

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031319\  
 Data File : VF061926.D  
 Acq On : 13 Mar 2019 14:25  
 Operator : VA/AP  
 Sample : VF0313SBL01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0313SBL01

Quant Time: Mar 14 01:27:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 05 04:50:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.84  | 168  | 313745   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 5.57  | 114  | 481645   | 50.00 | ug/l  | -0.04    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 392622   | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 235586   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.82  | 65   | 123886   | 54.22 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.44% |          |
| 35) Dibromofluoromethane    | 4.09  | 113  | 182779   | 54.38 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.76% |          |
| 50) Toluene-d8              | 7.54  | 98   | 490232   | 49.07 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.14%  |          |
| 62) 4-Bromofluorobenzene    | 11.39 | 95   | 204206   | 52.18 | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.36% |          |

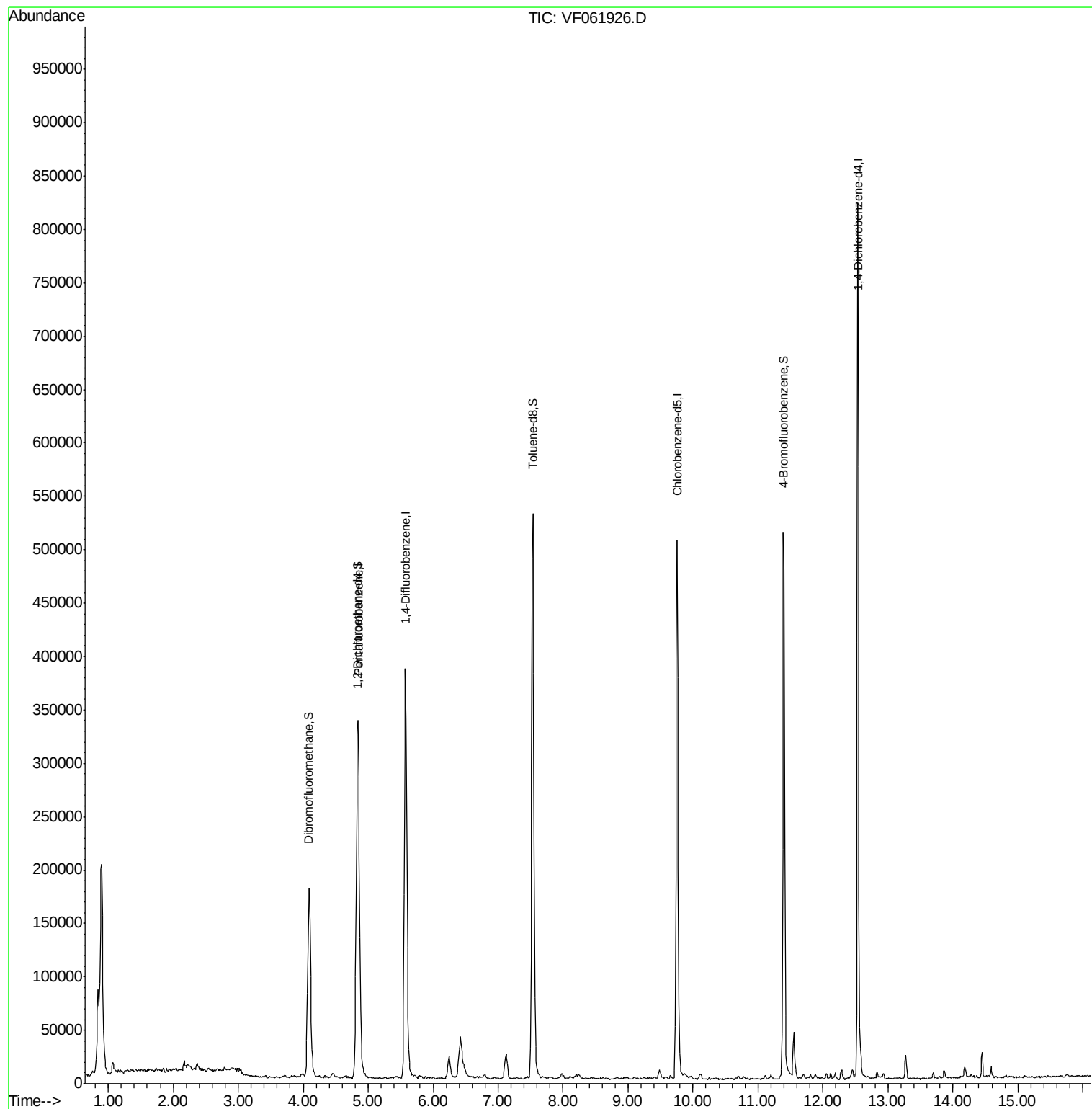
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

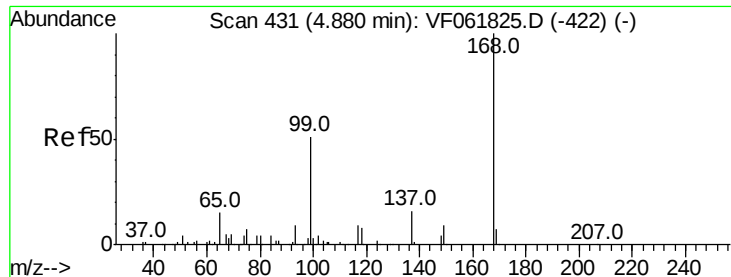
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031319\  
Data File : VF061926.D  
Acq On : 13 Mar 2019 14:25  
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Sample : VF0313SBL01  
Misc : 5.00µ/5mL/MSVOA-F/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0313SBL01

Quant Time: Mar 14 01:27:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F030419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061926.D

Acq: 13 Mar 2019 14:25

Instrument :

MSVOA\_F

ClientSampleId :

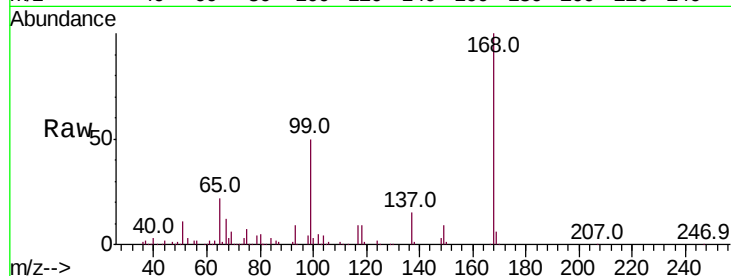
VF0313SBL01

Tot Ion:168 Resp: 313745

Ion Ratio Lower Upper

168 100

99 50.4 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

100000

80000

60000

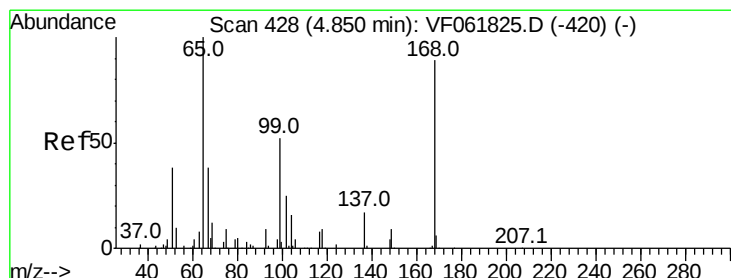
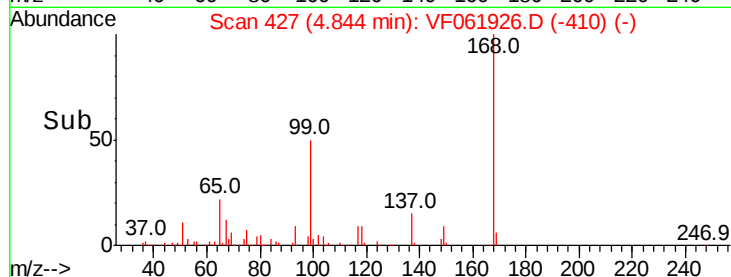
40000

20000

0

4.80 4.90

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.221 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.03 min

Lab File: VF061926.D

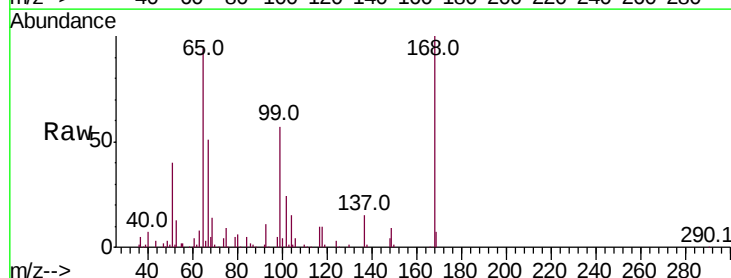
Acq: 13 Mar 2019 14:25

Tgt Ion: 65 Resp: 123886

Ion Ratio Lower Upper

65 100

67 54.6 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.82

50000

40000

30000

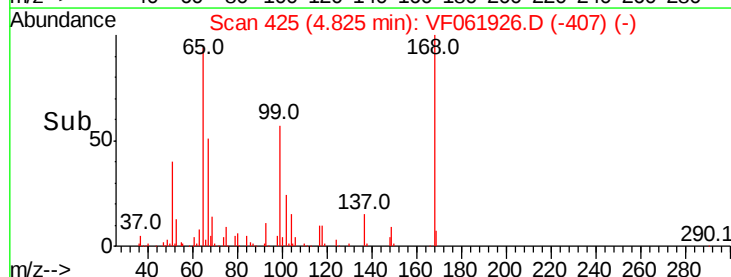
20000

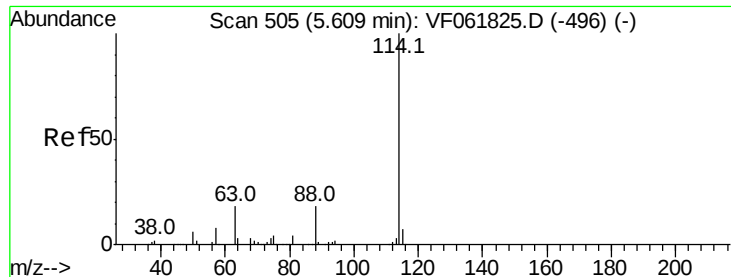
10000

0

4.70 4.80 4.90 5.00

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.04 min

Lab File: VF061926.D

Acq: 13 Mar 2019 14:25

Instrument :

MSVOA\_F

ClientSampleId :

VF0313SBL01

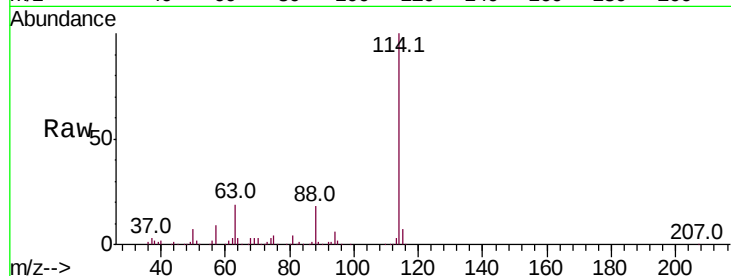
Tot Ion:114 Resp: 481645

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

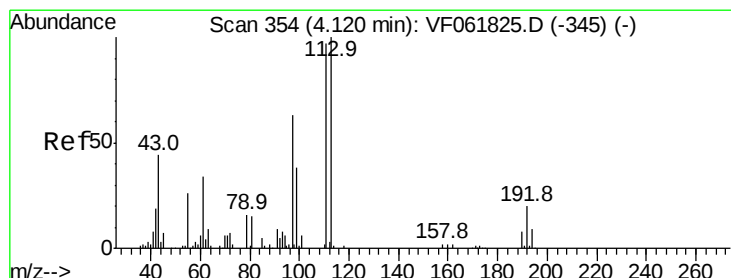
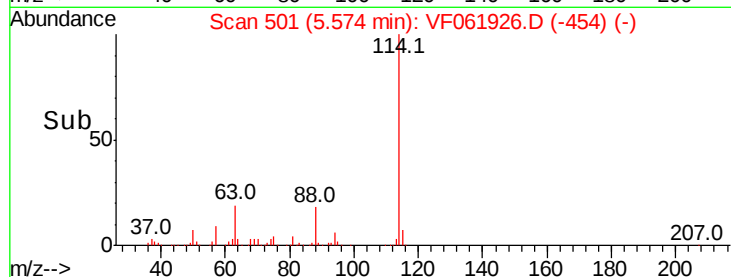
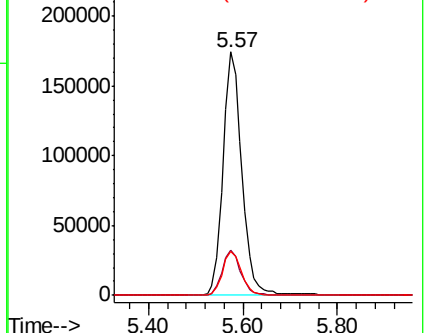
88 18.3 0.0 35.6



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: 54.378 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061926.D

Acq: 13 Mar 2019 14:25

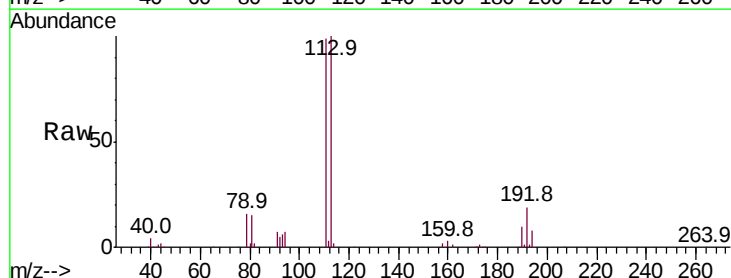
Tgt Ion:113 Resp: 182779

Ion Ratio Lower Upper

113 100

111 98.9 77.6 116.4

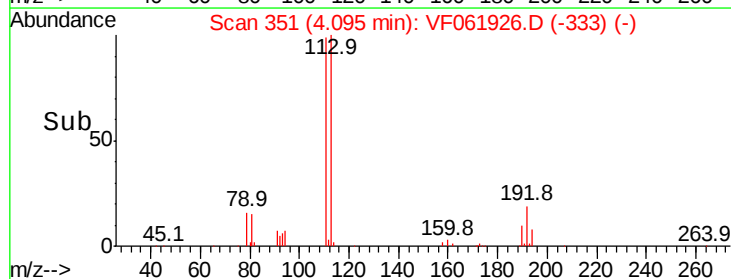
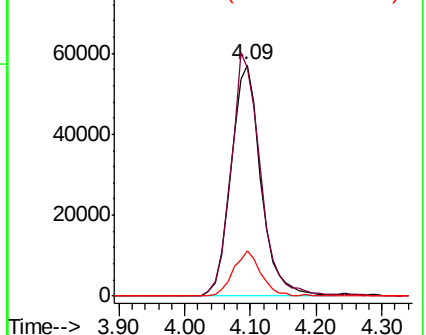
192 20.2 15.9 23.9

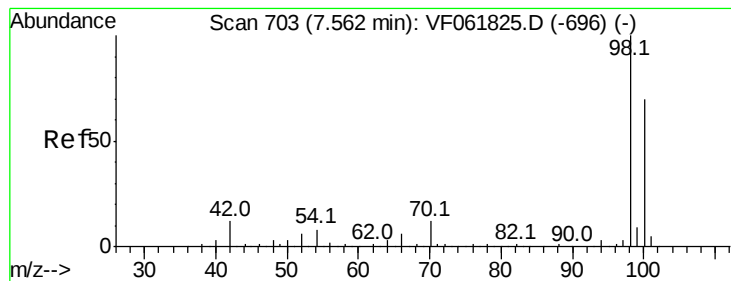


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 49.069 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061926.D

Acq: 13 Mar 2019 14:25

Instrument :

MSVOA\_F

ClientSampleId :

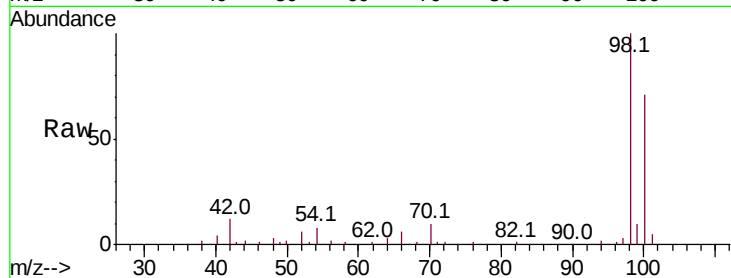
VF0313SBL01

Tot Ion: 98 Resp: 490232

Ion Ratio Lower Upper

98 100

100 70.6 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.54

200000

150000

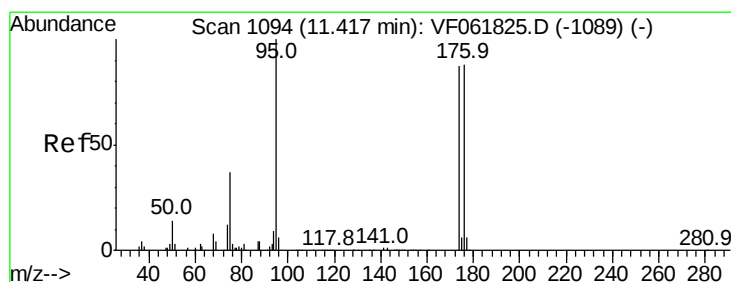
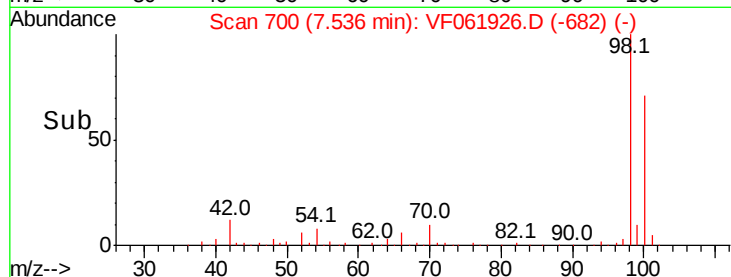
100000

50000

0

Time-->

7.40 7.50 7.60 7.70



#62

4-Bromofluorobenzene

Concen: 52.179 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.03 min

Lab File: VF061926.D

Acq: 13 Mar 2019 14:25

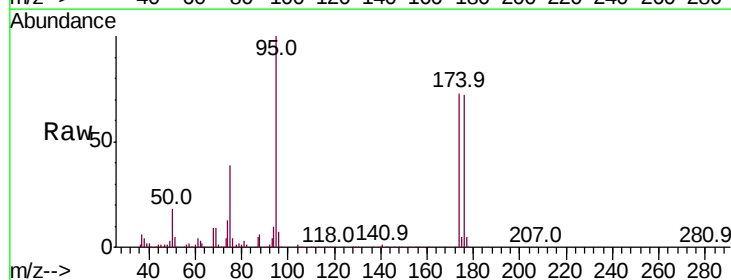
Tgt Ion: 95 Resp: 204206

Ion Ratio Lower Upper

95 100

174 73.1 0.0 174.0

176 71.7 0.0 175.2



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

150000

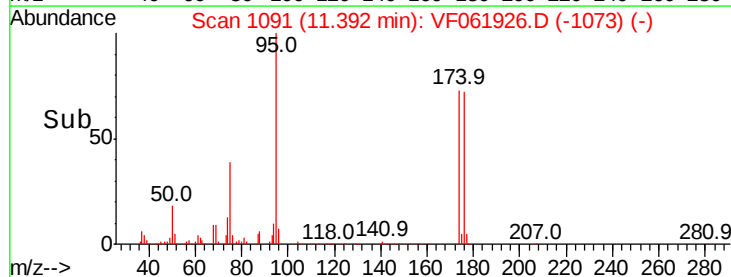
100000

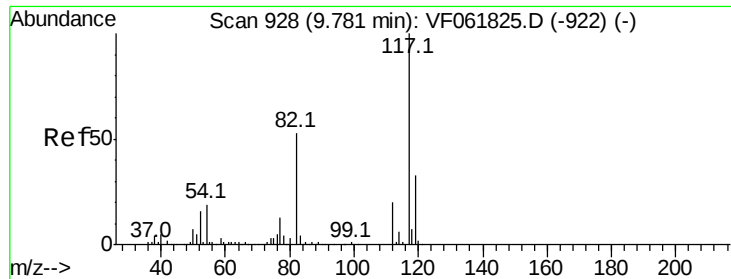
50000

0

Time-->

11.30 11.40 11.50

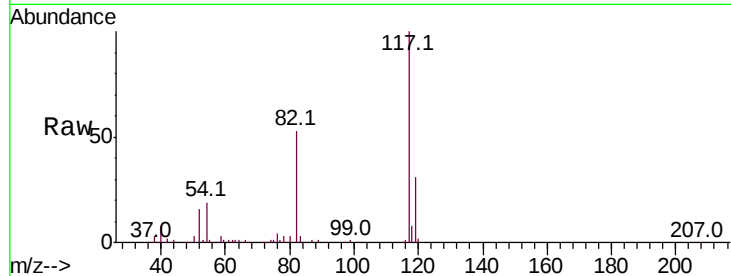




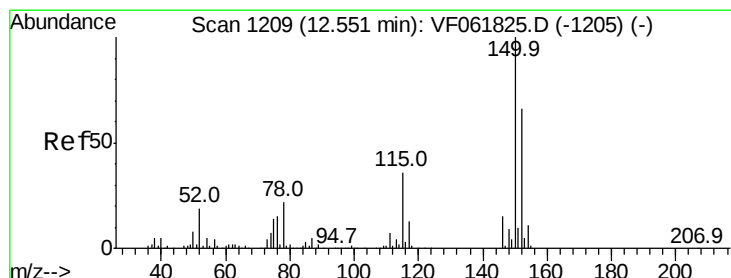
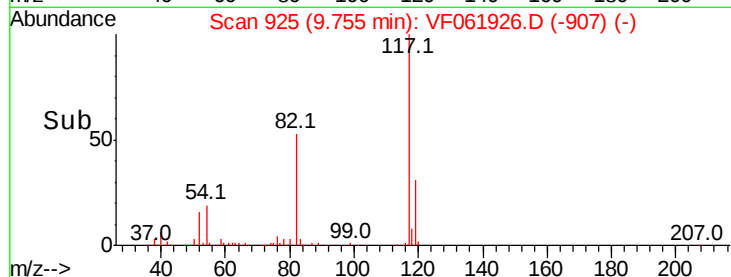
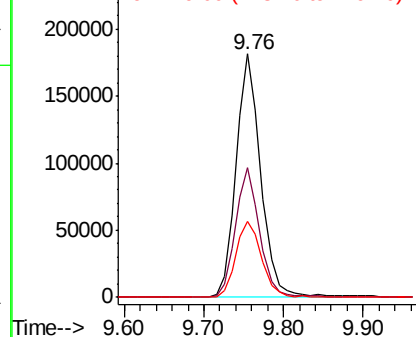
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 925  
Delta R.T. -0.03 min  
Lab File: VF061926.D  
Acq: 13 Mar 2019 14:25

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0313SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.4  | 42.6  | 63.8  |
| 119     | 31.1  | 26.0  | 39.0  |

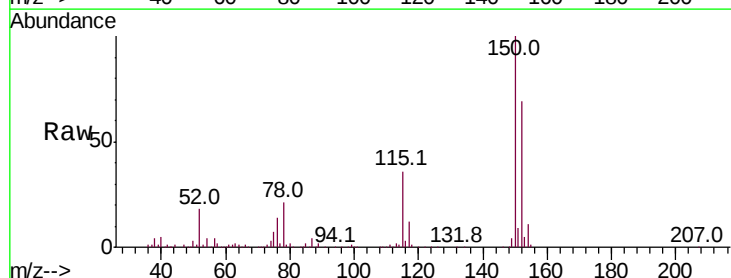


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1207  
Delta R.T. -0.02 min  
Lab File: VF061926.D  
Acq: 13 Mar 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.7  | 27.7  | 83.1  |
| 150     | 145.3 | 0.0   | 304.2 |



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

