

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091418\  
 Data File : VU026722.D  
 Acq On : 13 Sep 2018 09:13  
 Operator : MD/SY  
 Sample : VU0914MBL01  
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

Quant Time: Sep 14 01:02:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U091218W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 12 05:32:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 101709   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 175927   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 168919   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 84728    | 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   | 85000    | 55.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.18% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 75187    | 52.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.78% |          |
| 50) Toluene-d8              | 7.57  | 98   | 258623   | 48.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.46%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 88076    | 45.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.58%  |          |

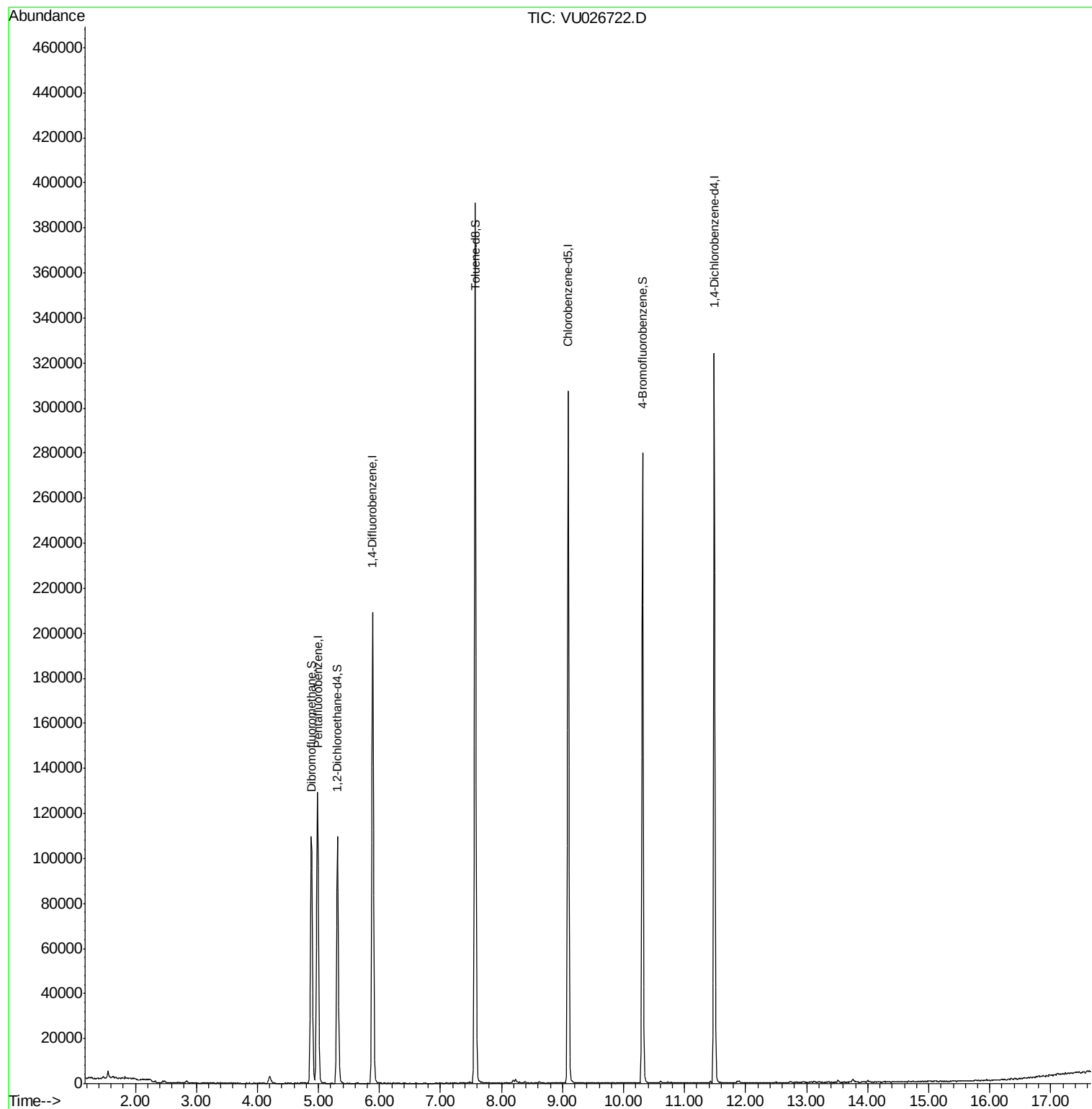
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

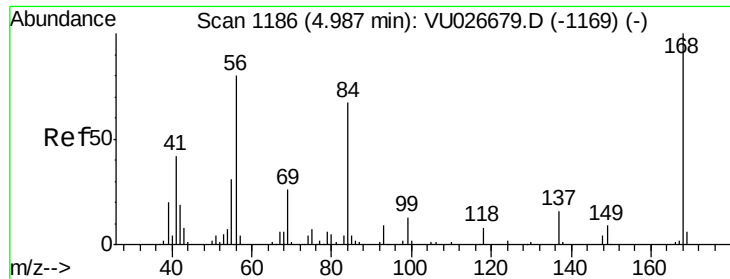
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU091418\  
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Sample : VU0914MBL01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0914MBL01

Quant Time: Sep 14 01:02:35 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U091218W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 12 05:32:45 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU026722.D

Acq: 13 Sep 2018 09:13

Instrument :

MSVOA\_U

ClientSampleId :

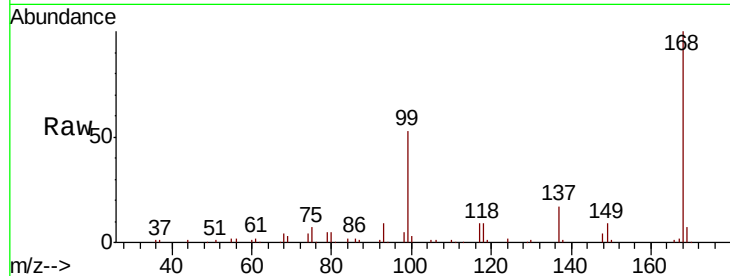
VU0914MBL01

Tot Ion:168 Resp: 101709

Ion Ratio Lower Upper

168 100

99 53.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU026679.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026679.D (-1169) (-)

4.99

50000

40000

30000

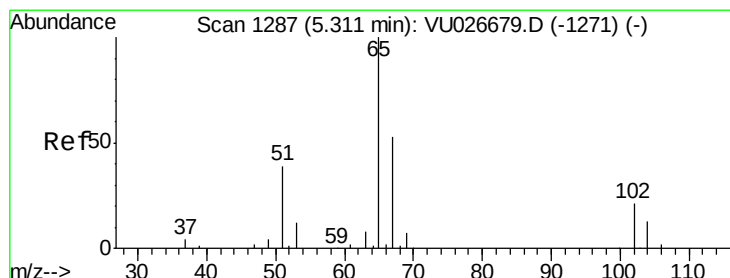
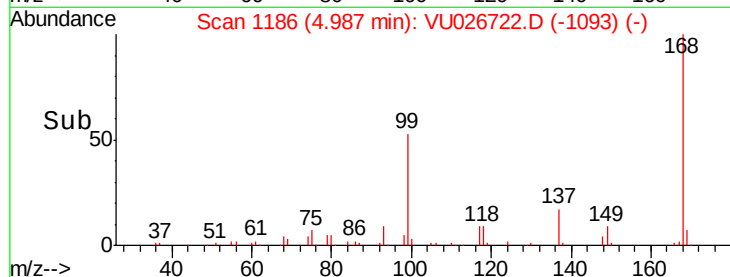
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.09 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU026722.D

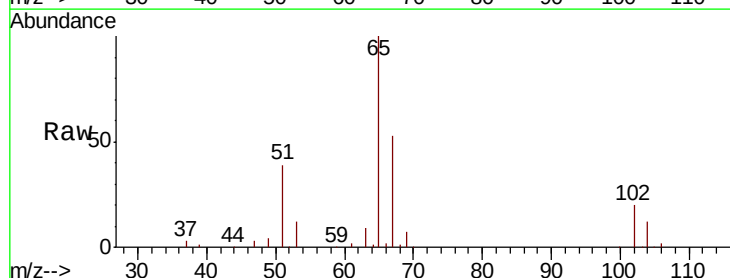
Acq: 13 Sep 2018 09:13

Tgt Ion: 65 Resp: 85000

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VU026679.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU026679.D (-1271) (-)

5.31

40000

30000

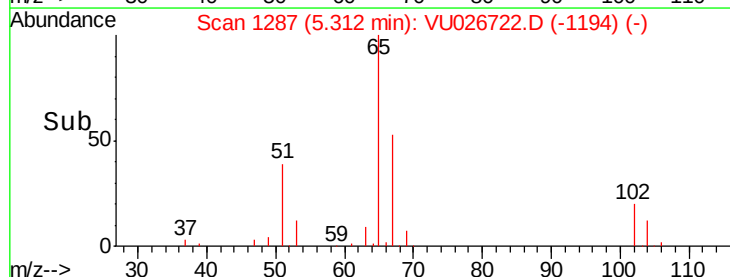
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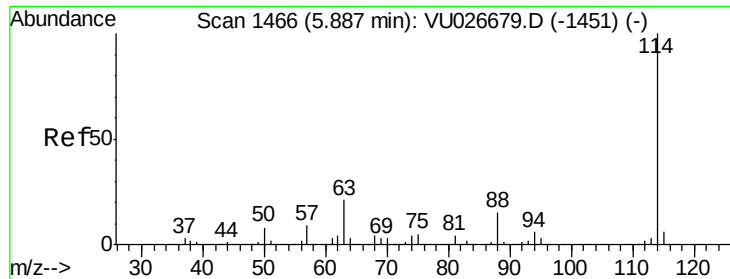
10000

0

5.20 5.25 5.30 5.35 5.40

Time-->

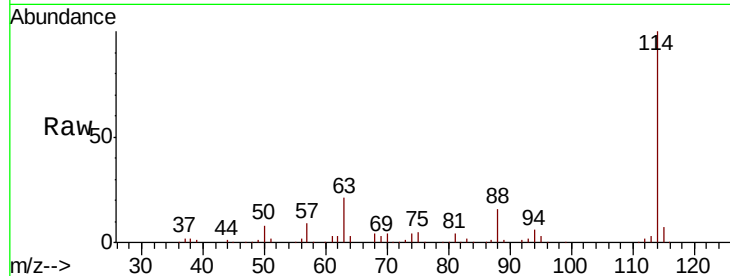




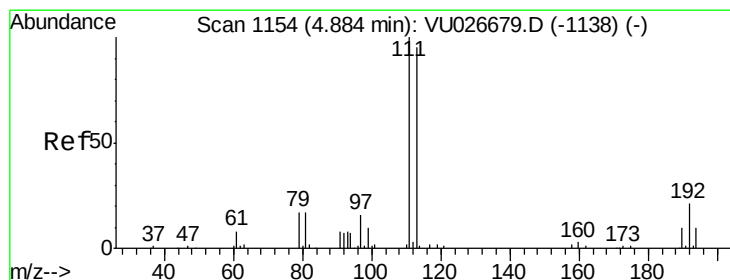
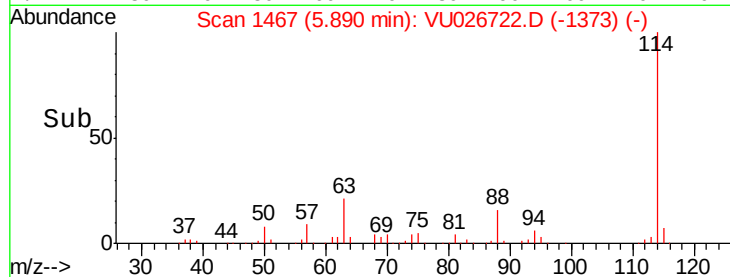
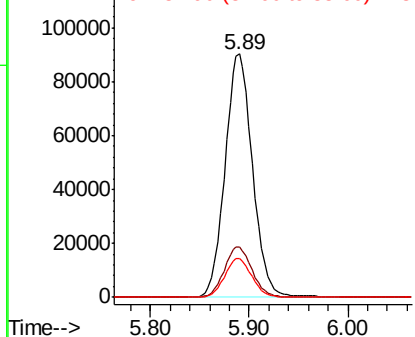
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0914MBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.6  | 0.0   | 41.4  |
| 88      | 15.8  | 0.0   | 30.8  |

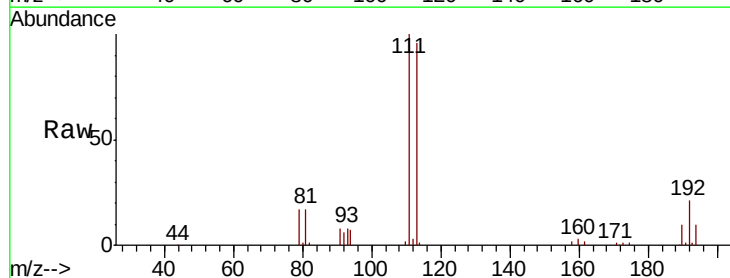


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

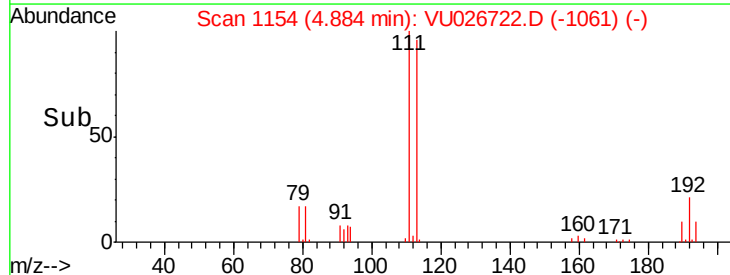
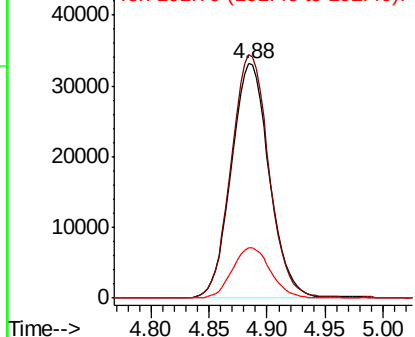


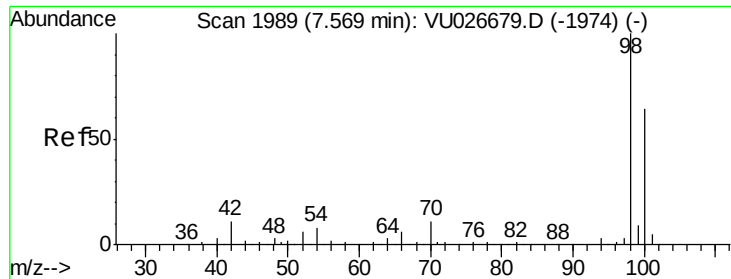
#35  
 Dibromofluoromethane  
 Concen: 52.39 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU026722.D  
 Acq: 13 Sep 2018 09:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.5 | 83.1  | 124.7 |
| 192     | 21.5  | 17.4  | 26.2  |



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

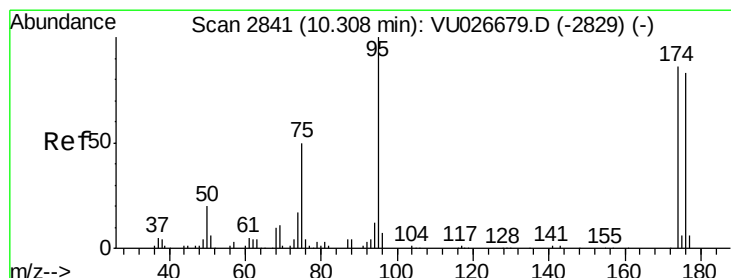
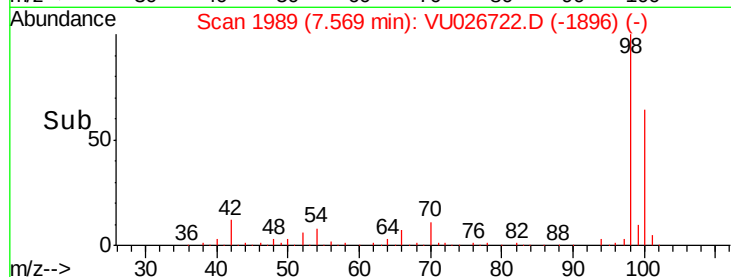
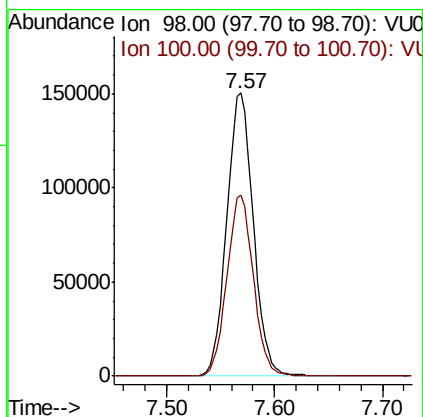
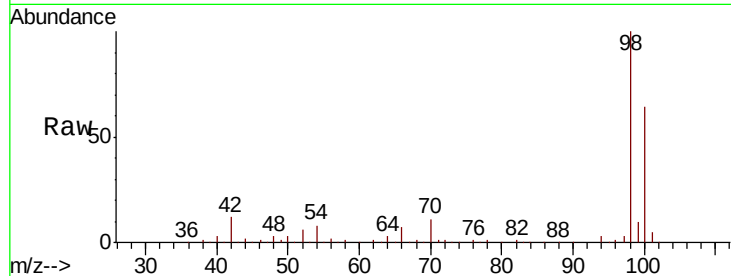




#50  
Toluene-d8  
Concen: 48.73 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

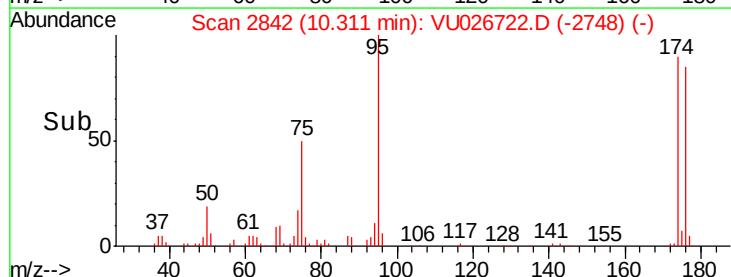
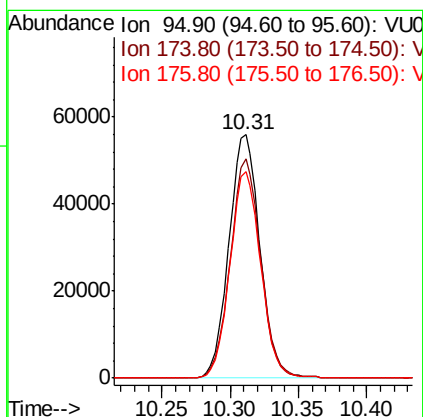
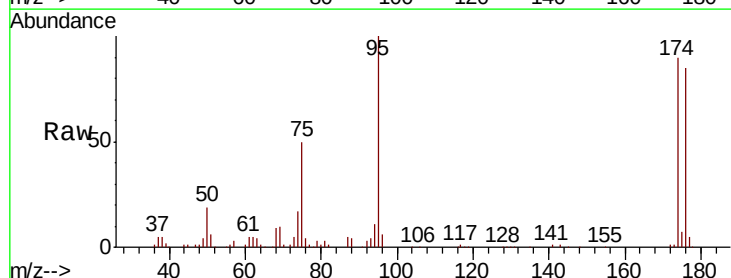
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0914MBL01

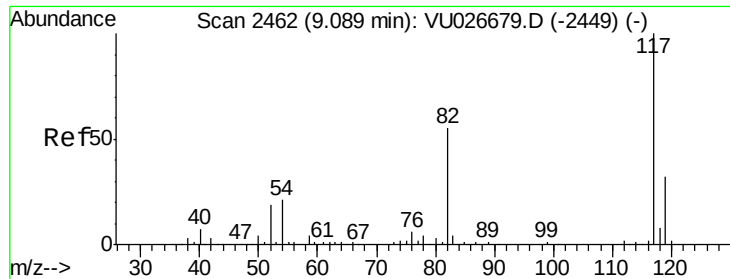
Tot Ion: 98 Resp: 258623  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 45.79 ug/l  
RT: 10.31 min Scan# 2842  
Delta R.T. 0.00 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

Tgt Ion: 95 Resp: 88076  
Ion Ratio Lower Upper  
95 100  
174 89.3 0.0 172.8  
176 84.6 0.0 168.6

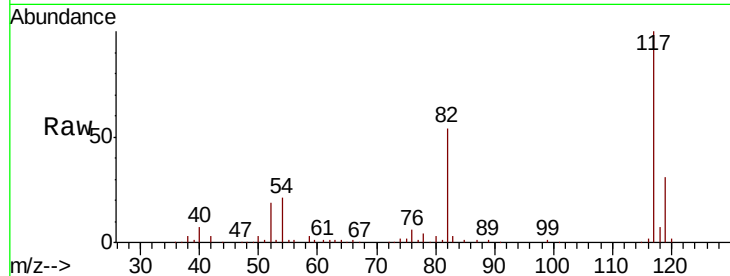




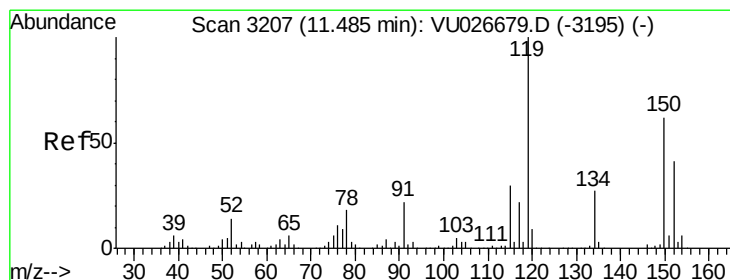
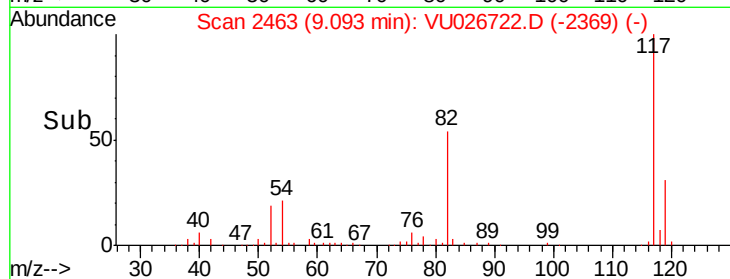
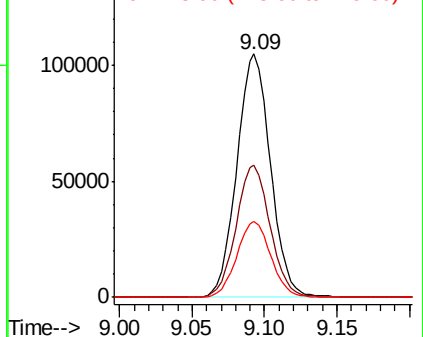
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

Instrument :  
MSVOA\_U  
ClientSampled :  
VU0914MBL01

Tot Ion:117 Resp: 168919  
Ion Ratio Lower Upper  
117 100  
82 54.4 44.1 66.1  
119 31.4 25.7 38.5

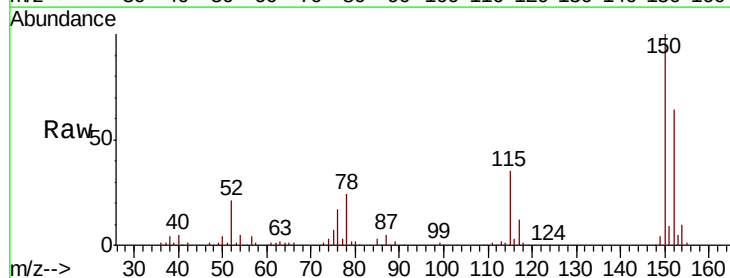


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU026722.D  
Acq: 13 Sep 2018 09:13

Tgt Ion:152 Resp: 84728  
Ion Ratio Lower Upper  
152 100  
115 56.6 40.4 121.1  
150 157.0 0.0 345.2



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

