

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\  
 Data File : VF060903.D  
 Acq On : 3 Dec 2018 20:46  
 Operator : VA/AP  
 Sample : J6148-03  
 Misc : 5.35g/5mL/MSVOA-F/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-MH-J

Manual Integrations  
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Quant Time: Dec 04 04:10:33 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       | 4.90  | 168  | 171715   | 50.00 | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene     | 5.62  | 114  | 295522   | 50.00 | ug/l   | -0.02    |
| 63) Chlorobenzene-d5        | 9.80  | 117  | 244352   | 50.00 | ug/l   | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.56 | 152  | 93773    | 50.00 | ug/l   | -0.01    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 4.87  | 65   | 98396    | 48.64 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.28% |          |
| 35) Dibromofluoromethane    | 4.13  | 113  | 113289   | 48.32 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.64% |          |
| 50) Toluene-d8              | 7.57  | 98   | 271546   | 39.32 | ug/l   | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 78.64% |          |
| 62) 4-Bromofluorobenzene    | 11.43 | 95   | 109278   | 34.82 | ug/l   | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =     | 69.64% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 2.20  | 84   | 7792m    | 5.694 | ug/l   | Qvalue   |

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

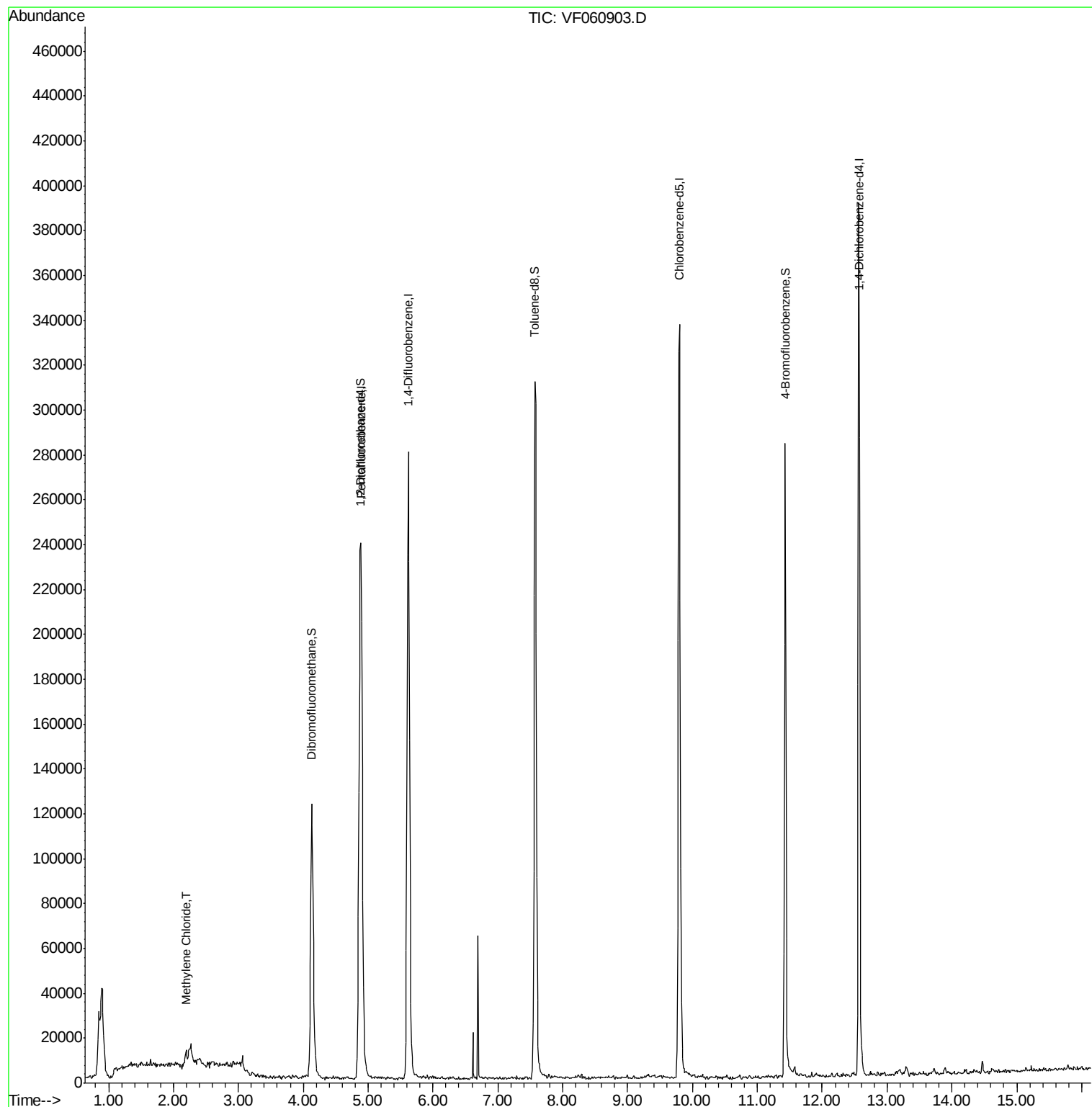
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF120318\  
Data File : VF060903.D  
Acq On : 3 Dec 2018 20:46  
Operator : VA/AP  
Sample : J6148-03  
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ALS Vial : 18 Sample Multiplier: 1

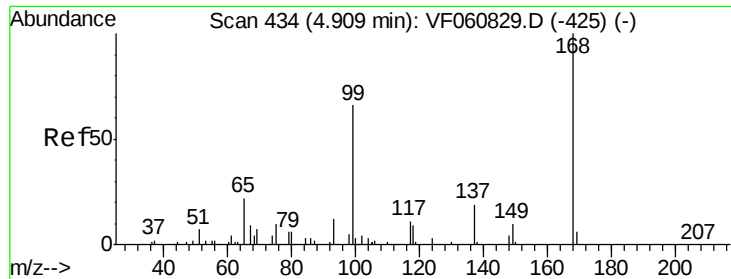
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-MH-J

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Quant Time: Dec 04 04:10:33 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: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060903.D

Acq: 3 Dec 2018 20:46

Instrument :

MSVOA\_F

ClientSampleId :

TP-MH-J

Tot Ion:168 Resp: 171715

Ion Ratio Lower Upper

168 100

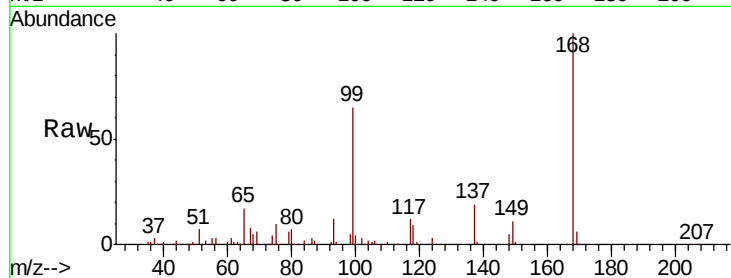
99 64.8 52.6 79.0

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

50000

40000

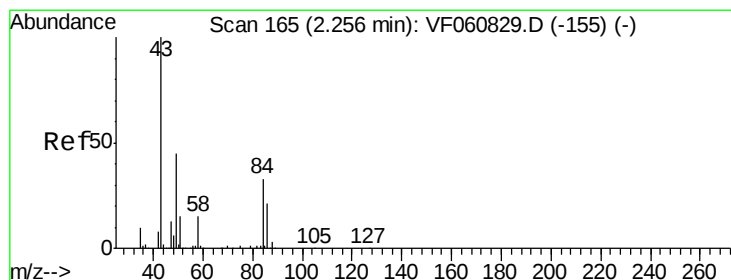
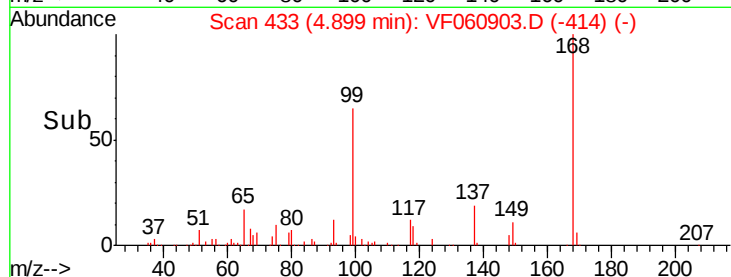
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#20

Methylene Chloride

Concen: 5.694 ug/l m

RT: 2.20 min Scan# 159

Delta R.T. -0.06 min

Lab File: VF060903.D

Acq: 3 Dec 2018 20:46

Tgt Ion: 84 Resp: 7792

Ion Ratio Lower Upper

84 100

49 115.2 111.3 166.9

51 33.2 38.0 57.0#

86 52.8 49.8 74.8

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

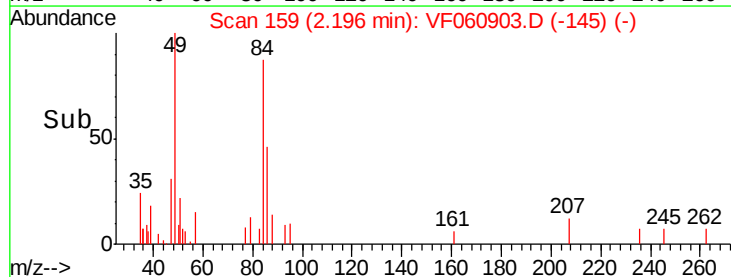
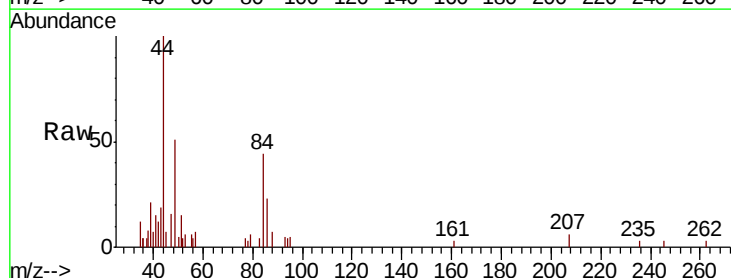
3000

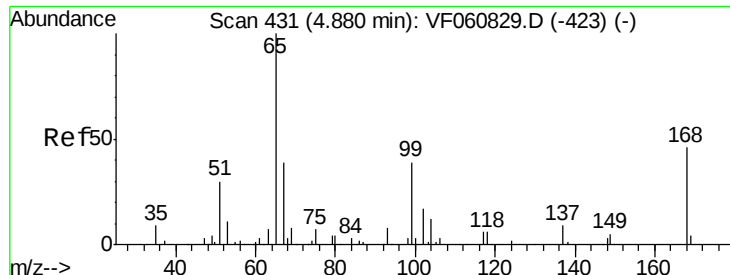
2000

1000

0

Time--> 2.10 2.20 2.30 2.40





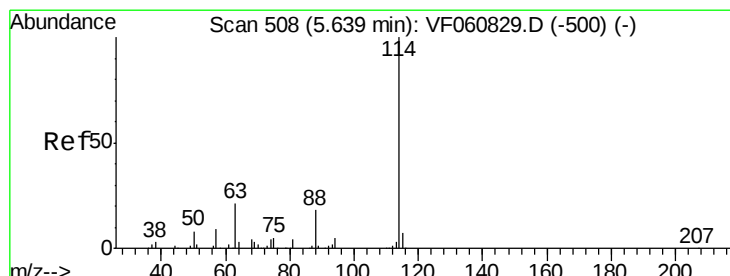
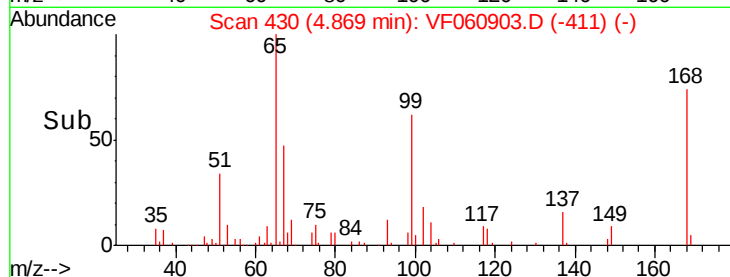
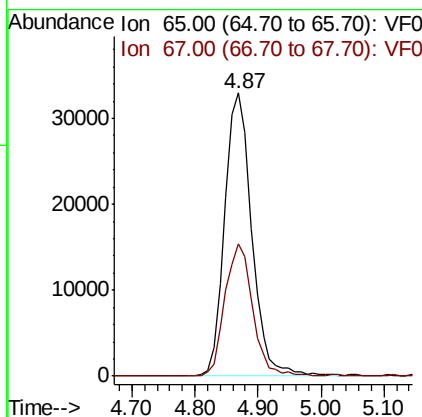
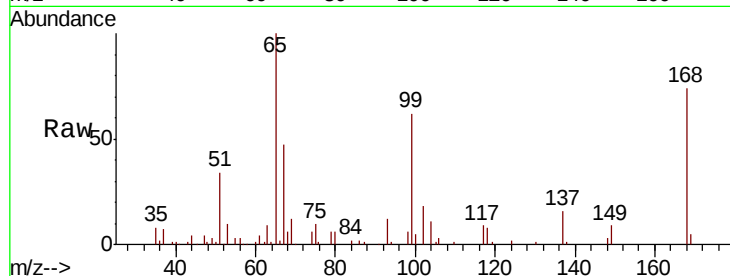
#33  
 1,2-Dichloroethane-d4  
 Concen: 48.642 ug/l  
 RT: 4.87 min Scan# 430  
 Delta R.T. -0.01 min  
 Lab File: VF060903.D  
 Acq: 3 Dec 2018 20:46

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 TP-MH-J

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 65      | 100   | 98396 |       |       |
| 67      | 47.0  | 0.0   | 96.4  |       |

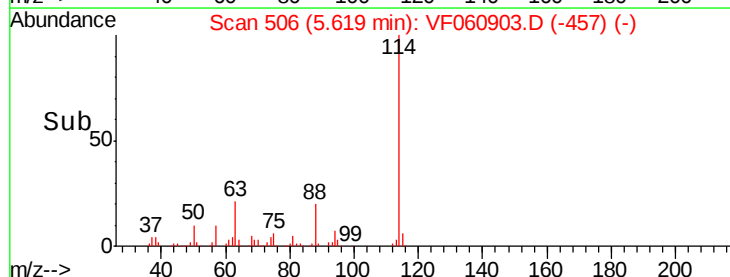
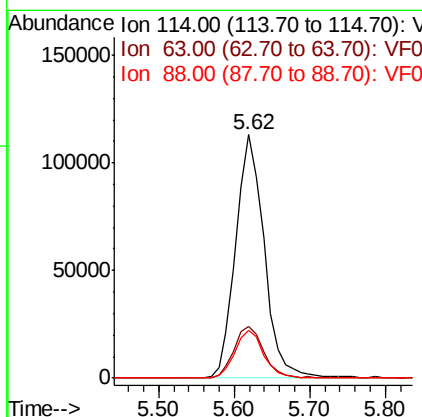
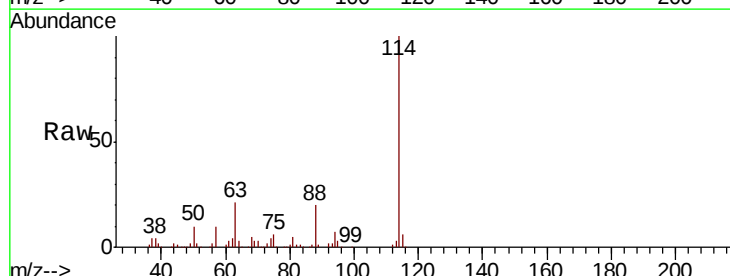
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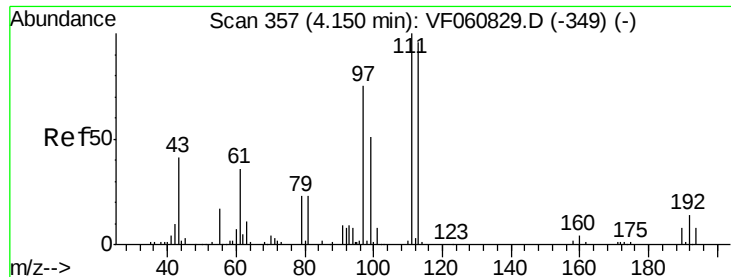
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.62 min Scan# 506  
 Delta R.T. -0.02 min  
 Lab File: VF060903.D  
 Acq: 3 Dec 2018 20:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 295522 |       |       |
| 63      | 21.2  | 0.0    | 41.6  |       |
| 88      | 19.6  | 0.0    | 36.6  |       |





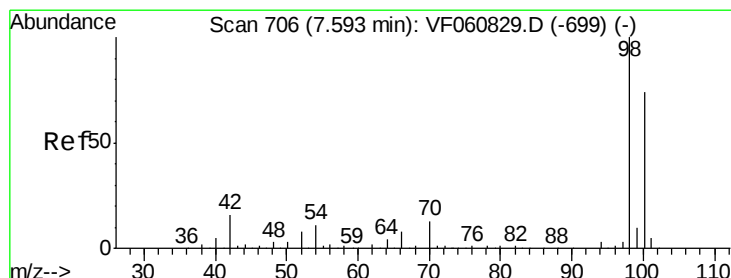
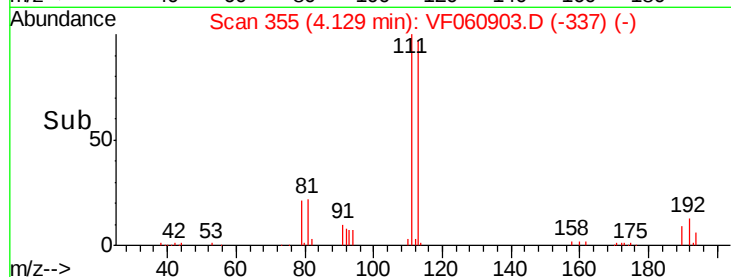
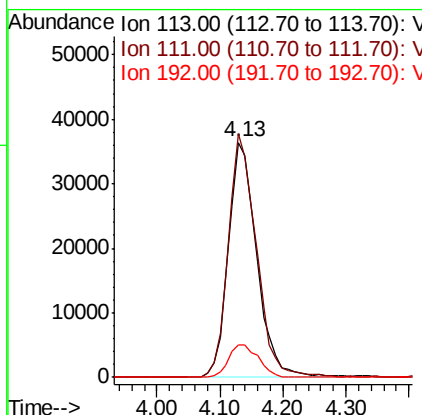
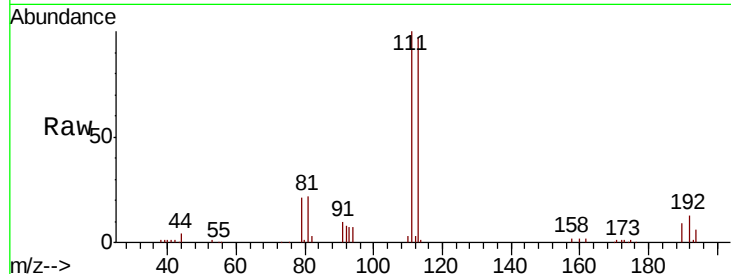
#35  
 Dibromofluoromethane  
 Concen: 48.322 ug/l  
 RT: 4.13 min Scan# 355  
 Delta R.T. -0.02 min  
 Lab File: VF060903.D  
 Acq: 3 Dec 2018 20:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-MH-J

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 83.0  | 124.6 |
| 192     | 13.9  | 12.3  | 18.5  |

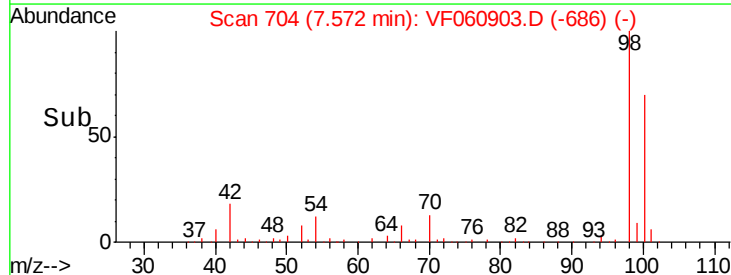
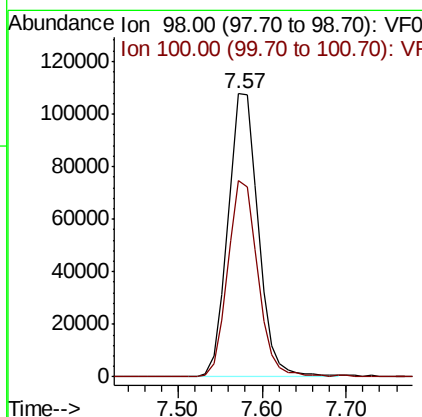
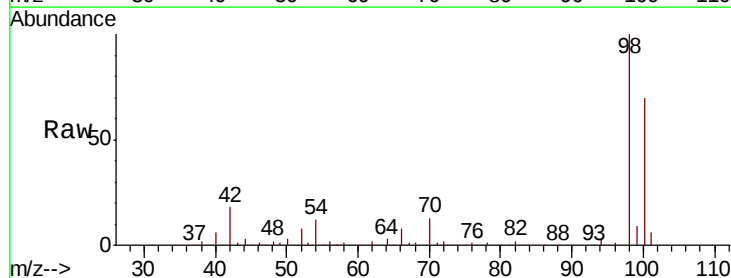
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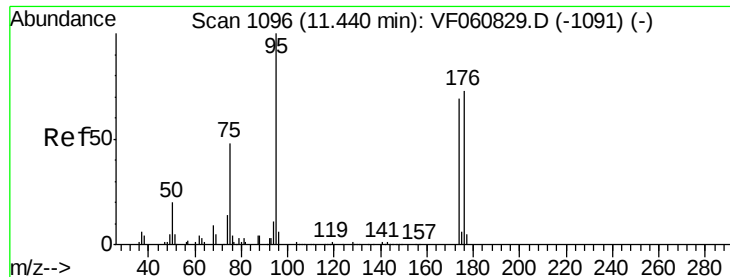
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#50  
 Toluene-d8  
 Concen: 39.320 ug/l  
 RT: 7.57 min Scan# 704  
 Delta R.T. -0.02 min  
 Lab File: VF060903.D  
 Acq: 3 Dec 2018 20:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 69.5  | 59.3  | 88.9  |





#62

4-Bromofluorobenzene

Concen: 34.816 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060903.D

Acq: 3 Dec 2018 20:46

Instrument :

MSVOA\_F

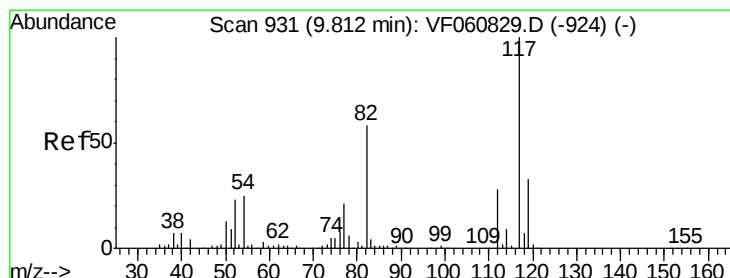
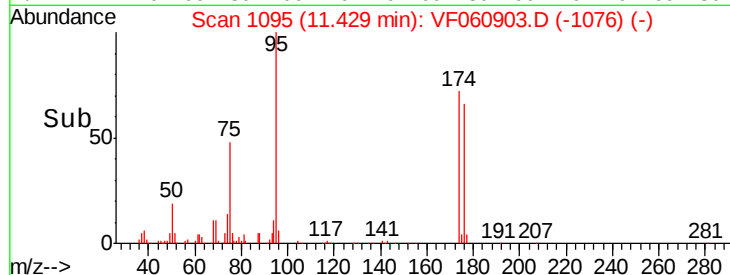
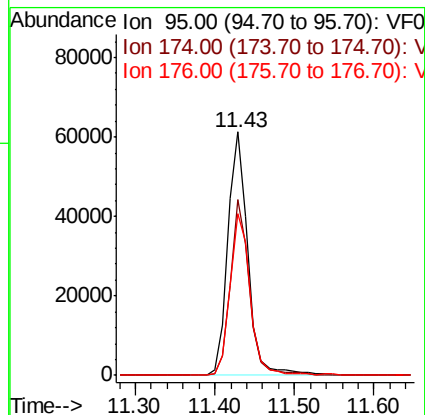
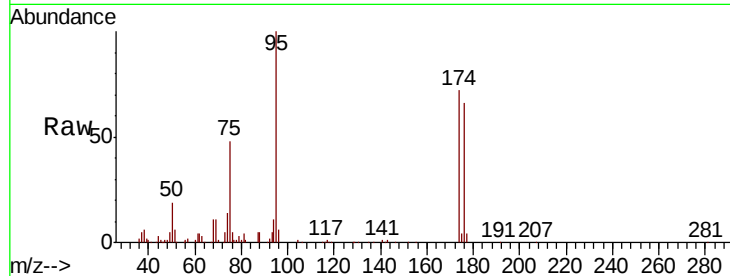
ClientSampled :

TP-MH-J

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 109278 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 72.4  | 0.0   | 138.2  |
| 176       | 66.4  | 0.0   | 146.2  |

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

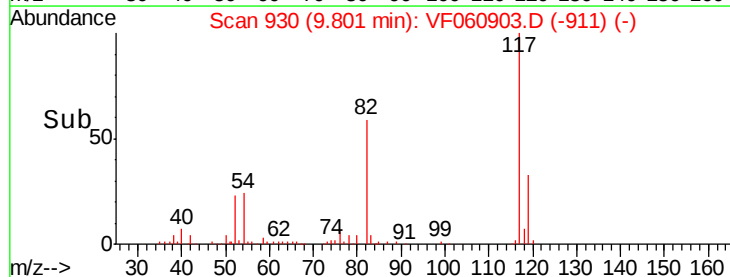
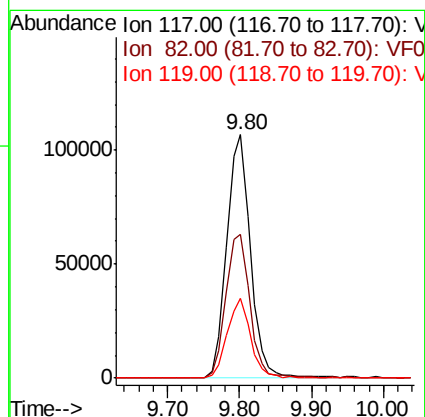
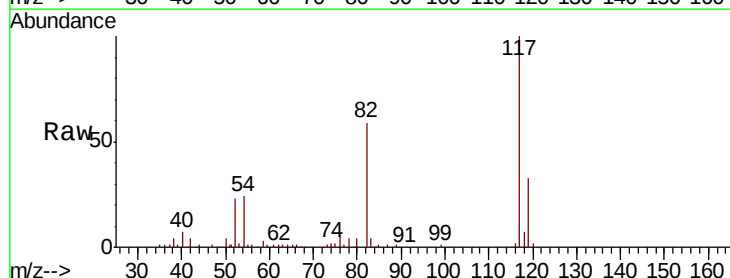
RT: 9.80 min Scan# 930

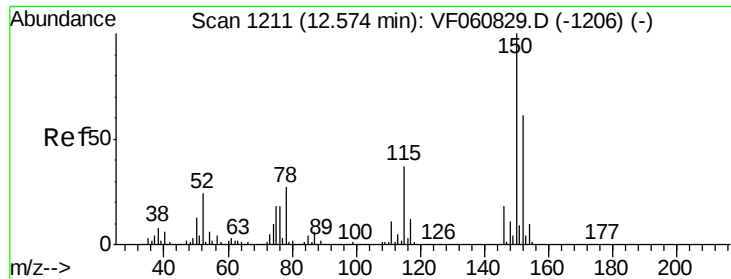
Delta R.T. -0.01 min

Lab File: VF060903.D

Acq: 3 Dec 2018 20:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 244352 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 59.3  | 46.6  | 69.8   |
| 119       | 32.7  | 26.4  | 39.6   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060903.D

Acq: 3 Dec 2018 20:46

Instrument :

MSVOA\_F

ClientSampleId :

TP-MH-J

Tot Ion:152 Resp: 93773

Ion Ratio Lower Upper

152 100

115 65.9 30.1 90.5

150 157.6 0.0 327.6

Manual Integrations

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