

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\  
 Data File : VF062698.D  
 Acq On : 22 May 2019 11:34  
 Operator : FY/SY  
 Sample : VF0522SBL01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0522SBL01

Quant Time: May 23 01:47:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 819399   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 1331800  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 988898   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 475372   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4   | 5.03   | 65  | 286811   | 49.53 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.06%  |       |
| 35) Dibromofluoromethane    | 4.30   | 113 | 544602   | 53.44 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.88% |       |
| 50) Toluene-d8              | 7.70   | 98  | 1139785  | 46.84 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.68%  |       |
| 62) 4-Bromofluorobenzene    | 11.48  | 95  | 393977   | 42.69 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 85.38%  |       |

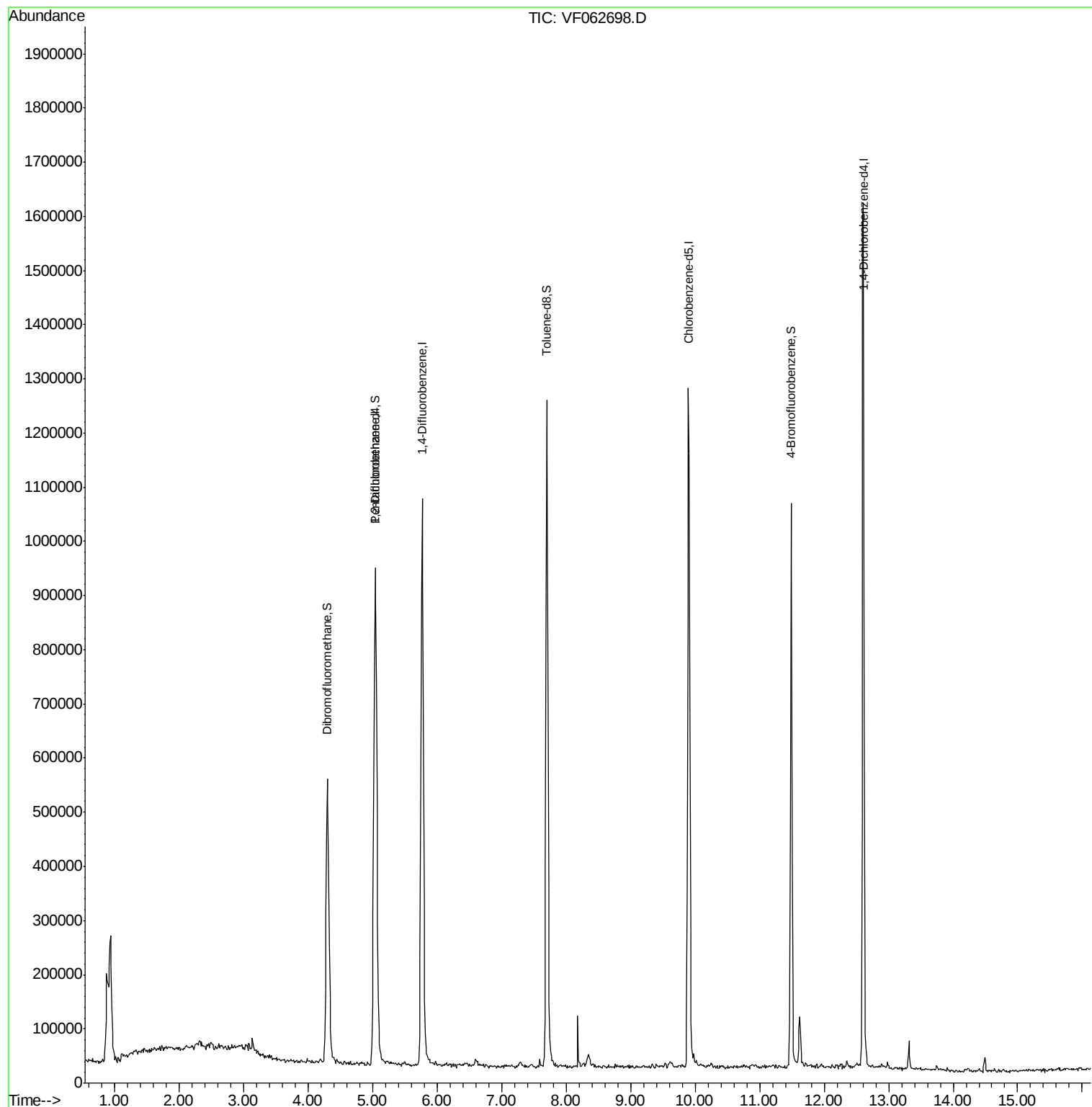
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

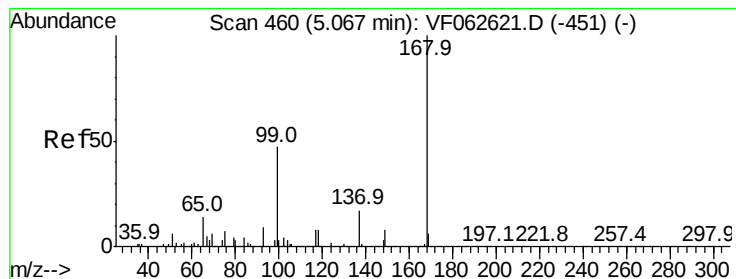
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri May 17 05:49:09 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062698.D

Acq: 22 May 2019 11:34

Instrument :

MSVOA\_F

ClientSampleId :

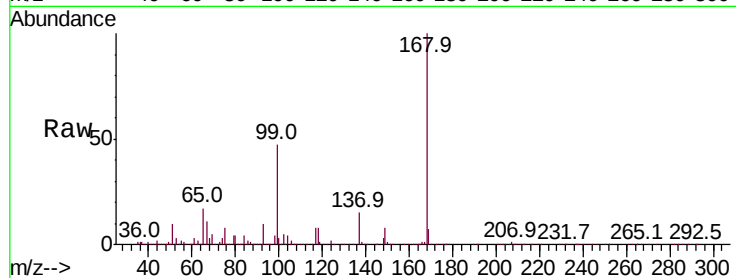
VF0522SBL01

Tot Ion:168 Resp: 819399

Ion Ratio Lower Upper

168 100

99 46.8 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

300000

250000

200000

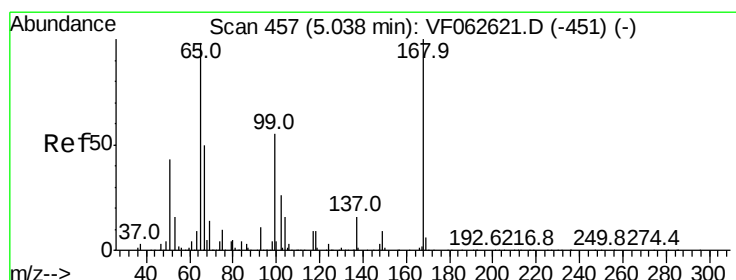
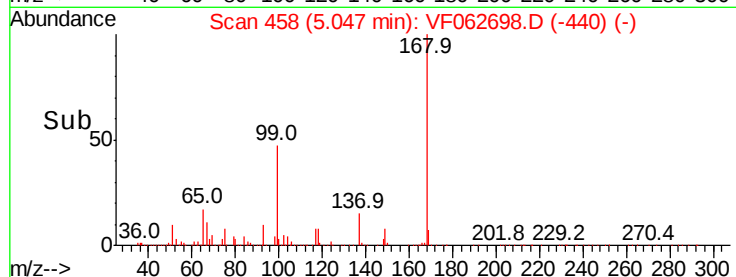
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.533 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF062698.D

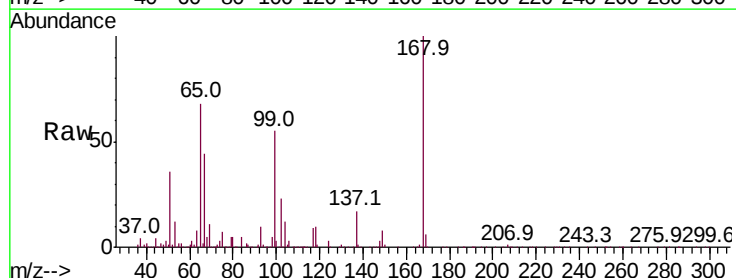
Acq: 22 May 2019 11:34

Tgt Ion: 65 Resp: 286811

Ion Ratio Lower Upper

65 100

67 64.0 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

120000

100000

80000

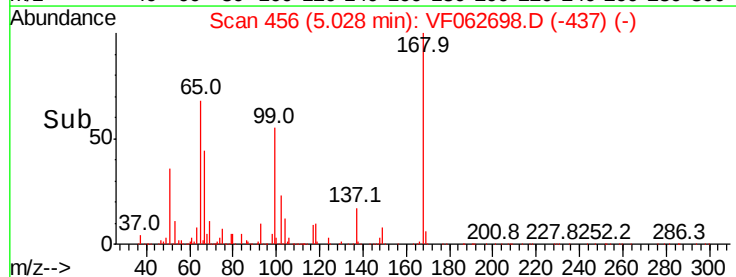
60000

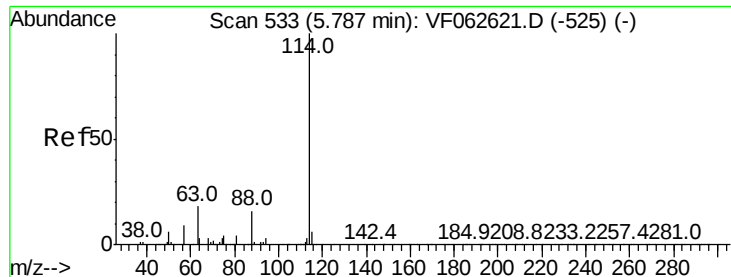
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.02 min

Lab File: VF062698.D

Acq: 22 May 2019 11:34

Instrument :

MSVOA\_F

ClientSampleId :

VF0522SBL01

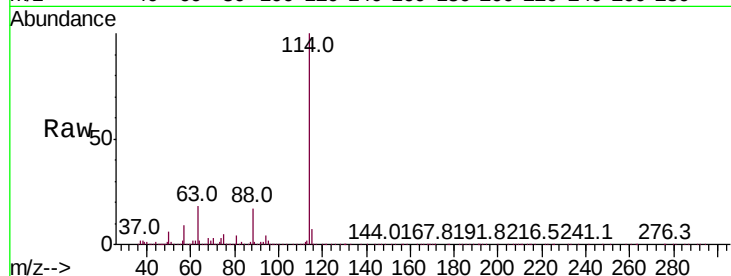
Tot Ion:114 Resp: 1331800

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.4

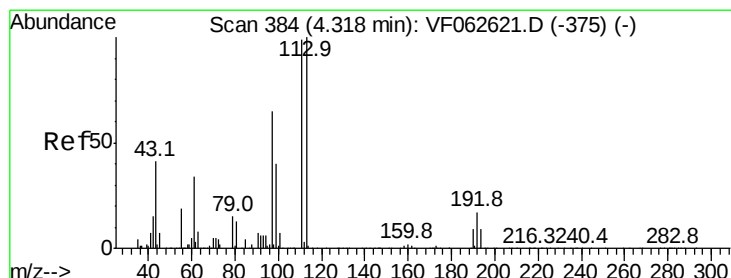
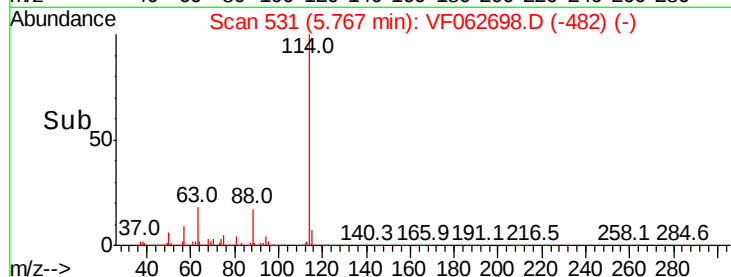
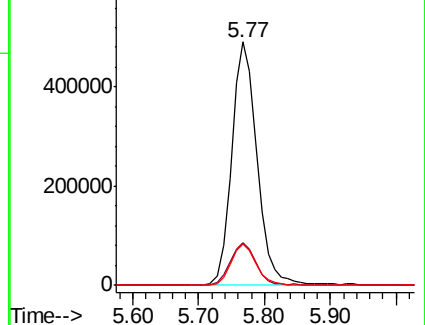
88 17.2 0.0 32.4



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: 53.440 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062698.D

Acq: 22 May 2019 11:34

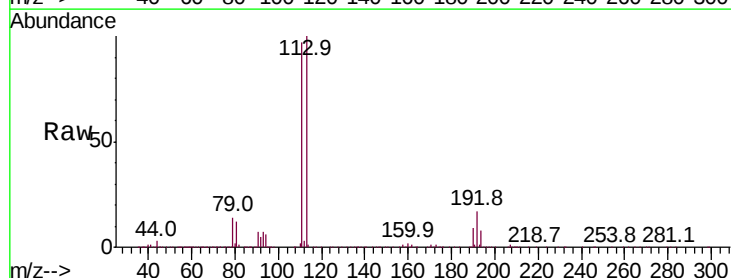
Tgt Ion:113 Resp: 544602

Ion Ratio Lower Upper

113 100

111 96.5 79.4 119.2

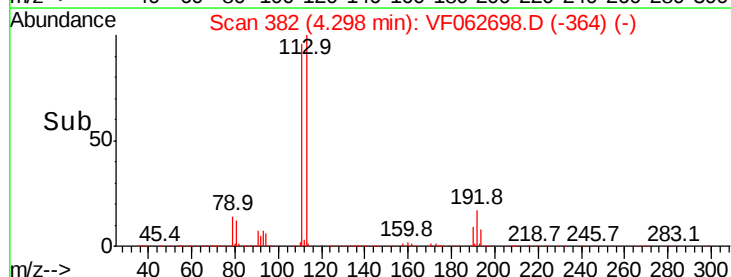
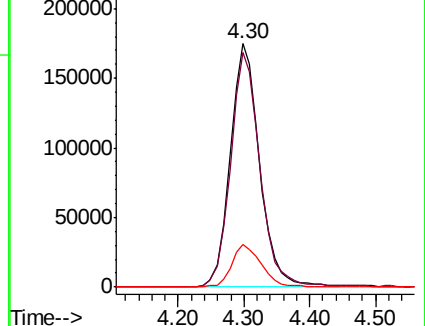
192 17.3 13.4 20.2

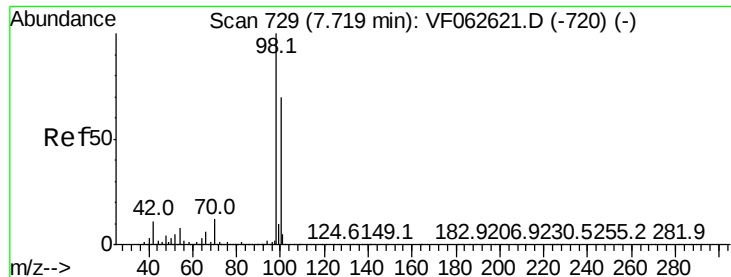


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

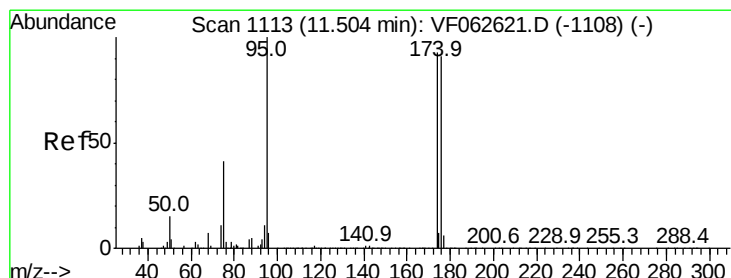
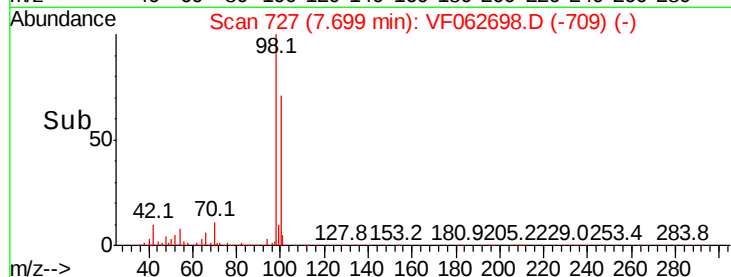
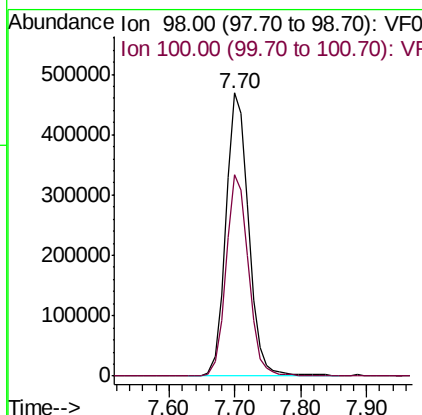
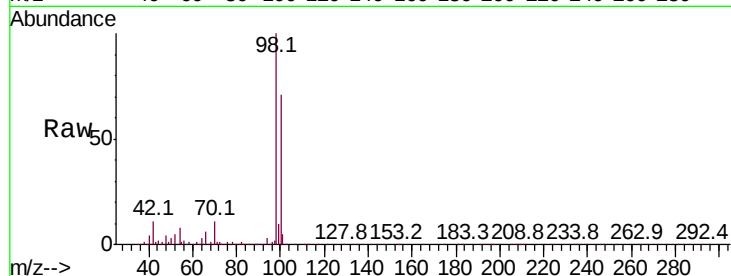




#50  
Toluene-d8  
Concen: 46.843 ug/l  
RT: 7.70 min Scan# 727  
Delta R.T. -0.02 min  
Lab File: VF062698.D  
Acq: 22 May 2019 11:34

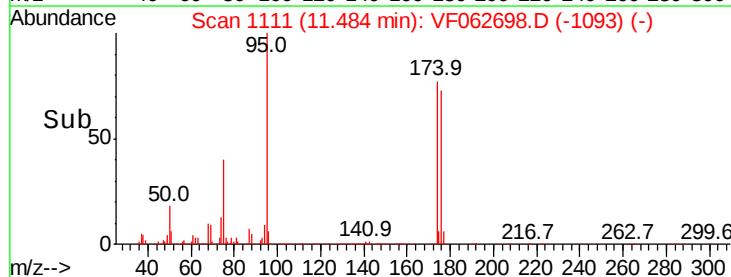
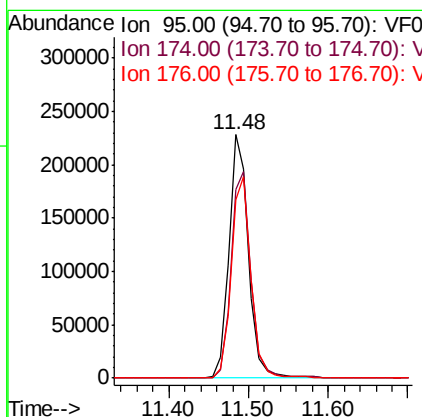
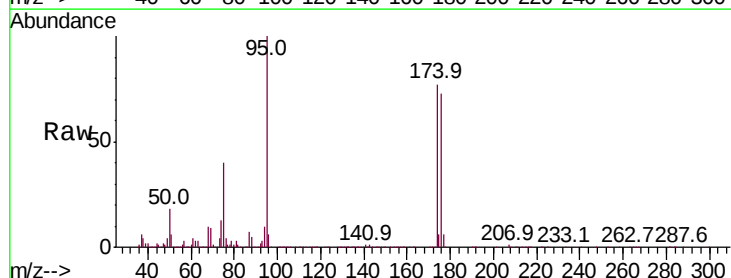
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0522SBL01

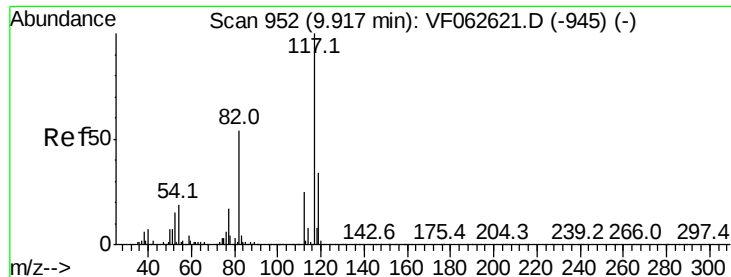
Tot Ion: 98 Resp: 1139785  
Ion Ratio Lower Upper  
98 100  
100 71.1 56.2 84.2



#62  
4-Bromofluorobenzene  
Concen: 42.692 ug/l  
RT: 11.48 min Scan# 1111  
Delta R.T. -0.02 min  
Lab File: VF062698.D  
Acq: 22 May 2019 11:34

Tgt Ion: 95 Resp: 393977  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 185.6  
176 73.2 0.0 182.4

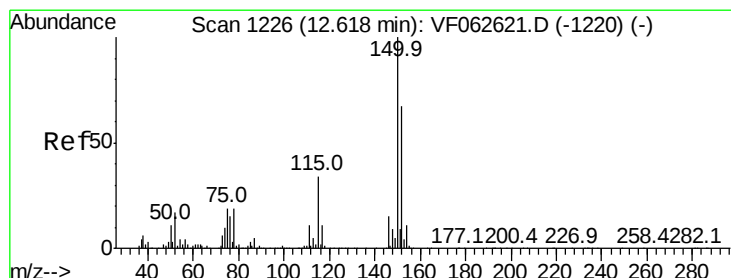
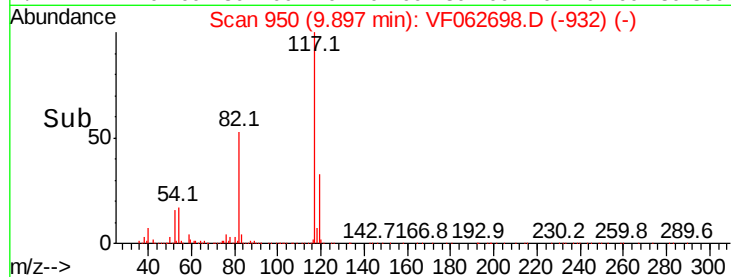
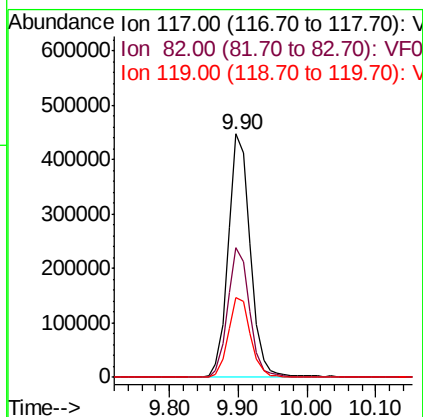
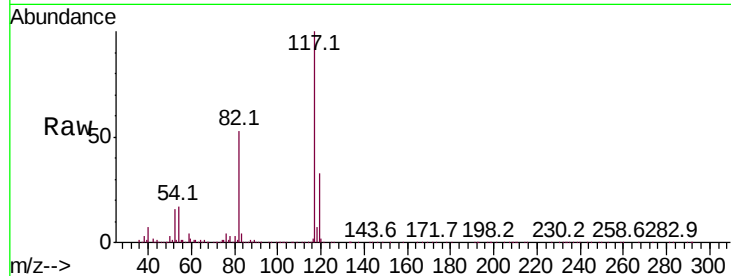




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.90 min Scan# 950  
Delta R.T. -0.02 min  
Lab File: VF062698.D  
Acq: 22 May 2019 11:34

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0522SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.4  | 43.3  | 64.9  |
| 119     | 32.6  | 27.4  | 41.0  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062698.D  
Acq: 22 May 2019 11:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 49.2  | 25.2  | 75.6  |
| 150     | 146.7 | 0.0   | 306.2 |

