

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050123\  
 Data File : VY013542.D  
 Acq On : 01 May 2023 16:50  
 Operator : KP/MD  
 Sample : 02563-01  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 HR-01-042823

Quant Time: May 01 22:50:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 58598    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 89298    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 82332    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 32326    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 38594    | 60.081   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 120.160% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 31905    | 56.806   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 113.620% |
| 50) Toluene-d8              | 10.179 | 98    | 106120   | 53.113   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 106.220% |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 30501    | 45.282   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 90.560%  |

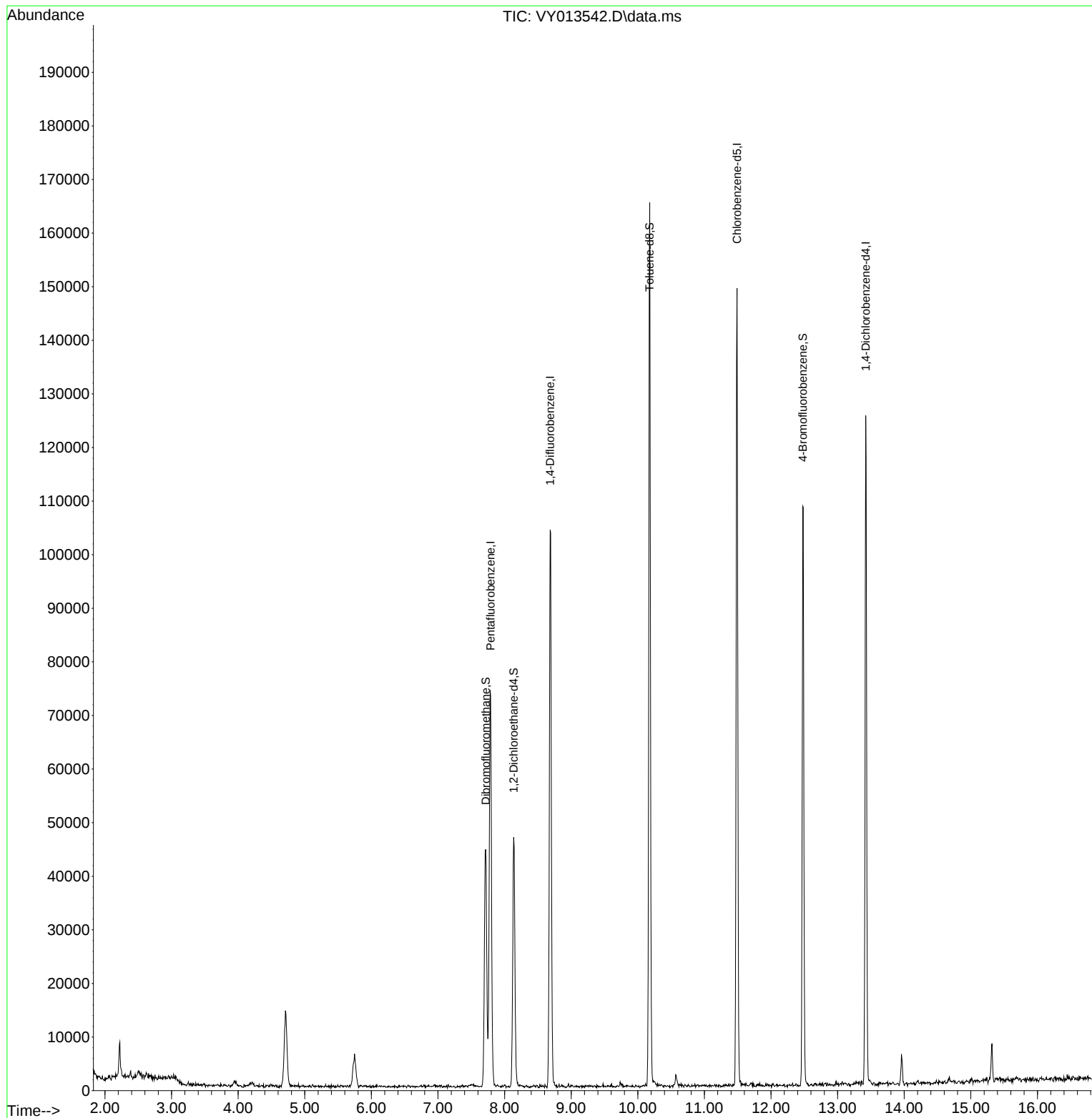
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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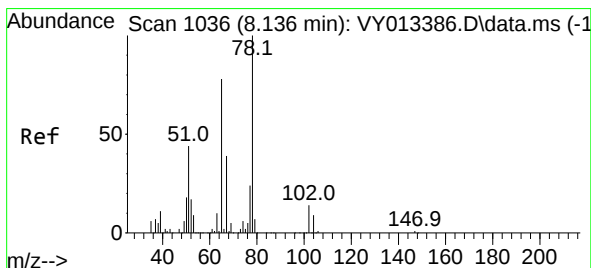
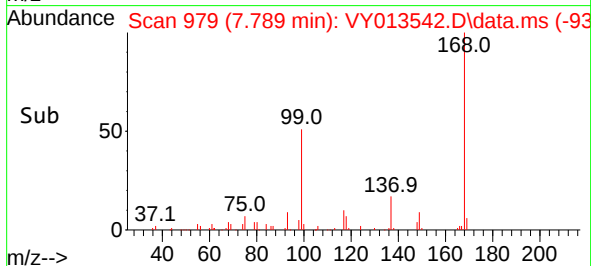
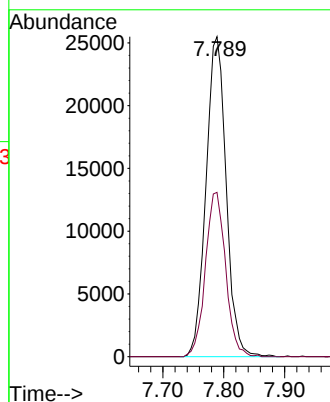
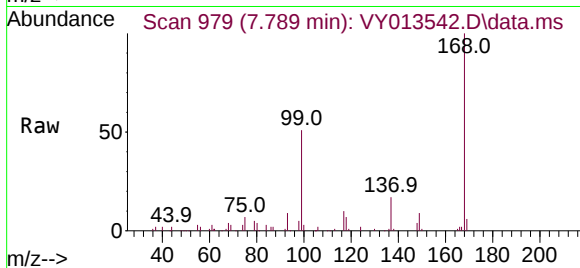




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013542.D  
Acq: 01 May 2023 16:50

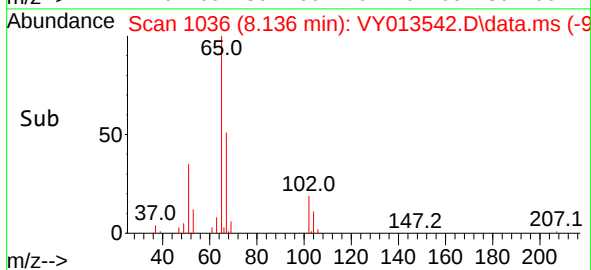
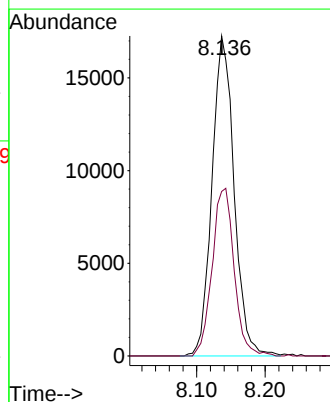
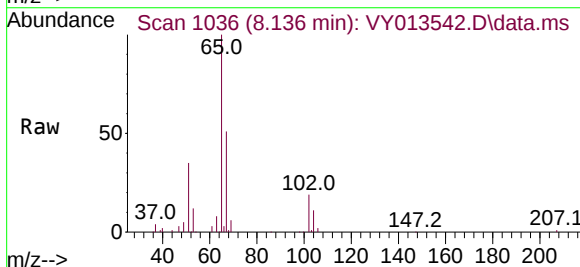
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-01-042823

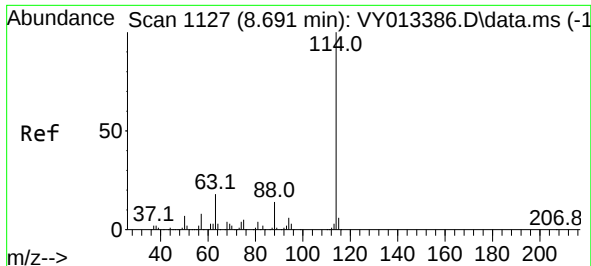
Tgt Ion:168 Resp: 58598  
Ion Ratio Lower Upper  
168 100  
99 51.4 41.8 62.6



#33  
1,2-Dichloroethane-d4  
Concen: 60.081 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VY013542.D  
Acq: 01 May 2023 16:50

Tgt Ion: 65 Resp: 38594  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 103.4

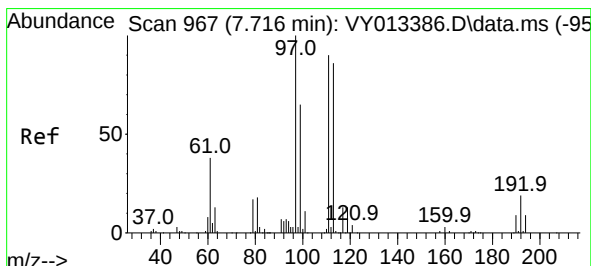
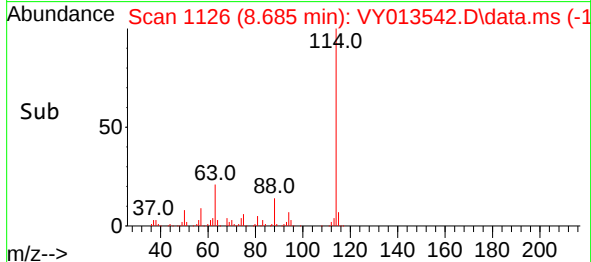
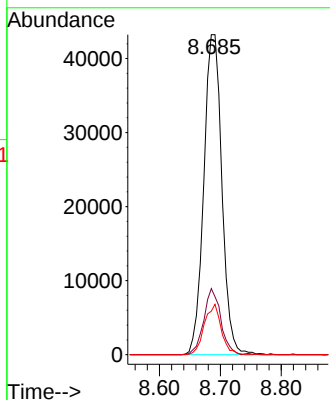
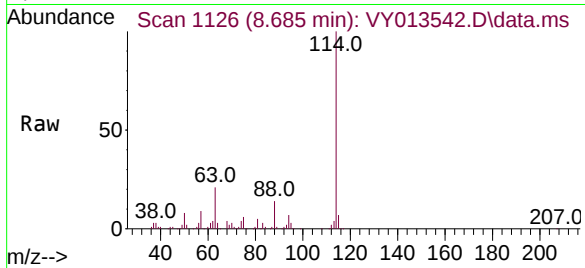




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VY013542.D  
Acq: 01 May 2023 16:50

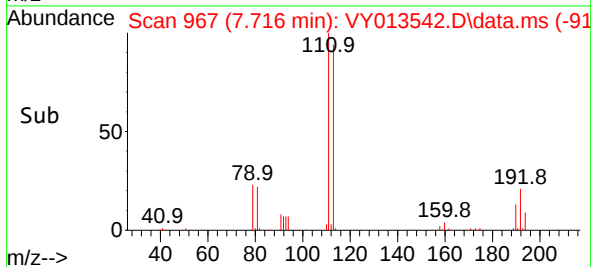
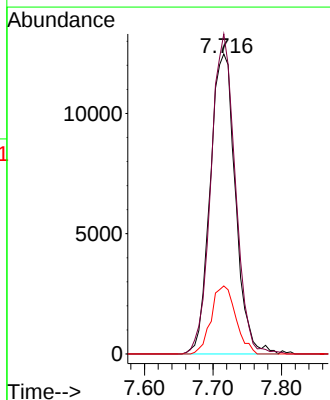
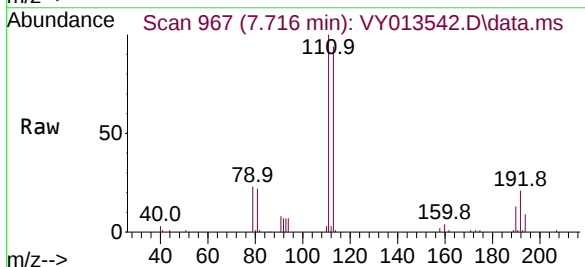
Instrument :  
MSVOA\_Y  
ClientSampleId :  
HR-01-042823

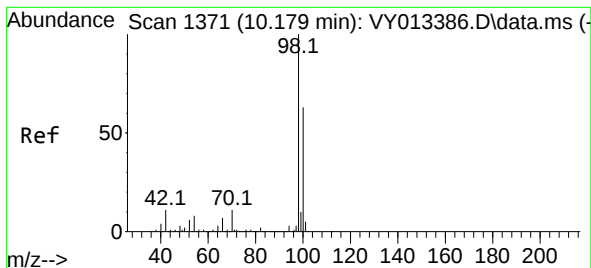
Tgt Ion:114 Resp: 89298  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 36.6  
88 13.6 0.0 28.8



#35  
Dibromofluoromethane  
Concen: 56.806 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY013542.D  
Acq: 01 May 2023 16:50

Tgt Ion:113 Resp: 31905  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.2 123.2  
192 22.0 16.7 25.1





#50

Toluene-d8

Concen: 53.113 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY013542.D

Acq: 01 May 2023 16:50

Instrument :

MSVOA\_Y

ClientSampleId :

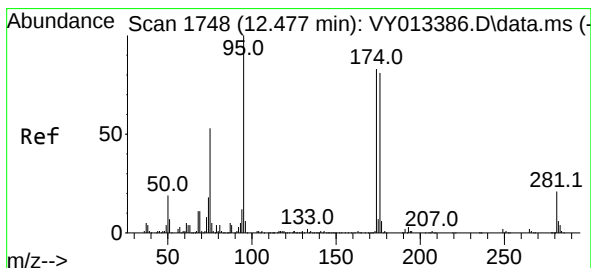
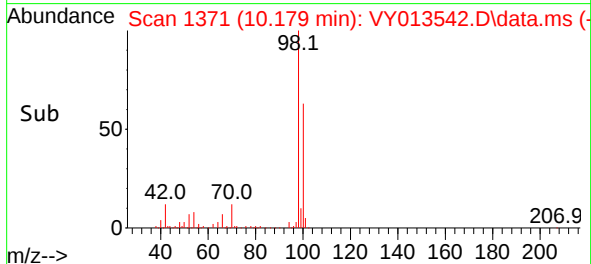
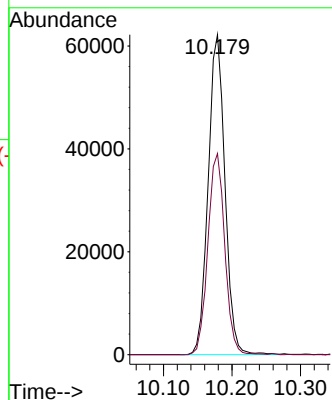
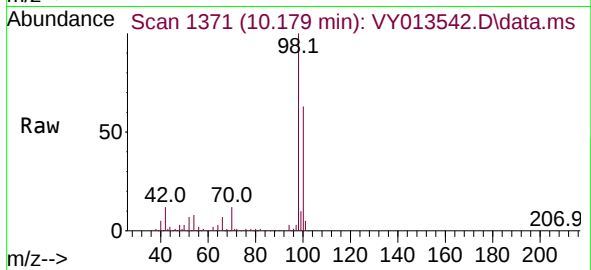
HR-01-042823

Tgt Ion: 98 Resp: 106120

Ion Ratio Lower Upper

98 100

100 63.3 50.5 75.7



#62

4-Bromofluorobenzene

Concen: 45.282 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY013542.D

Acq: 01 May 2023 16:50

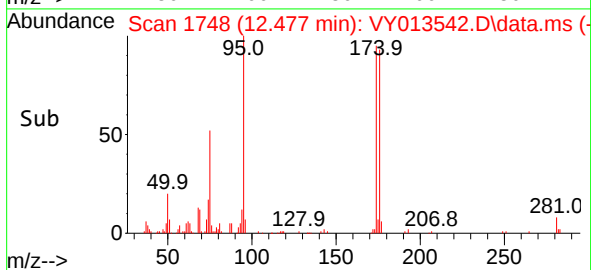
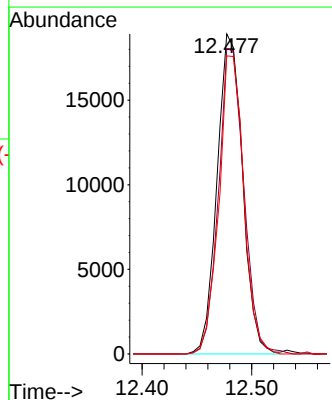
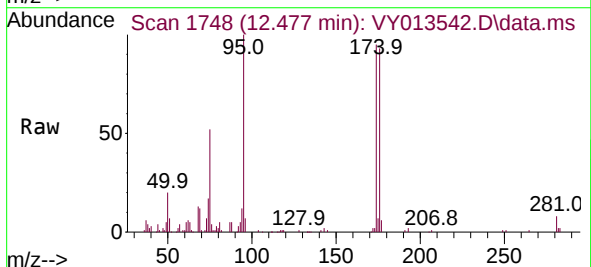
Tgt Ion: 95 Resp: 30501

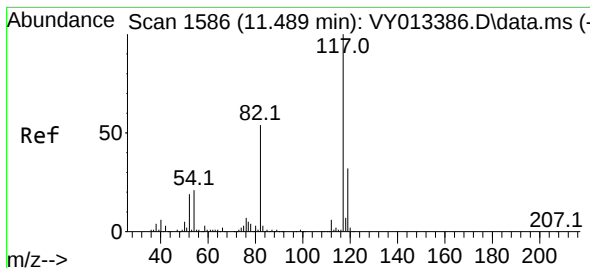
Ion Ratio Lower Upper

95 100

174 95.1 0.0 182.0

176 91.0 0.0 175.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013542.D

Acq: 01 May 2023 16:50

Instrument :

MSVOA\_Y

ClientSampleId :

HR-01-042823

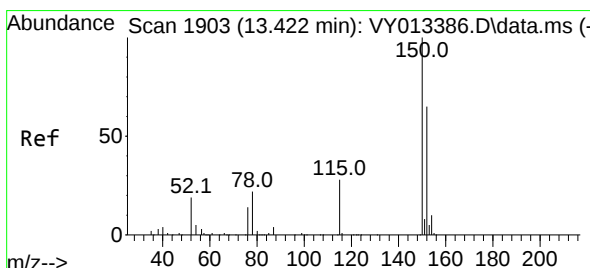
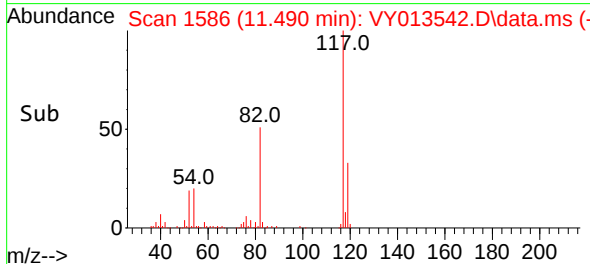
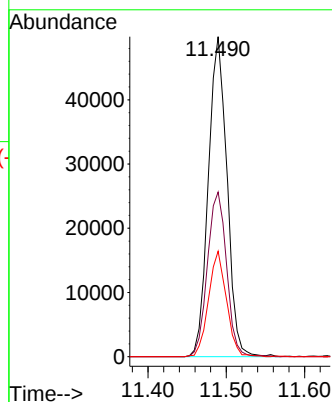
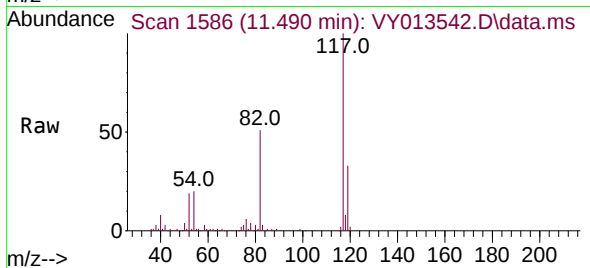
Tgt Ion:117 Resp: 82332

Ion Ratio Lower Upper

117 100

82 51.4 43.0 64.6

119 32.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY013542.D

Acq: 01 May 2023 16:50

Tgt Ion:152 Resp: 32326

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

150 161.6 0.0 352.0

