

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\  
 Data File : VF061889.D  
 Acq On : 11 Mar 2019 15:02  
 Operator : VA/AP  
 Sample : K1824-03  
 Misc : 5.10g/5mL/MSVOA-F/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-25

Quant Time: Mar 12 05:36:42 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      | 4.86  | 168  | 180664   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 270671   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.77  | 117  | 213860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 125195   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.84  | 65   | 83554    | 63.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 127.02% |          |
| 35) Dibromofluoromethane    | 4.11  | 113  | 118597   | 62.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 125.58% |          |
| 50) Toluene-d8              | 7.55  | 98   | 290085   | 51.67 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.34% |          |
| 62) 4-Bromofluorobenzene    | 11.41 | 95   | 127553   | 58.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 116.00% |          |

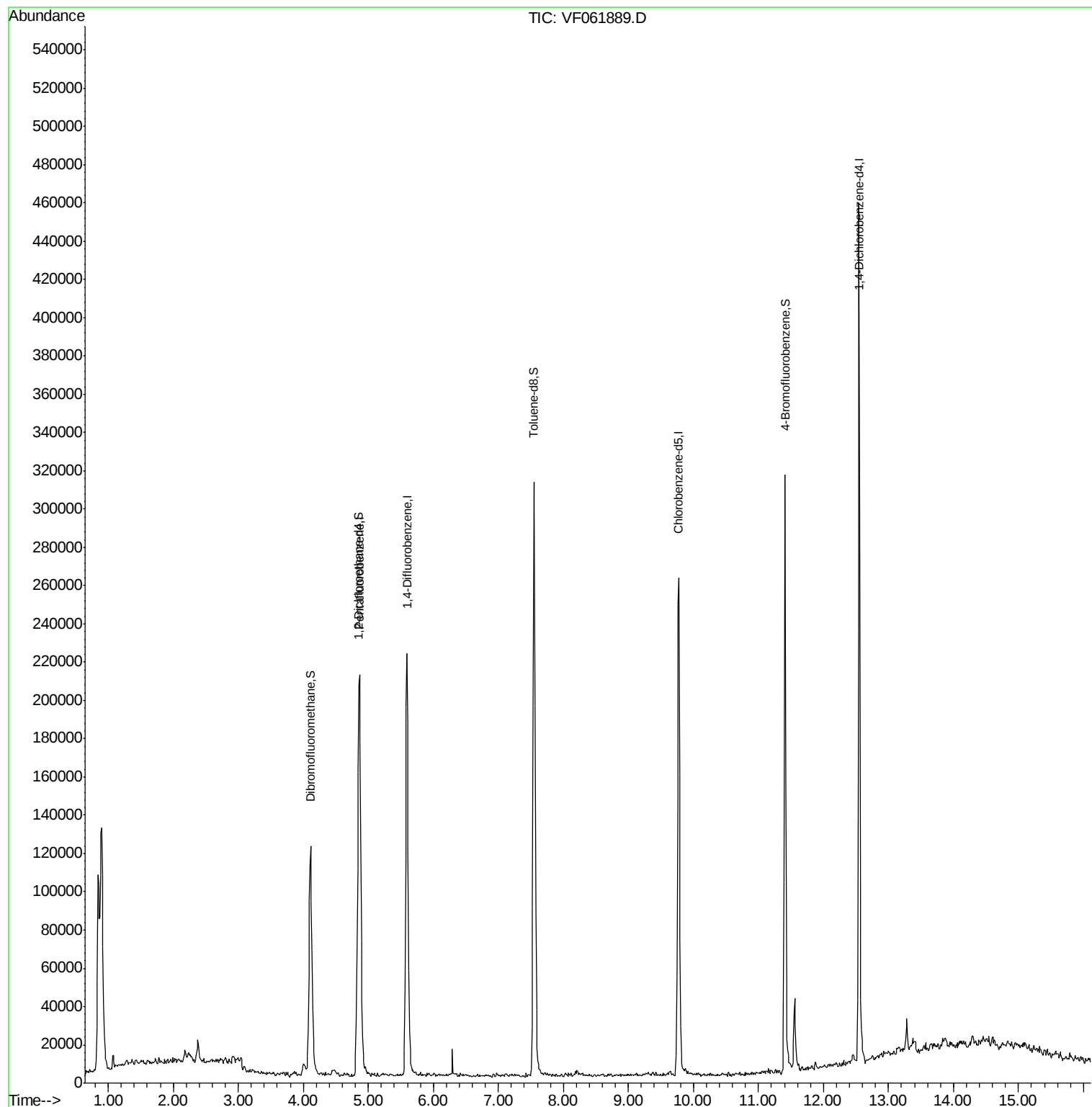
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

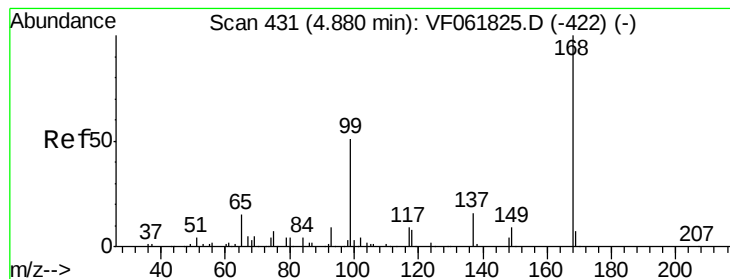
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 05 04:50:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061889.D

Acq: 11 Mar 2019 15:02

Instrument :

MSVOA\_F

ClientSampleId :

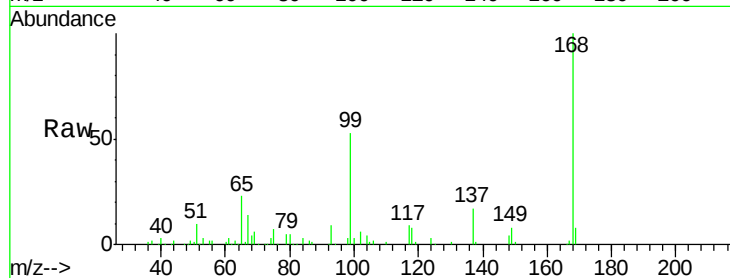
TP-25

Tot Ion:168 Resp: 180664

Ion Ratio Lower Upper

168 100

99 53.4 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

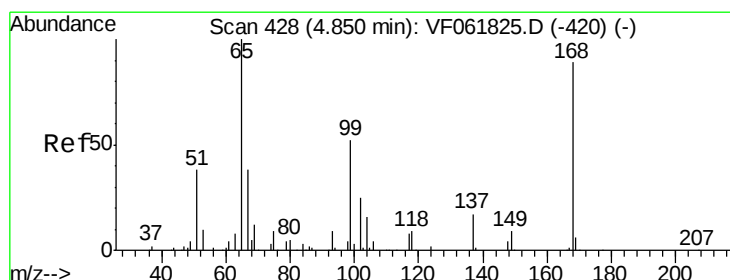
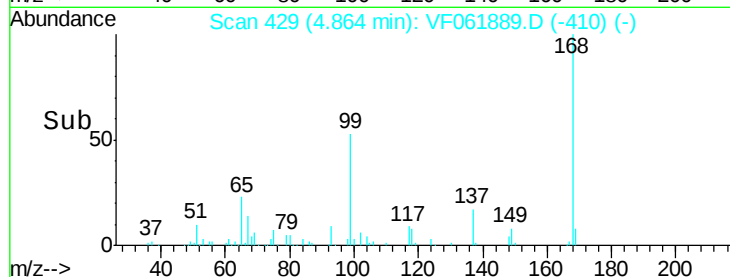
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#33

1,2-Dichloroethane-d4

Concen: 63.506 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061889.D

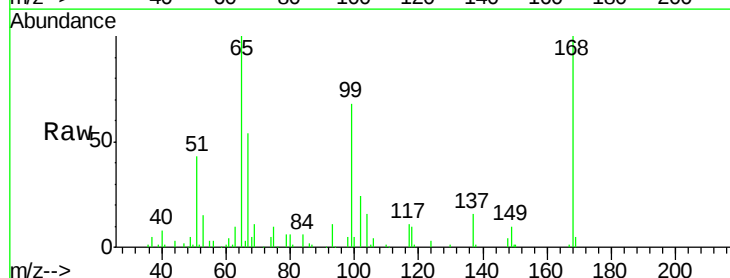
Acq: 11 Mar 2019 15:02

Tgt Ion: 65 Resp: 83554

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.84

30000

25000

20000

15000

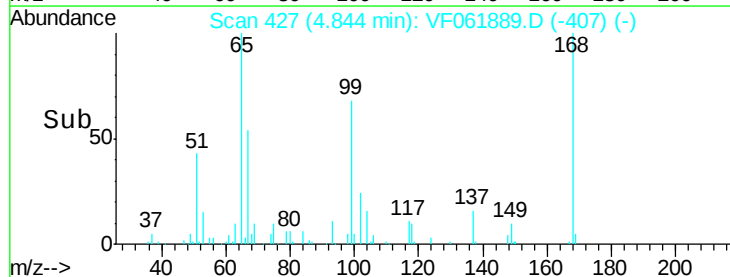
10000

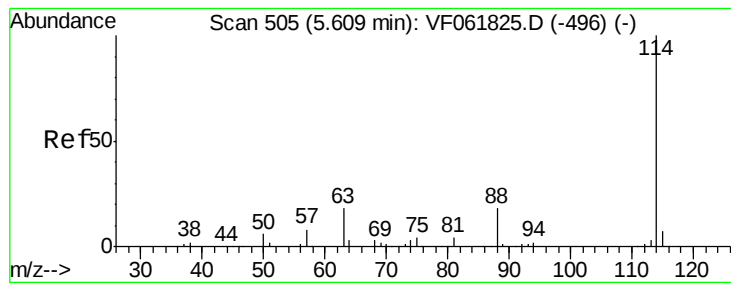
5000

0

Time-->

4.70 4.80 4.90 5.00





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061889.D

Acq: 11 Mar 2019 15:02

Instrument :

MSVOA\_F

ClientSampleId :

TP-25

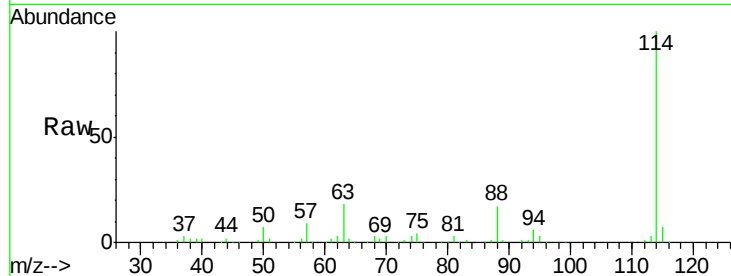
Tot Ion:114 Resp: 270671

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

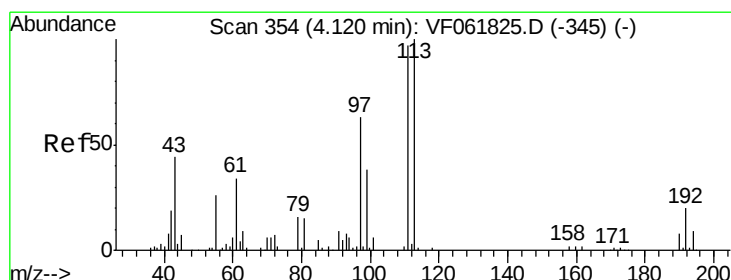
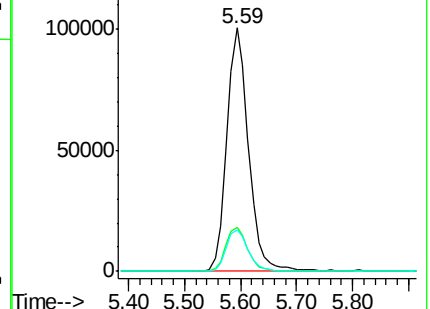
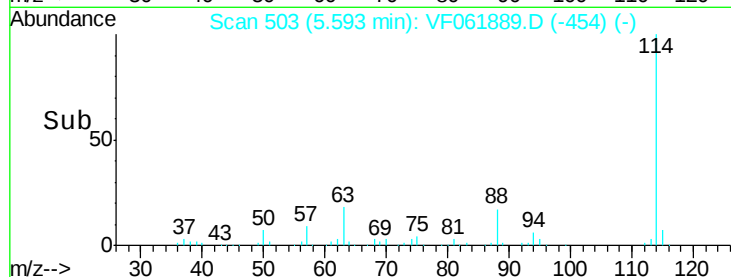
88 17.2 0.0 35.6



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: 62.785 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061889.D

Acq: 11 Mar 2019 15:02

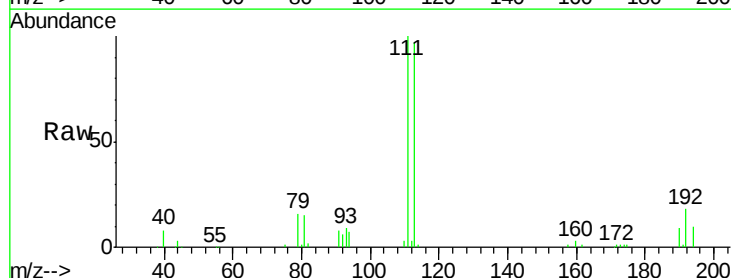
Tgt Ion:113 Resp: 118597

Ion Ratio Lower Upper

113 100

111 102.8 77.6 116.4

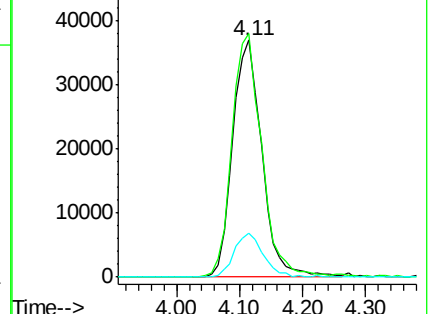
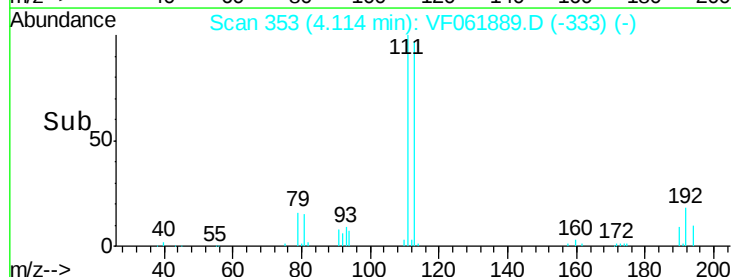
192 18.4 15.9 23.9

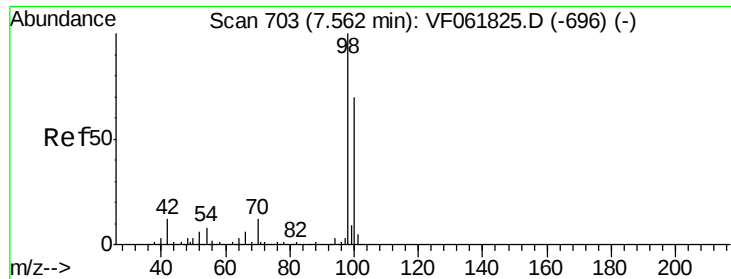


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 51.667 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061889.D

Acq: 11 Mar 2019 15:02

Instrument :

MSVOA\_F

ClientSampleId :

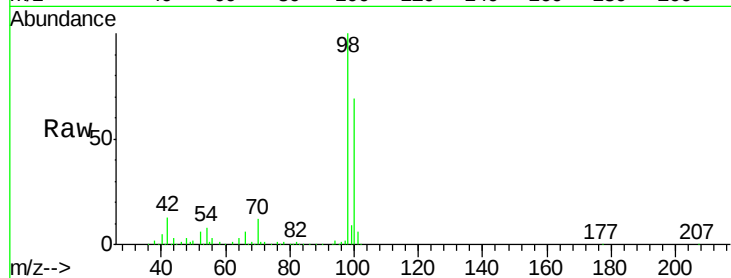
TP-25

Tot Ion: 98 Resp: 290085

Ion Ratio Lower Upper

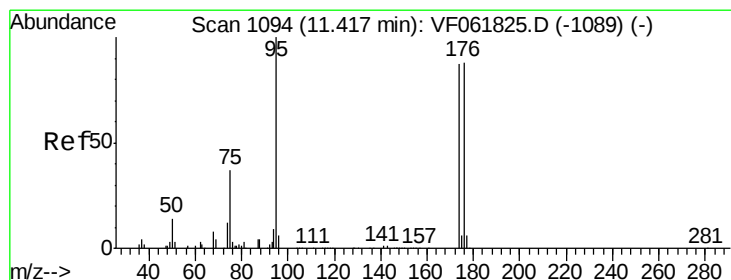
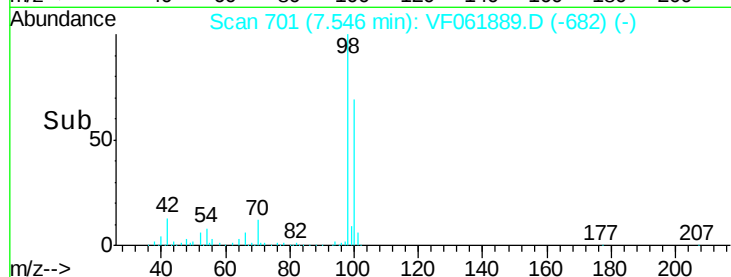
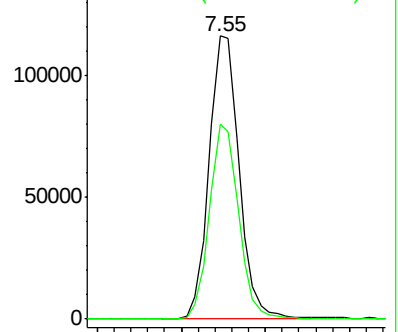
98 100

100 68.8 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#62

4-Bromofluorobenzene

Concen: 57.996 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061889.D

Acq: 11 Mar 2019 15:02

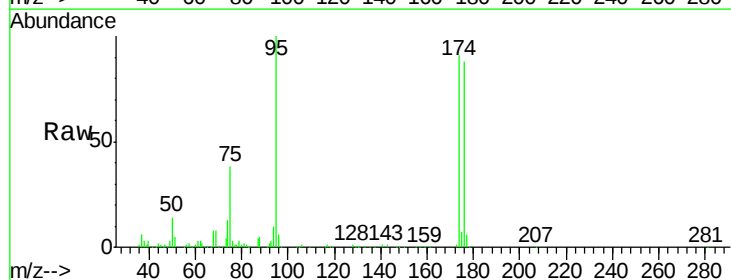
Tgt Ion: 95 Resp: 127553

Ion Ratio Lower Upper

95 100

174 91.0 0.0 174.0

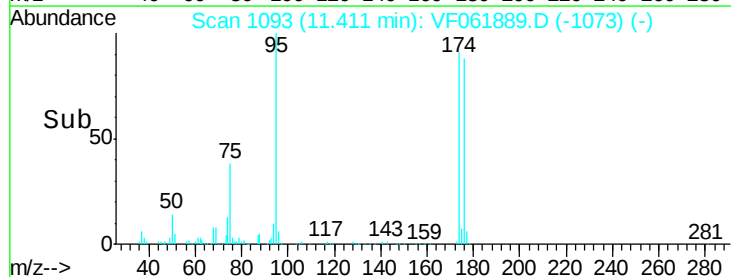
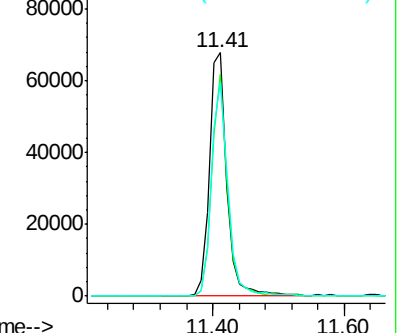
176 88.0 0.0 175.2

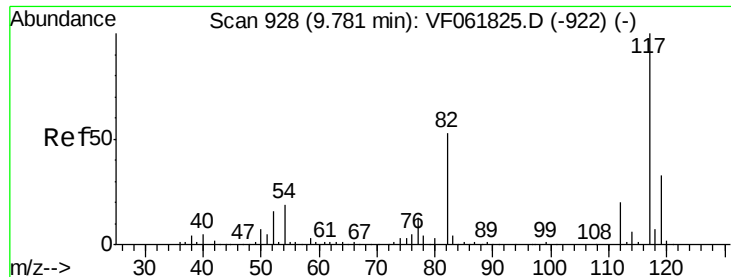


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

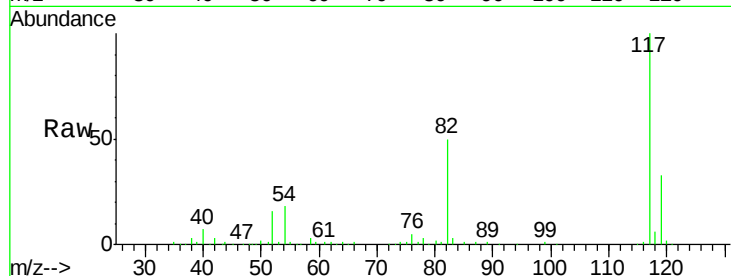




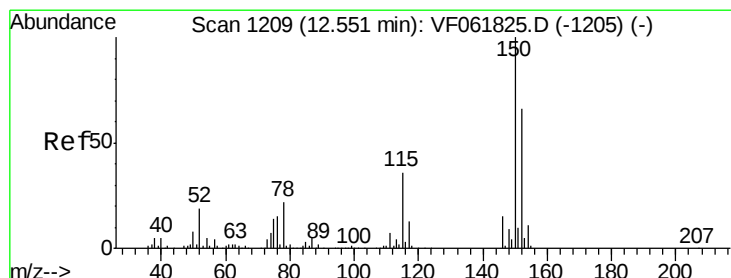
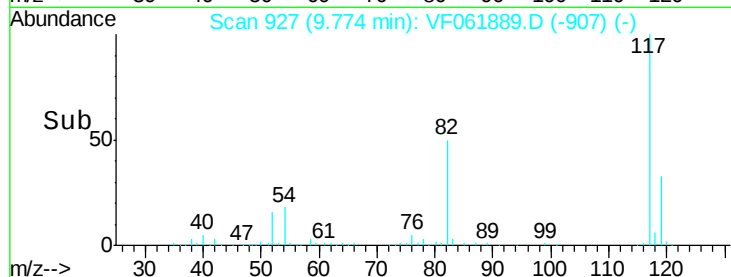
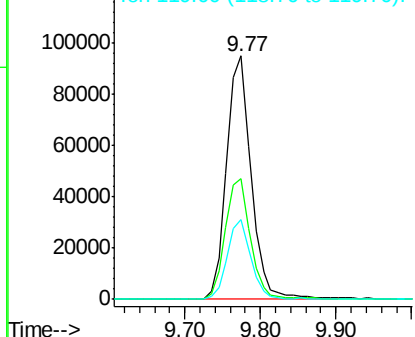
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.77 min Scan# 927  
Delta R.T. -0.01 min  
Lab File: VF061889.D  
Acq: 11 Mar 2019 15:02

Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-25

Tot Ion:117 Resp: 213860  
Ion Ratio Lower Upper  
117 100  
82 49.6 42.6 63.8  
119 32.7 26.0 39.0

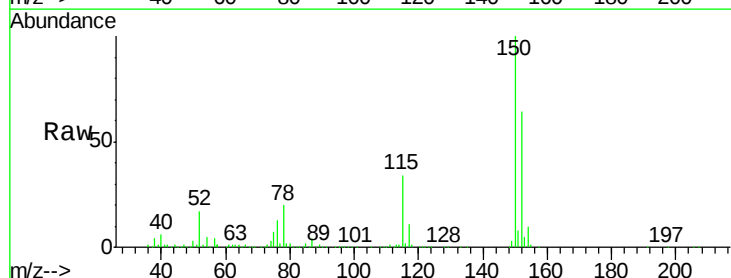


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: VF061889.D  
Acq: 11 Mar 2019 15:02

Tgt Ion:152 Resp: 125195  
Ion Ratio Lower Upper  
152 100  
115 53.4 27.7 83.1  
150 156.8 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

