

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY043025\  
 Data File : VY022088.D  
 Acq On : 30 Apr 2025 17:29  
 Operator : SY/MD  
 Sample : Q1883-13  
 Misc : 14.29g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-VSL-18-042325

Quant Time: May 01 01:38:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 370218   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.609  | 114  | 709340   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.413 | 117  | 640665   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 256467   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.054  | 65    | 184332   | 53.904   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 107.800% |
| 35) Dibromofluoromethane    | 7.628  | 113   | 234145   | 49.964   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 99.920%  |
| 50) Toluene-d8              | 10.103 | 98    | 851694   | 48.208   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 96.420%  |
| 62) 4-Bromofluorobenzene    | 12.407 | 95    | 245148   | 41.219   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 82.440%  |

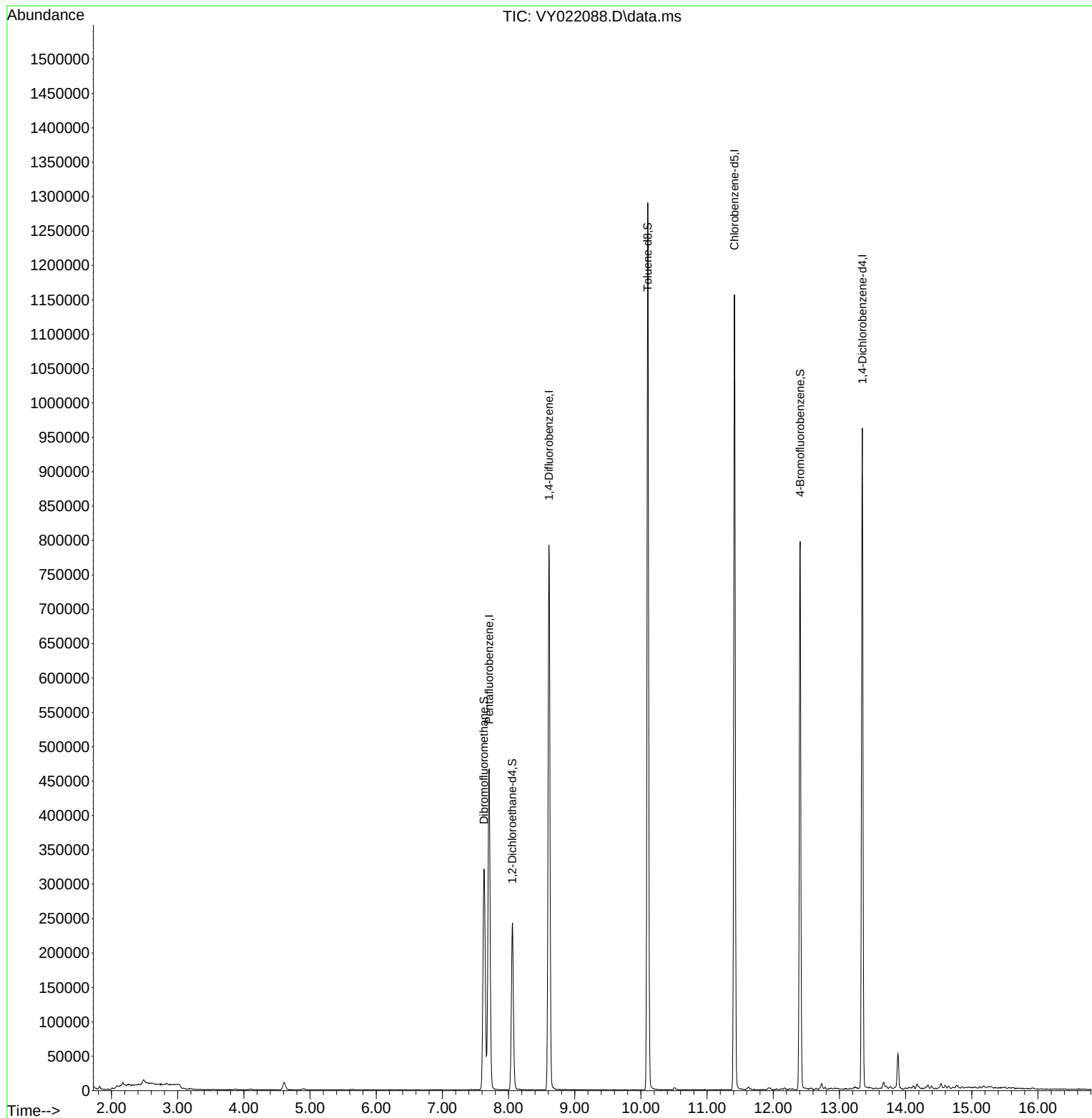
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

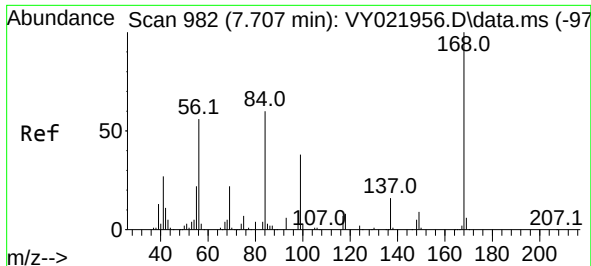
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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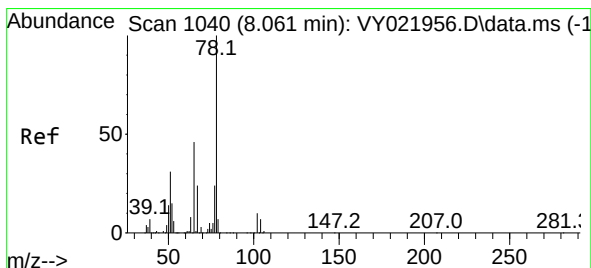
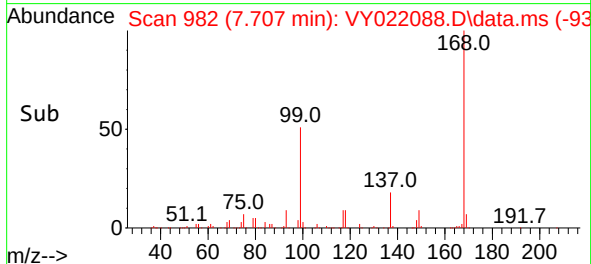
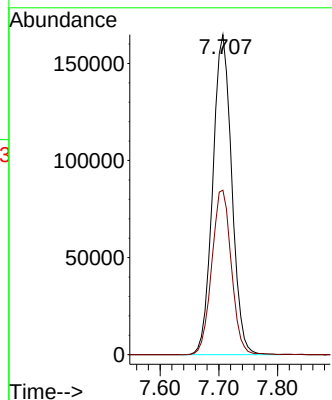
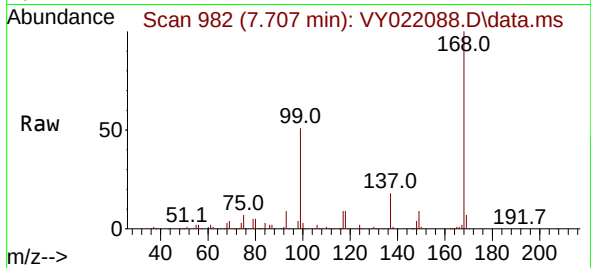




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY022088.D  
Acq: 30 Apr 2025 17:29

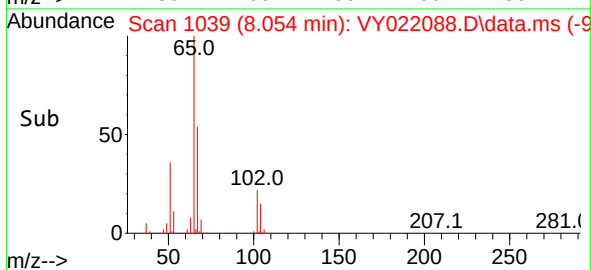
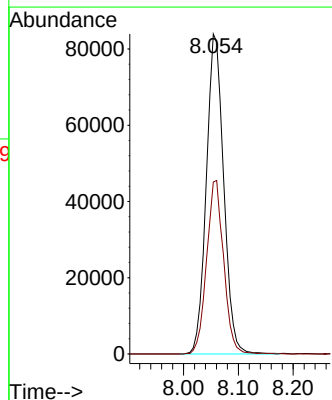
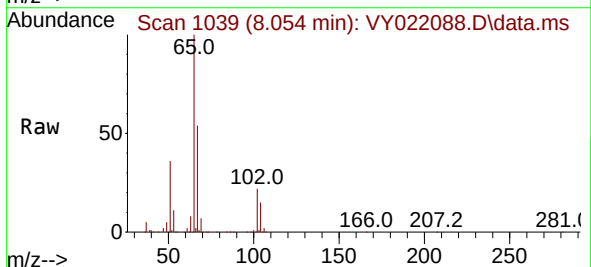
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-VSL-18-042325

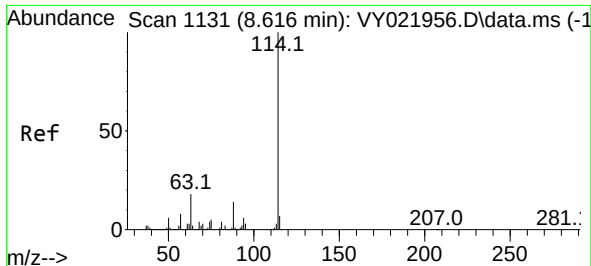
Tgt Ion:168 Resp: 370218  
Ion Ratio Lower Upper  
168 100  
99 51.4 43.1 64.7



#33  
1,2-Dichloroethane-d4  
Concen: 53.904 ug/l  
RT: 8.054 min Scan# 1039  
Delta R.T. -0.007 min  
Lab File: VY022088.D  
Acq: 30 Apr 2025 17:29

Tgt Ion: 65 Resp: 184332  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.007 min

Lab File: VY022088.D

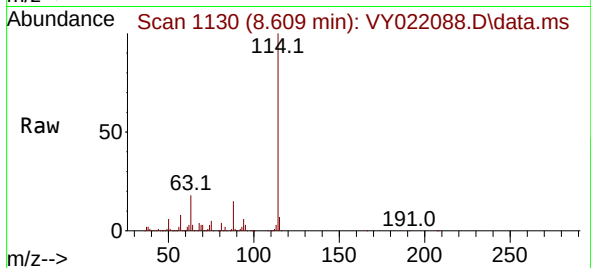
Acq: 30 Apr 2025 17:29

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-VSL-18-042325



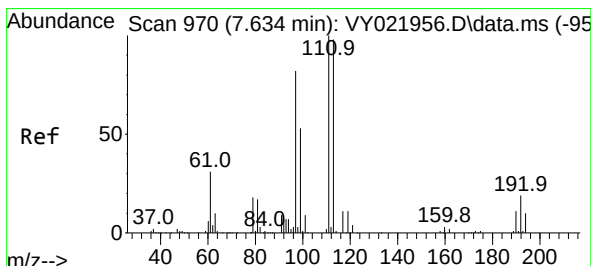
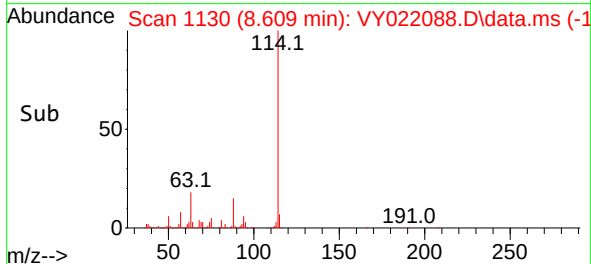
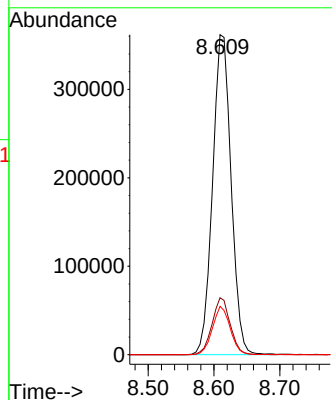
Tgt Ion:114 Resp: 709340

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.4

88 15.1 0.0 28.2



#35

Dibromofluoromethane

Concen: 49.964 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.007 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

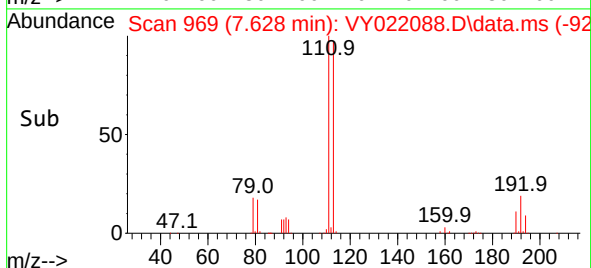
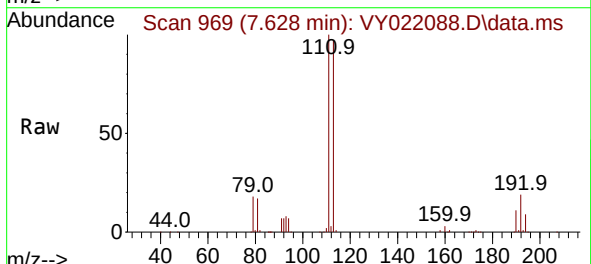
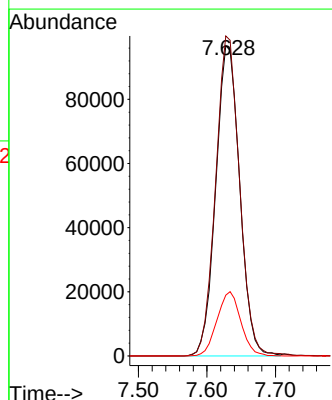
Tgt Ion:113 Resp: 234145

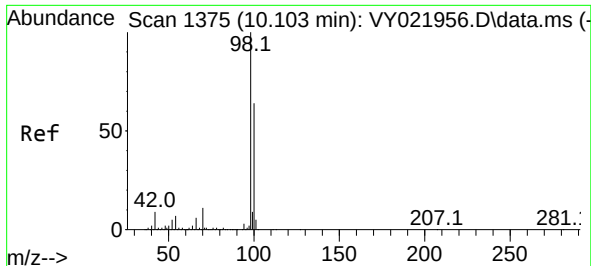
Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

192 20.6 15.6 23.4

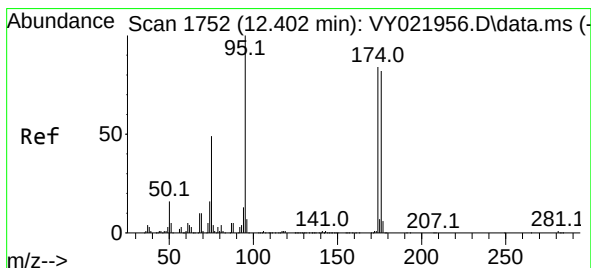
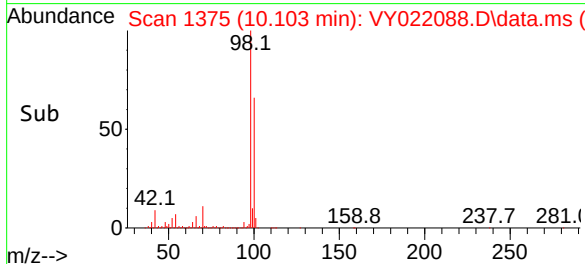
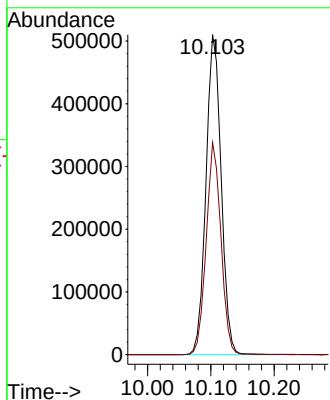
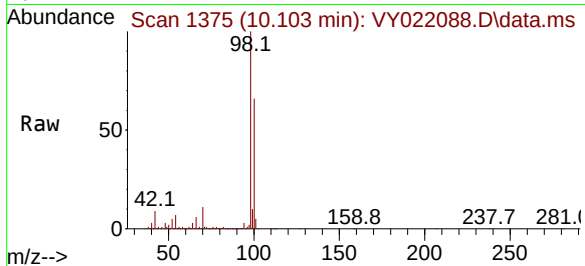




#50  
Toluene-d8  
Concen: 48.208 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY022088.D  
Acq: 30 Apr 2025 17:29

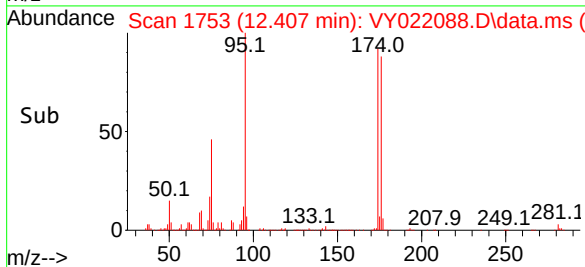
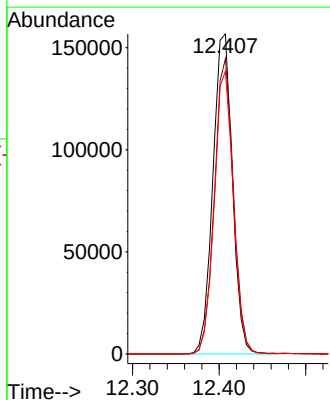
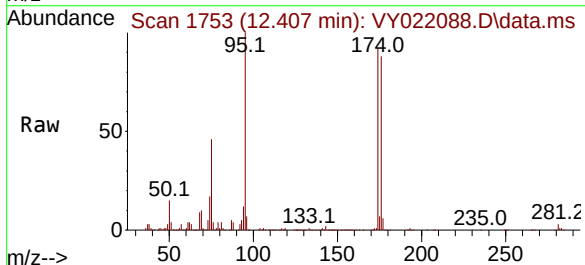
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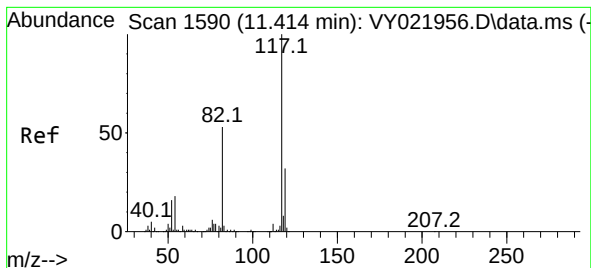
Tgt Ion: 98 Resp: 851694  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.6 77.4



#62  
4-Bromofluorobenzene  
Concen: 41.219 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. 0.006 min  
Lab File: VY022088.D  
Acq: 30 Apr 2025 17:29

Tgt Ion: 95 Resp: 245148  
Ion Ratio Lower Upper  
95 100  
174 90.3 0.0 179.0  
176 86.9 0.0 171.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.413 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-VSL-18-042325

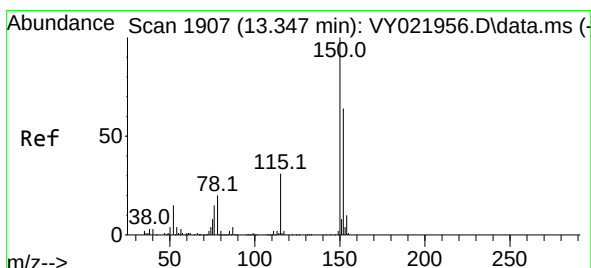
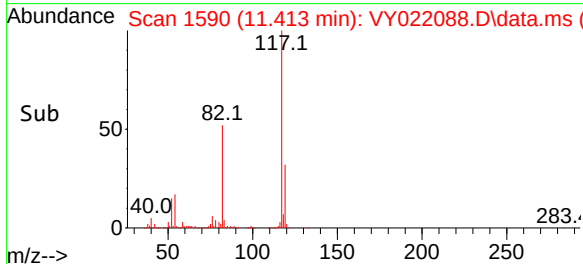
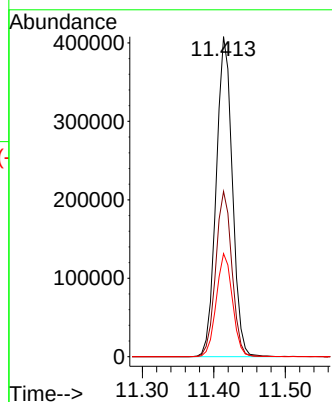
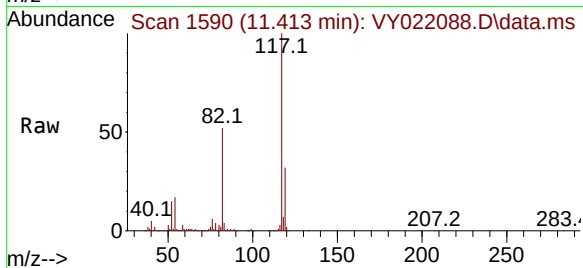
Tgt Ion:117 Resp: 640665

Ion Ratio Lower Upper

117 100

82 51.7 42.1 63.1

119 32.2 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022088.D

Acq: 30 Apr 2025 17:29

Tgt Ion:152 Resp: 256467

Ion Ratio Lower Upper

152 100

115 56.9 28.0 84.0

150 155.9 0.0 345.6

