

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082918\  
 Data File : VF060187.D  
 Acq On : 29 Aug 2018 10:35  
 Operator : VA/AP  
 Sample : J4280-03RE  
 Misc : 5.66g/5mL/MSVOA F/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-05-082418-BRE

Quant Time: Aug 29 11:14:39 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  | 59264    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 70201    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 50351    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 17119    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 17200    | 46.47 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.94% |      |
| 35) Dibromofluoromethane    | 4.27   | 113 | 21391    | 47.37 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 94.74% |      |
| 50) Toluene-d8              | 7.70   | 98  | 67675    | 43.81 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.62% |      |
| 62) 4-Bromofluorobenzene    | 11.51  | 95  | 17669    | 31.01 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 62.02% |      |

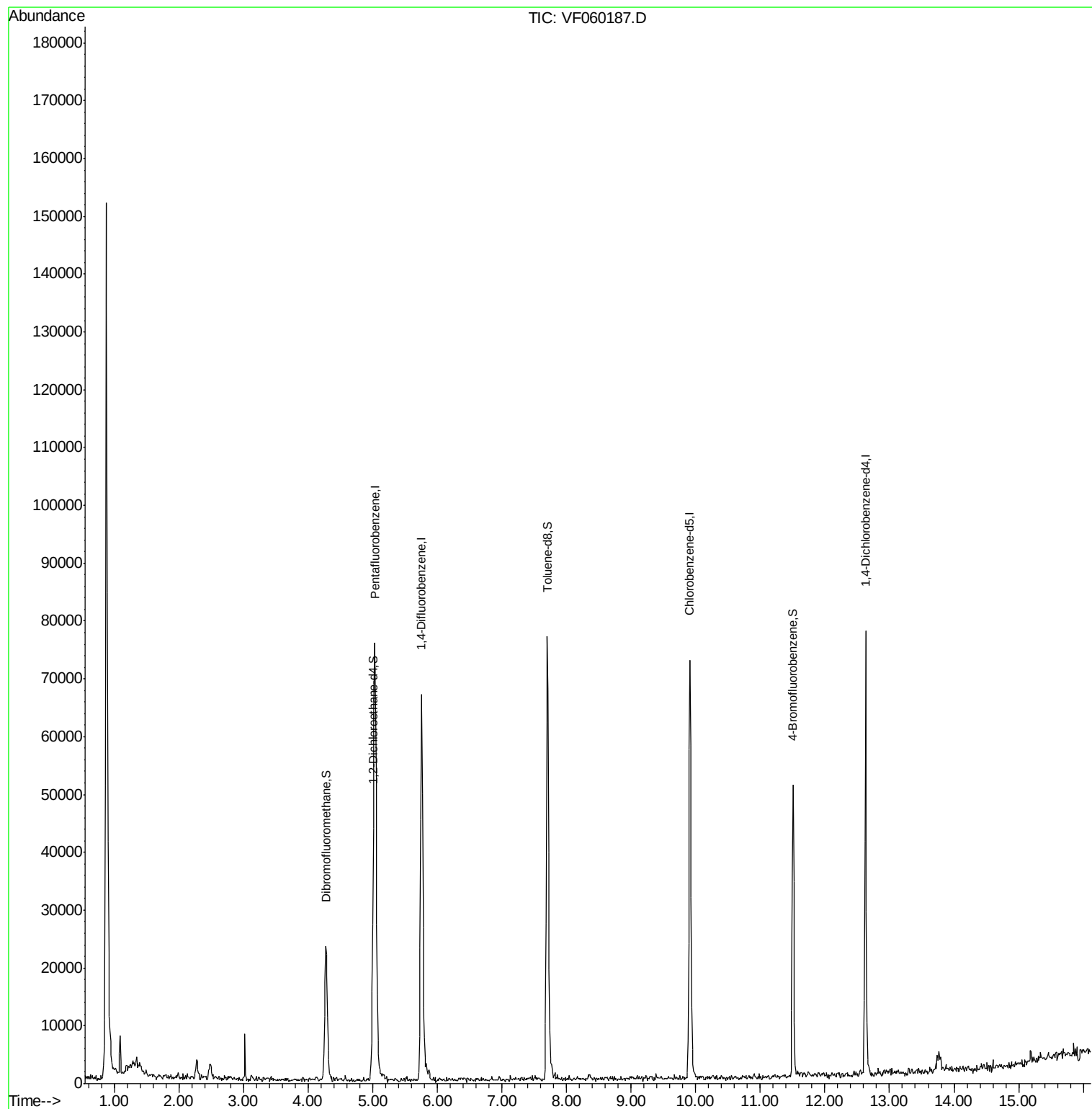
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

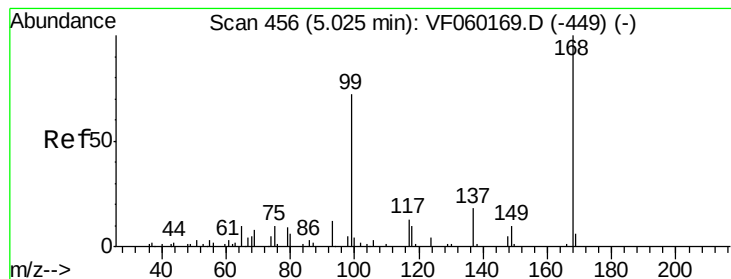
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_F  
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PL-05-082418-BRE

Quant Time: Aug 29 11:14:39 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# 456

Delta R.T. 0.01 min

Lab File: VF060187.D

Acq: 29 Aug 2018 10:35

Instrument :

MSVOA\_F

ClientSampleId :

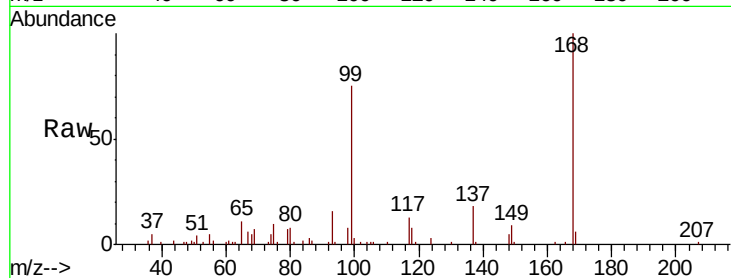
PL-05-082418-BRE

Tot Ion:168 Resp: 59264

Ion Ratio Lower Upper

168 100

99 75.2 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

20000

15000

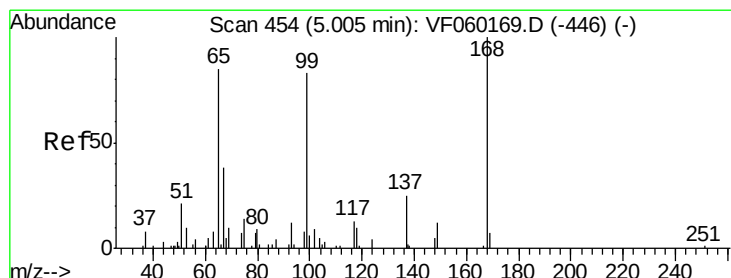
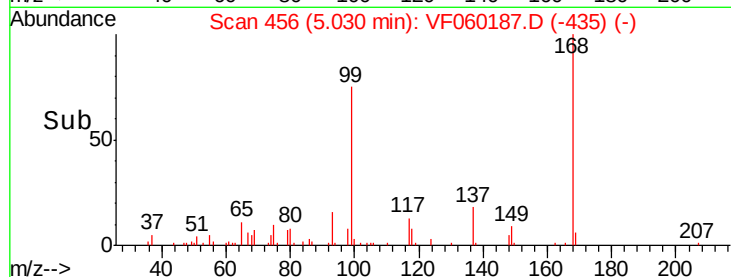
10000

5000

0

Time-->

4.90 5.00 5.10 5.20



#33

1,2-Dichloroethane-d4

Concen: 46.47 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.00 min

Lab File: VF060187.D

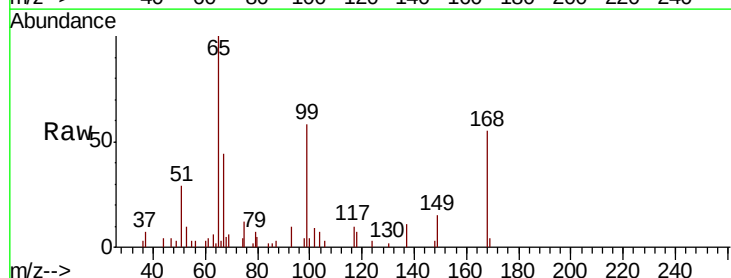
Acq: 29 Aug 2018 10:35

Tgt Ion: 65 Resp: 17200

Ion Ratio Lower Upper

65 100

67 43.9 0.0 92.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.00

6000

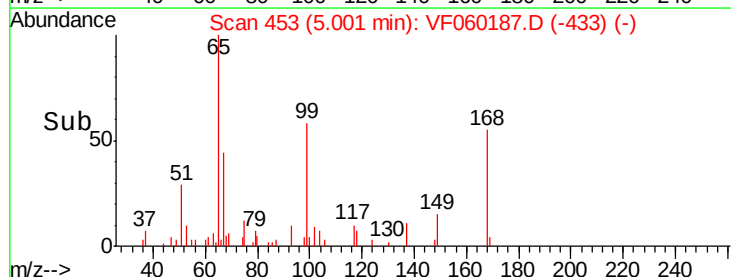
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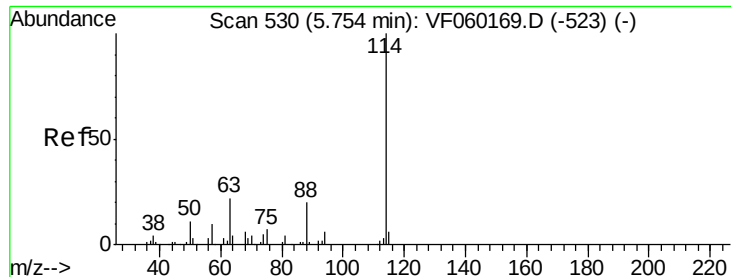
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0

Time-->

4.90 5.00 5.10 5.20

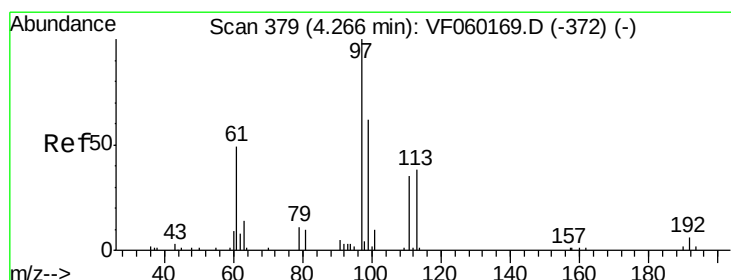
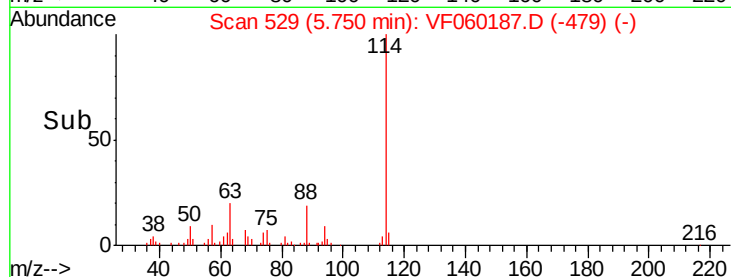
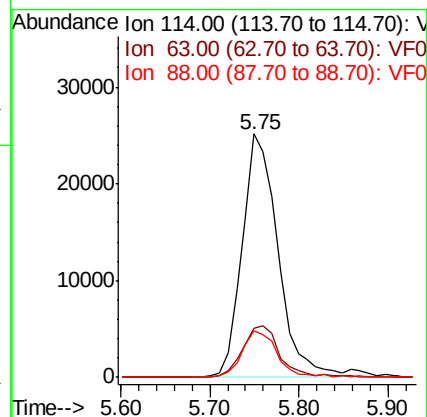
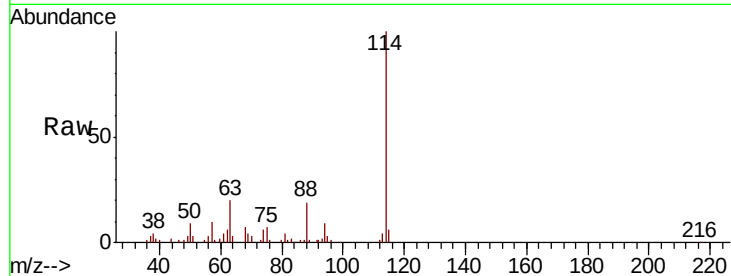




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.75 min Scan# 529  
 Delta R.T. -0.00 min  
 Lab File: VF060187.D  
 Acq: 29 Aug 2018 10:35

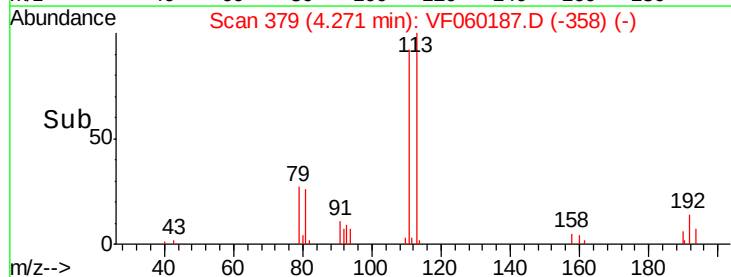
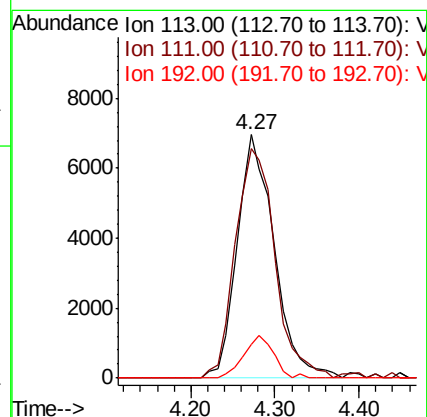
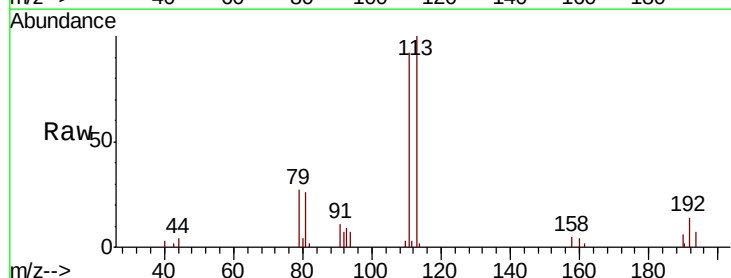
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 PL-05-082418-BRE

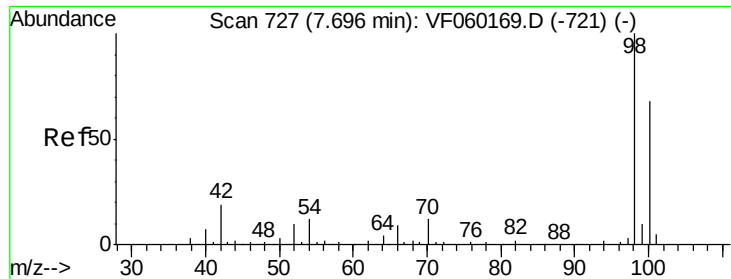
Tot Ion:114 Resp: 70201  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 45.8  
 88 19.3 0.0 40.2



#35  
 Dibromofluoromethane  
 Concen: 47.37 ug/l  
 RT: 4.27 min Scan# 379  
 Delta R.T. 0.01 min  
 Lab File: VF060187.D  
 Acq: 29 Aug 2018 10:35

Tgt Ion:113 Resp: 21391  
 Ion Ratio Lower Upper  
 113 100  
 111 94.3 75.5 113.3  
 192 14.1 12.5 18.7

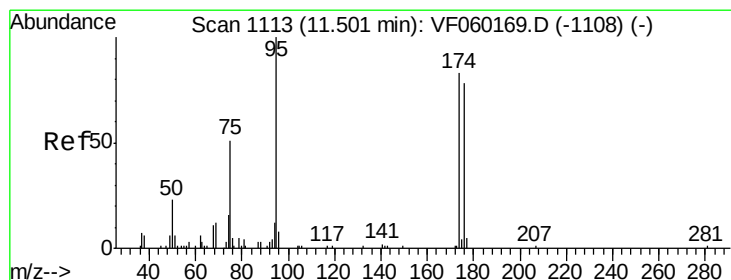
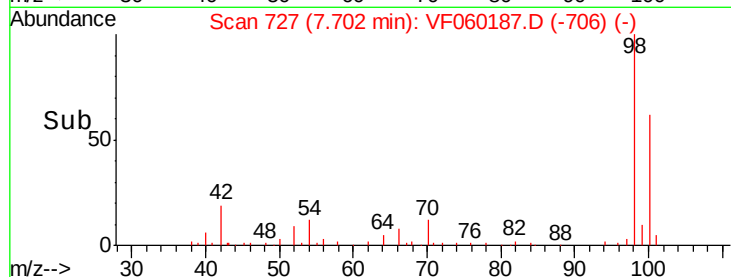
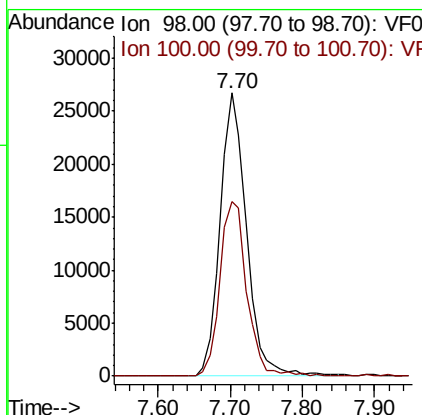
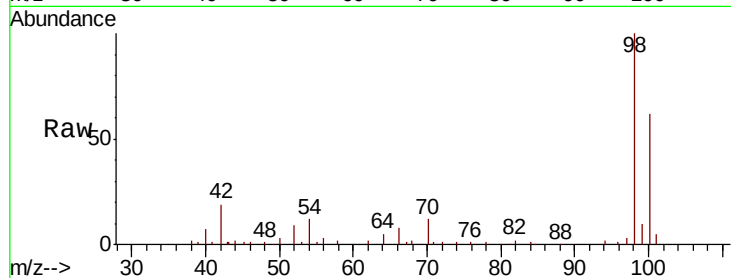




#50  
Toluene-d8  
Concen: 43.81 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. 0.01 min  
Lab File: VF060187.D  
Acq: 29 Aug 2018 10:35

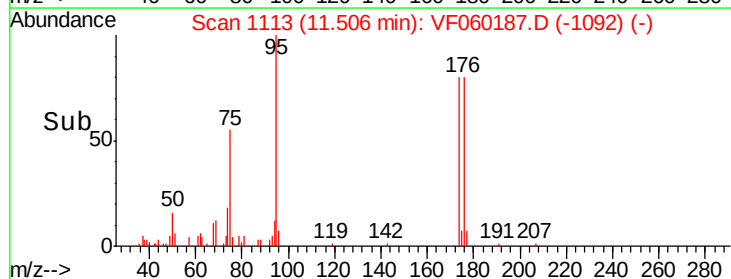
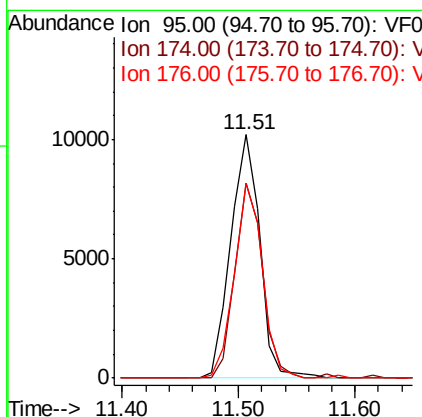
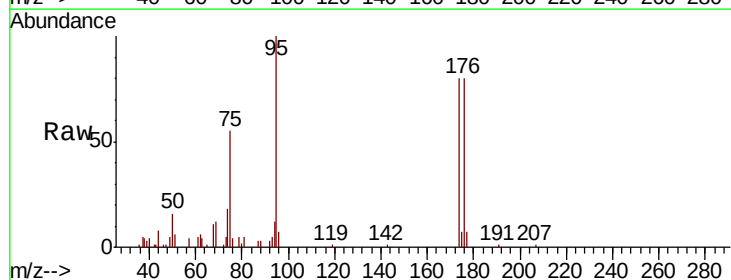
Instrument :  
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PL-05-082418-BRE

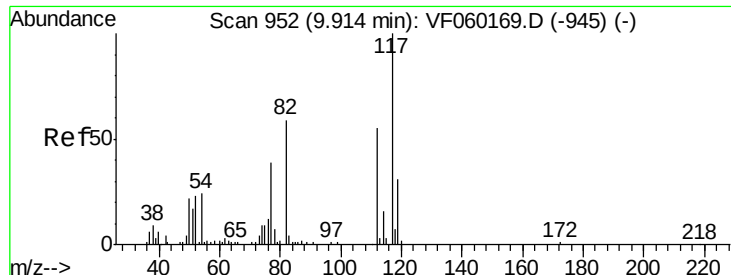
Tot Ion: 98 Resp: 67675  
Ion Ratio Lower Upper  
98 100  
100 61.9 54.5 81.7



#62  
4-Bromofluorobenzene  
Concen: 31.01 ug/l  
RT: 11.51 min Scan# 1113  
Delta R.T. 0.01 min  
Lab File: VF060187.D  
Acq: 29 Aug 2018 10:35

Tgt Ion: 95 Resp: 17669  
Ion Ratio Lower Upper  
95 100  
174 80.2 0.0 165.2  
176 80.2 0.0 156.6

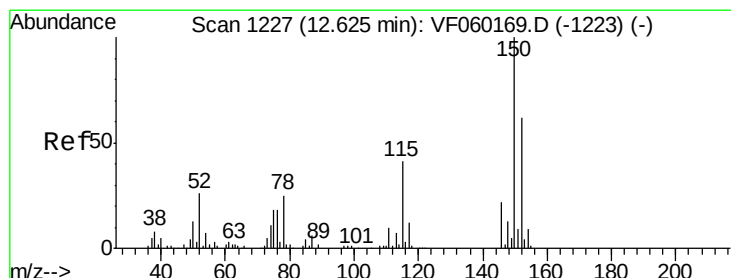
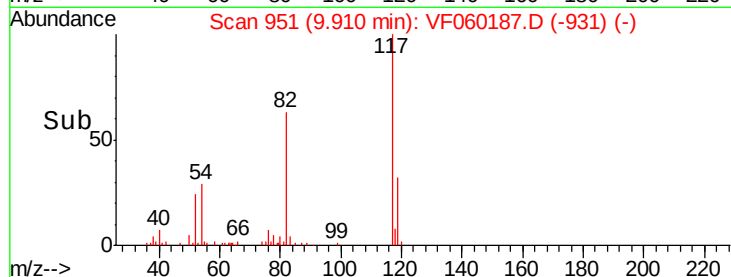
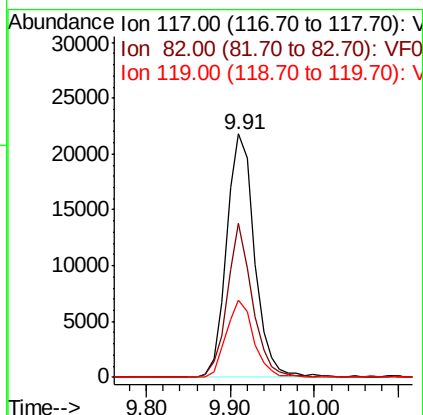
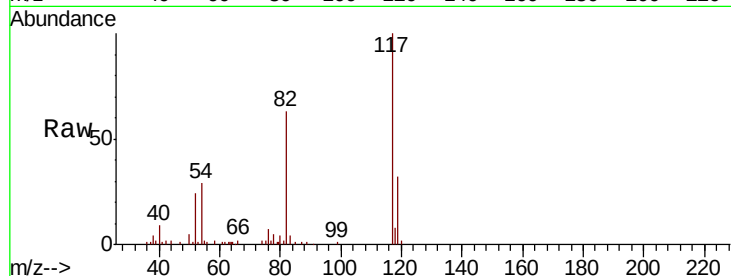




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.00 min  
Lab File: VF060187.D  
Acq: 29 Aug 2018 10:35

Instrument :  
MSVOA\_F  
ClientSampleId :  
PL-05-082418-BRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.2  | 47.2  | 70.8  |
| 119     | 31.9  | 25.0  | 37.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. 0.01 min  
Lab File: VF060187.D  
Acq: 29 Aug 2018 10:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 51.4  | 33.2  | 99.6  |
| 150     | 149.7 | 0.0   | 325.6 |

