

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\  
 Data File : VD058330.D  
 Acq On : 23 Jun 2018 8:58  
 Operator : VA/AP  
 Sample : J3582-08RE  
 Misc : 5.03g/5ml/MSVOA D/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SSP-C-2-GRABRE

Quant Time: Jun 25 01:36:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 499519   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 6.71  | 114  | 858698   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 10.70 | 117  | 690017   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 280615   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 354174   | 70.20 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 140.40% |          |
| 35) Dibromofluoromethane    | 5.57  | 113  | 379010   | 54.23 | ug/l    | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.46% |          |
| 50) Toluene-d8              | 8.72  | 98   | 711295   | 42.07 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.14%  |          |
| 62) 4-Bromofluorobenzene    | 11.94 | 95   | 278667   | 40.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 80.68%  |          |

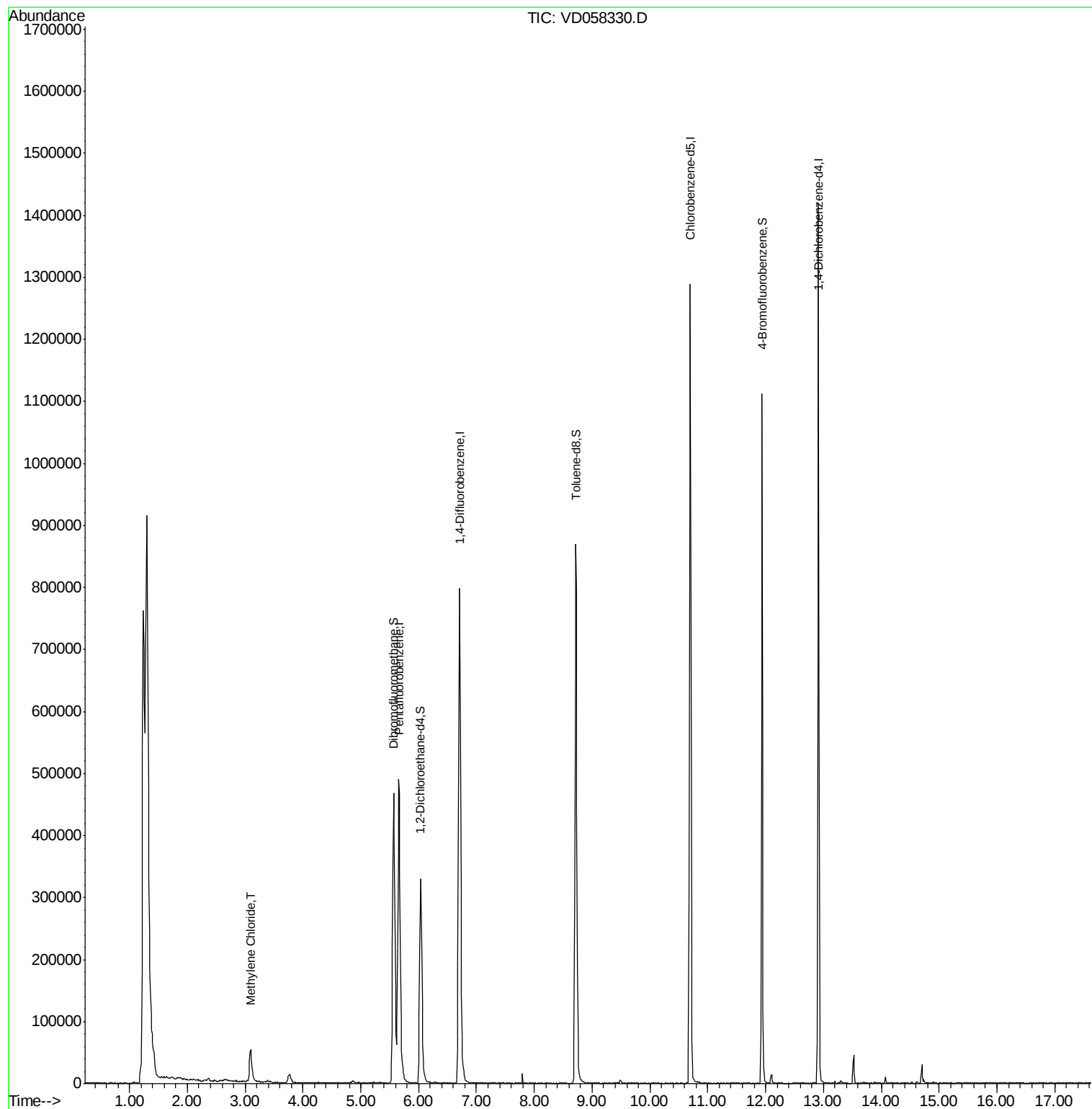
| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------------------|------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 3.10 | 84   | 27802    | 11.79 | ug/l  | # 84   |

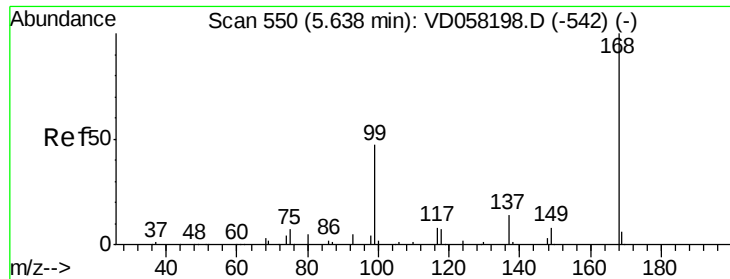
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 20 05:52:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058330.D

Acq: 23 Jun 2018 8:58

Instrument :

MSVOA\_D

ClientSampleId :

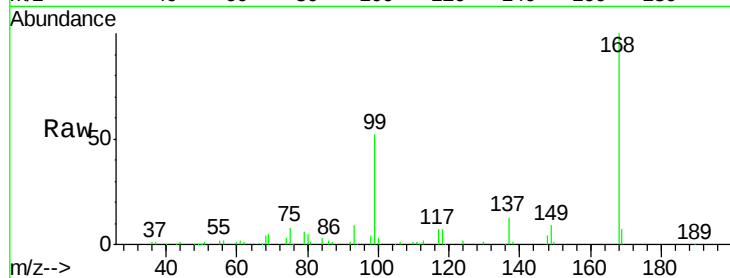
SSP-C-2-GRABRE

Tot Ion:168 Resp: 499519

Ion Ratio Lower Upper

168 100

99 51.7 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

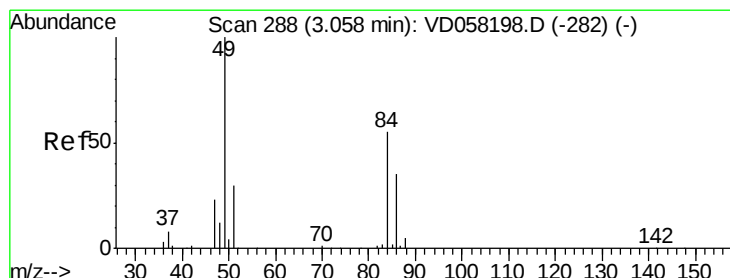
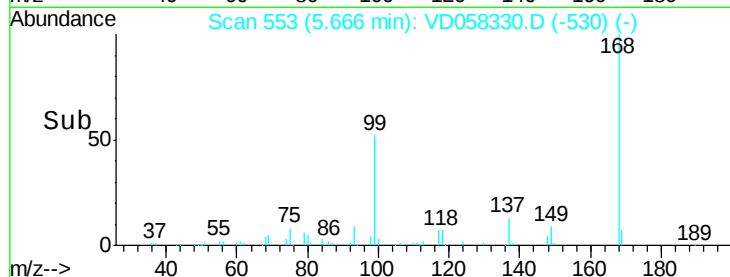
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#20

Methylene Chloride

Concen: 11.79 ug/l

RT: 3.10 min Scan# 292

Delta R.T. 0.04 min

Lab File: VD058330.D

Acq: 23 Jun 2018 8:58

Tgt Ion: 84 Resp: 27802

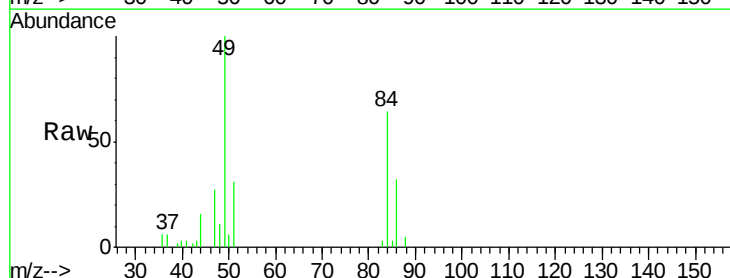
Ion Ratio Lower Upper

84 100

49 155.5 145.0 217.6

51 48.6 42.9 64.3

86 49.7 50.1 75.1#



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

25000

20000

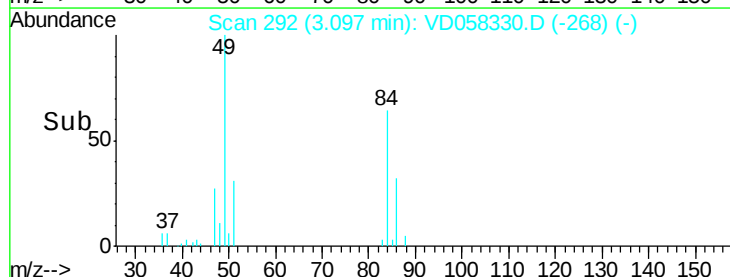
15000

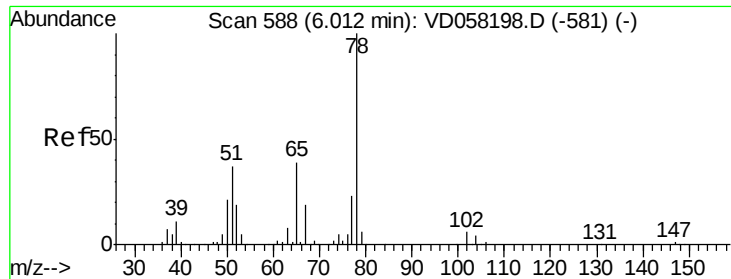
10000

5000

0

Time--> 3.00 3.10 3.20

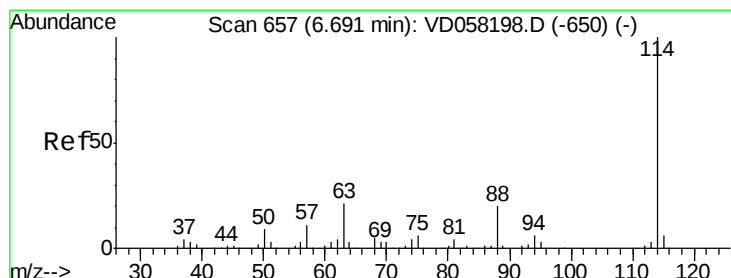
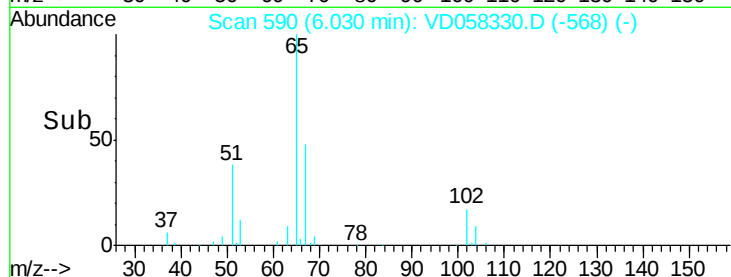
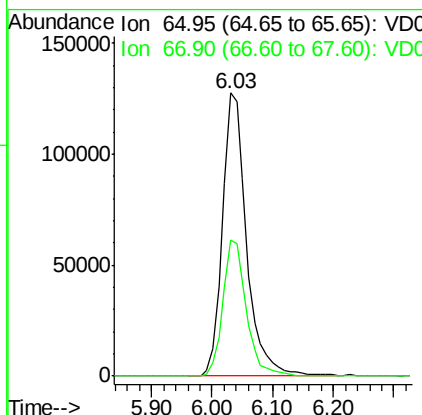
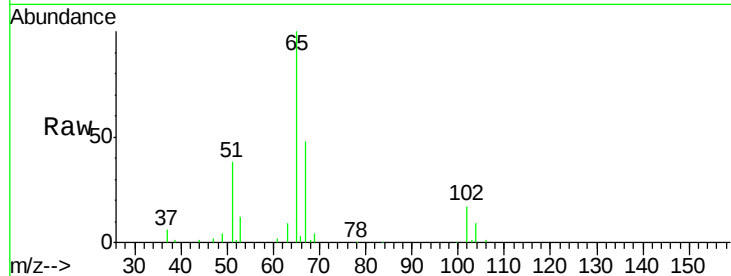




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 6.03 min Scan# 590  
 Delta R.T. 0.02 min  
 Lab File: VD058330.D  
 Acq: 23 Jun 2018 8:58

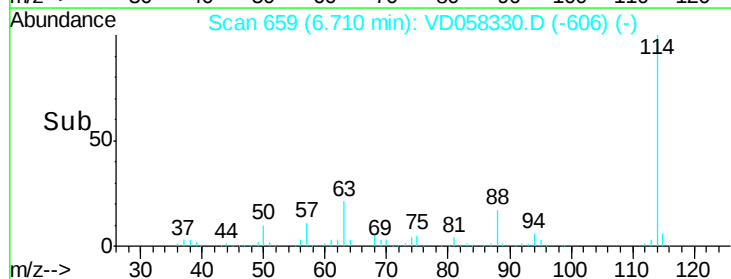
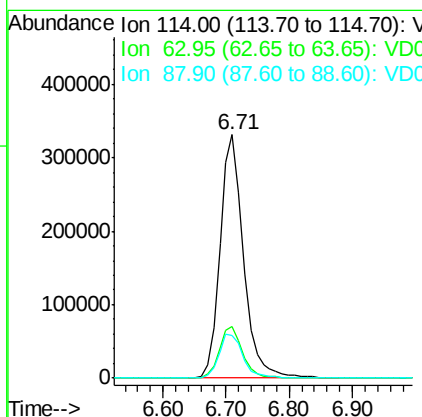
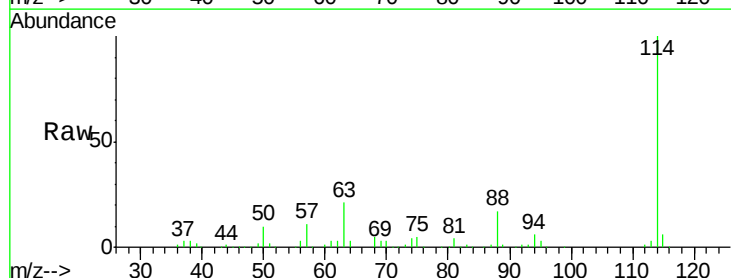
Instrument :  
 MSVOA\_D  
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 SSP-C-2-GRABRE

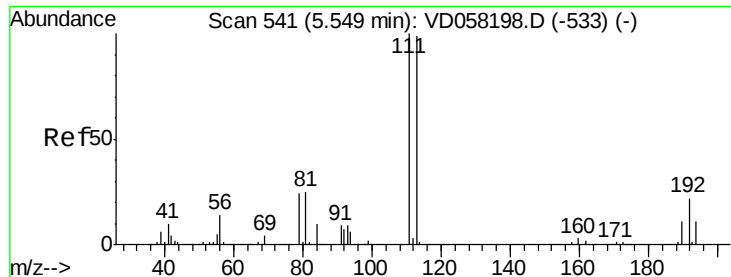
Tot Ion: 65 Resp: 354174  
 Ion Ratio Lower Upper  
 65 100  
 67 48.0 0.0 97.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.71 min Scan# 659  
 Delta R.T. 0.02 min  
 Lab File: VD058330.D  
 Acq: 23 Jun 2018 8:58

Tgt Ion: 114 Resp: 858698  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 42.6  
 88 17.4 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058330.D

Acq: 23 Jun 2018 8:58

Instrument :

MSVOA\_D

ClientSampleId :

SSP-C-2-GRABRE

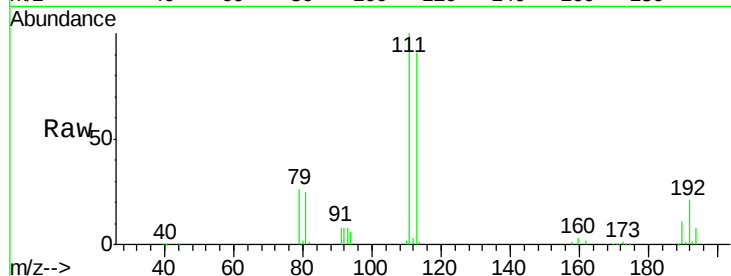
Tot Ion:113 Resp: 379010

Ion Ratio Lower Upper

113 100

111 109.6 80.6 121.0

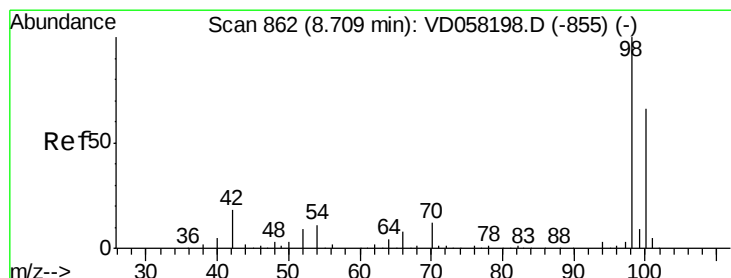
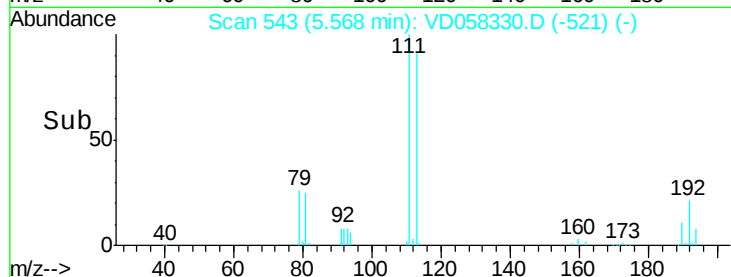
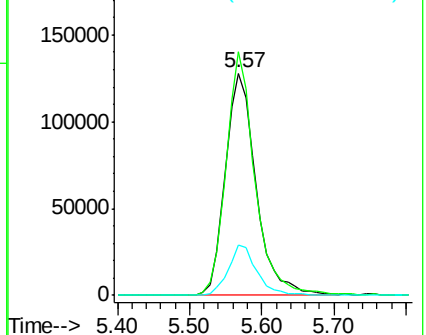
192 22.5 17.8 26.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058330.D

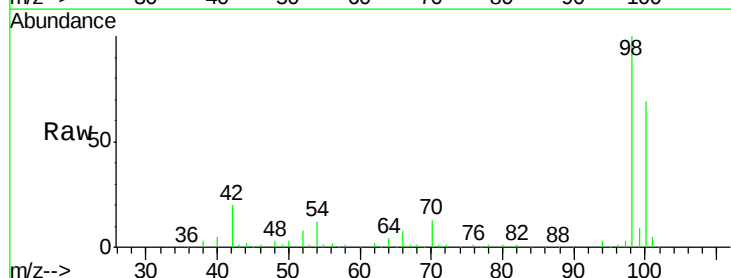
Acq: 23 Jun 2018 8:58

Tgt Ion: 98 Resp: 711295

Ion Ratio Lower Upper

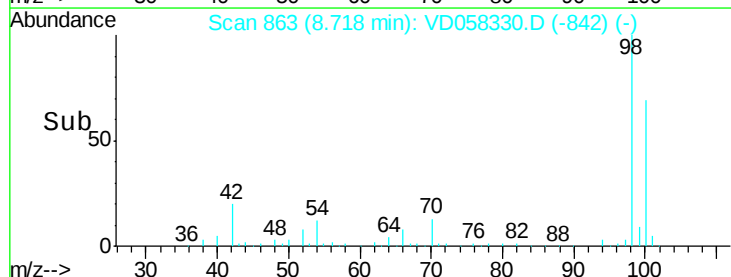
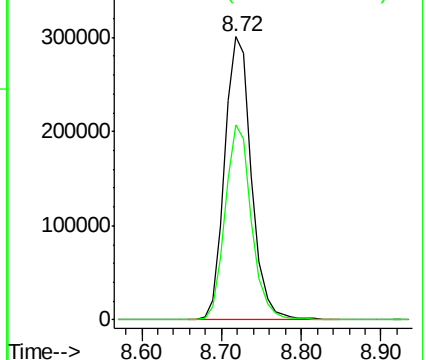
98 100

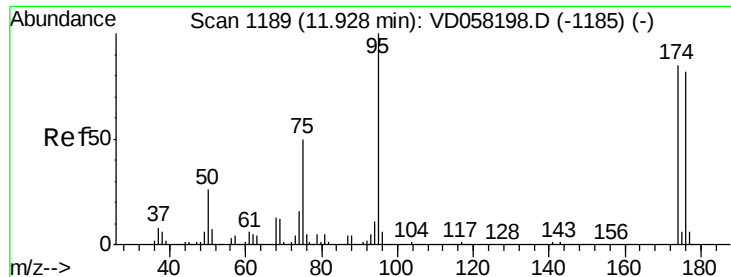
100 68.8 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

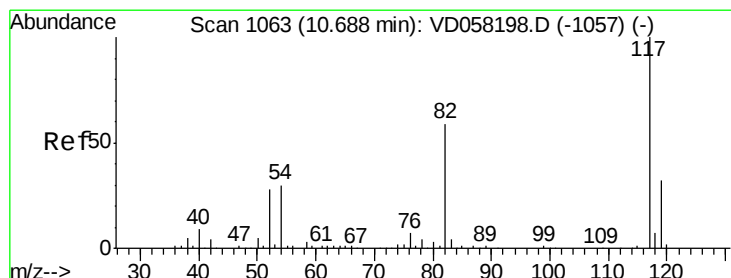
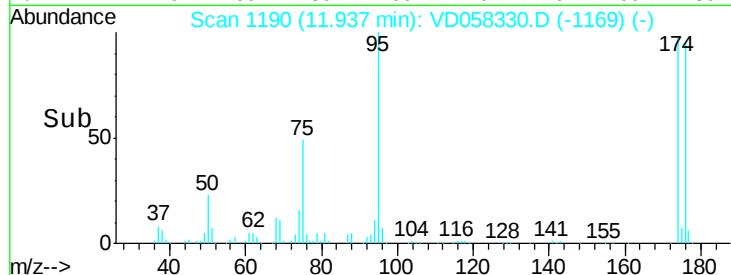
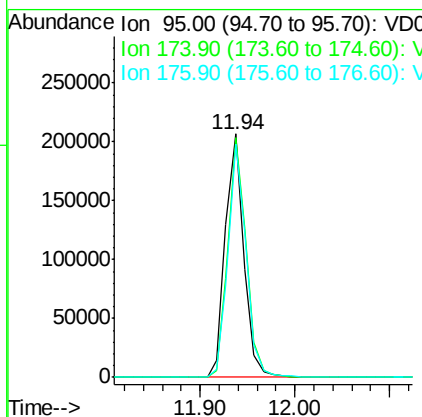
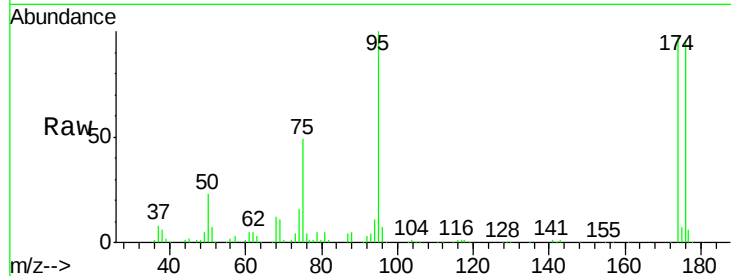




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.94 min Scan# 1190  
Delta R.T. 0.01 min  
Lab File: VD058330.D  
Acq: 23 Jun 2018 8:58

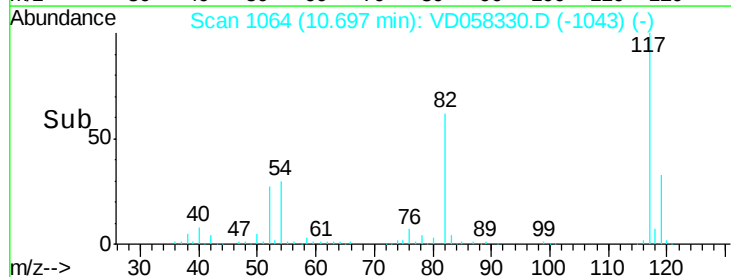
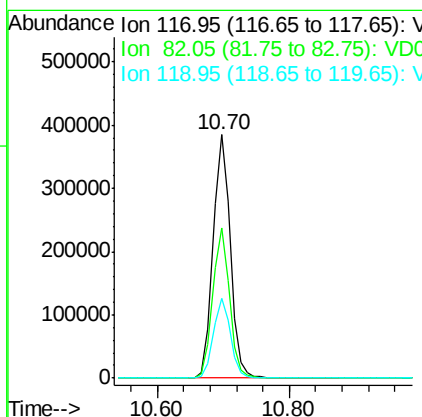
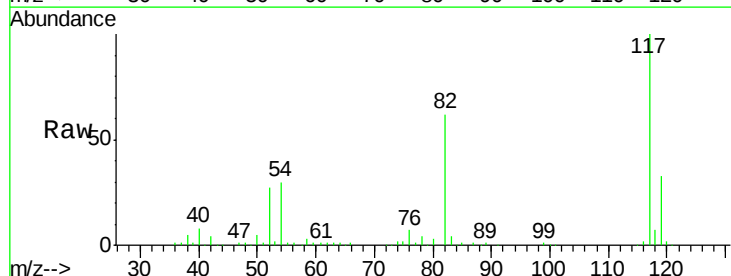
Instrument :  
MSVOA\_D  
ClientSampleId :  
SSP-C-2-GRABRE

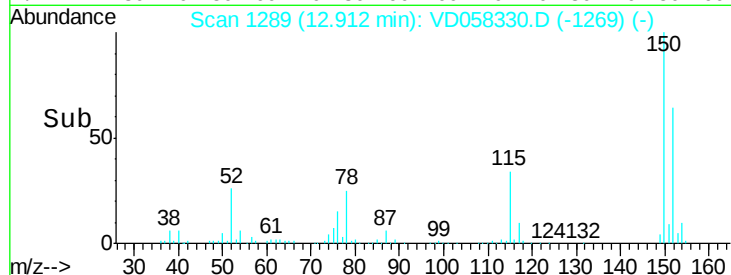
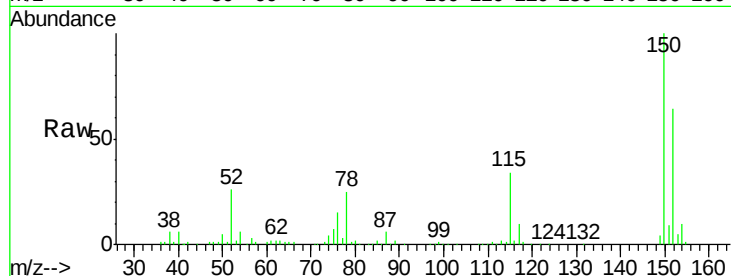
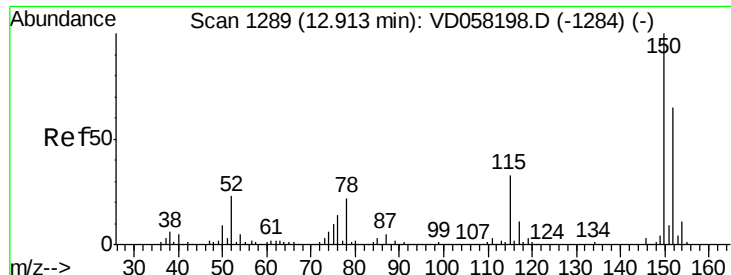
Tot Ion: 95 Resp: 278667  
Ion Ratio Lower Upper  
95 100  
174 98.4 0.0 170.2  
176 95.6 0.0 164.6



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.70 min Scan# 1064  
Delta R.T. 0.01 min  
Lab File: VD058330.D  
Acq: 23 Jun 2018 8:58

Tgt Ion: 117 Resp: 690017  
Ion Ratio Lower Upper  
117 100  
82 61.9 47.0 70.6  
119 32.7 25.3 37.9





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.91 min Scan# 1289  
 Delta R.T. -0.00 min  
 Lab File: VD058330.D  
 Acq: 23 Jun 2018 8:58

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SSP-C-2-GRABRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.5  | 25.1  | 75.3  |
| 150     | 155.5 | 0.0   | 308.8 |

