

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\  
 Data File : VU027155.D  
 Acq On : 26 Sep 2018 02:52  
 Operator : MD/SY  
 Sample : J4980-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW304D-20180917

Quant Time: Sep 26 07:21:33 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 89834    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 153219   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 147215   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 66467    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 97200    | 53.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.52% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 67111    | 50.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.06% |          |
| 50) Toluene-d8              | 7.57  | 98   | 246392   | 48.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.36%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 77859    | 44.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.66%  |          |

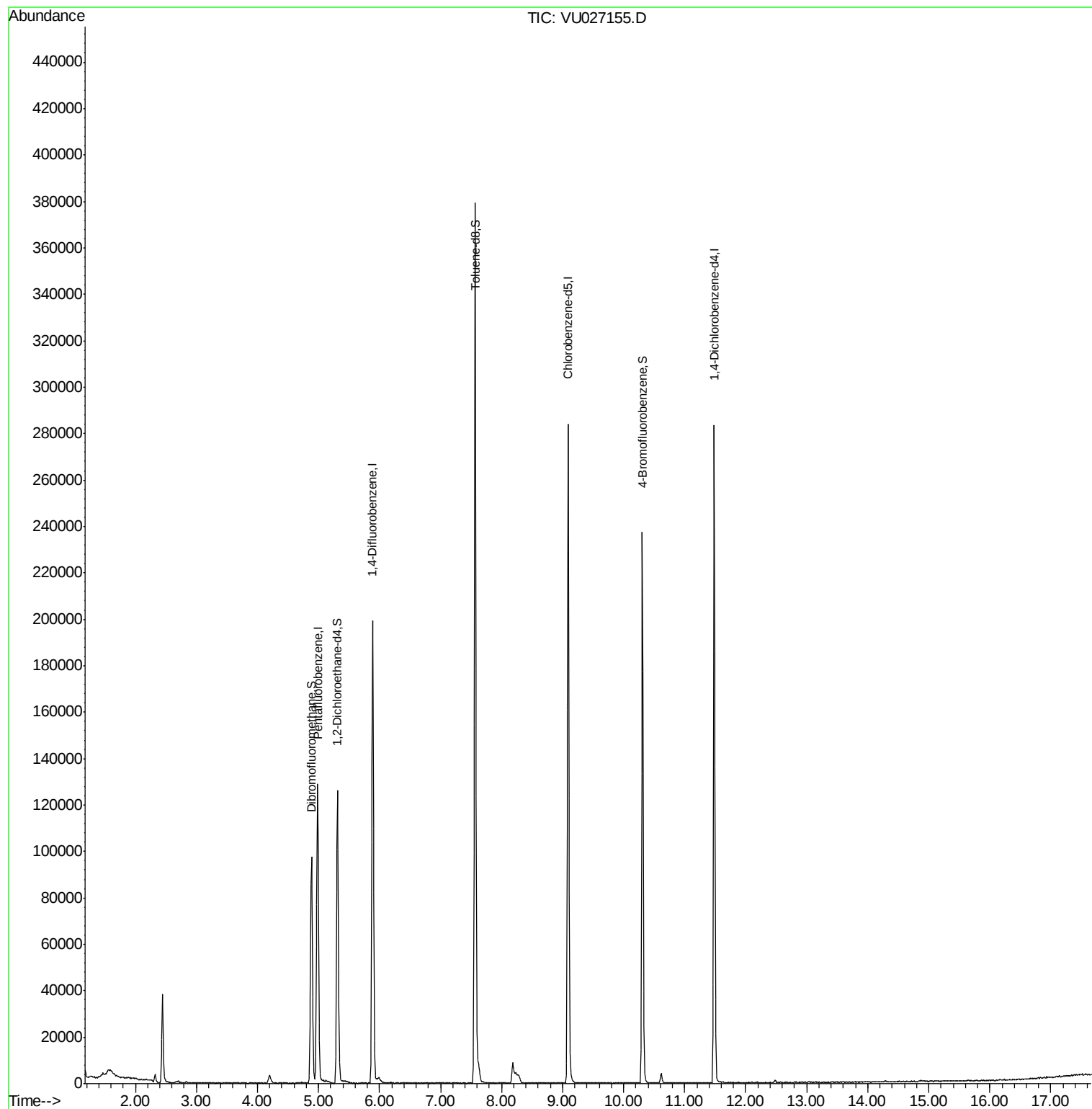
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

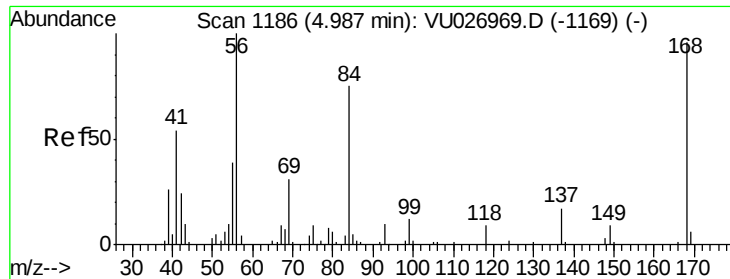
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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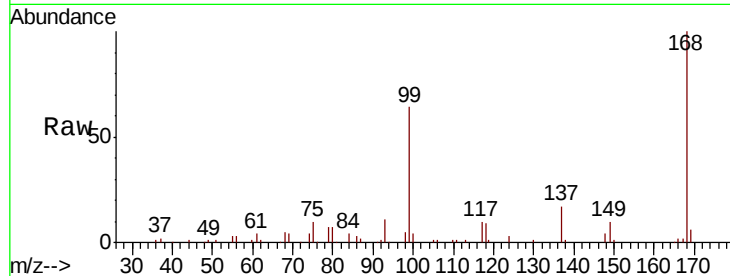




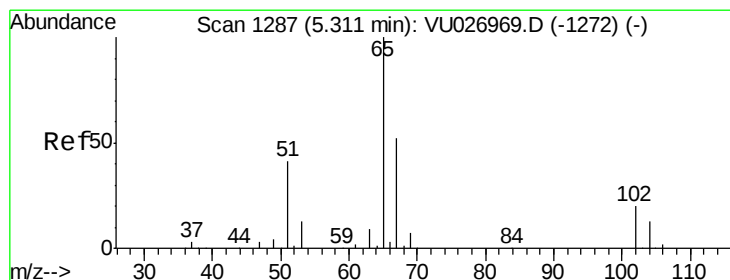
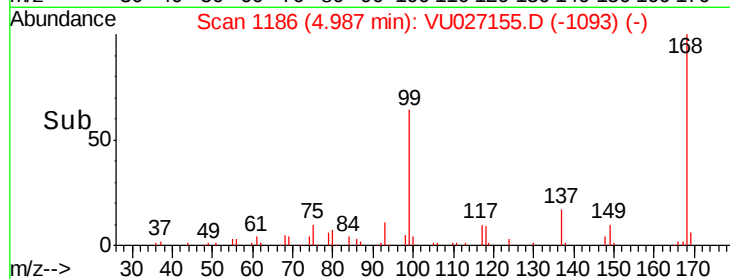
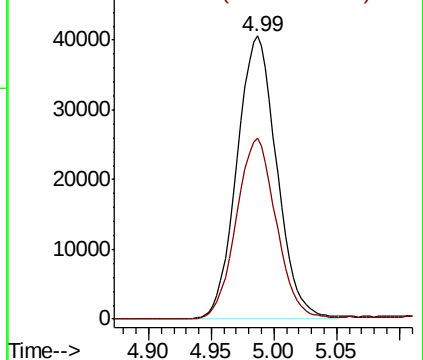
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. 0.00 min  
Lab File: VU027155.D  
Acq: 26 Sep 2018 02:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW304D-20180917

Tot Ion:168 Resp: 89834  
Ion Ratio Lower Upper  
168 100  
99 63.8 48.1 72.1

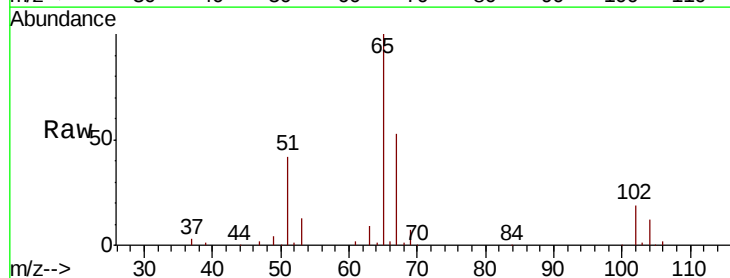


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)  
Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

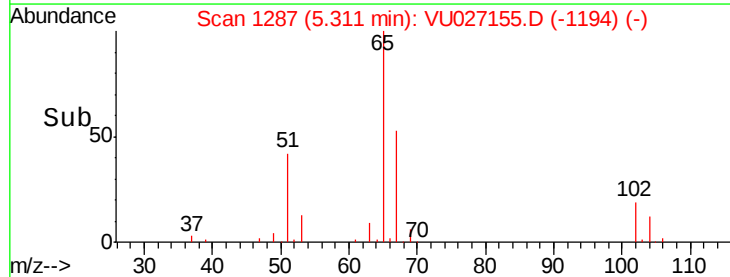
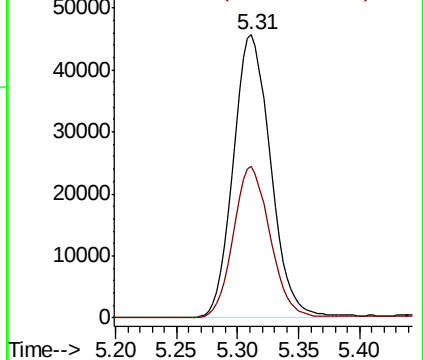


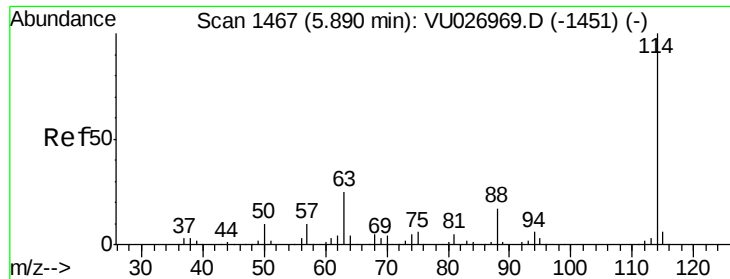
#33  
1,2-Dichloroethane-d4  
Concen: 53.759 ug/l  
RT: 5.31 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: VU027155.D  
Acq: 26 Sep 2018 02:52

Tgt Ion: 65 Resp: 97200  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)  
Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

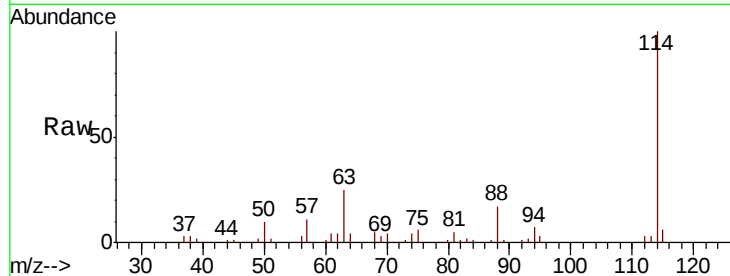




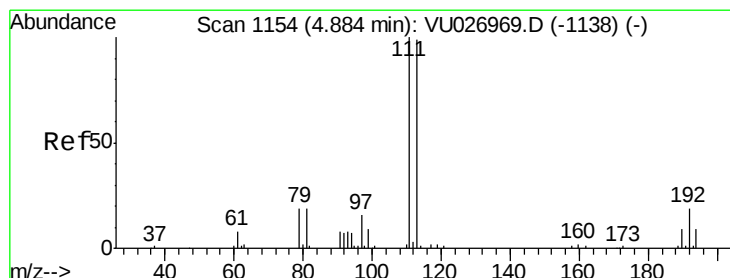
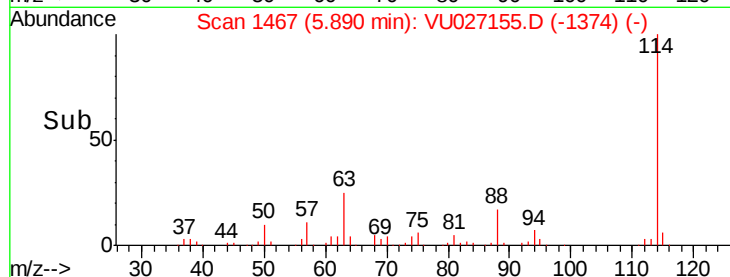
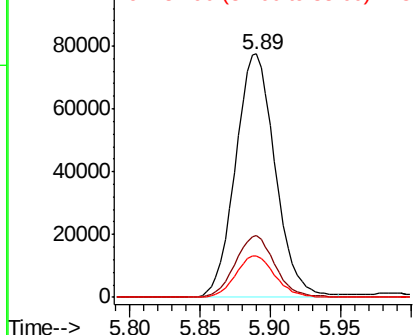
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027155.D  
 Acq: 26 Sep 2018 02:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BPSI-TT-MW304D-20180917

Tot Ion:114 Resp: 153219  
 Ion Ratio Lower Upper  
 114 100  
 63 25.5 0.0 49.2  
 88 16.8 0.0 33.8

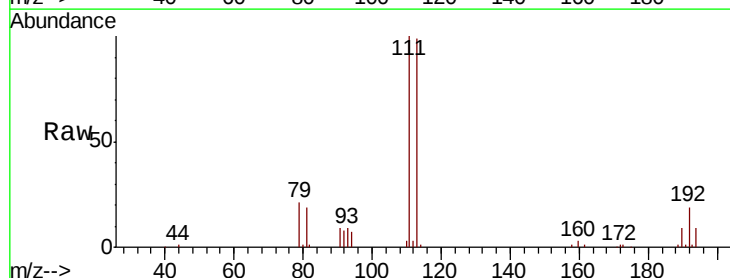


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

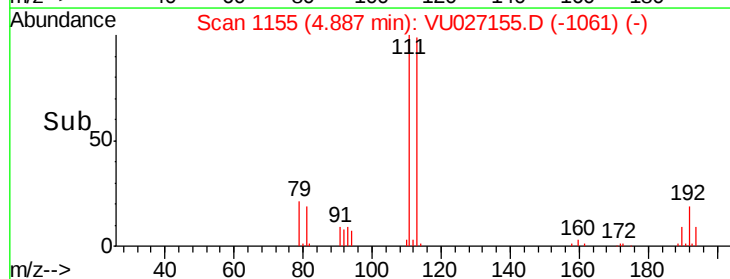
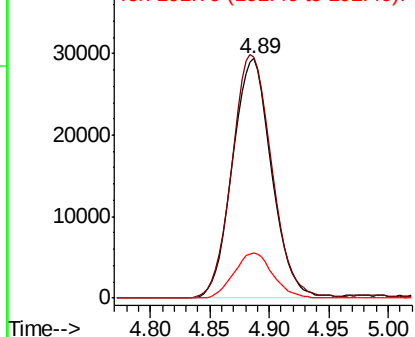


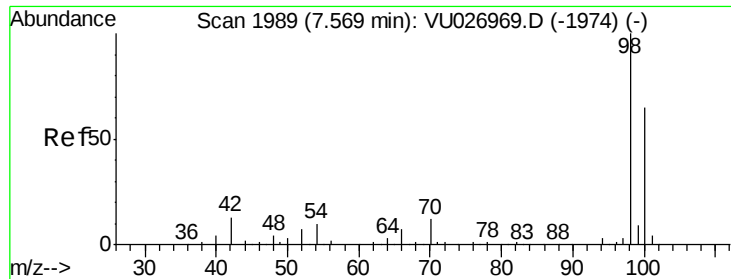
#35  
 Dibromofluoromethane  
 Concen: 50.531 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027155.D  
 Acq: 26 Sep 2018 02:52

Tgt Ion:113 Resp: 67111  
 Ion Ratio Lower Upper  
 113 100  
 111 103.1 82.2 123.4  
 192 18.5 15.2 22.8



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: 48.680 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027155.D

Acq: 26 Sep 2018 02:52

Instrument :

MSVOA\_U

ClientSampleId :

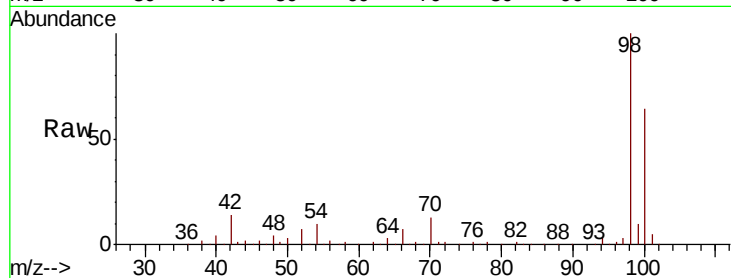
BPSI-TT-MW304D-20180917

Tot Ion: 98 Resp: 246392

Ion Ratio Lower Upper

98 100

100 62.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

150000

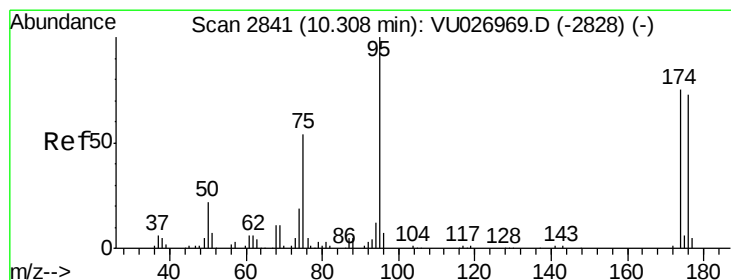
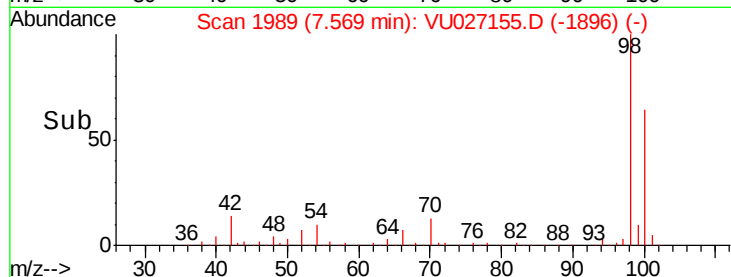
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#62

4-Bromofluorobenzene

Concen: 44.830 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027155.D

Acq: 26 Sep 2018 02:52

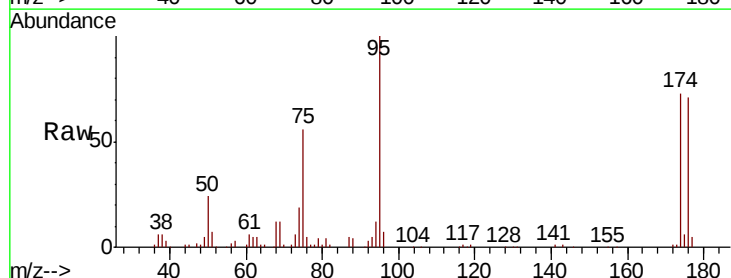
Tgt Ion: 95 Resp: 77859

Ion Ratio Lower Upper

95 100

174 73.2 0.0 150.2

176 70.7 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

10.31

60000

50000

40000

30000

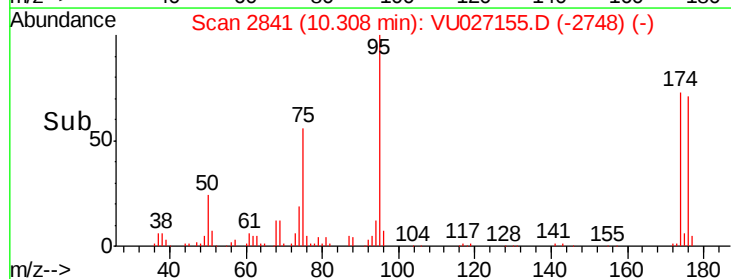
20000

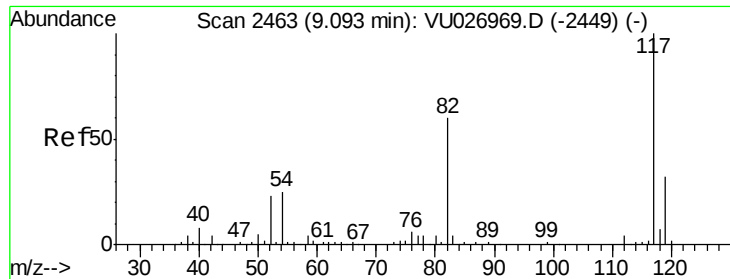
10000

0

10.30 10.40

Time-->

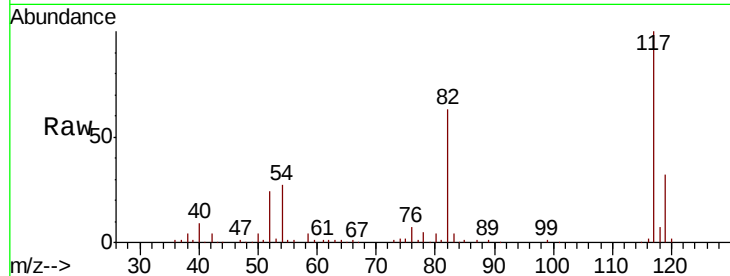




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027155.D  
Acq: 26 Sep 2018 02:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
BPSI-TT-MW304D-20180917

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.0  | 48.0  | 72.0  |
| 119     | 31.6  | 25.8  | 38.8  |

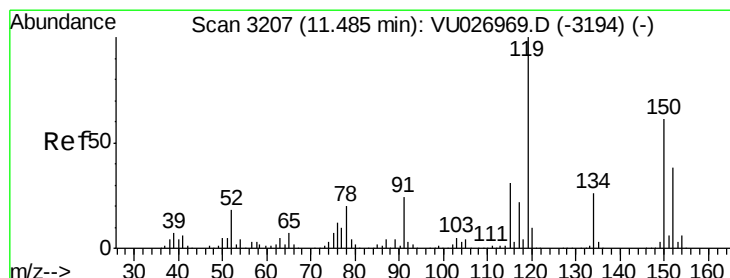
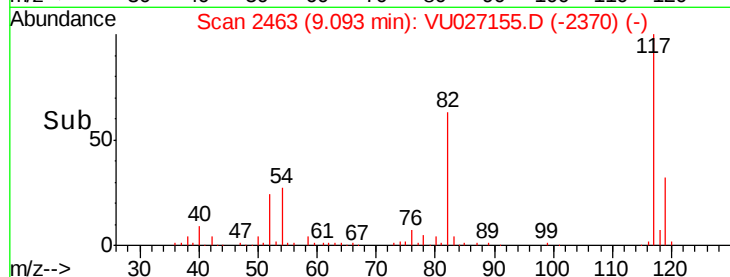
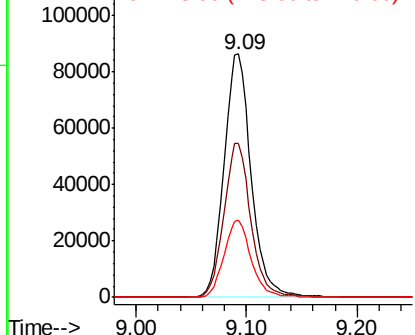


Abundance

Ion 116.90 (116.60 to 117.60): V

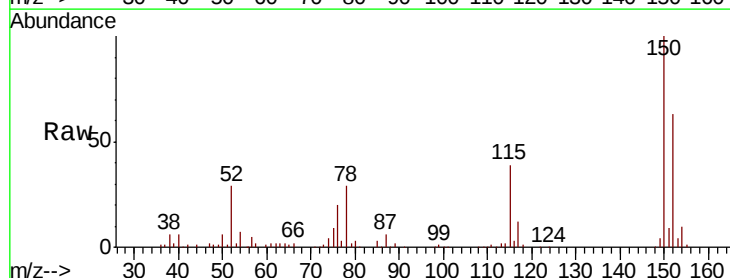
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027155.D  
Acq: 26 Sep 2018 02:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.6  | 44.9  | 134.5 |
| 150     | 160.0 | 0.0   | 355.8 |



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

