

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU121718\  
 Data File : VU028744.D  
 Acq On : 18 Dec 2018 01:34  
 Operator : MD/SY  
 Sample : J6413-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-4

Quant Time: Dec 18 08:19:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 Response via : Initial Calibration

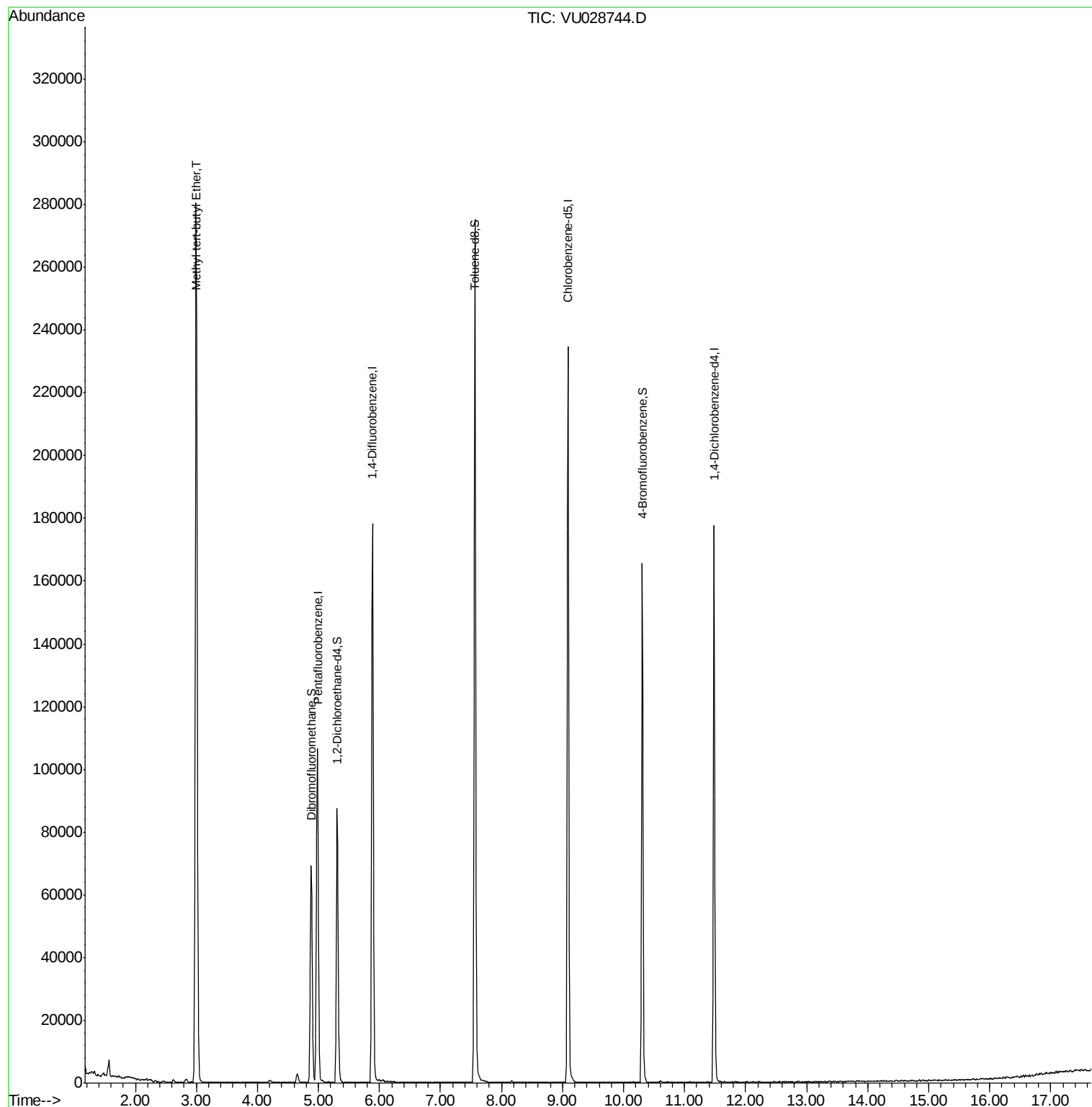
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|---------|------------|
| 1) Pentafluorobenzene       | 4.98  | 168  | 80258    | 50.00  | ug/l    | 0.00       |
| 34) 1,4-Difluorobenzene     | 5.88  | 114  | 142407   | 50.00  | ug/l    | 0.00       |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 125710   | 50.00  | ug/l    | 0.00       |
| 72) 1,4-Dichlorobenzene-d4  | 11.48 | 152  | 44405    | 50.00  | ug/l    | 0.00       |
| System Monitoring Compounds |       |      |          |        |         |            |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 65117    | 53.17  | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =      | 106.34% |            |
| 35) Dibromofluoromethane    | 4.88  | 113  | 47933    | 53.49  | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =      | 106.98% |            |
| 50) Toluene-d8              | 7.56  | 98   | 182071   | 51.36  | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.72% |            |
| 62) 4-Bromofluorobenzene    | 10.30 | 95   | 56560    | 42.69  | ug/l    | 0.00       |
| Spiked Amount 50.000        |       |      | Recovery | =      | 85.38%  |            |
| Target Compounds            |       |      |          |        |         |            |
| 19) Methyl tert-butyl Ether | 3.00  | 73   | 283979   | 83.832 | ug/l    | Qvalue 100 |

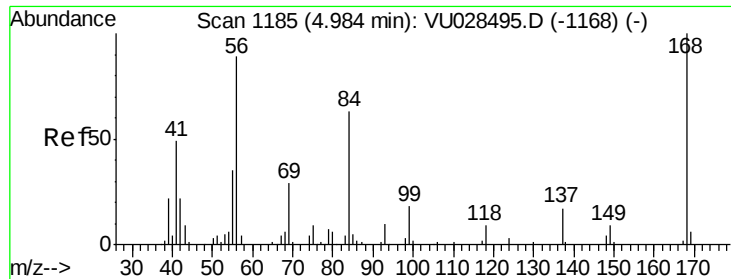
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU121718\  
Data File : VU028744.D  
Acq On : 18 Dec 2018 01:34  
Operator : MD/SY  
Sample : J6413-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-4

Quant Time: Dec 18 08:19:36 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:39:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

Instrument :

MSVOA\_U

ClientSampled :

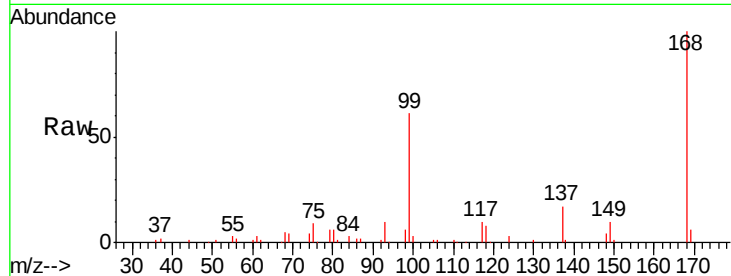
MW-4

Tgt Ion:168 Resp: 80258

Ion Ratio Lower Upper

168 100

99 61.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

30000

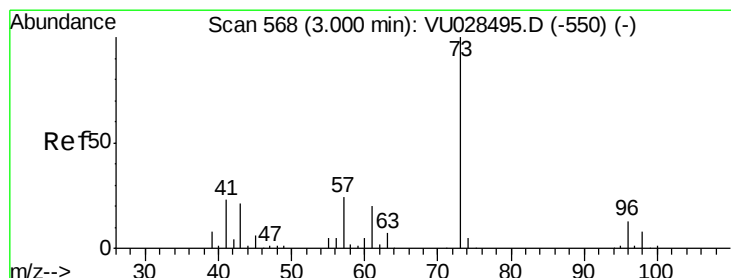
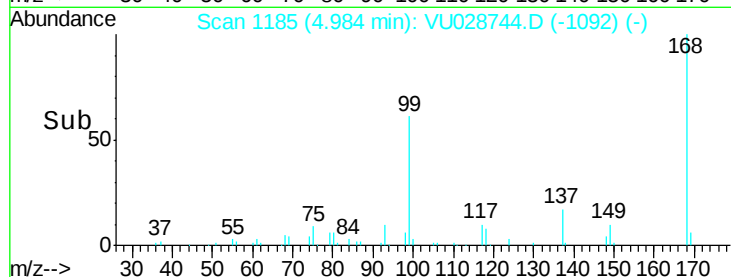
20000

10000

0

4.90 5.00 5.10

Time-->



#19

Methyl tert-butyl Ether

Concen: 83.832 ug/l

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU028744.D

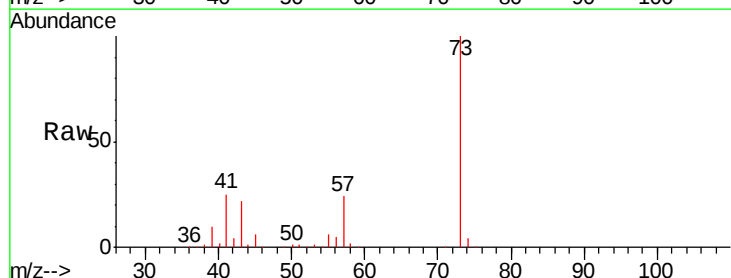
Acq: 18 Dec 2018 01:34

Tgt Ion: 73 Resp: 283979

Ion Ratio Lower Upper

73 100

57 24.5 19.4 29.2



Abundance Ion 73.00 (72.70 to 73.70): VU028495.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU028495.D (-550) (-)

3.00

150000

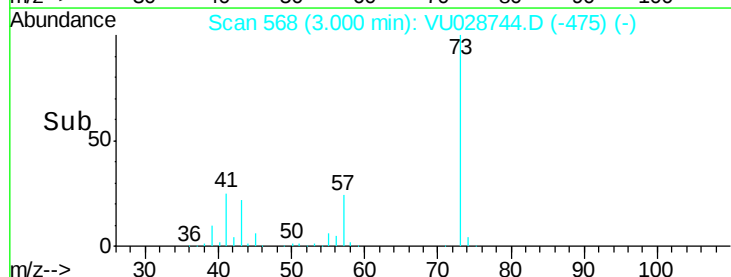
100000

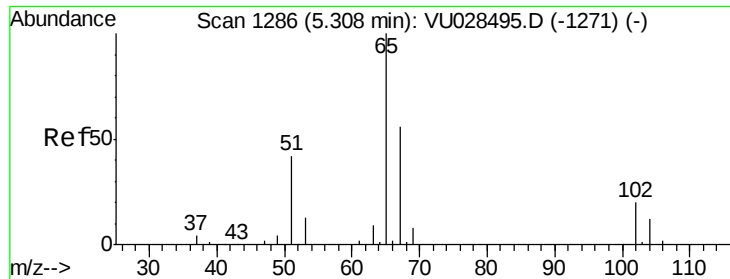
50000

0

2.90 3.00 3.10

Time-->

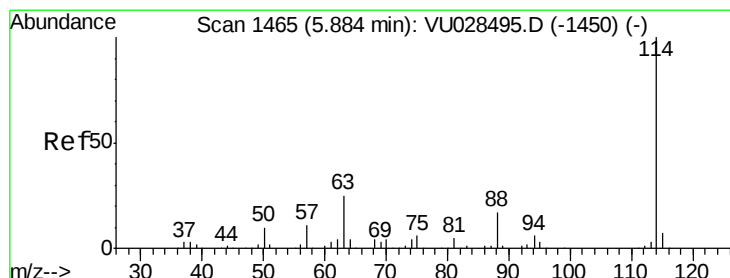
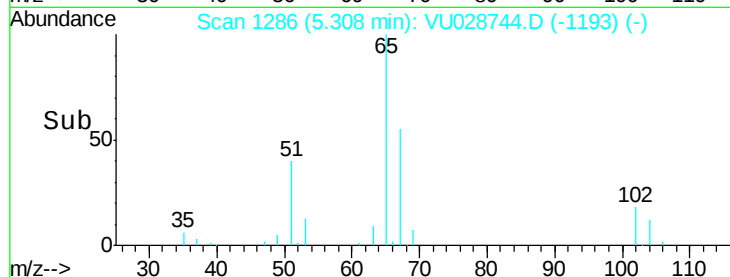
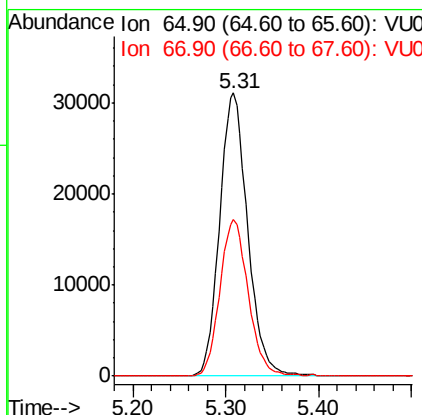
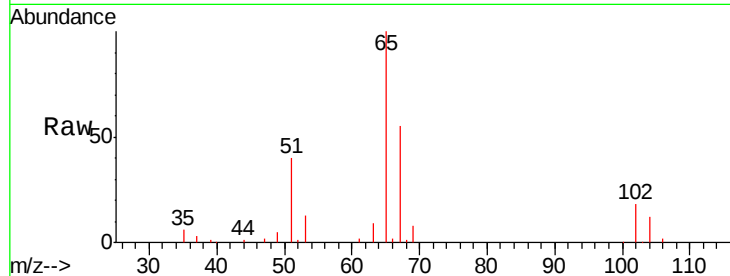




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.166 ug/l  
 RT: 5.31 min Scan# 1286  
 Delta R.T. -0.00 min  
 Lab File: VU028744.D  
 Acq: 18 Dec 2018 01:34

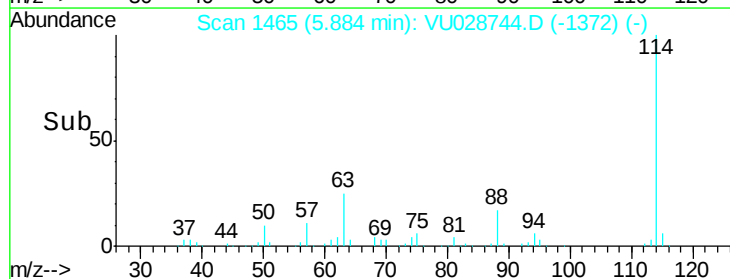
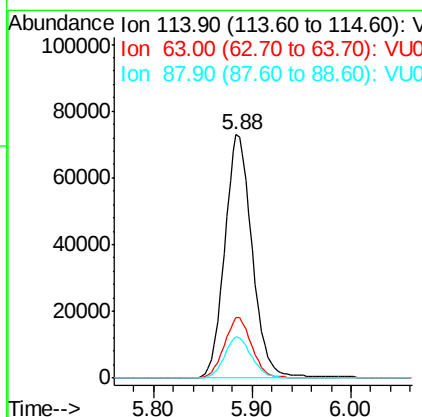
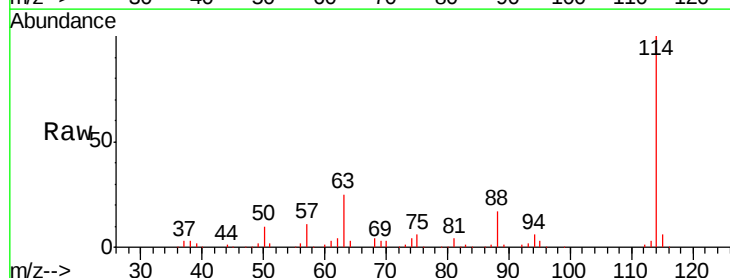
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-4

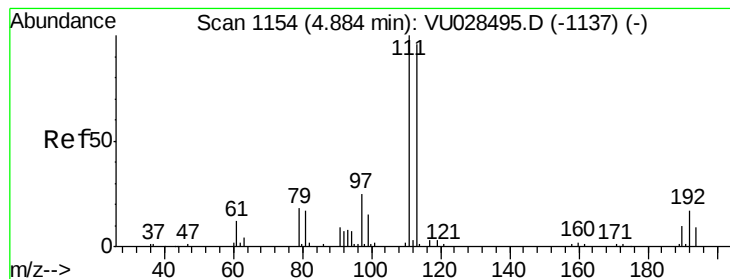
Tgt Ion: 65 Resp: 65117  
 Ion Ratio Lower Upper  
 65 100  
 67 55.7 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: VU028744.D  
 Acq: 18 Dec 2018 01:34

Tgt Ion: 114 Resp: 142407  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 16.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 53.486 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028744.D

Acq: 18 Dec 2018 01:34

Instrument :

MSVOA\_U

ClientSampled :

MW-4

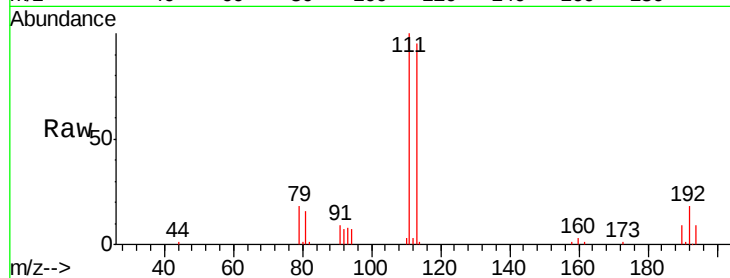
Tgt Ion:113 Resp: 47933

Ion Ratio Lower Upper

113 100

111 104.6 83.4 125.0

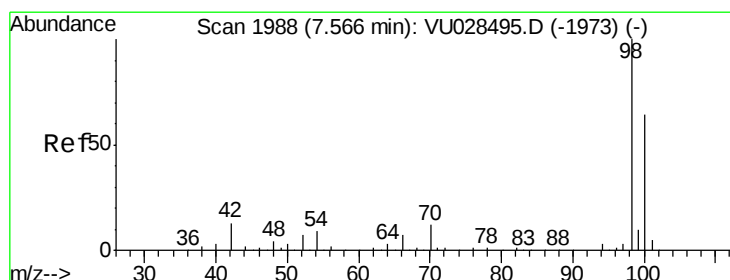
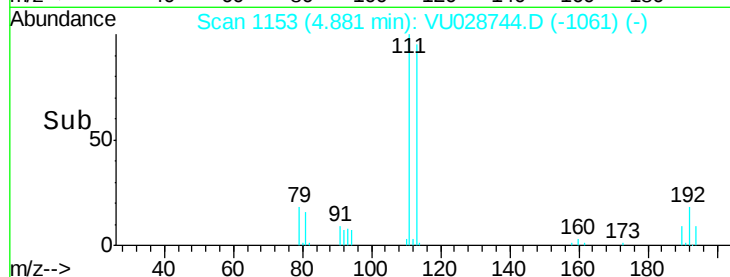
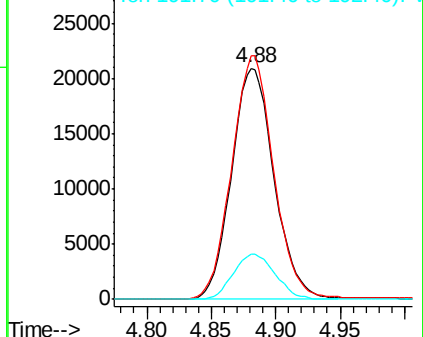
192 19.4 14.8 22.2



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: 51.358 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028744.D

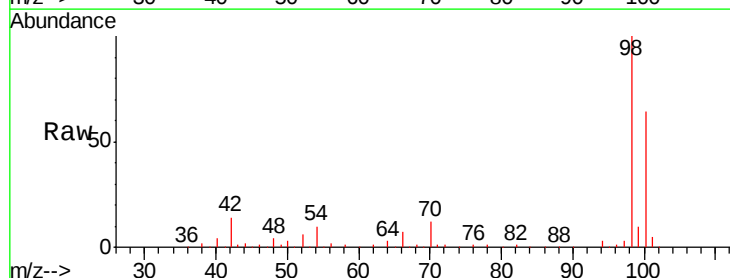
Acq: 18 Dec 2018 01:34

Tgt Ion: 98 Resp: 182071

Ion Ratio Lower Upper

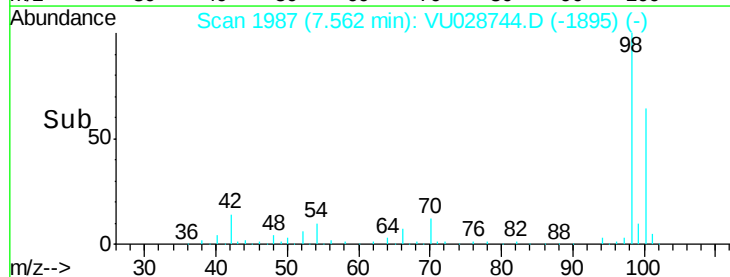
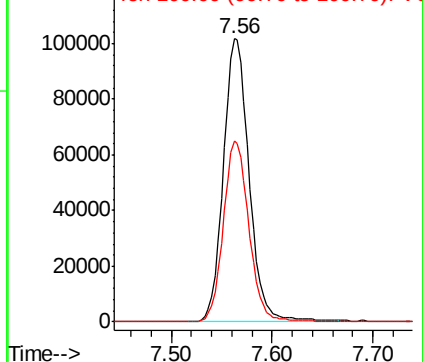
98 100

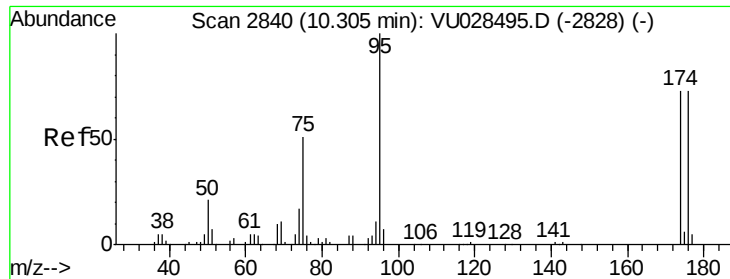
100 63.5 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

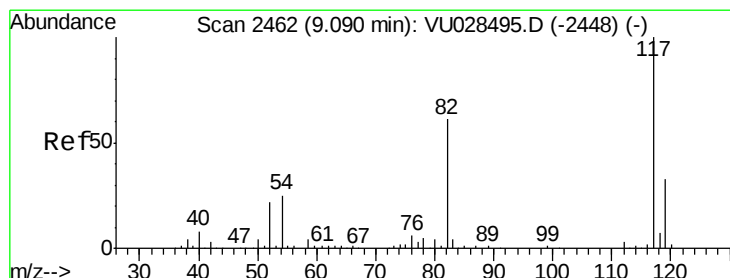
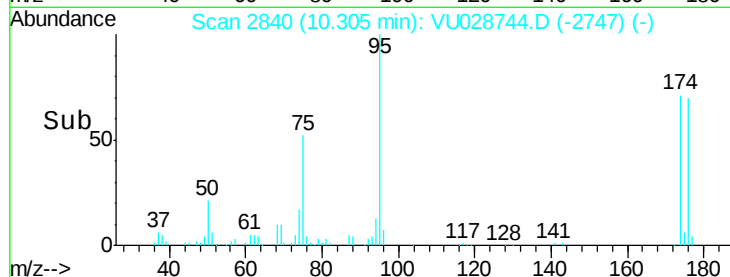
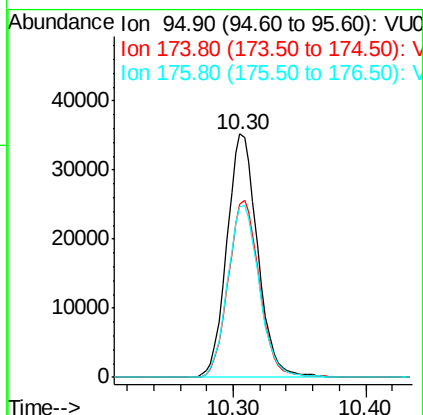
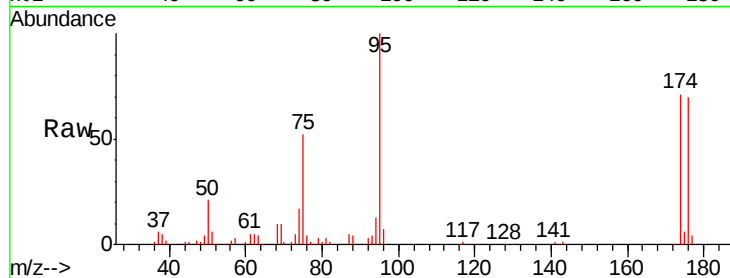




#62  
 4-Bromofluorobenzene  
 Concen: 42.686 ug/l  
 RT: 10.30 min Scan# 2840  
 Delta R.T. -0.00 min  
 Lab File: VU028744.D  
 Acq: 18 Dec 2018 01:34

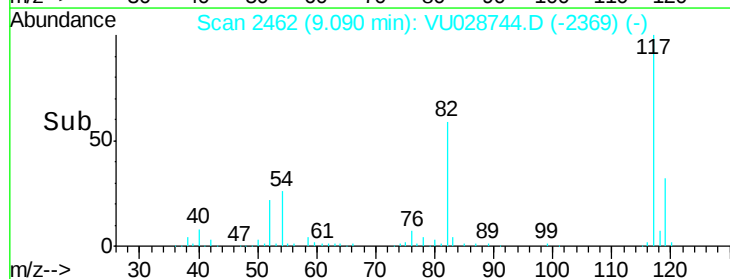
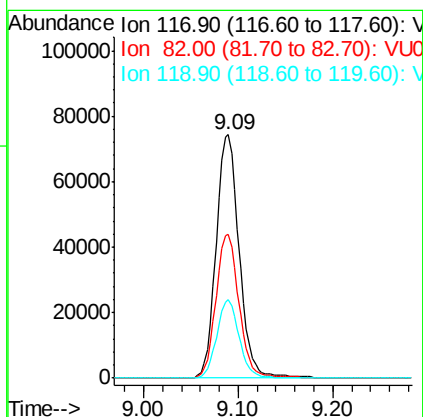
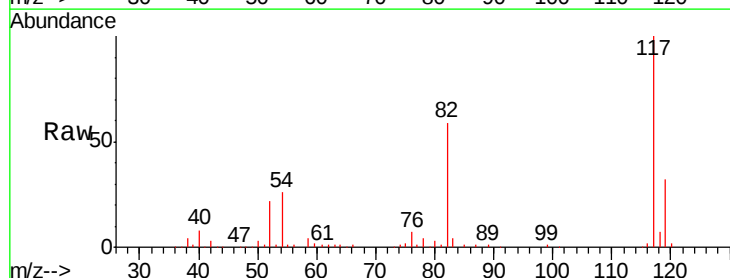
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-4

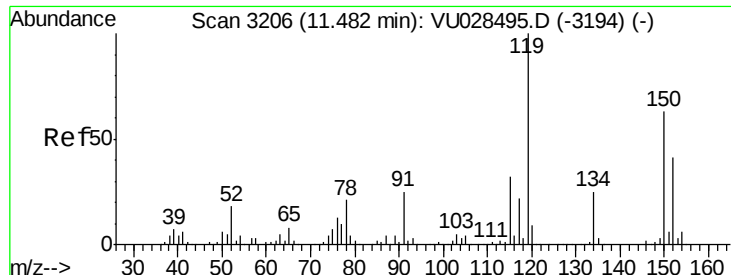
Tgt Ion: 95 Resp: 56560  
 Ion Ratio Lower Upper  
 95 100  
 174 73.8 0.0 150.4  
 176 72.8 0.0 145.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.09 min Scan# 2462  
 Delta R.T. -0.00 min  
 Lab File: VU028744.D  
 Acq: 18 Dec 2018 01:34

Tgt Ion: 117 Resp: 125710  
 Ion Ratio Lower Upper  
 117 100  
 82 59.1 48.9 73.3  
 119 32.0 26.2 39.4





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.48 min Scan# 3206  
 Delta R.T. -0.00 min  
 Lab File: VU028744.D  
 Acq: 18 Dec 2018 01:34

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-4

Tgt Ion:152 Resp: 44405  
 Ion Ratio Lower Upper  
 152 100  
 115 60.3 42.7 128.1  
 150 156.4 0.0 346.0

