

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\  
 Data File : VF061051.D  
 Acq On : 17 Dec 2018 20:20  
 Operator : VA/AP  
 Sample : J6391-14RE  
 Misc : 4.25g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 P001-SS017-1218-01RE

Quant Time: Dec 18 04:03:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.89  | 168  | 105598   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.62  | 114  | 168236   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.79  | 117  | 138021   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 59072    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.86  | 65   | 63513    | 51.06 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 102.12% |          |
| 35) Dibromofluoromethane    | 4.14  | 113  | 66138    | 49.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.10%  |          |
| 50) Toluene-d8              | 7.57  | 98   | 171514   | 43.63 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 87.26%  |          |
| 62) 4-Bromofluorobenzene    | 11.43 | 95   | 70955    | 39.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.42%  |          |

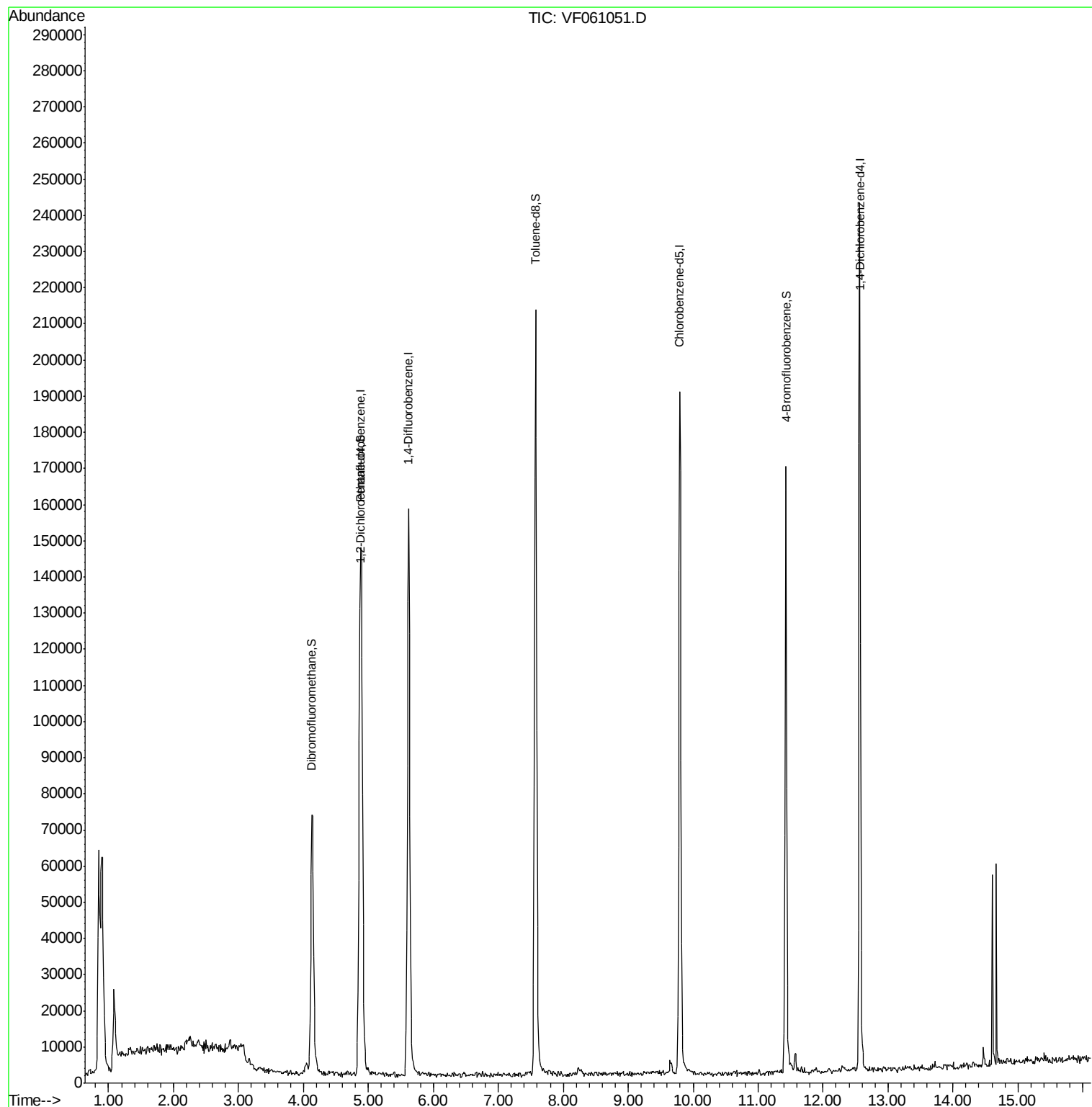
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

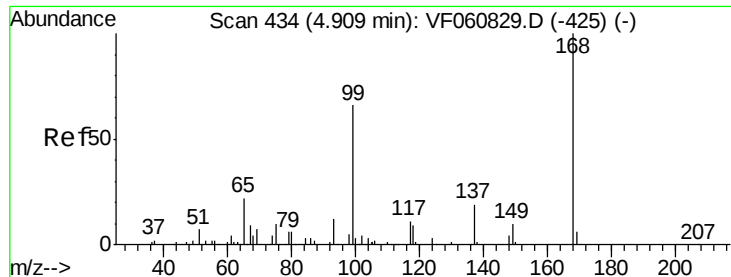
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121718\  
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Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF061051.D

Acq: 17 Dec 2018 20:20

Instrument :

MSVOA\_F

ClientSampleId :

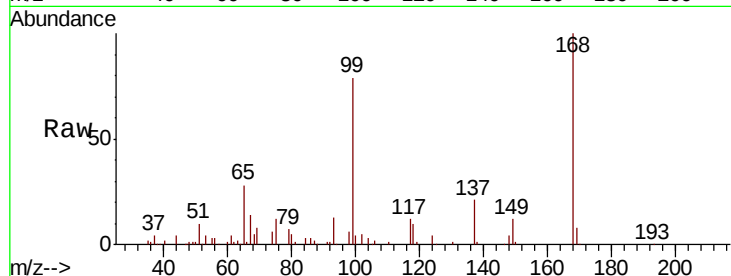
P001-SS017-1218-01RE

Tot Ion:168 Resp: 105598

Ion Ratio Lower Upper

168 100

99 78.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

30000

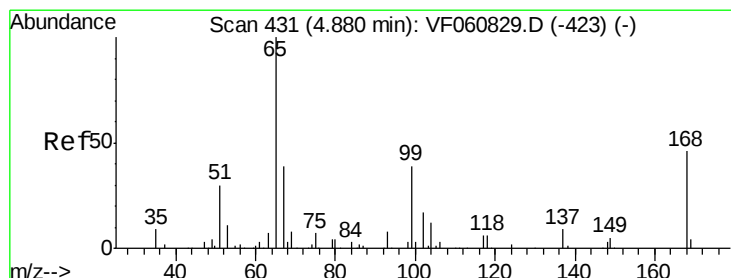
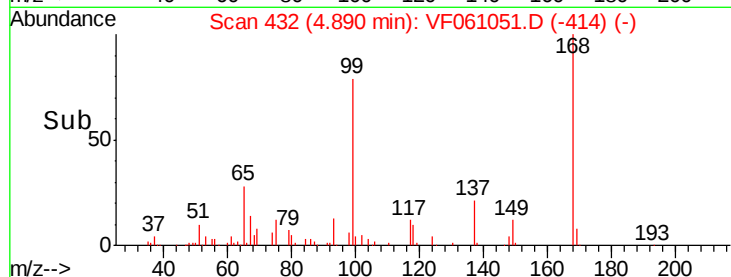
20000

10000

0

4.80 4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.056 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061051.D

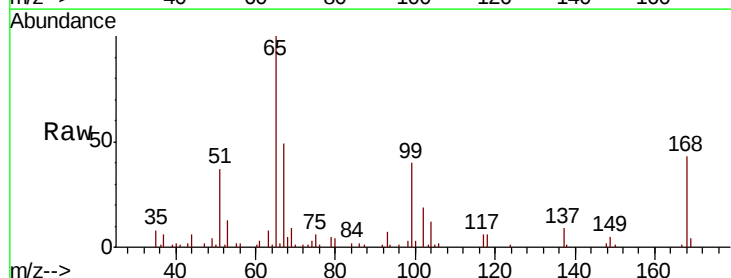
Acq: 17 Dec 2018 20:20

Tgt Ion: 65 Resp: 63513

Ion Ratio Lower Upper

65 100

67 48.5 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

20000

15000

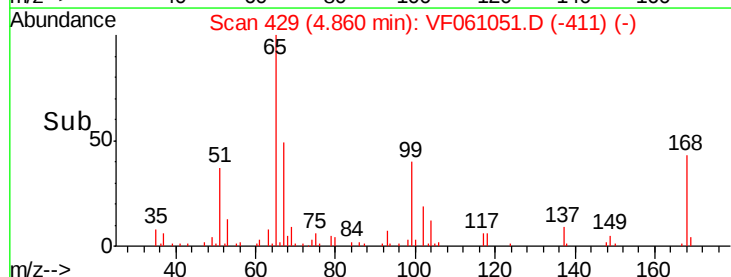
10000

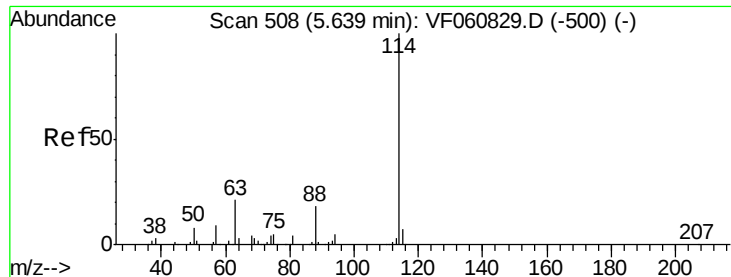
5000

0

4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF061051.D

Acq: 17 Dec 2018 20:20

Instrument :

MSVOA\_F

ClientSampleId :

P001-SS017-1218-01RE

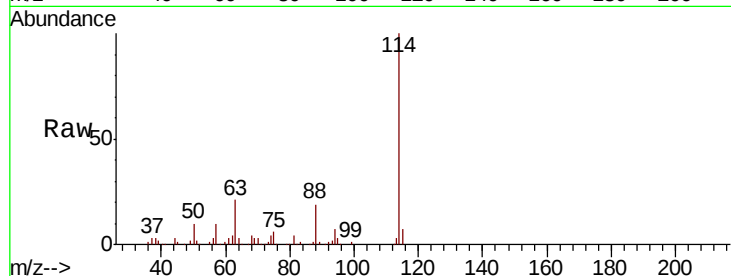
Tot Ion:114 Resp: 168236

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

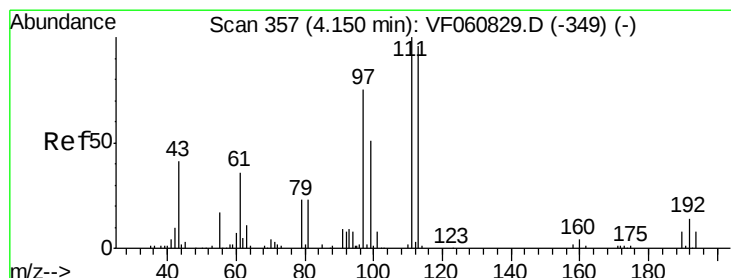
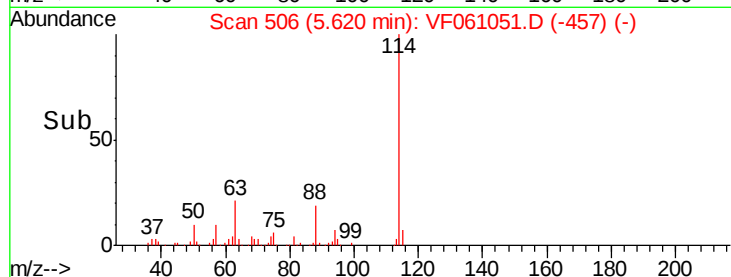
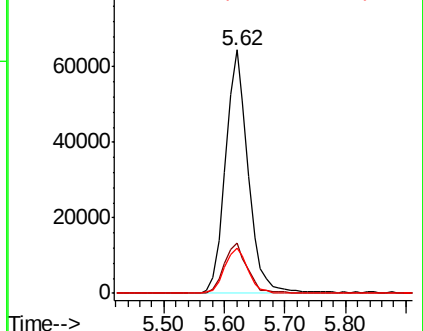
88 18.6 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 49.554 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF061051.D

Acq: 17 Dec 2018 20:20

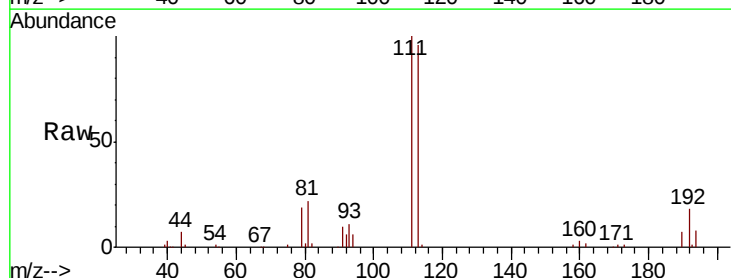
Tgt Ion:113 Resp: 66138

Ion Ratio Lower Upper

113 100

111 104.5 83.0 124.6

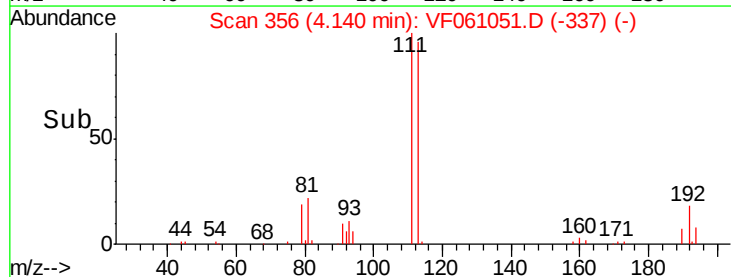
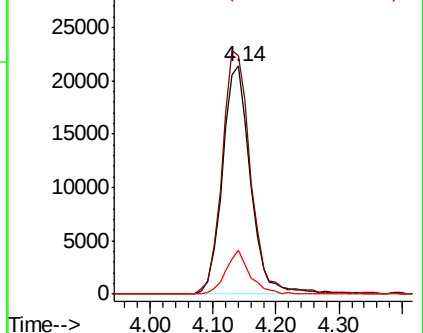
192 19.7 12.3 18.5#

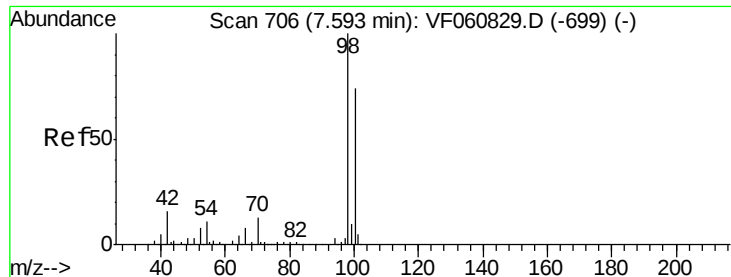


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 43.626 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF061051.D

Acq: 17 Dec 2018 20:20

Instrument :

MSVOA\_F

ClientSampleId :

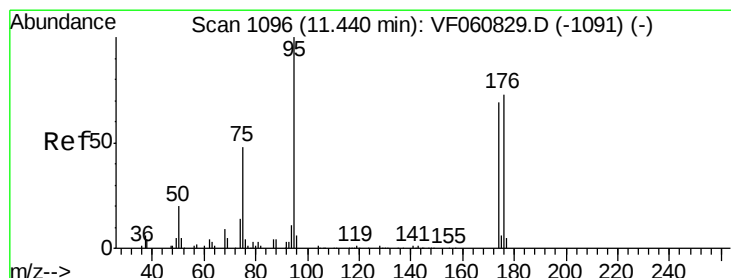
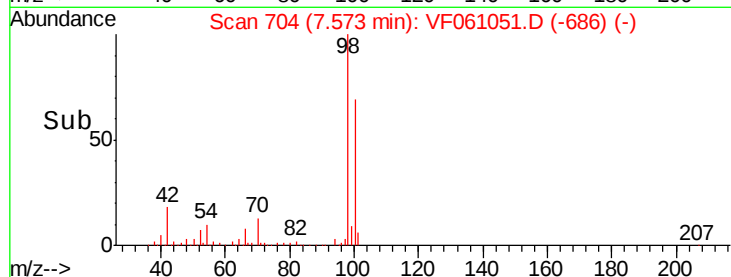
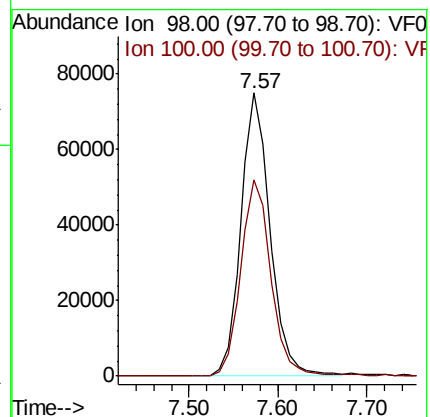
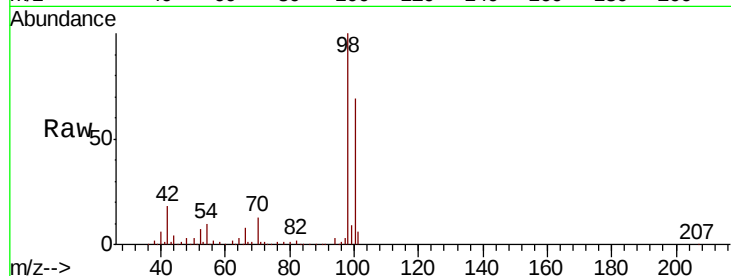
P001-SS017-1218-01RE

Tot Ion: 98 Resp: 171514

Ion Ratio Lower Upper

98 100

100 69.3 59.3 88.9



#62

4-Bromofluorobenzene

Concen: 39.710 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF061051.D

Acq: 17 Dec 2018 20:20

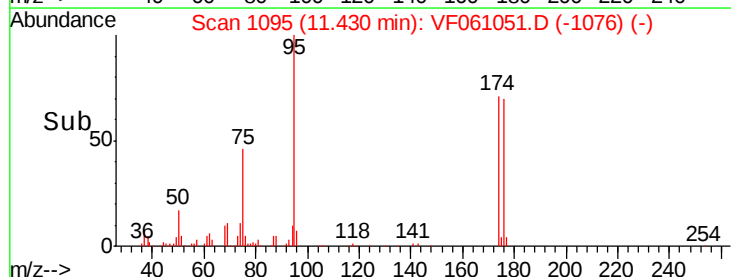
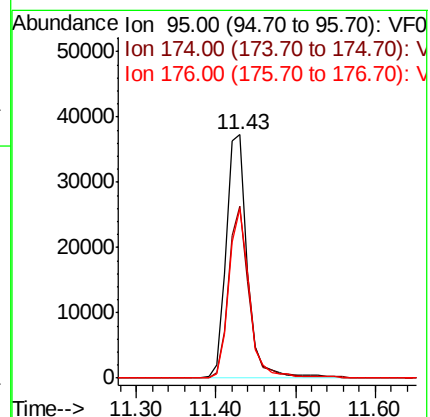
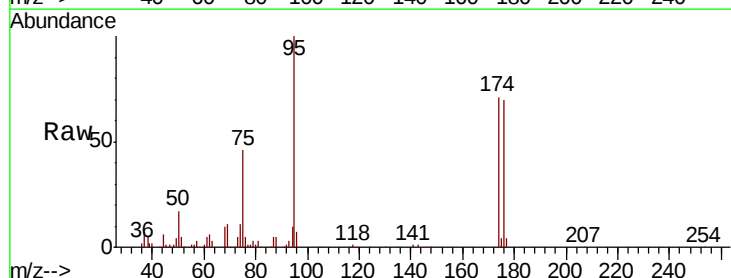
Tgt Ion: 95 Resp: 70955

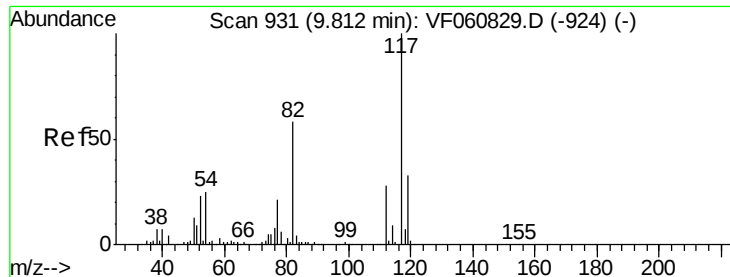
Ion Ratio Lower Upper

95 100

174 70.8 0.0 138.2

176 69.8 0.0 146.2

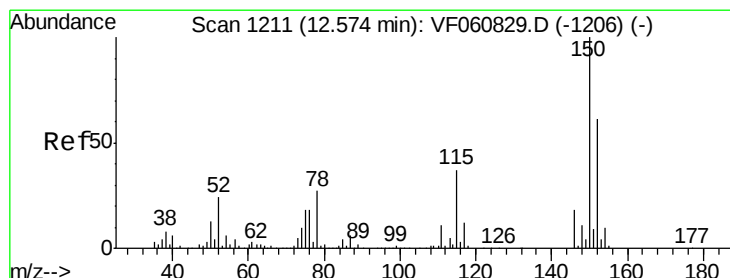
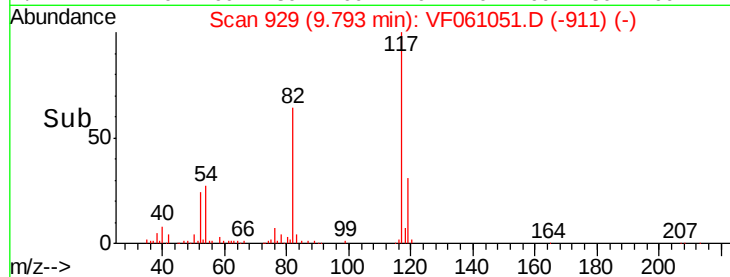
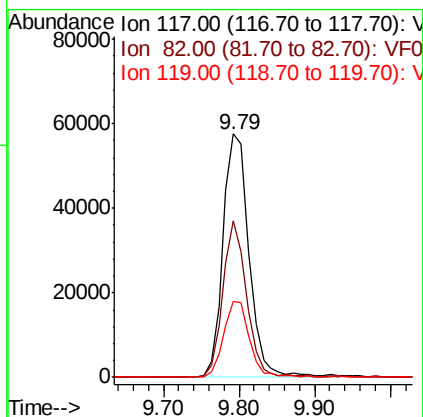
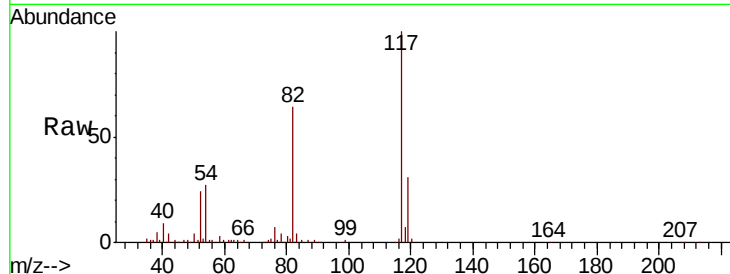




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.79 min Scan# 929  
Delta R.T. -0.02 min  
Lab File: VF061051.D  
Acq: 17 Dec 2018 20:20

Instrument :  
MSVOA\_F  
ClientSampleId :  
P001-SS017-1218-01RE

Tot Ion:117 Resp: 138021  
Ion Ratio Lower Upper  
117 100  
82 64.5 46.6 69.8  
119 31.2 26.4 39.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: VF061051.D  
Acq: 17 Dec 2018 20:20

Tgt Ion:152 Resp: 59072  
Ion Ratio Lower Upper  
152 100  
115 58.5 30.1 90.5  
150 149.7 0.0 327.6

