

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032218\  
 Data File : VX000406.D  
 Acq On : 22 Mar 2018 15:13  
 Operator : JC/MD  
 Sample : J2005-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SUMP-031918

Quant Time: Mar 23 06:09:24 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 2018  
 Response via : Initial Calibration

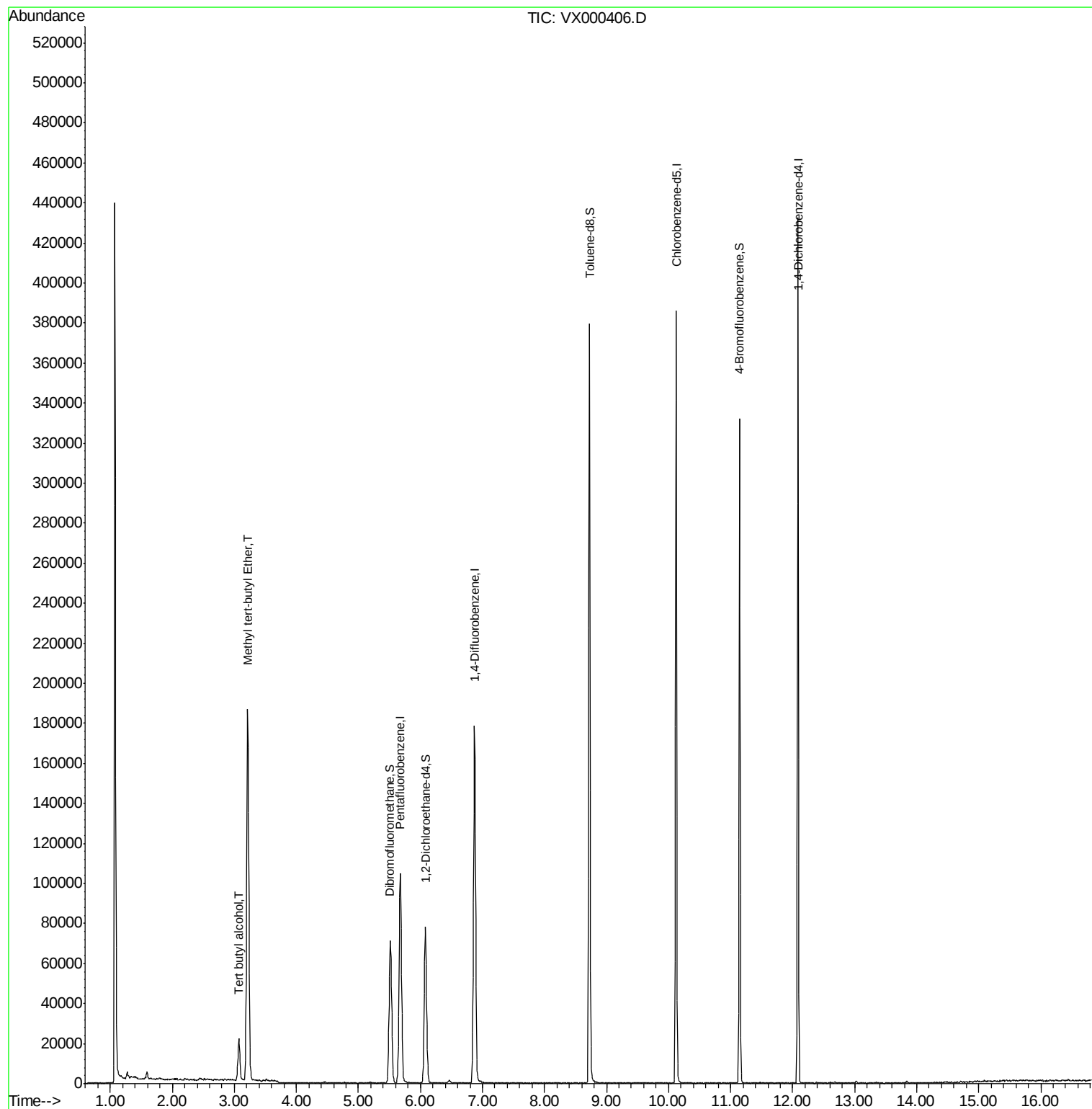
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 99441    | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.87  | 114  | 175964   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 170025   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.09 | 152  | 79293    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 72269    | 55.67 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.34% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 56515    | 50.97 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.94% |          |
| 50) Toluene-d8              | 8.73  | 98   | 220894   | 48.10 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.20%  |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 73797    | 39.51 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 79.02%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 11) Tert butyl alcohol      | 3.07  | 59   | 24797    | 55.54 | ug/l    | 98       |
| 19) Methyl tert-butyl Ether | 3.21  | 73   | 207846   | 52.14 | ug/l    | 99       |

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

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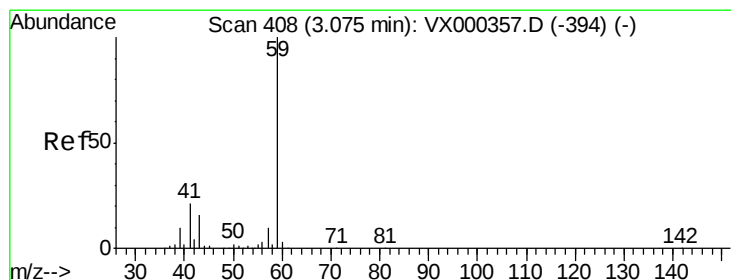
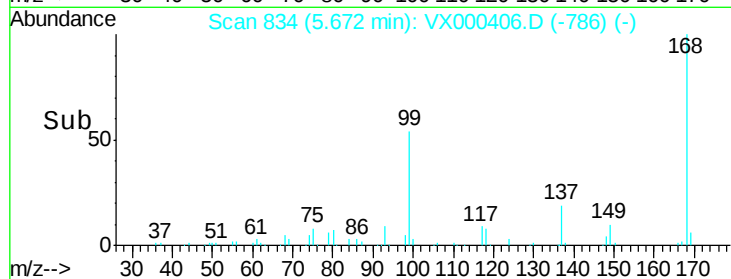
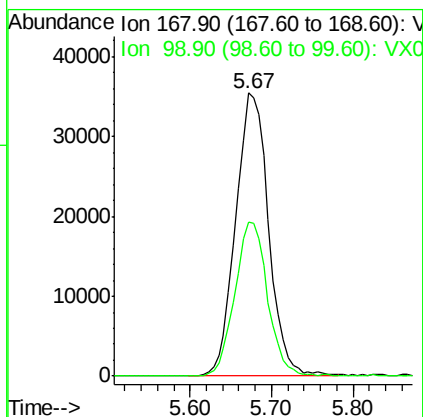
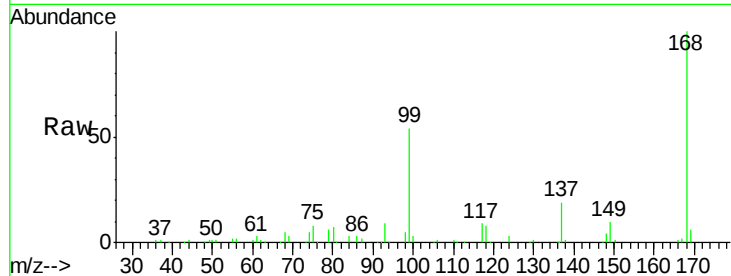




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.01 min  
Lab File: VX000406.D  
Acq: 22 Mar 2018 15:13

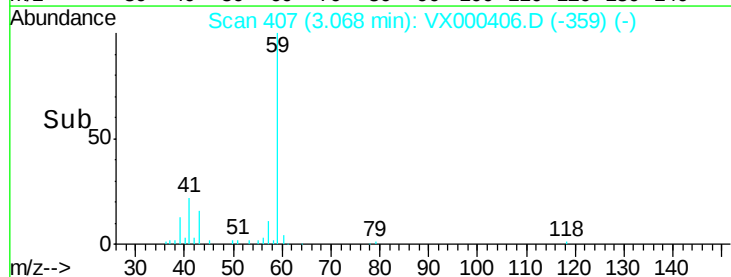
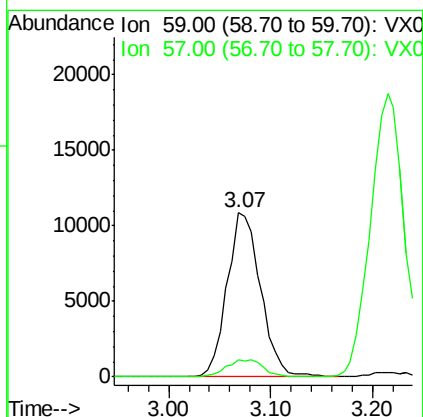
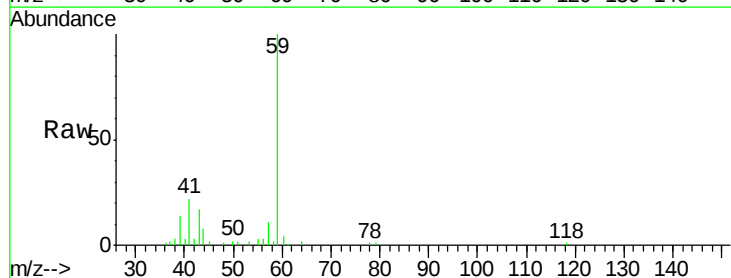
Instrument :  
MSVOA\_X  
ClientSampleId :  
SUMP-031918

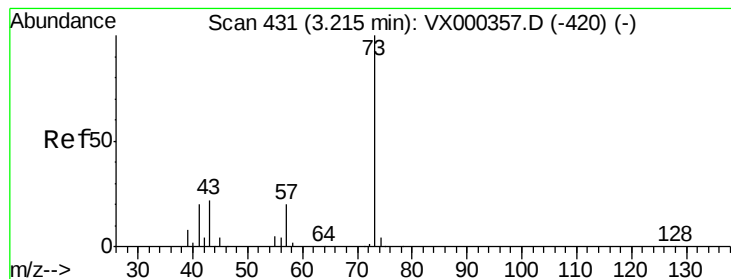
Tot Ion:168 Resp: 99441  
Ion Ratio Lower Upper  
168 100  
99 54.3 45.8 68.6



#11  
Tert butyl alcohol  
Concen: 55.54 ug/l  
RT: 3.07 min Scan# 407  
Delta R.T. -0.01 min  
Lab File: VX000406.D  
Acq: 22 Mar 2018 15:13

Tgt Ion: 59 Resp: 24797  
Ion Ratio Lower Upper  
59 100  
57 11.2 8.4 12.6



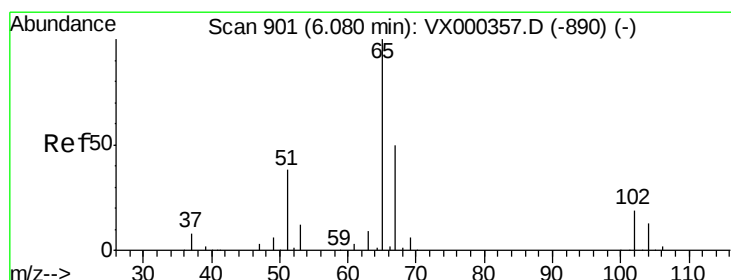
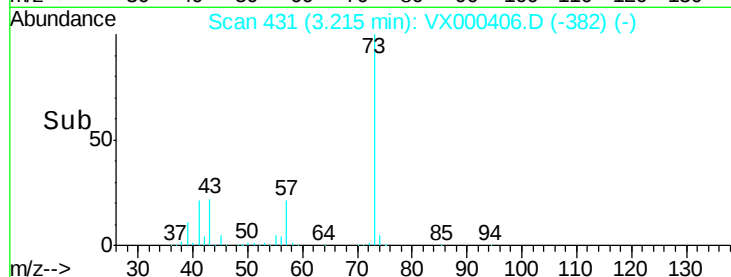
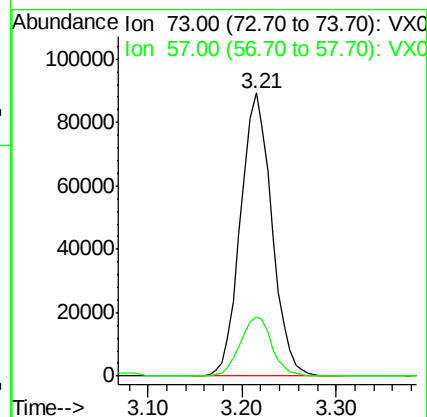
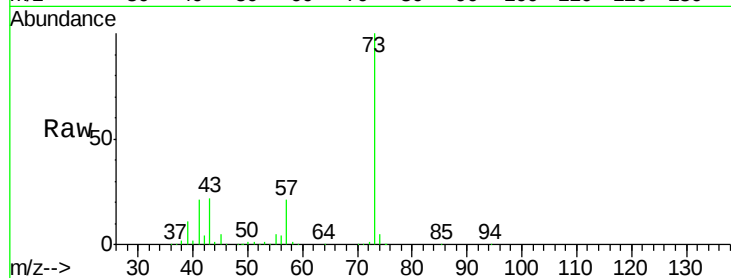


#19

Methvl tert-butvl Ether  
 Concen: 52.14 ug/l  
 RT: 3.21 min Scan# 431  
 Delta R.T. -0.00 min  
 Lab File: VX000406.D  
 Acq: 22 Mar 2018 15:13

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SUMP-031918

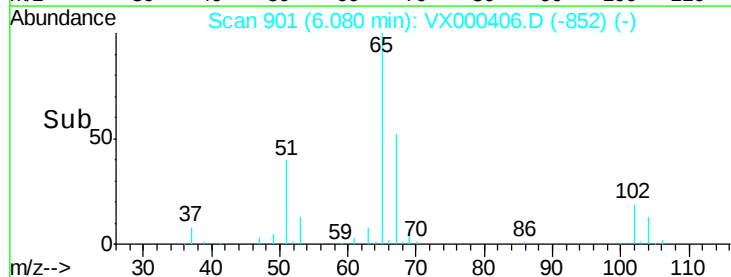
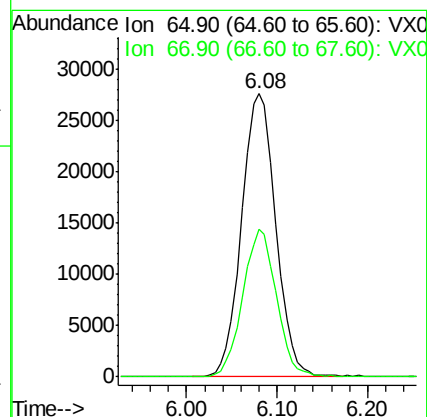
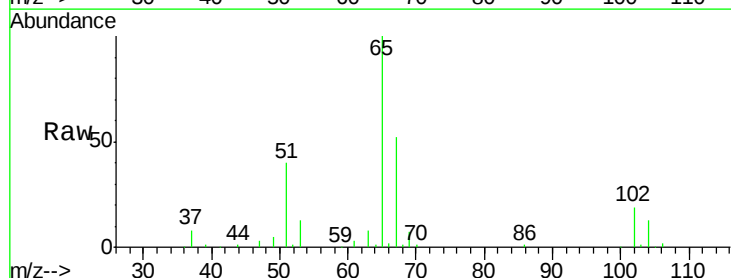
Tot Ion: 73 Resp: 207846  
 Ion Ratio Lower Upper  
 73 100  
 57 21.0 17.2 25.8

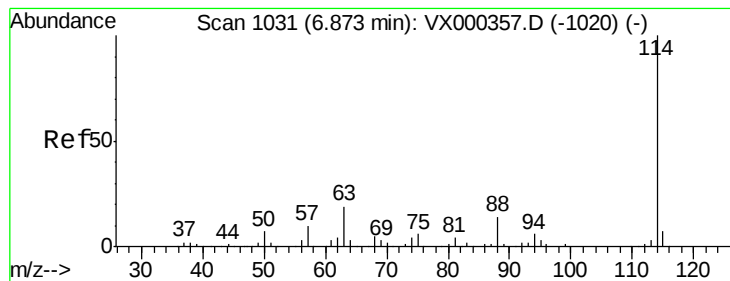


#33

1,2-Dichloroethane-d4  
 Concen: 55.67 ug/l  
 RT: 6.08 min Scan# 901  
 Delta R.T. 0.00 min  
 Lab File: VX000406.D  
 Acq: 22 Mar 2018 15:13

Tgt Ion: 65 Resp: 72269  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 103.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000406.D

Acq: 22 Mar 2018 15:13

Instrument :

MSVOA\_X

ClientSampleId :

SUMP-031918

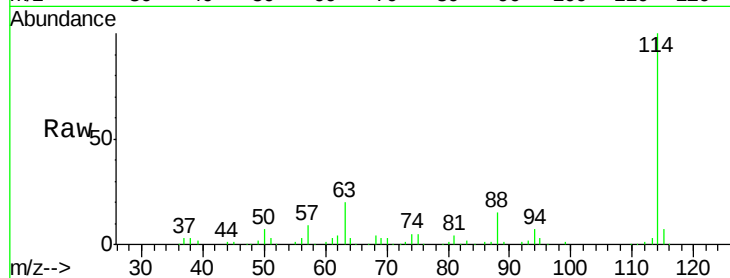
Tot Ion:114 Resp: 175964

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

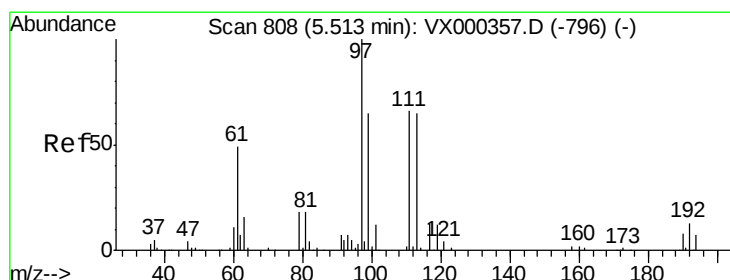
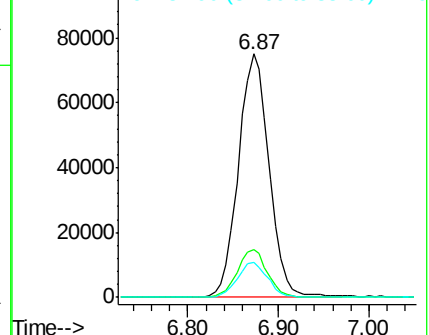
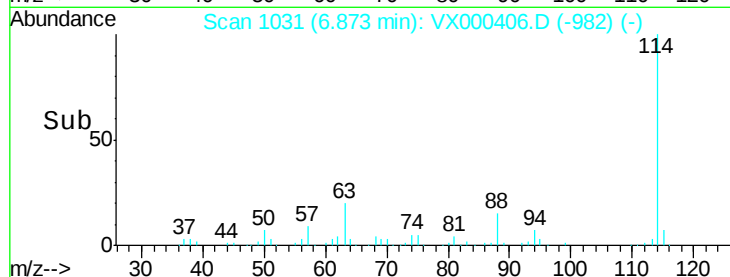
88 14.6 0.0 27.0



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: 50.97 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000406.D

Acq: 22 Mar 2018 15:13

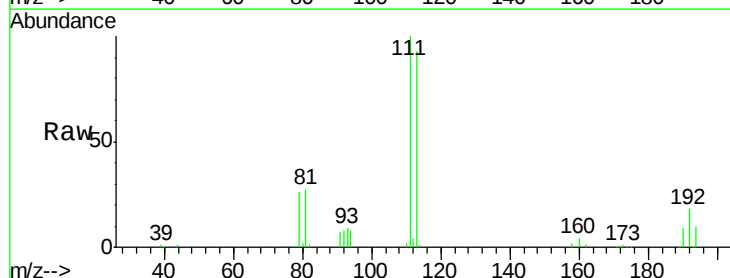
Tgt Ion:113 Resp: 56515

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

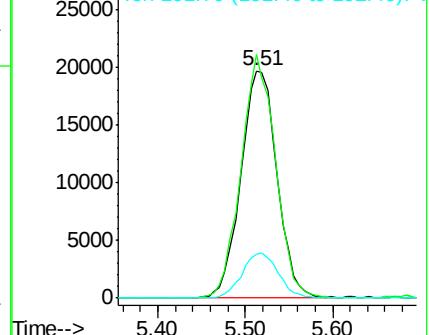
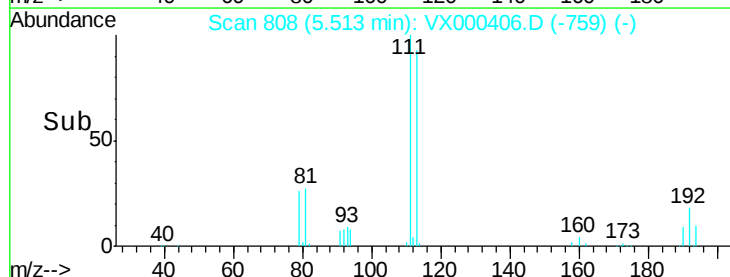
192 20.1 15.8 23.6

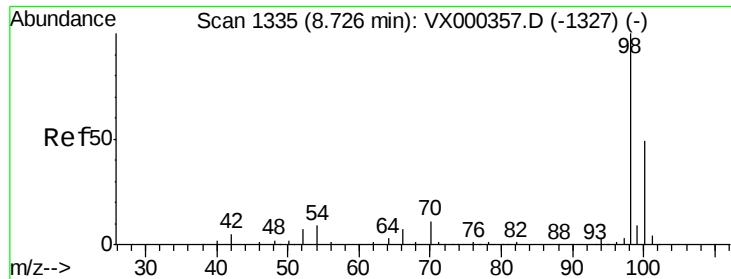


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 48.10 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000406.D

Acq: 22 Mar 2018 15:13

Instrument :

MSVOA\_X

ClientSampleId :

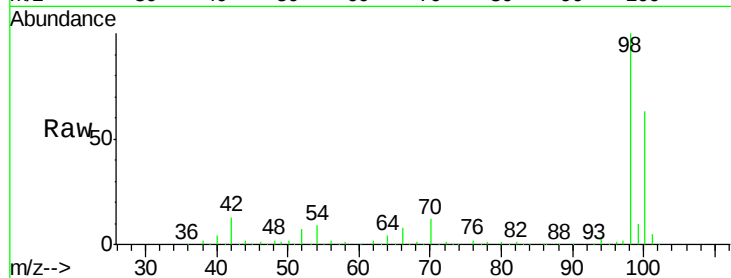
SUMP-031918

Tot Ion: 98 Resp: 220894

Ion Ratio Lower Upper

98 100

100 62.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

150000

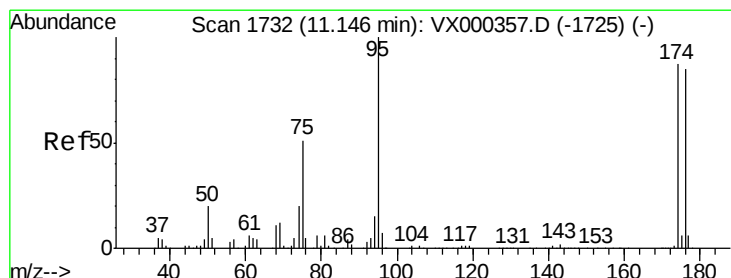
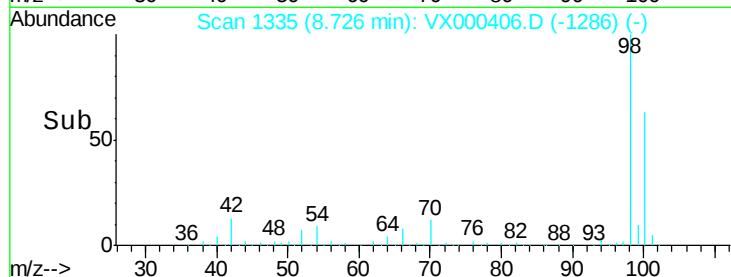
100000

50000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 39.51 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000406.D

Acq: 22 Mar 2018 15:13

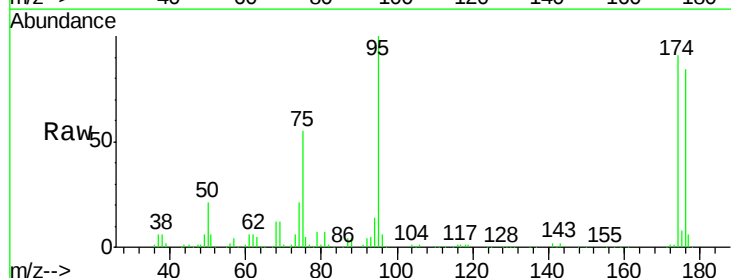
Tgt Ion: 95 Resp: 73797

Ion Ratio Lower Upper

95 100

174 89.6 0.0 173.6

176 84.4 0.0 164.6



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

80000

60000

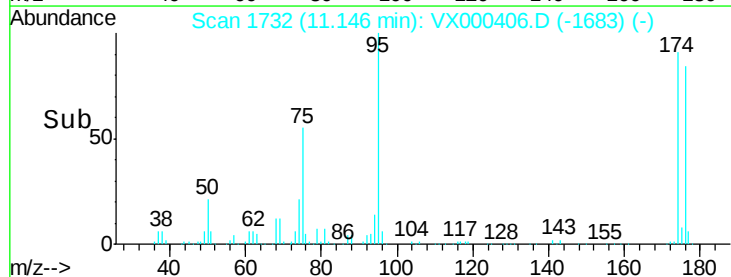
40000

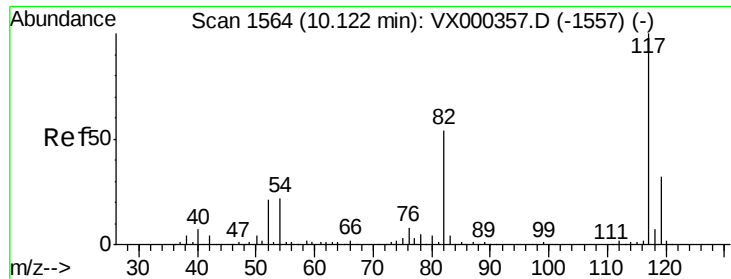
20000

0

11.10 11.20

Time-->

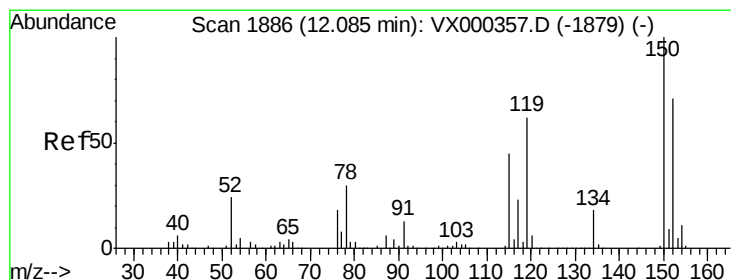
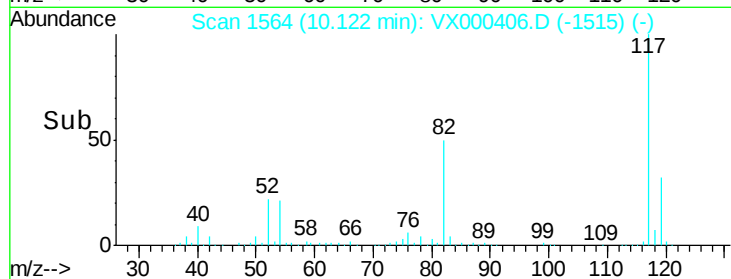
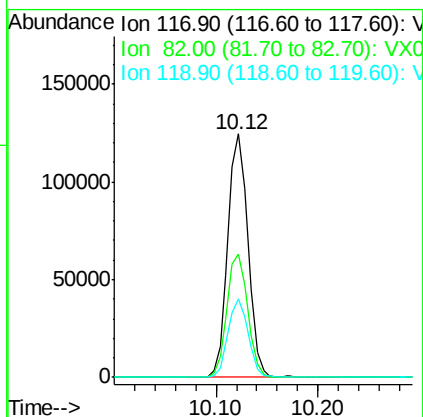
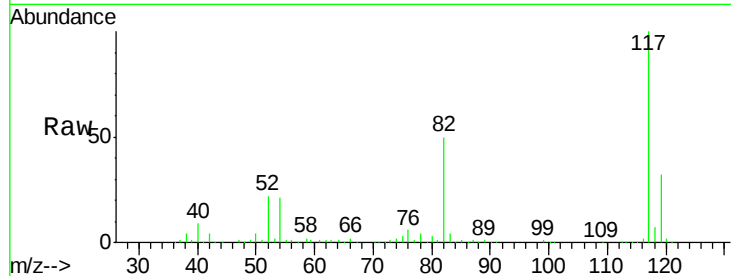




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000406.D  
Acq: 22 Mar 2018 15:13

Instrument :  
MSVOA\_X  
ClientSampleId :  
SUMP-031918

Tot Ion:117 Resp: 170025  
Ion Ratio Lower Upper  
117 100  
82 50.5 43.8 65.8  
119 32.0 24.9 37.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000406.D  
Acq: 22 Mar 2018 15:13

Tgt Ion:152 Resp: 79293  
Ion Ratio Lower Upper  
152 100  
115 56.5 39.8 119.3  
150 159.1 0.0 344.4

