

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122521\  
 Data File : VD071469.D  
 Acq On : 25 Dec 2021 20:28  
 Operator : VA/SY  
 Sample : M5223-04  
 Misc : 7.51G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DB-17-(10-15)-12-22-21

Quant Time: Dec 27 00:52:04 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      | 7.967  | 168  | 11617    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 18889    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.632 | 117  | 18639    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 8413     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 11265    | 73.015   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 146.020% |
| 35) Dibromofluoromethane    | 7.908  | 113   | 5786     | 45.577   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 91.160%  |
| 50) Toluene-d8              | 10.332 | 98    | 25131    | 52.384   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 104.760% |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 8614     | 50.529   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 101.060% |

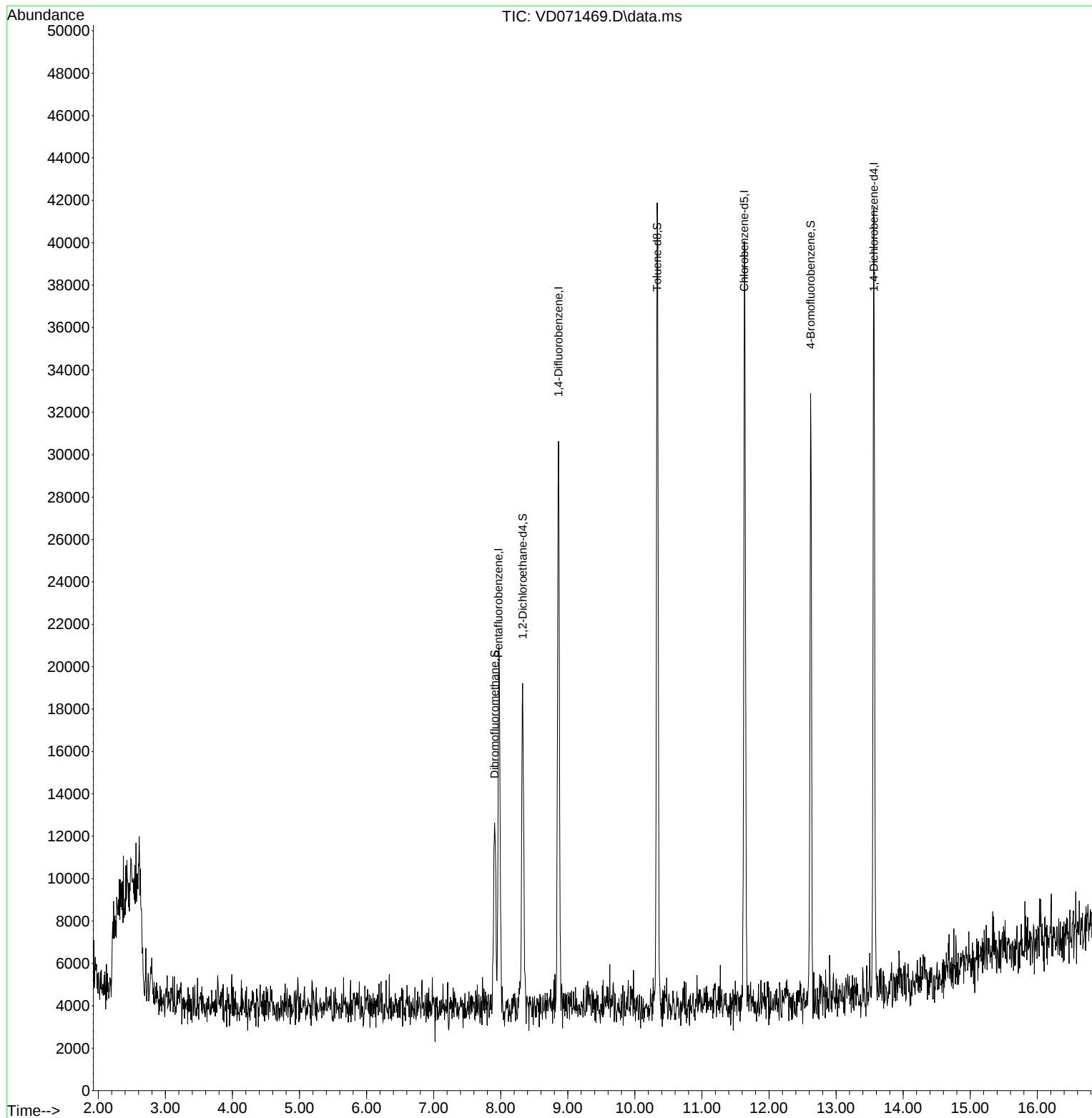
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

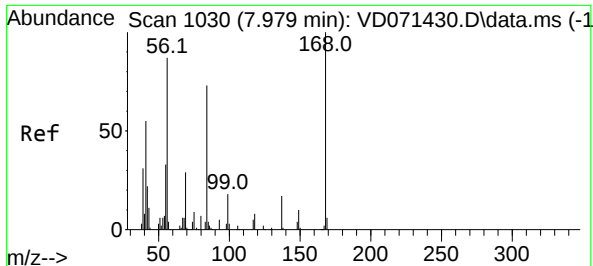
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

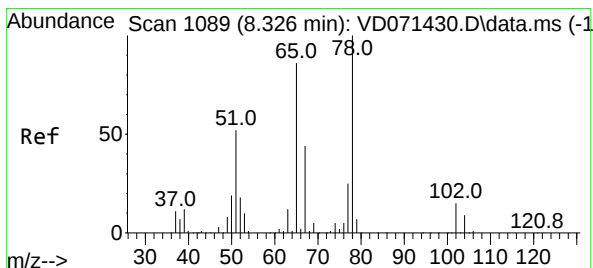
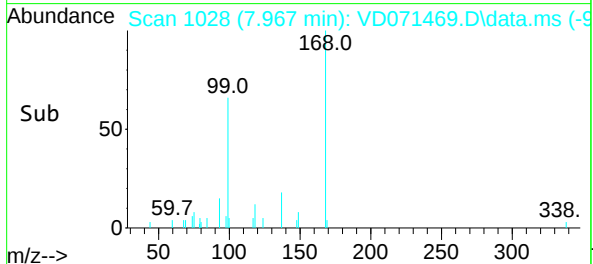
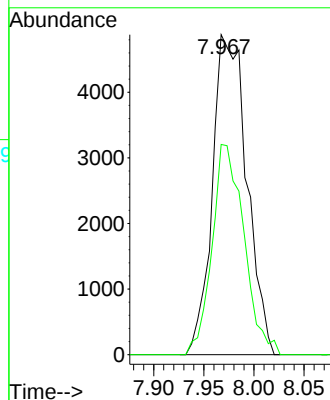
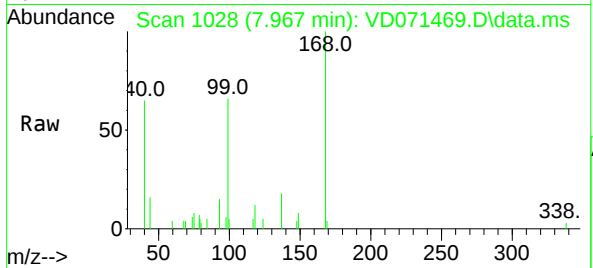




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.006 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

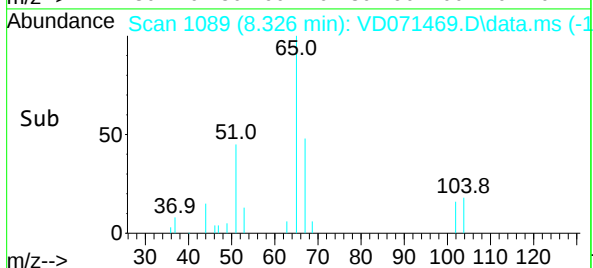
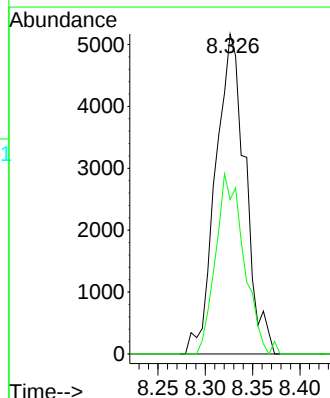
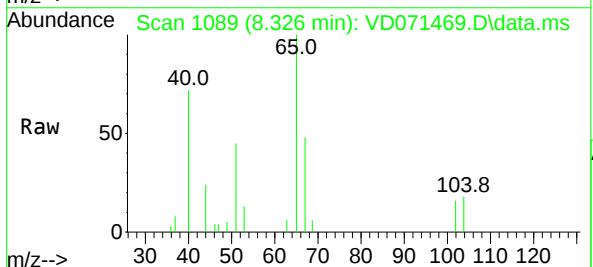
Instrument :  
MSVOA\_D  
ClientSampleId :  
DB-17-(10-15)-12-22-21

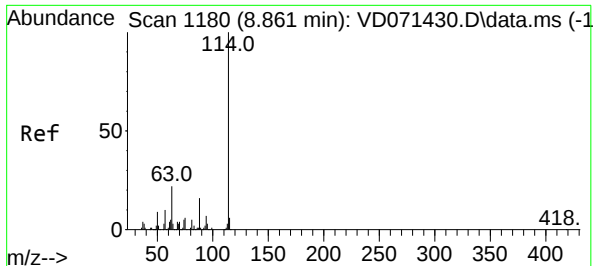
Tgt Ion:168 Resp: 11617  
Ion Ratio Lower Upper  
168 100  
99 65.7 46.6 69.8



#33  
1,2-Dichloroethane-d4  
Concen: 73.015 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

Tgt Ion: 65 Resp: 11265  
Ion Ratio Lower Upper  
65 100  
67 53.0 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: VD071469.D

Acq: 25 Dec 2021 20:28

Instrument :

MSVOA\_D

ClientSampleId :

DB-17-(10-15)-12-22-21

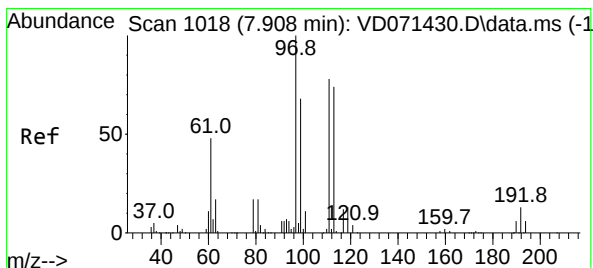
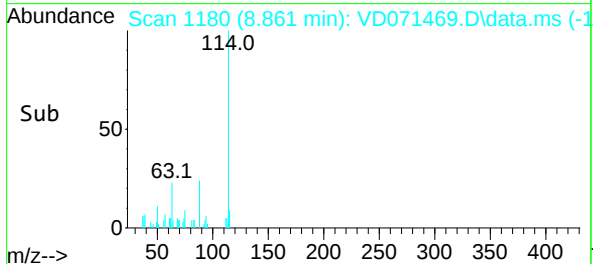
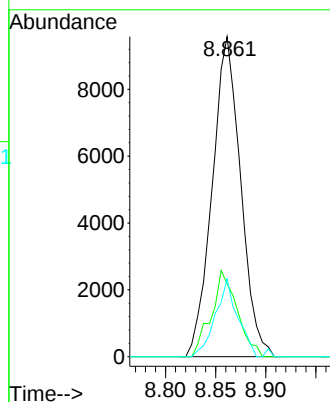
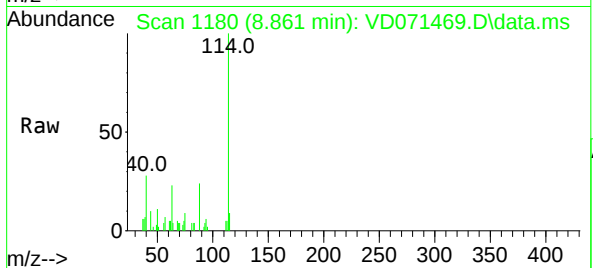
Tgt Ion:114 Resp: 18889

Ion Ratio Lower Upper

114 100

63 22.8 0.0 41.8

88 24.3 0.0 32.8



#35

Dibromofluoromethane

Concen: 45.577 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD071469.D

Acq: 25 Dec 2021 20:28

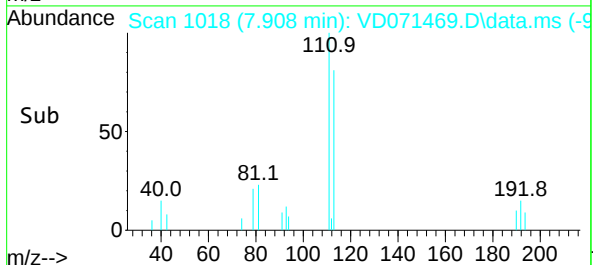
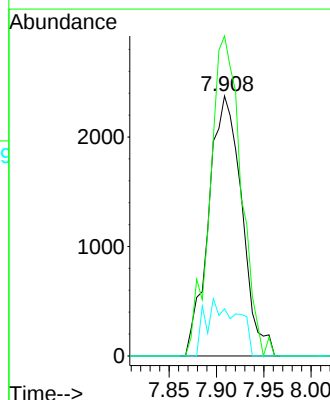
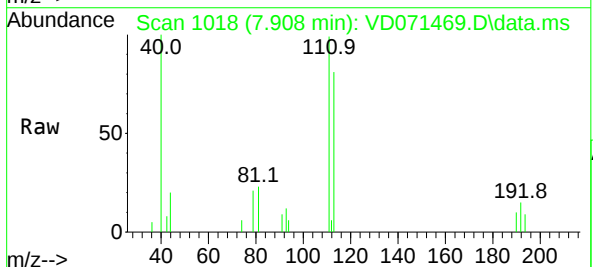
Tgt Ion:113 Resp: 5786

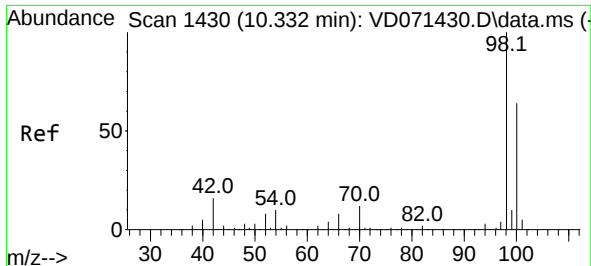
Ion Ratio Lower Upper

113 100

111 115.3 82.0 123.0

192 21.1 15.2 22.8

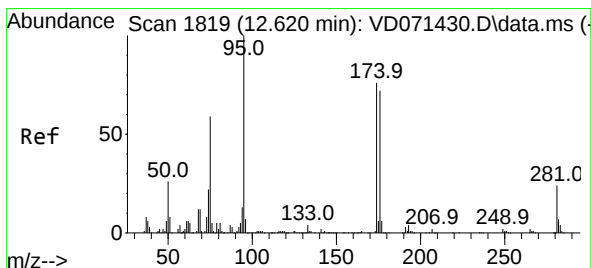
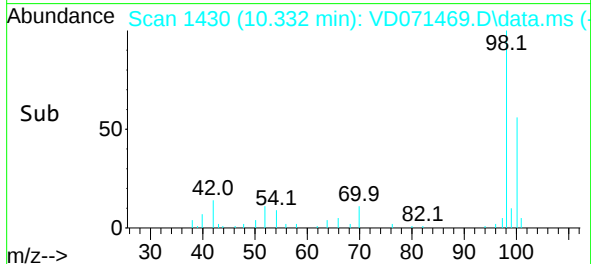
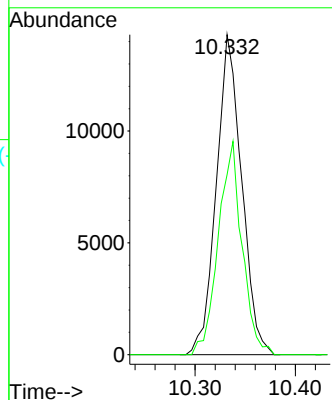
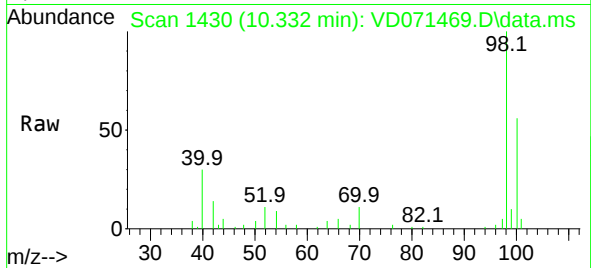




#50  
Toluene-d8  
Concen: 52.384 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

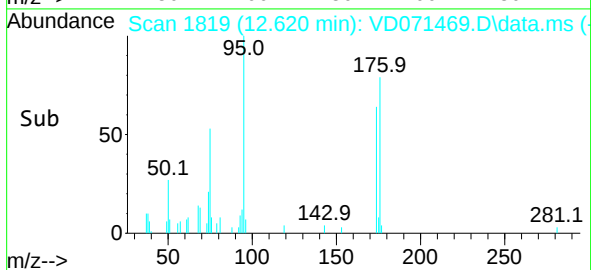
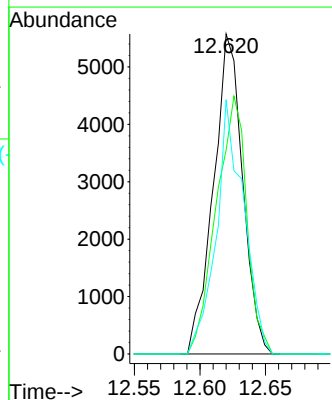
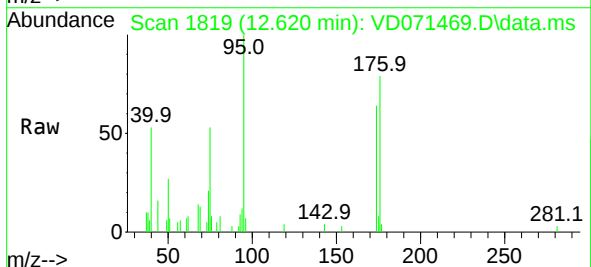
Instrument :  
MSVOA\_D  
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DB-17-(10-15)-12-22-21

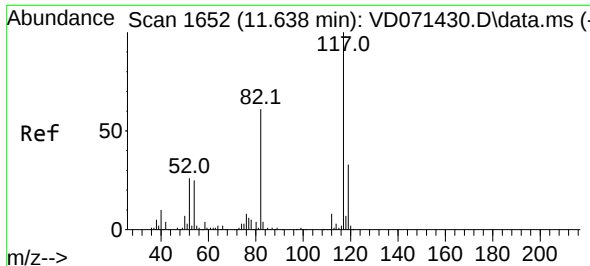
Tgt Ion: 98 Resp: 25131  
Ion Ratio Lower Upper  
98 100  
100 62.6 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 50.529 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

Tgt Ion: 95 Resp: 8614  
Ion Ratio Lower Upper  
95 100  
174 84.2 0.0 159.4  
176 75.0 0.0 154.0

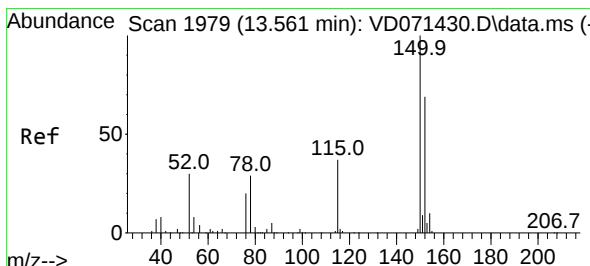
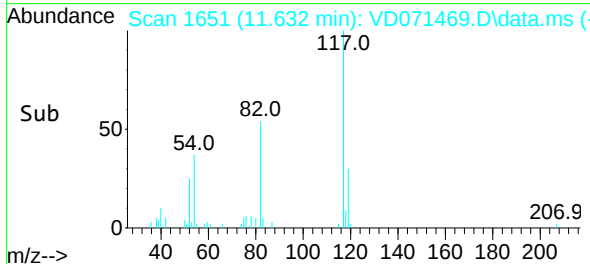
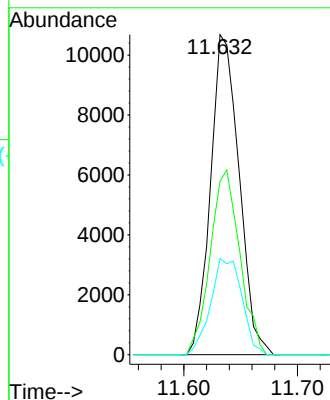
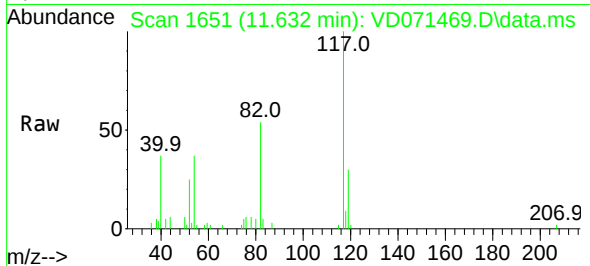




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

Instrument :  
MSVOA\_D  
ClientSampleId :  
DB-17-(10-15)-12-22-21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 18639 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 54.2  | 44.7  | 67.1  |
| 119      | 30.0  | 26.2  | 39.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD071469.D  
Acq: 25 Dec 2021 20:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 8413  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 66.3  | 29.8  | 89.3  |
| 150      | 166.1 | 0.0   | 349.2 |

