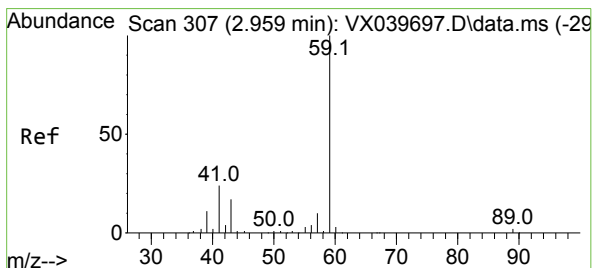
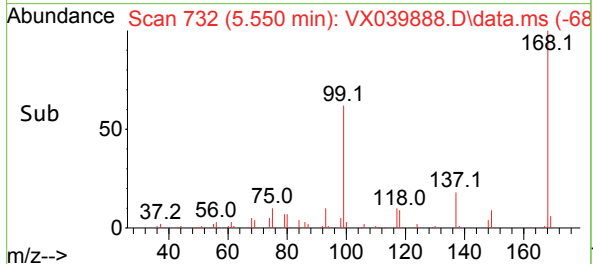
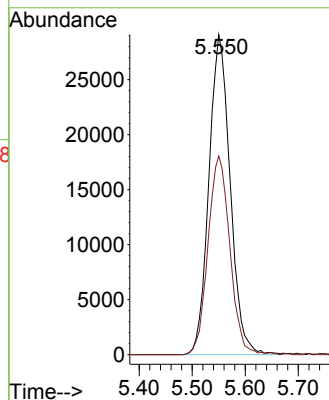
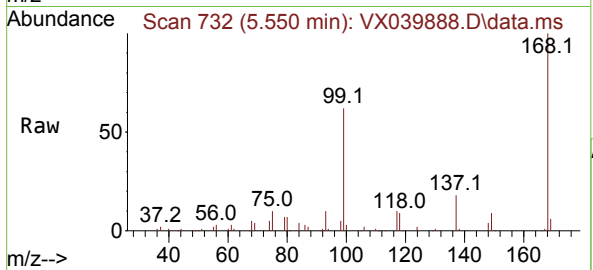
BP-VPB-191-GW-358-360

Tgt Ion:168 Resp: 81043

Ion Ratio Lower Upper

168 100

99 62.1 56.6 85.0



#11

Tert butyl alcohol

Concen: 4.601 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.012 min

Lab File: VX039888.D

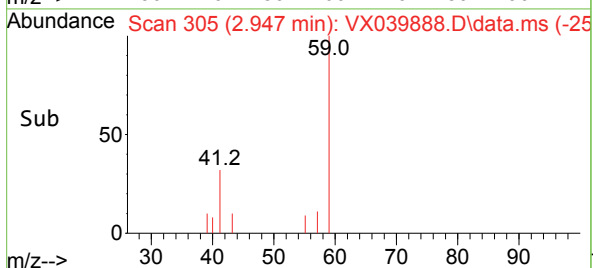
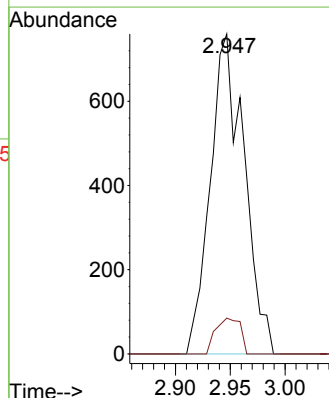
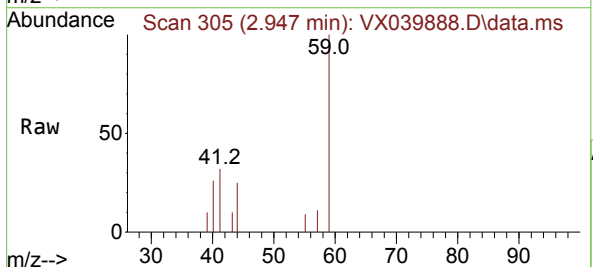
Acq: 22 Jan 2024 16:53

Tgt Ion: 59 Resp: 1626

Ion Ratio Lower Upper

59 100

57 8.2 6.0 9.0

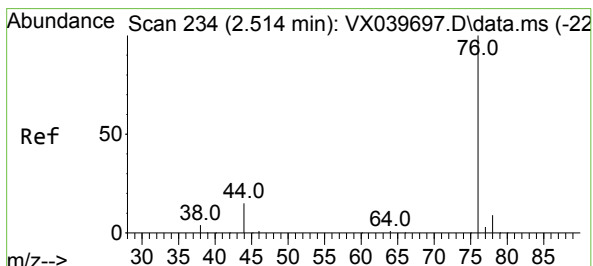
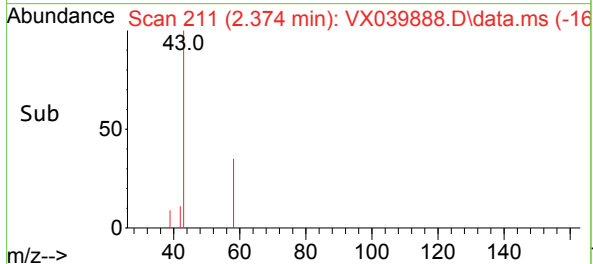
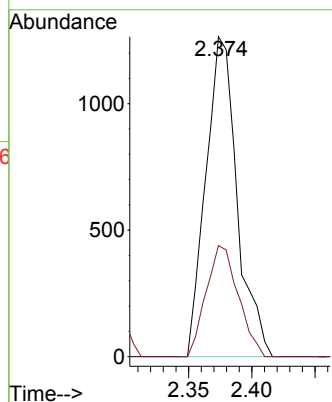
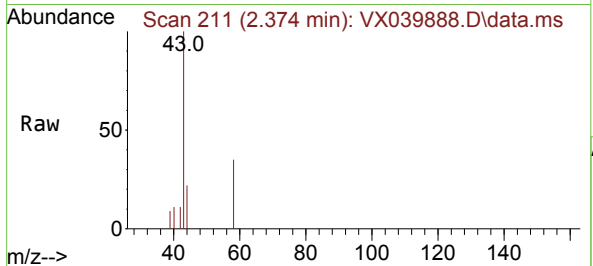




#16  
Acetone  
Concen: 2.849 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

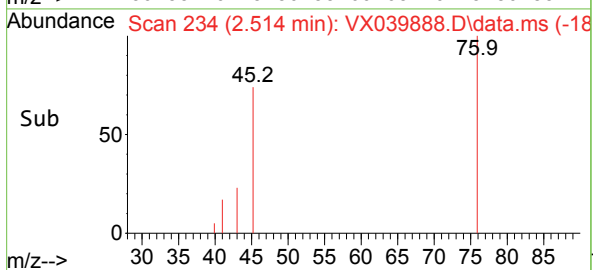
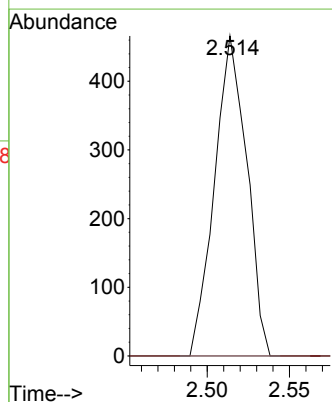
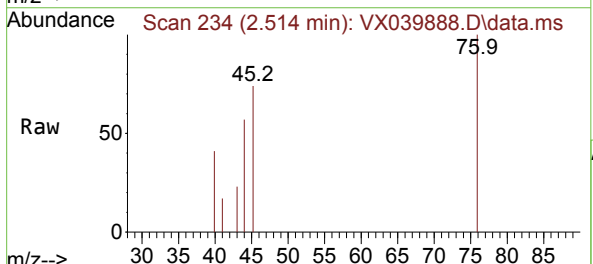
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-191-GW-358-360

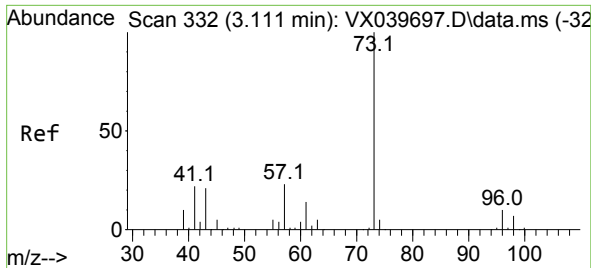
Tgt Ion: 43 Resp: 2175  
Ion Ratio Lower Upper  
43 100  
58 34.7 21.9 32.9#



#17  
Carbon Disulfide  
Concen: 0.227 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion: 76 Resp: 636  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#

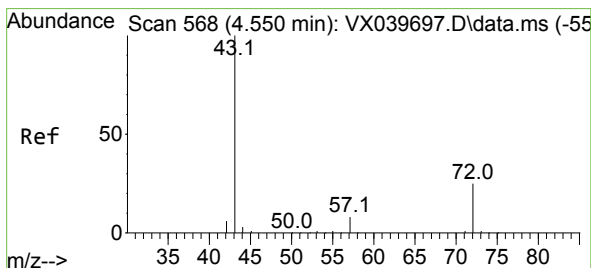
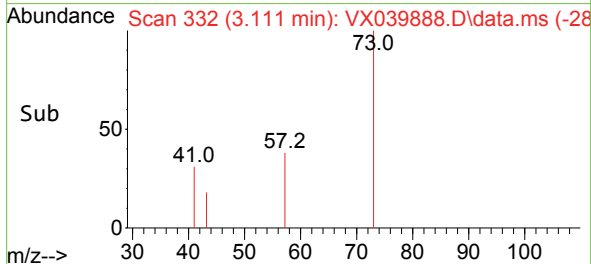
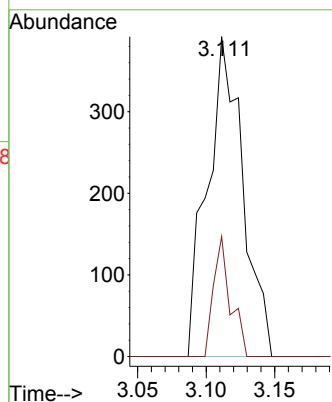
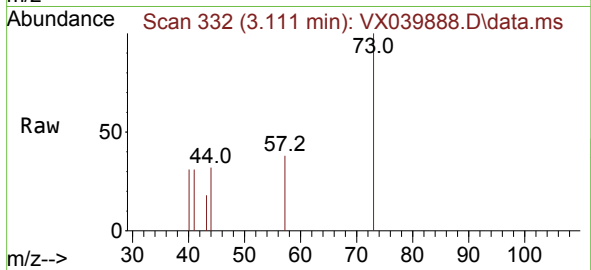




#19  
Methyl tert-butyl Ether  
Concen: 0.203 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

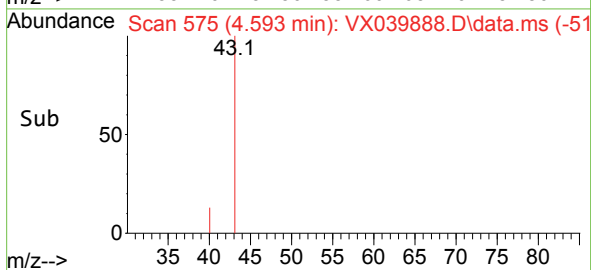
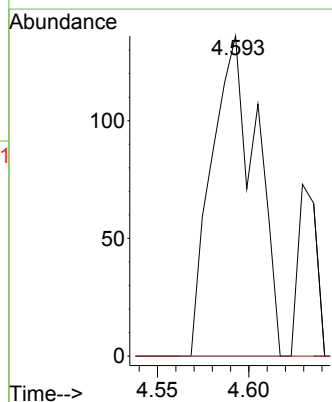
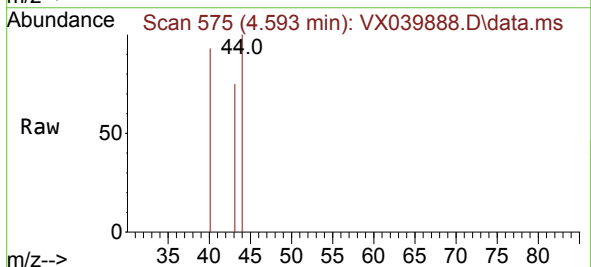
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-191-GW-358-360

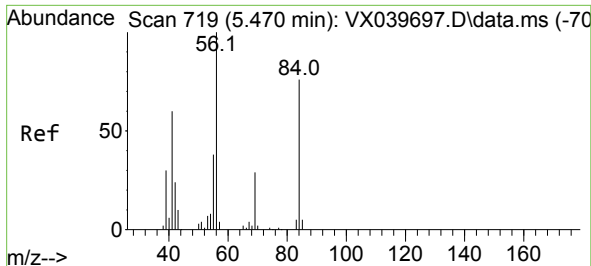
Tgt Ion: 73 Resp: 704  
Ion Ratio Lower Upper  
73 100  
57 37.5 17.3 25.9#



#25  
2-Butanone  
Concen: 0.211 ug/l  
RT: 4.593 min Scan# 575  
Delta R.T. 0.043 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

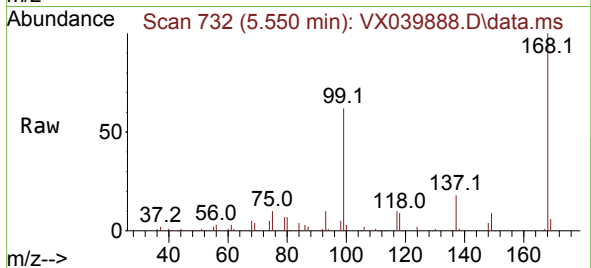
Tgt Ion: 43 Resp: 232  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



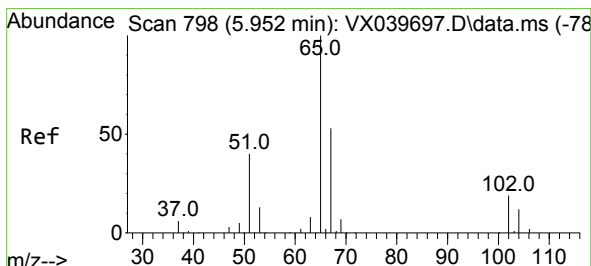
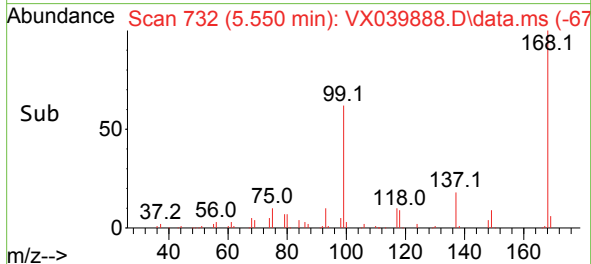
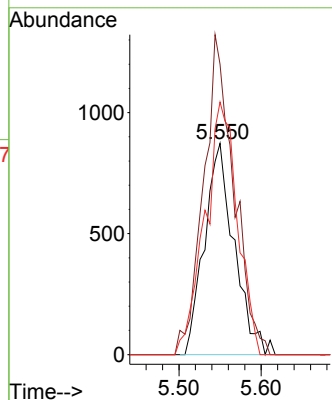


#31  
Cyclohexane  
Concen: 1.226 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-191-GW-358-360

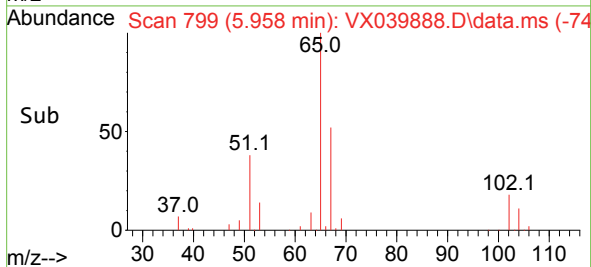
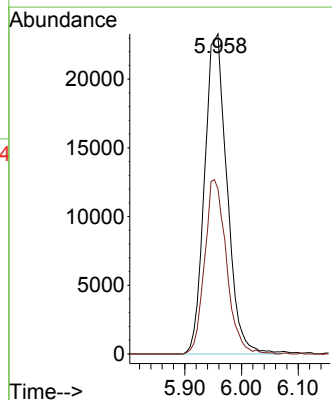
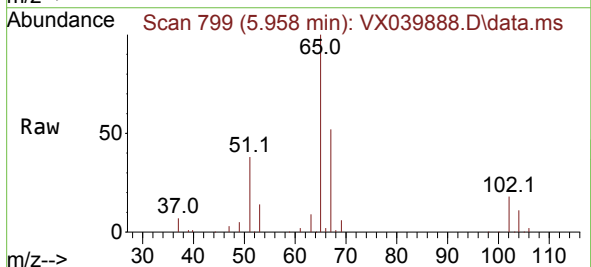


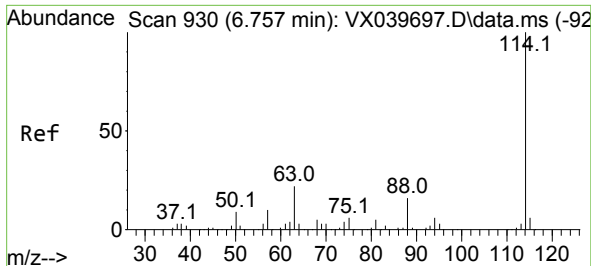
Tgt Ion: 56 Resp: 2196  
Ion Ratio Lower Upper  
56 100  
69 137.5 23.4 35.2#  
84 119.6 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 47.275 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion: 65 Resp: 64180  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 100.2

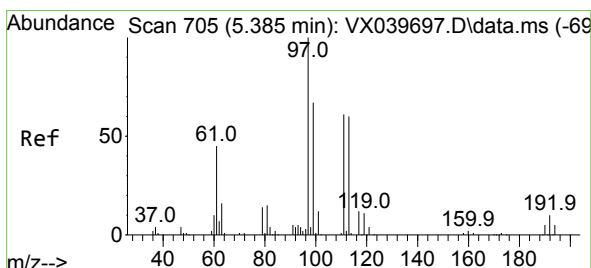
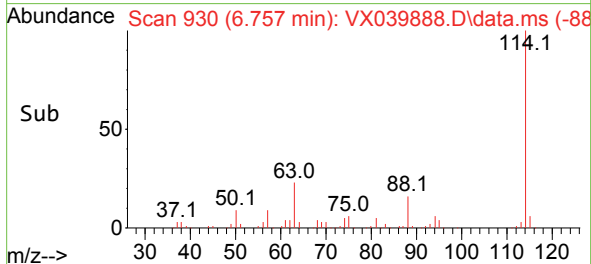
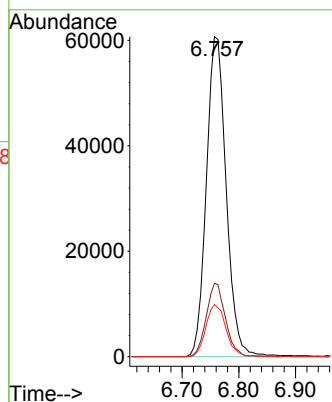
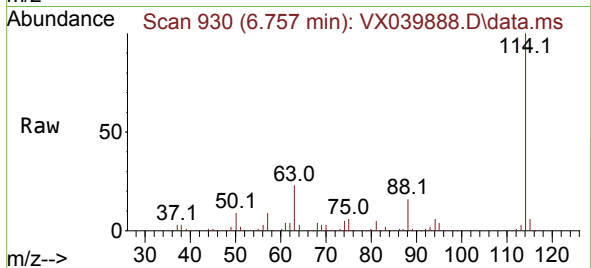




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

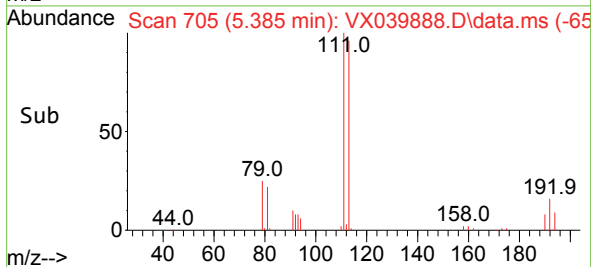
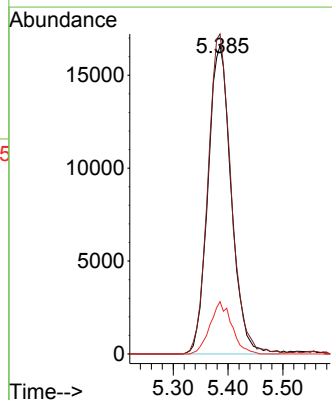
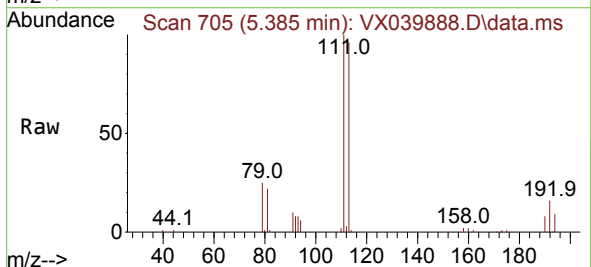
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-191-GW-358-360

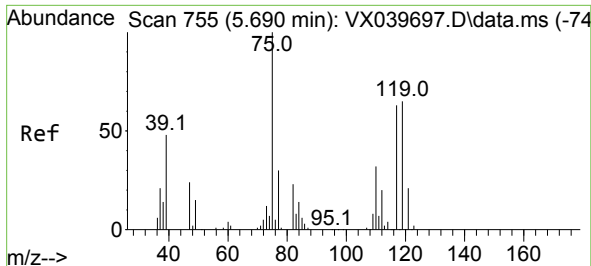
Tgt Ion:114 Resp: 147465  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 45.0  
88 16.3 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 49.113 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion:113 Resp: 48781  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 15.9 13.3 19.9

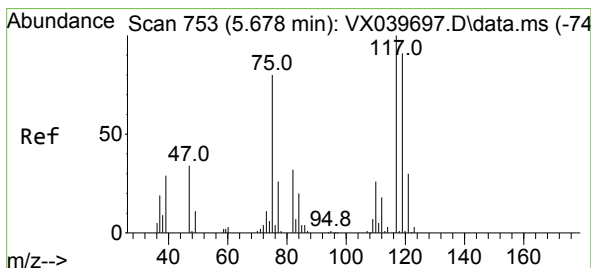
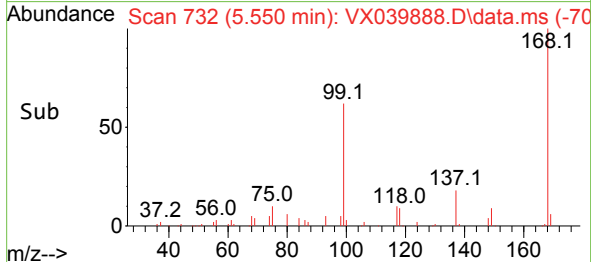
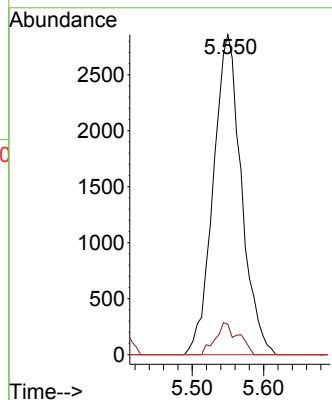
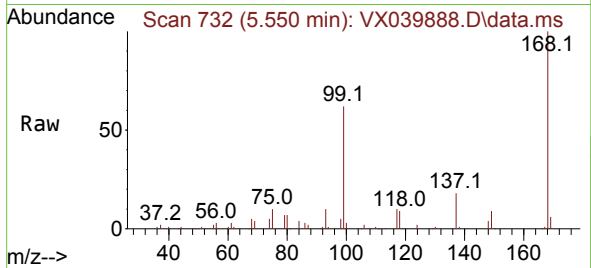




#36  
1,1-Dichloropropene  
Concen: 5.046 ug/l  
RT: 5.550 min Scan# 710  
Delta R.T. -0.140 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

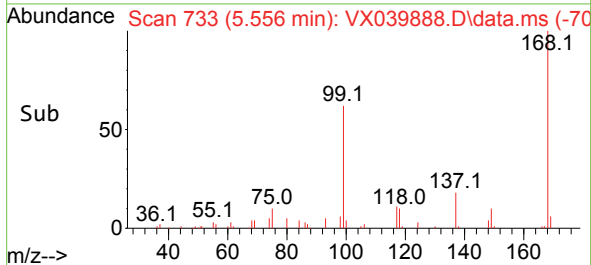
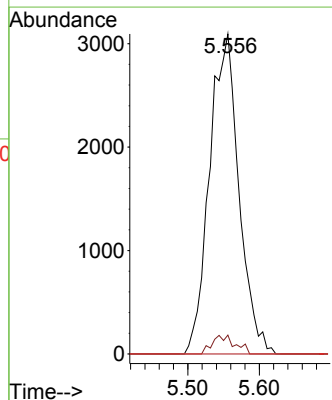
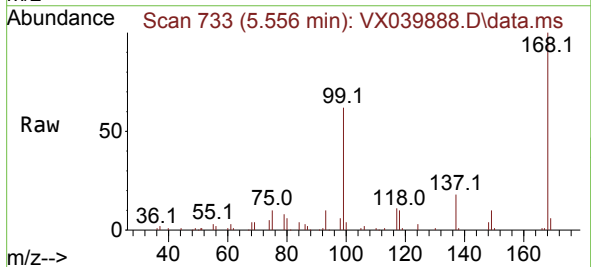
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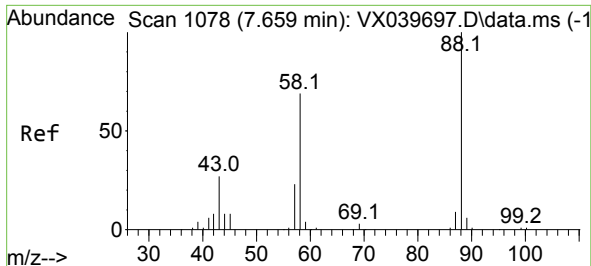
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Ion Ratio Lower Upper  
75 100  
110 8.1 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.251 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion: 117 Resp: 8851  
Ion Ratio Lower Upper  
117 100  
119 5.9 78.2 117.2#  
121 0.0 24.4 36.6#

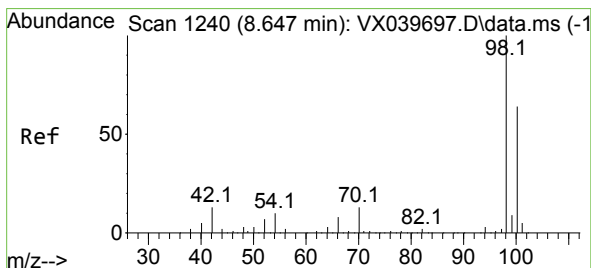
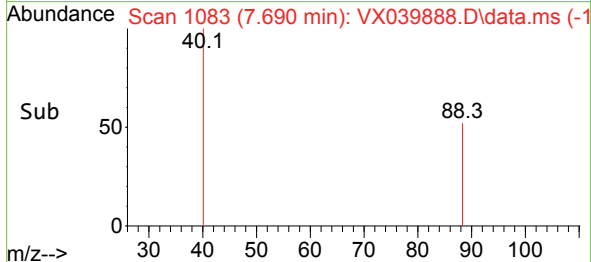
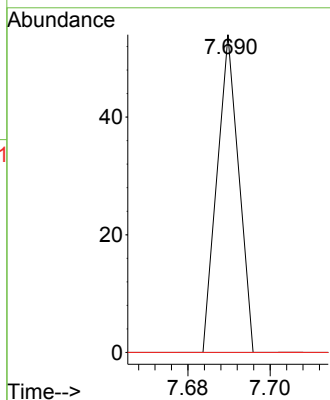
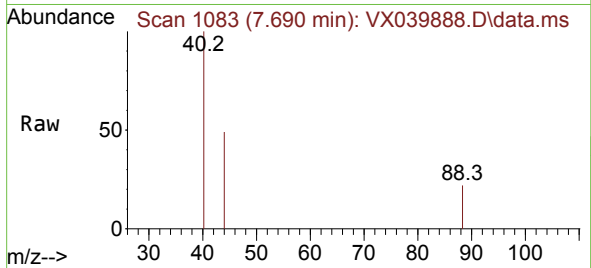




#49  
1,4-Dioxane  
Concen: 0.695 ug/l  
RT: 7.690 min Scan# 1078  
Delta R.T. 0.031 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

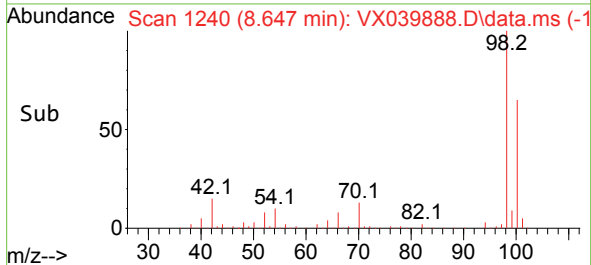
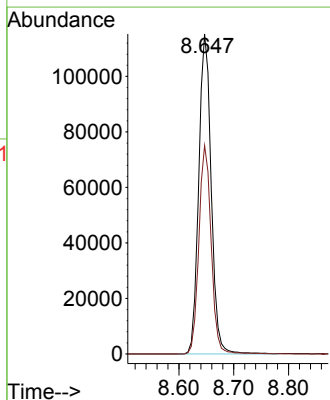
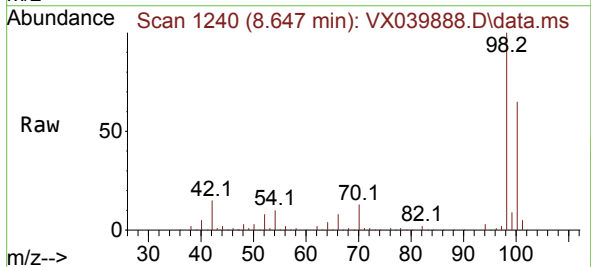
Instrument :  
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ClientSampleId :  
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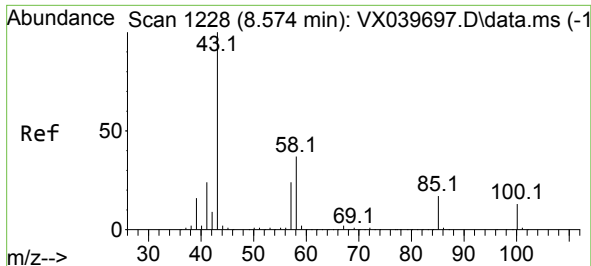
Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 48.565 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion: 98 Resp: 181928  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7

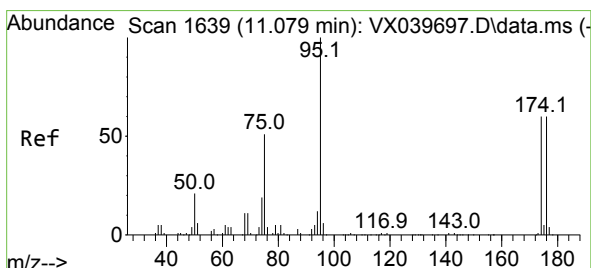
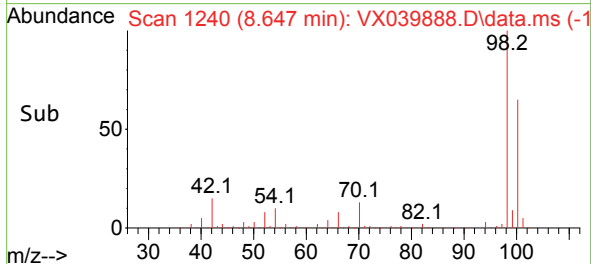
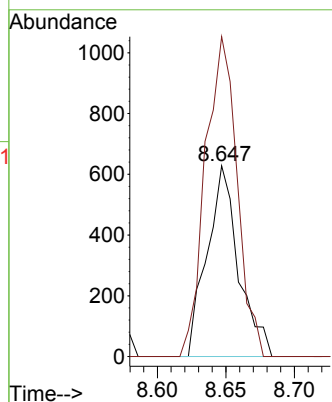
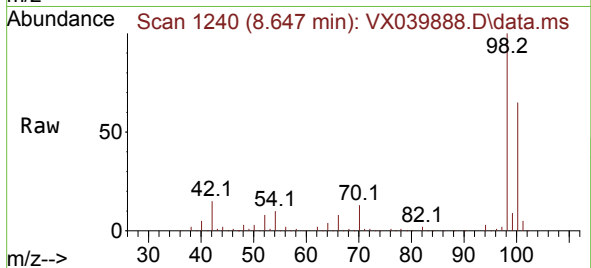




#51  
4-Methyl-2-Pentanone  
Concen: 0.481 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

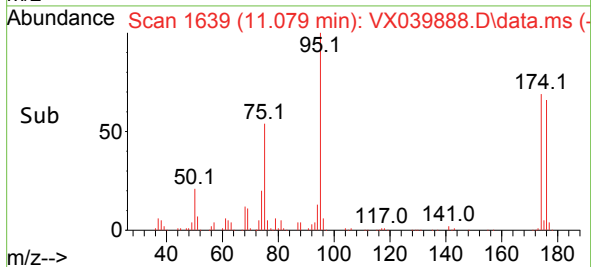
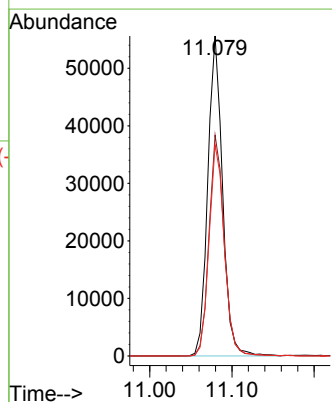
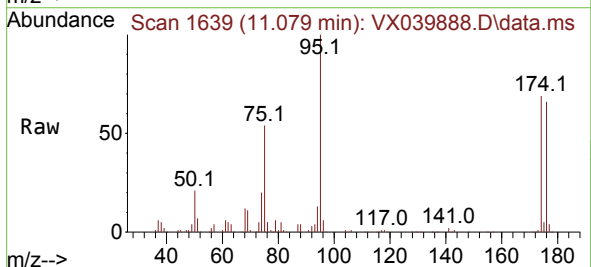
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB-191-GW-358-360

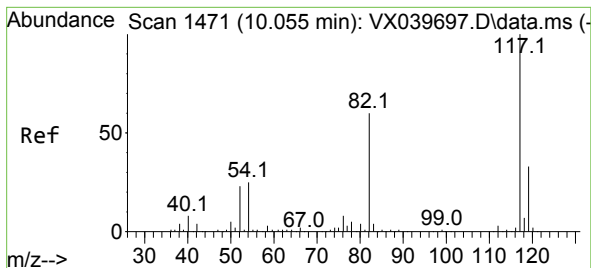
Tgt Ion: 43 Resp: 1003  
Ion Ratio Lower Upper  
43 100  
58 169.0 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 47.316 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039888.D  
Acq: 22 Jan 2024 16:53

Tgt Ion: 95 Resp: 69313  
Ion Ratio Lower Upper  
95 100  
174 70.6 0.0 135.6  
176 68.4 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: VX039888.D

Acq: 22 Jan 2024 16:53

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB-191-GW-358-360

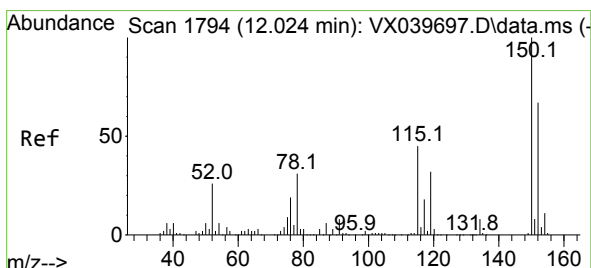
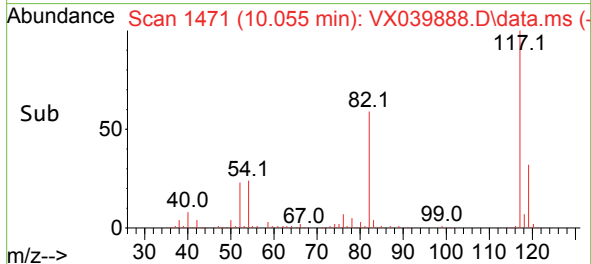
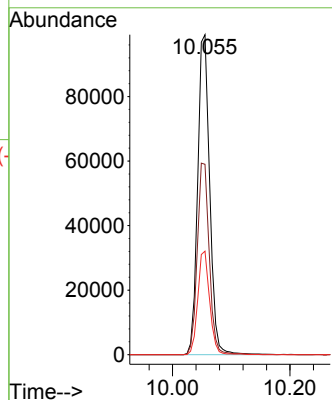
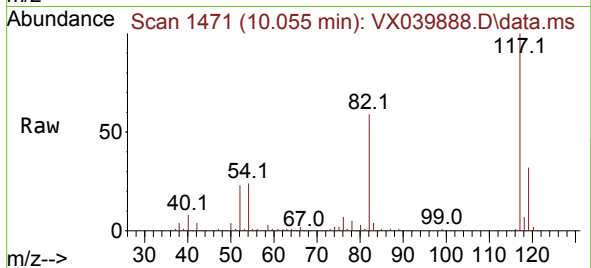
Tgt Ion:117 Resp: 140655

Ion Ratio Lower Upper

117 100

82 59.5 46.2 69.4

119 32.4 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX039888.D

Acq: 22 Jan 2024 16:53

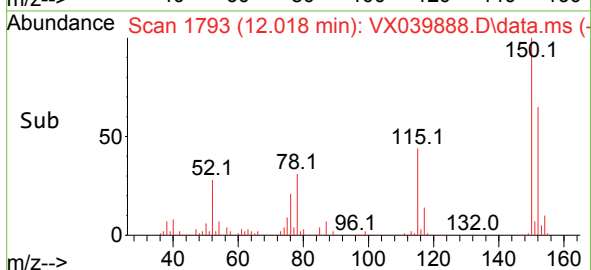
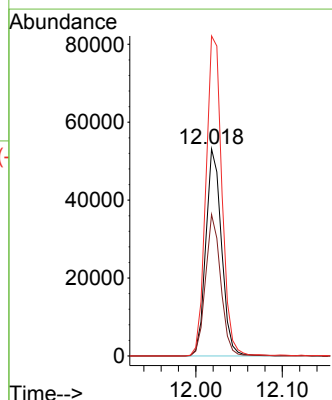
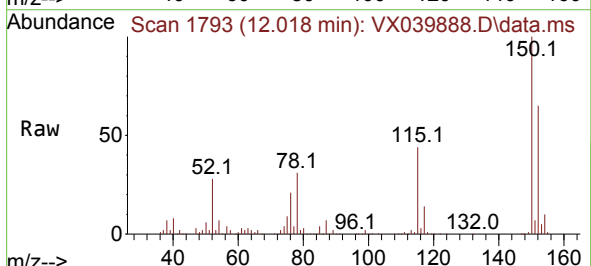
Tgt Ion:152 Resp: 66824

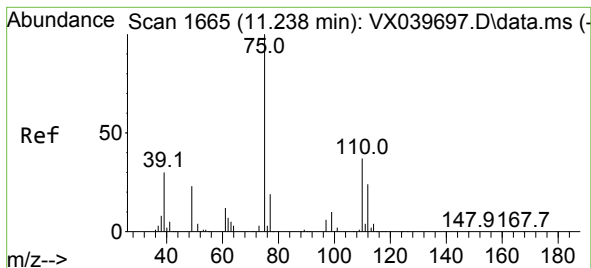
Ion Ratio Lower Upper

152 100

115 66.1 43.3 129.9

150 157.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.324 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX039888.D

Acq: 22 Jan 2024 16:53

Instrument :

MSVOA\_X

ClientSampleId :

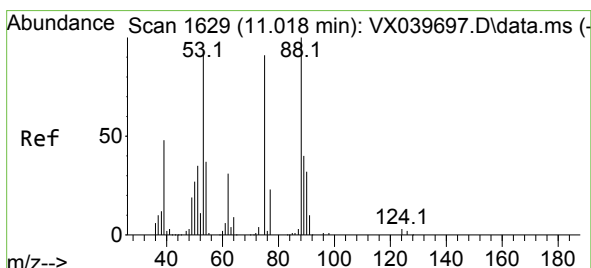
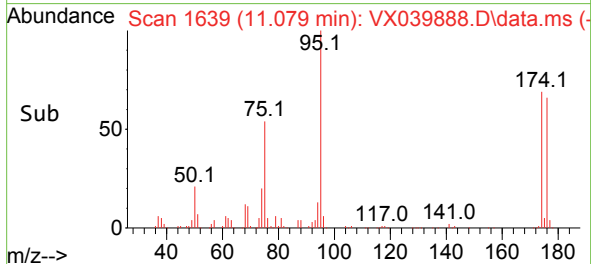
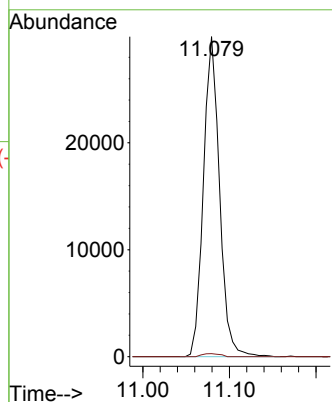
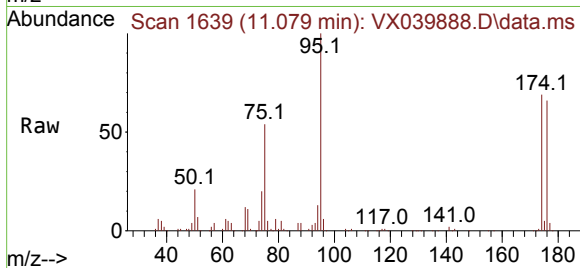
BP-VPB-191-GW-358-360

Tgt Ion: 75 Resp: 38675

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.679 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039888.D

Acq: 22 Jan 2024 16:53

Tgt Ion: 75 Resp: 38675

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

