

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082918\  
 Data File : VF060184.D  
 Acq On : 29 Aug 2018 9:12  
 Operator : VA/AP  
 Sample : J4277-11  
 Misc : 5.94g/5mL/MSVOA F/SOIL  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OR-01-082718-B

Quant Time: Aug 29 11:03:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F082918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 29 03:22:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 27048    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 28664    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 12958    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 3393     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.00  | 65   | 6364       | 37.67  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 75.34% |       |          |
| 35) Dibromofluoromethane    | 4.29  | 113  | 8354       | 45.30  | ug/l  | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery = | 90.60% |       |          |
| 50) Toluene-d8              | 7.71  | 98   | 14488      | 22.97  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 45.94% |       |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 4423       | 19.01  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 38.02% |       |          |

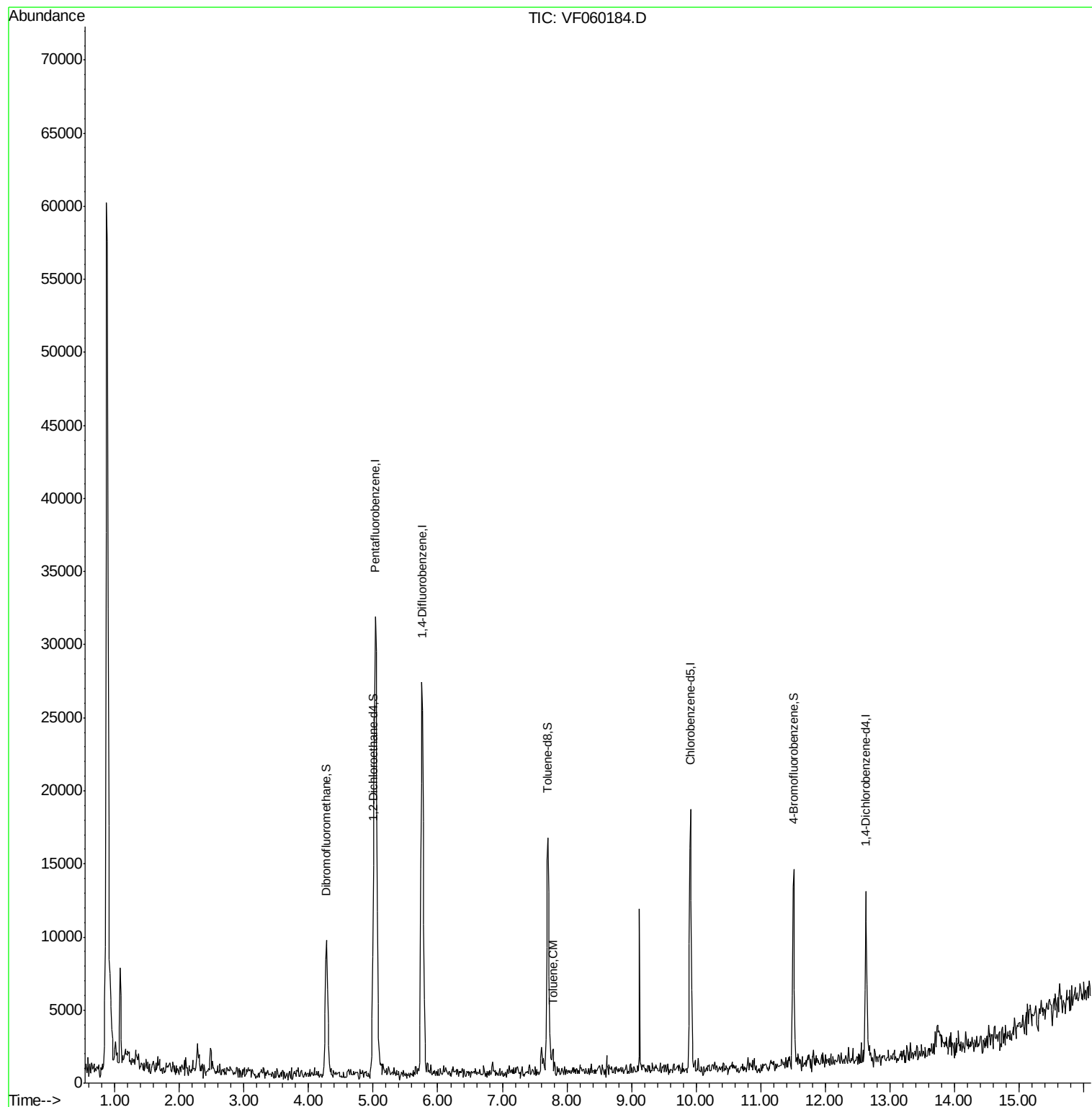
| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------|------|------|----------|------|-------|--------|
| 52) Toluene      | 7.78 | 92   | 473      | 1.14 | ug/l  | 100    |

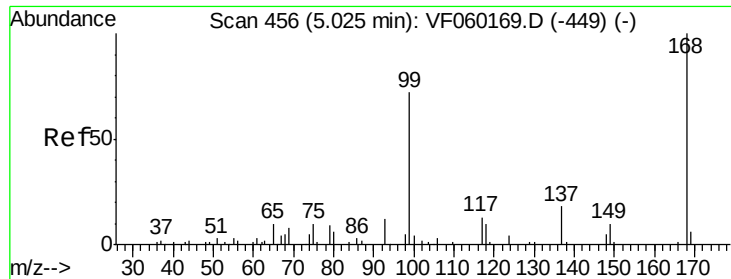
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082918\  
Data File : VF060184.D  
Acq On : 29 Aug 2018 9:12  
Operator : VA/AP  
Sample : J4277-11  
Misc : 5.94q/5mL/MSVOA F/SOIL  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-01-082718-B

Quant Time: Aug 29 11:03:49 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082918S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 29 03:22:03 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA\_F

ClientSampleId :

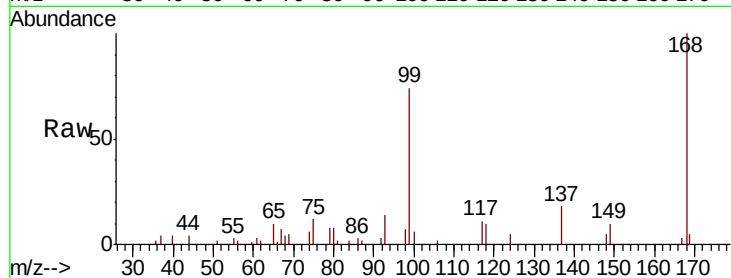
OR-01-082718-B

Tot Ion:168 Resp: 27048

Ion Ratio Lower Upper

168 100

99 73.8 57.9 86.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

8000

6000

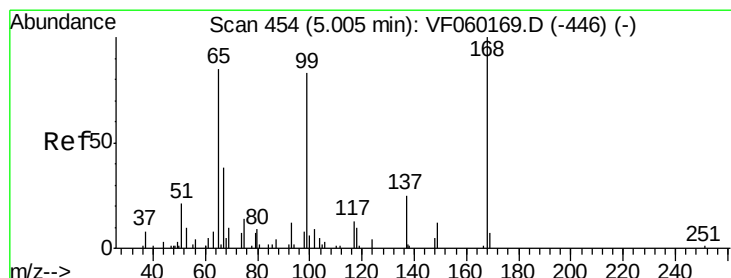
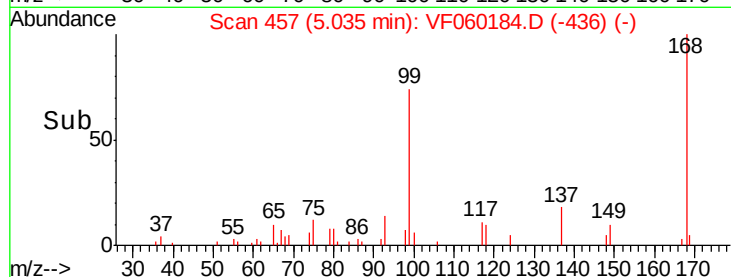
4000

2000

0

Time-->

4.90 5.00 5.10 5.20



#33

1,2-Dichloroethane-d4

Concen: 37.67 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF060184.D

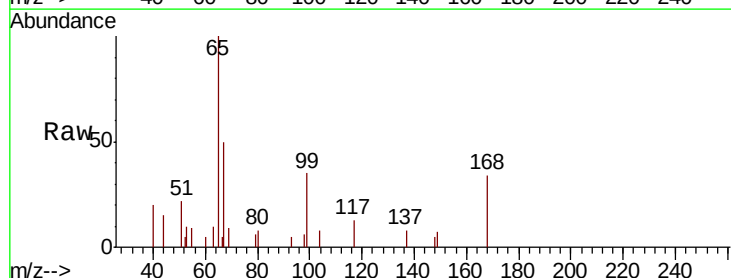
Acq: 29 Aug 2018 9:12

Tgt Ion: 65 Resp: 6364

Ion Ratio Lower Upper

65 100

67 50.2 0.0 92.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

2500

2000

1500

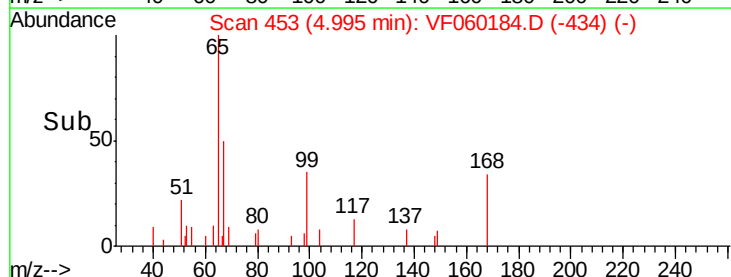
1000

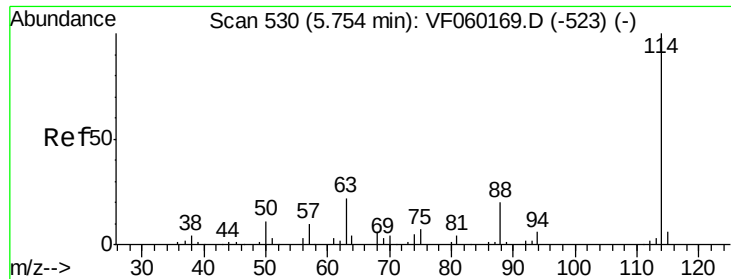
500

0

Time-->

4.90 5.00 5.10

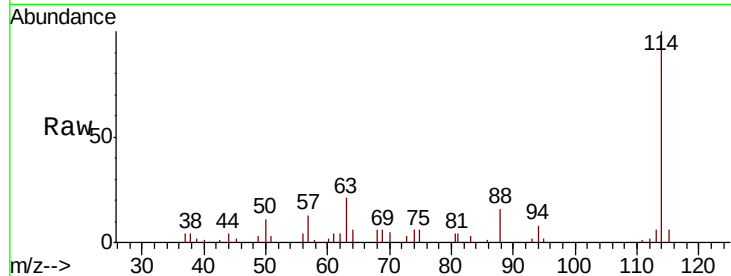




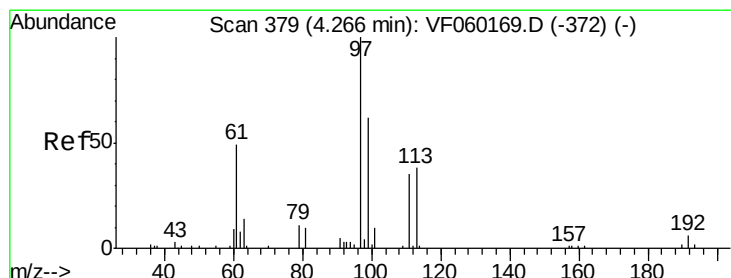
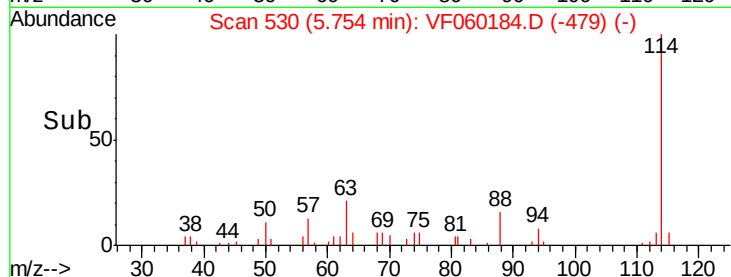
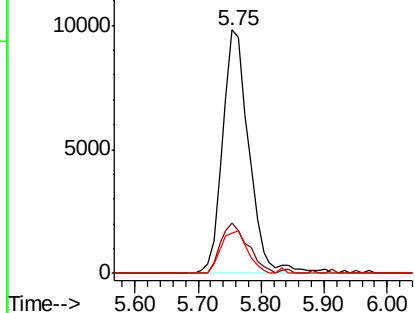
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.75 min Scan# 530  
 Delta R.T. -0.00 min  
 Lab File: VF060184.D  
 Acq: 29 Aug 2018 9:12

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OR-01-082718-B

|             |       |       |
|-------------|-------|-------|
| Tot Ion:114 | Resp: | 28664 |
| Ion Ratio   | Lower | Upper |
| 114 100     |       |       |
| 63 20.6     | 0.0   | 45.8  |
| 88 16.5     | 0.0   | 40.2  |

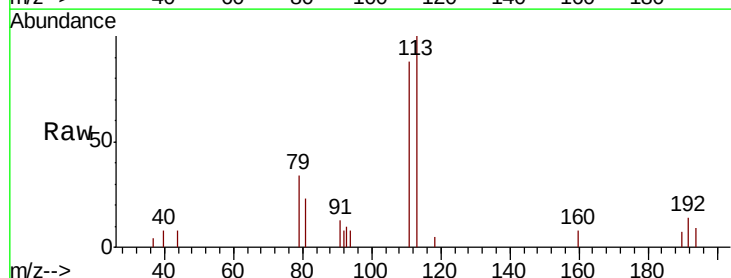


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VF0  
 Ion 88.00 (87.70 to 88.70): VF0

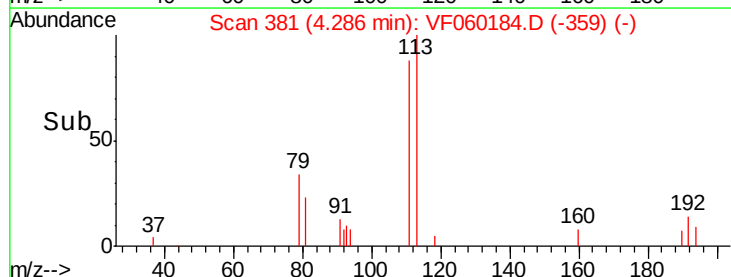
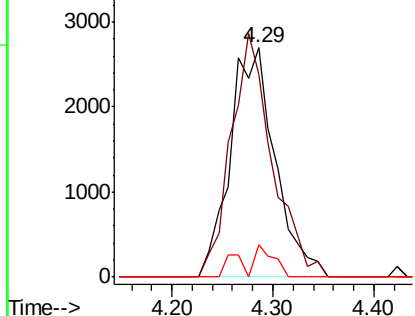


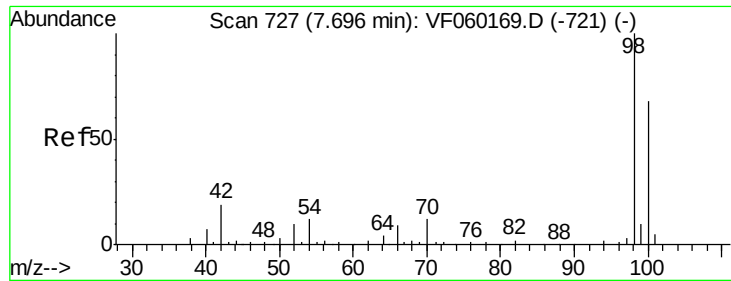
#35  
 Dibromofluoromethane  
 Concen: 45.30 ug/l  
 RT: 4.29 min Scan# 381  
 Delta R.T. 0.02 min  
 Lab File: VF060184.D  
 Acq: 29 Aug 2018 9:12

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:113 | Resp: | 8354  |
| Ion Ratio   | Lower | Upper |
| 113 100     |       |       |
| 111 88.4    | 75.5  | 113.3 |
| 192 14.1    | 12.5  | 18.7  |



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

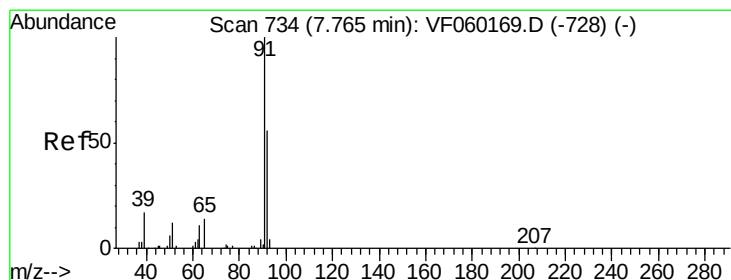
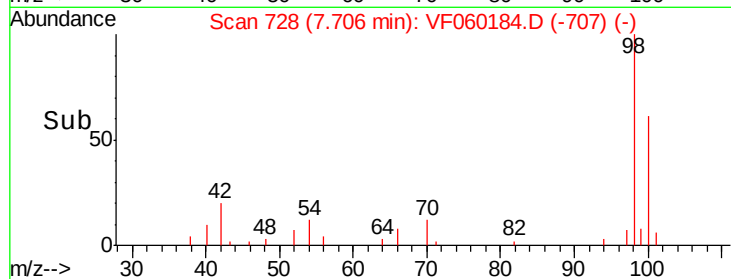
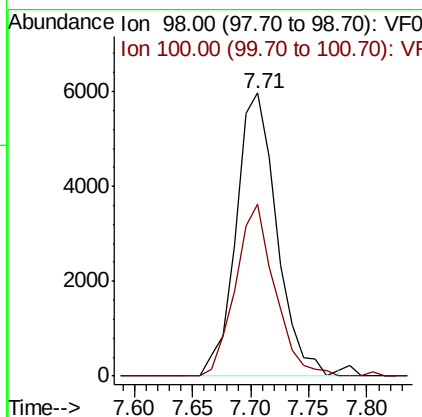
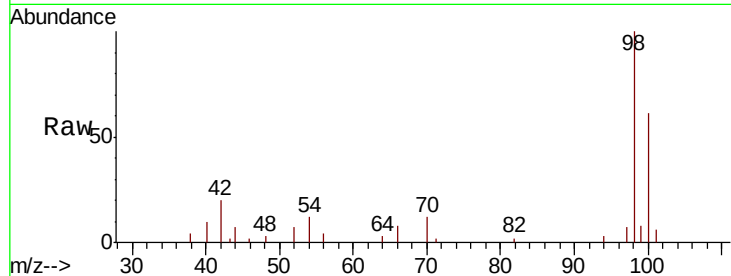




#50  
Toluene-d8  
Concen: 22.97 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.01 min  
Lab File: VF060184.D  
Acq: 29 Aug 2018 9:12

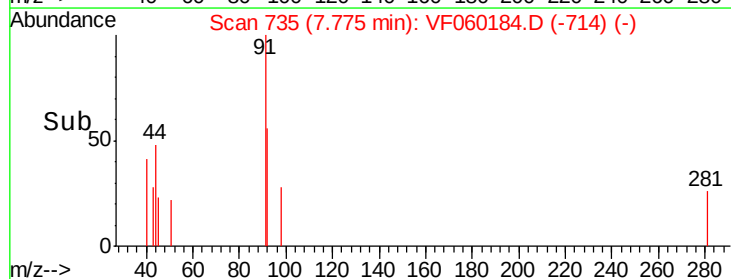
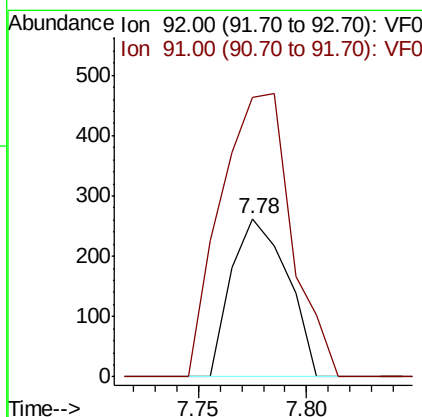
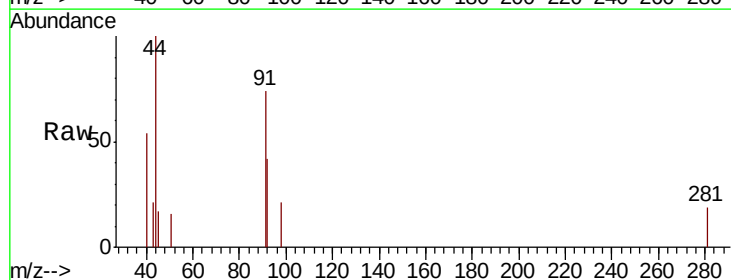
Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-01-082718-B

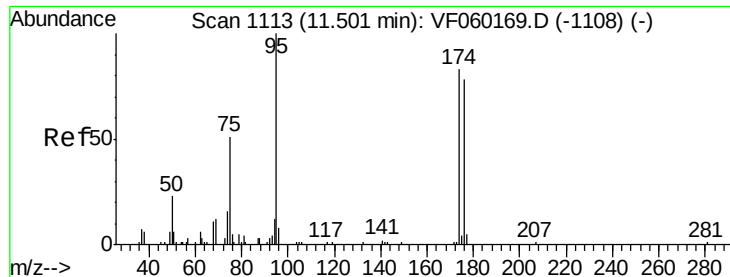
Tot Ion: 98 Resp: 14488  
Ion Ratio Lower Upper  
98 100  
100 60.9 54.5 81.7



#52  
Toluene  
Concen: 1.14 ug/l  
RT: 7.78 min Scan# 735  
Delta R.T. 0.01 min  
Lab File: VF060184.D  
Acq: 29 Aug 2018 9:12

Tgt Ion: 92 Resp: 473  
Ion Ratio Lower Upper  
92 100  
91 177.1 141.9 212.9





#62

4-Bromofluorobenzene

Concen: 19.01 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA\_F

ClientSampleId :

OR-01-082718-B

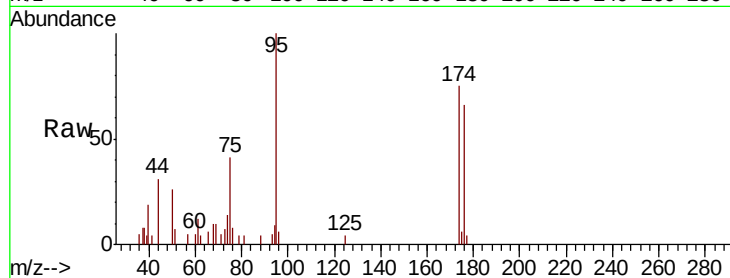
Tot Ion: 95 Resp: 4423

Ion Ratio Lower Upper

95 100

174 75.5 0.0 165.2

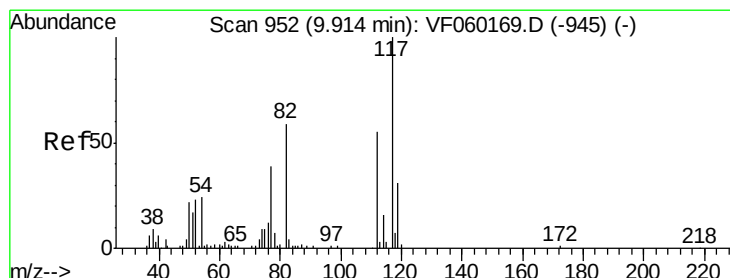
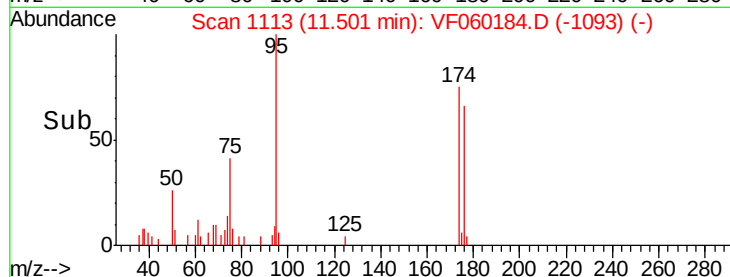
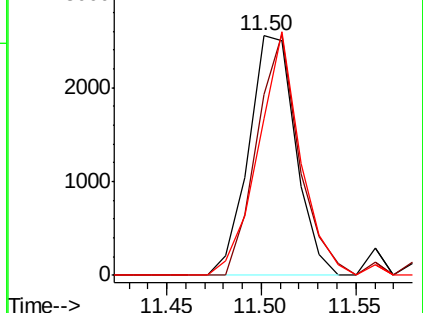
176 65.6 0.0 156.6



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

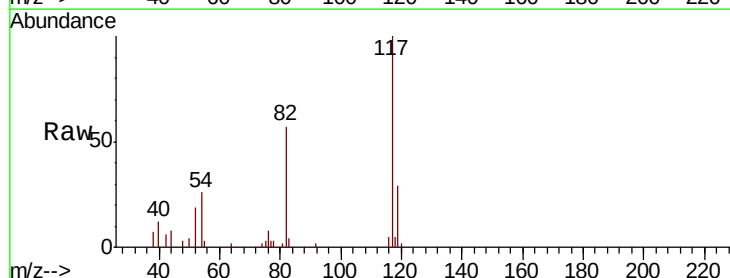
Tgt Ion: 117 Resp: 12958

Ion Ratio Lower Upper

117 100

82 57.3 47.2 70.8

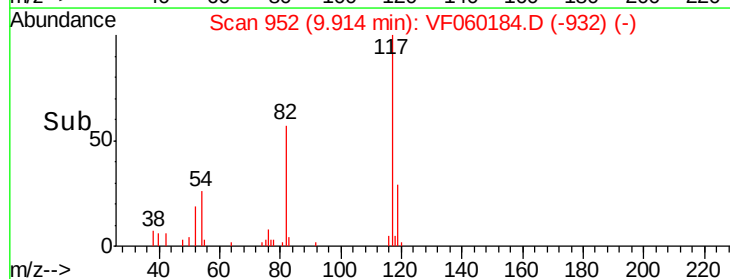
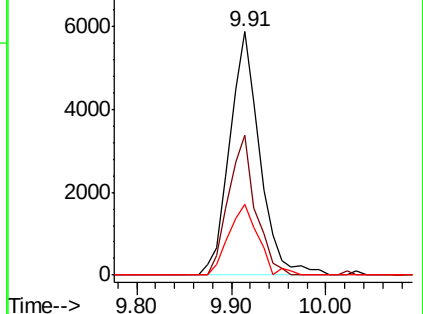
119 28.8 25.0 37.4

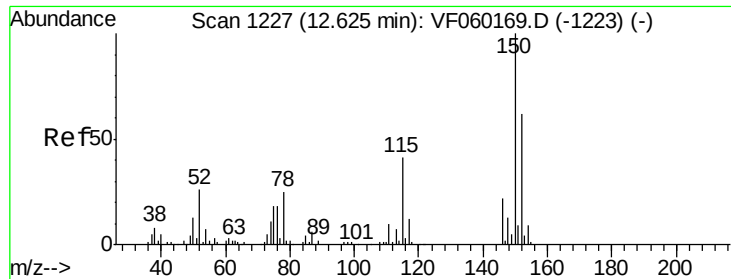


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF060184.D

Acq: 29 Aug 2018 9:12

Instrument :

MSVOA\_F

ClientSampleId :

OR-01-082718-B

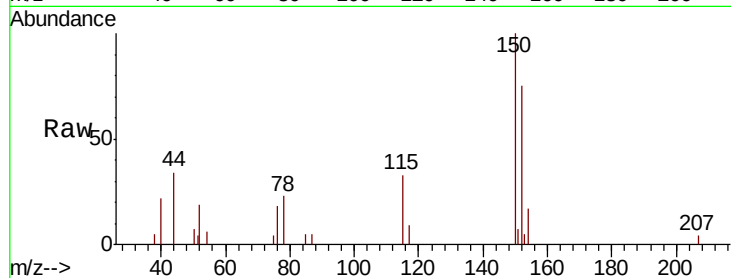
Tot Ion:152 Resp: 3393

Ion Ratio Lower Upper

152 100

115 43.9 33.2 99.6

150 134.1 0.0 325.6



Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

