

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120720\  
 Data File : VD067898.D  
 Acq On : 07 Dec 2020 14:36  
 Operator : VA/SY  
 Sample : L4970-14  
 Misc : 7.36G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 4S1-D-BOTTOM

Quant Time: Dec 08 03:37:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 02 08:05:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 208680   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 290307   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 243917   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 91873    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 102843   | 45.91    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 91.82% |
| 35) Dibromofluoromethane  | 7.92   | 113   | 87463    | 45.02    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 90.04% |
| 50) Toluene-d8            | 10.34  | 98    | 325668   | 46.57    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 93.14% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 94924    | 39.26    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 78.52% |

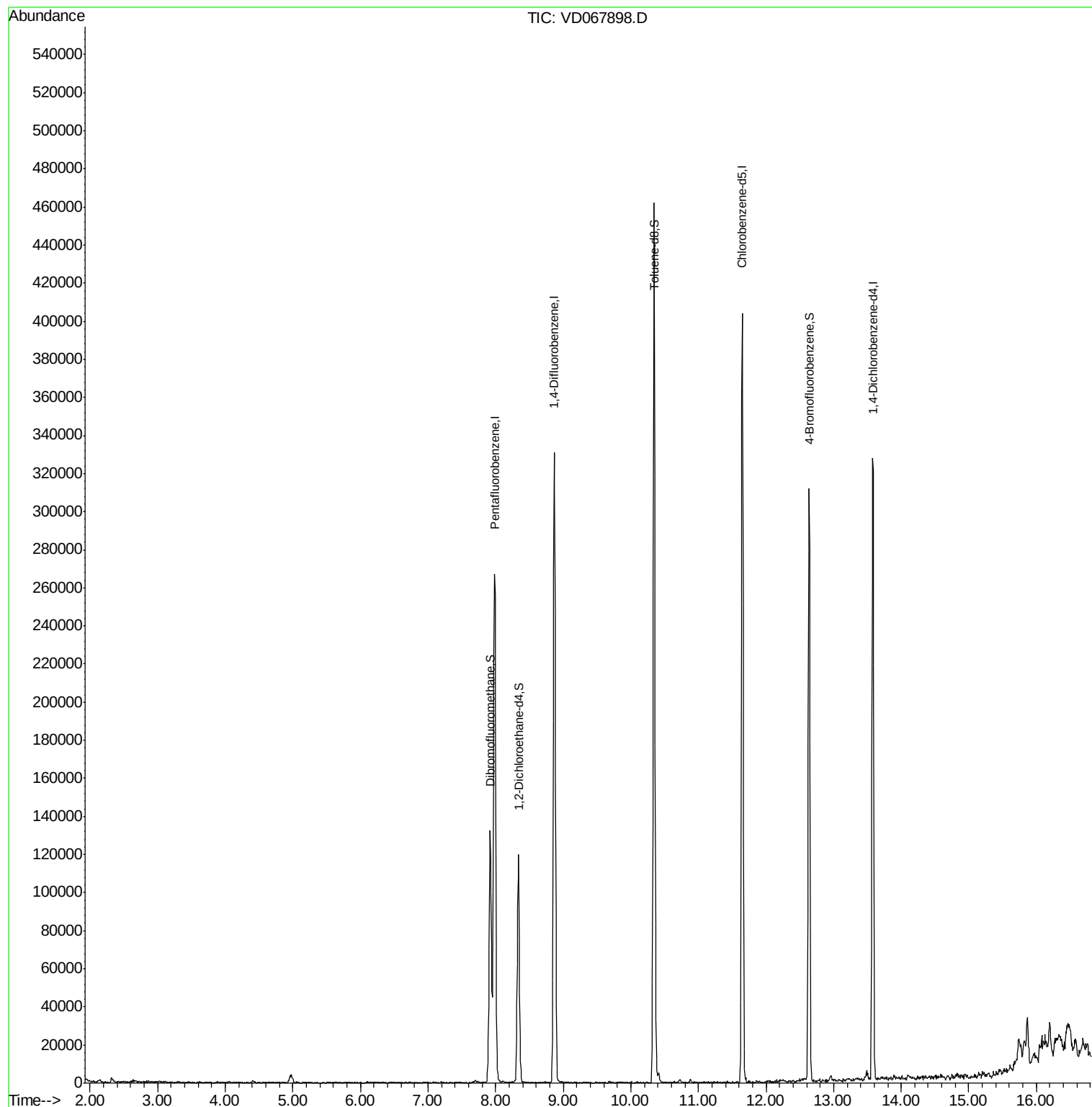
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

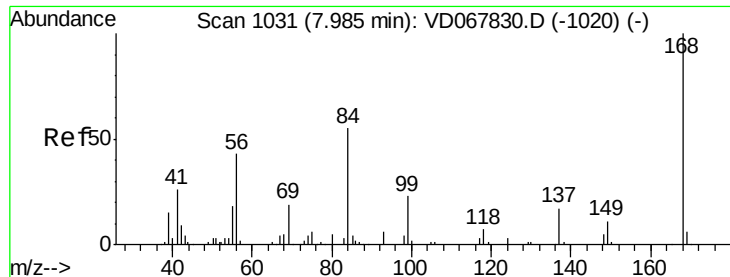
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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4S1-D-BOTTOM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D120120S.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 02 08:05:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD067898.D

Acq: 07 Dec 2020 14:36

Instrument :

MSVOA\_D

ClientSampleId :

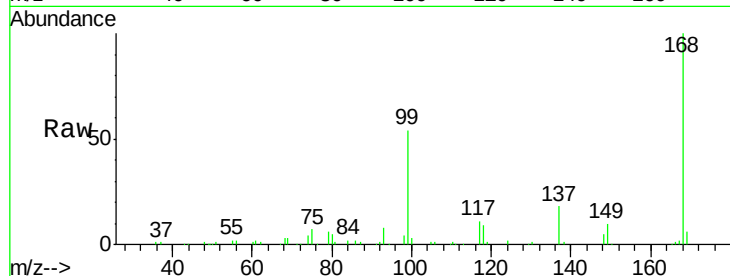
4S1-D-BOTTOM

Tot Ion:168 Resp: 208680

Ion Ratio Lower Upper

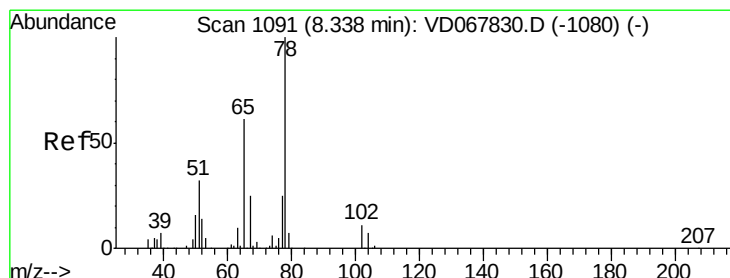
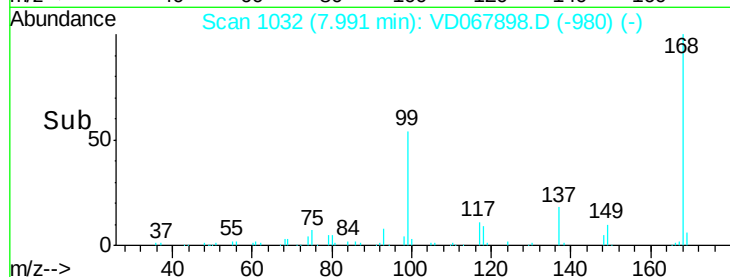
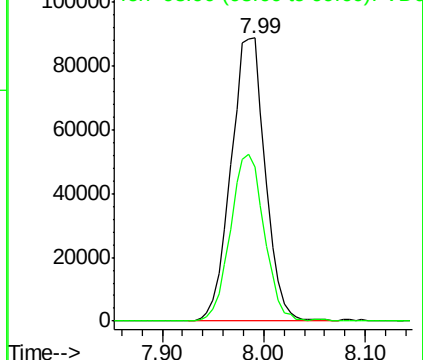
168 100

99 54.4 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 45.907 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067898.D

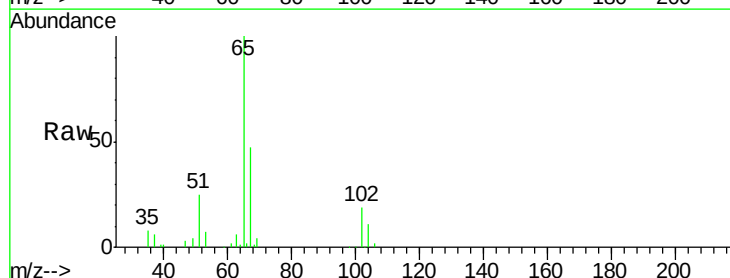
Acq: 07 Dec 2020 14:36

Tgt Ion: 65 Resp: 102843

Ion Ratio Lower Upper

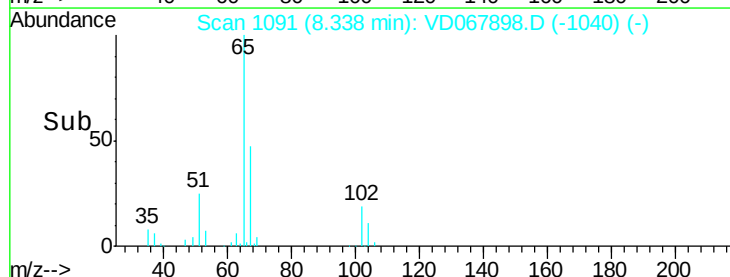
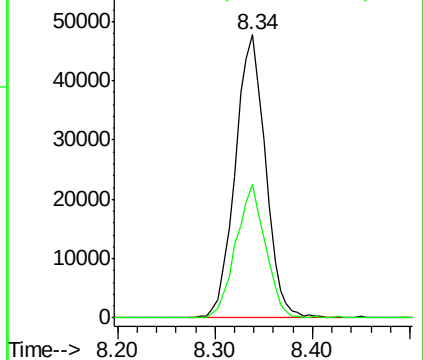
65 100

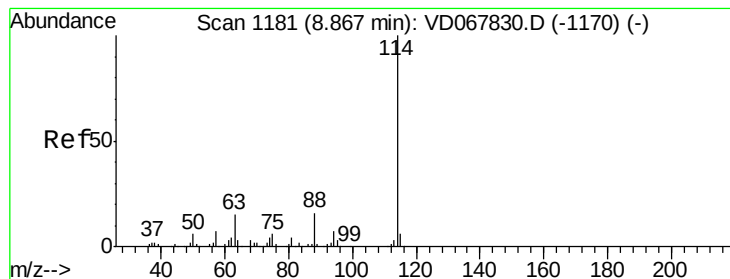
67 46.2 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067898.D

Acq: 07 Dec 2020 14:36

Instrument :

MSVOA\_D

ClientSampleId :

4S1-D-BOTTOM

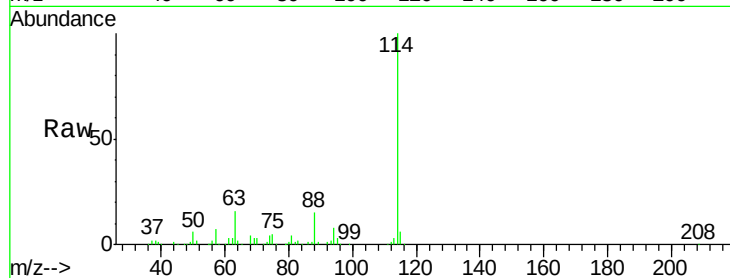
Tot Ion:114 Resp: 290307

Ion Ratio Lower Upper

114 100

63 15.7 0.0 30.8

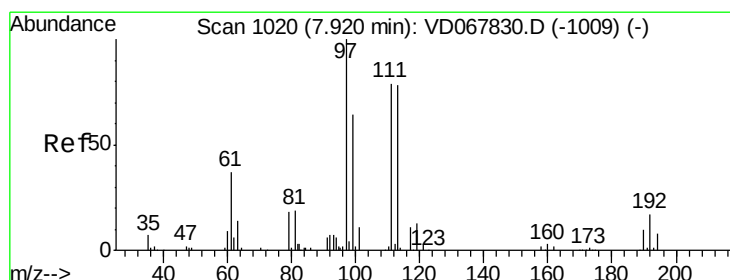
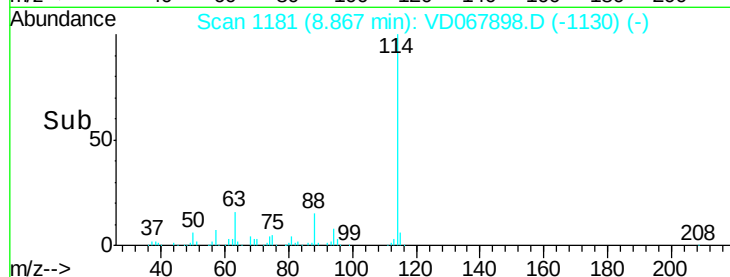
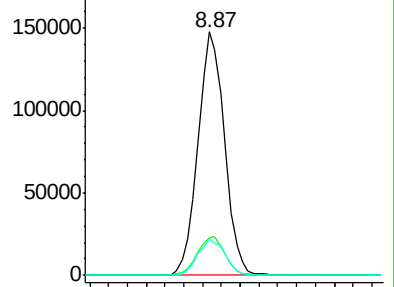
88 14.7 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 45.024 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067898.D

Acq: 07 Dec 2020 14:36

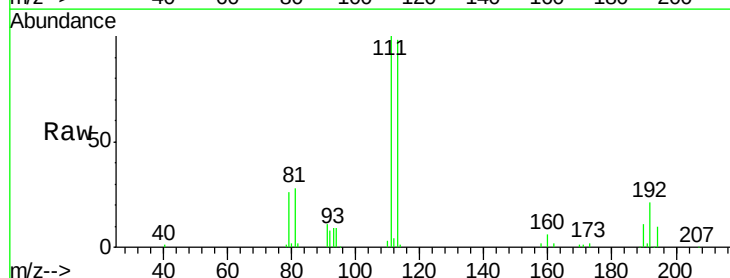
Tgt Ion:113 Resp: 87463

Ion Ratio Lower Upper

113 100

111 102.1 81.2 121.8

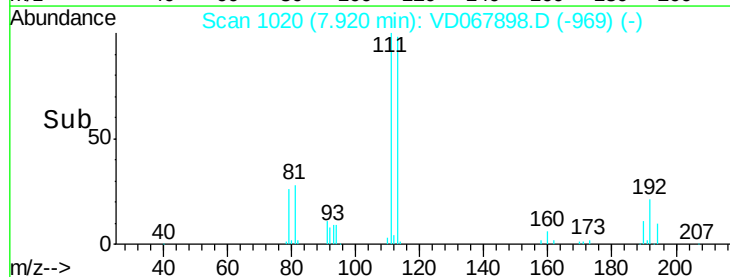
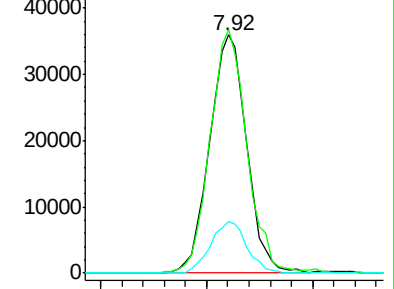
192 21.0 16.8 25.2

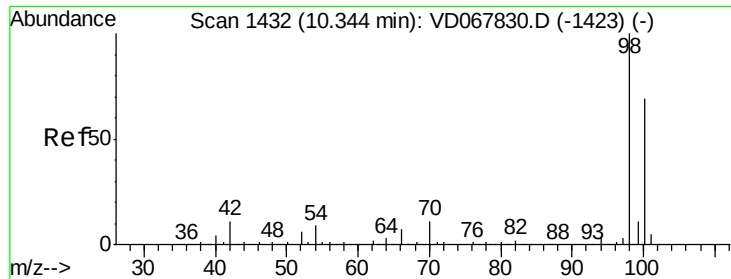


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

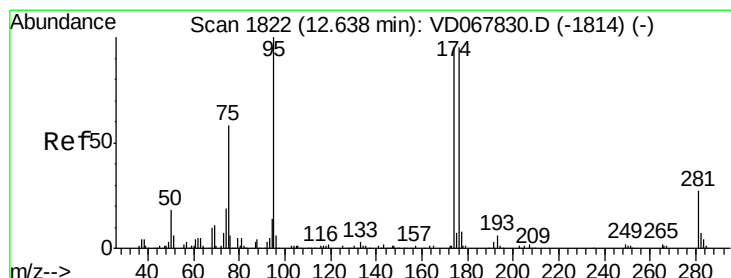
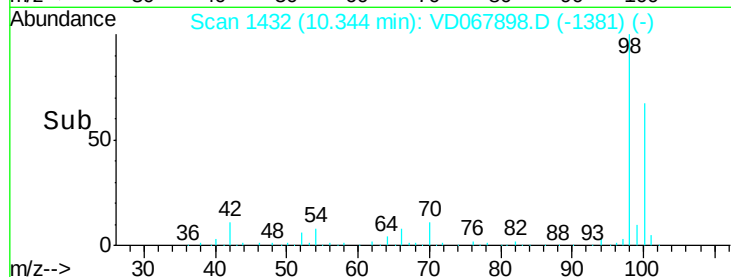
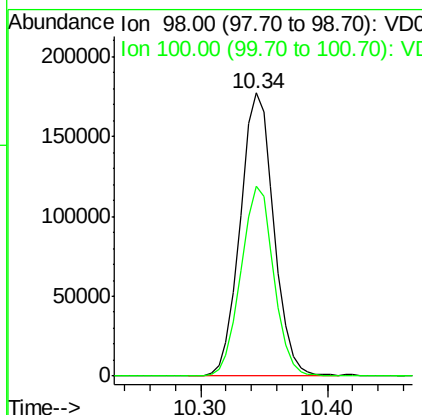
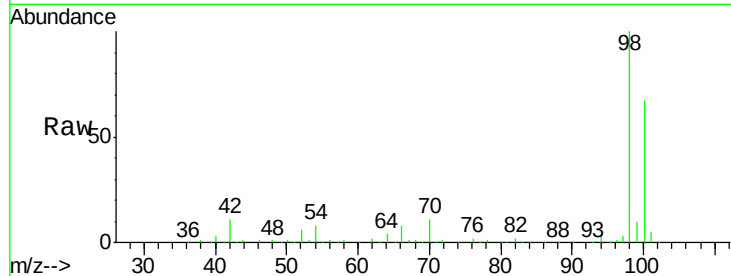




#50  
Toluene-d8  
Concen: 46.571 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067898.D  
Acq: 07 Dec 2020 14:36

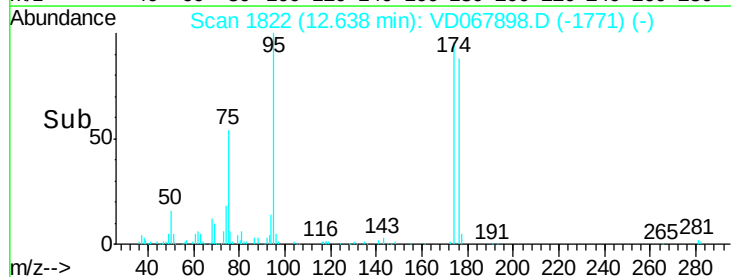
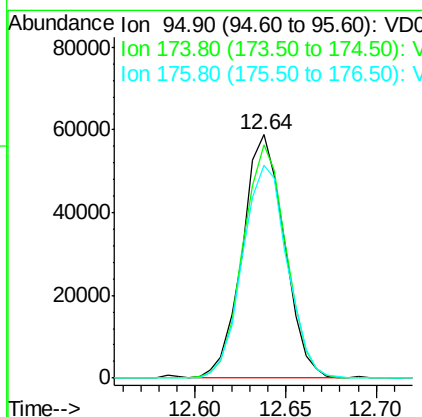
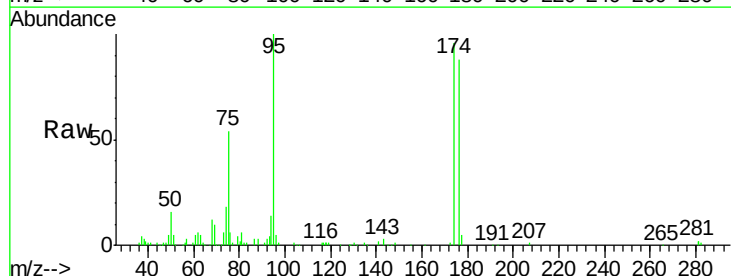
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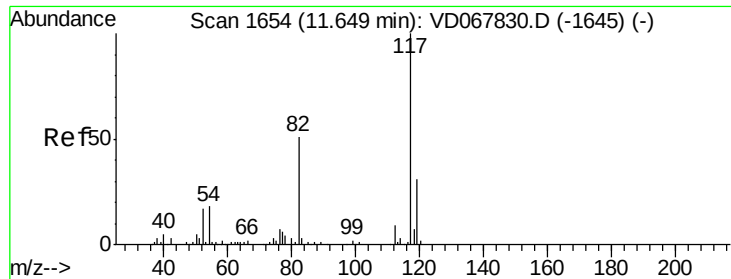
Tot Ion: 98 Resp: 325668  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.9 79.3



#62  
4-Bromofluorobenzene  
Concen: 39.263 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067898.D  
Acq: 07 Dec 2020 14:36

Tgt Ion: 95 Resp: 94924  
Ion Ratio Lower Upper  
95 100  
174 98.3 0.0 186.0  
176 93.2 0.0 184.2

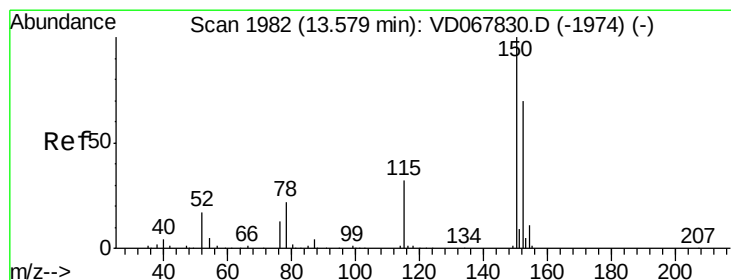
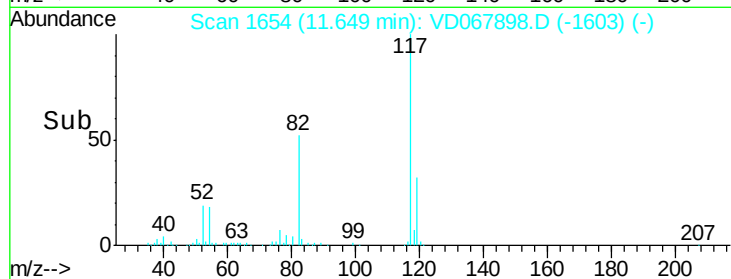
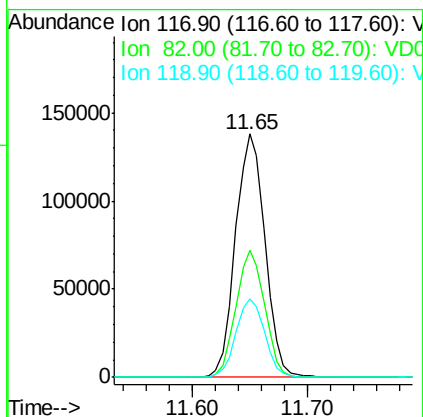
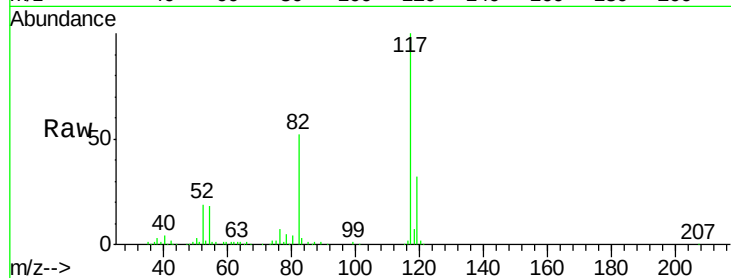




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067898.D  
Acq: 07 Dec 2020 14:36

Instrument :  
MSVOA\_D  
ClientSampleId :  
4S1-D-BOTTOM

Tot Ion:117 Resp: 243917  
Ion Ratio Lower Upper  
117 100  
82 52.0 40.6 60.8  
119 32.2 25.1 37.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067898.D  
Acq: 07 Dec 2020 14:36

Tgt Ion:152 Resp: 91873  
Ion Ratio Lower Upper  
152 100  
115 59.8 29.1 87.4  
150 159.6 0.0 339.0

