

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\  
 Data File : VF061009.D  
 Acq On : 12 Dec 2018 21:38  
 Operator : VA/AP  
 Sample : J6316-07  
 Misc : 4.91g/5mL/MSVOA-F/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 BORING-SAMPLE-CBH-591

Manual Integrations  
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Quant Time: Dec 13 02:57:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 4.85  | 168  | 235342   | 50.00  | ug/l   | -0.06    |
| 34) 1,4-Difluorobenzene     | 5.58  | 114  | 390582   | 50.00  | ug/l   | -0.06    |
| 63) Chlorobenzene-d5        | 9.77  | 117  | 331206   | 50.00  | ug/l   | -0.05    |
| 72) 1,4-Dichlorobenzene-d4  | 12.55 | 152  | 154777   | 50.00  | ug/l   | -0.03    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 111941   | 40.38  | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 80.76% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 134965   | 43.56  | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 87.12% |          |
| 50) Toluene-d8              | 7.55  | 98   | 305366   | 33.46  | ug/l   | -0.05    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 66.92% |          |
| 62) 4-Bromofluorobenzene    | 11.40 | 95   | 138738   | 33.44  | ug/l   | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 66.88% |          |
| Target Compounds            |       |      |          |        |        |          |
| 16) Acetone                 | 2.23  | 43   | 15281    | 29.890 | ug/l # | 92       |
| 20) Methylene Chloride      | 2.25  | 84   | 11286m   | 6.017  | ug/l   |          |
| 52) Toluene                 | 7.62  | 92   | 17118    | 2.546  | ug/l   | 91       |

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

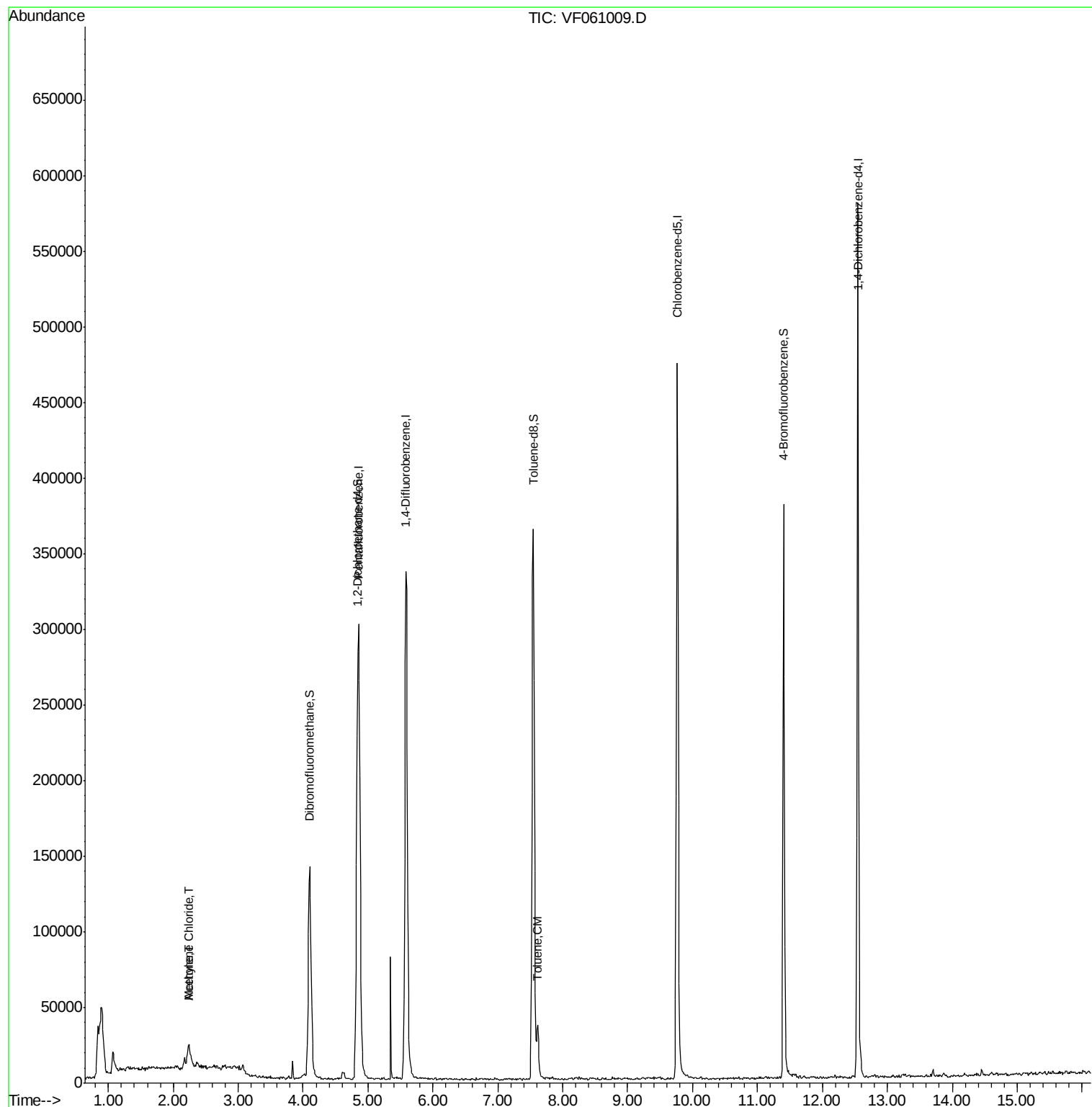
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121218\  
Data File : VF061009.D  
Acq On : 12 Dec 2018 21:38  
Operator : VA/AP  
Sample : J6316-07  
Misc : 4.91q/5mL/MSVOA-F/SOIL  
ALS Vial : 15 Sample Multiplier: 1

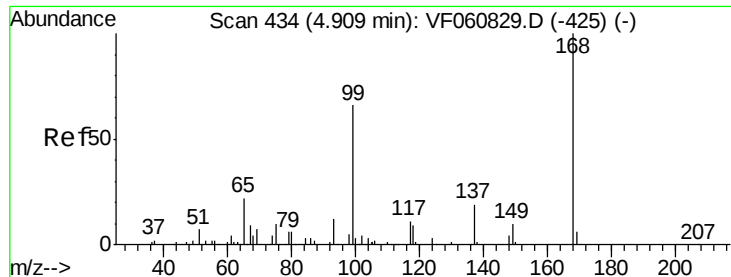
Instrument :  
MSVOA\_F  
ClientSampleId :  
BORING-SAMPLE-CBH-591

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Quant Time: Dec 13 02:57:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

Instrument :

MSVOA\_F

ClientSampleId :

BORING-SAMPLE-CBH-591

Tot Ion:168 Resp: 235342

Ion Ratio Lower Upper

168 100

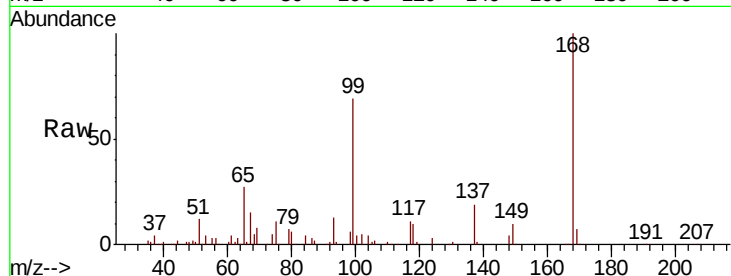
99 68.6 52.6 79.0

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

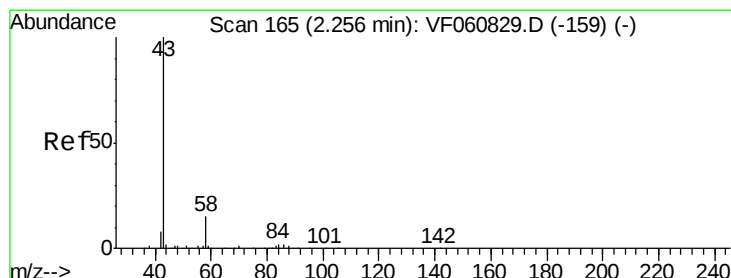
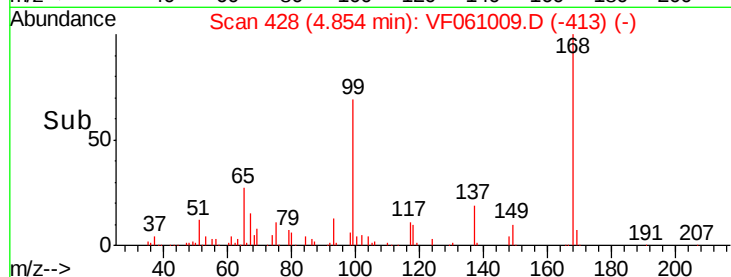
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#16

Acetone

Concen: 29.890 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061009.D

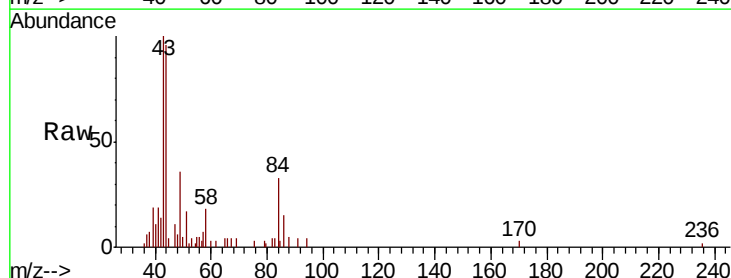
Acq: 12 Dec 2018 21:38

Tgt Ion: 43 Resp: 15281

Ion Ratio Lower Upper

43 100

58 17.7 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.23

5000

4000

3000

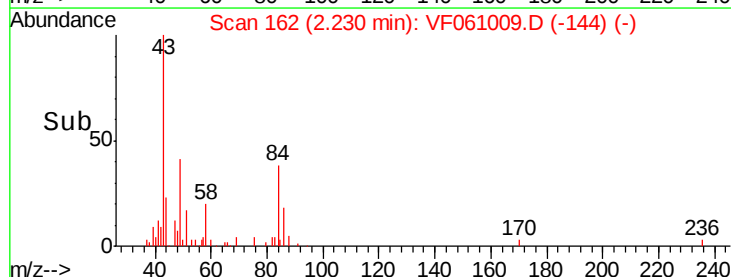
2000

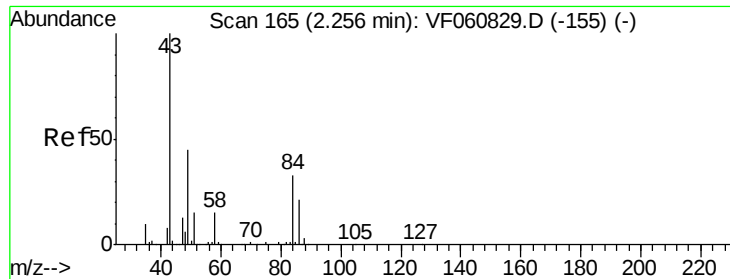
1000

0

2.10 2.20 2.30

Time-->





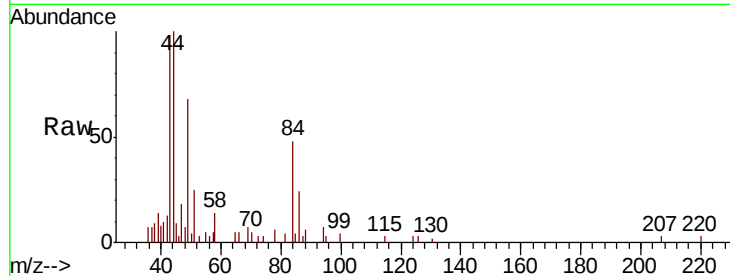
#20  
Methvlene Chloride  
Concen: 6.017 ug/l m  
RT: 2.25 min Scan# 164  
Delta R.T. -0.01 min  
Lab File: VF061009.D  
Acq: 12 Dec 2018 21:38

Instrument :  
MSVOA\_F  
ClientSampleId :  
BORING-SAMPLE-CBH-591

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 142.1 | 111.3 | 166.9 |
| 51      | 53.1  | 38.0  | 57.0  |
| 86      | 50.8  | 49.8  | 74.8  |

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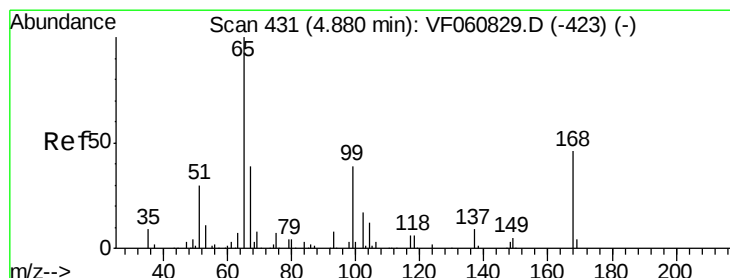
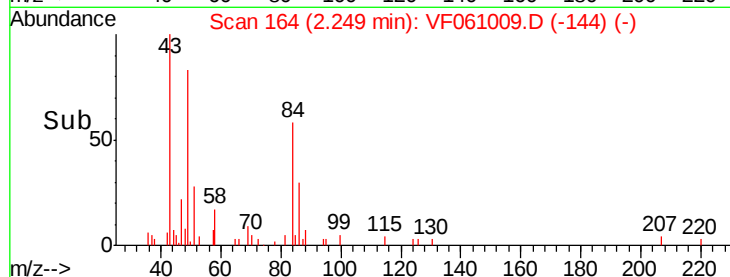
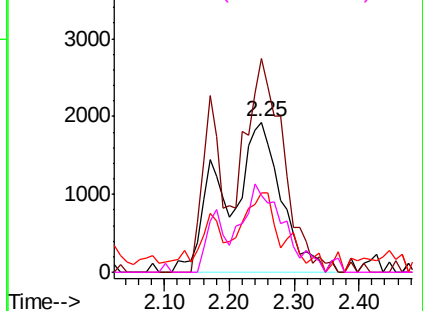
Abundance

Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

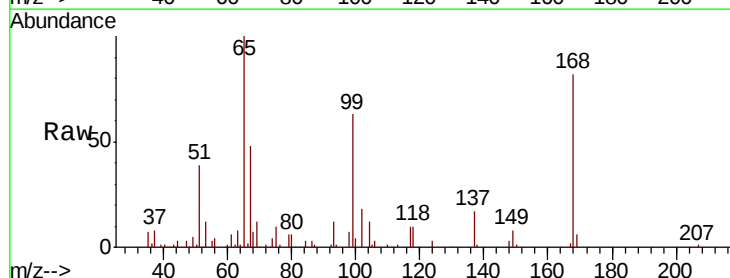
Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#33  
1,2-Dichloroethane-d4  
Concen: 40.377 ug/l  
RT: 4.83 min Scan# 426  
Delta R.T. -0.05 min  
Lab File: VF061009.D  
Acq: 12 Dec 2018 21:38

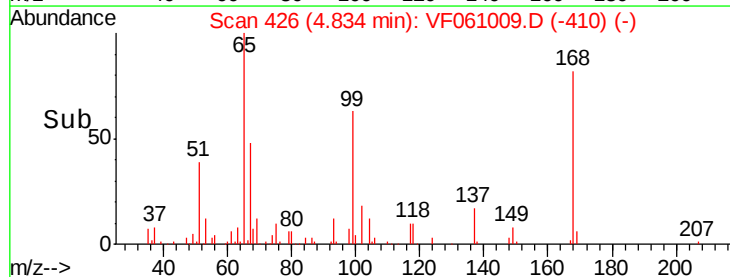
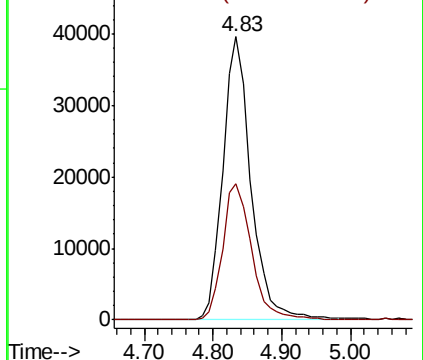
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 48.3  | 0.0   | 96.4  |

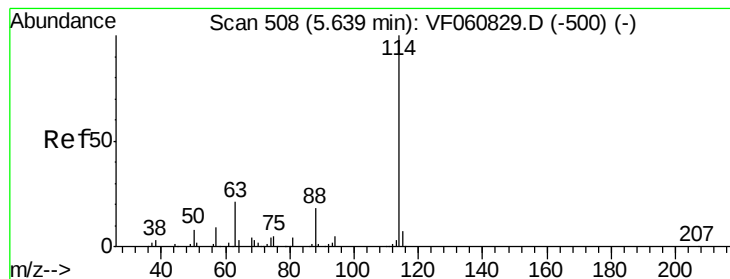


Abundance

Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

Instrument :

MSVOA\_F

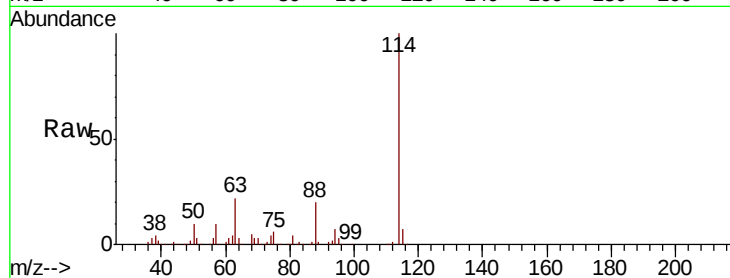
ClientSampleId :

BORING-SAMPLE-CBH-591

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 390582 |       |       |
| 63      | 21.7  |        | 0.0   | 41.6  |
| 88      | 19.9  |        | 0.0   | 36.6  |

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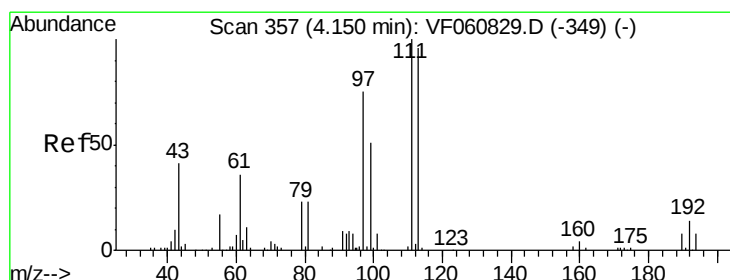
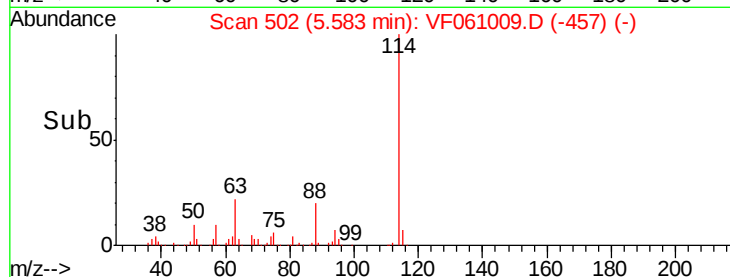
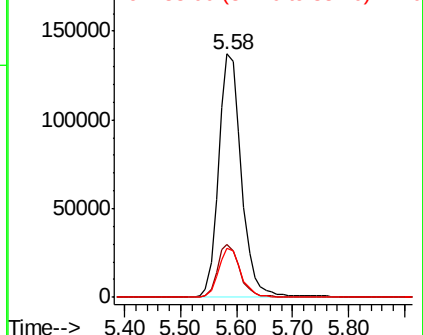
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 43.557 ug/l

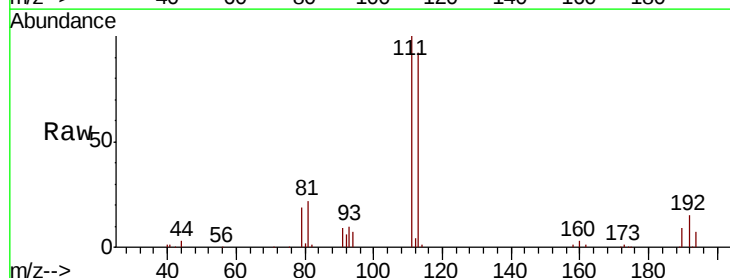
RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

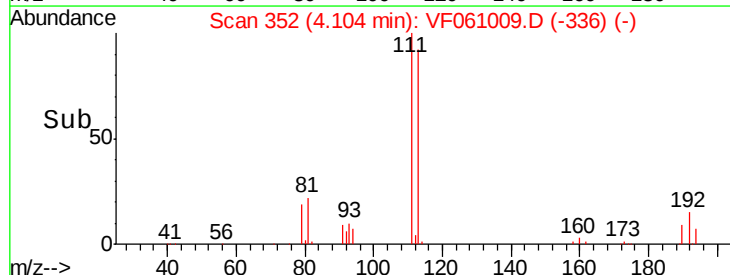
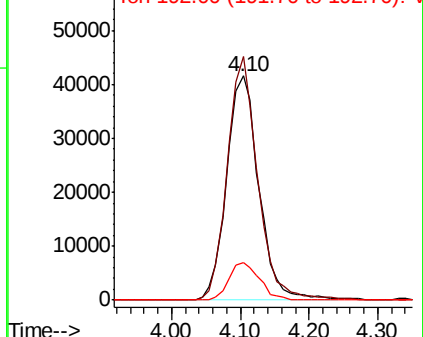
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 134965 |       |       |
| 111     | 108.6 |        | 83.0  | 124.6 |
| 192     | 16.6  |        | 12.3  | 18.5  |

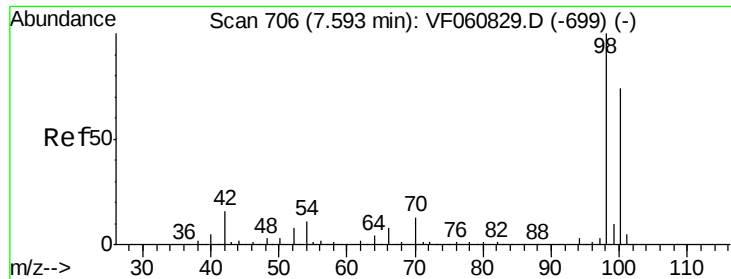


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





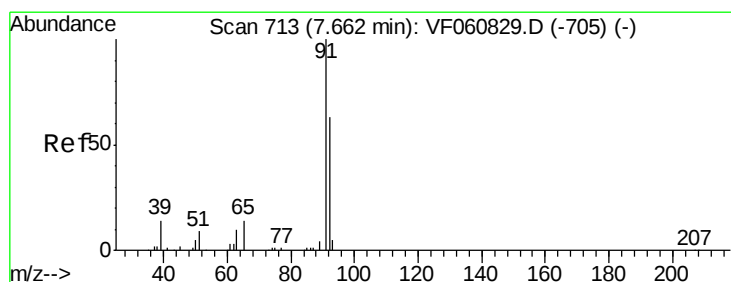
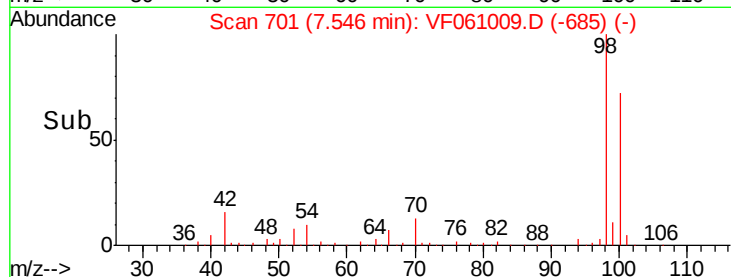
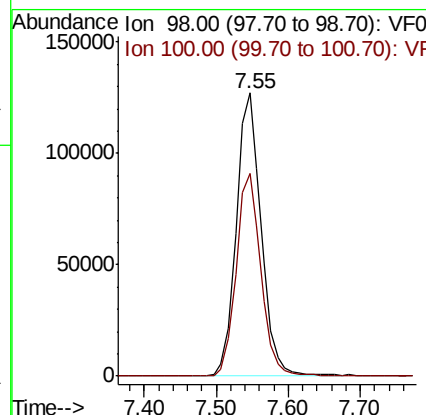
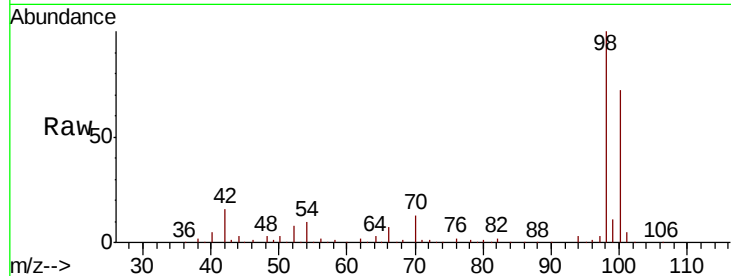
#50  
Toluene-d8  
Concen: 33.456 ug/l  
RT: 7.55 min Scan# 701  
Delta R.T. -0.05 min  
Lab File: VF061009.D  
Acq: 12 Dec 2018 21:38

Instrument :  
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ClientSampleId :  
BORING-SAMPLE-CBH-591

Tot Ion: 98 Resp: 305366  
Ion Ratio Lower Upper  
98 100  
100 71.8 59.3 88.9

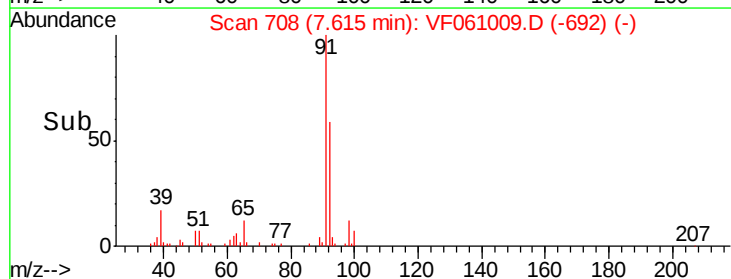
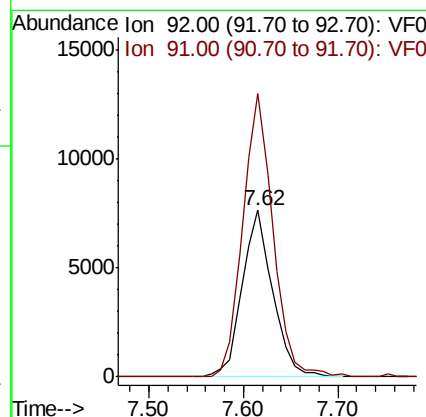
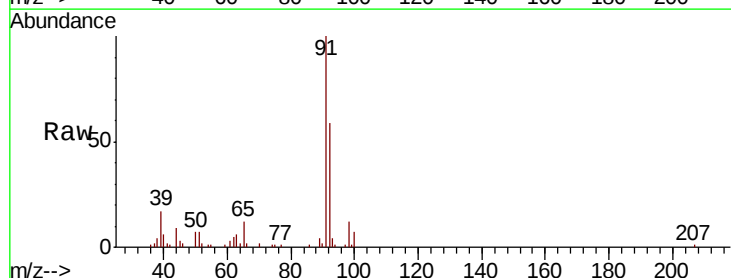
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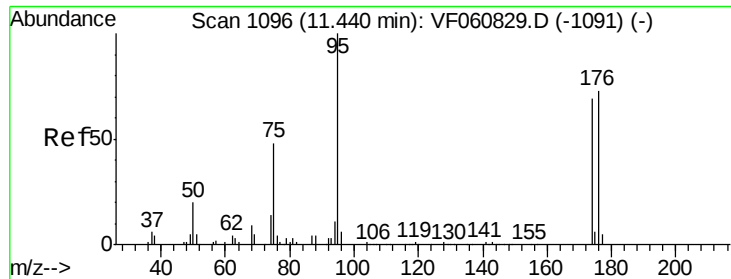
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#52  
Toluene  
Concen: 2.546 ug/l  
RT: 7.62 min Scan# 708  
Delta R.T. -0.05 min  
Lab File: VF061009.D  
Acq: 12 Dec 2018 21:38

Tgt Ion: 92 Resp: 17118  
Ion Ratio Lower Upper  
92 100  
91 169.9 126.2 189.2





#62

4-Bromofluorobenzene

Concen: 33.444 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

Instrument :

MSVOA\_F

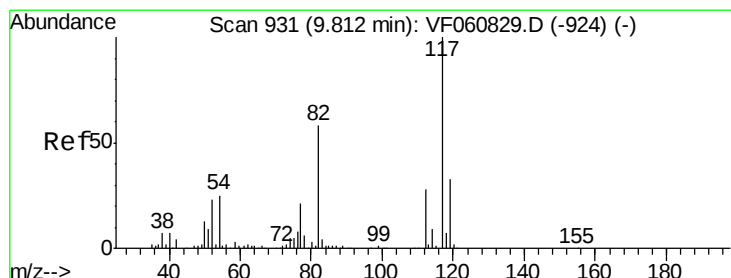
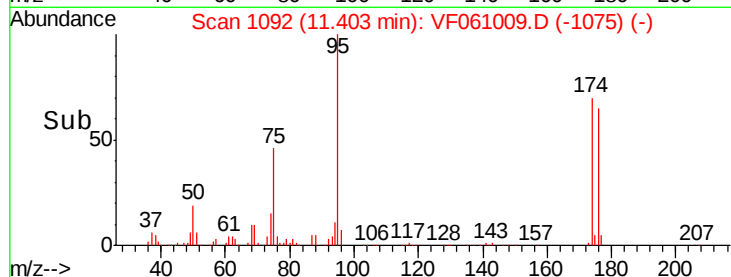
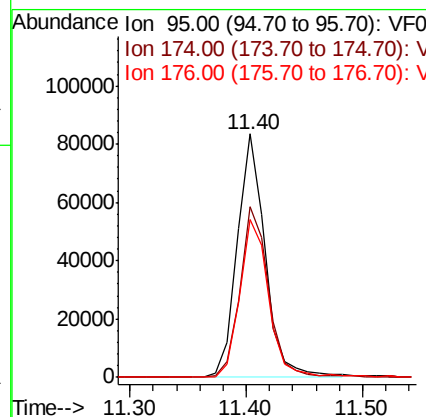
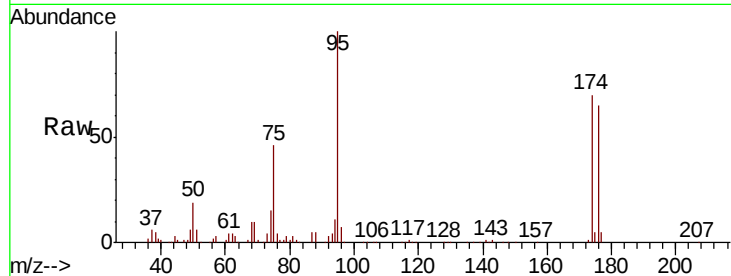
ClientSampleId :

BORING-SAMPLE-CBH-591

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 138738 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 70.1  | 0.0   | 138.2  |
| 176       | 65.1  | 0.0   | 146.2  |

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

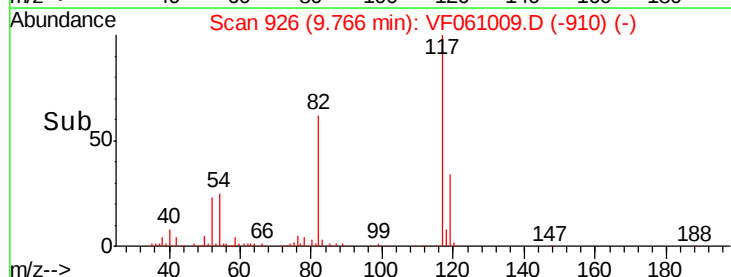
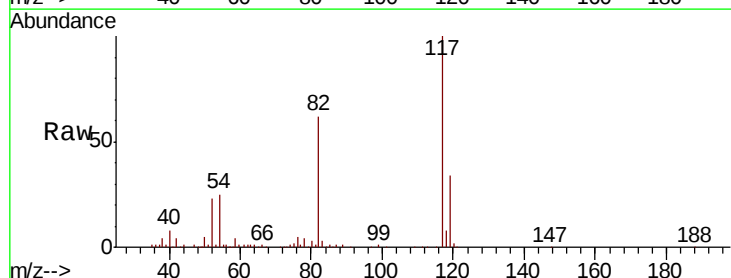
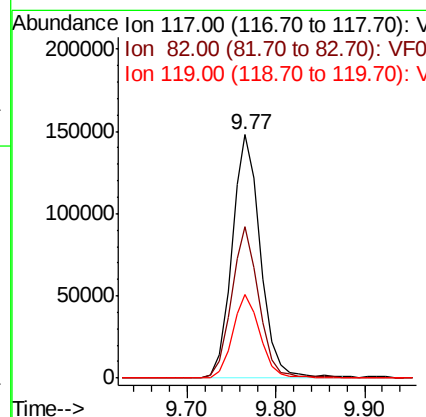
RT: 9.77 min Scan# 926

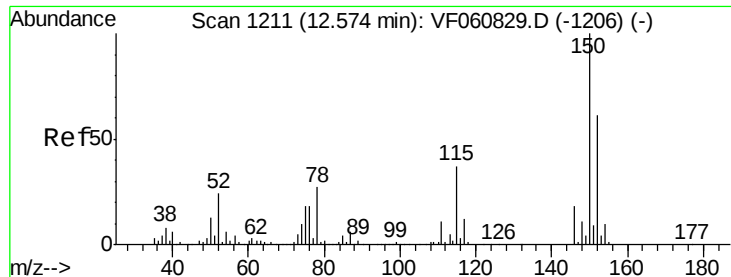
Delta R.T. -0.05 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 331206 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 62.2  | 46.6  | 69.8   |
| 119       | 34.3  | 26.4  | 39.6   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF061009.D

Acq: 12 Dec 2018 21:38

Instrument :

MSVOA\_F

ClientSampleId :

BORING-SAMPLE-CBH-591

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 154777 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 57.2  | 30.1  | 90.5   |
| 150       | 147.5 | 0.0   | 327.6  |

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