

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120121\  
 Data File : VD071108.D  
 Acq On : 01 Dec 2021 16:17  
 Operator : VA/SY  
 Sample : M4877-01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PL-2-120121

Quant Time: Dec 02 03:15:14 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      | 7.973  | 168  | 201997   | 50.000 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 396952   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 428447   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 200845   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 138645   | 58.495   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 117.000% |
| 35) Dibromofluoromethane    | 7.914  | 113   | 134502   | 53.210   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 106.420% |
| 50) Toluene-d8              | 10.338 | 98    | 523546   | 54.426   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 108.860% |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 208528   | 62.538   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 125.080% |

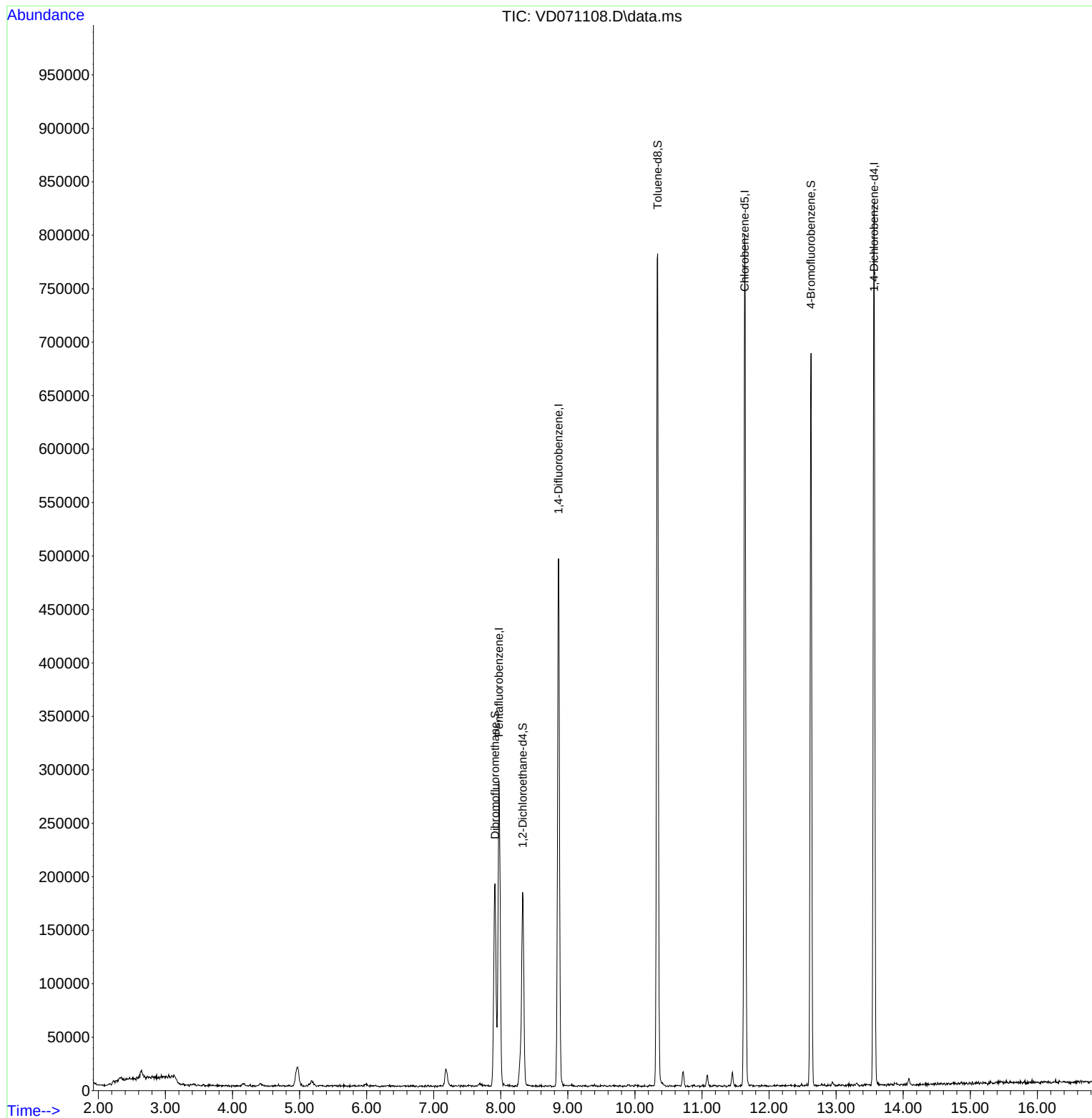
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

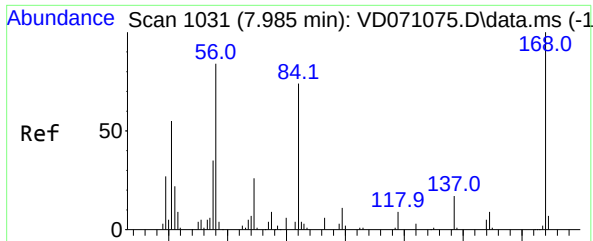
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD071108.D

Acq: 01 Dec 2021 16:17

Instrument :

MSVOA\_D

ClientSampleId :

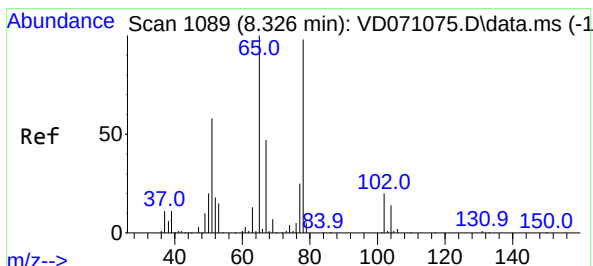
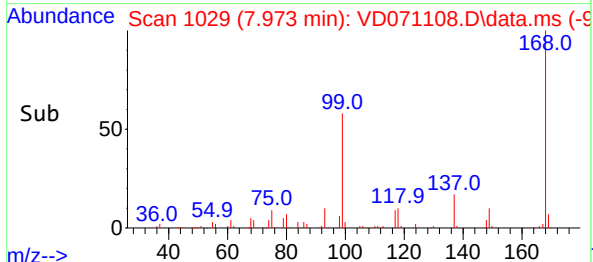
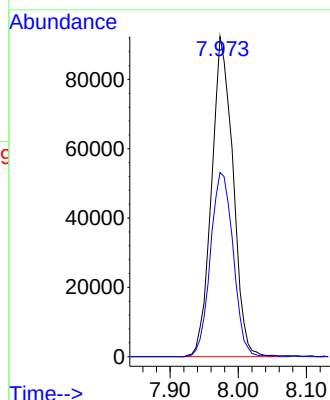
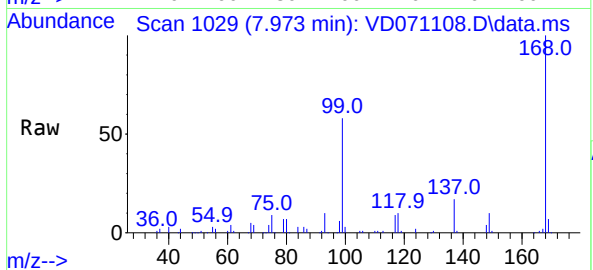
PL-2-120121

Tgt Ion:168 Resp: 201997

Ion Ratio Lower Upper

168 100

99 57.5 46.6 69.8



1,2-Dichloroethane-d4

Concen: 58.495 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071108.D

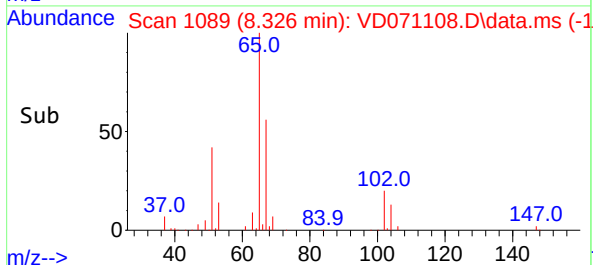
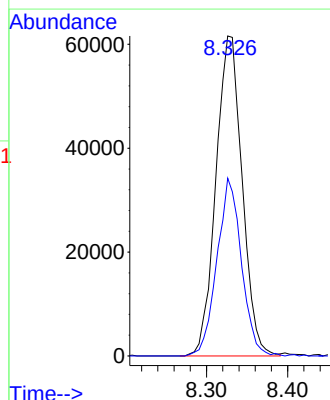
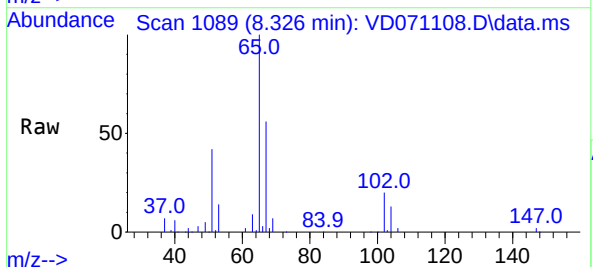
Acq: 01 Dec 2021 16:17

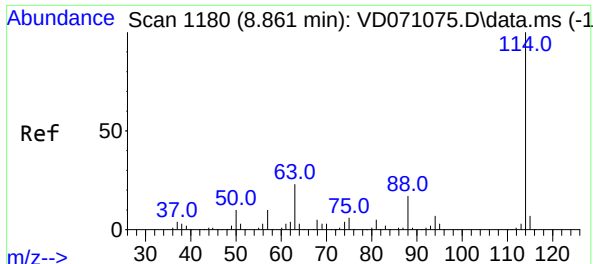
Tgt Ion: 65 Resp: 138645

Ion Ratio Lower Upper

65 100

67 51.8 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071108.D

Acq: 01 Dec 2021 16:17

Instrument :

MSVOA\_D

ClientSampleId :

PL-2-120121

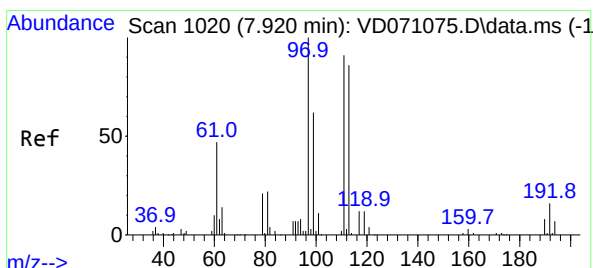
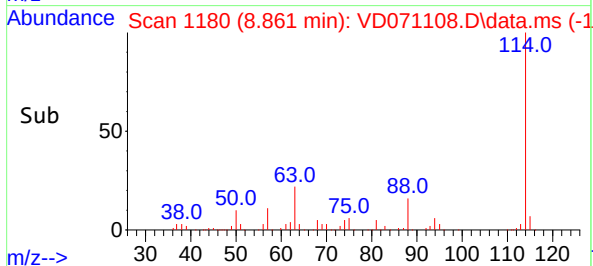
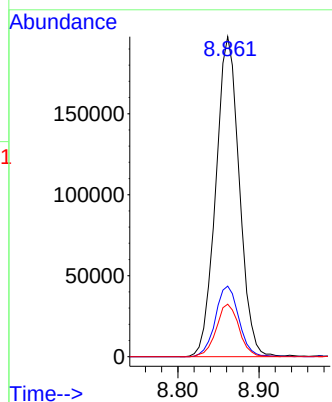
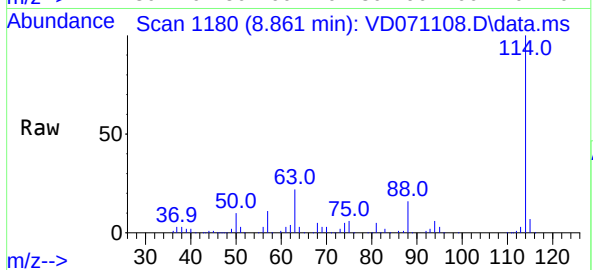
Tgt Ion:114 Resp: 396952

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.8

88 16.4 0.0 32.8



#35

Dibromofluoromethane

Concen: 53.210 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071108.D

Acq: 01 Dec 2021 16:17

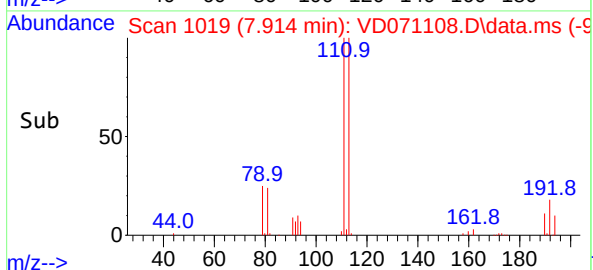
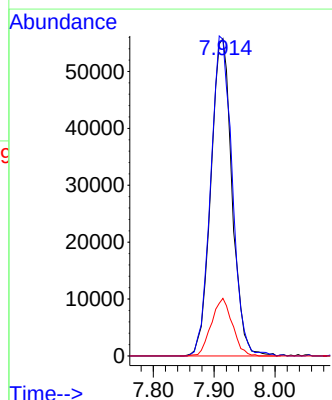
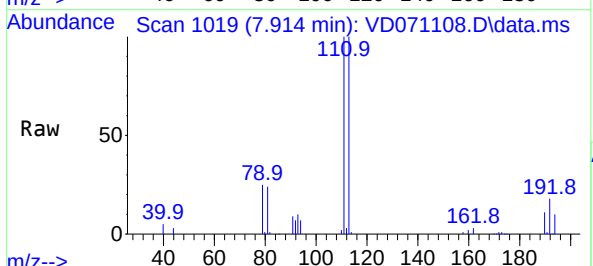
Tgt Ion:113 Resp: 134502

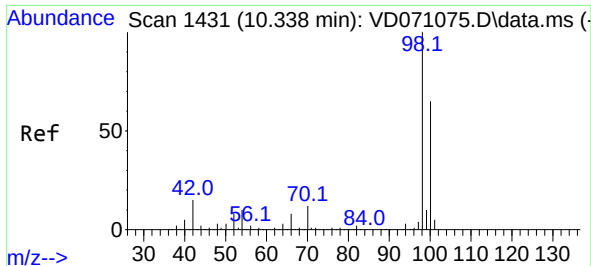
Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

192 18.0 15.2 22.8

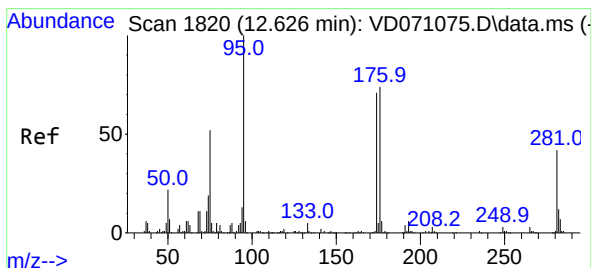
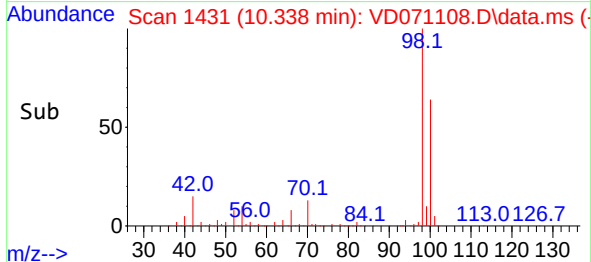
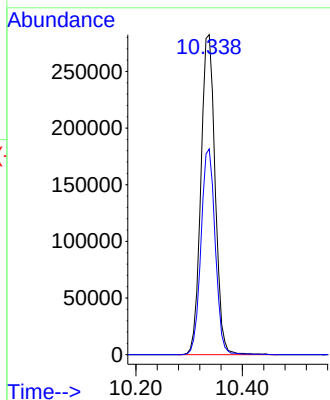
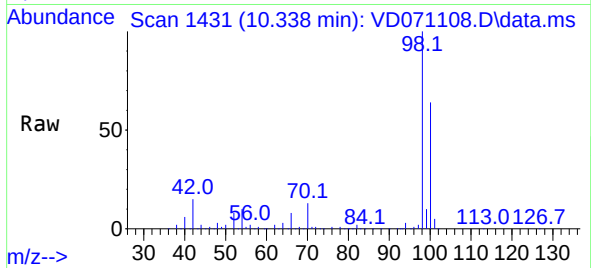




#50  
Toluene-d8  
Concen: 54.426 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071108.D  
Acq: 01 Dec 2021 16:17

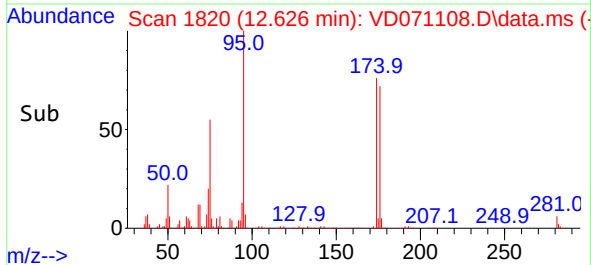
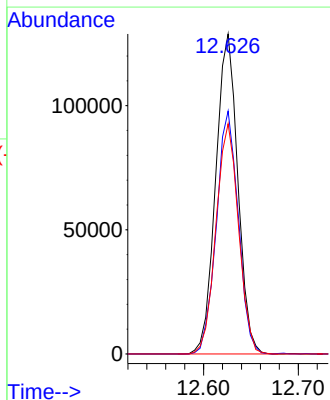
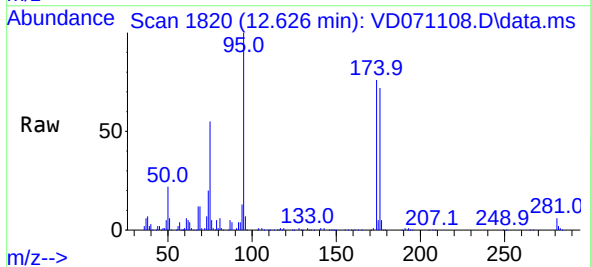
Instrument :  
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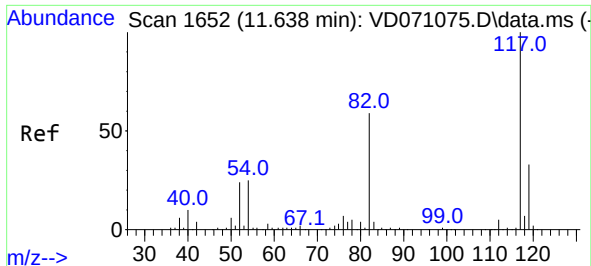
Tgt Ion: 98 Resp: 523546  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 62.538 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071108.D  
Acq: 01 Dec 2021 16:17

Tgt Ion: 95 Resp: 208528  
Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 159.4  
176 73.4 0.0 154.0

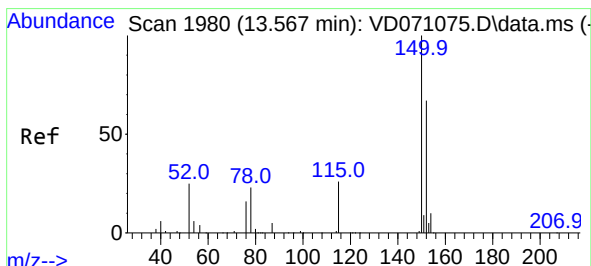
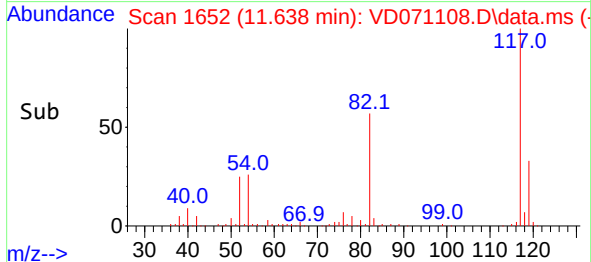
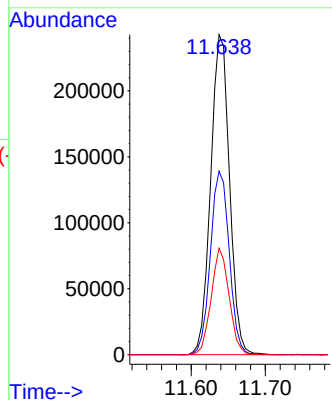
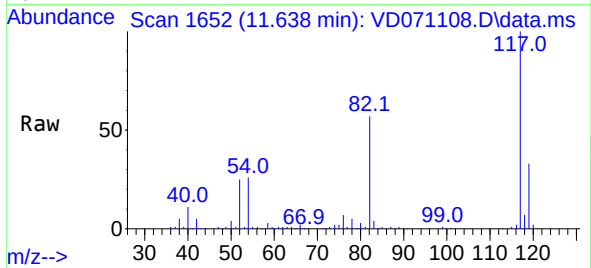




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD071108.D  
Acq: 01 Dec 2021 16:17

Instrument :  
MSVOA\_D  
ClientSampleId :  
PL-2-120121

Tgt Ion:117 Resp: 428447  
Ion Ratio Lower Upper  
117 100  
82 57.3 44.7 67.1  
119 33.3 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD071108.D  
Acq: 01 Dec 2021 16:17

Tgt Ion:152 Resp: 200845  
Ion Ratio Lower Upper  
152 100  
115 61.4 29.8 89.3  
150 159.4 0.0 349.2

