

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092318\  
 Data File : VU027052.D  
 Acq On : 23 Sep 2018 06:07  
 Operator : MD/SY  
 Sample : J4963-06  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 94 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ122D-20180914

Quant Time: Sep 24 06:42:52 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  | 93837    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 157497   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 151800   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 71574    | 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   | 97390    | 51.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.14% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 67302    | 49.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.60%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 255086   | 49.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.06%  |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 81953    | 45.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.82%  |          |

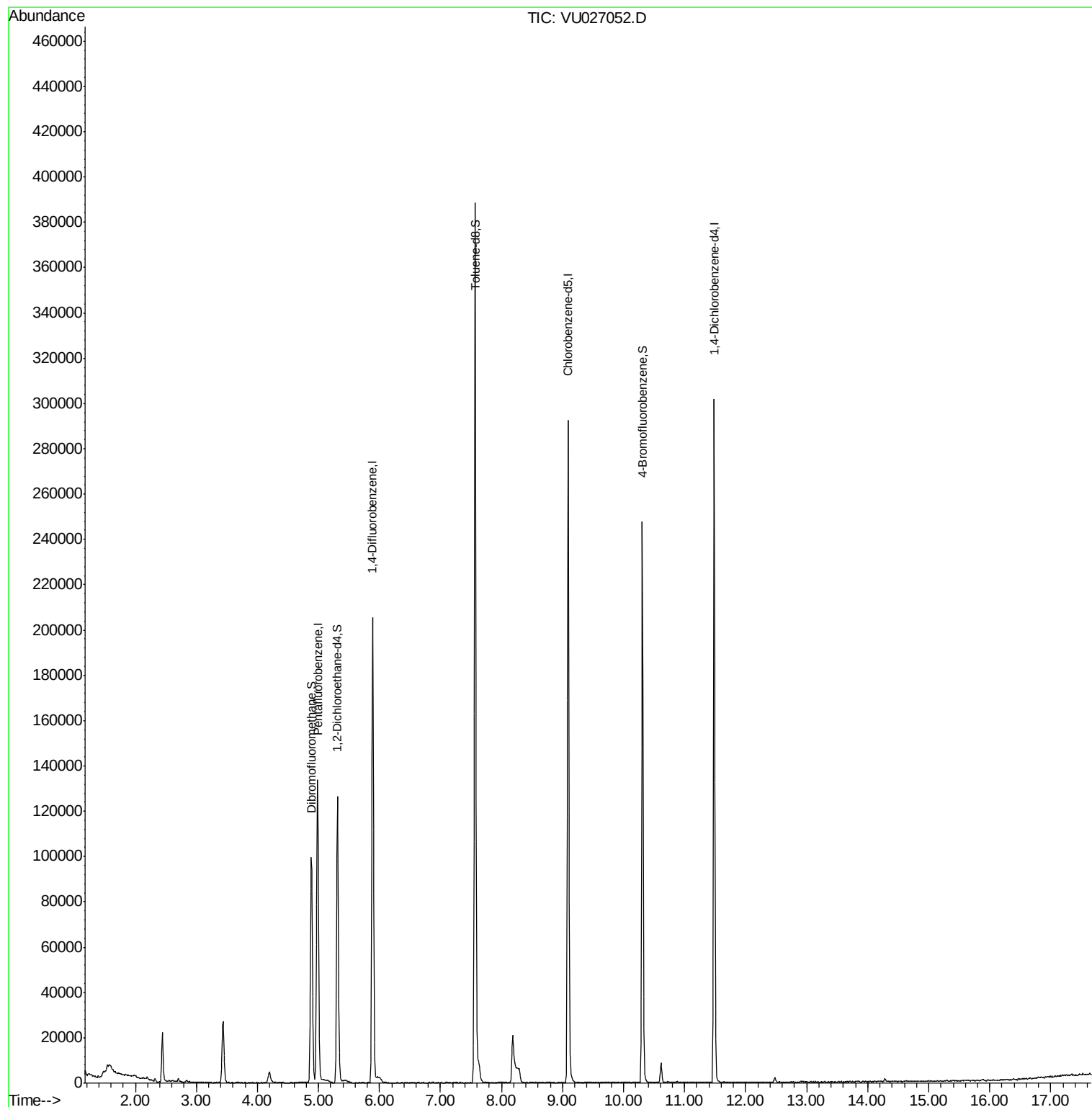
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

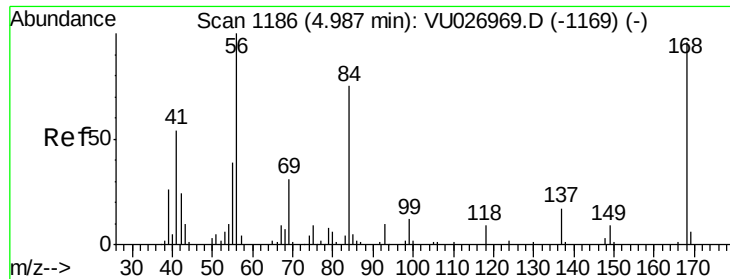
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027052.D

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Instrument :

MSVOA\_U

ClientSampleId :

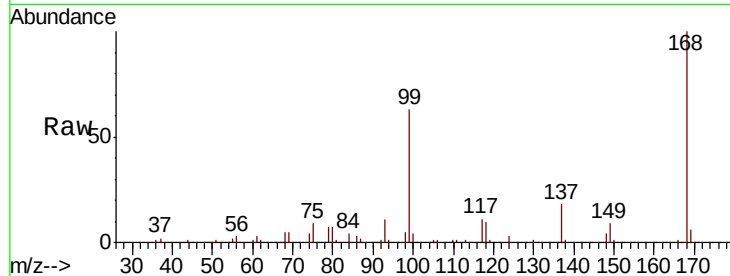
SA-PZ122D-20180914

Tot Ion:168 Resp: 93837

Ion Ratio Lower Upper

168 100

99 62.6 48.1 72.1



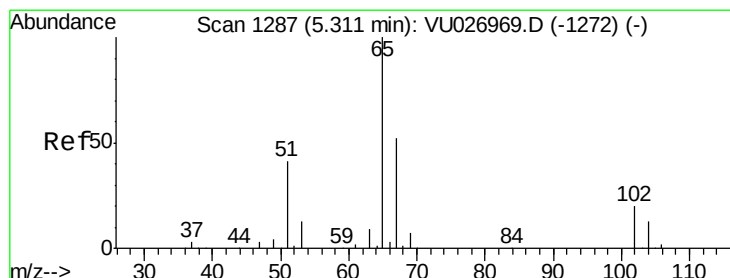
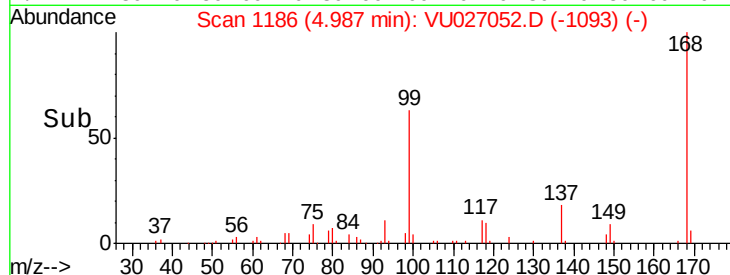
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

4.95 5.00 5.05

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.567 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027052.D

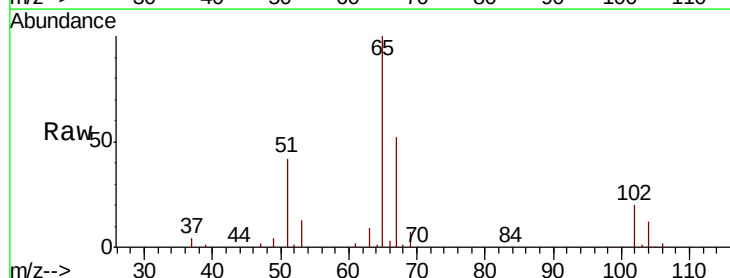
Acq: 23 Sep 2018 06:07

Tgt Ion: 65 Resp: 97390

Ion Ratio Lower Upper

65 100

67 52.8 0.0 105.6



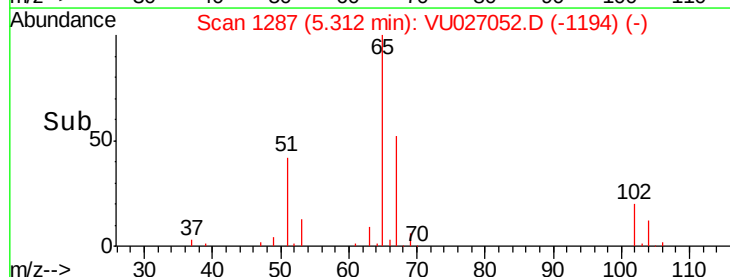
Abundance Ion 64.90 (64.60 to 65.60): VU026969.D (-1272) (-)

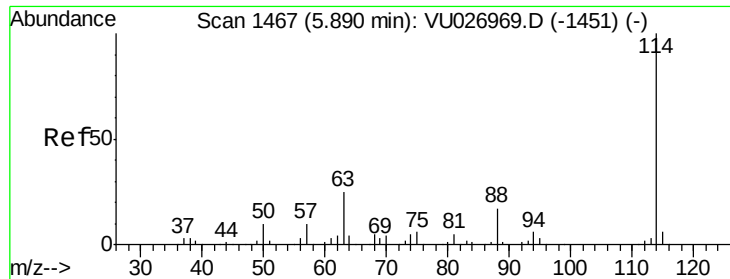
Ion 66.90 (66.60 to 67.60): VU026969.D (-1272) (-)

5.31

5.20 5.25 5.30 5.35 5.40

Time-->

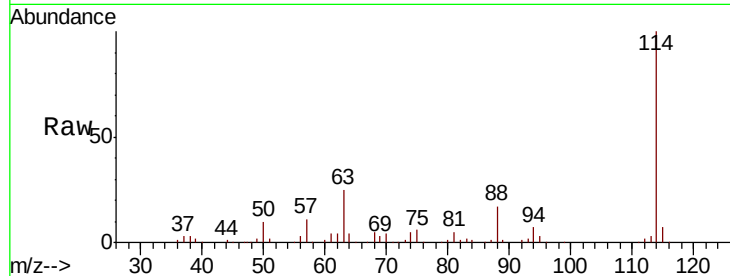




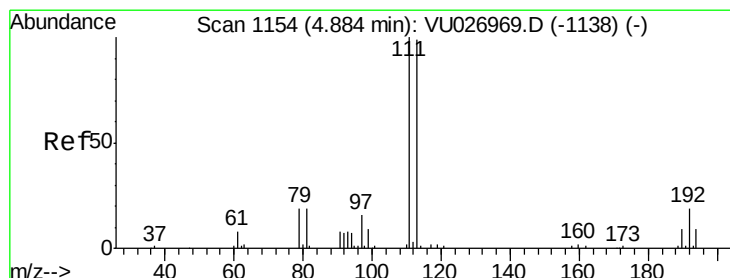
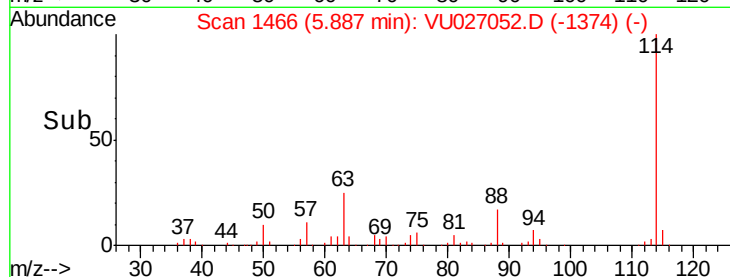
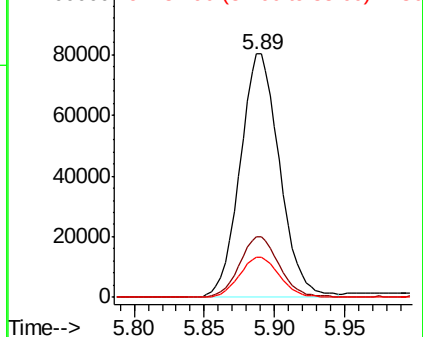
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: VU027052.D  
 Acq: 23 Sep 2018 06:07

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ122D-20180914

Tot Ion:114 Resp: 157497  
 Ion Ratio Lower Upper  
 114 100  
 63 25.1 0.0 49.2  
 88 16.6 0.0 33.8

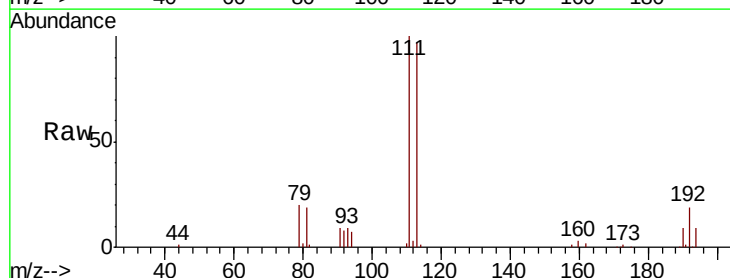


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

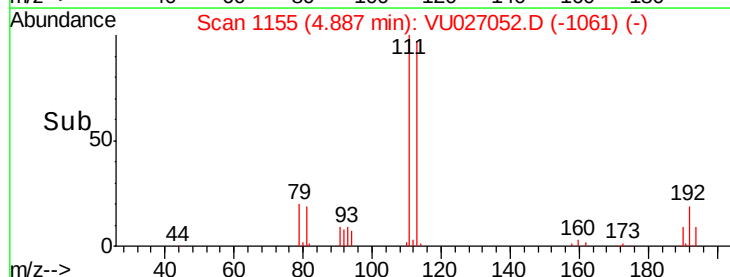
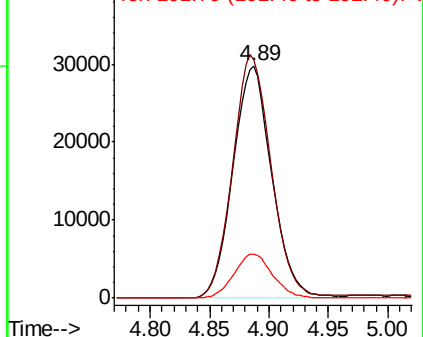


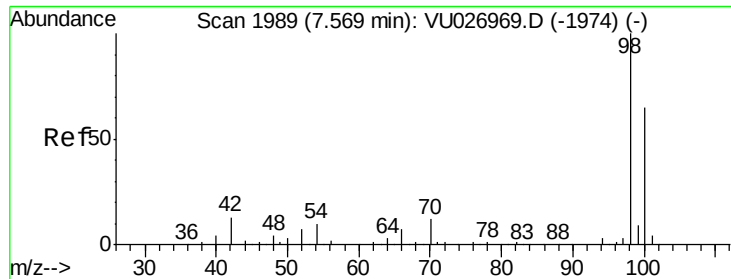
#35  
 Dibromofluoromethane  
 Concen: 49.299 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027052.D  
 Acq: 23 Sep 2018 06:07

Tgt Ion:113 Resp: 67302  
 Ion Ratio Lower Upper  
 113 100  
 111 103.8 82.2 123.4  
 192 18.8 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

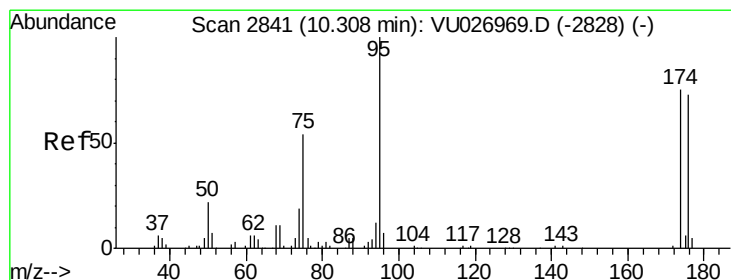
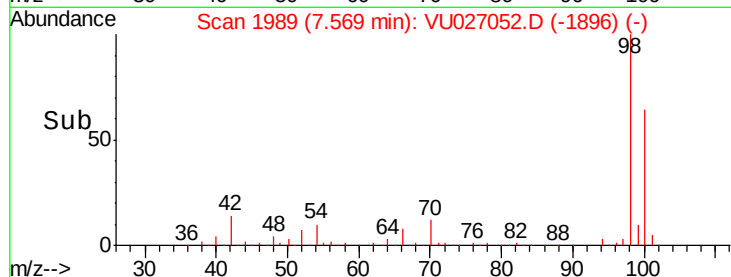
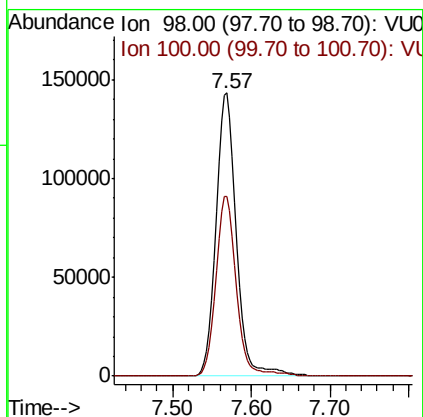
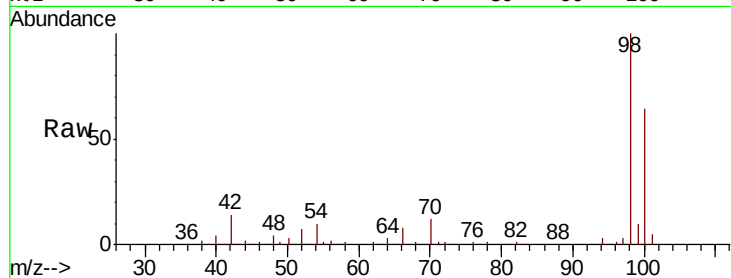




#50  
Toluene-d8  
Concen: 49.029 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027052.D  
Acq: 23 Sep 2018 06:07

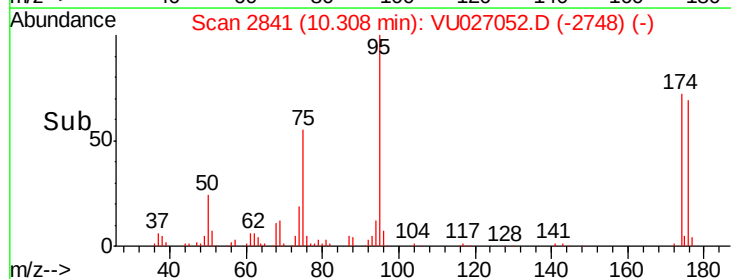
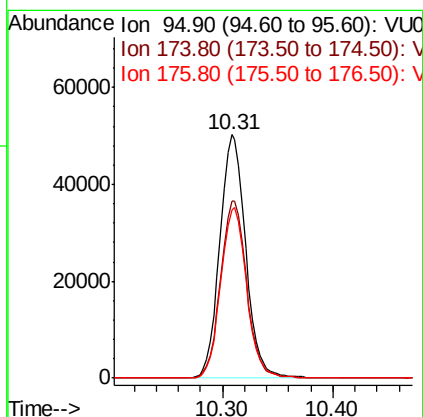
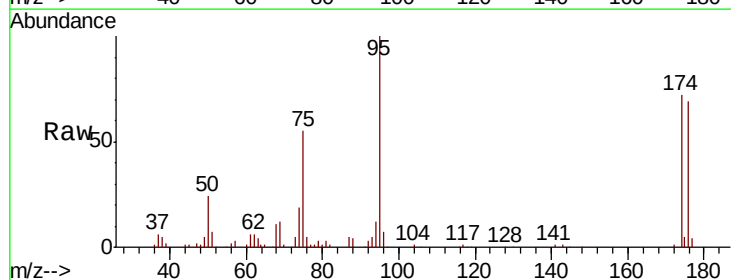
Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ122D-20180914

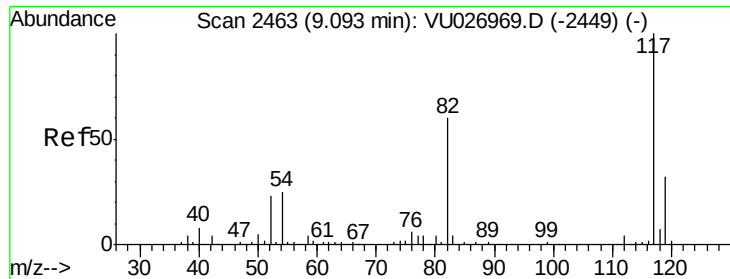
Tot Ion: 98 Resp: 255086  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 45.906 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU027052.D  
Acq: 23 Sep 2018 06:07

Tgt Ion: 95 Resp: 81953  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 150.2  
176 70.4 0.0 145.2

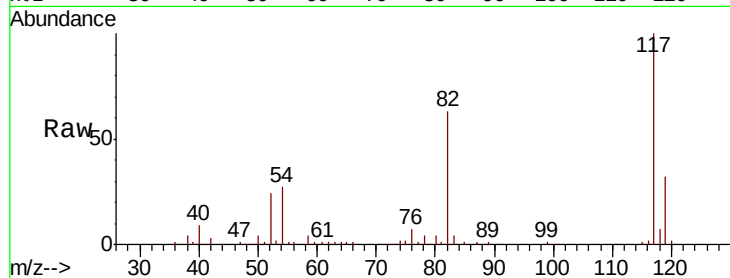




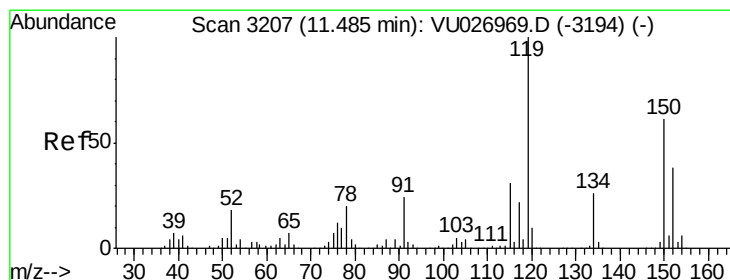
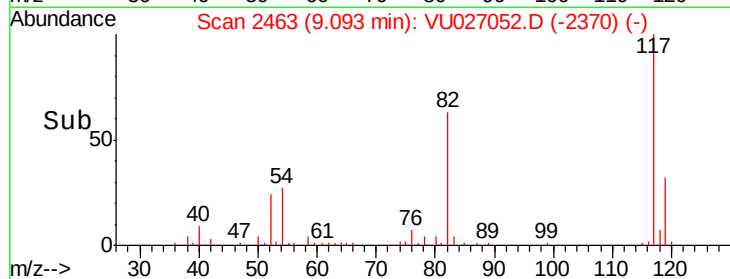
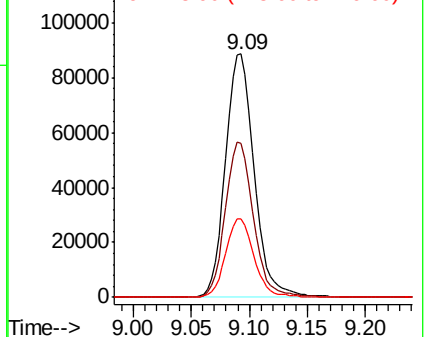
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2463  
Delta R.T. 0.00 min  
Lab File: VU027052.D  
Acq: 23 Sep 2018 06:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ122D-20180914

Tot Ion:117 Resp: 151800  
Ion Ratio Lower Upper  
117 100  
82 63.5 48.0 72.0  
119 32.2 25.8 38.8

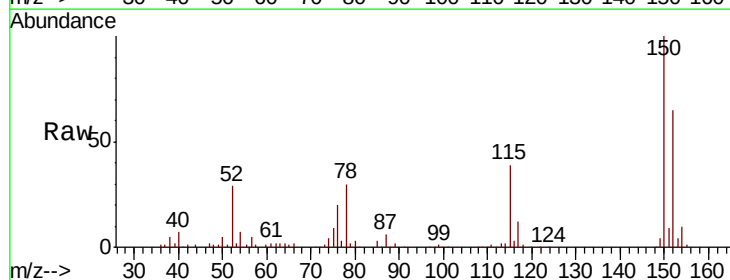


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027052.D  
Acq: 23 Sep 2018 06:07

Tgt Ion:152 Resp: 71574  
Ion Ratio Lower Upper  
152 100  
115 60.6 44.9 134.5  
150 155.5 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

