

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082318\  
 Data File : VF060048.D  
 Acq On : 23 Aug 2018 12:46  
 Operator : VA/AP  
 Sample : VF0823SBL01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0823SBL01

Quant Time: Aug 23 15:27:26 2018  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 04:43:43 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 225230   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 348332   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 372314   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.64 | 152  | 224687   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.02  | 65   | 154573   | 50.14 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.28% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 142538   | 52.11 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.22% |          |
| 50) Toluene-d8              | 7.71  | 98   | 379258   | 48.82 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.64%  |          |
| 62) 4-Bromofluorobenzene    | 11.52 | 95   | 206966   | 50.36 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.72% |          |

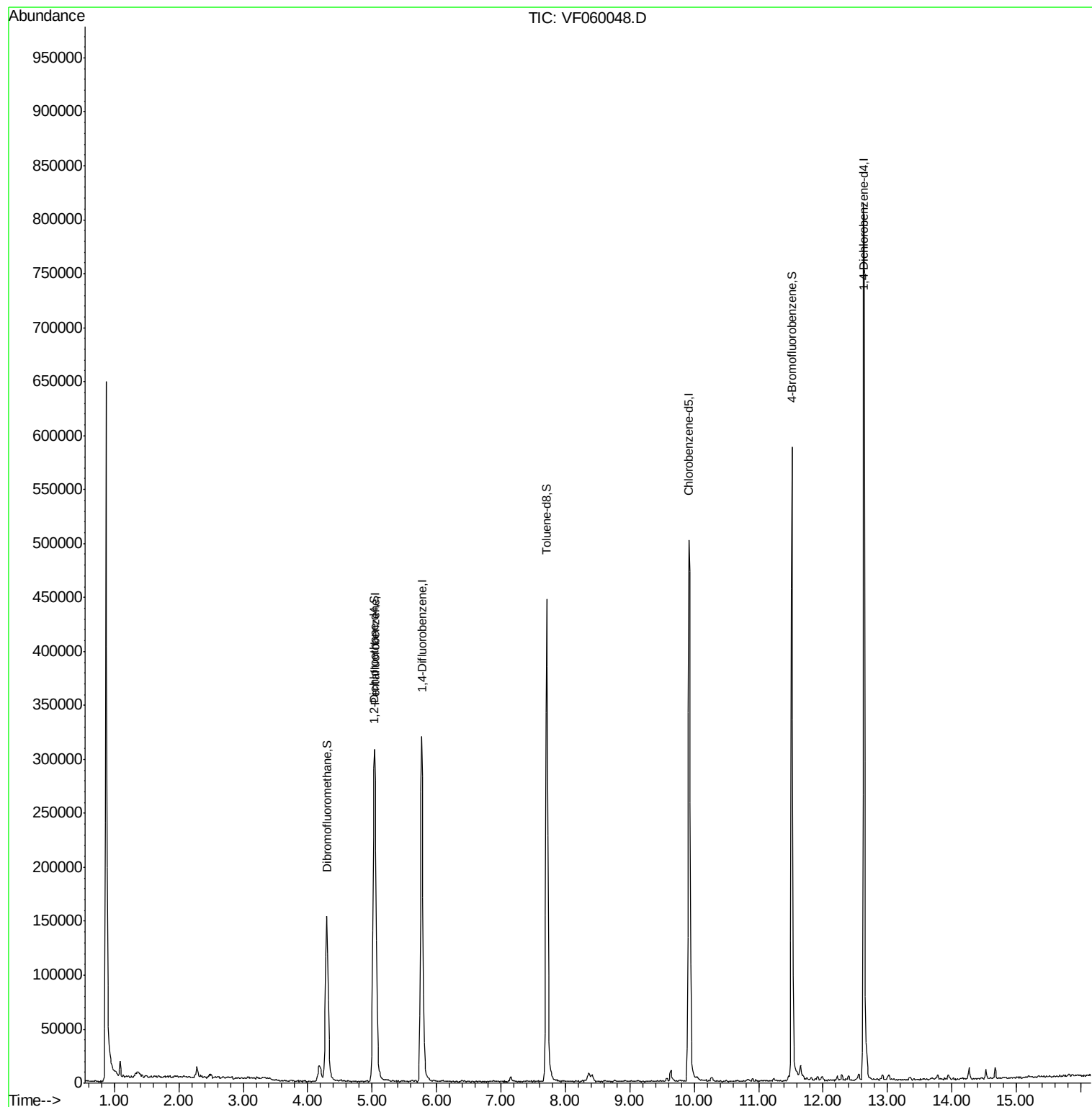
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

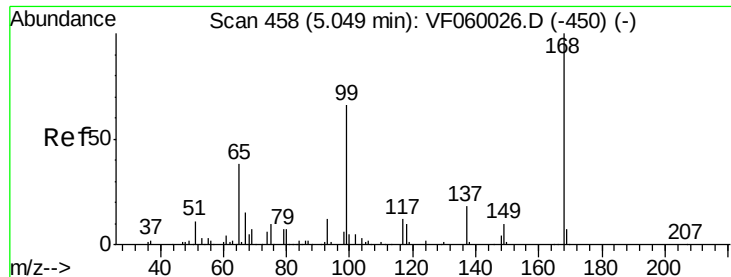
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF082318\  
Data File : VF060048.D  
Acq On : 23 Aug 2018 12:46  
Operator : VA/AP  
Sample : VF0823SBL01  
Misc : 5.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0823SBL01

Quant Time: Aug 23 15:27:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F082118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 22 04:43:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF060048.D

Acq: 23 Aug 2018 12:46

Instrument :

MSVOA\_F

ClientSampleId :

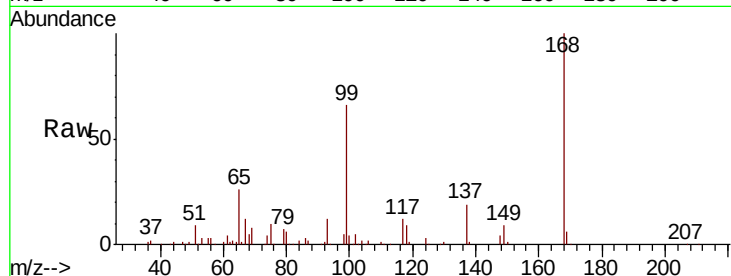
VF0823SBL01

Tot Ion:168 Resp: 225230

Ion Ratio Lower Upper

168 100

99 66.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

80000

60000

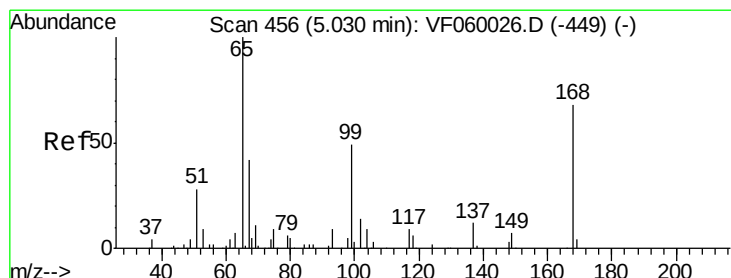
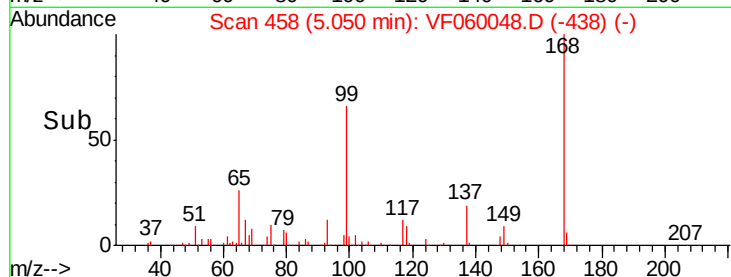
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#33

1,2-Dichloroethane-d4

Concen: 50.14 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF060048.D

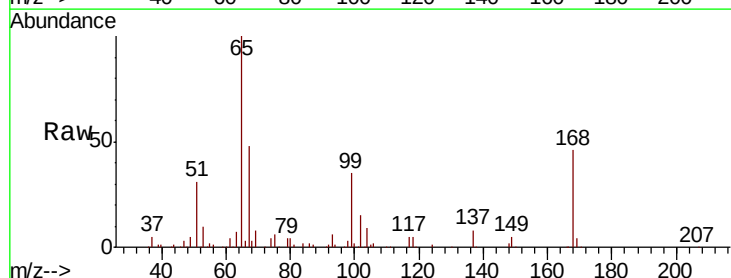
Acq: 23 Aug 2018 12:46

Tgt Ion: 65 Resp: 154573

Ion Ratio Lower Upper

65 100

67 48.4 0.0 92.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.02

60000

50000

40000

30000

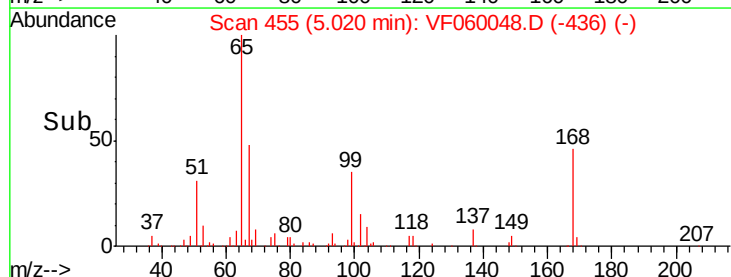
20000

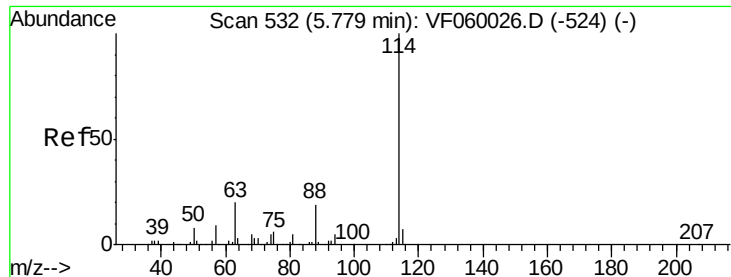
10000

0

Time-->

4.90 5.00 5.10 5.20

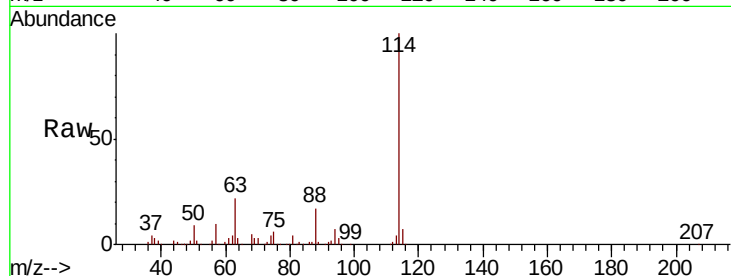




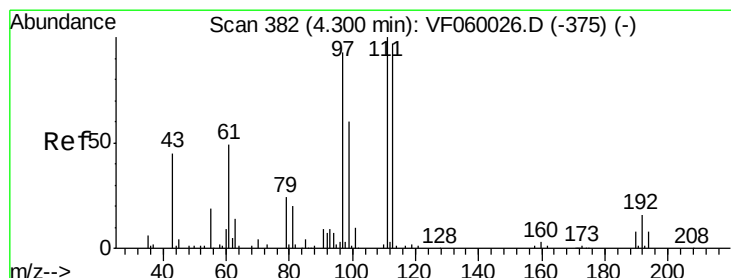
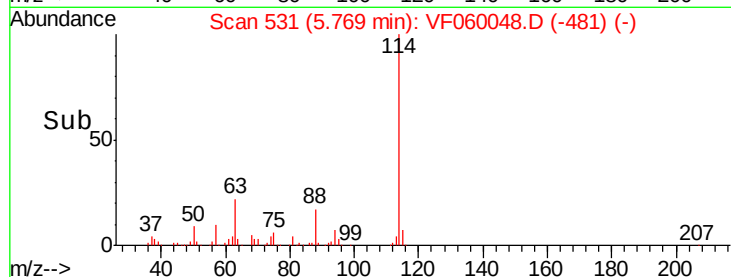
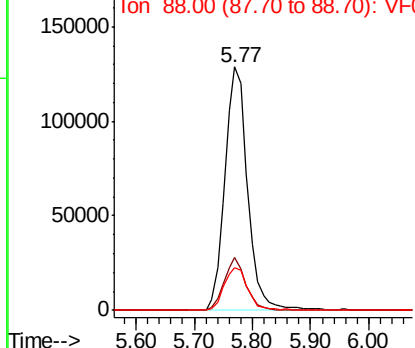
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.77 min Scan# 531  
 Delta R.T. -0.01 min  
 Lab File: VF060048.D  
 Acq: 23 Aug 2018 12:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0823SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.0  | 0.0   | 40.4  |
| 88      | 17.3  | 0.0   | 38.6  |

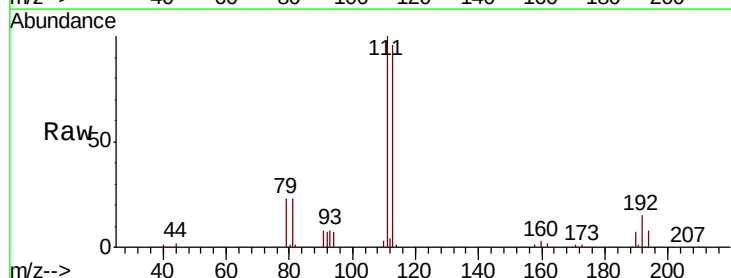


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VF0  
 Ion 88.00 (87.70 to 88.70): VF0

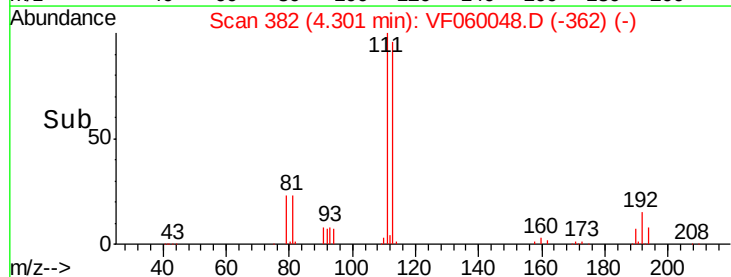
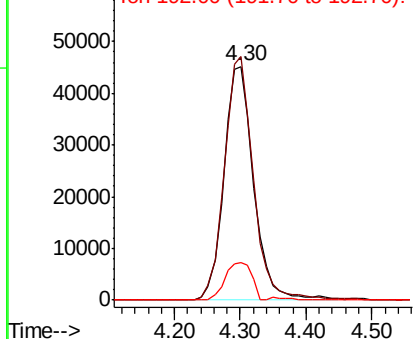


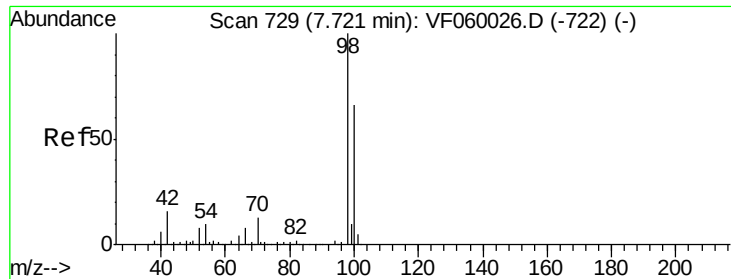
#35  
 Dibromofluoromethane  
 Concen: 52.11 ug/l  
 RT: 4.30 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: VF060048.D  
 Acq: 23 Aug 2018 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 82.7  | 124.1 |
| 192     | 15.9  | 13.0  | 19.4  |



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

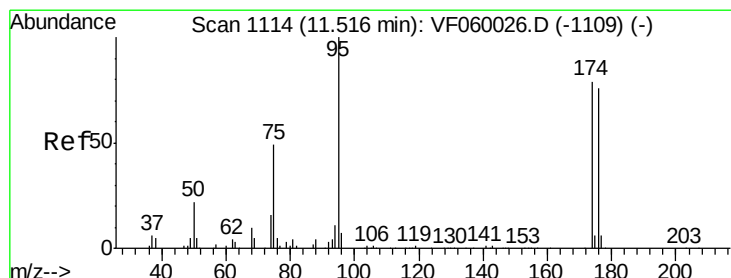
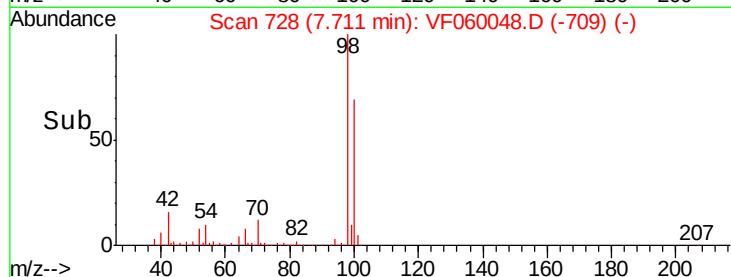
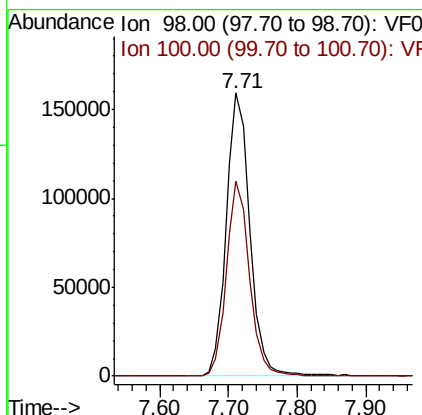
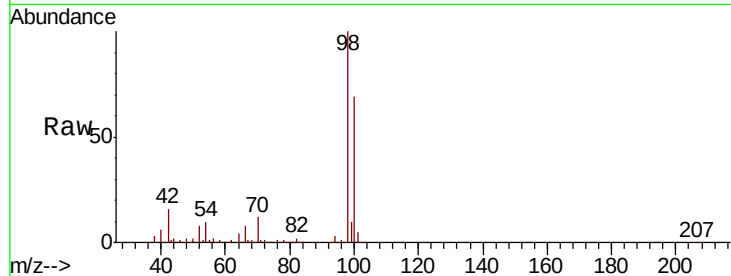




#50  
Toluene-d8  
Concen: 48.82 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. -0.01 min  
Lab File: VF060048.D  
Acq: 23 Aug 2018 12:46

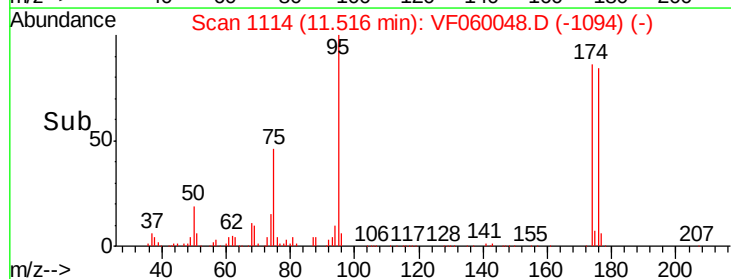
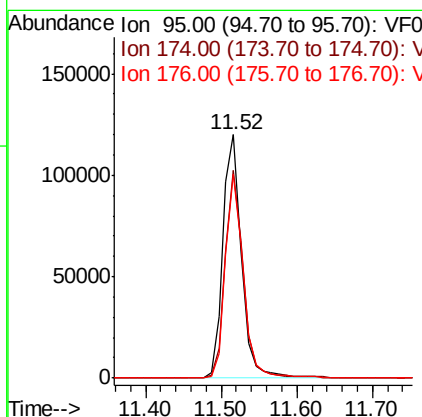
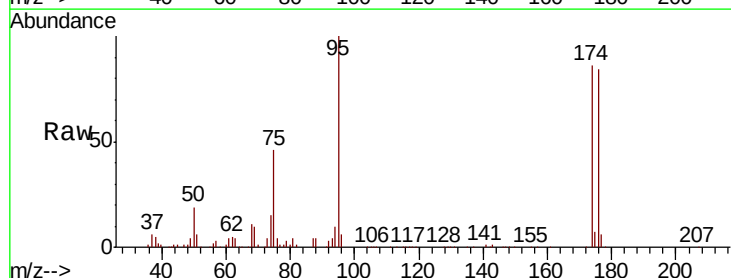
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0823SBL01

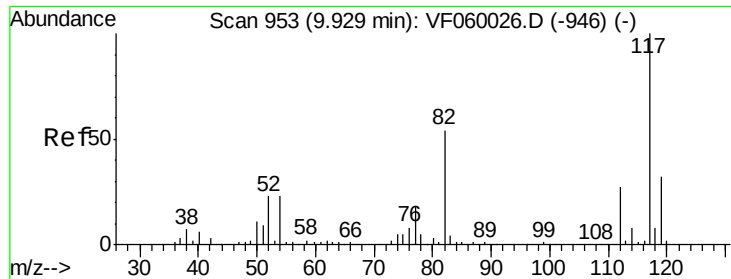
Tot Ion: 98 Resp: 379258  
Ion Ratio Lower Upper  
98 100  
100 69.1 53.2 79.8



#62  
4-Bromofluorobenzene  
Concen: 50.36 ug/l  
RT: 11.52 min Scan# 1114  
Delta R.T. 0.00 min  
Lab File: VF060048.D  
Acq: 23 Aug 2018 12:46

Tgt Ion: 95 Resp: 206966  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 158.4  
176 83.8 0.0 153.0

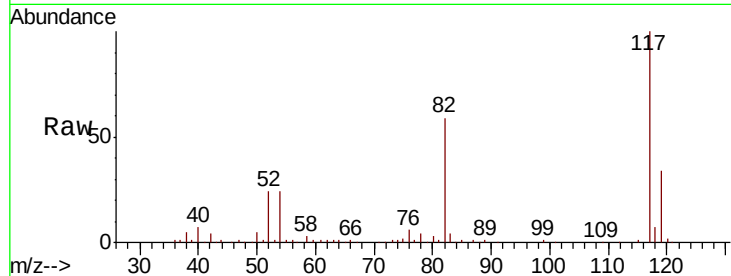




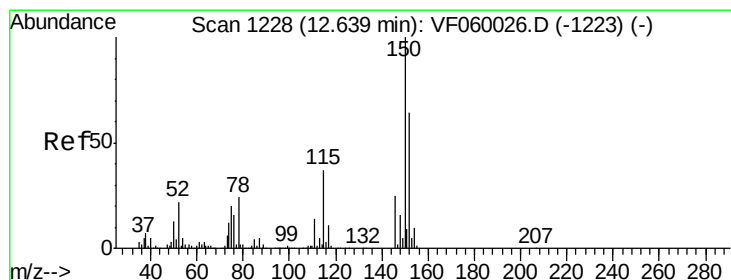
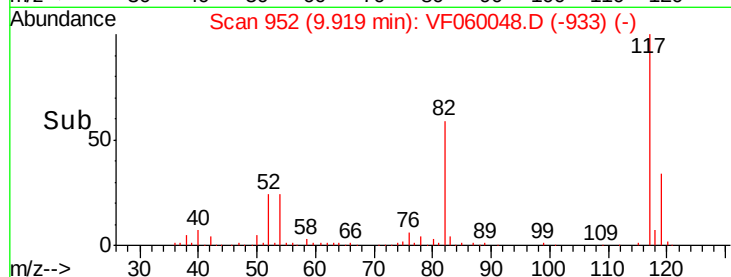
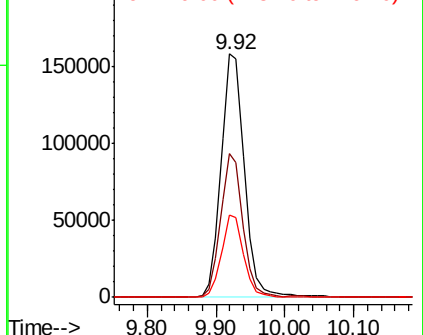
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.92 min Scan# 952  
Delta R.T. -0.01 min  
Lab File: VF060048.D  
Acq: 23 Aug 2018 12:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0823SBL01

Tot Ion:117 Resp: 372314  
Ion Ratio Lower Upper  
117 100  
82 59.0 43.6 65.4  
119 33.7 25.6 38.4

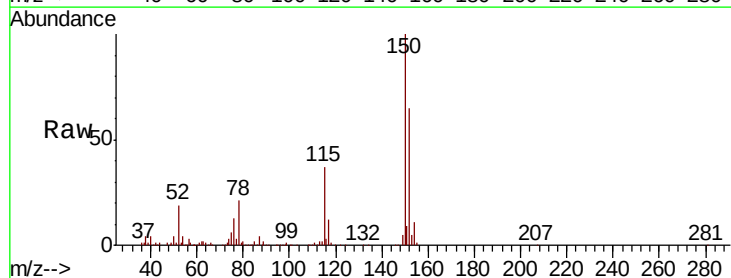


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.64 min Scan# 1228  
Delta R.T. 0.00 min  
Lab File: VF060048.D  
Acq: 23 Aug 2018 12:46

Tgt Ion:152 Resp: 224687  
Ion Ratio Lower Upper  
152 100  
115 56.4 28.6 85.9  
150 153.8 0.0 312.0



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

