

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112020\  
 Data File : VD067729.D  
 Acq On : 20 Nov 2020 17:15  
 Operator : VA/SY  
 Sample : L4848-03  
 Misc : 5.22G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR5-1-BOTTOM

Quant Time: Nov 21 01:21:18 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 247320   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 379517   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 419831   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 221232   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 120746   | 55.84 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.68% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 118000   | 51.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.22% |      |
| 50) Toluene-d8              | 10.34  | 98  | 456945   | 56.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 113.74% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 188143   | 67.82 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 135.64% |      |

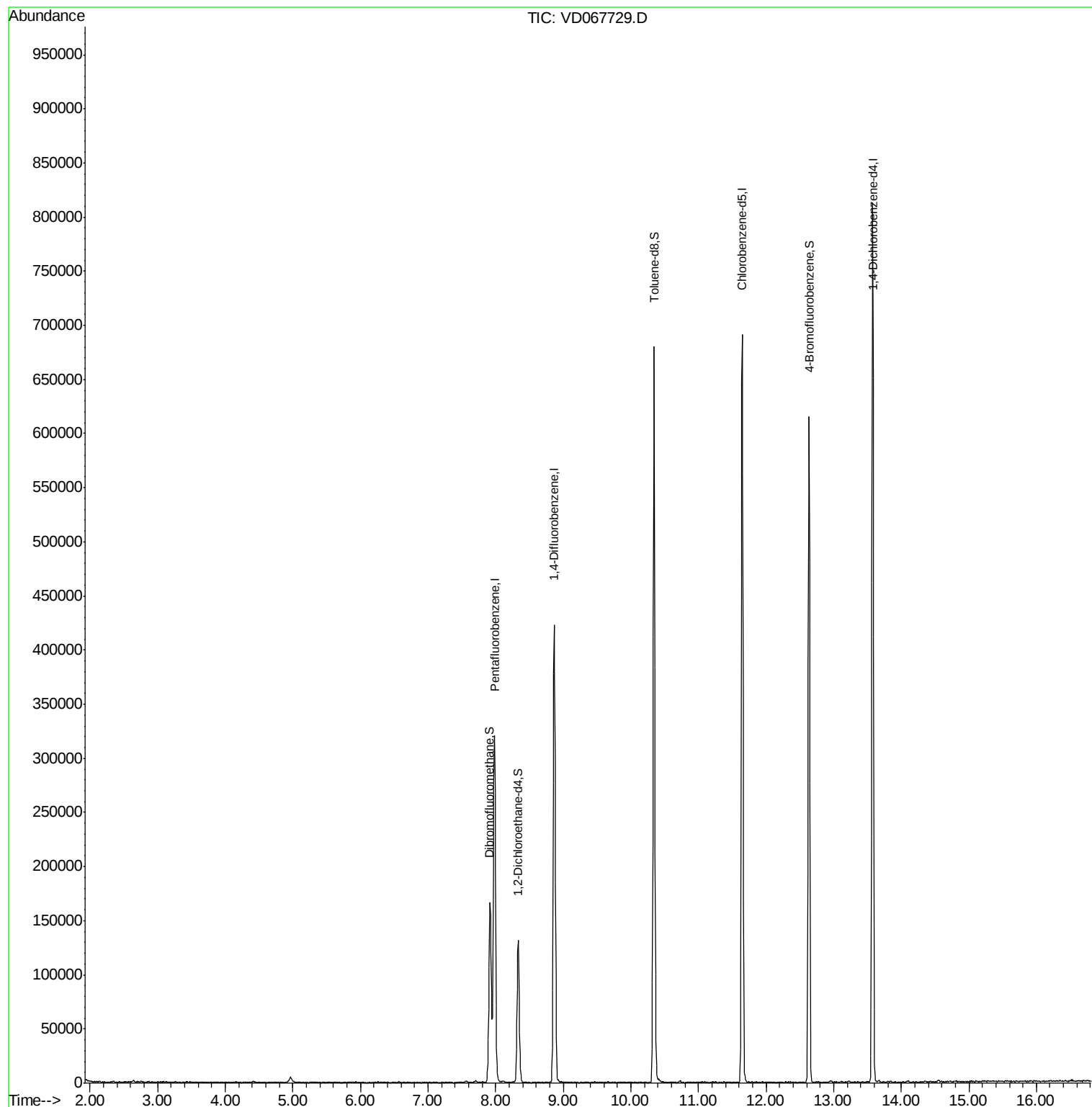
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

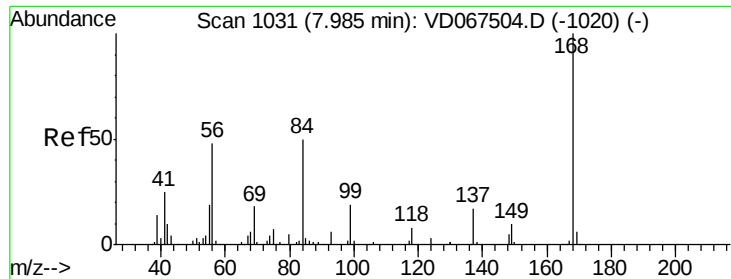
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067729.D

Acq: 20 Nov 2020 17:15

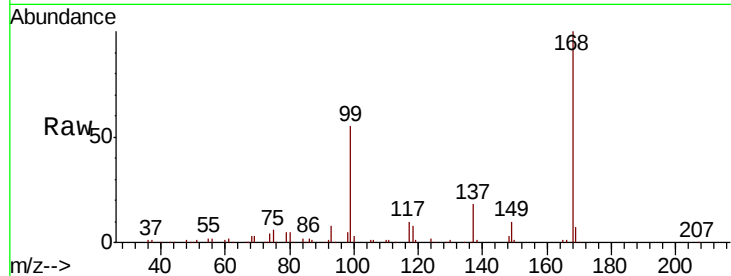
Instrument :  
MSVOA\_D  
ClientSampleId :  
TR5-1-BOTTOM

Tot Ion:168 Resp: 247320

Ion Ratio Lower Upper

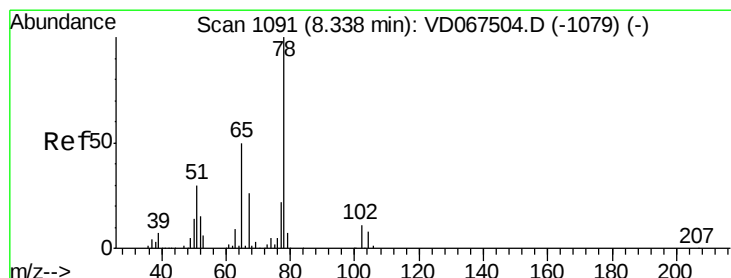
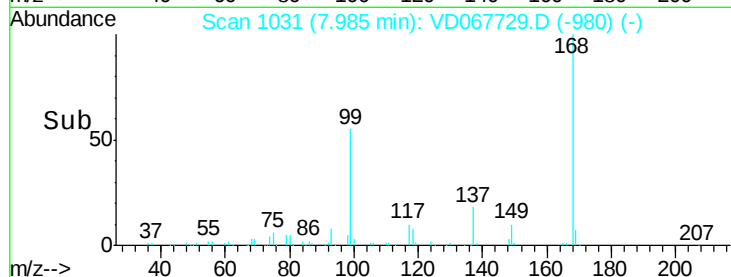
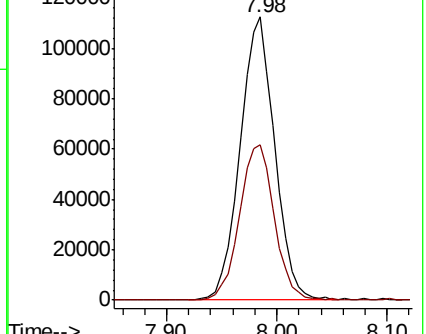
168 100

99 55.0 45.0 67.6



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: 55.835 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD067729.D

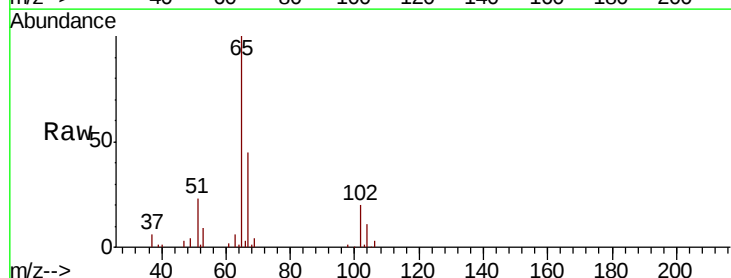
Acq: 20 Nov 2020 17:15

Tgt Ion: 65 Resp: 120746

Ion Ratio Lower Upper

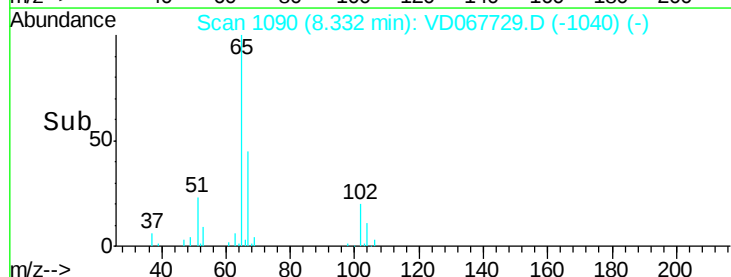
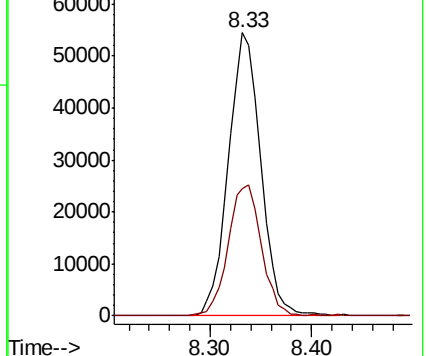
65 100

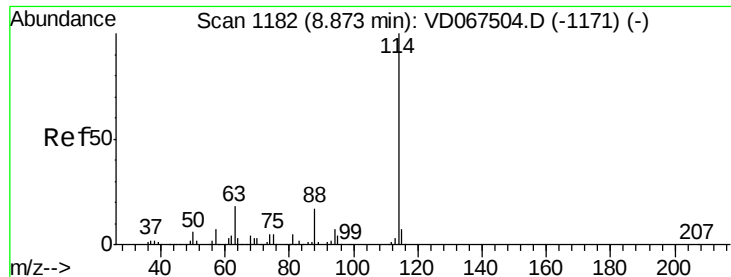
67 47.3 0.0 99.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

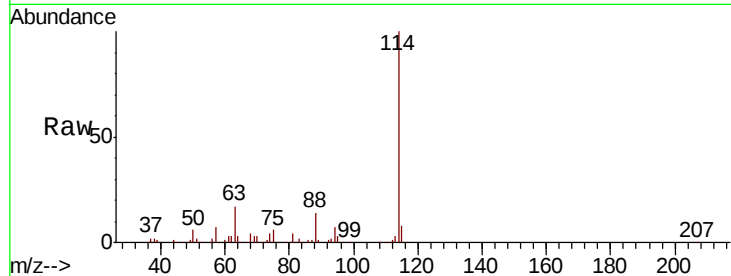




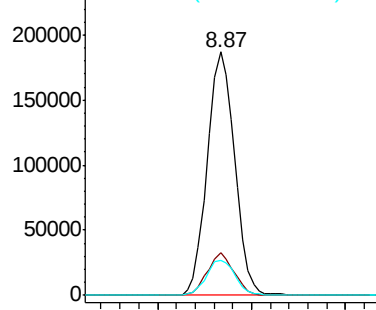
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.01 min  
 Lab File: VD067729.D  
 Acq: 20 Nov 2020 17:15

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TR5-1-BOTTOM

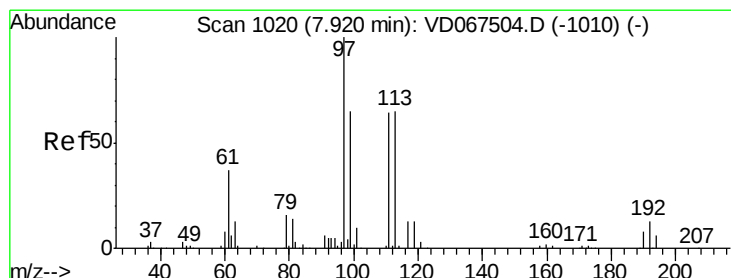
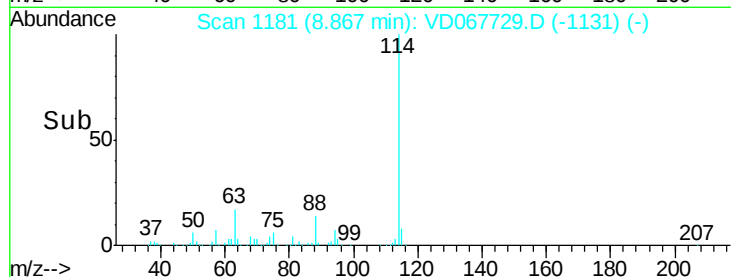
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 17.4  | 0.0   | 35.0  |
| 88      | 14.3  | 0.0   | 33.0  |



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

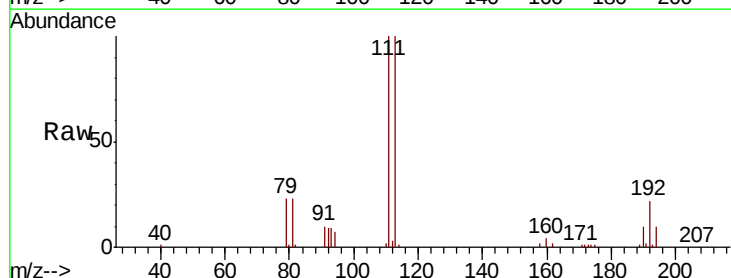


Time-->

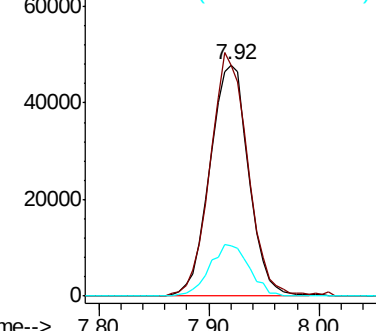


#35  
 Dibromofluoromethane  
 Concen: 51.605 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD067729.D  
 Acq: 20 Nov 2020 17:15

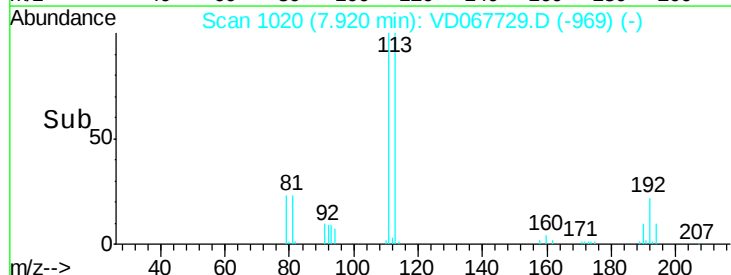
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 80.0  | 120.0 |
| 192     | 22.8  | 16.3  | 24.5  |

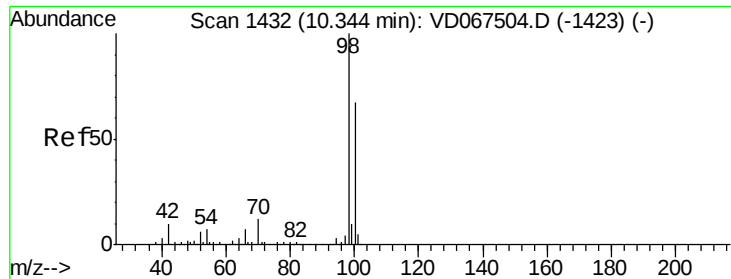


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V



Time-->





#50

Toluene-d8

Concen: 56.865 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD067729.D

Acq: 20 Nov 2020 17:15

Instrument :

MSVOA\_D

ClientSampleId :

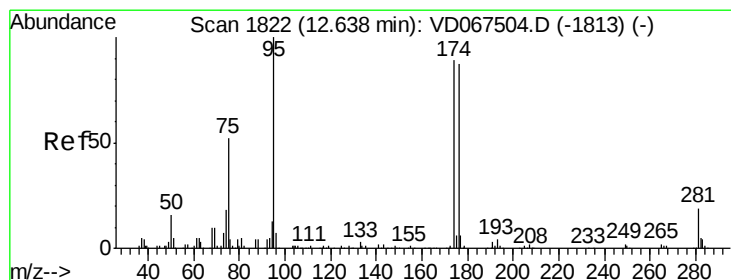
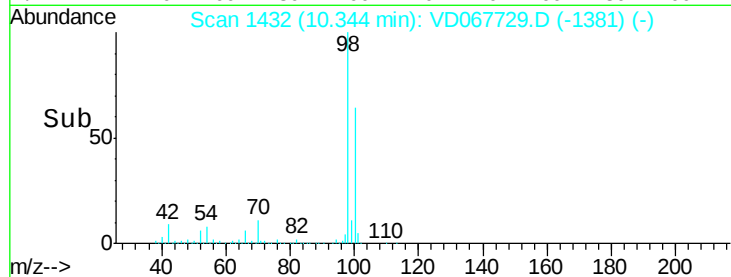
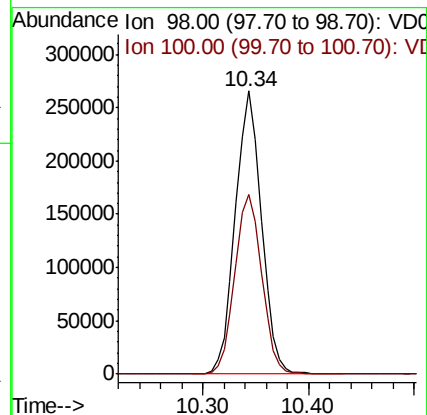
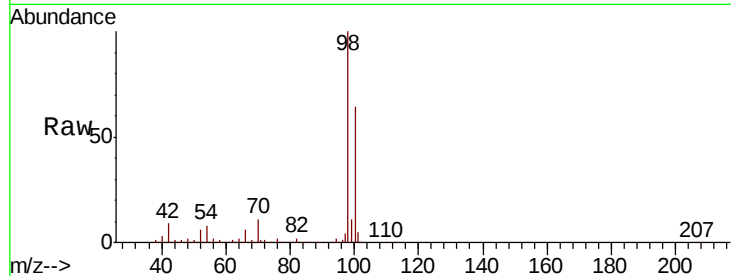
TR5-1-BOTTOM

Tot Ion: 98 Resp: 456945

Ion Ratio Lower Upper

98 100

100 64.9 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 67.818 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067729.D

Acq: 20 Nov 2020 17:15

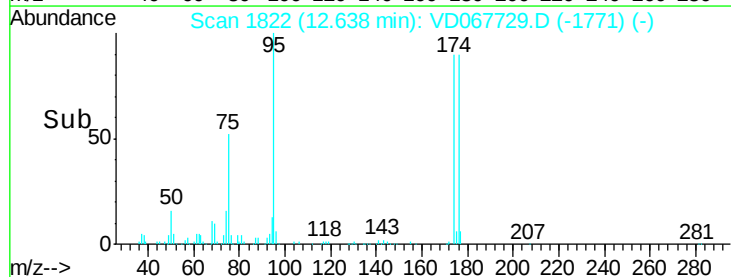
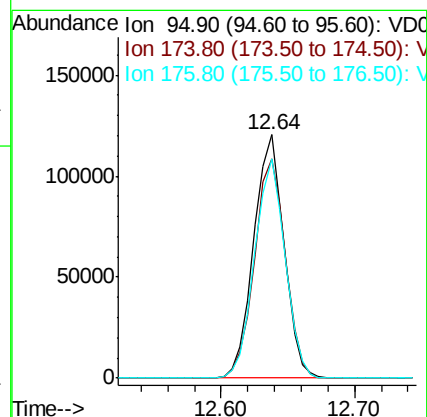
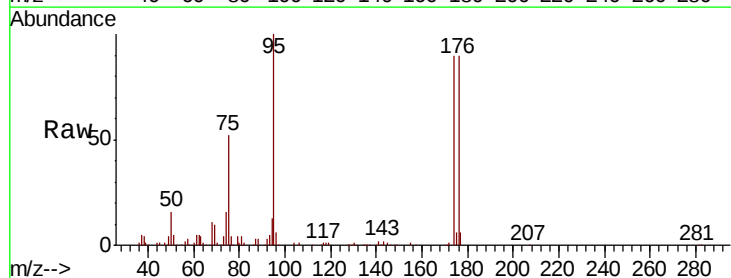
Tgt Ion: 95 Resp: 188143

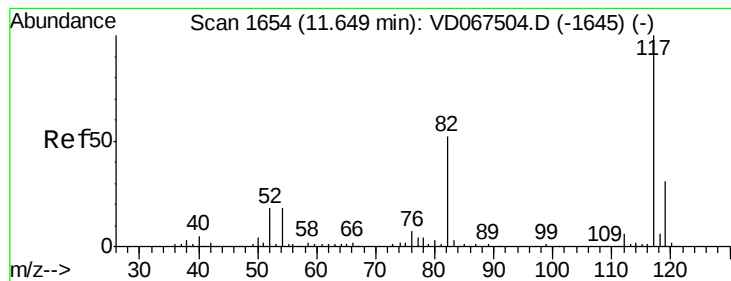
Ion Ratio Lower Upper

95 100

174 91.9 0.0 177.8

176 90.7 0.0 172.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD067729.D

Acq: 20 Nov 2020 17:15

Instrument :

MSVOA\_D

ClientSampleId :

TR5-1-BOTTOM

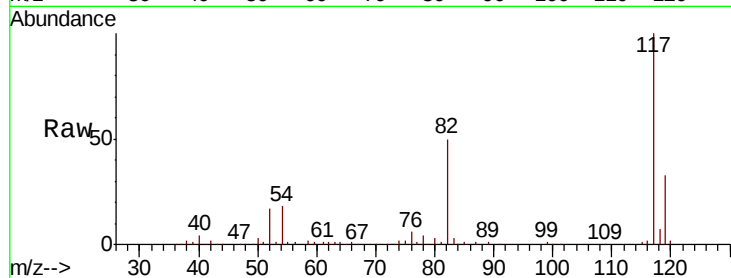
Tot Ion:117 Resp: 419831

Ion Ratio Lower Upper

117 100

82 50.5 41.6 62.4

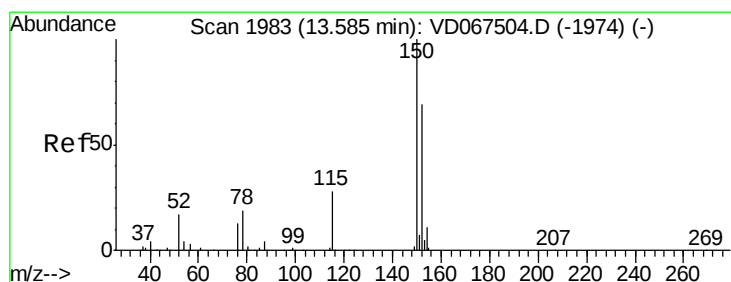
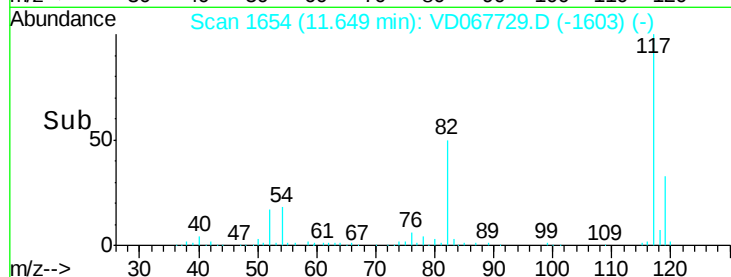
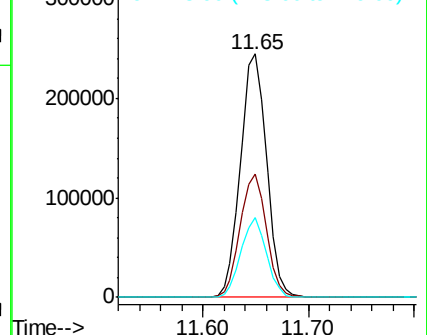
119 32.7 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067729.D

Acq: 20 Nov 2020 17:15

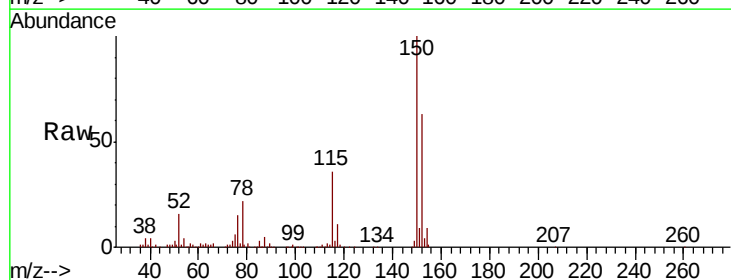
Tgt Ion:152 Resp: 221232

Ion Ratio Lower Upper

152 100

115 59.2 29.3 88.0

150 160.3 0.0 338.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

