

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061923\  
 Data File : VY014234.D  
 Acq On : 19 Jun 2023 17:44  
 Operator : KP/MD  
 Sample : 03279-01  
 Misc : 5.21g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TOPSOIL-OU3-DENALI-1

Quant Time: Jun 20 04:59:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060923S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 09 18:07:13 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| -----                       |        |       |          |          |       |          |
| Internal Standards          |        |       |          |          |       |          |
| 1) Pentafluorobenzene       | 7.789  | 168   | 158593   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.685  | 114   | 250132   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 228251   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.422 | 152   | 84302    | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.137  | 65    | 107511   | 48.682   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 97.360%  |
| 35) Dibromofluoromethane    | 7.716  | 113   | 85016    | 47.927   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 95.860%  |
| 50) Toluene-d8              | 10.179 | 98    | 306303   | 46.187   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =     | 92.380%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 81609    | 34.641   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =     | 69.280%  |

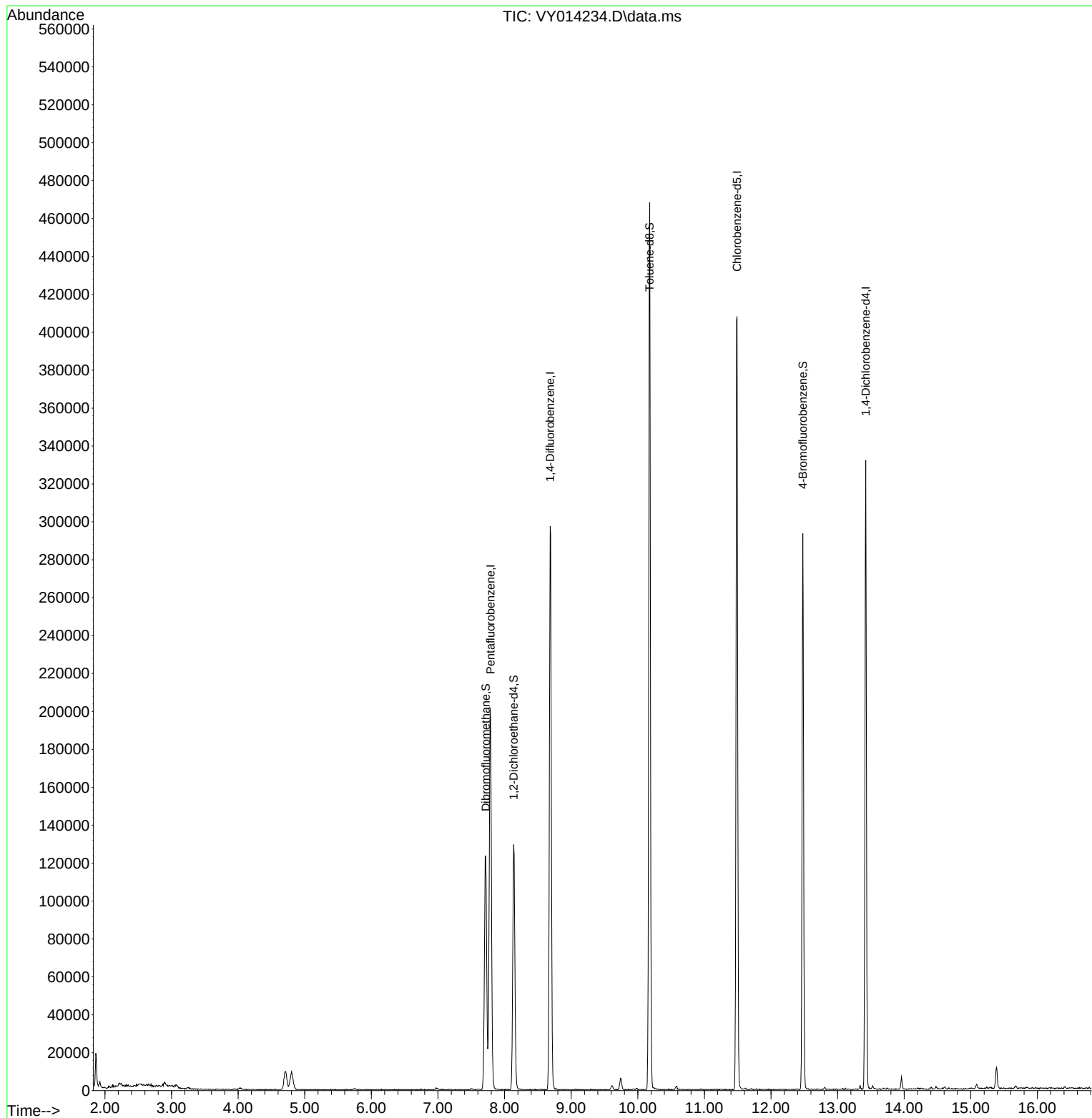
|                  |        |
|------------------|--------|
| Target Compounds | Qvalue |
| -----            |        |

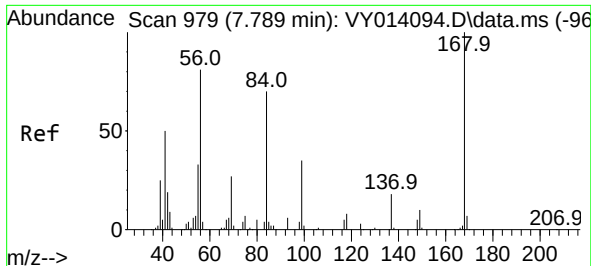
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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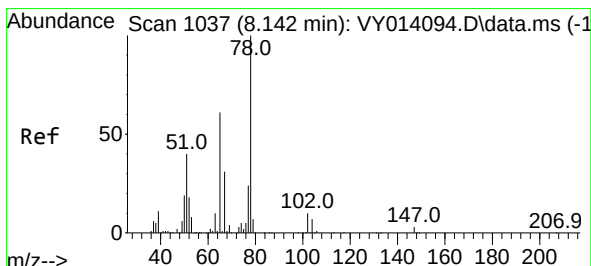
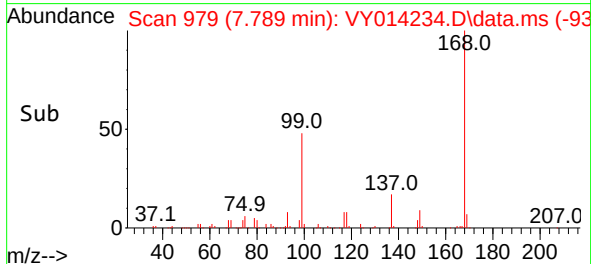
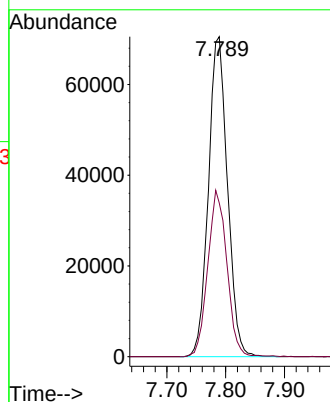
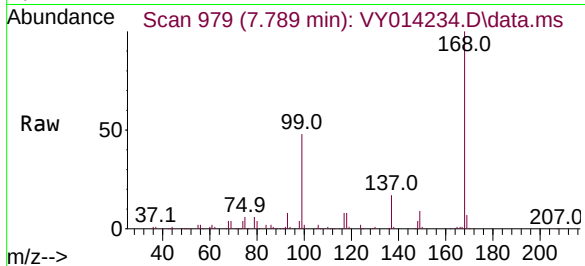




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY014234.D  
Acq: 19 Jun 2023 17:44

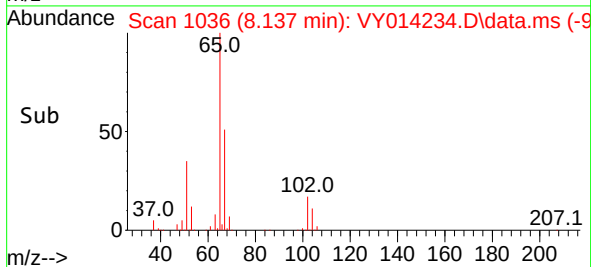
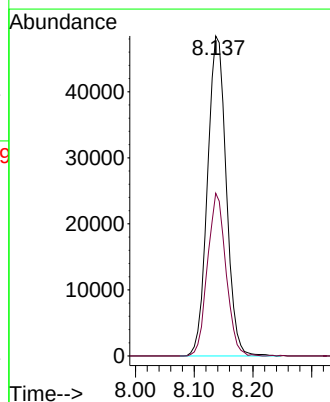
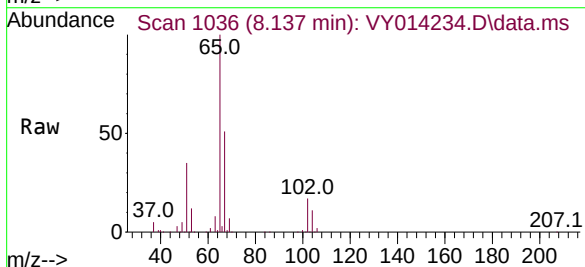
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TOPSOIL-OU3-DENALI-1

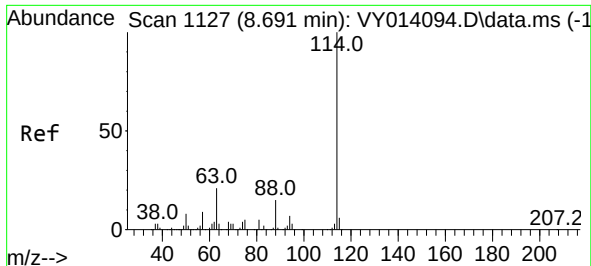
Tgt Ion:168 Resp: 158593  
Ion Ratio Lower Upper  
168 100  
99 48.0 43.4 65.0



#33  
1,2-Dichloroethane-d4  
Concen: 48.682 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.005 min  
Lab File: VY014234.D  
Acq: 19 Jun 2023 17:44

Tgt Ion: 65 Resp: 107511  
Ion Ratio Lower Upper  
65 100  
67 50.1 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY014234.D

Acq: 19 Jun 2023 17:44

Instrument :

MSVOA\_Y

ClientSampleId :

TOPSOIL-OU3-DENALI-1

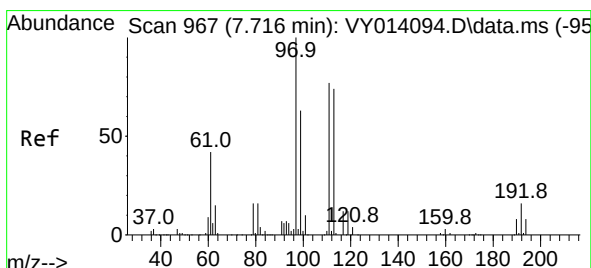
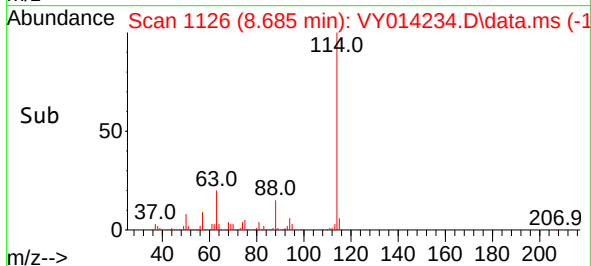
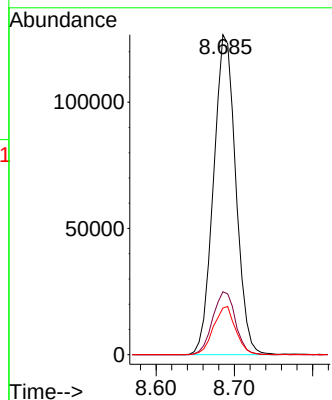
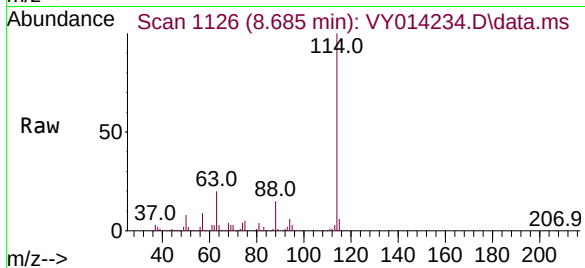
Tgt Ion:114 Resp: 250132

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.927 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014234.D

Acq: 19 Jun 2023 17:44

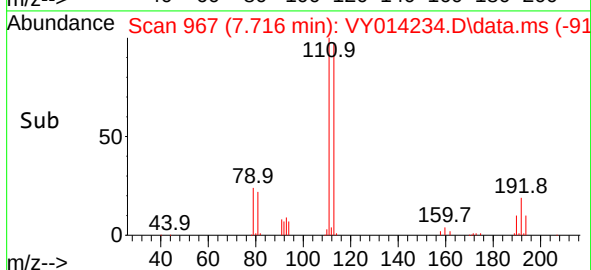
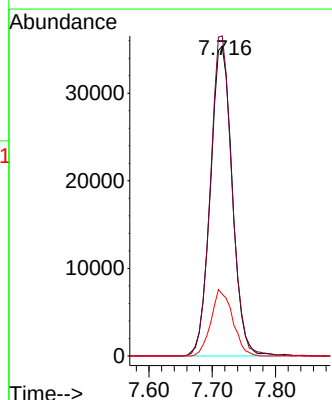
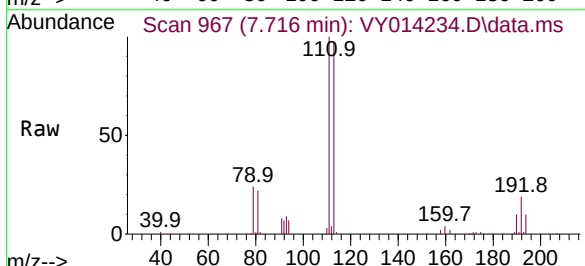
Tgt Ion:113 Resp: 85016

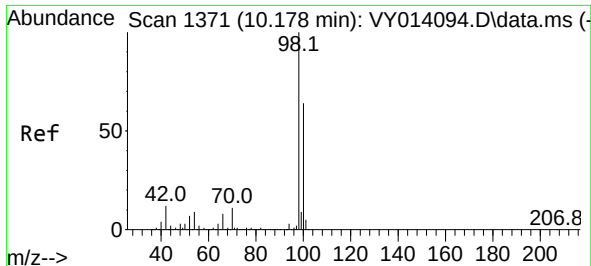
Ion Ratio Lower Upper

113 100

111 101.9 81.3 121.9

192 21.2 16.9 25.3

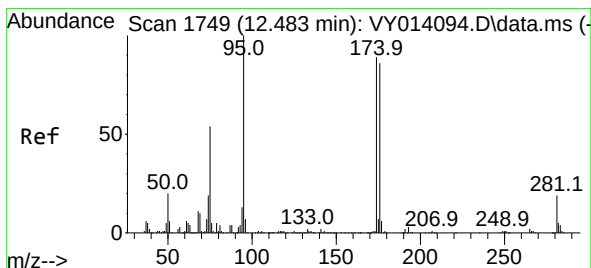
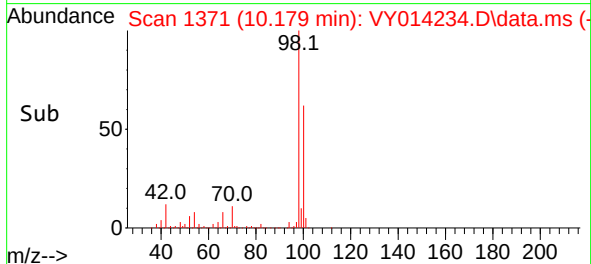
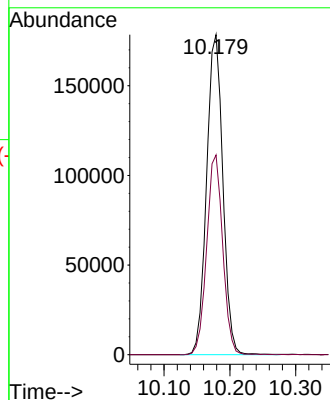
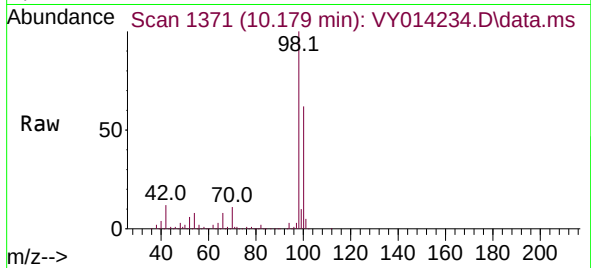




#50  
Toluene-d8  
Concen: 46.187 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VY014234.D  
Acq: 19 Jun 2023 17:44

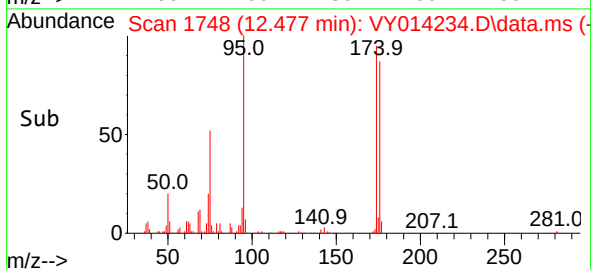
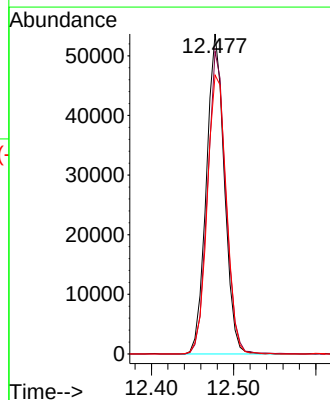
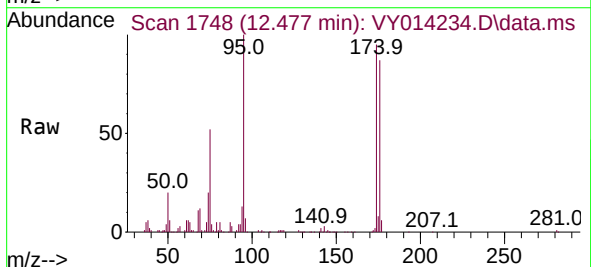
Instrument :  
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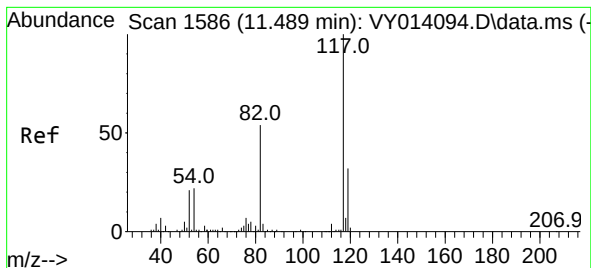
Tgt Ion: 98 Resp: 306303  
Ion Ratio Lower Upper  
98 100  
100 61.6 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 34.641 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: VY014234.D  
Acq: 19 Jun 2023 17:44

Tgt Ion: 95 Resp: 81609  
Ion Ratio Lower Upper  
95 100  
174 95.7 0.0 178.2  
176 93.0 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014234.D

Acq: 19 Jun 2023 17:44

Instrument :

MSVOA\_Y

ClientSampleId :

TOPSOIL-OU3-DENALI-1

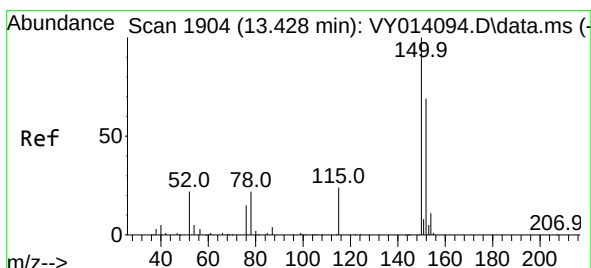
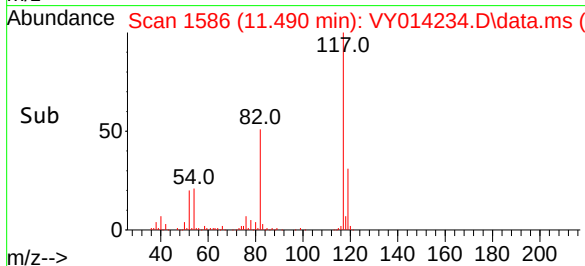
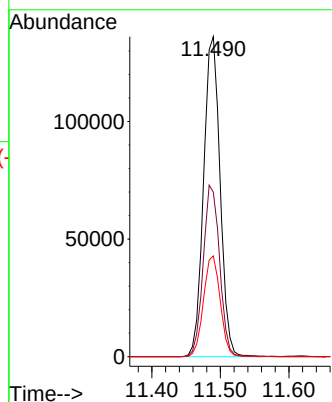
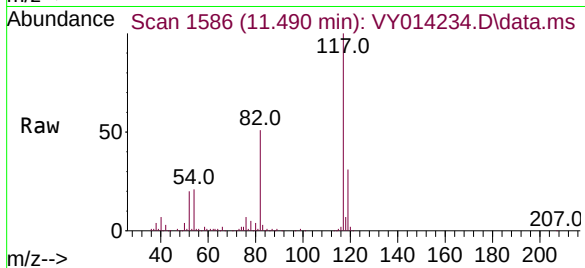
Tgt Ion:117 Resp: 228251

Ion Ratio Lower Upper

117 100

82 51.4 43.4 65.0

119 31.5 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY014234.D

Acq: 19 Jun 2023 17:44

Tgt Ion:152 Resp: 84302

Ion Ratio Lower Upper

152 100

115 55.2 28.8 86.5

150 153.2 0.0 348.8

