

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\  
 Data File : VU025333.D  
 Acq On : 12 Jul 2018 12:08  
 Operator : MD/SY  
 Sample : VU0712WBL01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0712WBL01

Quant Time: Jul 13 01:25:20 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U070918W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 10 09:34:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 209869   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 320766   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 293181   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 149622   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 158417   | 48.59 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.18% |      |
| 35) Dibromofluoromethane    | 4.89   | 113 | 126734   | 46.84 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.68% |      |
| 50) Toluene-d8              | 7.57   | 98  | 459623   | 49.60 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.20% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 165118   | 44.26 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.52% |      |

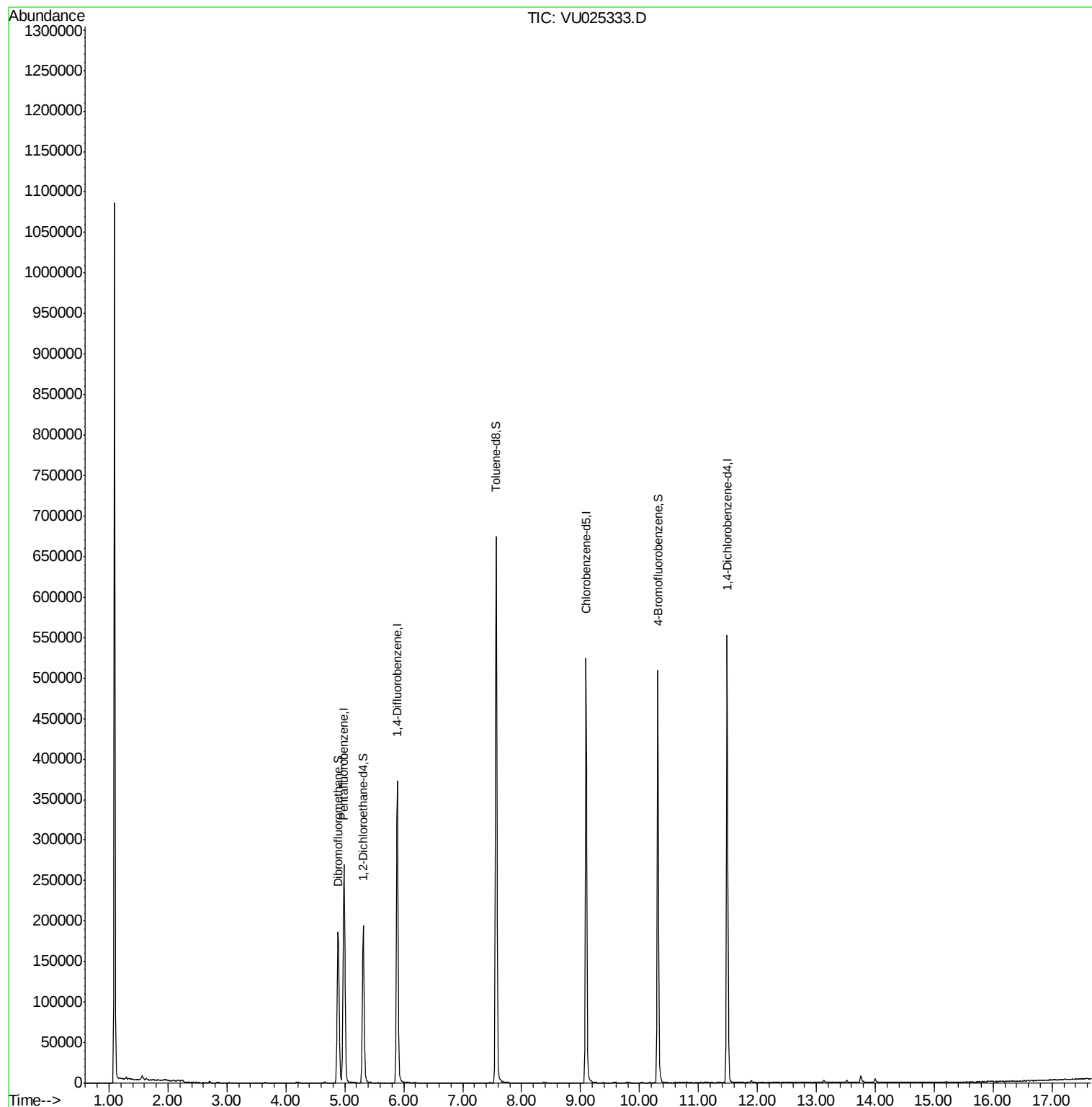
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

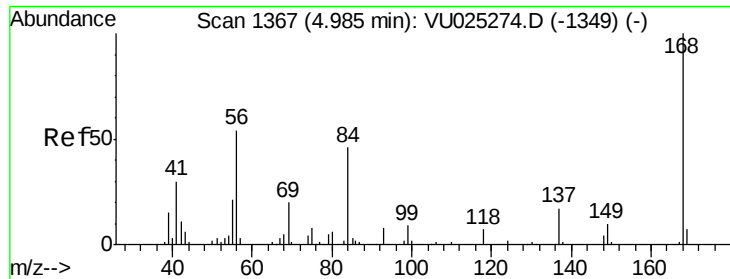
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U070918W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 10 09:34:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025333.D

Acq: 12 Jul 2018 12:08

Instrument :

MSVOA\_U

ClientSampleId :

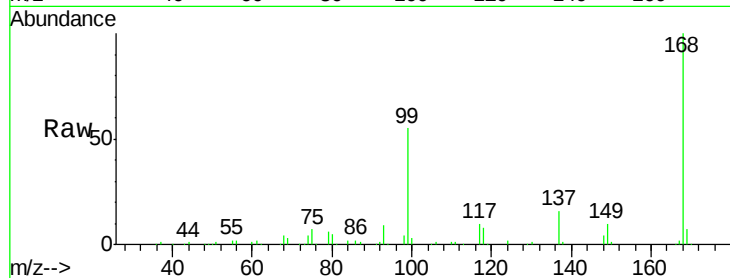
VU0712WBL01

Tot Ion:168 Resp: 209869

Ion Ratio Lower Upper

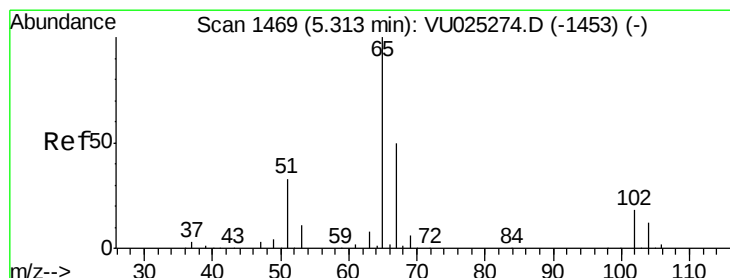
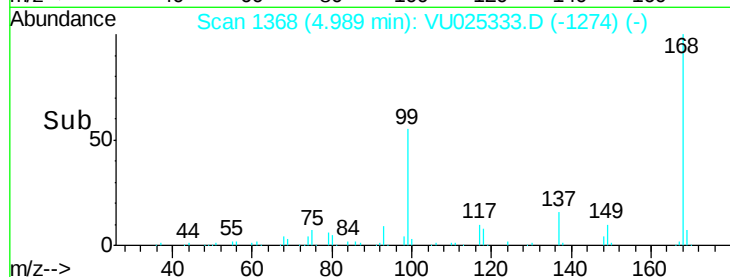
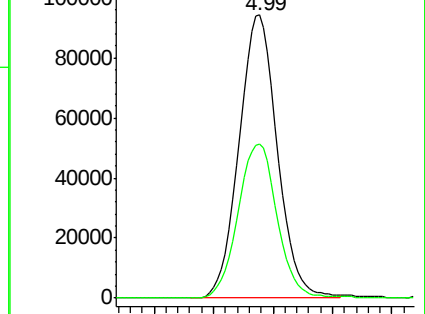
168 100

99 54.6 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.585 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025333.D

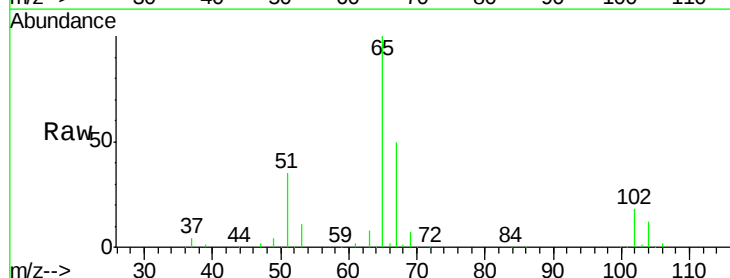
Acq: 12 Jul 2018 12:08

Tgt Ion: 65 Resp: 158417

Ion Ratio Lower Upper

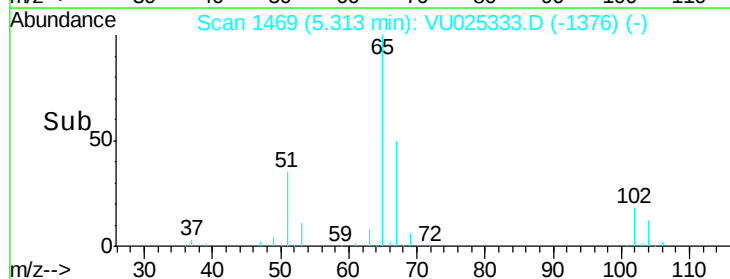
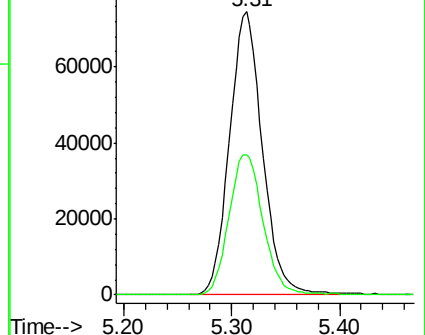
65 100

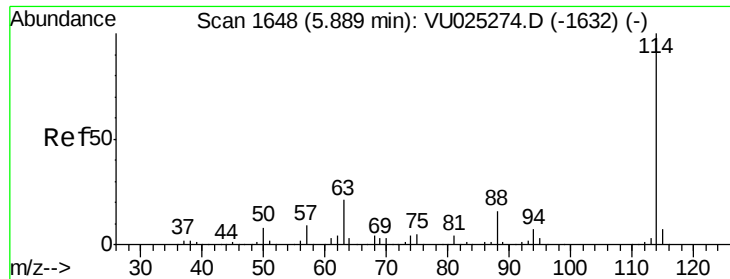
67 51.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025274.D (-1453) (-)

Ion 66.90 (66.60 to 67.60): VU025274.D (-1453) (-)

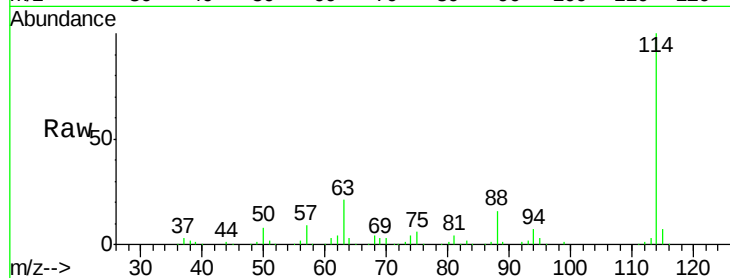




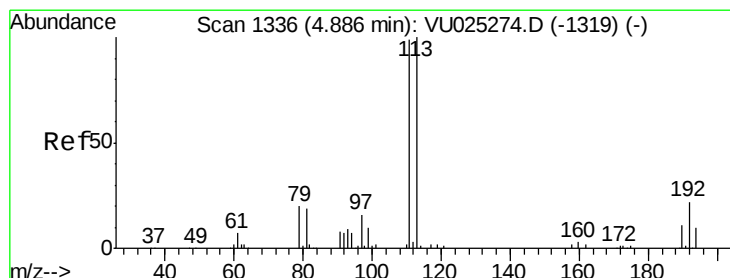
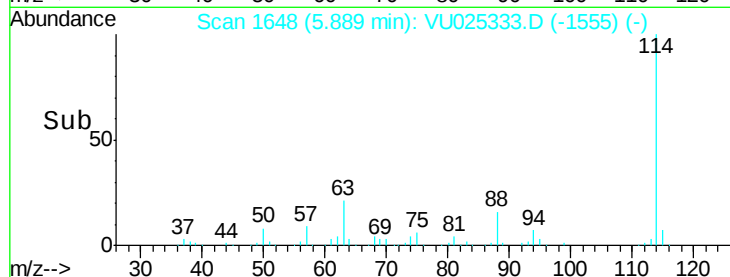
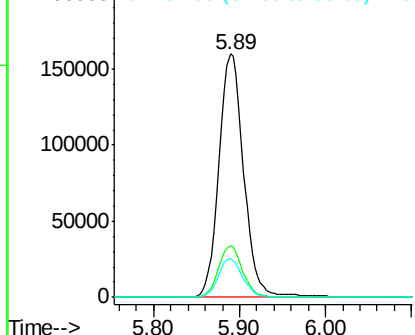
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1648  
 Delta R.T. 0.00 min  
 Lab File: VU025333.D  
 Acq: 12 Jul 2018 12:08

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0712WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.0  | 0.0   | 41.6  |
| 88      | 15.8  | 0.0   | 32.4  |

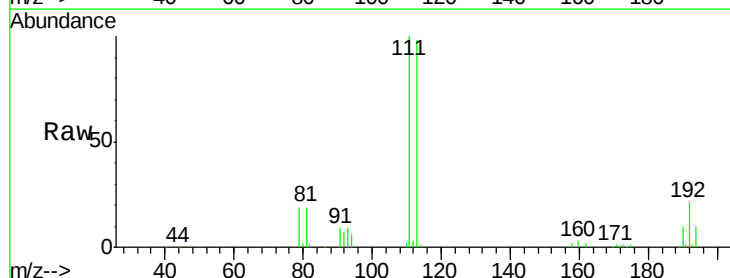


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

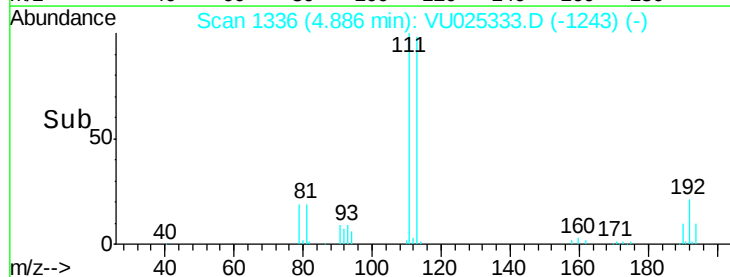
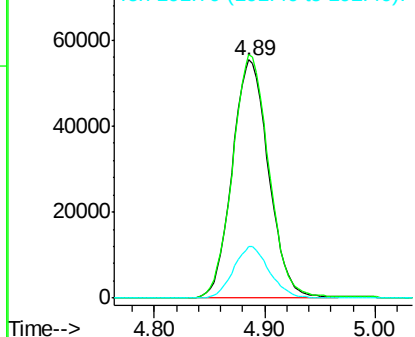


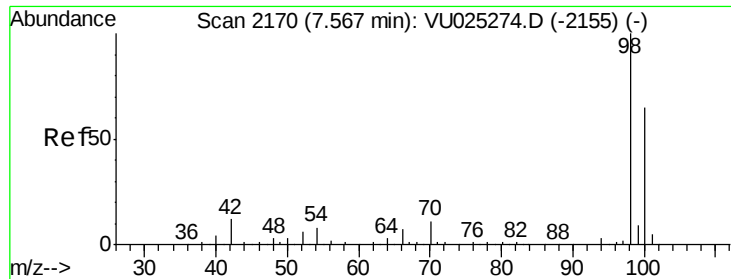
#35  
 Dibromofluoromethane  
 Concen: 46.835 ug/l  
 RT: 4.89 min Scan# 1336  
 Delta R.T. 0.00 min  
 Lab File: VU025333.D  
 Acq: 12 Jul 2018 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.7  | 122.5 |
| 192     | 21.3  | 17.1  | 25.7  |



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

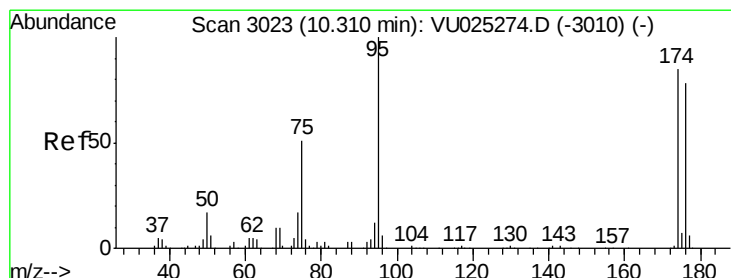
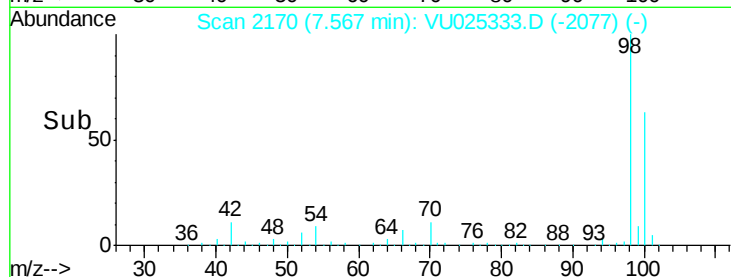
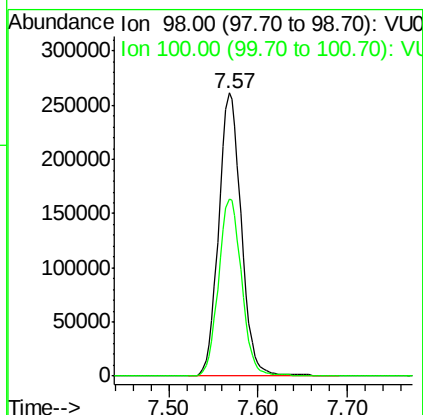
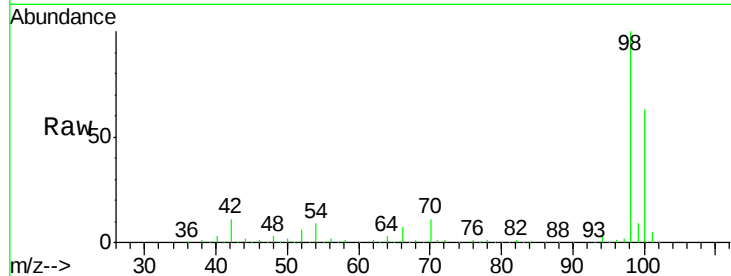




#50  
Toluene-d8  
Concen: 49.602 ug/l  
RT: 7.57 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: VU025333.D  
Acq: 12 Jul 2018 12:08

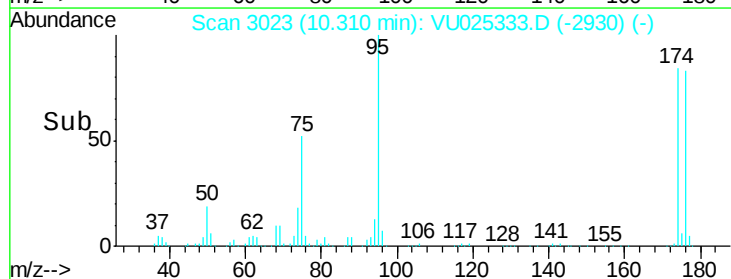
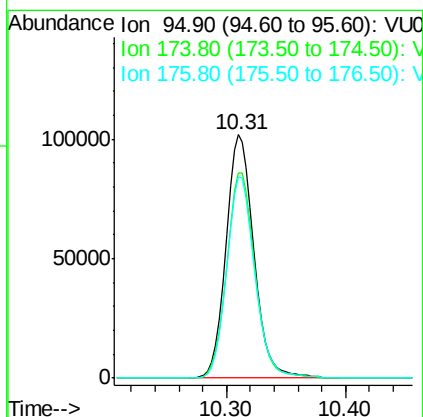
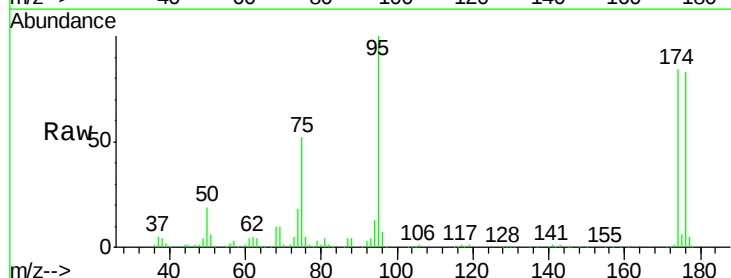
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0712WBL01

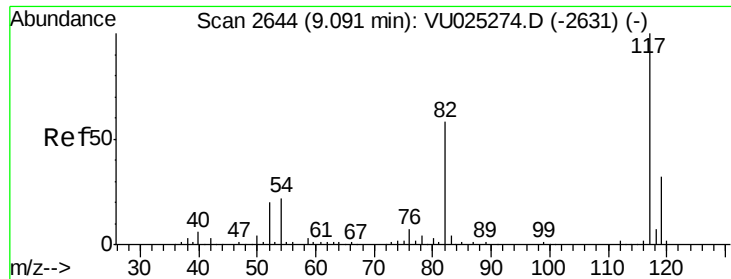
Tot Ion: 98 Resp: 459623  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.1 76.7



#62  
4-Bromofluorobenzene  
Concen: 44.261 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU025333.D  
Acq: 12 Jul 2018 12:08

Tgt Ion: 95 Resp: 165118  
Ion Ratio Lower Upper  
95 100  
174 85.9 0.0 172.2  
176 83.7 0.0 162.6

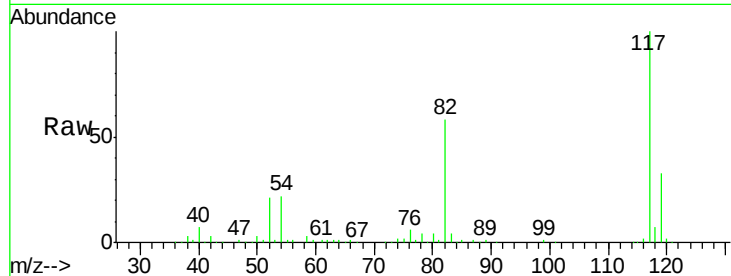




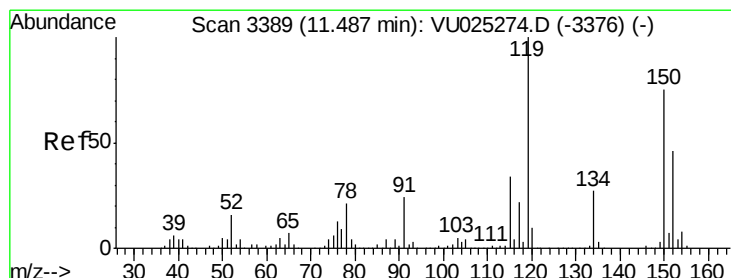
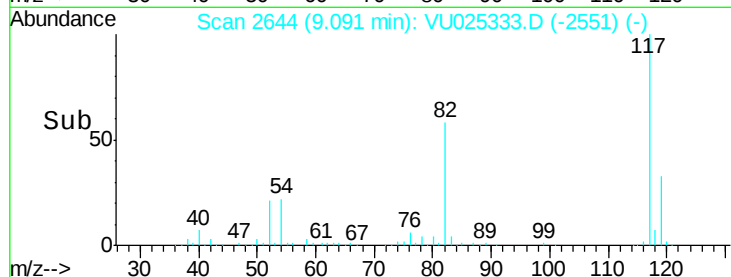
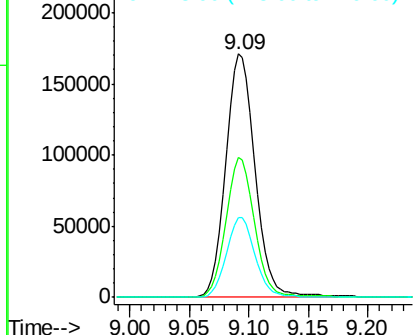
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VU025333.D  
Acq: 12 Jul 2018 12:08

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0712WBL01

Tot Ion:117 Resp: 293181  
Ion Ratio Lower Upper  
117 100  
82 57.5 46.0 69.0  
119 32.6 26.0 39.0

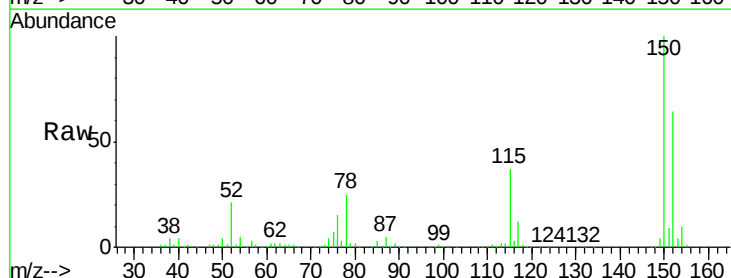


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 3389  
Delta R.T. 0.00 min  
Lab File: VU025333.D  
Acq: 12 Jul 2018 12:08

Tgt Ion:152 Resp: 149622  
Ion Ratio Lower Upper  
152 100  
115 57.3 40.1 120.3  
150 156.1 0.0 351.4



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

