

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051525\  
 Data File : VY022268.D  
 Acq On : 15 May 2025 16:46  
 Operator : SY/MD  
 Sample : Q1984-09  
 Misc : 2.60g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OU4-TS-25-050725

Quant Time: May 16 01:57:44 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.707  | 168  | 318227   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.616  | 114  | 548916   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.414 | 117  | 389058   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152  | 103883   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 160138   | 46.044   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 92.080%  |
| 35) Dibromofluoromethane    | 7.634  | 113   | 164082   | 50.082   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 100.160% |
| 50) Toluene-d8              | 10.103 | 98    | 642684   | 47.897   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 95.800%  |
| 62) 4-Bromofluorobenzene    | 12.401 | 95    | 134320   | 31.582   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 63.160%  |

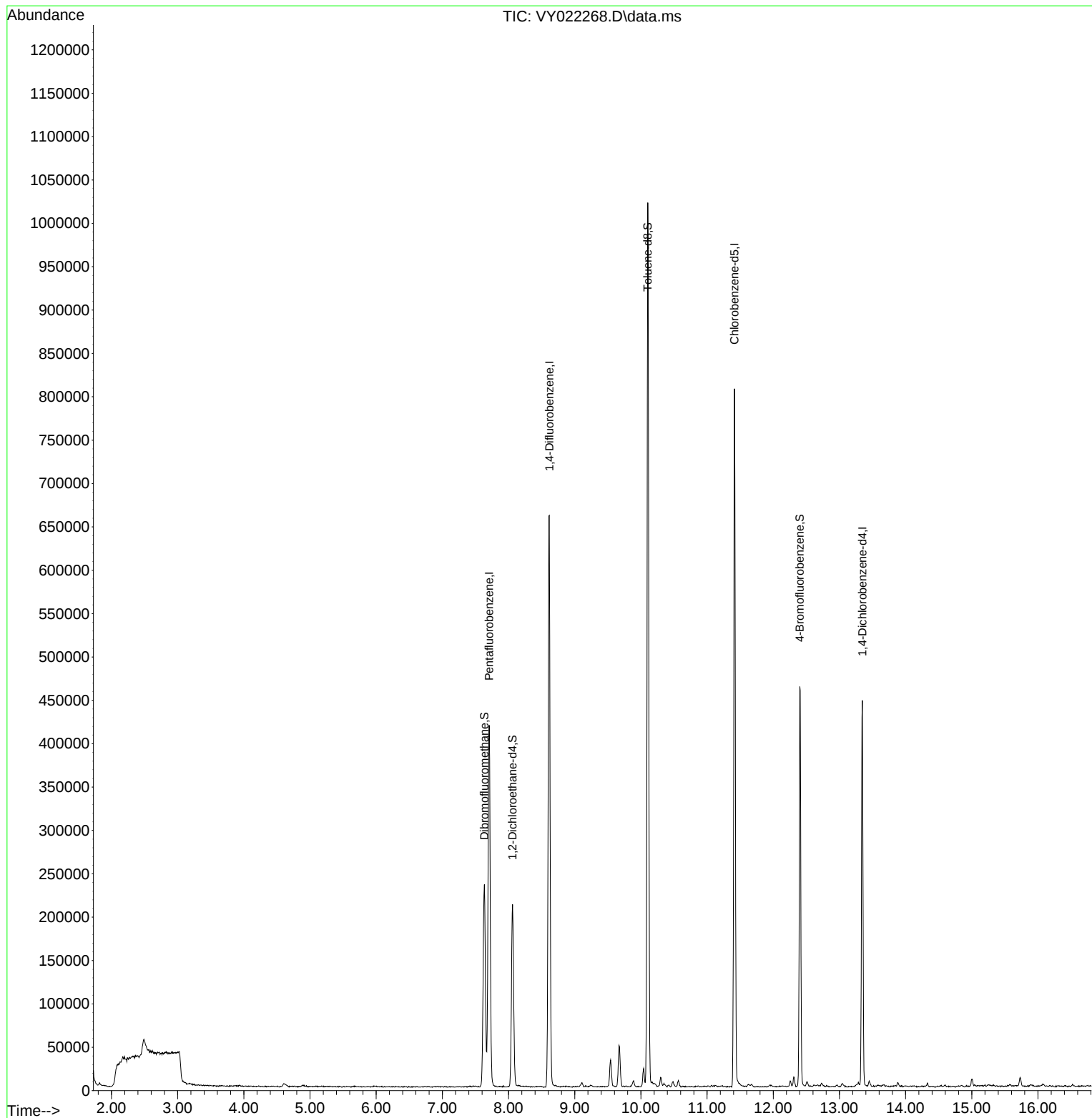
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

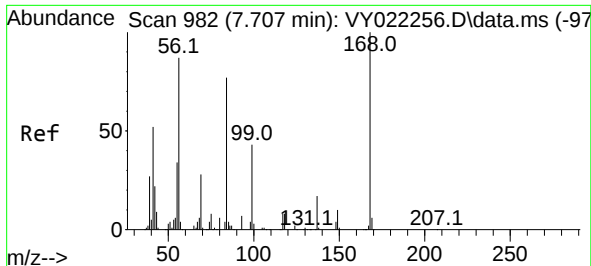
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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OU4-TS-25-050725

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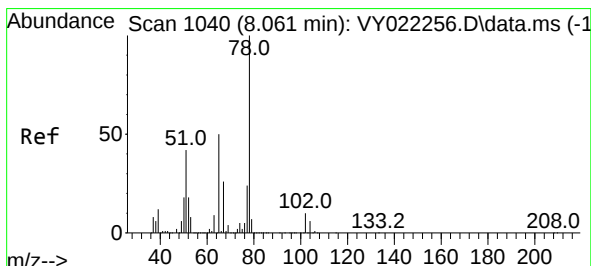
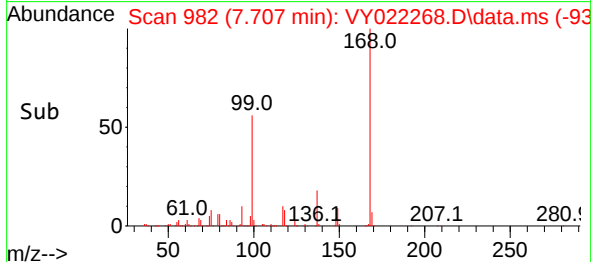
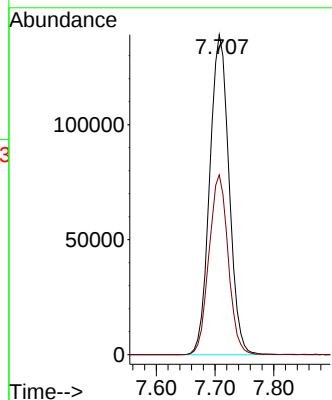
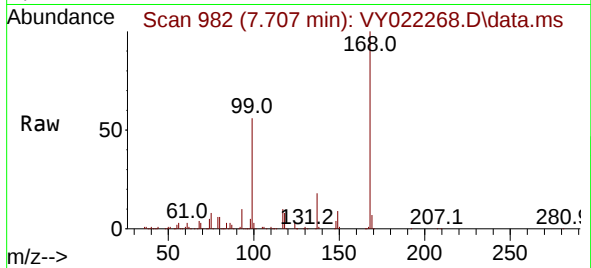




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.000 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

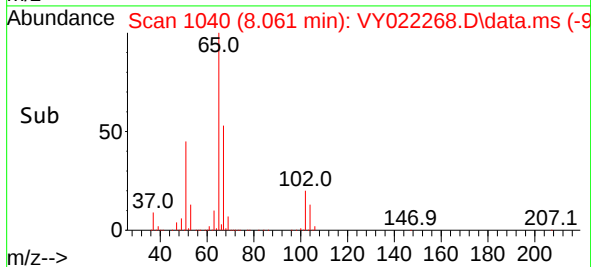
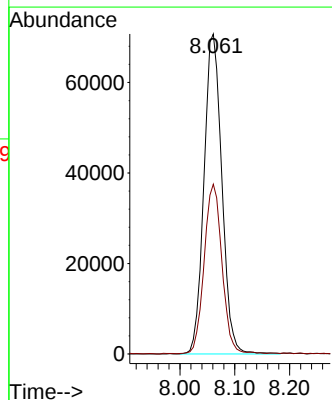
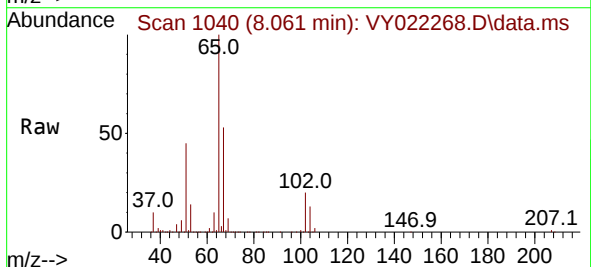
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-25-050725

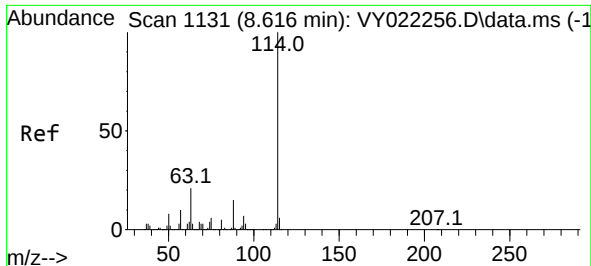
Tgt Ion:168 Resp: 318227  
Ion Ratio Lower Upper  
168 100  
99 56.2 44.2 66.4



#33  
1,2-Dichloroethane-d4  
Concen: 46.044 ug/l  
RT: 8.061 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

Tgt Ion: 65 Resp: 160138  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022268.D

Acq: 15 May 2025 16:46

Instrument :

MSVOA\_Y

ClientSampleId :

OU4-TS-25-050725

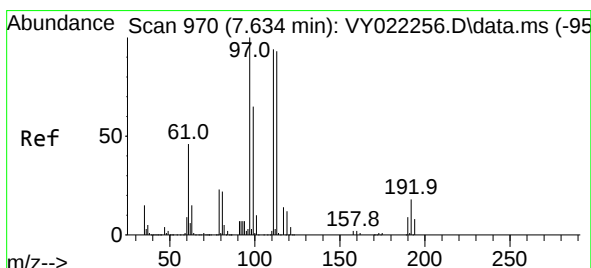
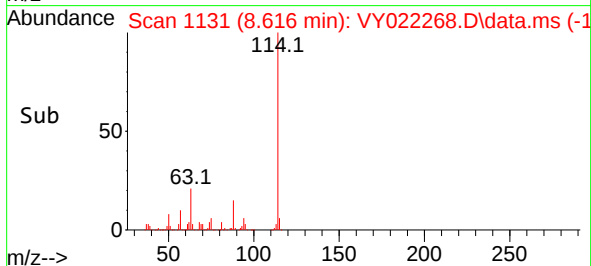
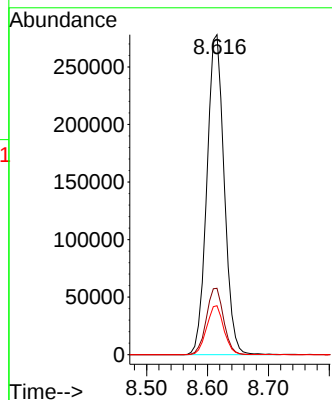
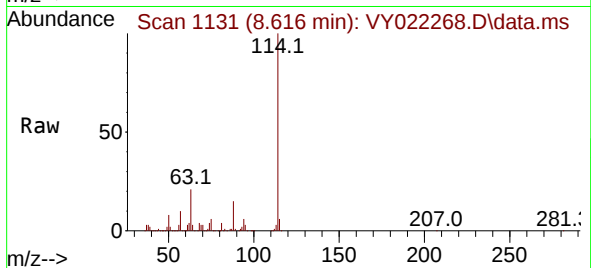
Tgt Ion:114 Resp: 548916

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.0

88 15.3 0.0 29.4



#35

Dibromofluoromethane

Concen: 50.082 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022268.D

Acq: 15 May 2025 16:46

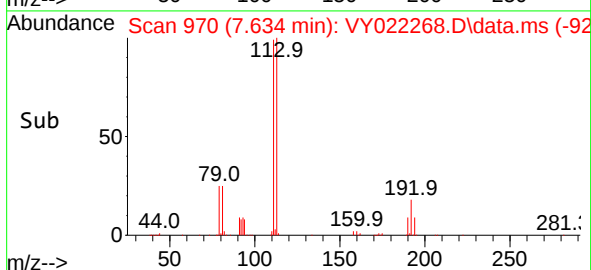
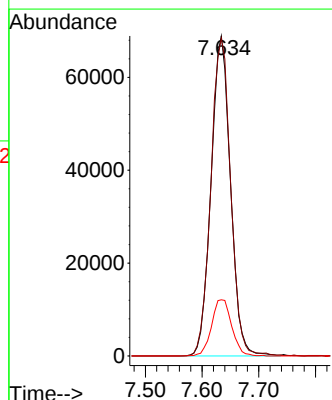
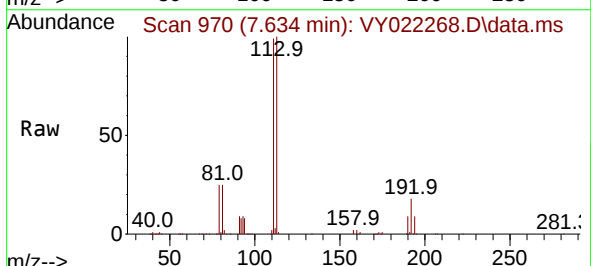
Tgt Ion:113 Resp: 164082

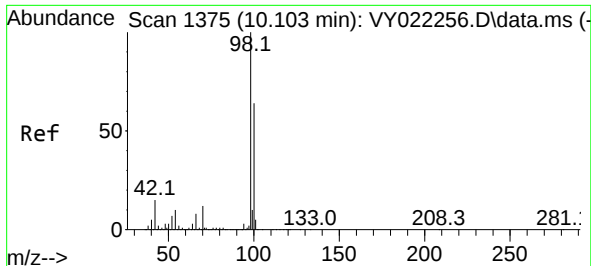
Ion Ratio Lower Upper

113 100

111 101.2 82.6 123.8

192 18.2 15.2 22.8

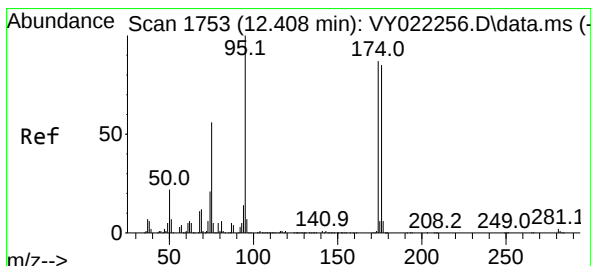
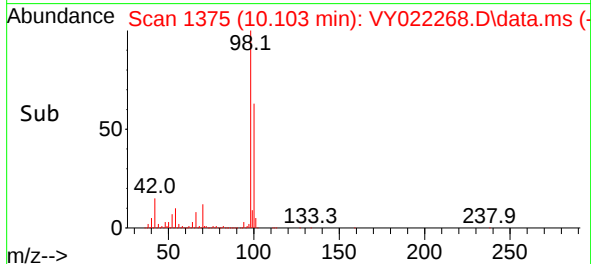
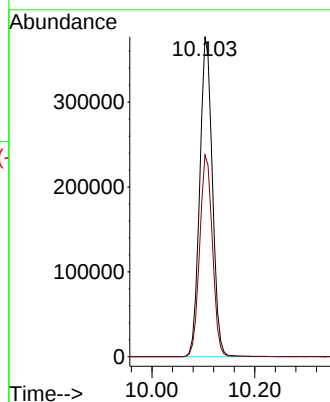
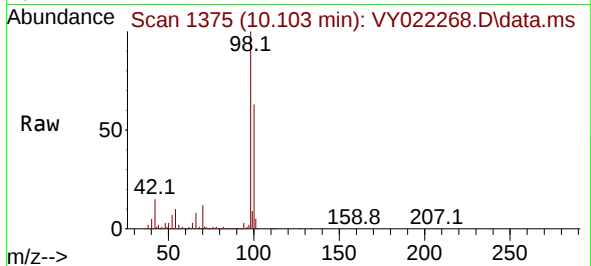




#50  
Toluene-d8  
Concen: 47.897 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

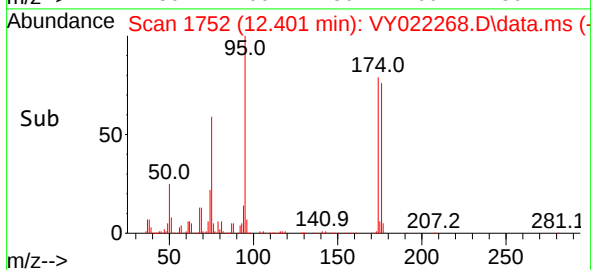
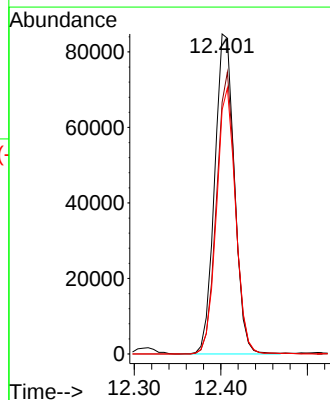
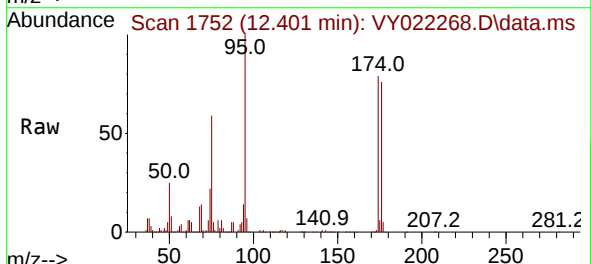
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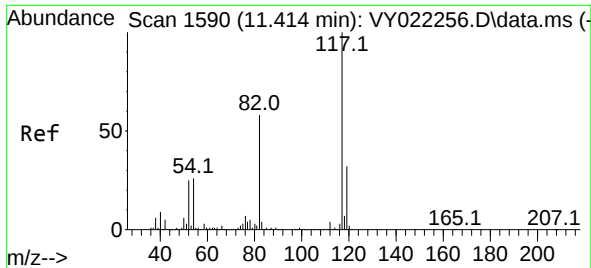
Tgt Ion: 98 Resp: 642684  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.8 77.8



#62  
4-Bromofluorobenzene  
Concen: 31.582 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

Tgt Ion: 95 Resp: 134320  
Ion Ratio Lower Upper  
95 100  
174 84.0 0.0 166.8  
176 80.5 0.0 160.8

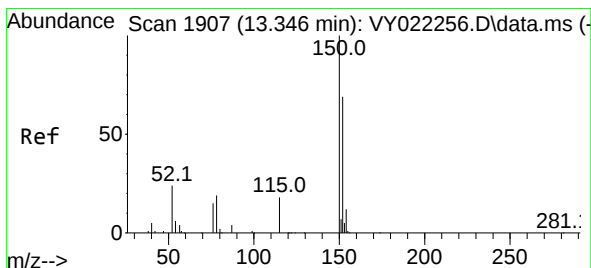
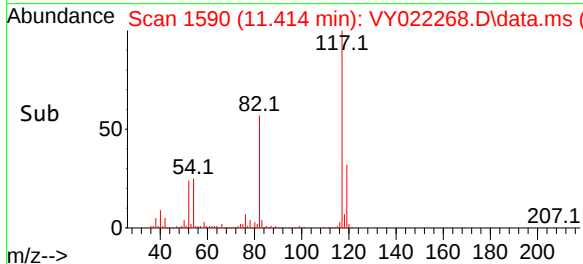
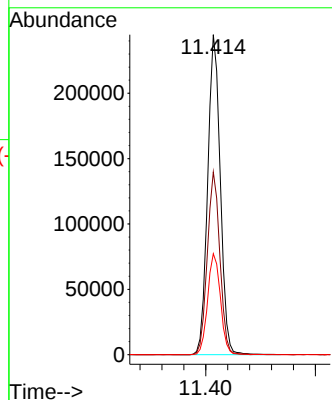
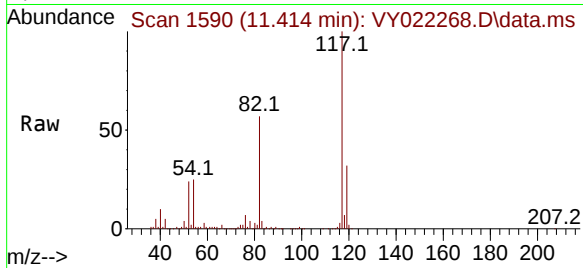




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

Instrument :  
MSVOA\_Y  
ClientSampleId :  
OU4-TS-25-050725

Tgt Ion:117 Resp: 389058  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.6 70.0  
119 31.6 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. -0.000 min  
Lab File: VY022268.D  
Acq: 15 May 2025 16:46

Tgt Ion:152 Resp: 103883  
Ion Ratio Lower Upper  
152 100  
115 57.4 29.4 88.2  
150 155.9 0.0 353.8

