

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120921\  
 Data File : VD071238.D  
 Acq On : 09 Dec 2021 19:49  
 Operator : VA/SY  
 Sample : M4967-10  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-11S

Quant Time: Dec 10 06:48:06 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| -----                       |        |       |          |          |       |          |
| Internal Standards          |        |       |          |          |       |          |
| 1) Pentafluorobenzene       | 7.979  | 168   | 5951     | 50.00    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene     | 8.855  | 114   | 9019     | 50.00    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.638 | 117   | 10724    | 50.00    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.567 | 152   | 5779     | 50.00    | ug/l  | 0.00     |
| System Monitoring Compounds |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 4994     | 71.52    | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 143.04%  |
| 35) Dibromofluoromethane    | 7.920  | 113   | 2741     | 47.73    | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 95.46%   |
| 50) Toluene-d8              | 10.338 | 98    | 12882    | 58.94    | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =     | 117.88%  |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 5194     | 68.56    | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =     | 137.12%  |

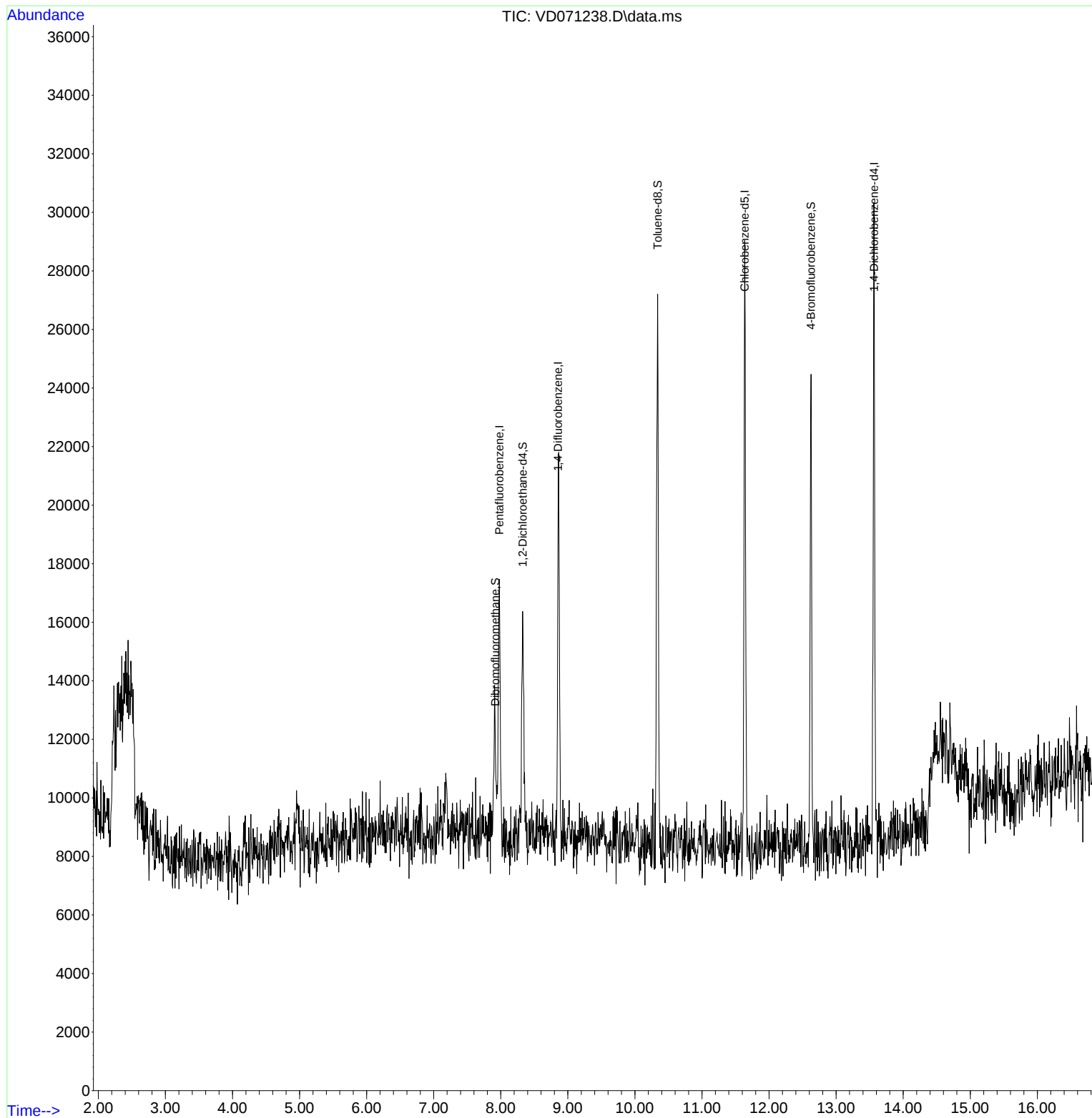
Target Compounds Qvalue

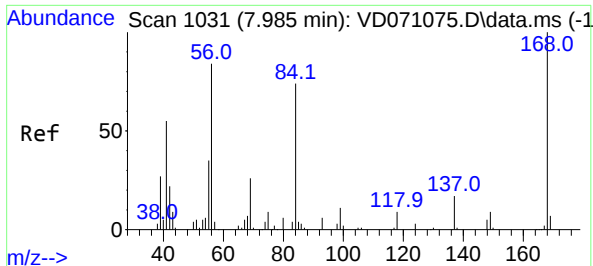
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

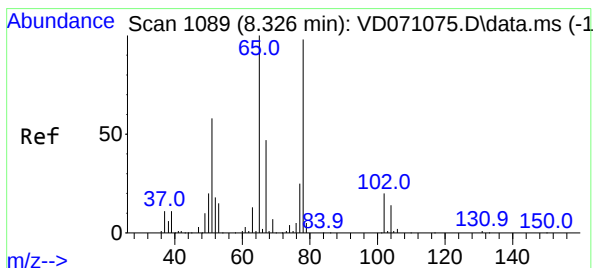
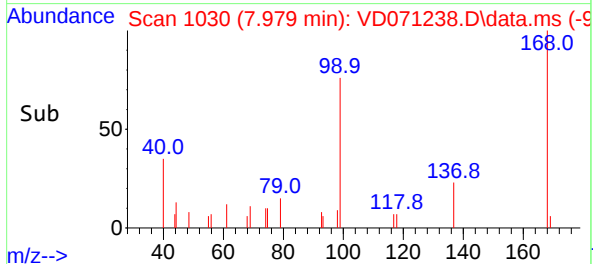
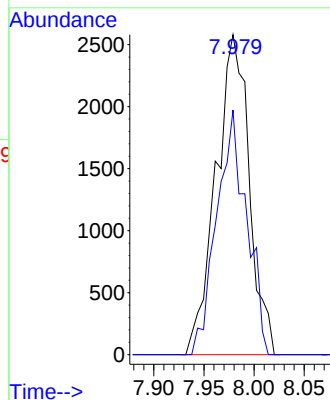
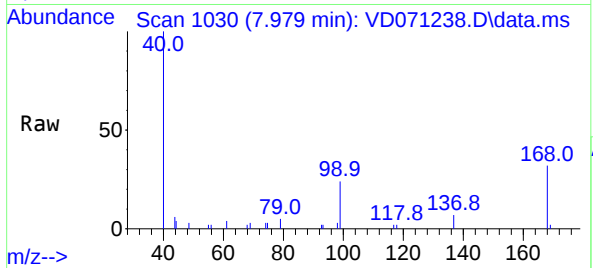




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

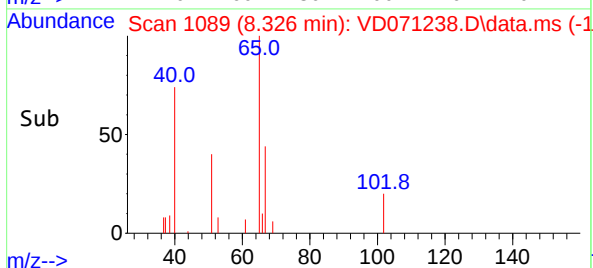
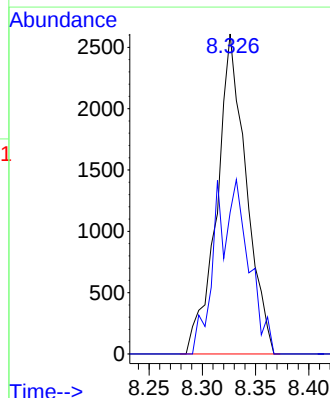
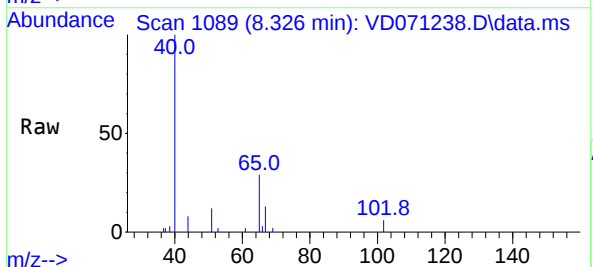
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-11S

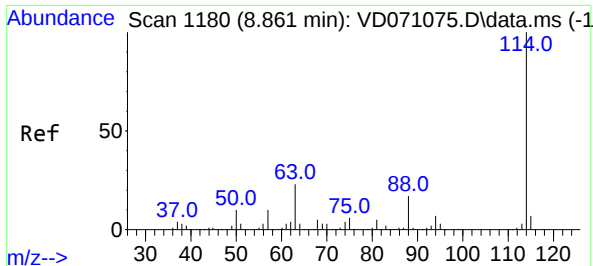
Tgt Ion:168 Resp: 5951  
Ion Ratio Lower Upper  
168 100  
99 76.5 46.6 69.8#



#33  
1,2-Dichloroethane-d4  
Concen: 71.52 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Tgt Ion: 65 Resp: 4994  
Ion Ratio Lower Upper  
65 100  
67 61.5 0.0 112.2



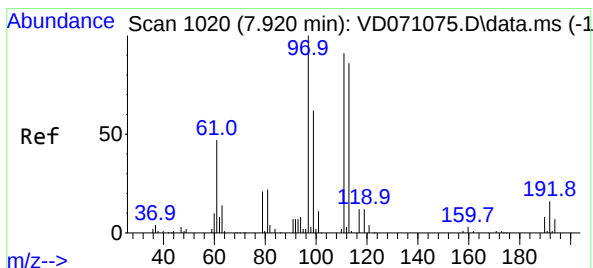
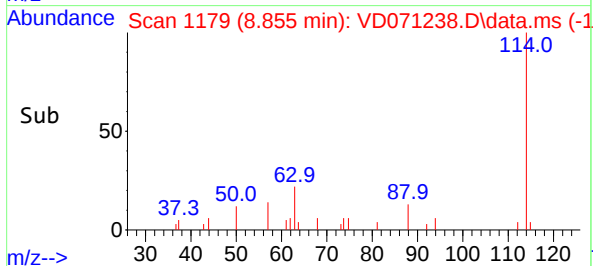
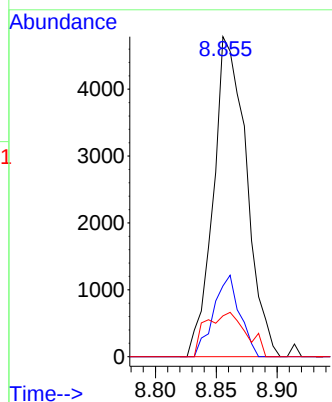
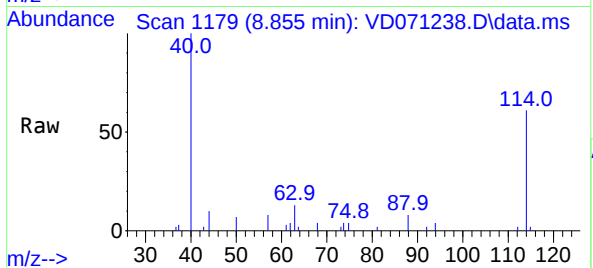


#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.855 min Scan# 1180  
Delta R.T. -0.006 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-11S

Tgt Ion:114 Resp: 9019

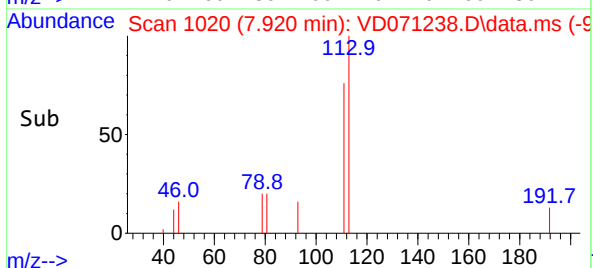
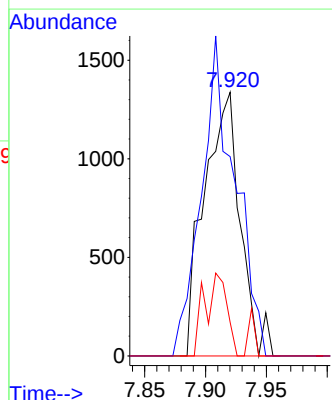
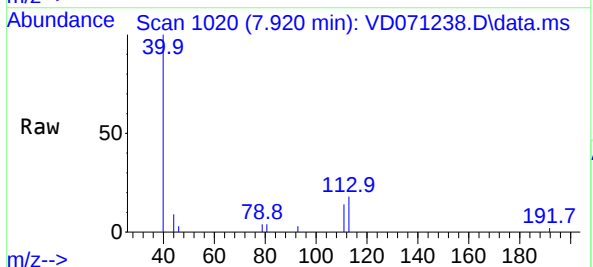
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 26.0  | 0.0   | 41.8  |
| 88  | 12.7  | 0.0   | 32.8  |

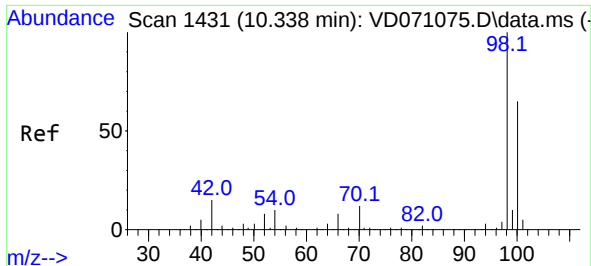


#35  
Dibromofluoromethane  
Concen: 47.73 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Tgt Ion:113 Resp: 2741

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 113.7 | 82.0  | 123.0 |
| 192 | 19.3  | 15.2  | 22.8  |

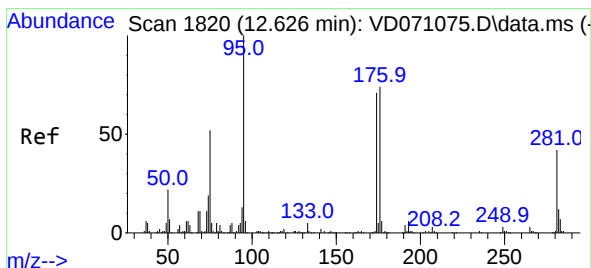
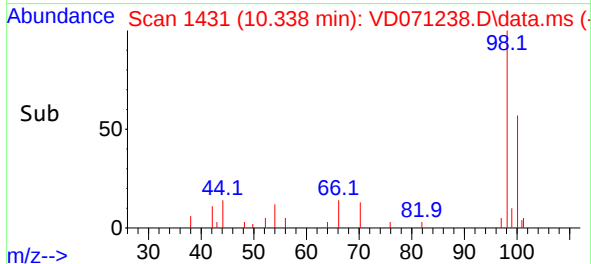
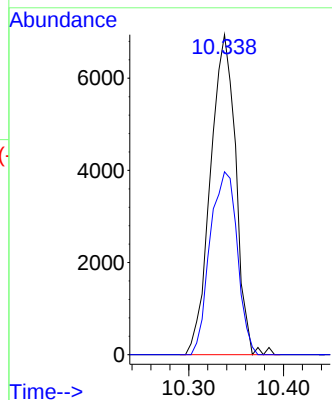
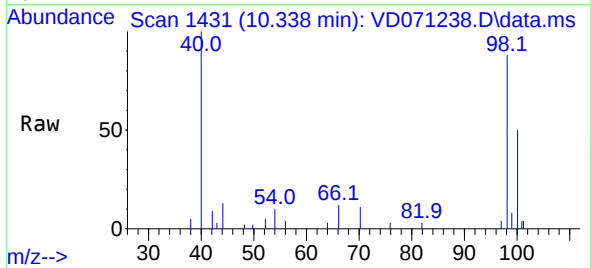




#50  
Toluene-d8  
Concen: 58.94 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

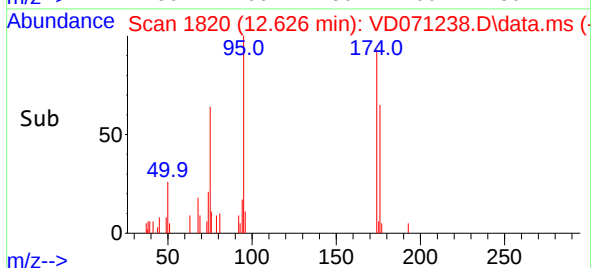
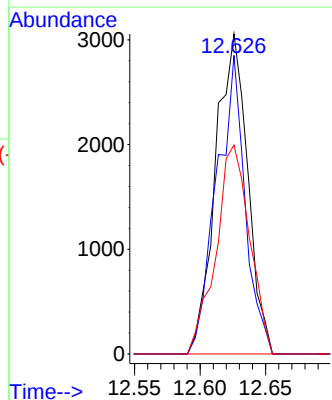
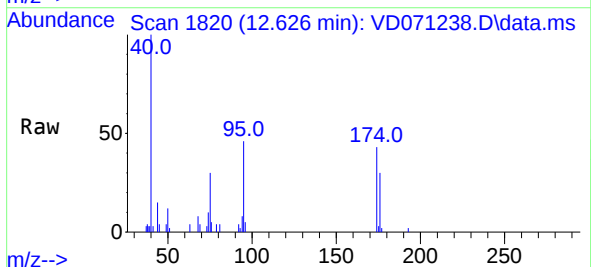
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-11S

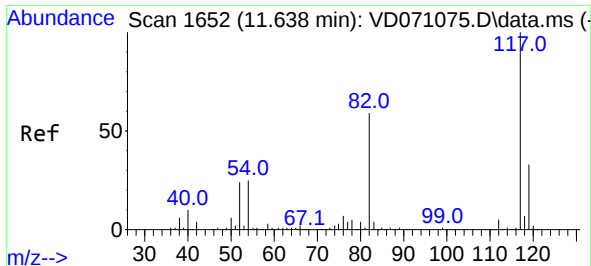
Tgt Ion: 98 Resp: 12882  
Ion Ratio Lower Upper  
98 100  
100 61.5 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 68.56 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Tgt Ion: 95 Resp: 5194  
Ion Ratio Lower Upper  
95 100  
174 82.6 0.0 159.4  
176 68.7 0.0 154.0

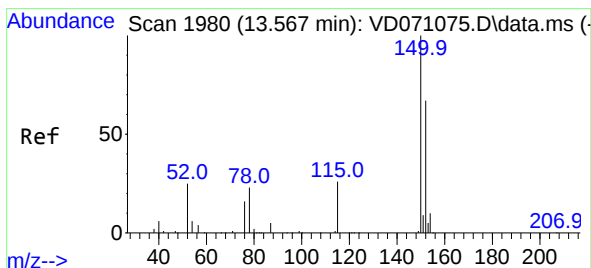
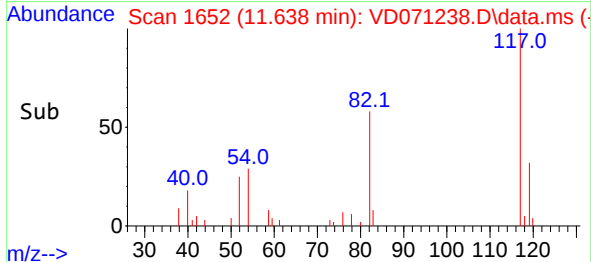
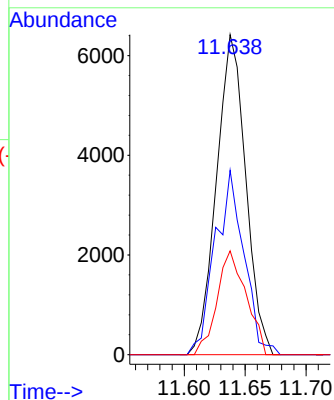
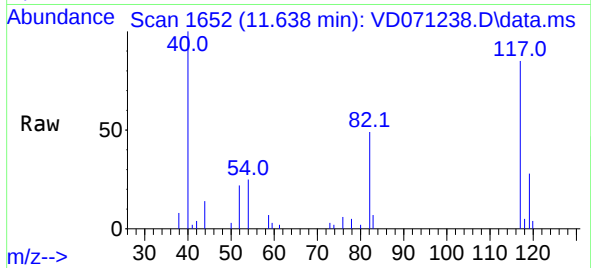




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.638 min Scan# 1177  
Delta R.T. -0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-11S

Tgt Ion:117 Resp: 10724  
Ion Ratio Lower Upper  
117 100  
82 57.6 44.7 67.1  
119 32.5 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD071238.D  
Acq: 09 Dec 2021 19:49

Tgt Ion:152 Resp: 5779  
Ion Ratio Lower Upper  
152 100  
115 56.7 29.8 89.3  
150 136.2 0.0 349.2

