

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121318\  
 Data File : VU028631.D  
 Acq On : 12 Dec 2018 00:53  
 Operator : MD/SY  
 Sample : J6347-06  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW001-01

Quant Time: Dec 12 12:38:39 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

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 86206    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 158637   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 142442   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 57346    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 71195    | 54.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.24% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 53361    | 53.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.90% |      |
| 50) Toluene-d8              | 7.56   | 98  | 205700   | 52.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.18% |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 67734    | 45.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.78%  |      |

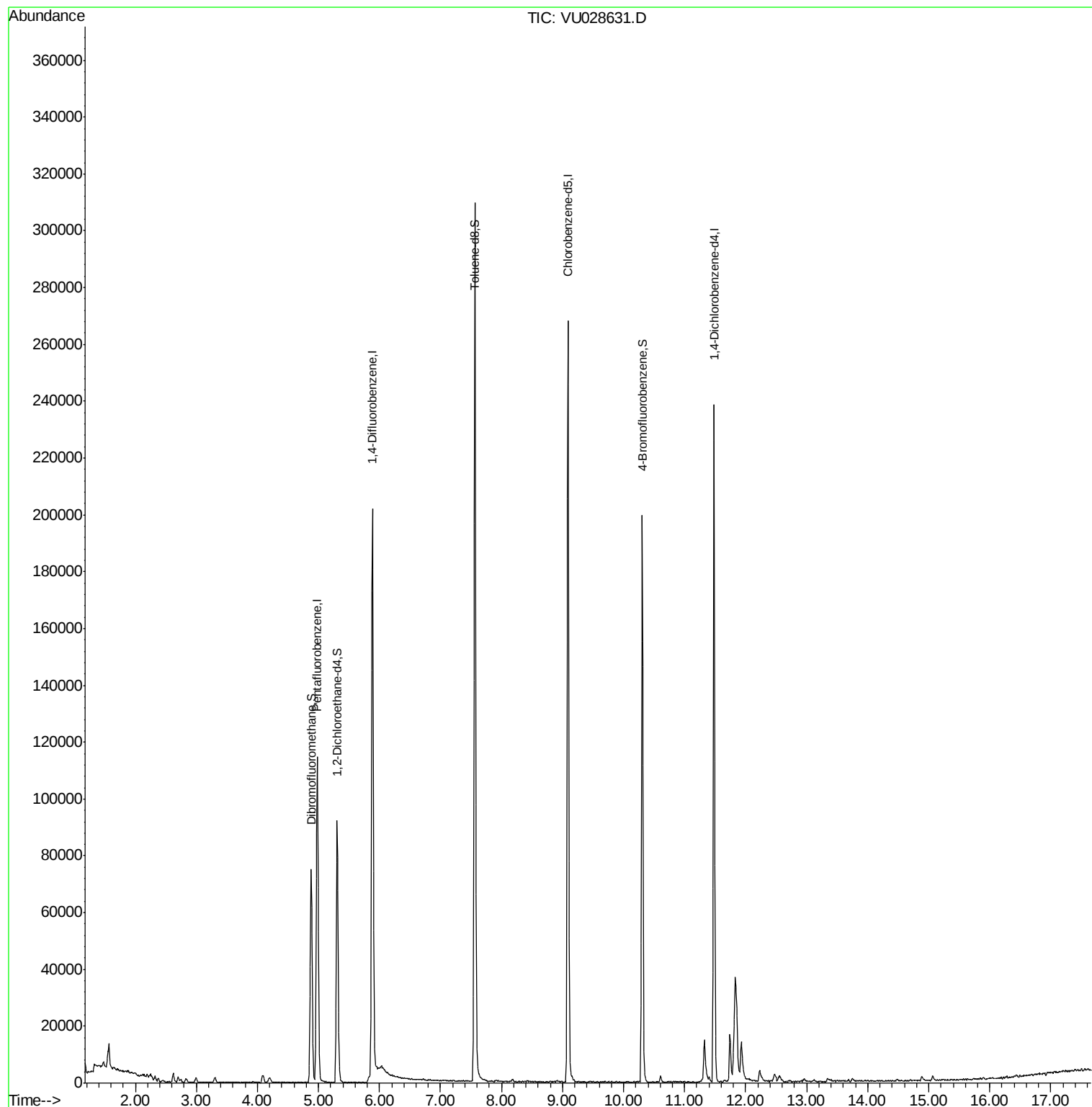
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

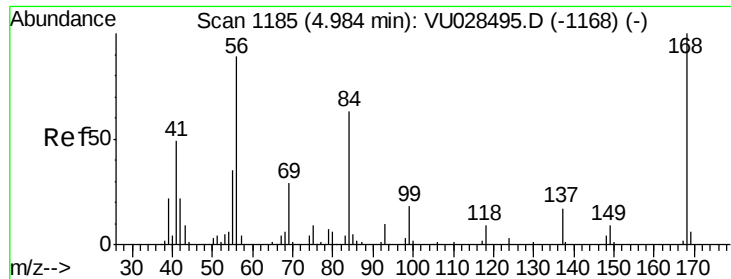
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028631.D

Acq: 12 Dec 2018 00:53

Instrument :

MSVOA\_U

ClientSampleId :

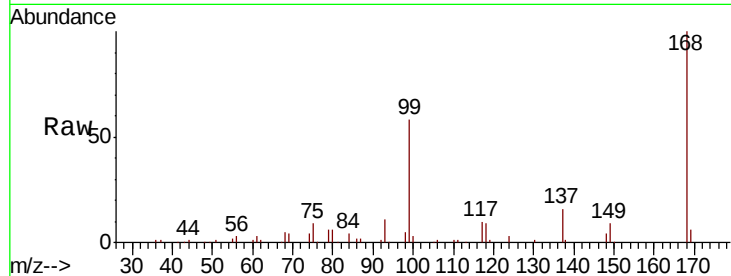
P001-SW001-01

Tot Ion:168 Resp: 86206

Ion Ratio Lower Upper

168 100

99 58.0 46.6 69.8



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

Ion 98.90 (98.60 to 99.60): VU028631.D (-1092) (-)

4.98

40000

30000

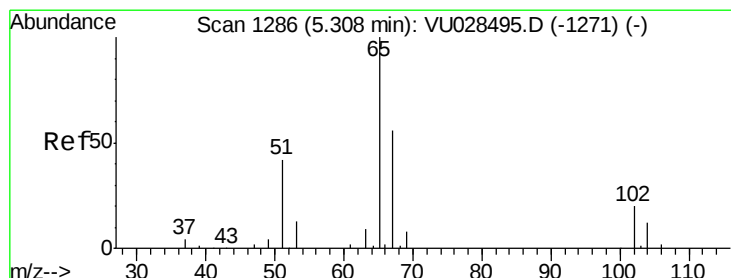
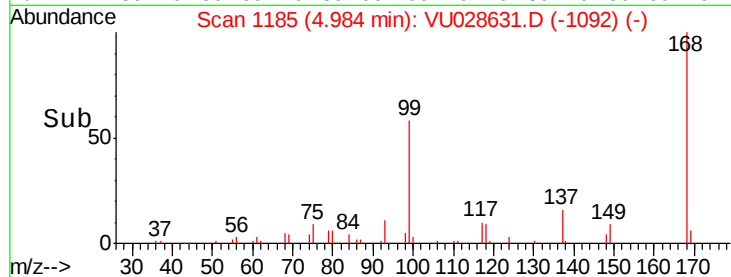
20000

10000

0

4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.118 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU028631.D

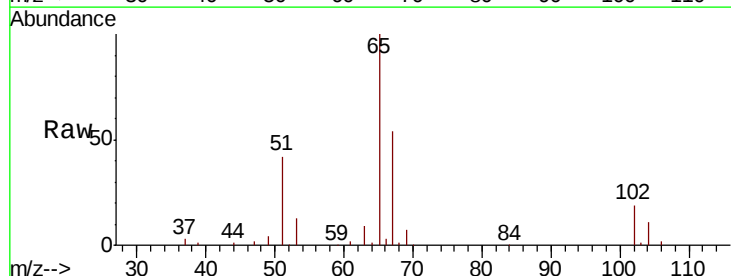
Acq: 12 Dec 2018 00:53

Tgt Ion: 65 Resp: 71195

Ion Ratio Lower Upper

65 100

67 54.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU028495.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU028631.D (-1193) (-)

5.31

40000

30000

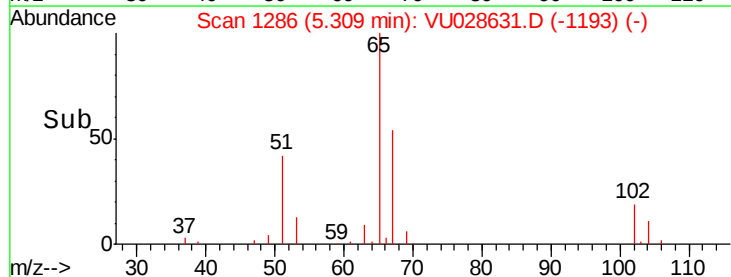
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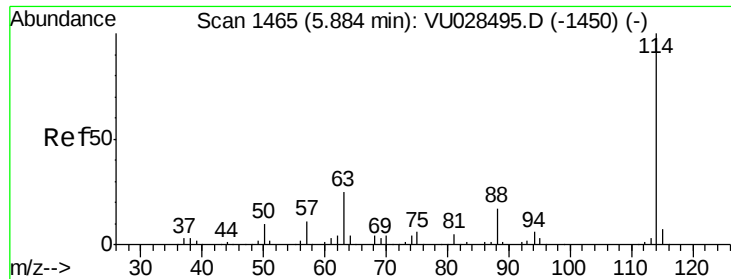
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0

5.20 5.30 5.40

Time-->

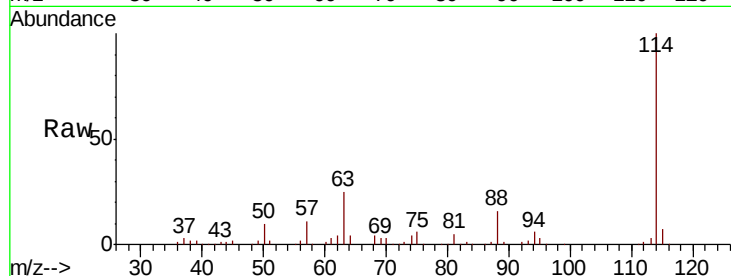




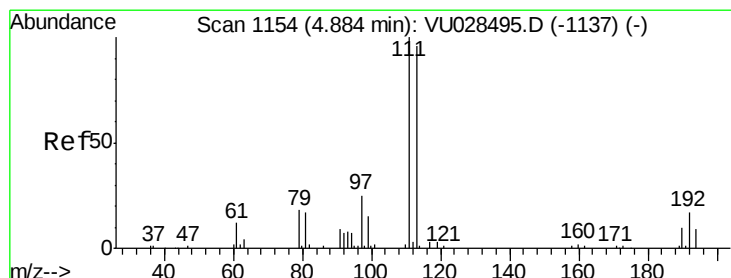
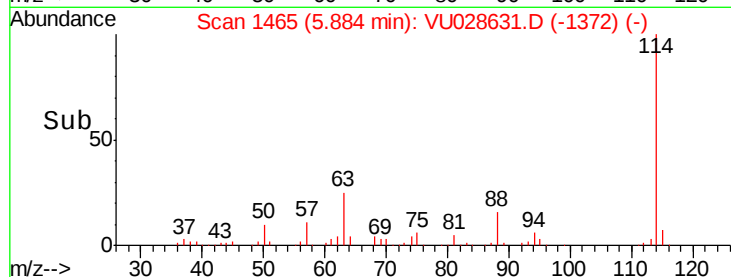
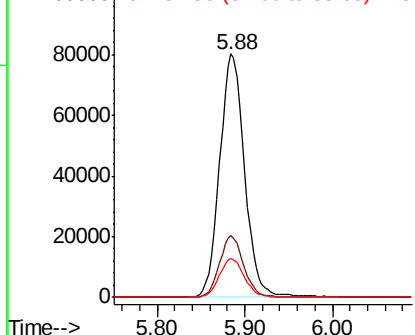
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: VU028631.D  
 Acq: 12 Dec 2018 00:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 P001-SW001-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.4  | 0.0   | 49.2  |
| 88      | 16.0  | 0.0   | 33.4  |

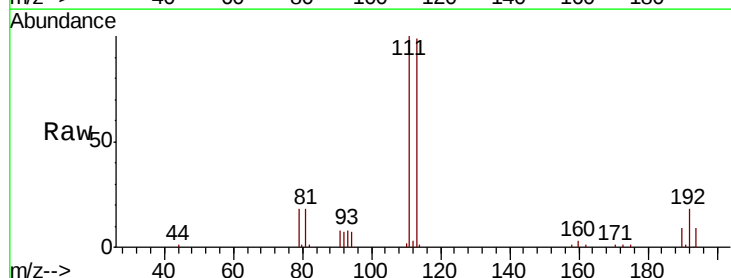


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

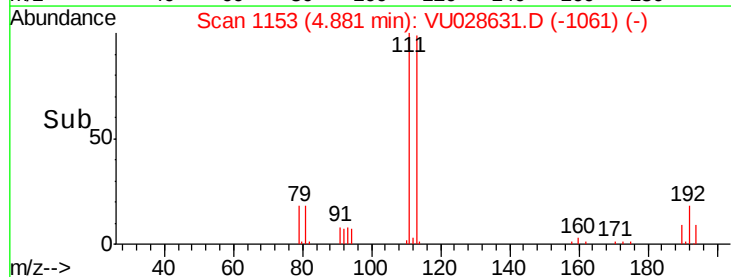
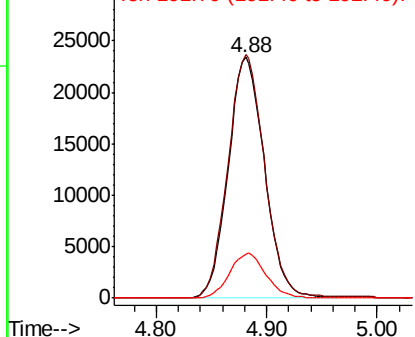


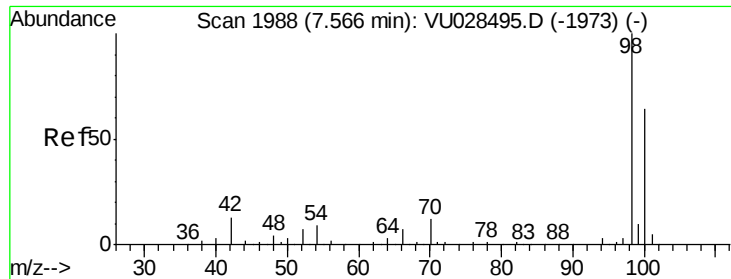
#35  
 Dibromofluoromethane  
 Concen: 53.451 ug/l  
 RT: 4.88 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: VU028631.D  
 Acq: 12 Dec 2018 00:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 83.4  | 125.0 |
| 192     | 18.5  | 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

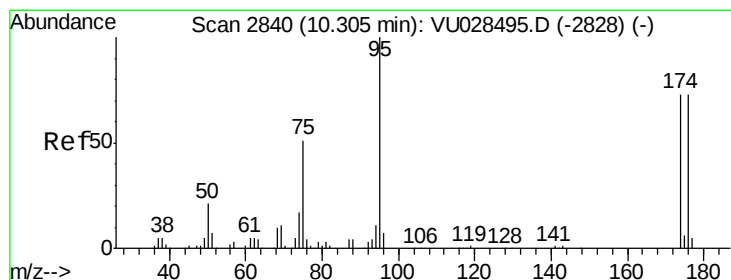
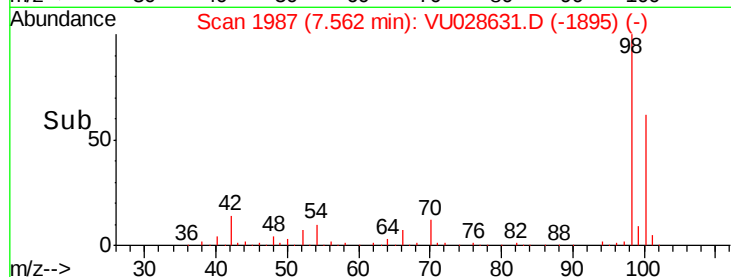
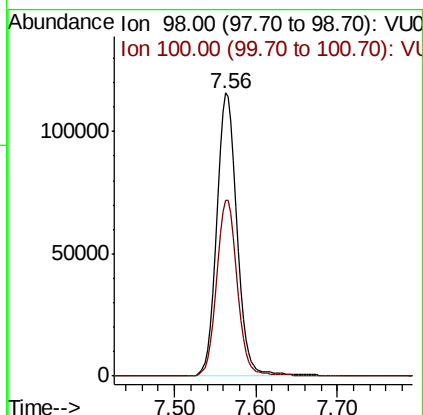
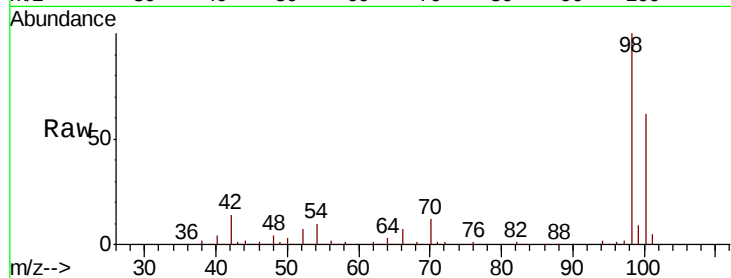




#50  
Toluene-d8  
Concen: 52.087 ug/l  
RT: 7.56 min Scan# 1987  
Delta R.T. -0.00 min  
Lab File: VU028631.D  
Acq: 12 Dec 2018 00:53

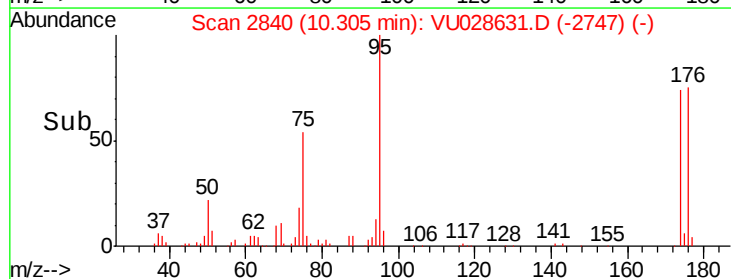
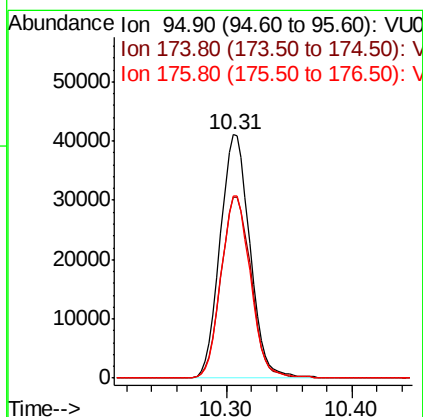
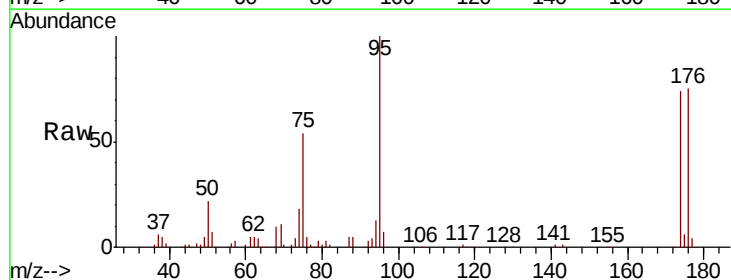
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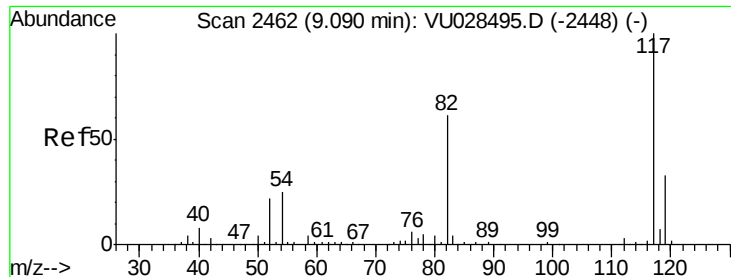
Tot Ion: 98 Resp: 205700  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.0 76.6



#62  
4-Bromofluorobenzene  
Concen: 45.889 ug/l  
RT: 10.31 min Scan# 2840  
Delta R.T. 0.00 min  
Lab File: VU028631.D  
Acq: 12 Dec 2018 00:53

Tgt Ion: 95 Resp: 67734  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 150.4  
176 74.1 0.0 145.2

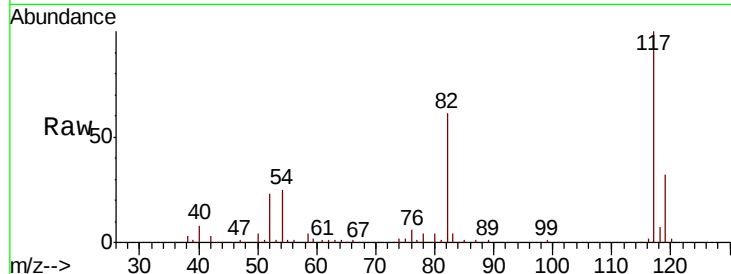




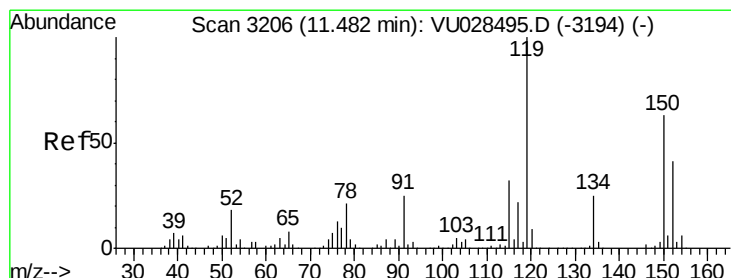
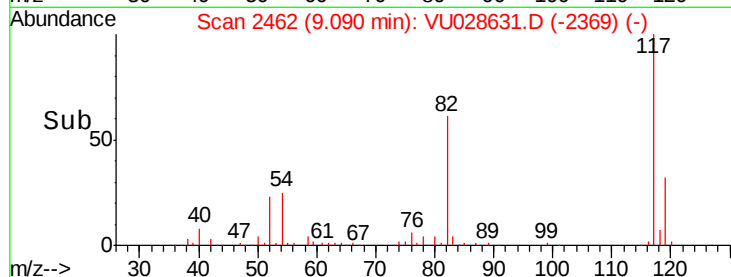
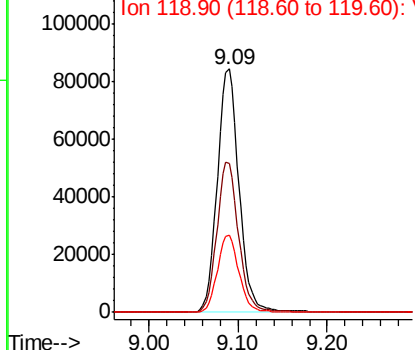
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. 0.00 min  
Lab File: VU028631.D  
Acq: 12 Dec 2018 00:53

Instrument :  
MSVOA\_U  
ClientSampleId :  
P001-SW001-01

Tot Ion:117 Resp: 142442  
Ion Ratio Lower Upper  
117 100  
82 61.0 48.9 73.3  
119 31.6 26.2 39.4

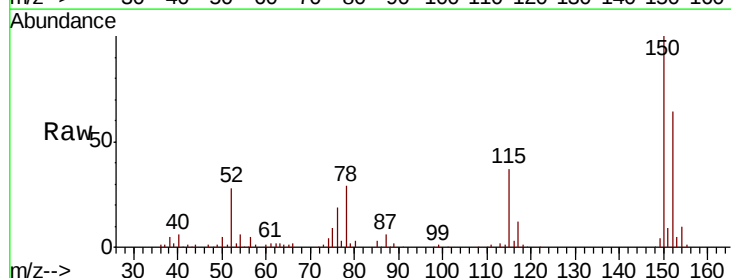


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3206  
Delta R.T. 0.00 min  
Lab File: VU028631.D  
Acq: 12 Dec 2018 00:53

Tgt Ion:152 Resp: 57346  
Ion Ratio Lower Upper  
152 100  
115 61.1 42.7 128.1  
150 158.6 0.0 346.0



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

