

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\  
 Data File : VX005501.D  
 Acq On : 23 Oct 2018 05:53  
 Operator : JC/MD  
 Sample : J5624-10  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PA-SW-02

Quant Time: Oct 23 13:18:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 227989   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 325455   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 280555   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 134303   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 140945   | 55.70 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.40% |       |
| 35) Dibromofluoromethane    | 5.50   | 113 | 114255   | 53.00 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.00% |       |
| 50) Toluene-d8              | 8.71   | 98  | 373967   | 50.53 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.06% |       |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 122877   | 44.20 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.40%  |       |

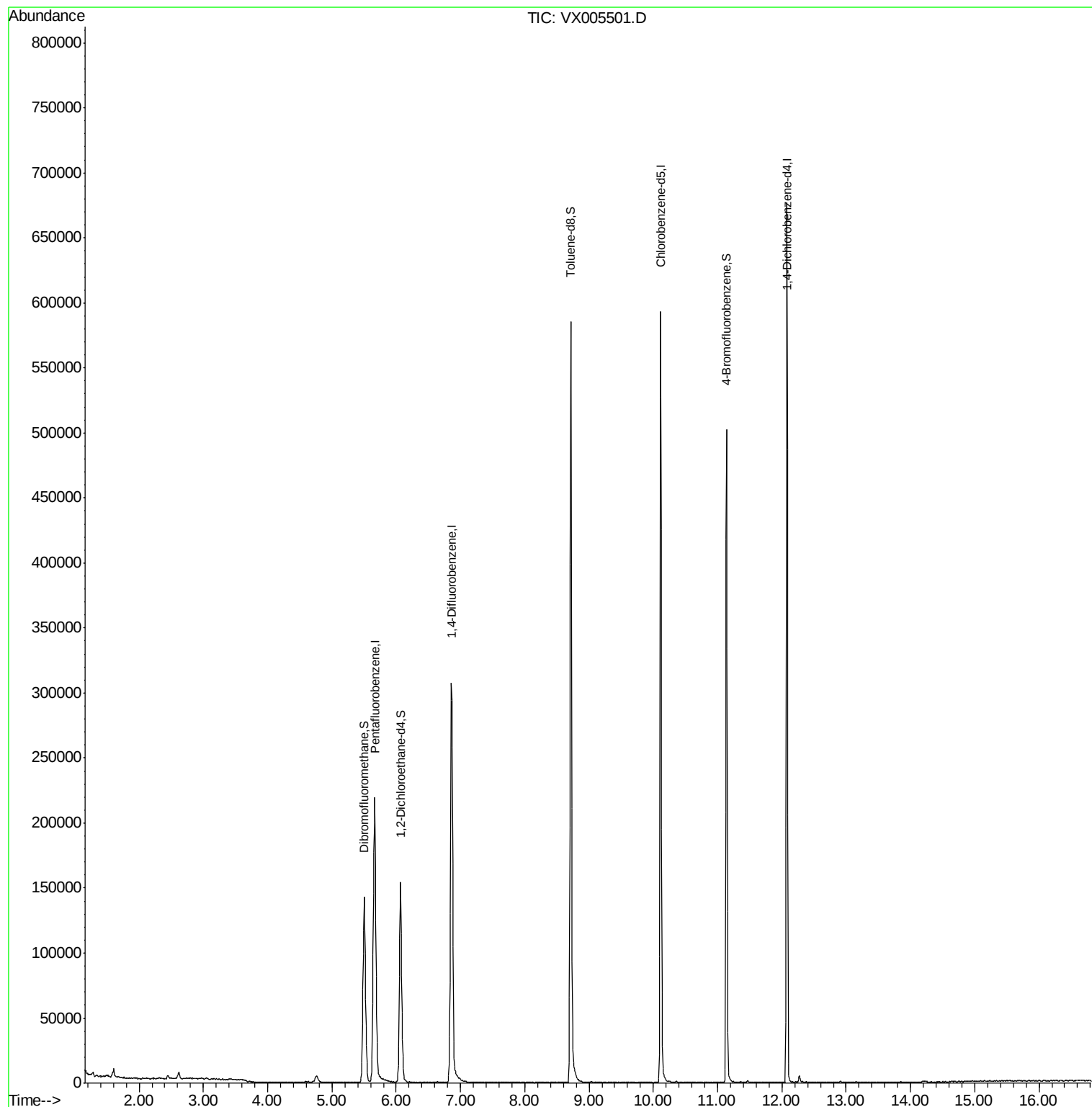
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

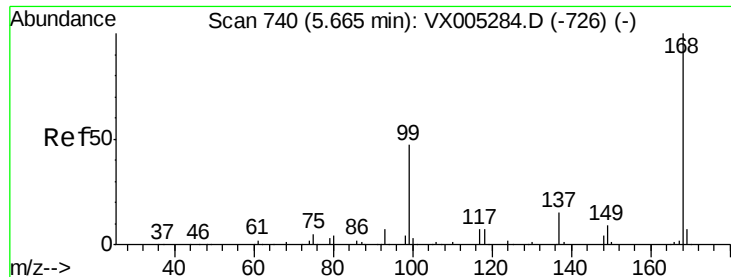
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005501.D

Acq: 23 Oct 2018 05:53

Instrument :

MSVOA\_X

ClientSampleId :

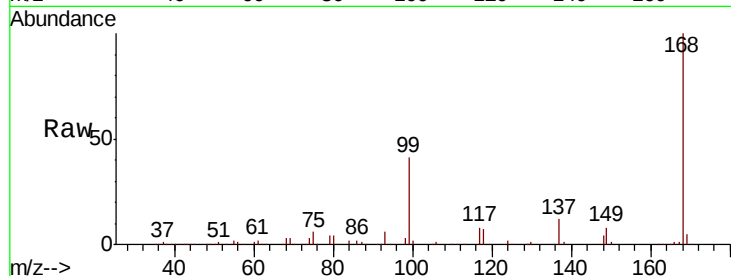
PA-SW-02

Tot Ion:168 Resp: 227989

Ion Ratio Lower Upper

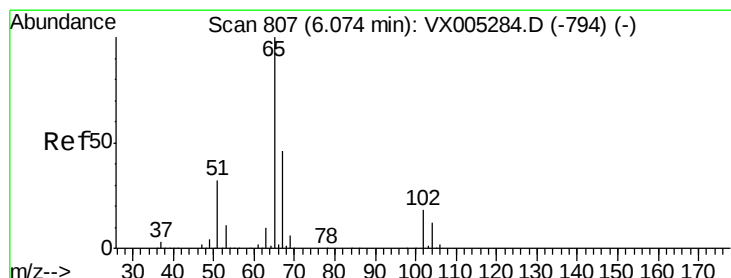
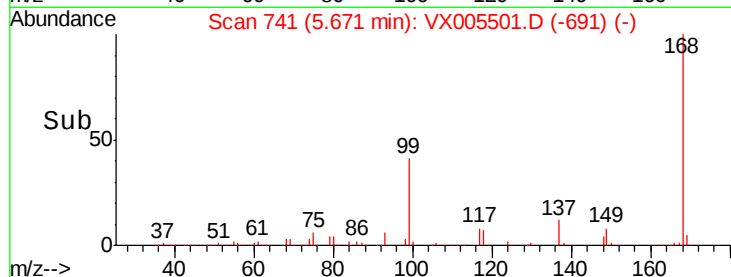
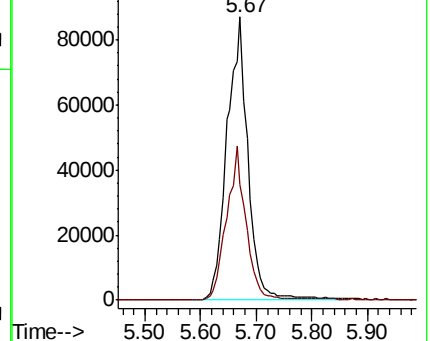
168 100

99 40.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.702 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005501.D

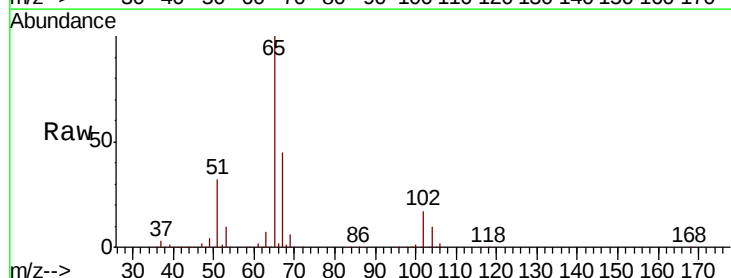
Acq: 23 Oct 2018 05:53

Tgt Ion: 65 Resp: 140945

Ion Ratio Lower Upper

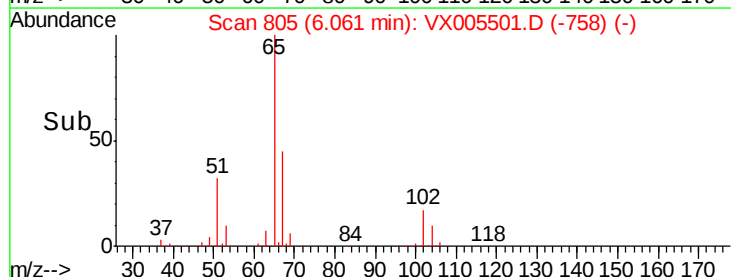
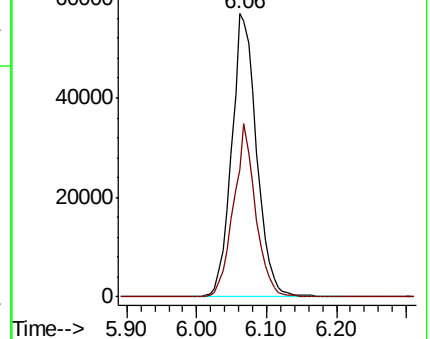
65 100

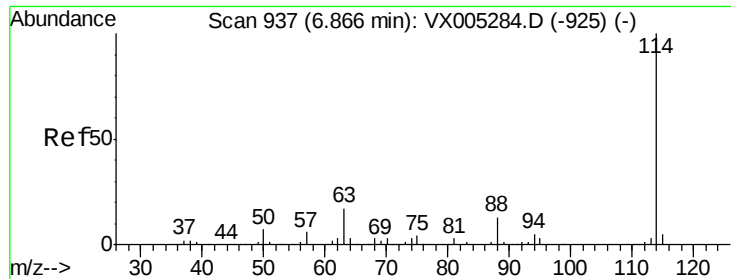
67 53.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

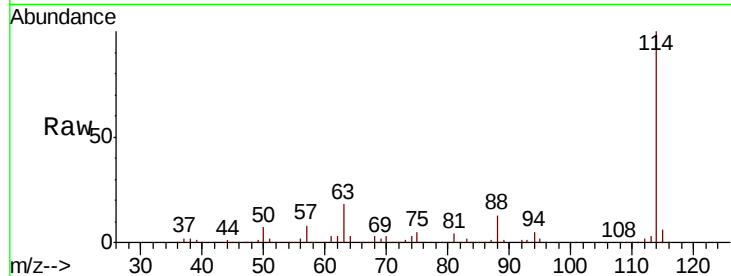




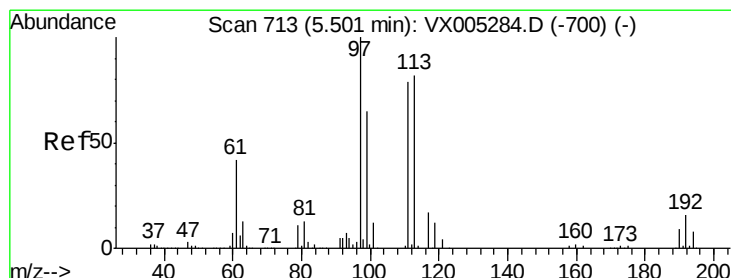
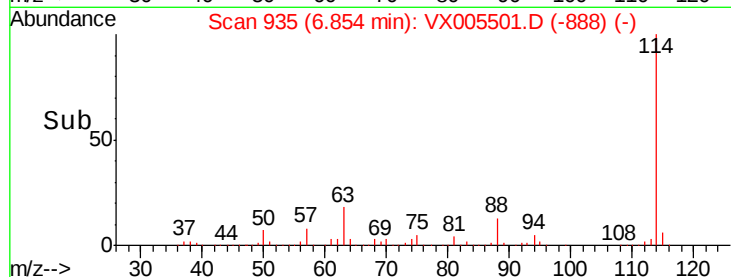
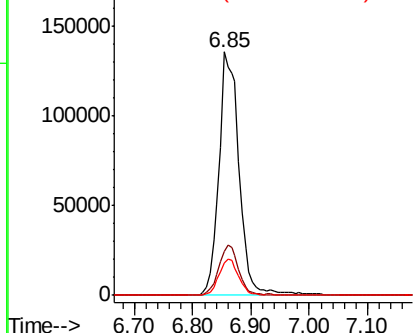
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. -0.01 min  
 Lab File: VX005501.D  
 Acq: 23 Oct 2018 05:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PA-SW-02

Tot Ion:114 Resp: 325455  
 Ion Ratio Lower Upper  
 114 100  
 63 18.0 0.0 39.0  
 88 13.1 0.0 30.4

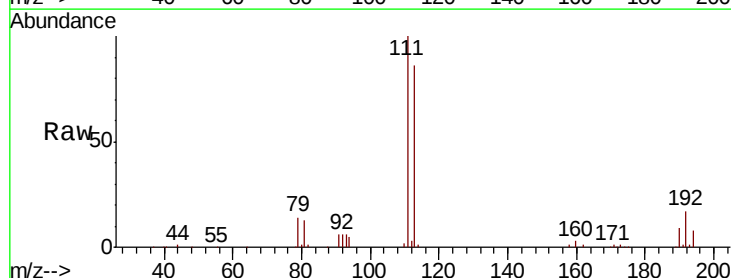


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

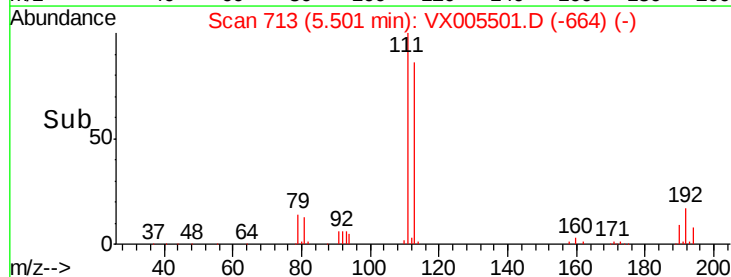
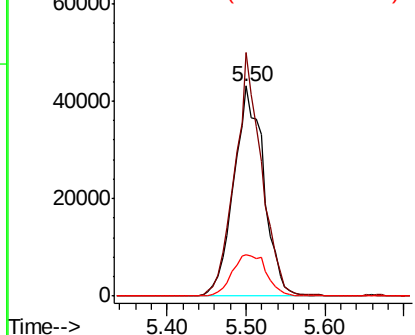


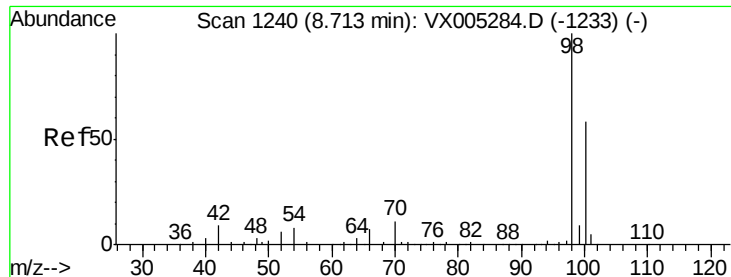
#35  
 Dibromofluoromethane  
 Concen: 53.005 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX005501.D  
 Acq: 23 Oct 2018 05:53

Tgt Ion:113 Resp: 114255  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 82.4 123.6  
 192 22.7 19.4 29.2



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: 50.535 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005501.D

Acq: 23 Oct 2018 05:53

Instrument :

MSVOA\_X

ClientSampleId :

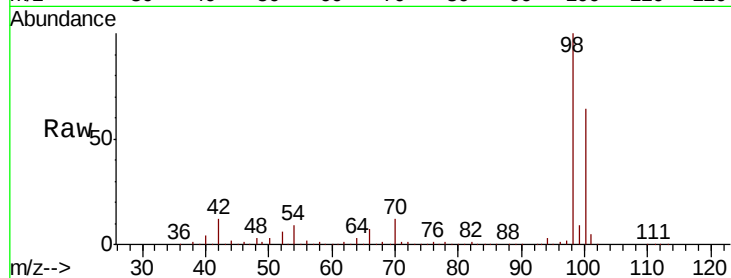
PA-SW-02

Tot Ion: 98 Resp: 373967

Ion Ratio Lower Upper

98 100

100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

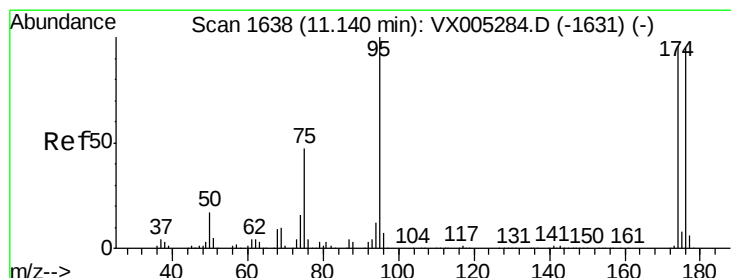
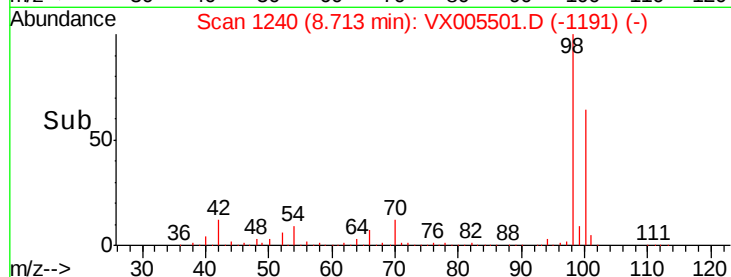
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.200 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005501.D

Acq: 23 Oct 2018 05:53

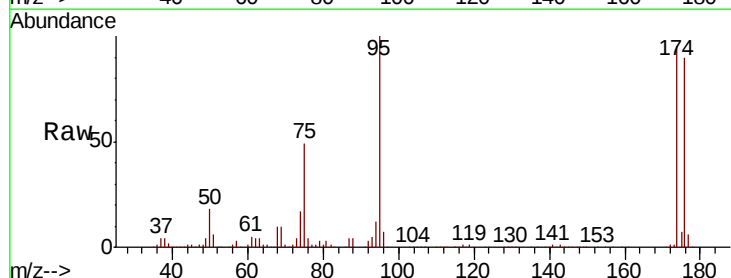
Tgt Ion: 95 Resp: 122877

Ion Ratio Lower Upper

95 100

174 93.1 0.0 185.2

176 88.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

120000

100000

80000

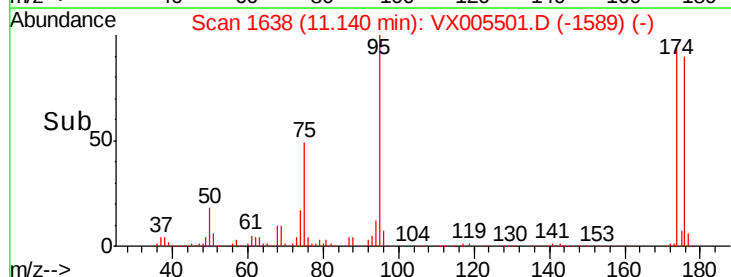
60000

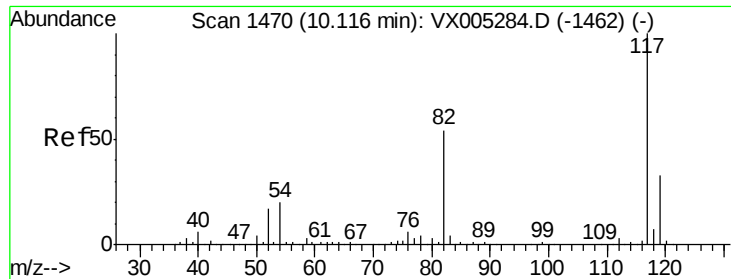
40000

20000

0

Time-->

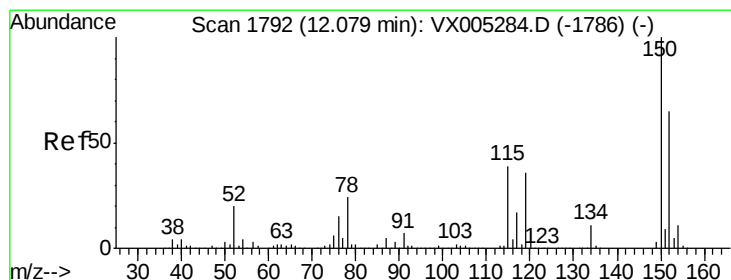
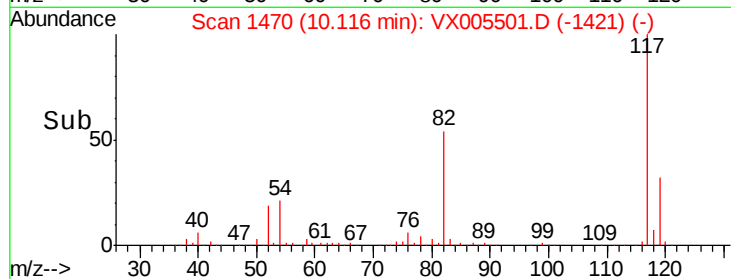
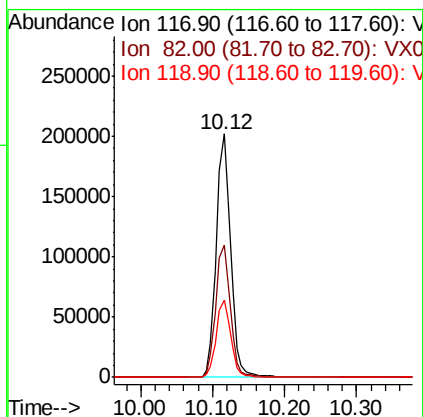
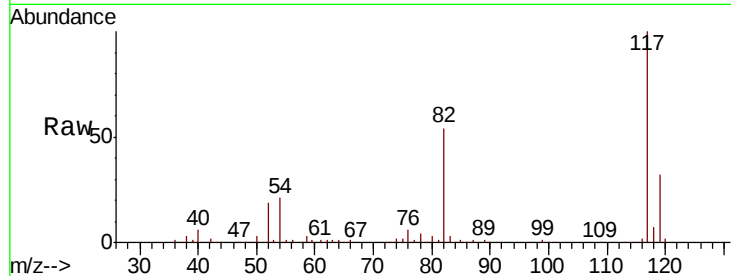




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005501.D  
Acq: 23 Oct 2018 05:53

Instrument :  
MSVOA\_X  
ClientSampled :  
PA-SW-02

Tot Ion:117 Resp: 280555  
Ion Ratio Lower Upper  
117 100  
82 54.4 47.8 71.6  
119 31.5 29.3 43.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005501.D  
Acq: 23 Oct 2018 05:53

Tgt Ion:152 Resp: 134303  
Ion Ratio Lower Upper  
152 100  
115 56.2 39.0 117.0  
150 157.0 0.0 351.0

