

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\  
 Data File : VU027147.D  
 Acq On : 25 Sep 2018 23:46  
 Operator : MD/SY  
 Sample : J4968-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ179I-20180916

Quant Time: Sep 26 07:04:44 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  | 89636    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 151213   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 147332   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 66292    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 95193    | 52.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.54% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 66147    | 50.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.94% |      |
| 50) Toluene-d8              | 7.57   | 98  | 244780   | 49.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.00%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 79265    | 46.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.50%  |      |

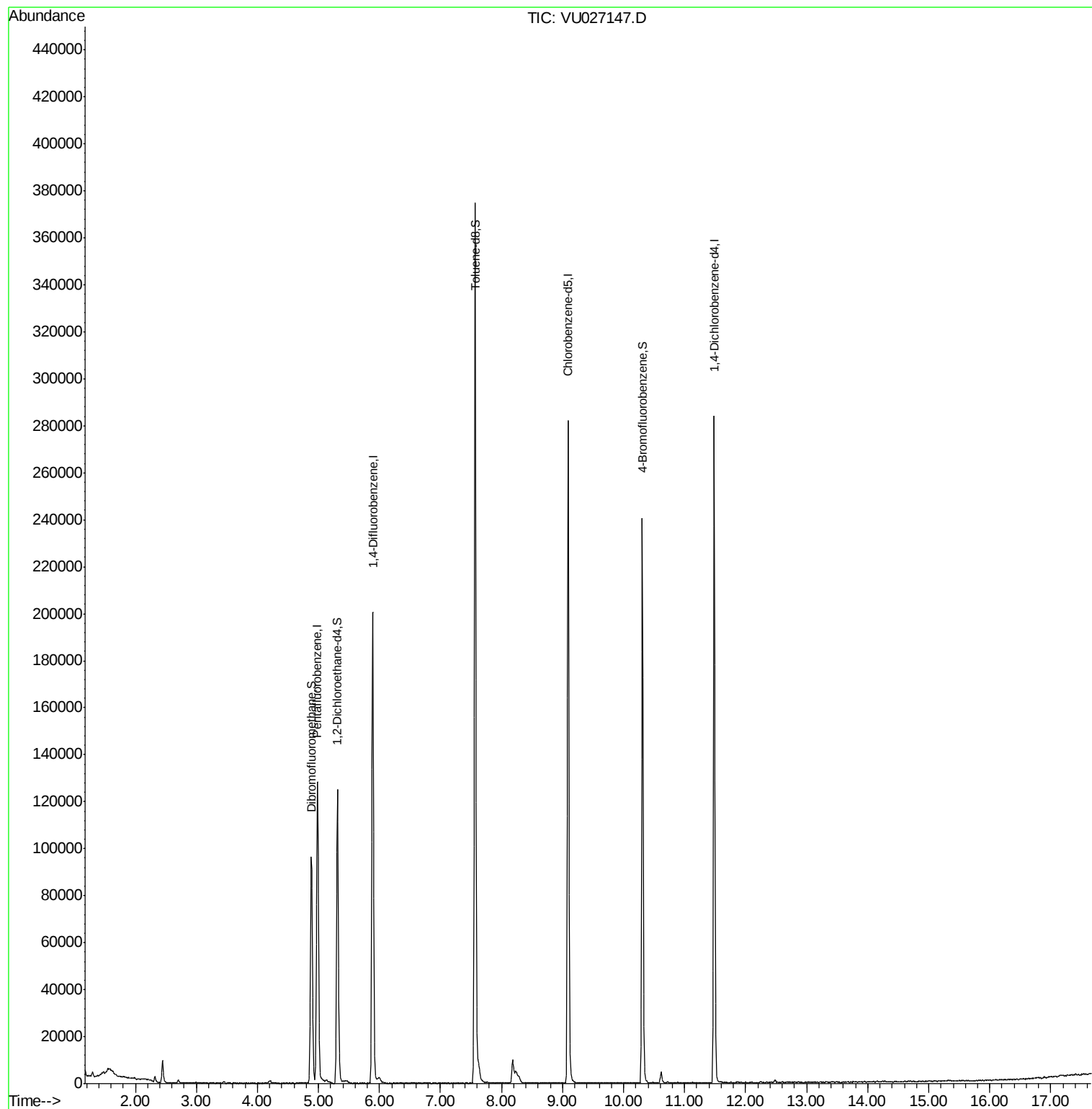
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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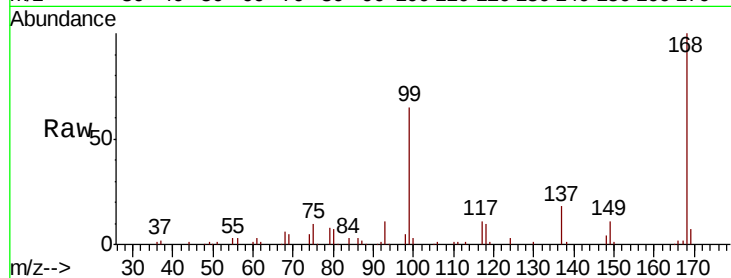




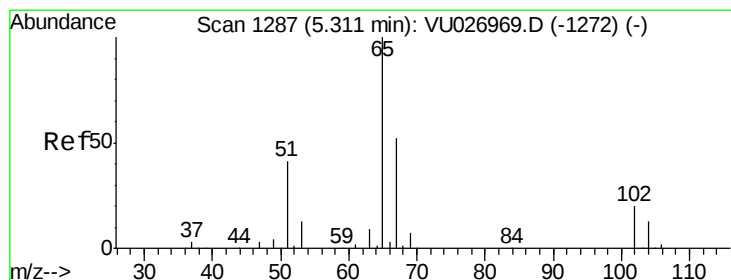
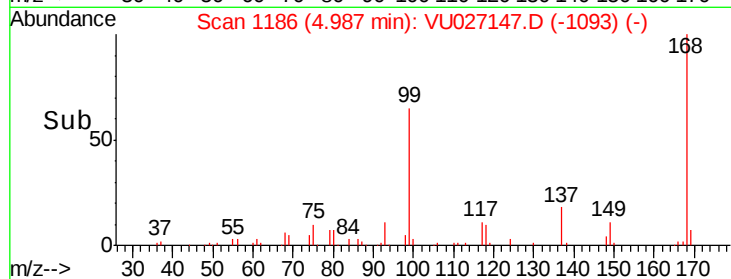
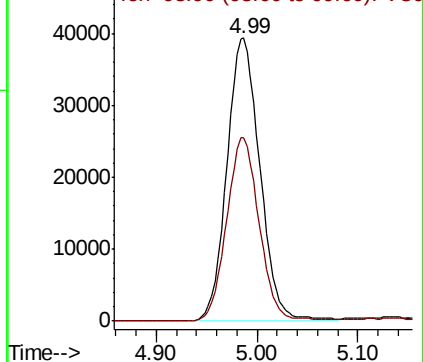
#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ179I-20180916

Tot Ion:168 Resp: 89636  
Ion Ratio Lower Upper  
168 100  
99 64.9 48.1 72.1

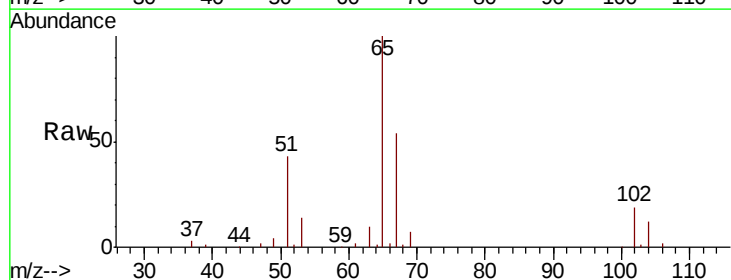


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)  
Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

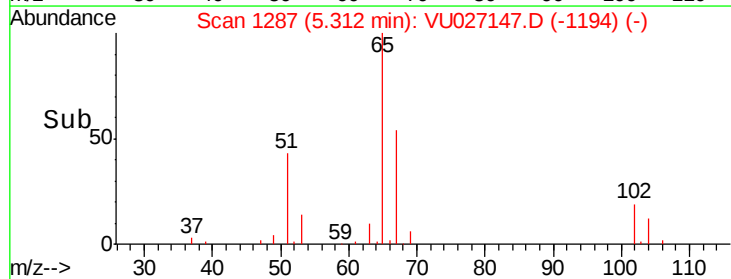
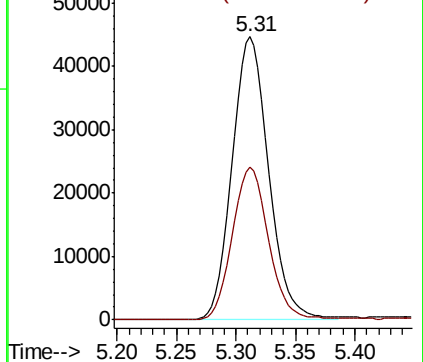


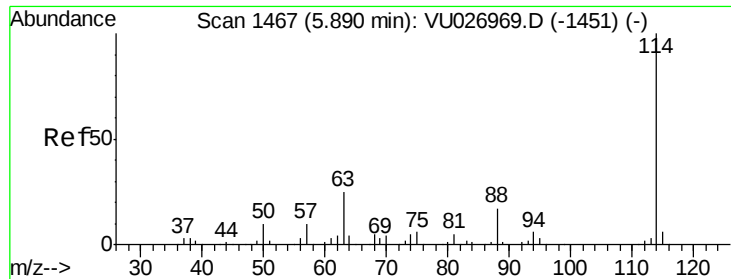
#33  
1,2-Dichloroethane-d4  
Concen: 52.766 ug/l  
RT: 5.31 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

Tgt Ion: 65 Resp: 95193  
Ion Ratio Lower Upper  
65 100  
67 53.4 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) (-)

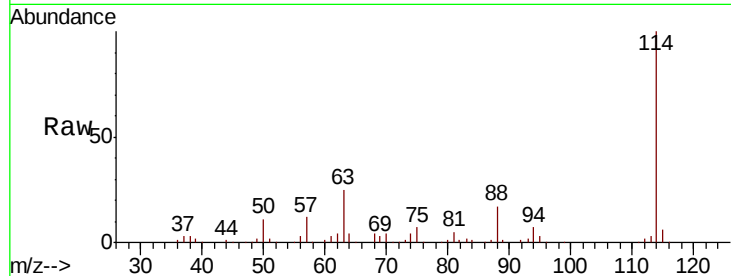




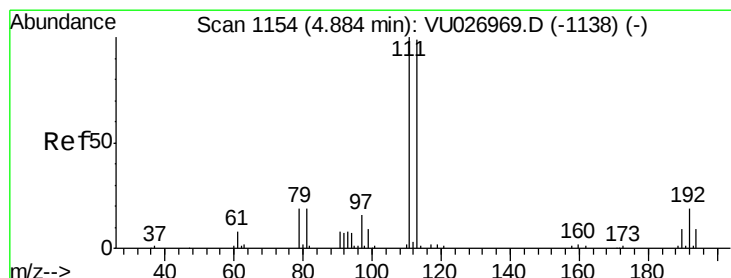
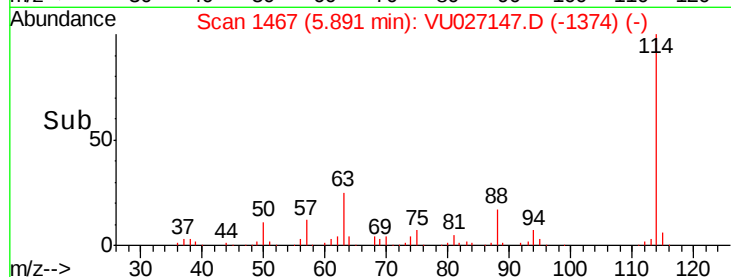
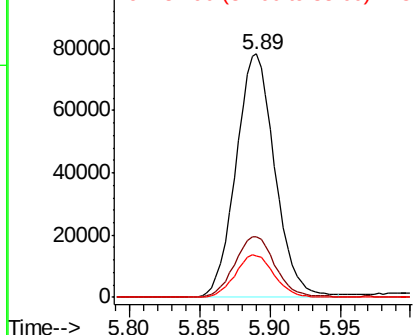
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027147.D  
 Acq: 25 Sep 2018 23:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ179I-20180916

Tot Ion:114 Resp: 151213  
 Ion Ratio Lower Upper  
 114 100  
 63 24.8 0.0 49.2  
 88 17.2 0.0 33.8

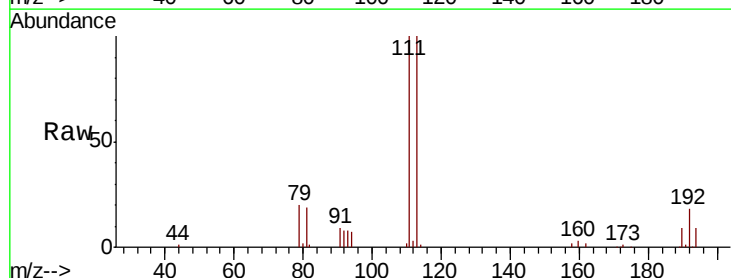


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

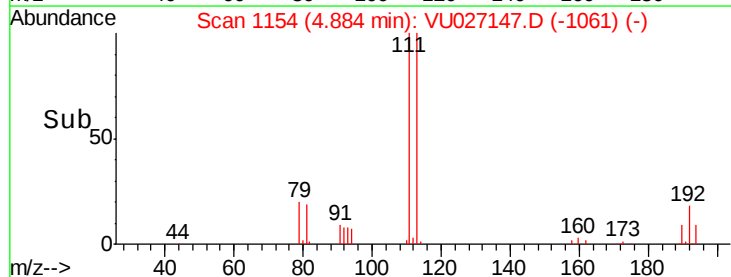
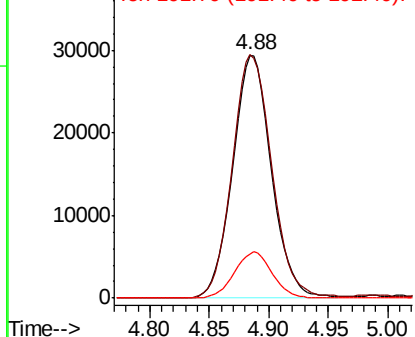


#35  
 Dibromofluoromethane  
 Concen: 50.466 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027147.D  
 Acq: 25 Sep 2018 23:46

Tgt Ion:113 Resp: 66147  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 82.2 123.4  
 192 18.4 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

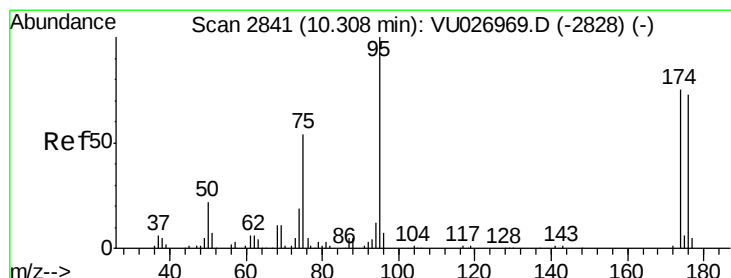
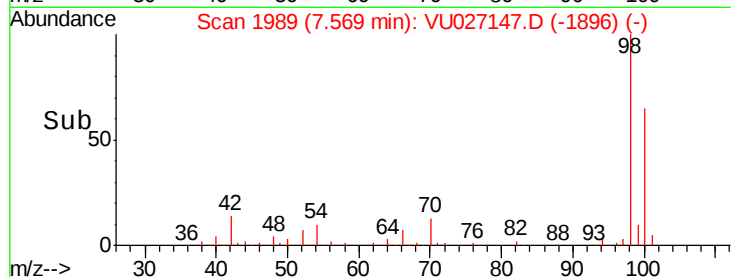
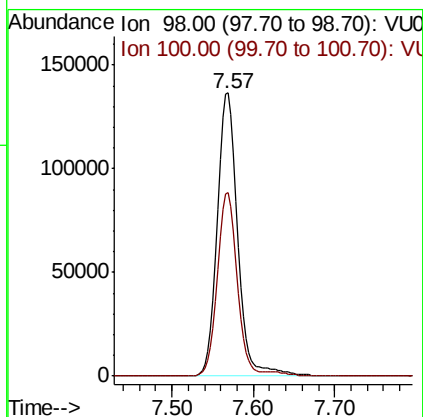
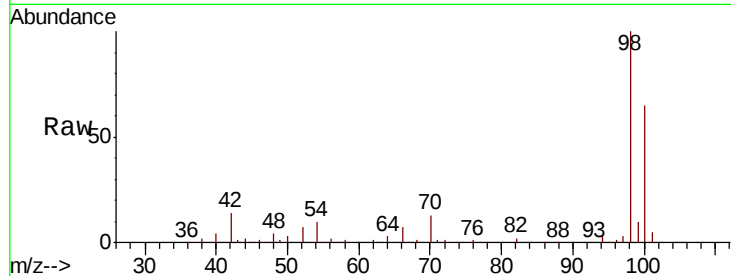




#50  
Toluene-d8  
Concen: 49.003 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

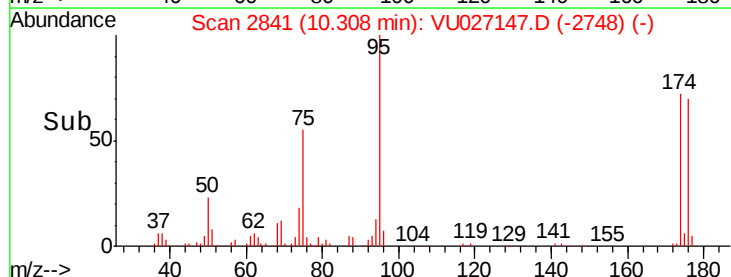
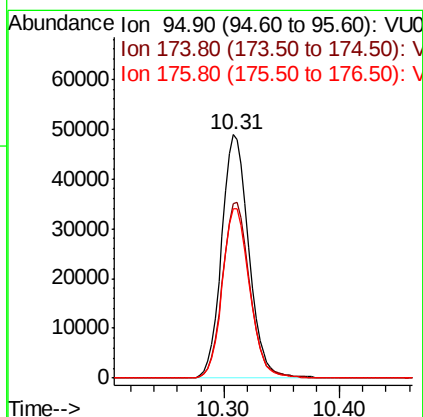
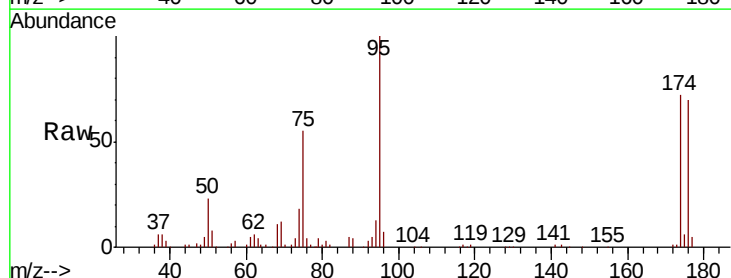
Instrument :  
MSVOA\_U  
ClientSampleId :  
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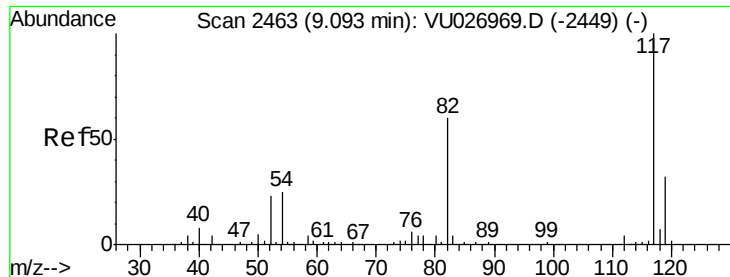
Tot Ion: 98 Resp: 244780  
Ion Ratio Lower Upper  
98 100  
100 64.0 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 46.245 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

Tgt Ion: 95 Resp: 79265  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 150.2  
176 69.9 0.0 145.2

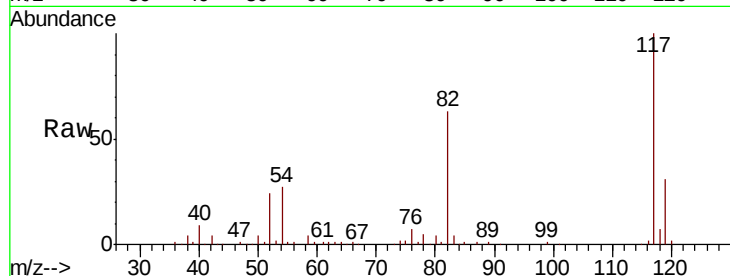




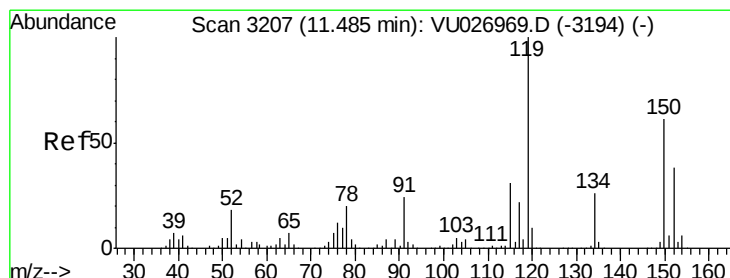
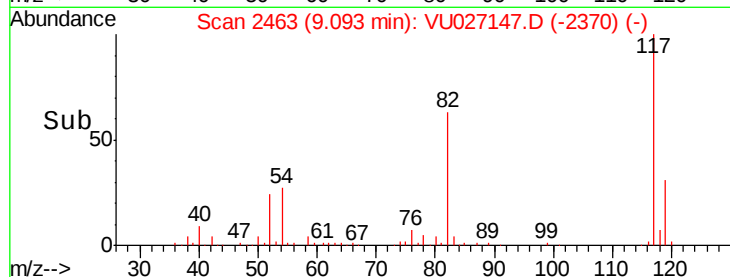
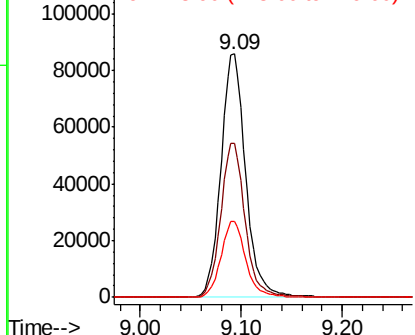
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ179I-20180916

Tot Ion:117 Resp: 147332  
Ion Ratio Lower Upper  
117 100  
82 63.1 48.0 72.0  
119 31.4 25.8 38.8

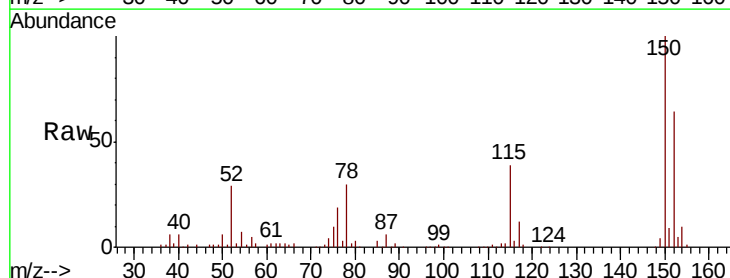


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027147.D  
Acq: 25 Sep 2018 23:46

Tgt Ion:152 Resp: 66292  
Ion Ratio Lower Upper  
152 100  
115 62.7 44.9 134.5  
150 158.5 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

