

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\  
 Data File : VF061433.D  
 Acq On : 17 Jan 2019 1:26  
 Operator : VA/AP  
 Sample : K1157-14  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 WC-07-011519

Quant Time: Jan 17 03:39:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 16 04:51:59 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 4.86  | 168  | 118894   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.59  | 114  | 196568   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.76  | 117  | 138584   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.54 | 152  | 40255    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 67462    | 45.96 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 91.92% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 76686    | 49.44 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.88% |          |
| 50) Toluene-d8              | 7.54  | 98   | 175086   | 41.20 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 82.40% |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 54060    | 27.23 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 54.46% |          |

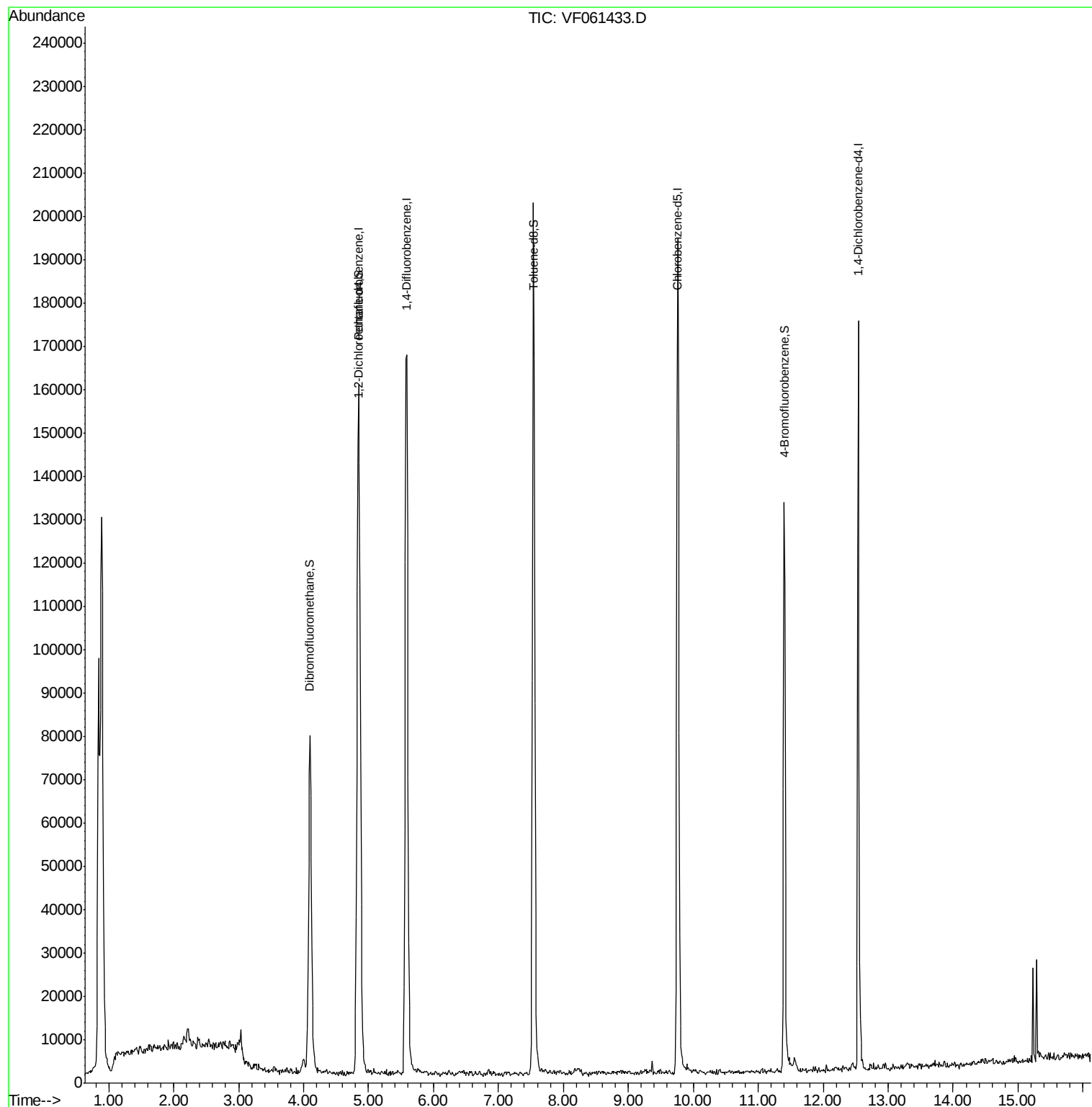
Target Compounds Qvalue

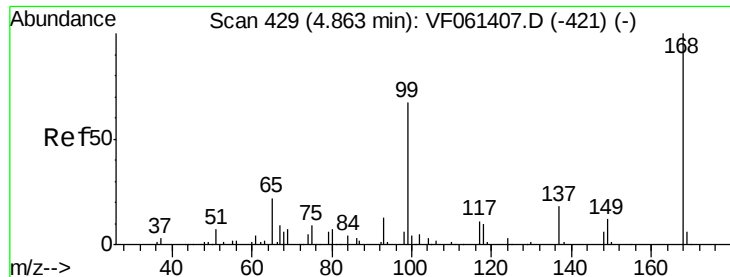
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011619\  
Data File : VF061433.D  
Acq On : 17 Jan 2019 1:26  
Operator : VA/AP  
Sample : K1157-14  
Misc : 5.00µ/5mL/MSVOA-F/SOIL  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
WC-07-011519

Quant Time: Jan 17 03:39:47 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jan 16 04:51:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061433.D

Acq: 17 Jan 2019 1:26

Instrument :

MSVOA\_F

ClientSampleId :

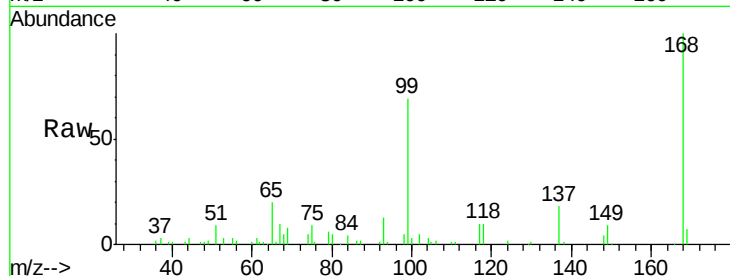
WC-07-011519

Tot Ion:168 Resp: 118894

Ion Ratio Lower Upper

168 100

99 68.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

40000

30000

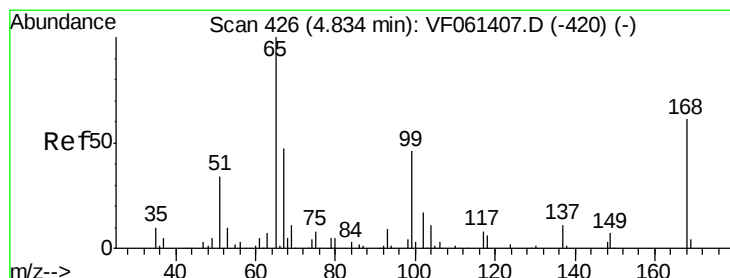
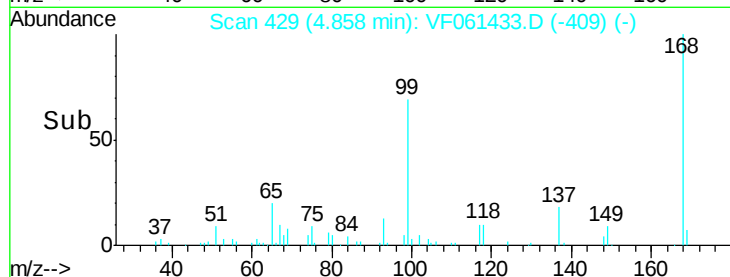
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#33

1,2-Dichloroethane-d4

Concen: 45.958 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061433.D

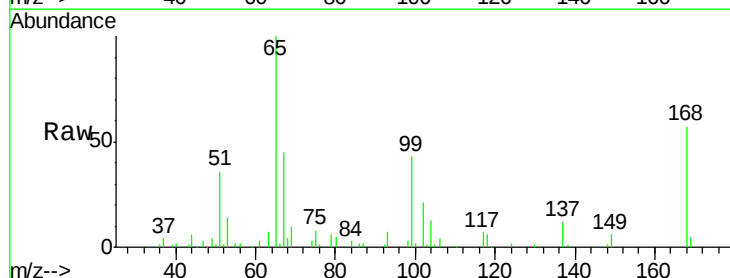
Acq: 17 Jan 2019 1:26

Tgt Ion: 65 Resp: 67462

Ion Ratio Lower Upper

65 100

67 44.9 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.83

25000

20000

15000

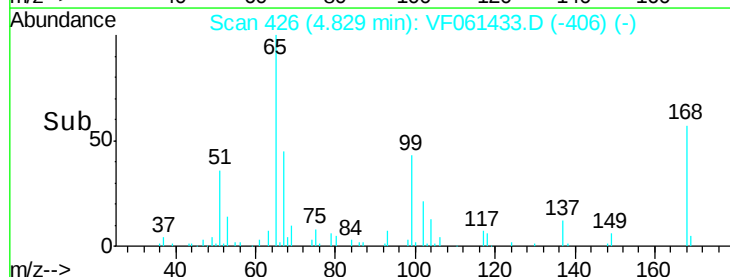
10000

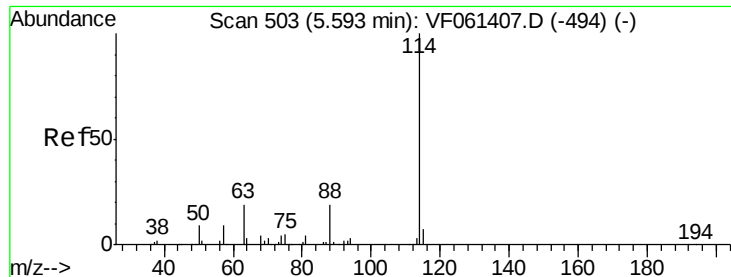
5000

0

4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061433.D

Acq: 17 Jan 2019 1:26

Instrument :

MSVOA\_F

ClientSampleId :

WC-07-011519

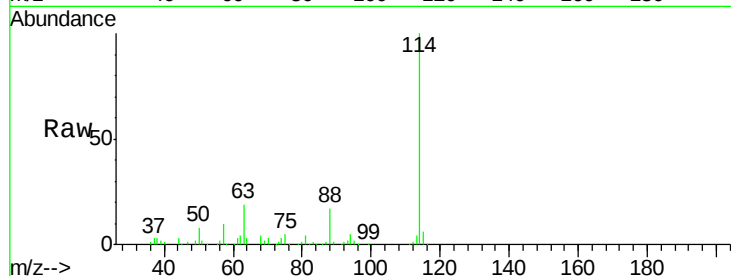
Tot Ion:114 Resp: 196568

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.0

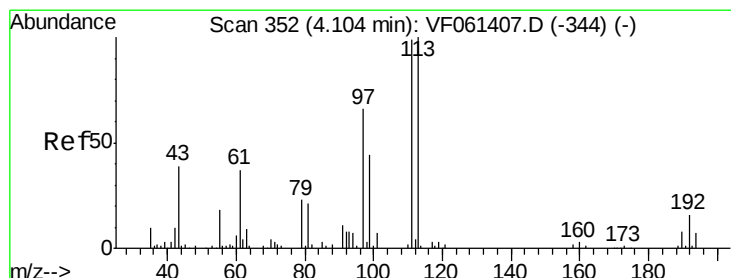
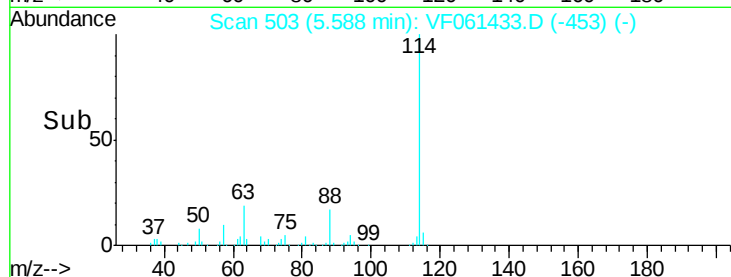
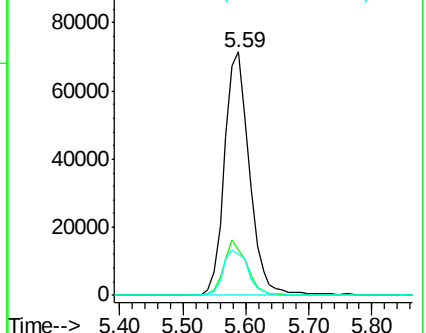
88 17.0 0.0 37.4



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: 49.440 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061433.D

Acq: 17 Jan 2019 1:26

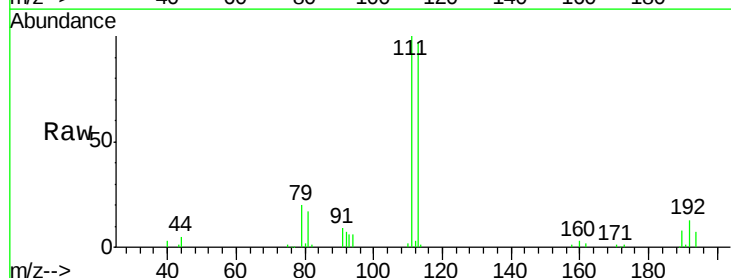
Tgt Ion:113 Resp: 76686

Ion Ratio Lower Upper

113 100

111 102.9 79.4 119.0

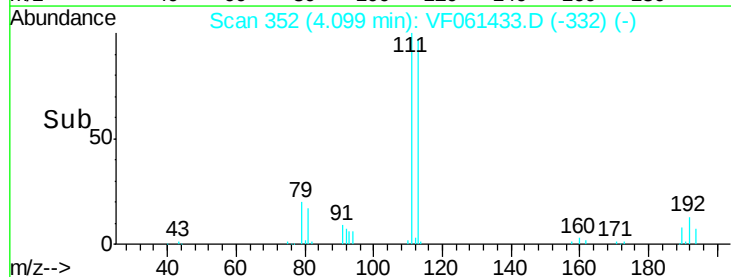
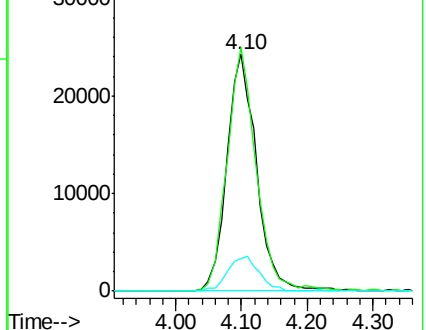
192 13.7 12.4 18.6

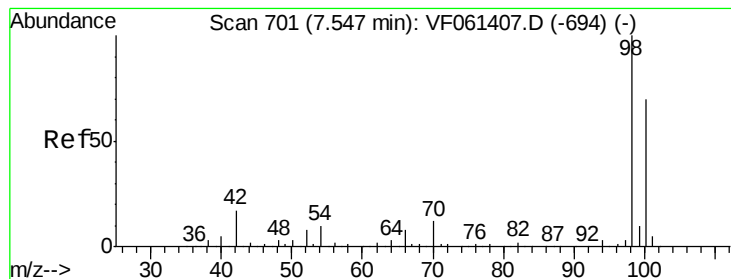


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 41.200 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF061433.D

Acq: 17 Jan 2019 1:26

Instrument :

MSVOA\_F

ClientSampleId :

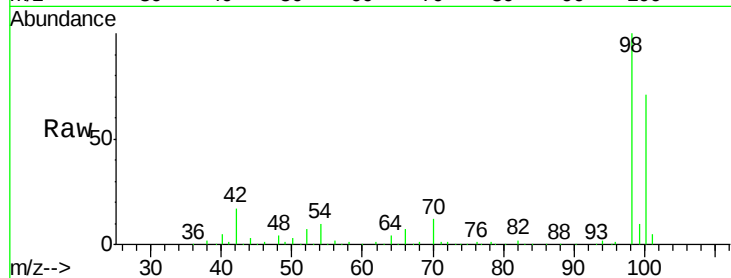
WC-07-011519

Tot Ion: 98 Resp: 175086

Ion Ratio Lower Upper

98 100

100 70.7 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.54

80000

60000

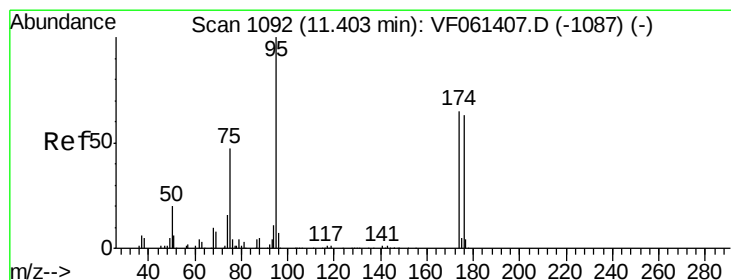
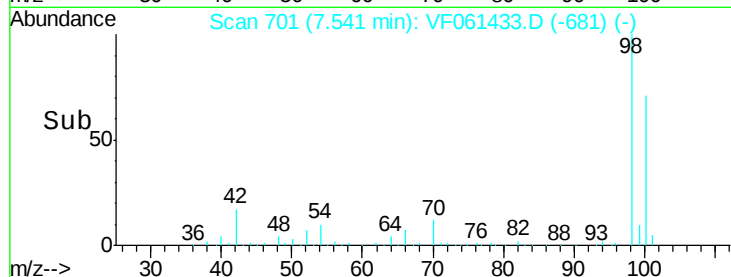
40000

20000

0

Time-->

7.40 7.50 7.60 7.70



#62

4-Bromofluorobenzene

Concen: 27.226 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061433.D

Acq: 17 Jan 2019 1:26

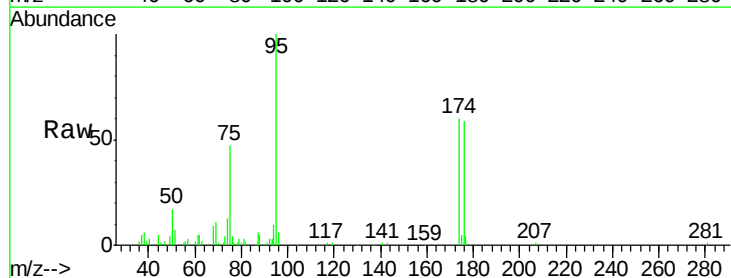
Tgt Ion: 95 Resp: 54060

Ion Ratio Lower Upper

95 100

174 59.6 0.0 130.4

176 59.3 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

40000

30000

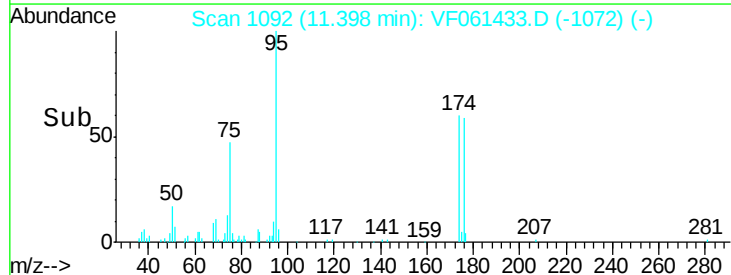
20000

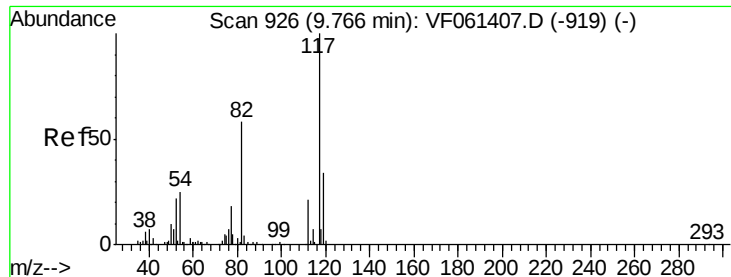
10000

0

Time-->

11.30 11.40 11.50 11.60

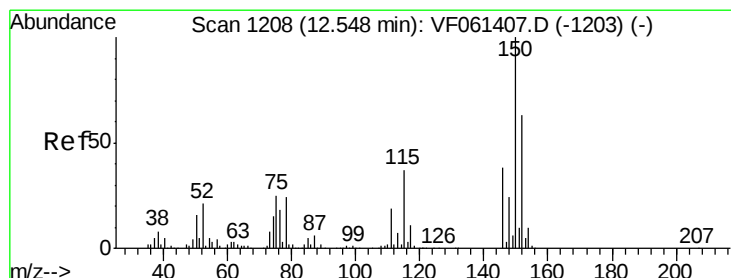
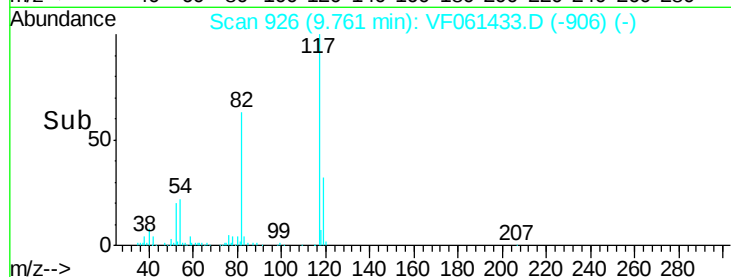
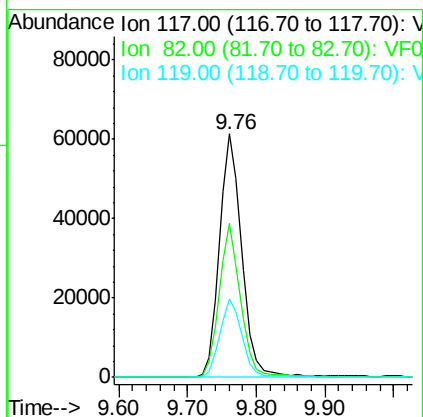
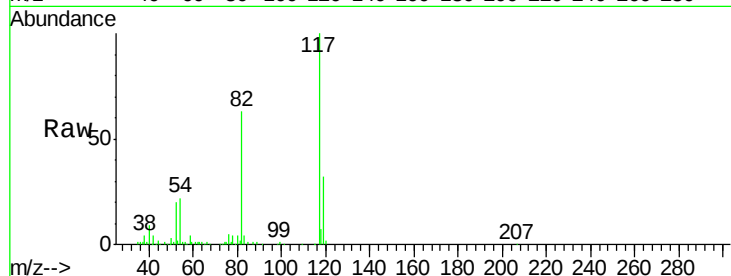




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: VF061433.D  
Acq: 17 Jan 2019 1:26

Instrument :  
MSVOA\_F  
ClientSampleId :  
WC-07-011519

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.2  | 46.4  | 69.6  |
| 119     | 32.2  | 27.2  | 40.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: VF061433.D  
Acq: 17 Jan 2019 1:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 63.8  | 30.0  | 90.0  |
| 150     | 157.1 | 0.0   | 321.4 |

