

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122821\  
 Data File : VD071509.D  
 Acq On : 28 Dec 2021 18:04  
 Operator : VA/SY  
 Sample : M5236-12  
 Misc : 5.01G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-8-(19.5-20)

Quant Time: Dec 28 19:27:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 332782   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 583584   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 567112   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 256984   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 218431   | 49.423   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 98.840%  |
| 35) Dibromofluoromethane    | 7.914  | 113   | 195123   | 49.749   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 99.500%  |
| 50) Toluene-d8              | 10.338 | 98    | 749332   | 50.556   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 101.120% |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 262917   | 49.918   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 99.840%  |

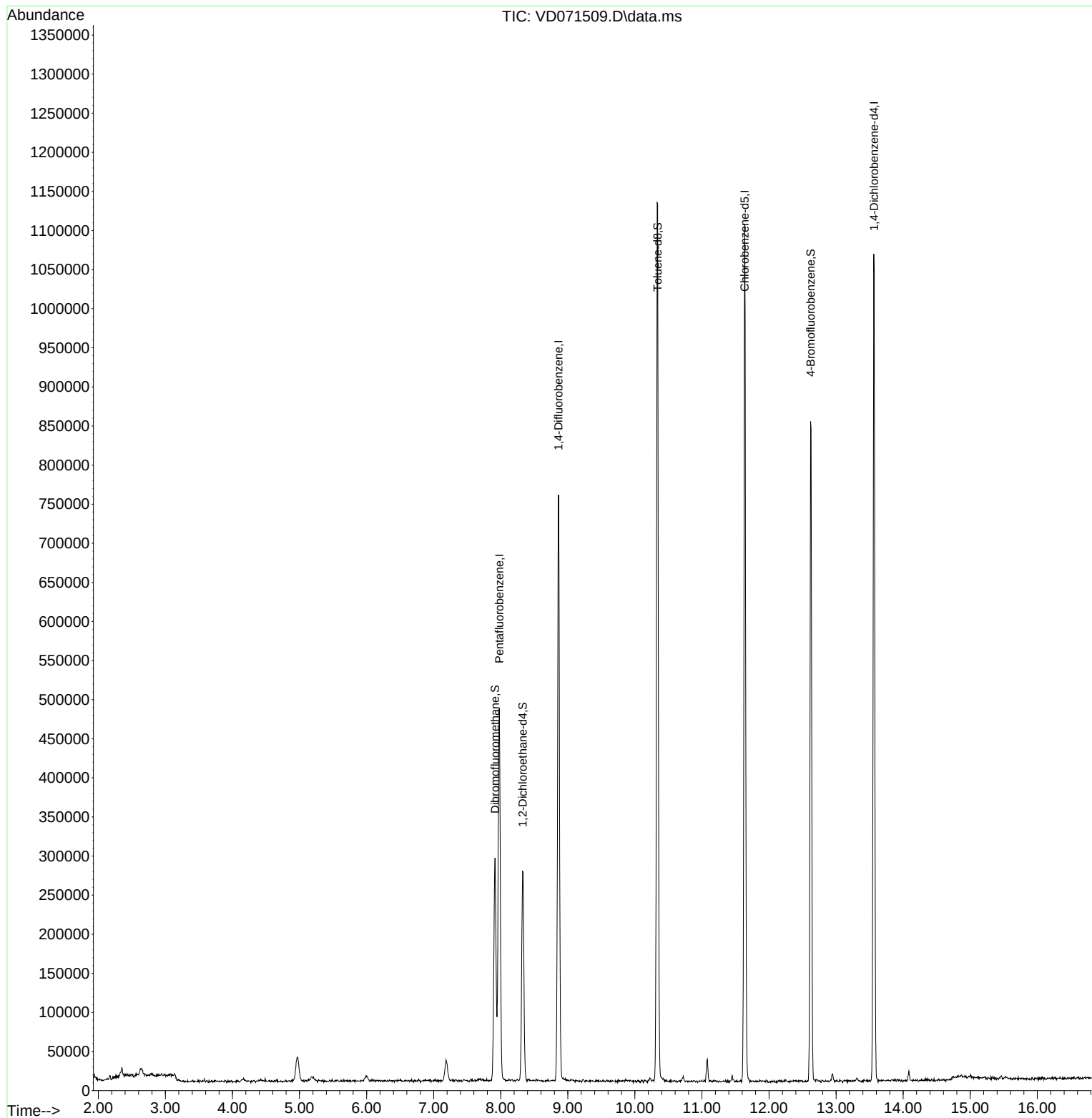
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

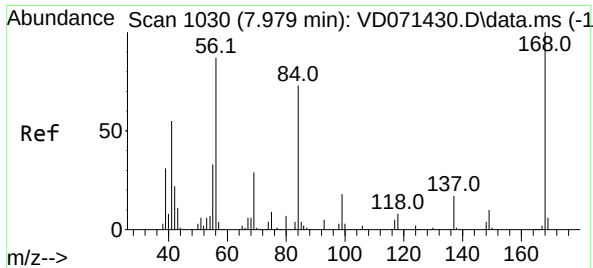
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 23 08:20:24 2021  
Response via : Initial Calibration





Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.006 min

Lab File: VD071509.D

Acq: 28 Dec 2021 18:04

Instrument :

MSVOA\_D

ClientSampleId :

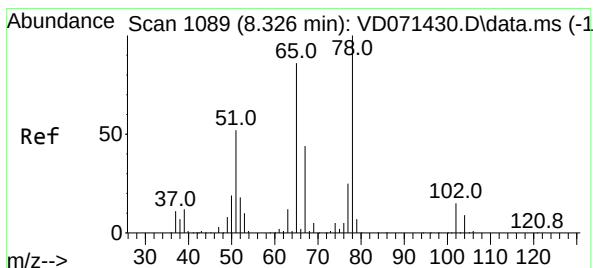
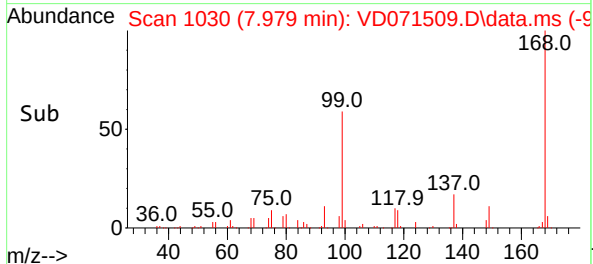
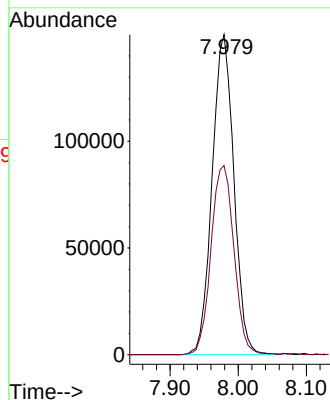
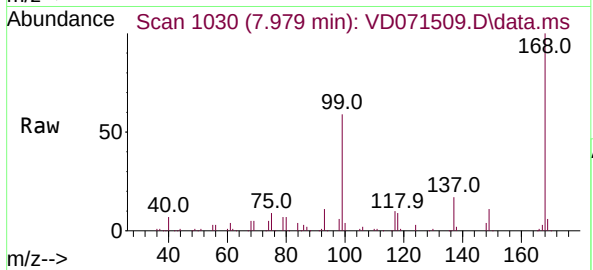
SB-8-(19.5-20)

Tgt Ion:168 Resp: 332782

Ion Ratio Lower Upper

168 100

99 59.1 46.6 69.8



1,2-Dichloroethane-d4

Concen: 49.423 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071509.D

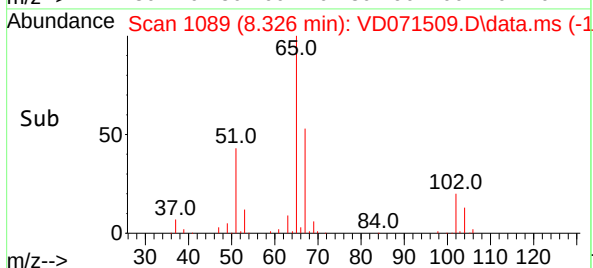
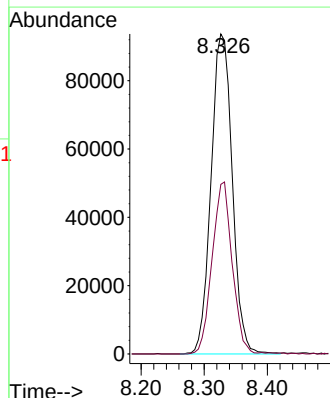
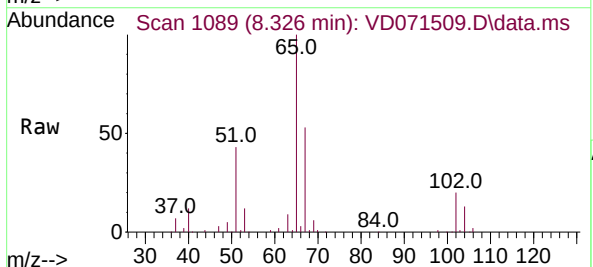
Acq: 28 Dec 2021 18:04

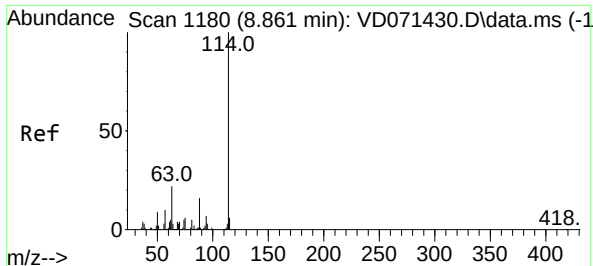
Tgt Ion: 65 Resp: 218431

Ion Ratio Lower Upper

65 100

67 50.8 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: VD071509.D

Acq: 28 Dec 2021 18:04

Instrument :

MSVOA\_D

ClientSampleId :

SB-8-(19.5-20)

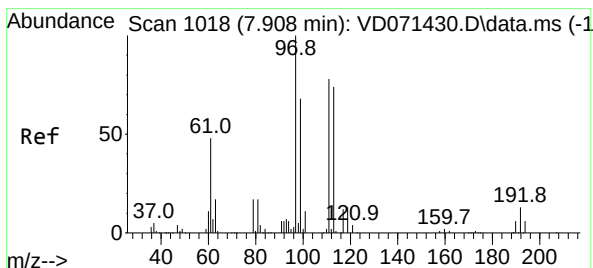
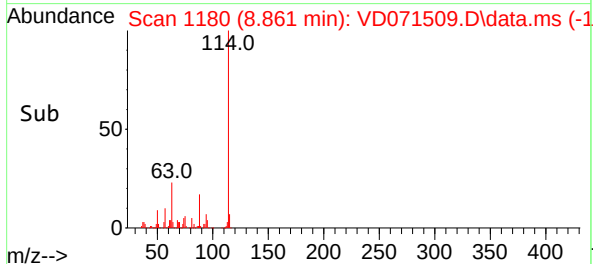
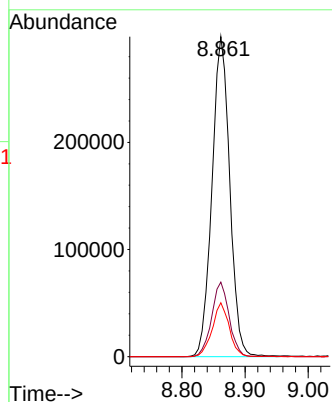
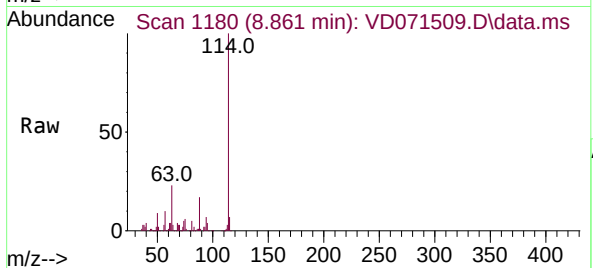
Tgt Ion:114 Resp: 583584

Ion Ratio Lower Upper

114 100

63 23.3 0.0 41.8

88 16.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.749 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD071509.D

Acq: 28 Dec 2021 18:04

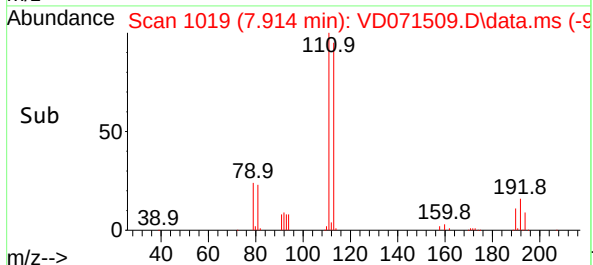
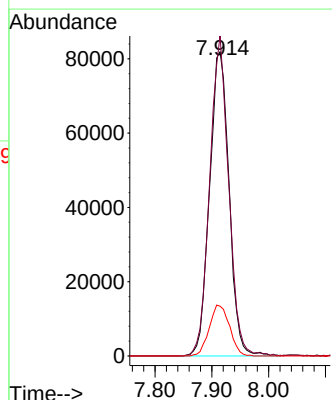
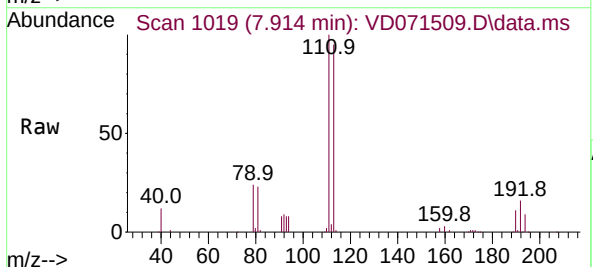
Tgt Ion:113 Resp: 195123

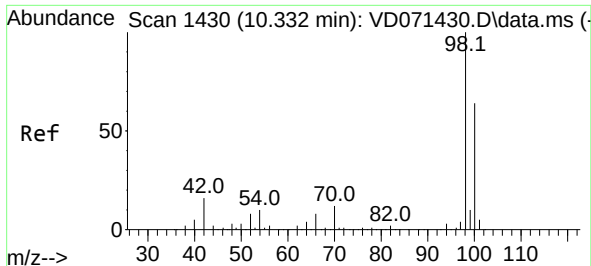
Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

192 17.4 15.2 22.8

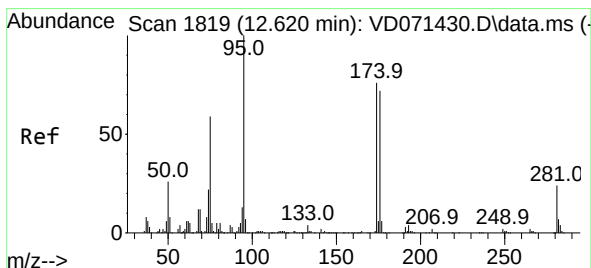
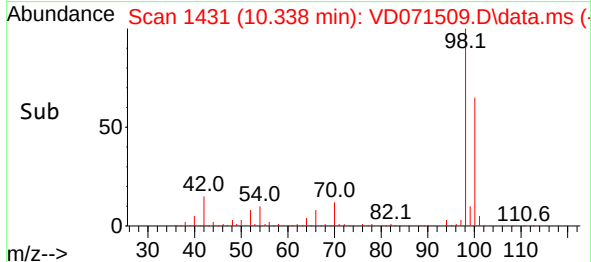
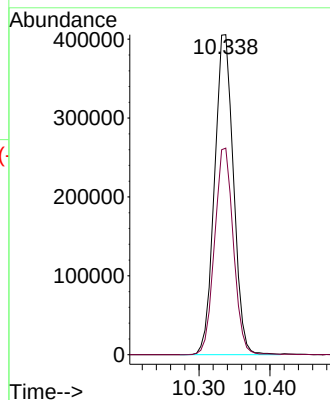
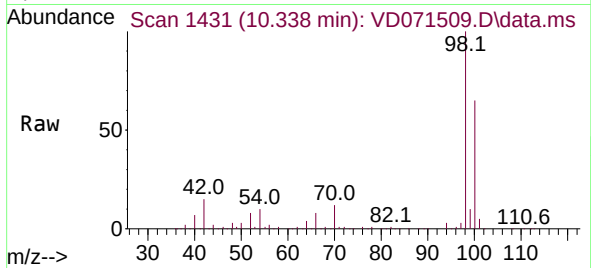




#50  
Toluene-d8  
Concen: 50.556 ug/l  
RT: 10.338 min Scan# 1430  
Delta R.T. 0.006 min  
Lab File: VD071509.D  
Acq: 28 Dec 2021 18:04

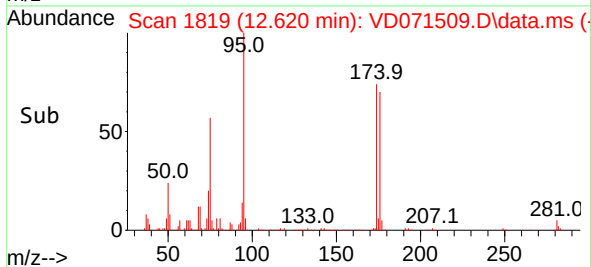
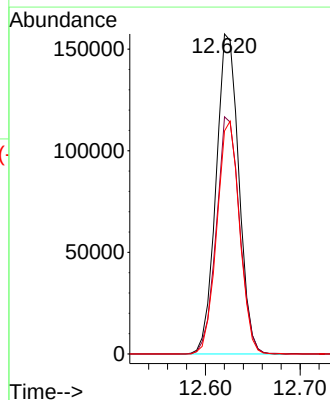
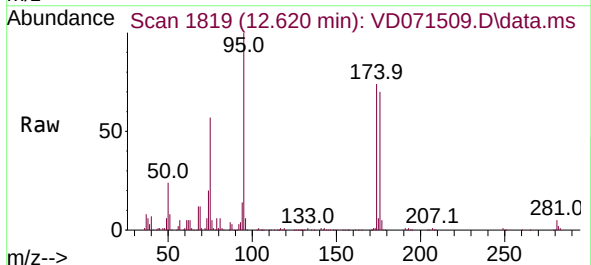
Instrument :  
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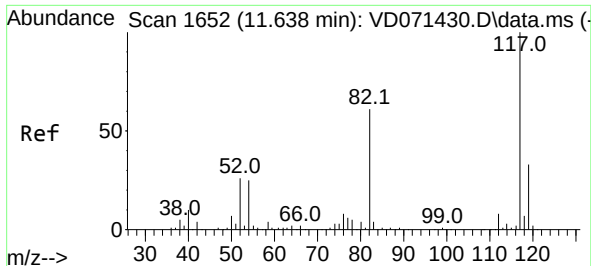
Tgt Ion: 98 Resp: 749332  
Ion Ratio Lower Upper  
98 100  
100 64.1 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 49.918 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071509.D  
Acq: 28 Dec 2021 18:04

Tgt Ion: 95 Resp: 262917  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 159.4  
176 72.4 0.0 154.0

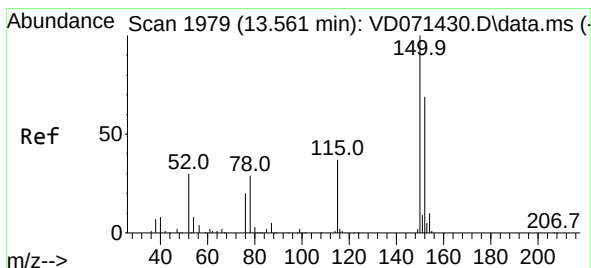
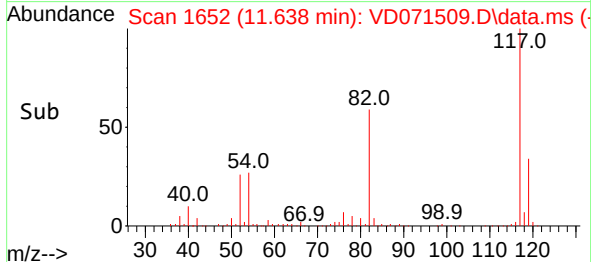
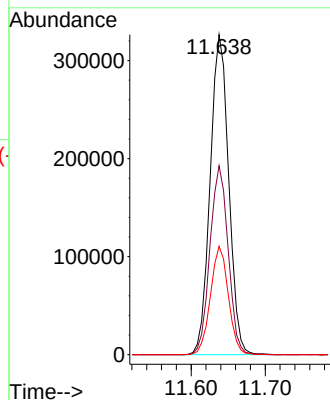
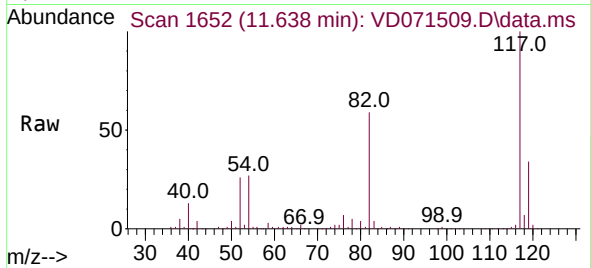




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD071509.D  
Acq: 28 Dec 2021 18:04

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-8-(19.5-20)

Tgt Ion:117 Resp: 567112  
Ion Ratio Lower Upper  
117 100  
82 59.0 44.7 67.1  
119 33.9 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.006 min  
Lab File: VD071509.D  
Acq: 28 Dec 2021 18:04

Tgt Ion:152 Resp: 256984  
Ion Ratio Lower Upper  
152 100  
115 61.4 29.8 89.3  
150 160.2 0.0 349.2

