

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032023\  
 Data File : VY013009.D  
 Acq On : 20 Mar 2023 15:40  
 Operator : KP/MD  
 Sample : 02001-01  
 Misc : 6.12g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 IRV-1

Quant Time: Mar 21 01:13:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 03 01:13:13 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 81395    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 138678   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 127542   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 56508    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 54054    | 66.886   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 133.780% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 47337    | 56.561   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 113.120% |
| 50) Toluene-d8              | 10.179 | 98    | 165854   | 54.208   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 108.420% |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 50238    | 48.648   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 97.300%  |

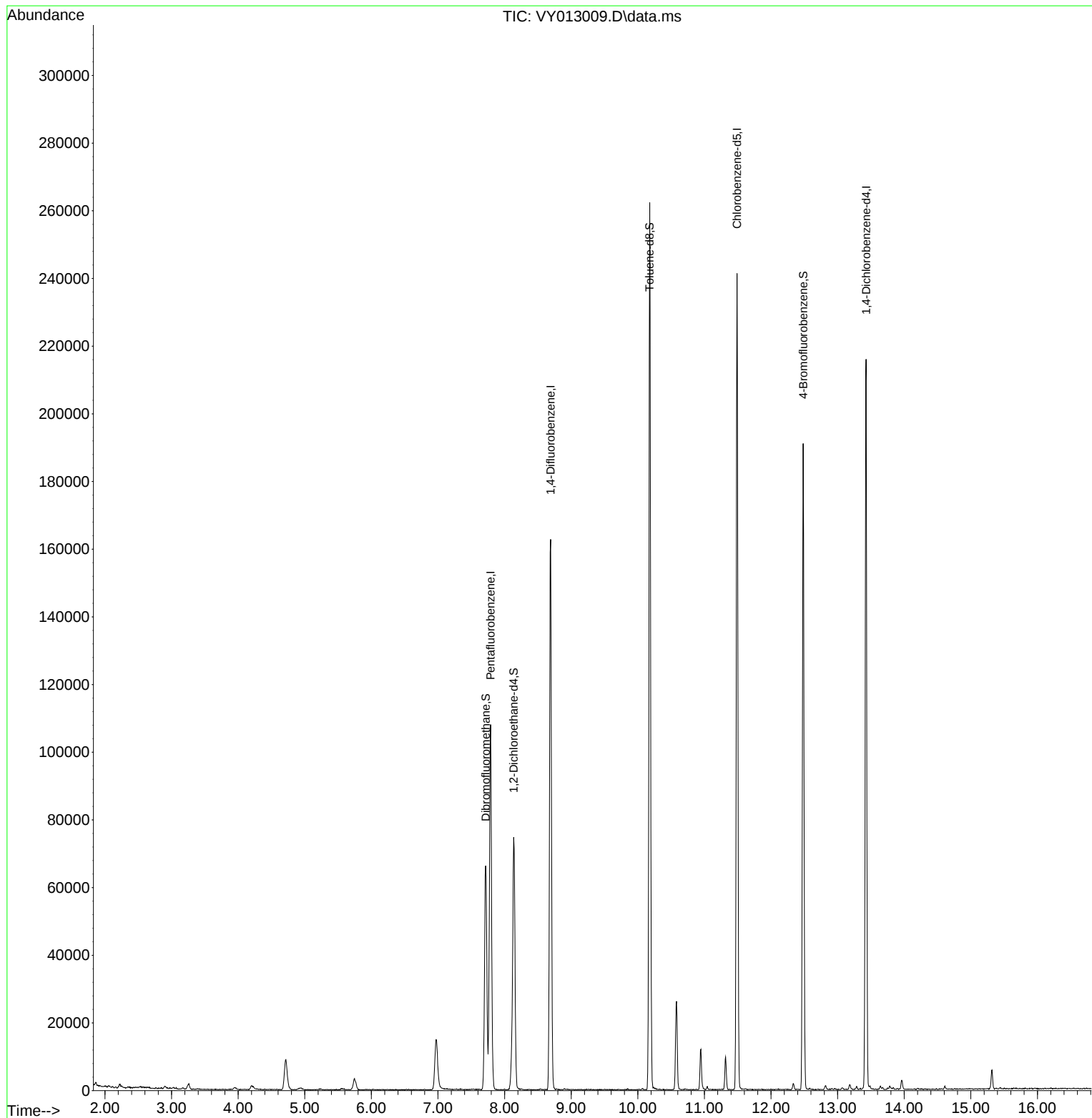
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

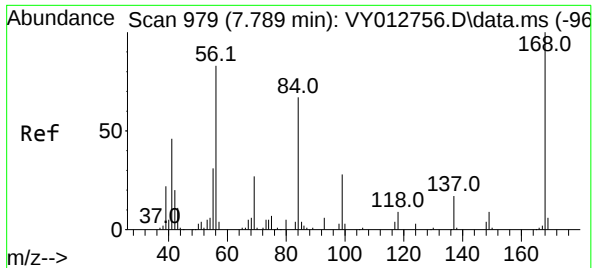
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Mar 03 01:13:13 2023  
Response via : Initial Calibration

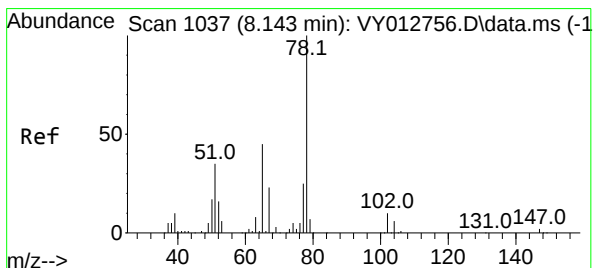
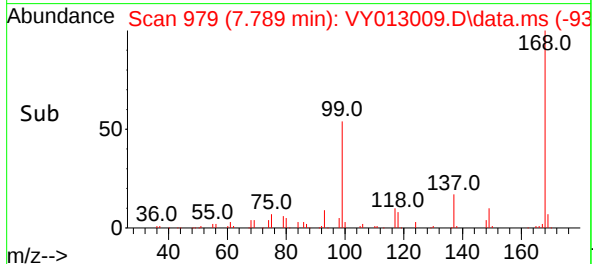
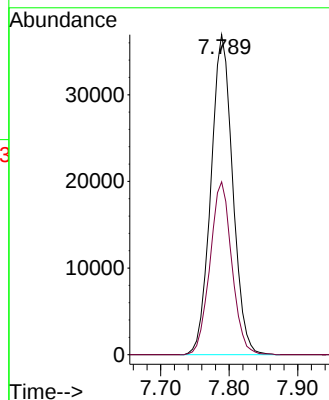
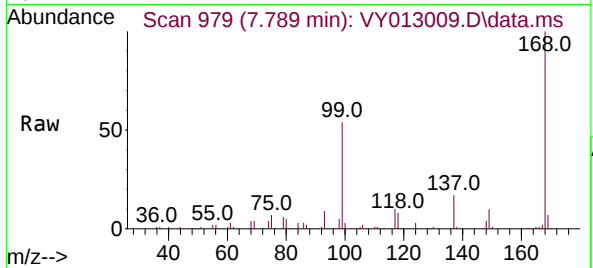




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013009.D  
Acq: 20 Mar 2023 15:40

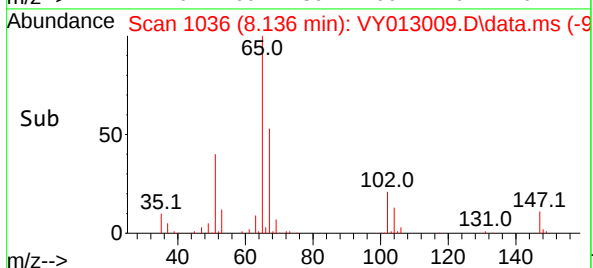
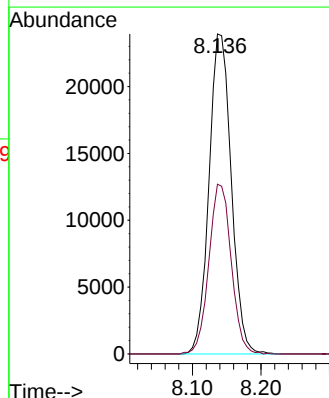
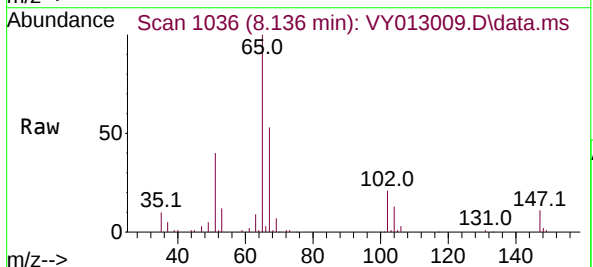
Instrument :  
MSVOA\_Y  
ClientSampleId :  
IRV-1

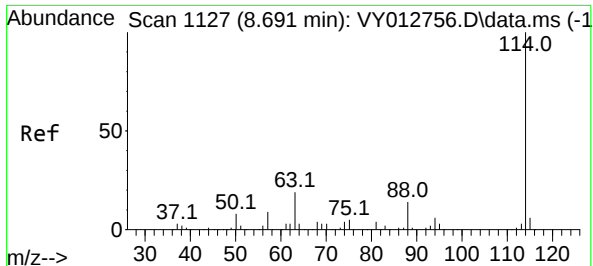
Tgt Ion:168 Resp: 81395  
Ion Ratio Lower Upper  
168 100  
99 54.0 41.7 62.5



#33  
1,2-Dichloroethane-d4  
Concen: 66.886 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.007 min  
Lab File: VY013009.D  
Acq: 20 Mar 2023 15:40

Tgt Ion: 65 Resp: 54054  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013009.D

Acq: 20 Mar 2023 15:40

Instrument :

MSVOA\_Y

ClientSampleId :

IRV-1

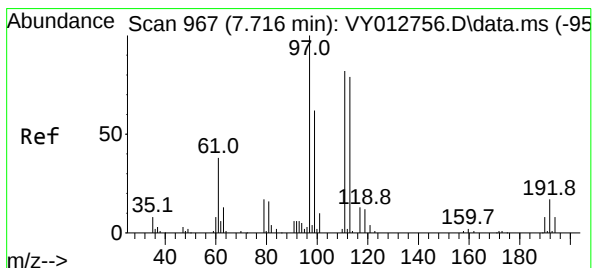
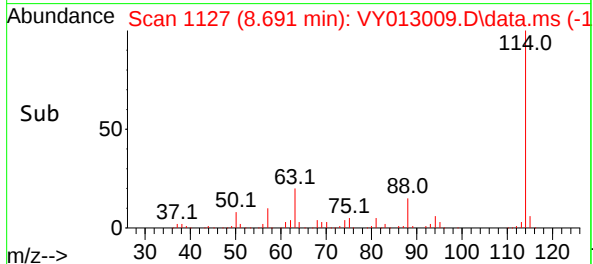
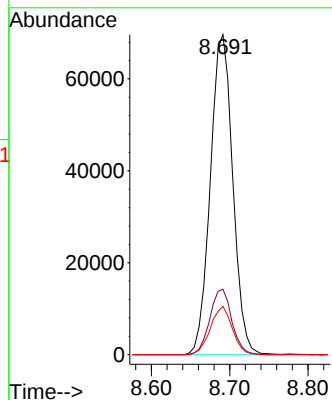
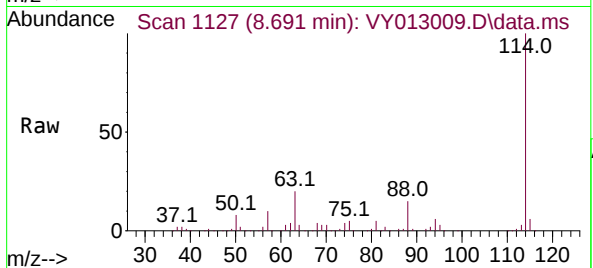
Tgt Ion:114 Resp: 138678

Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.4

88 15.1 0.0 28.6



#35

Dibromofluoromethane

Concen: 56.561 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY013009.D

Acq: 20 Mar 2023 15:40

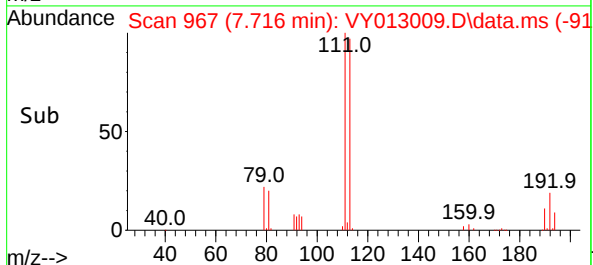
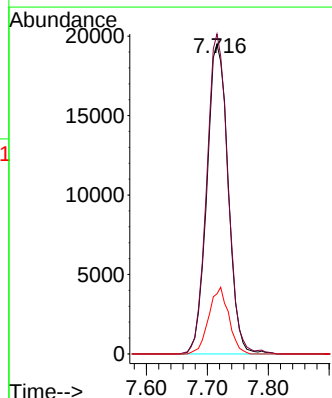
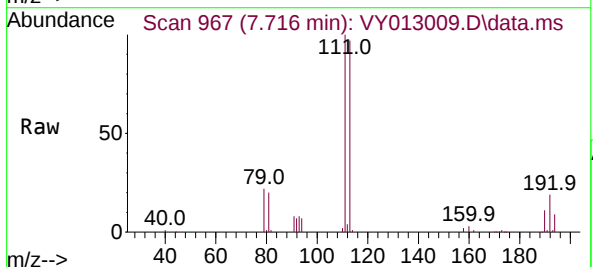
Tgt Ion:113 Resp: 47337

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

192 20.3 16.8 25.2

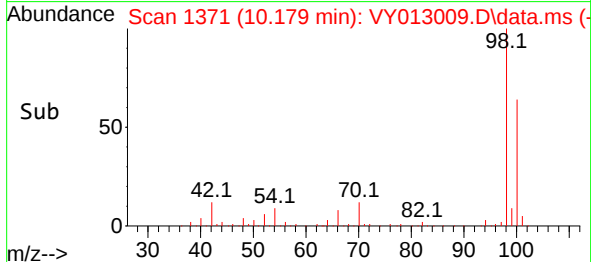
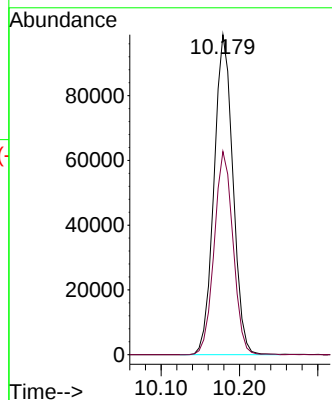
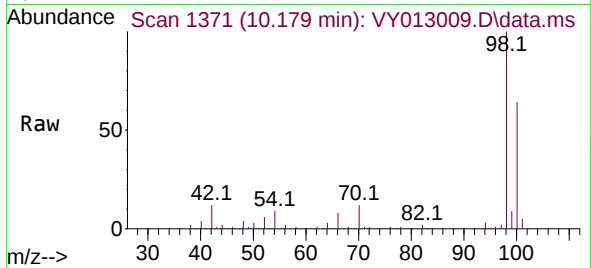




#50  
Toluene-d8  
Concen: 54.208 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY013009.D  
Acq: 20 Mar 2023 15:40

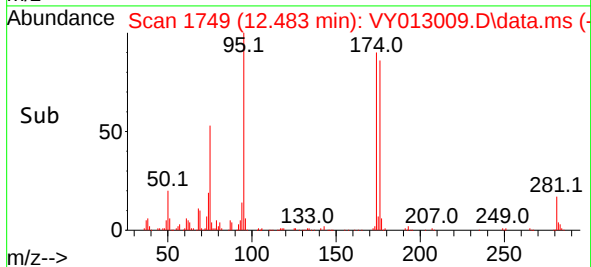
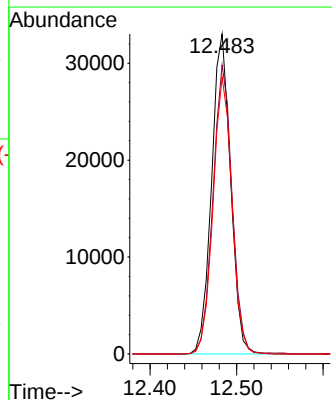
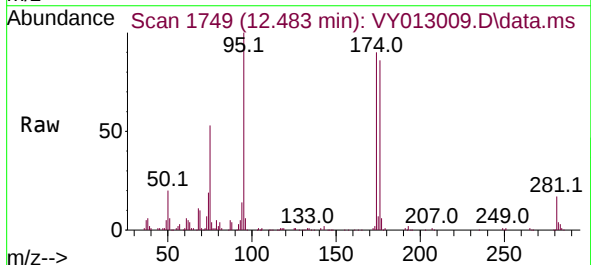
Instrument :  
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IRV-1

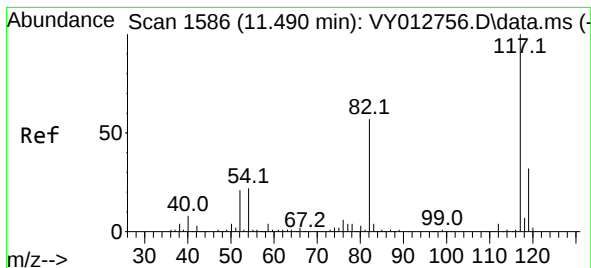
Tgt Ion: 98 Resp: 165854  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.9 76.3



#62  
4-Bromofluorobenzene  
Concen: 48.648 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY013009.D  
Acq: 20 Mar 2023 15:40

Tgt Ion: 95 Resp: 50238  
Ion Ratio Lower Upper  
95 100  
174 91.2 0.0 176.6  
176 86.2 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 117

Delta R.T. 0.000 min

Lab File: VY013009.D

Acq: 20 Mar 2023 15:40

Instrument :

MSVOA\_Y

ClientSampleId :

IRV-1

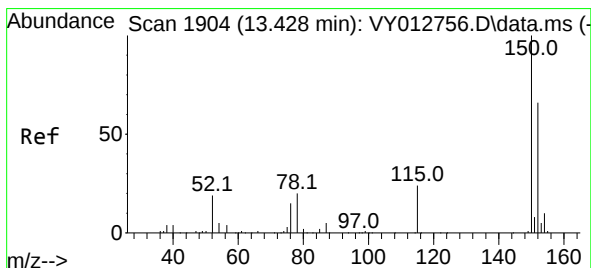
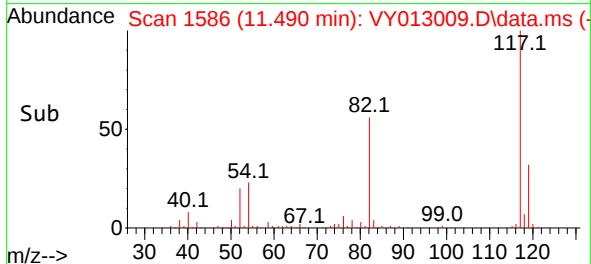
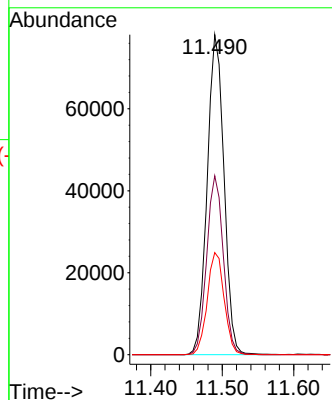
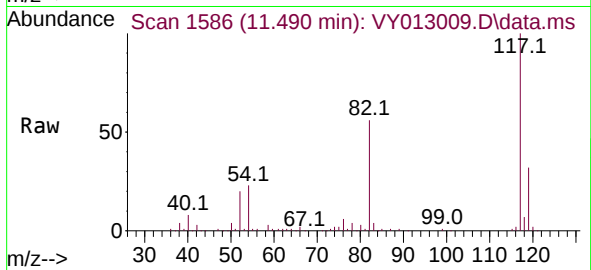
Tgt Ion:117 Resp: 127542

Ion Ratio Lower Upper

117 100

82 55.9 45.4 68.0

119 31.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY013009.D

Acq: 20 Mar 2023 15:40

Tgt Ion:152 Resp: 56508

Ion Ratio Lower Upper

152 100

115 56.2 27.1 81.3

150 155.0 0.0 347.8

