

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020819\  
 Data File : VF061560.D  
 Acq On : 8 Feb 2019 16:14  
 Operator : VA/AP  
 Sample : VF0208SBL01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0208SBL01

Quant Time: Feb 09 04:40:00 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      | 4.87  | 168  | 194780   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 335495   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 310554   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.56 | 152  | 170527   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 4.84   | 65  | 114890   | 47.78 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.56%  |      |
| 35) Dibromofluoromethane    | 4.11   | 113 | 136703   | 51.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.28% |      |
| 50) Toluene-d8              | 7.55   | 98  | 323069   | 44.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.08%  |      |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 171483   | 50.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.20% |      |

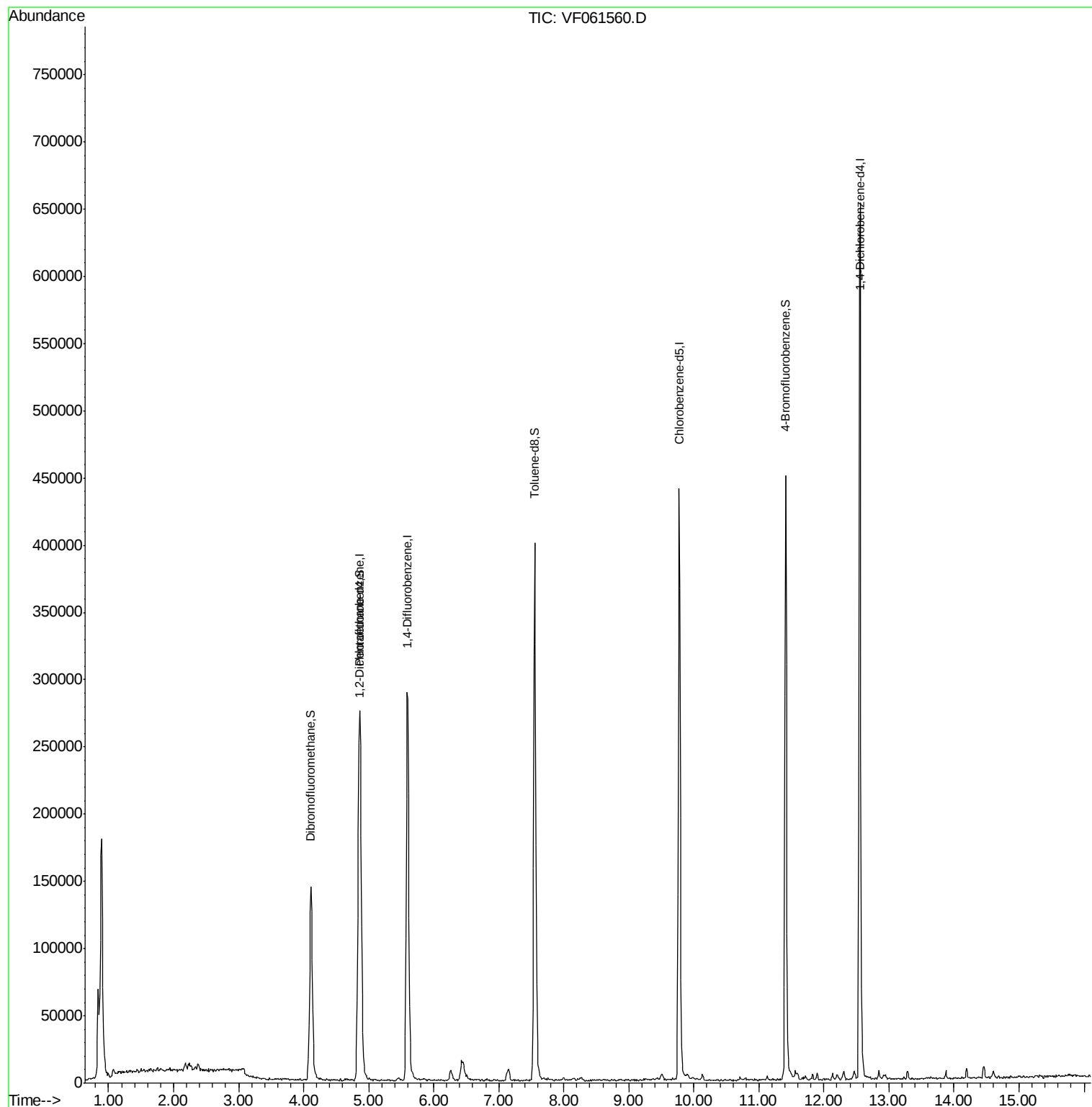
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

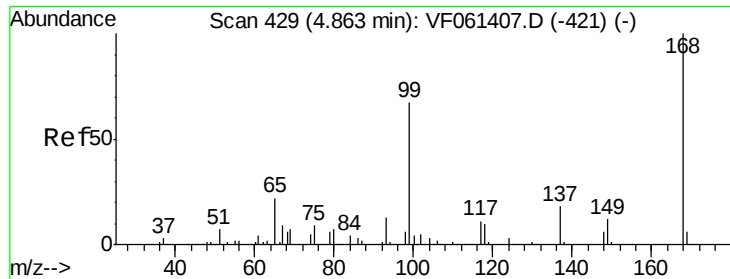
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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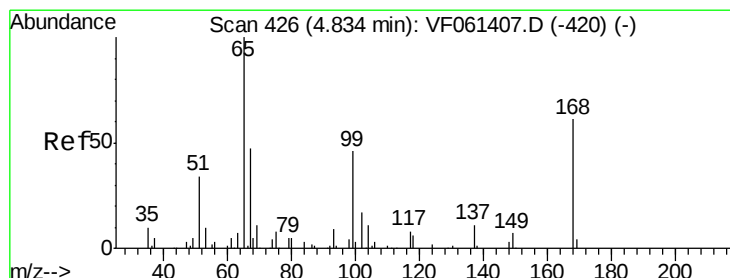
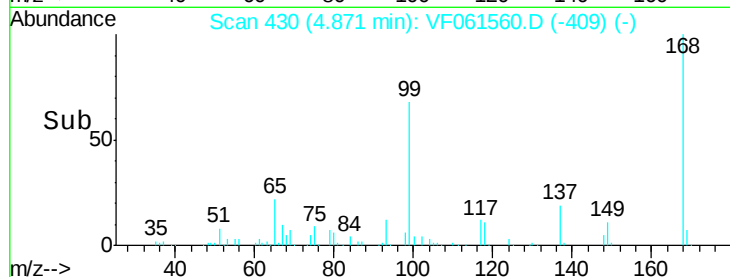
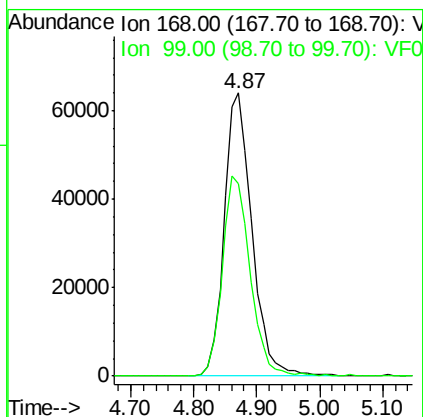
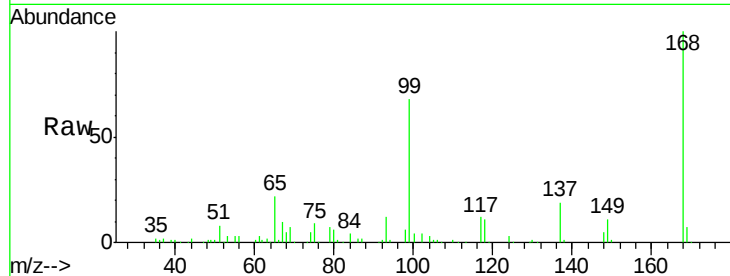




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.87 min Scan# 430  
Delta R.T. 0.01 min  
Lab File: VF061560.D  
Acq: 8 Feb 2019 16:14

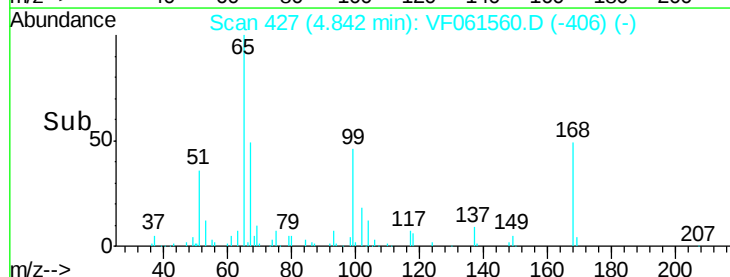
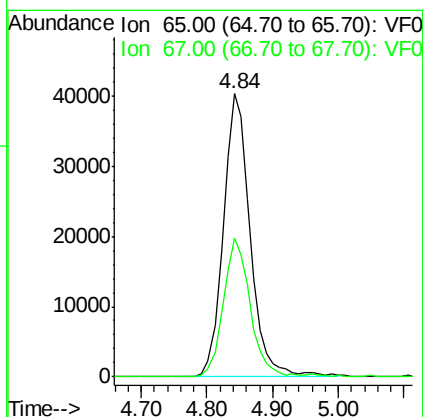
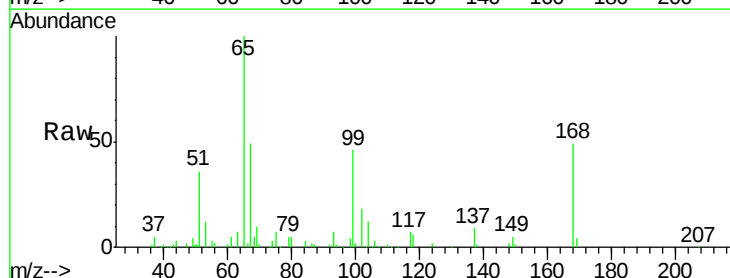
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0208SBL01

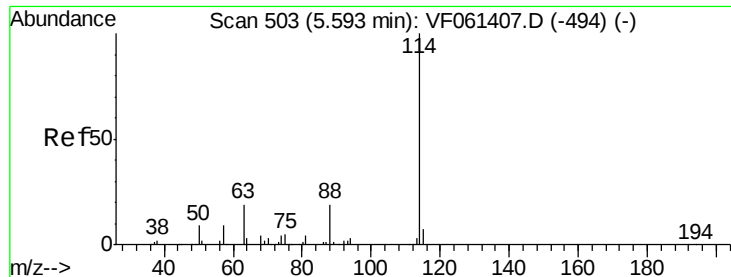
Tot Ion:168 Resp: 194780  
Ion Ratio Lower Upper  
168 100  
99 67.8 53.5 80.3



#33  
1,2-Dichloroethane-d4  
Concen: 47.775 ug/l  
RT: 4.84 min Scan# 427  
Delta R.T. 0.01 min  
Lab File: VF061560.D  
Acq: 8 Feb 2019 16:14

Tgt Ion: 65 Resp: 114890  
Ion Ratio Lower Upper  
65 100  
67 49.0 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061560.D

Acq: 8 Feb 2019 16:14

Instrument :

MSVOA\_F

ClientSampleId :

VF0208SBL01

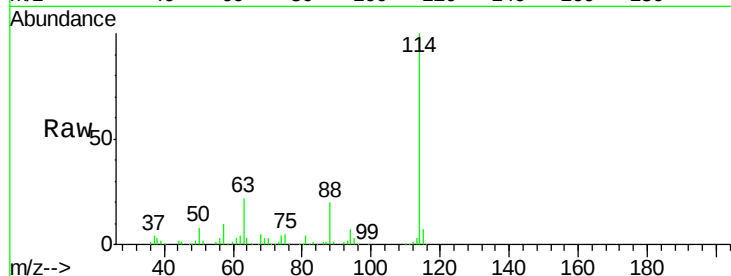
Tot Ion:114 Resp: 335495

Ion Ratio Lower Upper

114 100

63 21.8 0.0 39.0

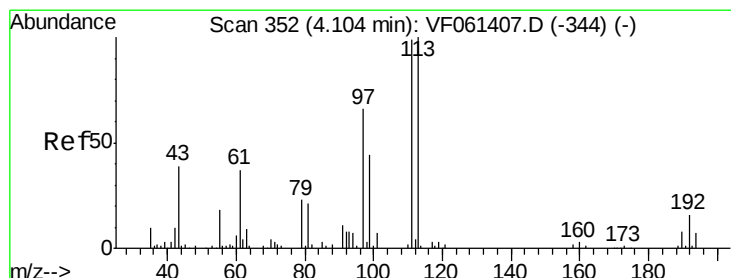
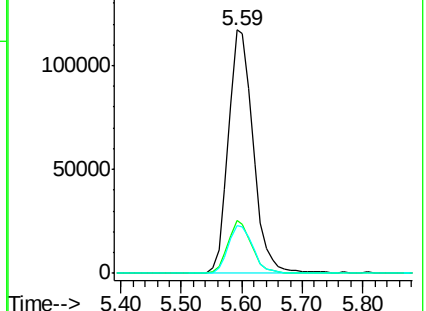
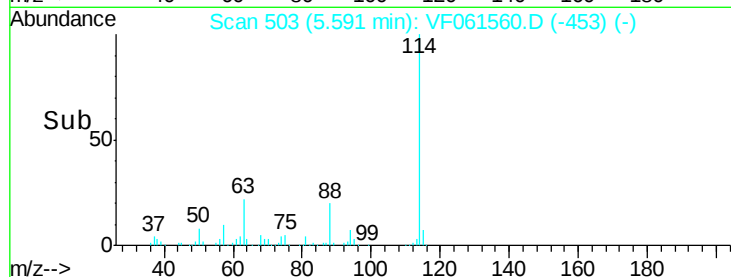
88 19.5 0.0 37.4



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: 51.638 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061560.D

Acq: 8 Feb 2019 16:14

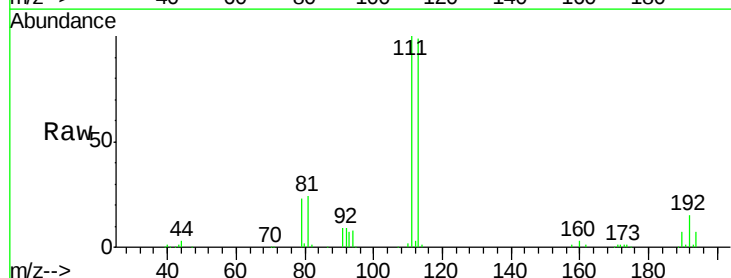
Tgt Ion:113 Resp: 136703

Ion Ratio Lower Upper

113 100

111 101.3 79.4 119.0

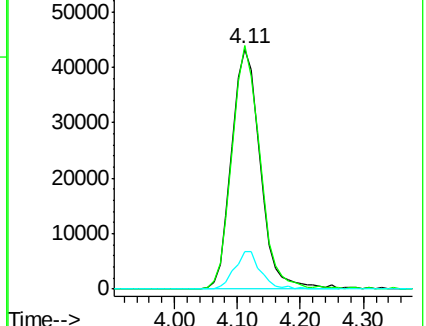
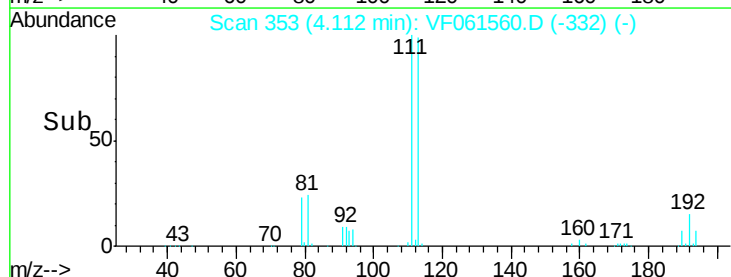
192 15.5 12.4 18.6

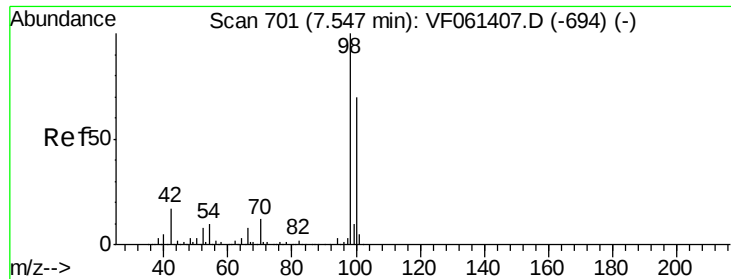


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 44.541 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061560.D

Acq: 8 Feb 2019 16:14

Instrument :

MSVOA\_F

ClientSampleId :

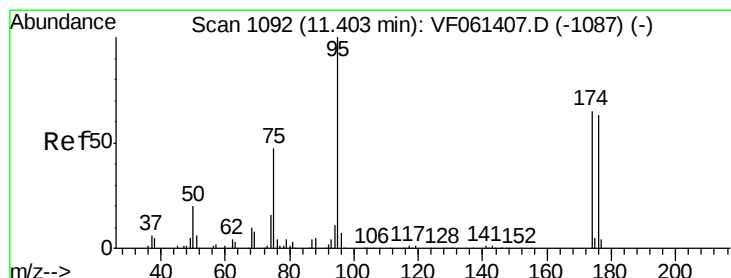
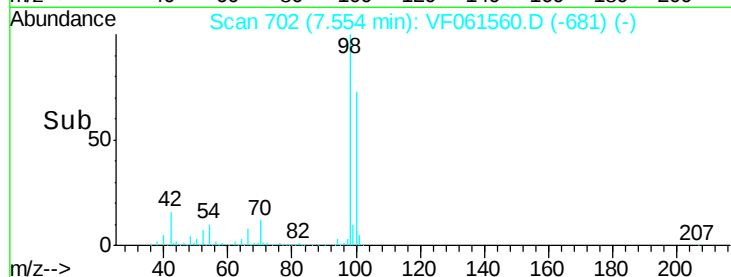
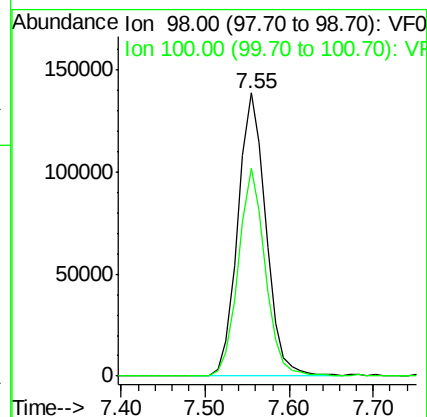
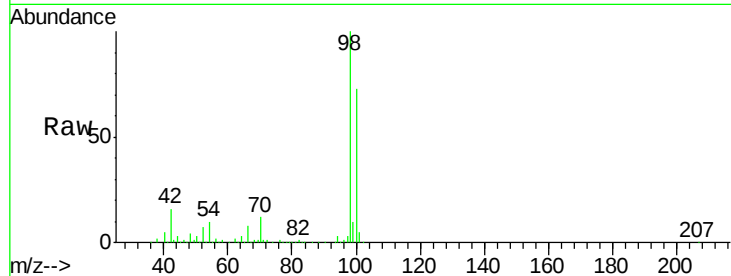
VF0208SBL01

Tot Ion: 98 Resp: 323069

Ion Ratio Lower Upper

98 100

100 73.4 55.6 83.4



#62

4-Bromofluorobenzene

Concen: 50.601 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061560.D

Acq: 8 Feb 2019 16:14

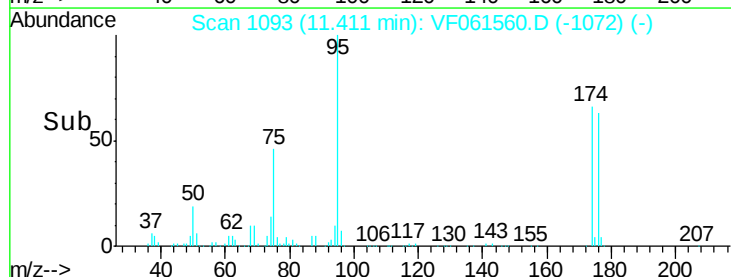
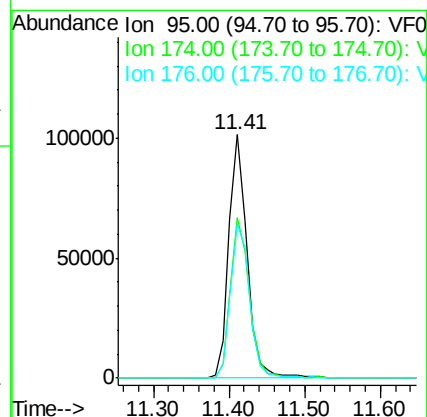
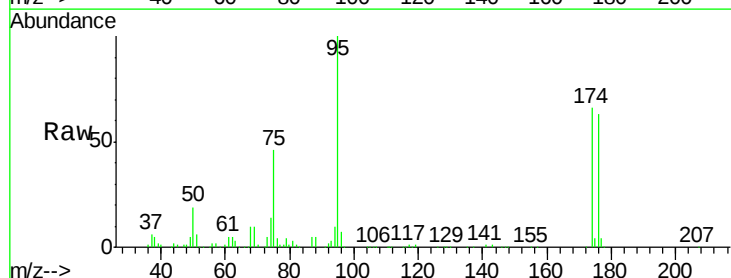
Tgt Ion: 95 Resp: 171483

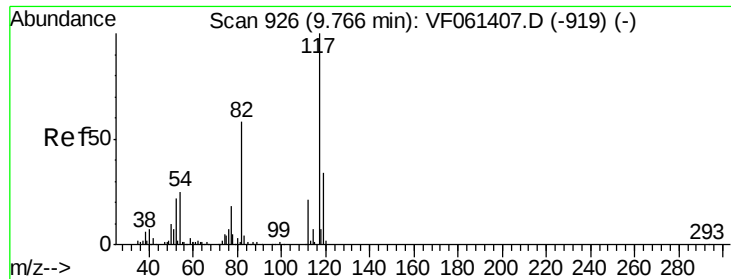
Ion Ratio Lower Upper

95 100

174 66.1 0.0 130.4

176 63.3 0.0 126.2

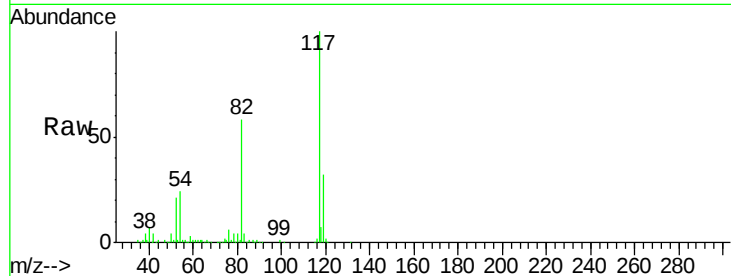




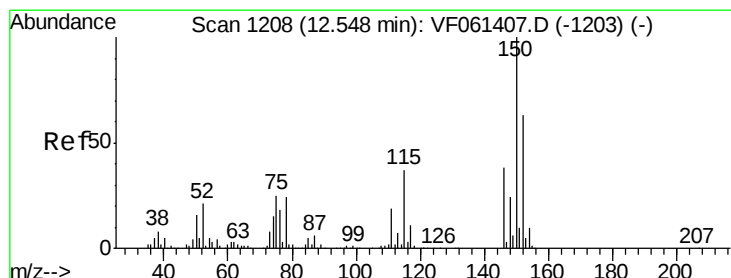
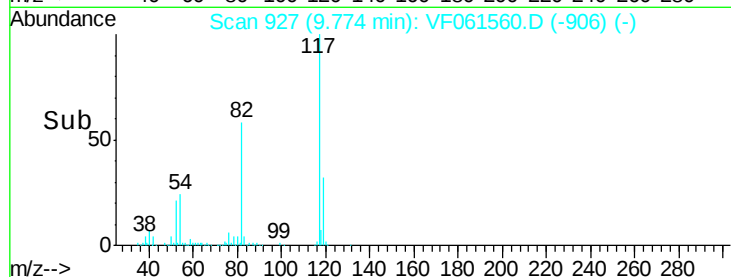
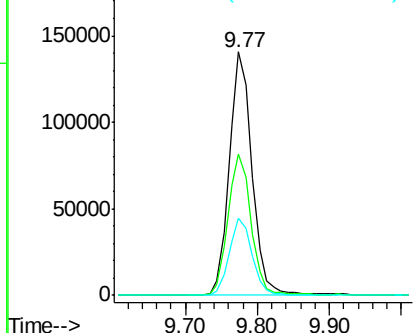
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. 0.01 min  
Lab File: VF061560.D  
Acq: 8 Feb 2019 16:14

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0208SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.0  | 46.4  | 69.6  |
| 119     | 31.9  | 27.2  | 40.8  |

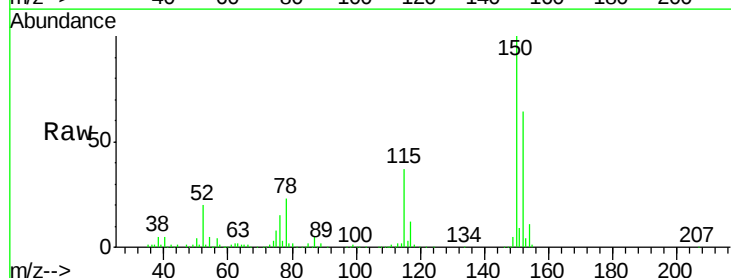


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.56 min Scan# 1209  
Delta R.T. 0.01 min  
Lab File: VF061560.D  
Acq: 8 Feb 2019 16:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.0  | 30.0  | 90.0  |
| 150     | 157.2 | 0.0   | 321.4 |



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

