

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051325\  
 Data File : VD080311.D  
 Acq On : 13 May 2025 19:43  
 Operator : RP/MD  
 Sample : Q2004-07  
 Misc : 3.42G/10ml/MSVOA\_D/SOIL/A  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 205510

Quant Time: May 14 01:36:08 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 07 08:57:11 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.876  | 168  | 51451    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.776  | 114  | 152566   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.582 | 117  | 168199   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.517 | 152  | 81531    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.229  | 65    | 44687    | 67.163   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 134.320% |
| 35) Dibromofluoromethane    | 7.806  | 113   | 49996    | 48.893   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 97.780%  |
| 50) Toluene-d8              | 10.270 | 98    | 236928   | 58.806   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 117.620% |
| 62) 4-Bromofluorobenzene    | 12.570 | 95    | 65833    | 50.908   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 101.820% |

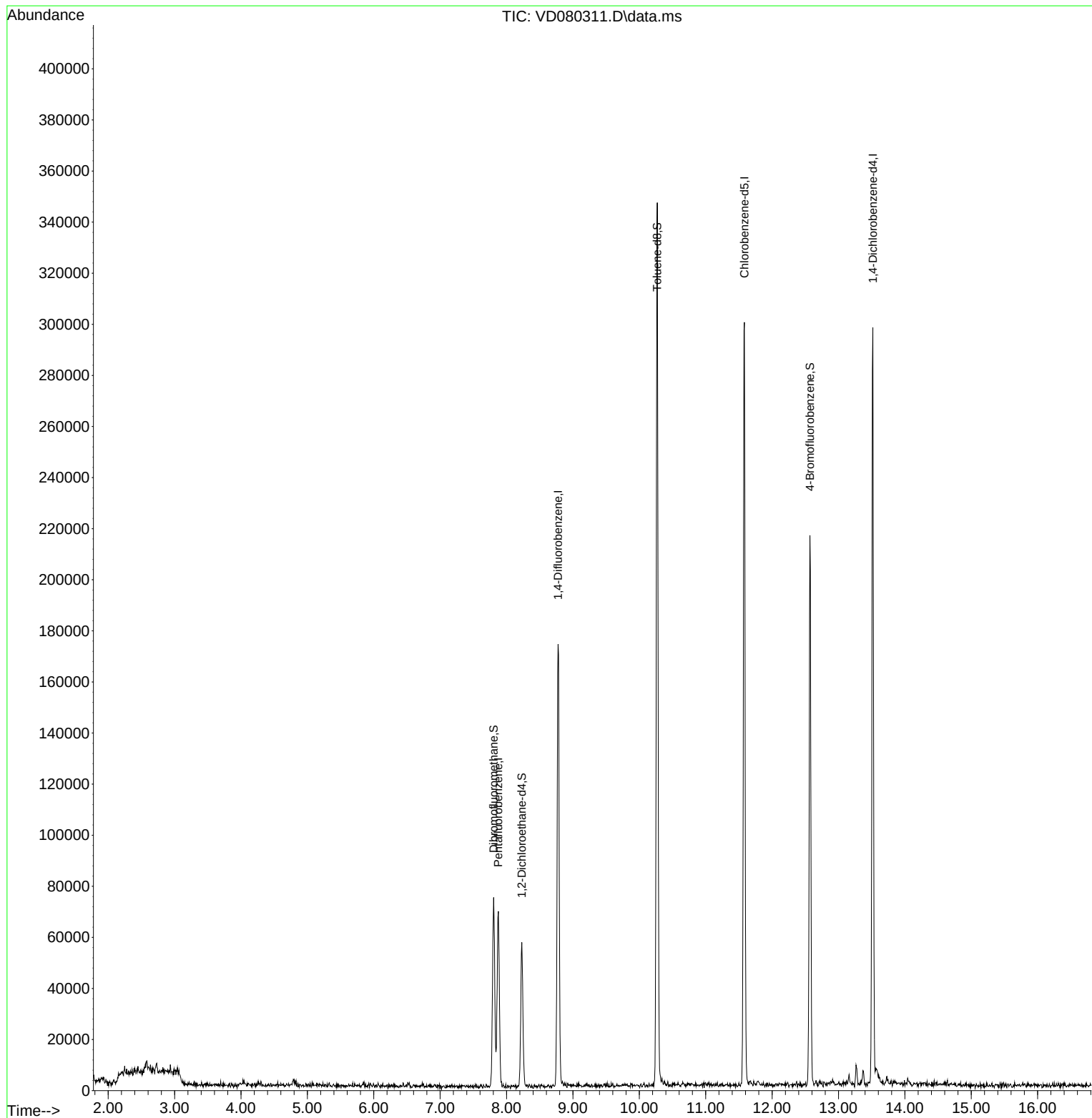
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

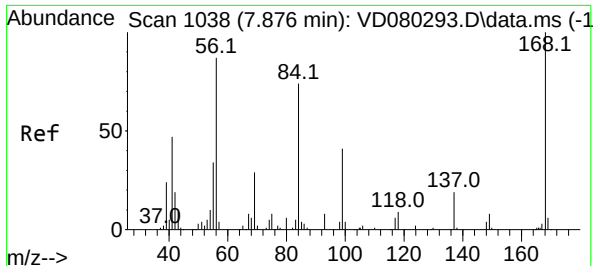
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 07 08:57:11 2025  
Response via : Initial Calibration

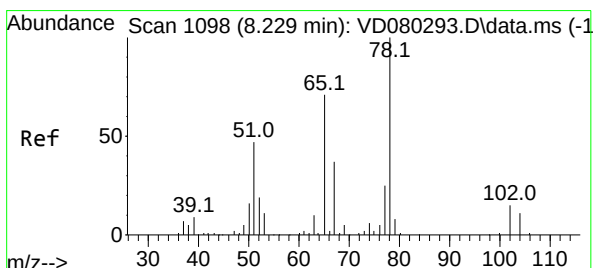
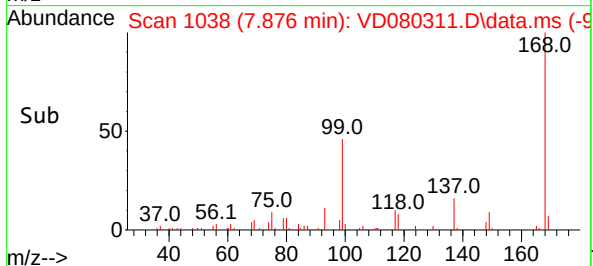
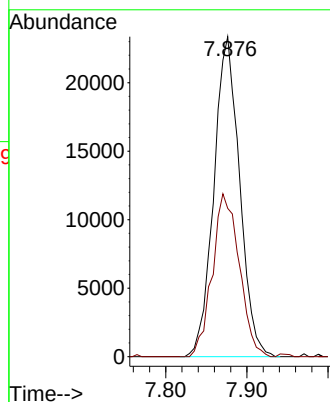
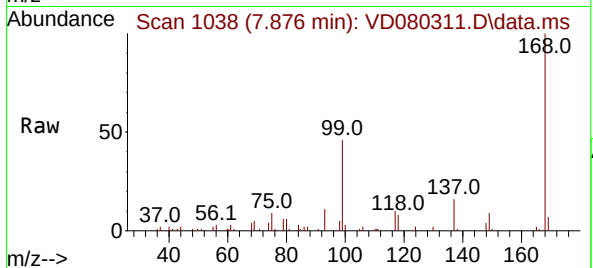




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.876 min Scan# 1038  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

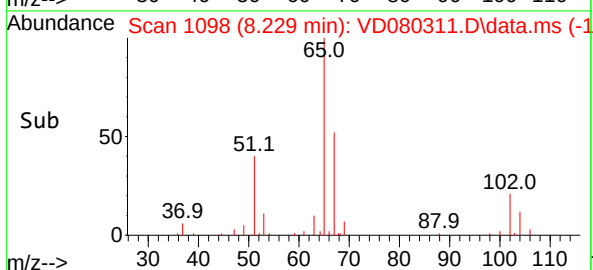
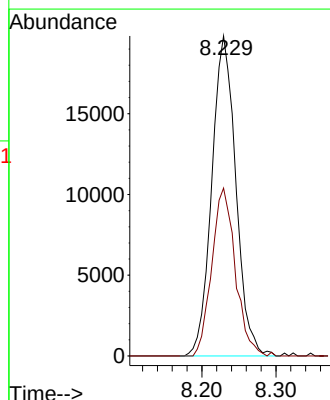
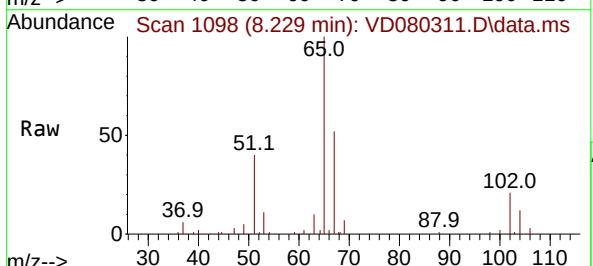
Instrument :  
MSVOA\_D  
ClientSampleId :  
205510

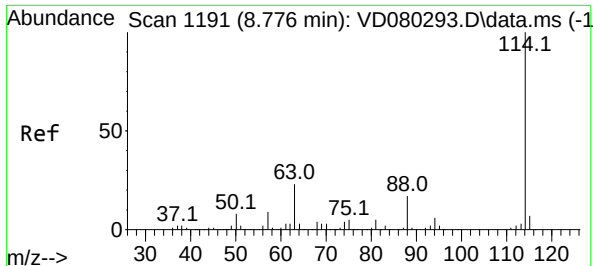
Tgt Ion:168 Resp: 51451  
Ion Ratio Lower Upper  
168 100  
99 46.4 46.0 69.0



#33  
1,2-Dichloroethane-d4  
Concen: 67.163 ug/l  
RT: 8.229 min Scan# 1098  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

Tgt Ion: 65 Resp: 44687  
Ion Ratio Lower Upper  
65 100  
67 51.2 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080311.D

Acq: 13 May 2025 19:43

Instrument :

MSVOA\_D

ClientSampleId :

205510

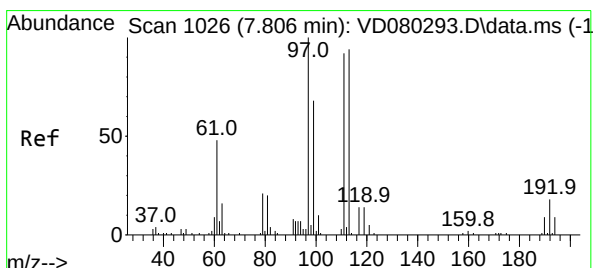
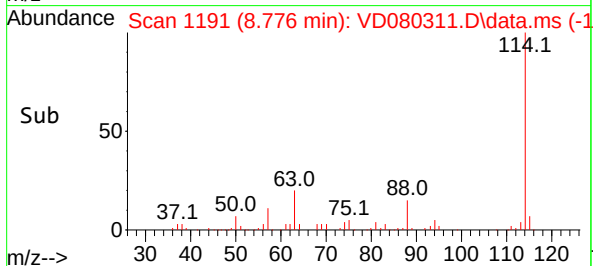
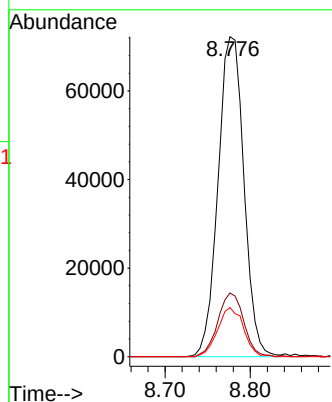
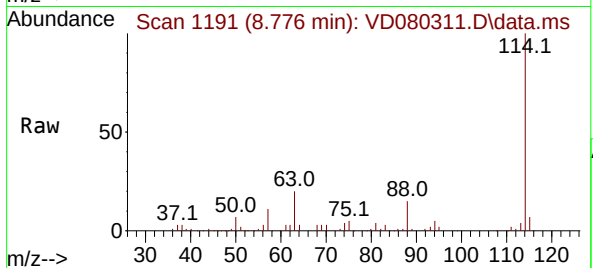
Tgt Ion:114 Resp: 152566

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.8

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.893 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080311.D

Acq: 13 May 2025 19:43

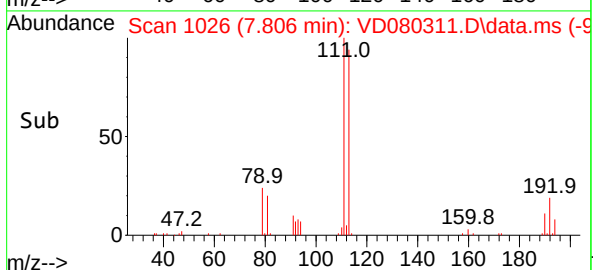
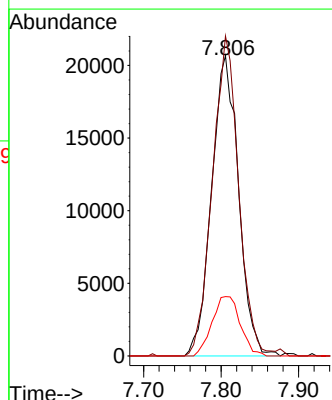
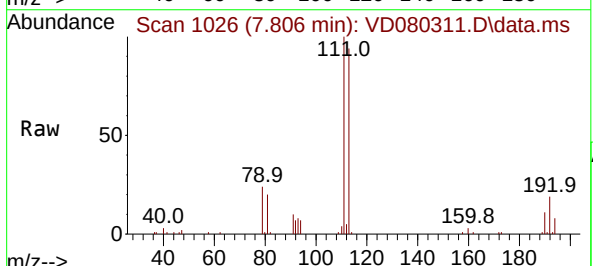
Tgt Ion:113 Resp: 49996

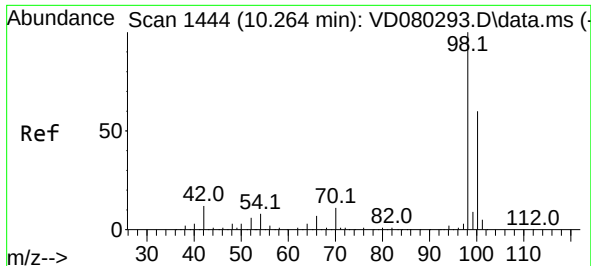
Ion Ratio Lower Upper

113 100

111 103.2 82.5 123.7

192 20.7 16.6 25.0

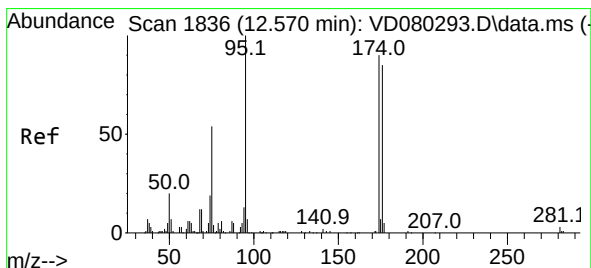
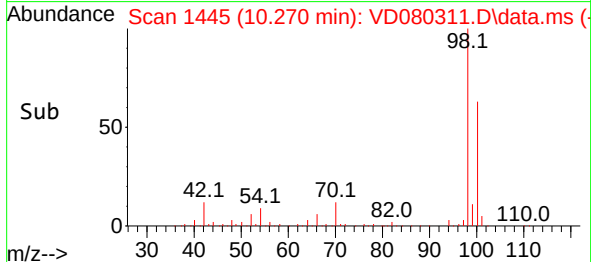
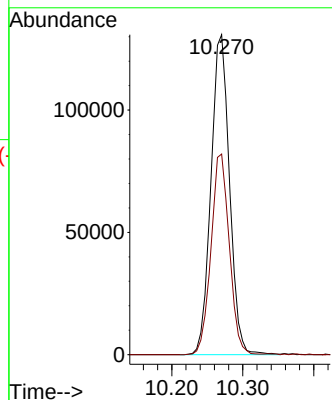
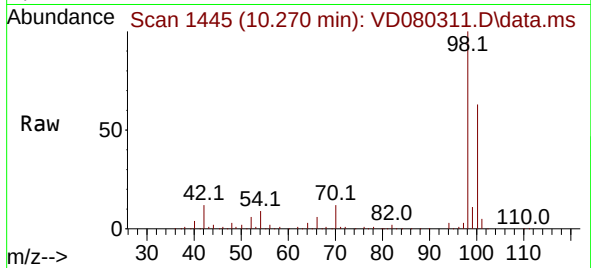




#50  
Toluene-d8  
Concen: 58.806 ug/l  
RT: 10.270 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

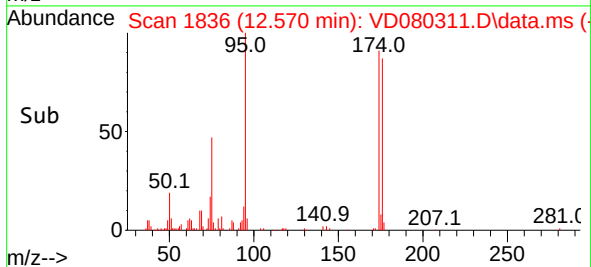
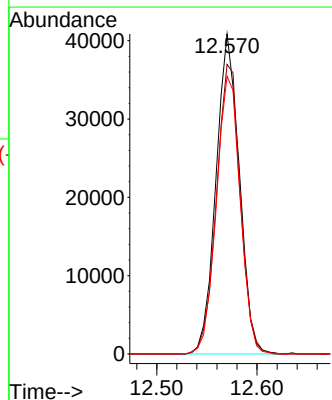
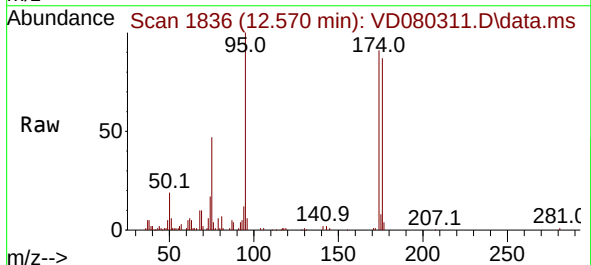
Instrument :  
MSVOA\_D  
ClientSampleId :  
205510

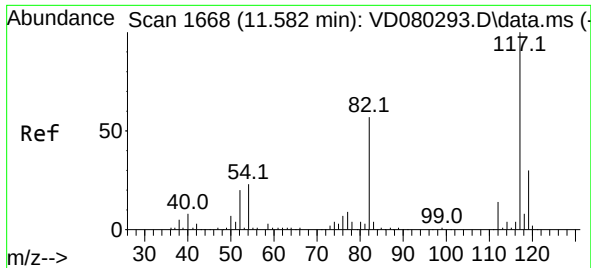
Tgt Ion: 98 Resp: 236928  
Ion Ratio Lower Upper  
98 100  
100 62.0 50.2 75.4



#62  
4-Bromofluorobenzene  
Concen: 50.908 ug/l  
RT: 12.570 min Scan# 1836  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

Tgt Ion: 95 Resp: 65833  
Ion Ratio Lower Upper  
95 100  
174 93.0 0.0 173.4  
176 88.9 0.0 166.6

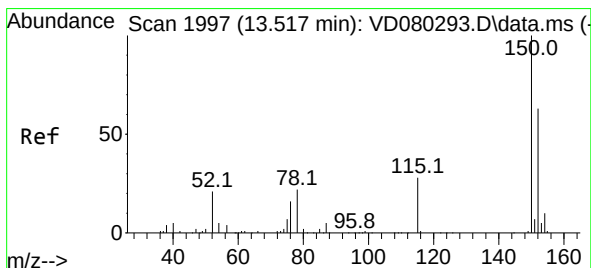
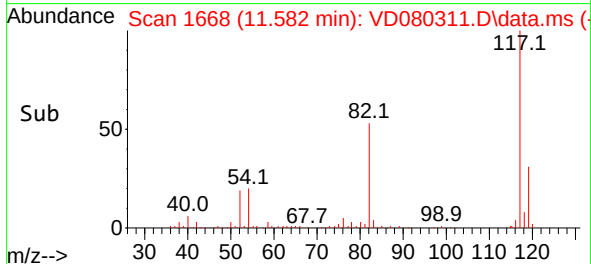
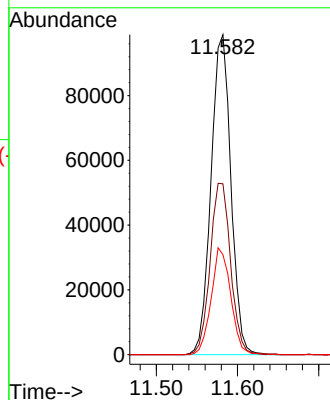
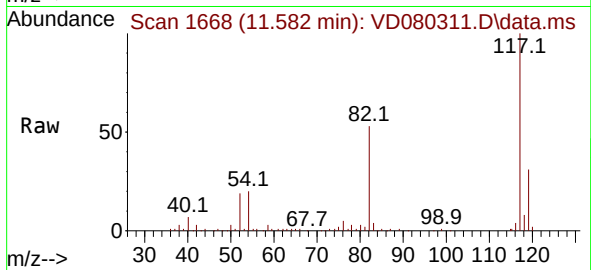




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.582 min Scan# 117  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

Instrument :  
MSVOA\_D  
ClientSampleId :  
205510

Tgt Ion:117 Resp: 168199  
Ion Ratio Lower Upper  
117 100  
82 53.4 45.8 68.6  
119 31.2 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.517 min Scan# 1997  
Delta R.T. 0.001 min  
Lab File: VD080311.D  
Acq: 13 May 2025 19:43

Tgt Ion:152 Resp: 81531  
Ion Ratio Lower Upper  
152 100  
115 55.7 28.9 86.8  
150 153.1 0.0 354.8

