

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100920\  
 Data File : VD067217.D  
 Acq On : 09 Oct 2020 17:45  
 Operator : VA/SY  
 Sample : L4317-01  
 Misc : 5.04G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 11991

Quant Time: Oct 10 00:58:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 447659   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 743284   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 680331   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 271776   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 206021   | 47.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 95.56% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 235780   | 48.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 96.90% |          |
| 50) Toluene-d8              | 10.34 | 98   | 864790   | 48.77 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 97.54% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 292571   | 48.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 97.20% |          |

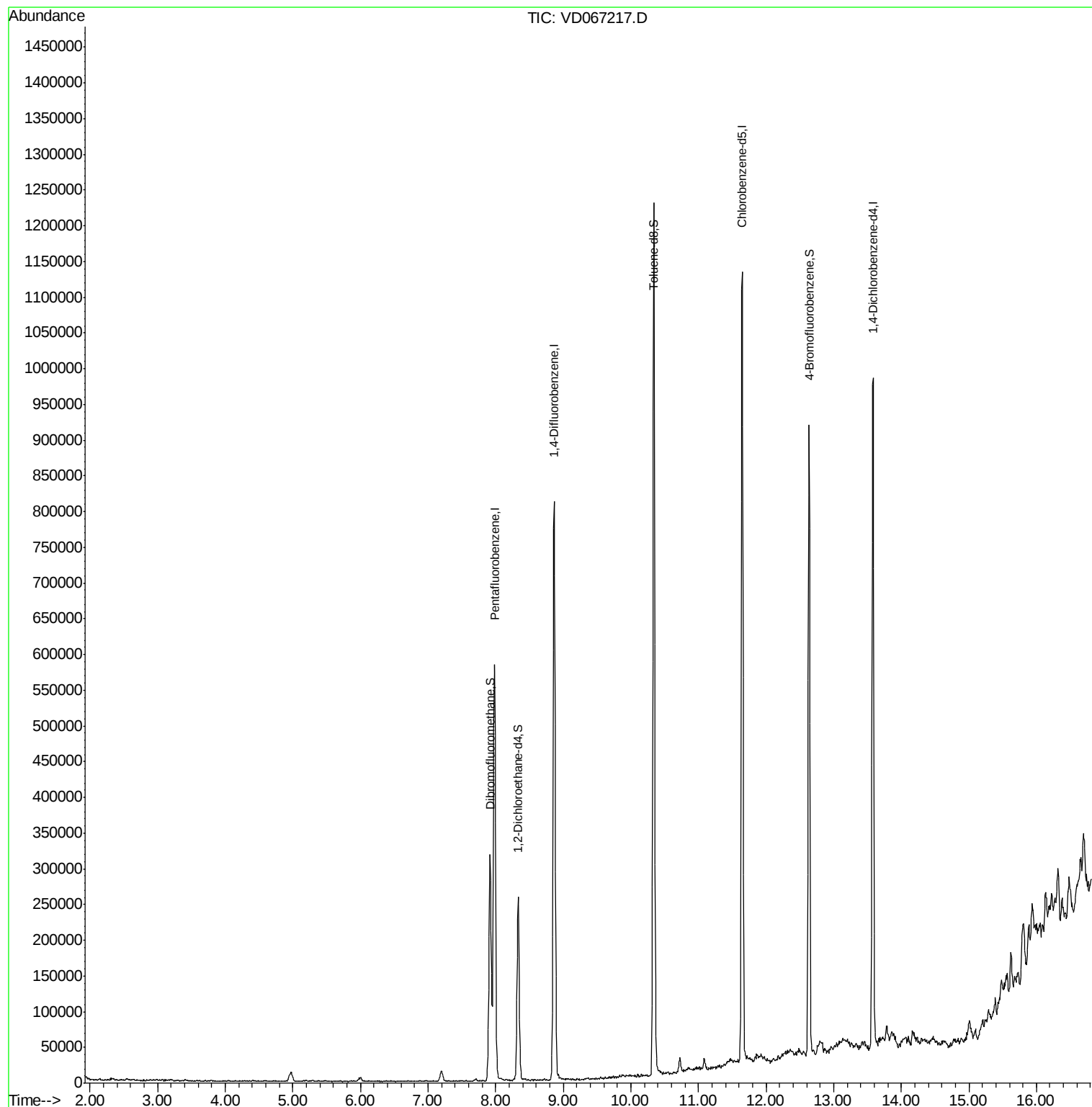
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

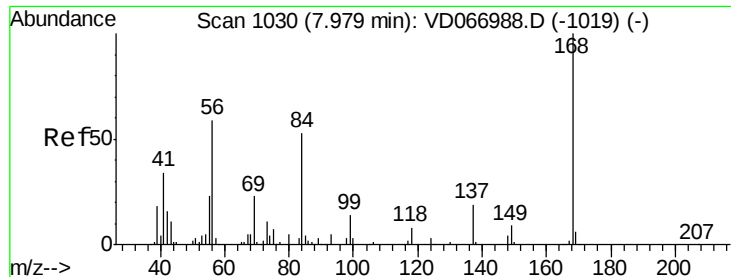
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration

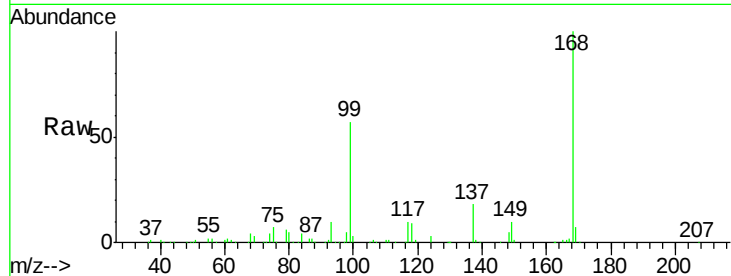




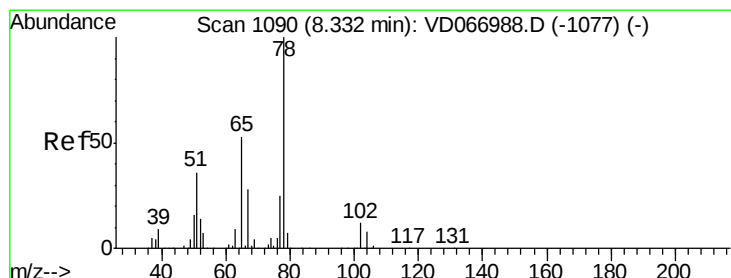
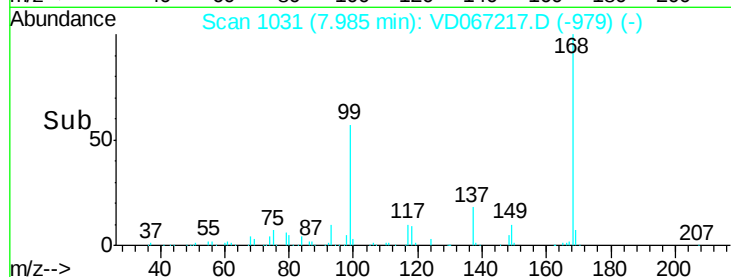
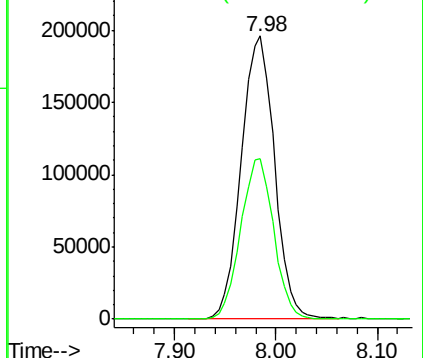
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.01 min  
Lab File: VD067217.D  
Acq: 09 Oct 2020 17:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
11991

Tot Ion:168 Resp: 447659  
Ion Ratio Lower Upper  
168 100  
99 56.8 44.1 66.1

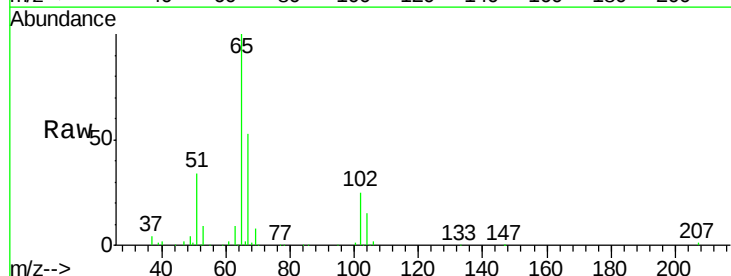


Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): VDC

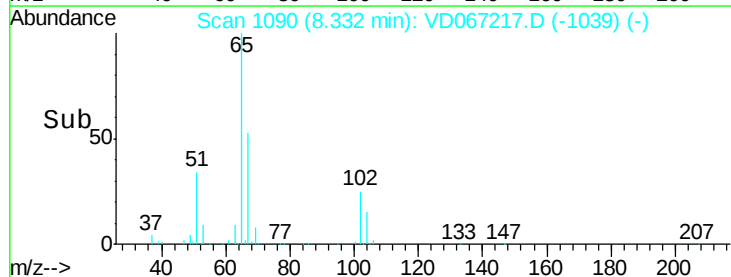
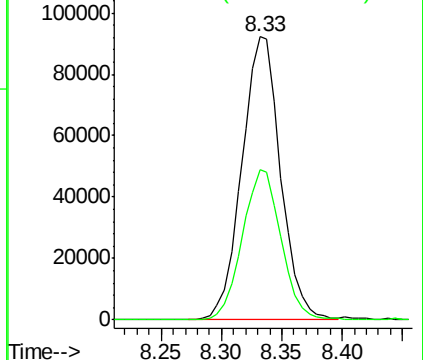


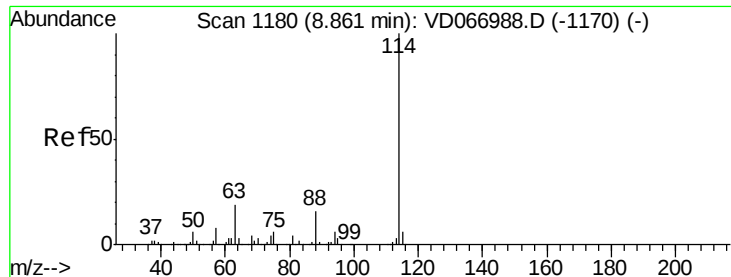
#33  
1,2-Dichloroethane-d4  
Concen: 47.780 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.00 min  
Lab File: VD067217.D  
Acq: 09 Oct 2020 17:45

Tgt Ion: 65 Resp: 206021  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

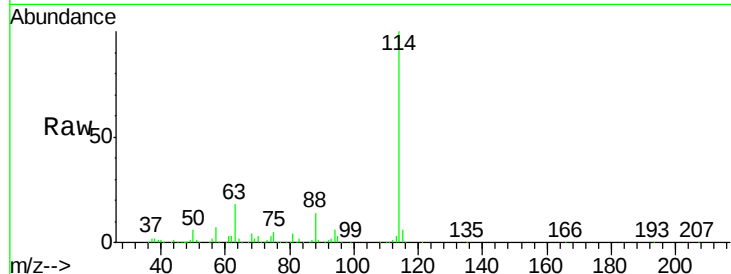




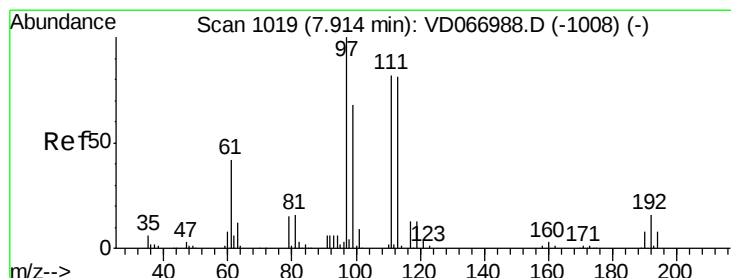
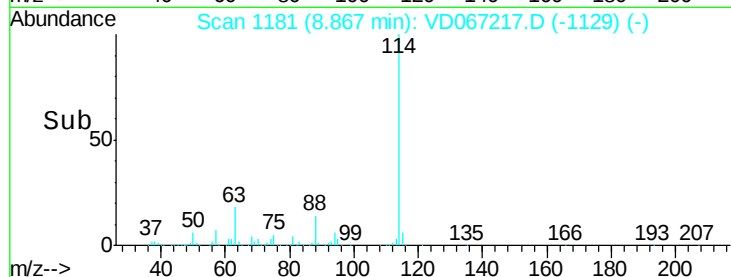
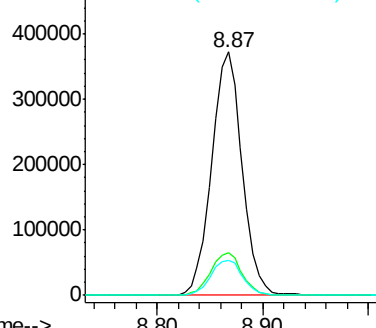
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.01 min  
 Lab File: VD067217.D  
 Acq: 09 Oct 2020 17:45

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 11991

Tot Ion:114 Resp: 743284  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 38.4  
 88 14.4 0.0 31.2

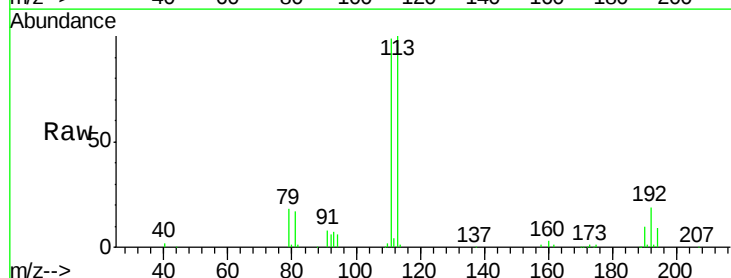


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

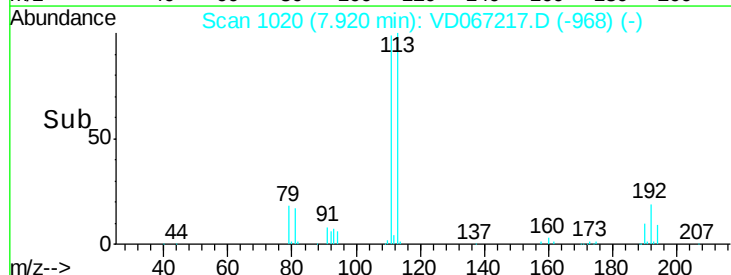
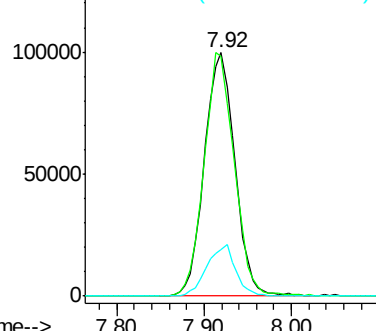


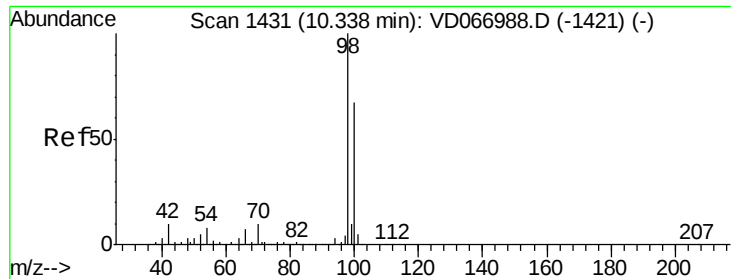
#35  
 Dibromofluoromethane  
 Concen: 48.453 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067217.D  
 Acq: 09 Oct 2020 17:45

Tgt Ion:113 Resp: 235780  
 Ion Ratio Lower Upper  
 113 100  
 111 98.6 83.0 124.4  
 192 19.8 15.5 23.3



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: 48.771 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD067217.D

Acq: 09 Oct 2020 17:45

Instrument :

MSVOA\_D

ClientSampled :

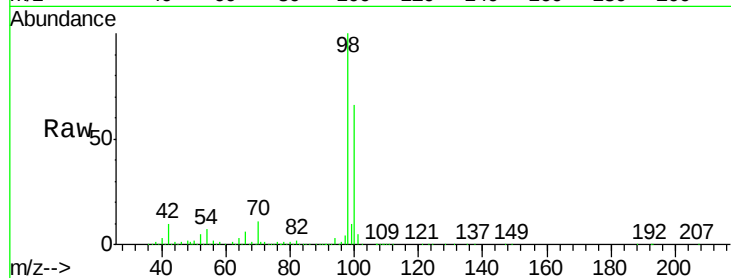
11991

Tot Ion: 98 Resp: 864790

Ion Ratio Lower Upper

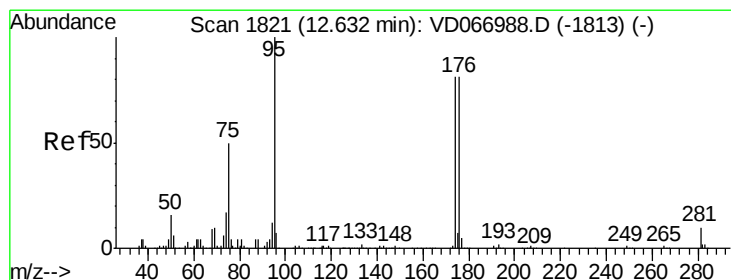
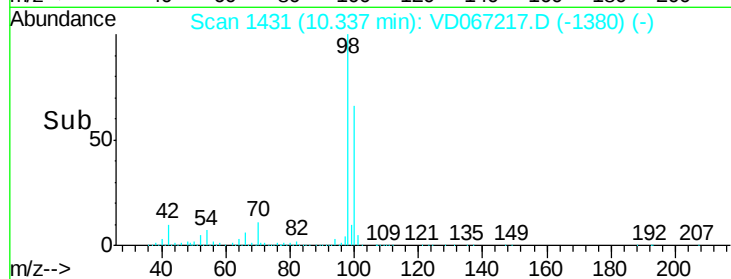
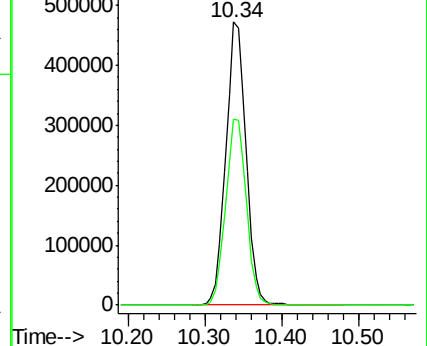
98 100

100 67.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.604 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067217.D

Acq: 09 Oct 2020 17:45

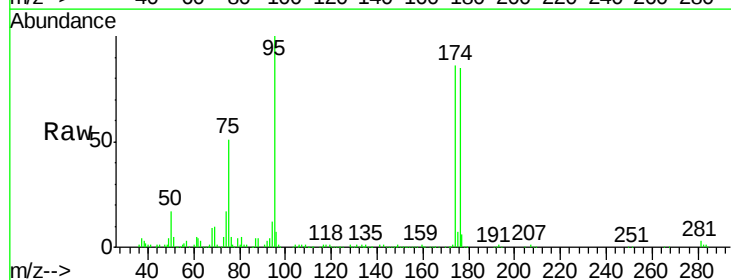
Tgt Ion: 95 Resp: 292571

Ion Ratio Lower Upper

95 100

174 85.9 0.0 167.6

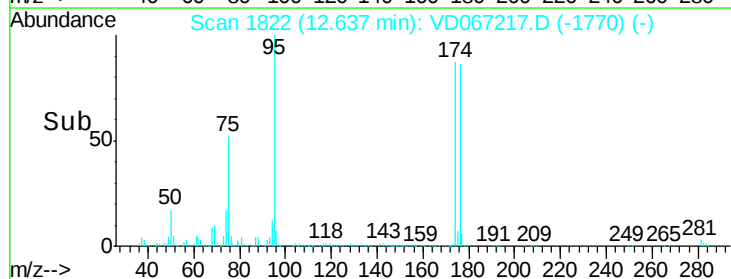
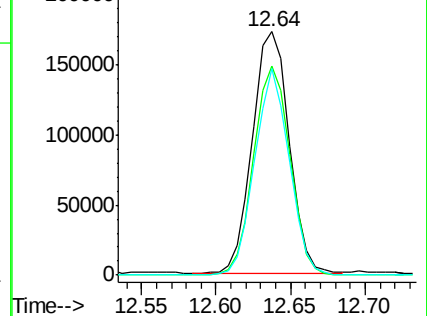
176 80.2 0.0 162.4

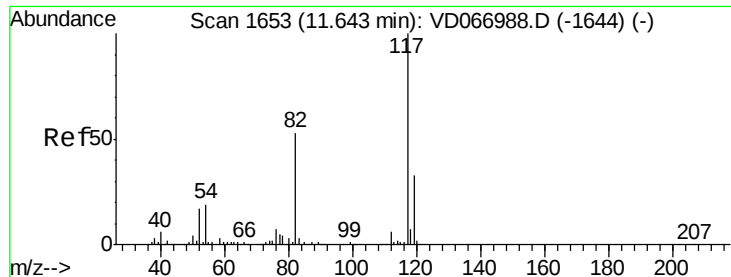


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

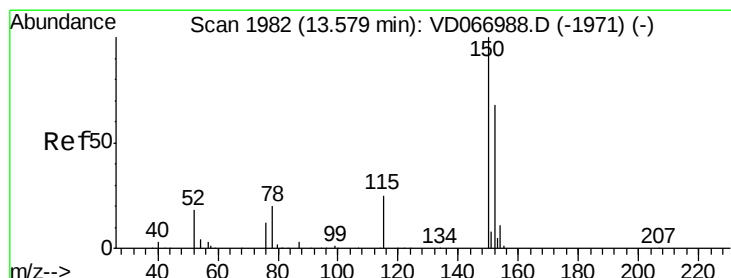
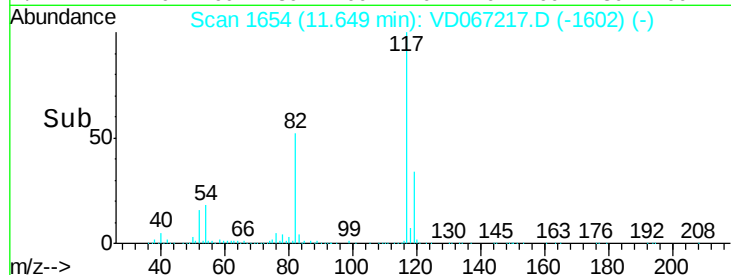
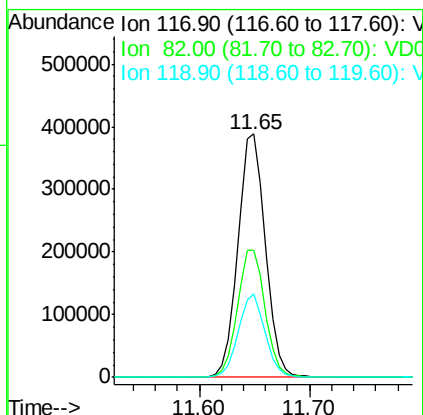
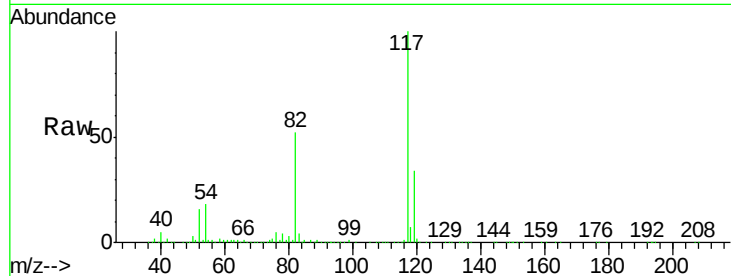




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.01 min  
Lab File: VD067217.D  
Acq: 09 Oct 2020 17:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
11991

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.2  | 42.6  | 63.8  |
| 119     | 34.3  | 26.3  | 39.5  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD067217.D  
Acq: 09 Oct 2020 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.6  | 29.6  | 88.8  |
| 150     | 156.2 | 0.0   | 344.8 |

