

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF061818\  
 Data File : VF059182.D  
 Acq On : 18 Jun 2018 18:16  
 Operator : VA/AP  
 Sample : J3567-07  
 Misc : 5.31g/5mL/MSVOA-F/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-5-D

Quant Time: Jun 19 02:57:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 10:52:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.03  | 168  | 258745   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.75  | 114  | 405287   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 391004   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 226568   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.02  | 65   | 201887   | 64.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 128.68% |          |
| 35) Dibromofluoromethane    | 4.29  | 113  | 174852   | 61.49 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 122.98% |          |
| 50) Toluene-d8              | 7.71  | 98   | 424976   | 50.87 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.74% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 210543   | 49.13 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.26%  |          |

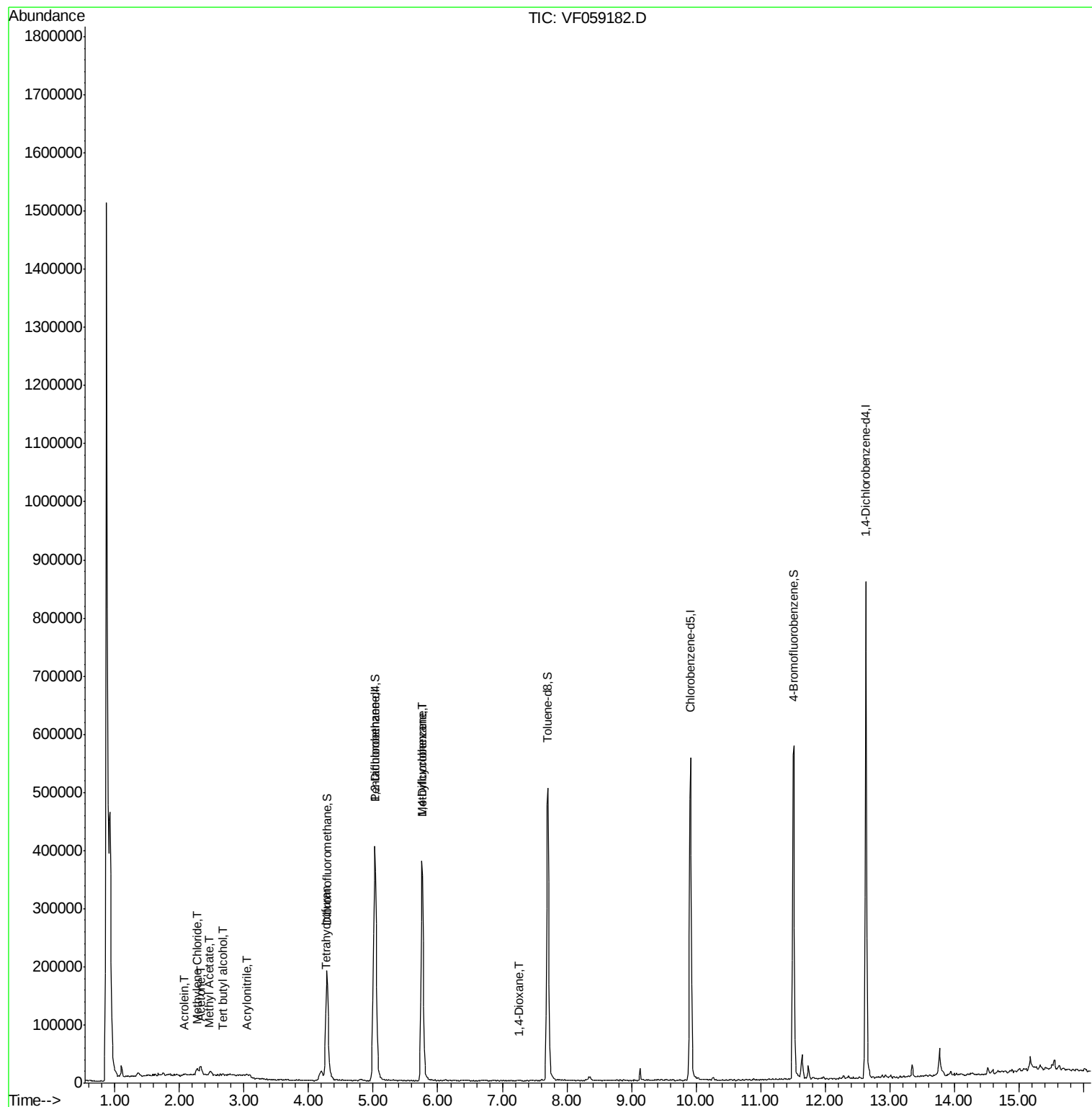
| Target Compounds       | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol | 2.69  | 59   | 1368     | 6.804     | ug/l # | 1      |
| 13) Acrolein           | 2.06  | 56   | 296      | 1.701     | ug/l   | 97     |
| 15) Acrylonitrile      | 3.05  | 53   | 748      | 1.873     | ug/l # | 25     |
| 16) Acetone            | 2.33  | 43   | 18325    | 24.458    | ug/l   | 97     |
| 18) Methyl Acetate     | 2.46  | 43   | 3678     | 2.856     | ug/l # | 89     |
| 20) Methylene Chloride | 2.28  | 84   | 4052     | 2.259     | ug/l # | 77     |
| 29) Tetrahydrofuran    | 4.26  | 42   | 1288     | 2.516     | ug/l # | 68     |
| 39) Methylcyclohexane  | 5.75  | 83   | 4816     | 1.203     | ug/l # | 40     |
| 49) 1,4-Dioxane        | 7.26  | 88   | 95       | 18.877    | ug/l # | 37     |
| 89) n-Butylbenzene     | 12.92 | 91   | 831      | Below Cal | #      | 67     |

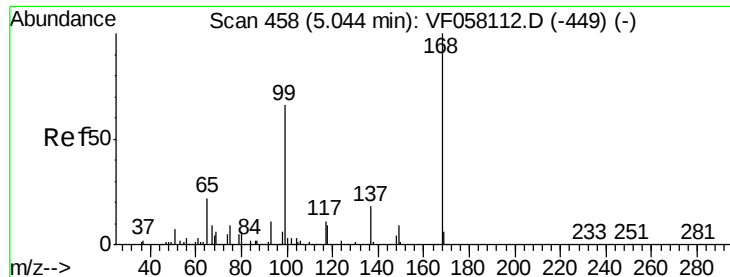
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF061818\  
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Quant Time: Jun 19 02:57:16 2018  
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Quant Title : SW846 8260  
QLast Update : Thu Jun 07 10:52:00 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

Instrument :

MSVOA\_F

ClientSampleId :

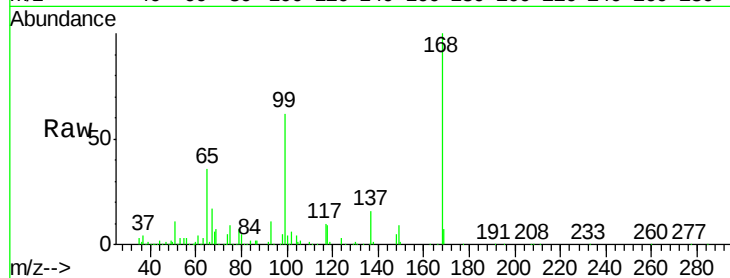
TP-5-D

Tgt Ion:168 Resp: 258745

Ion Ratio Lower Upper

168 100

99 61.9 52.9 79.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

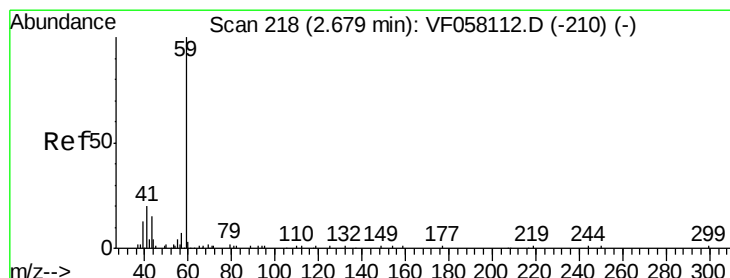
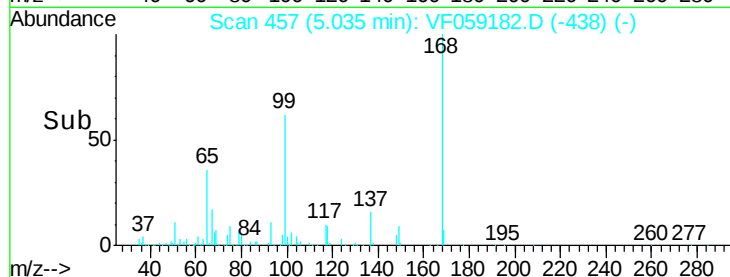
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.804 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.01 min

Lab File: VF059182.D

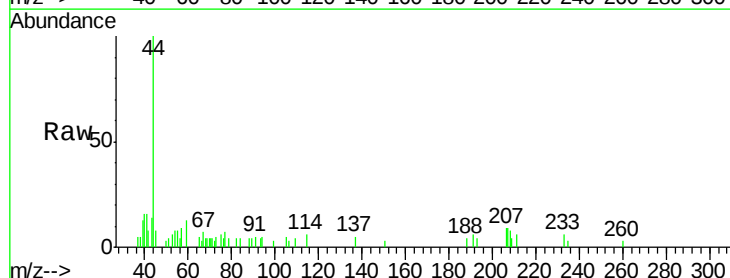
Acq: 18 Jun 2018 18:16

Tgt Ion: 59 Resp: 1368

Ion Ratio Lower Upper

59 100

57 67.8 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.69

500

400

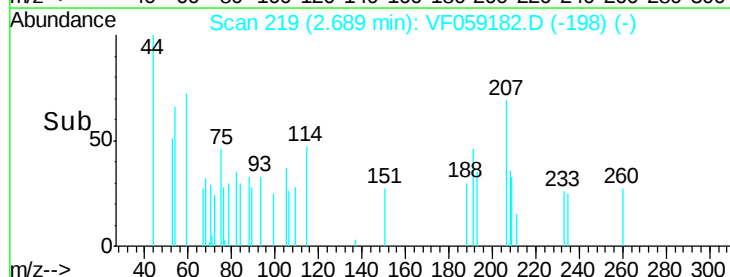
300

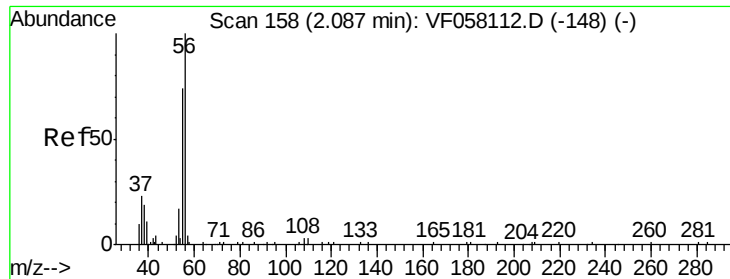
200

100

0

Time-->

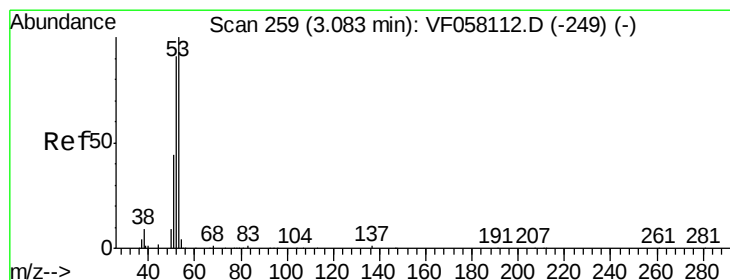
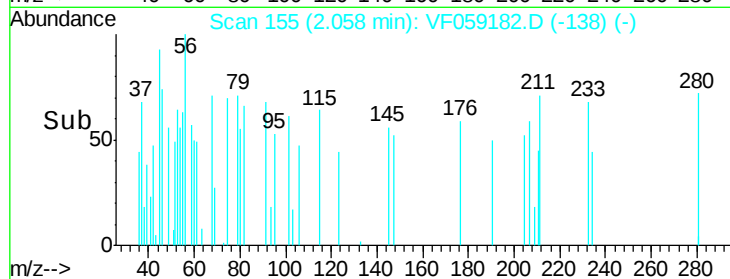
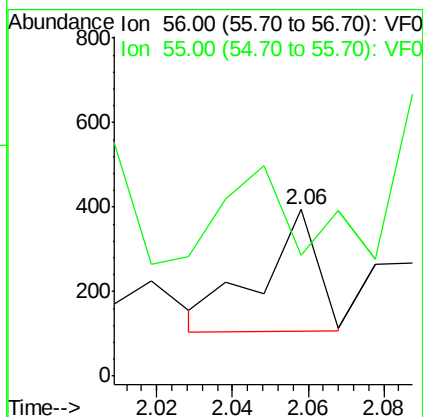
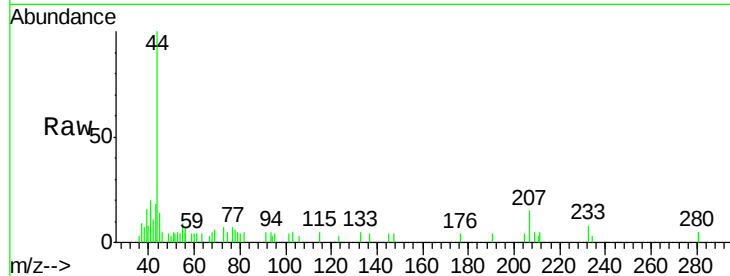




#13  
Acrolein  
Concen: 1.701 ug/l  
RT: 2.06 min Scan# 155  
Delta R.T. -0.03 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

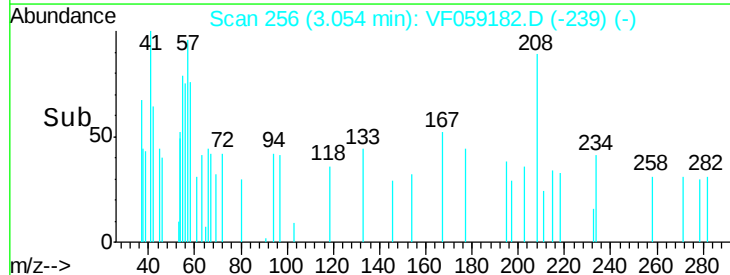
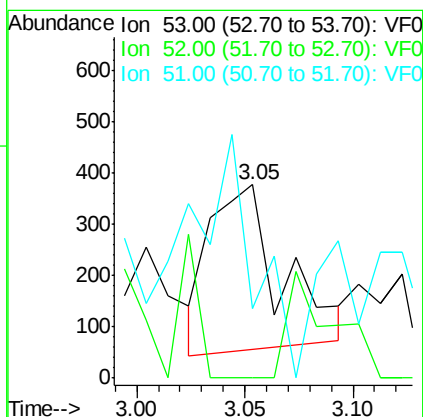
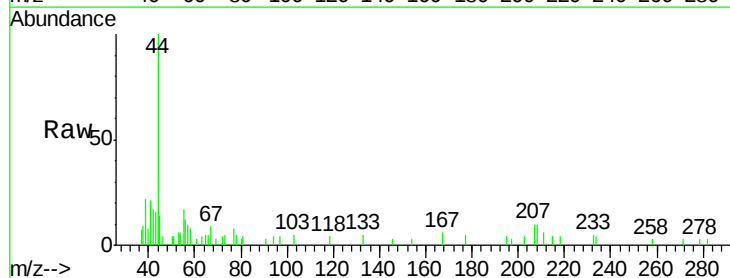
Instrument :  
MSVOA\_F  
ClientSampled :  
TP-5-D

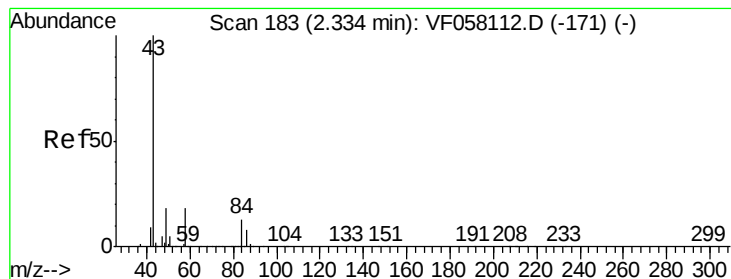
Tgt Ion: 56 Resp: 296  
Ion Ratio Lower Upper  
56 100  
55 72.6 60.0 90.0



#15  
Acrylonitrile  
Concen: 1.873 ug/l  
RT: 3.05 min Scan# 256  
Delta R.T. -0.03 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

Tgt Ion: 53 Resp: 748  
Ion Ratio Lower Upper  
53 100  
52 0.0 73.2 109.8#  
51 25.0 35.6 53.4#





#16

Acetone

Concen: 24.458 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

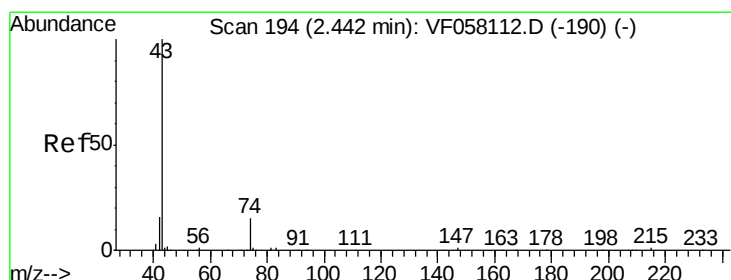
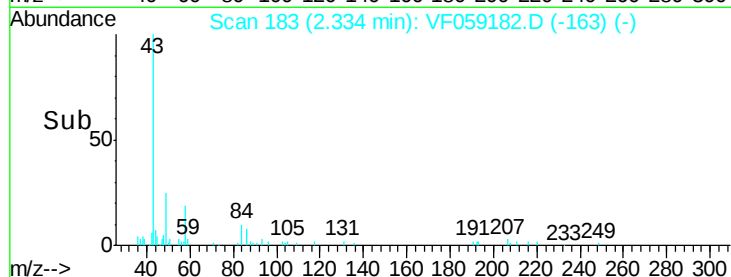
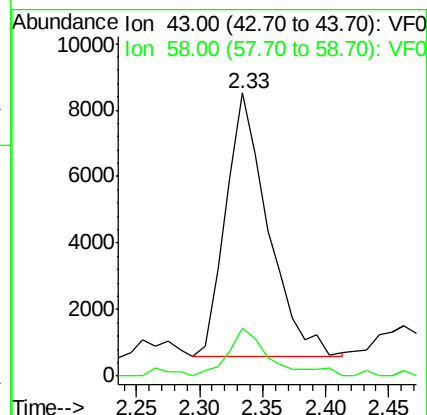
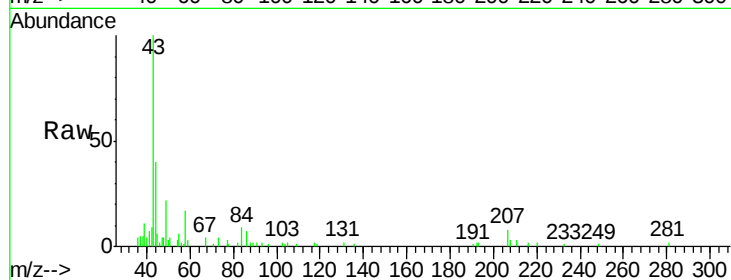
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-5-D

Tgt Ion: 43 Resp: 18325

Ion Ratio Lower Upper

43 100

58 16.8 14.4 21.6



#18

Methyl Acetate

Concen: 2.856 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059182.D

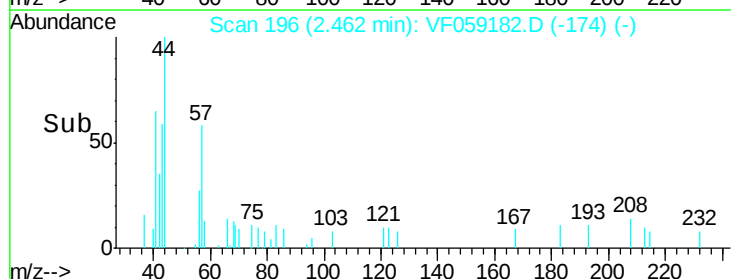
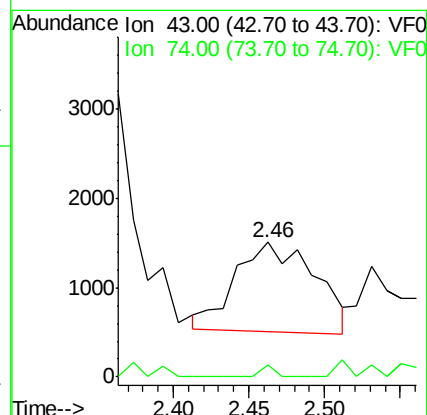
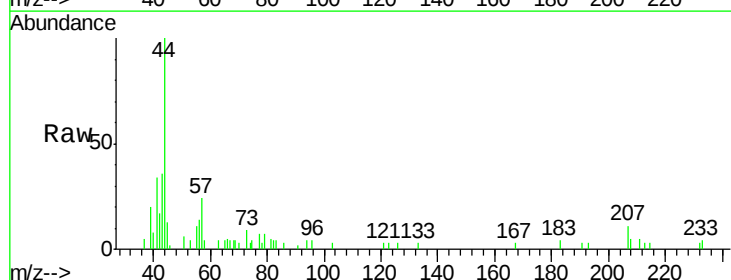
Acq: 18 Jun 2018 18:16

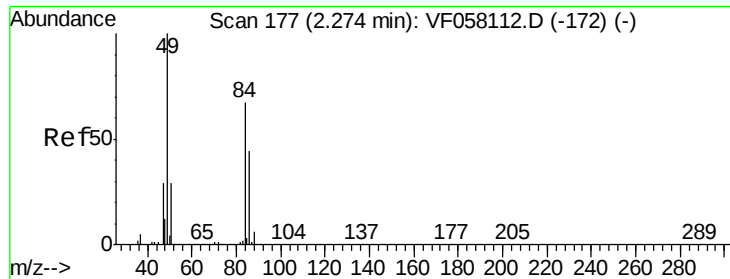
Tgt Ion: 43 Resp: 3678

Ion Ratio Lower Upper

43 100

74 9.2 10.9 16.3#

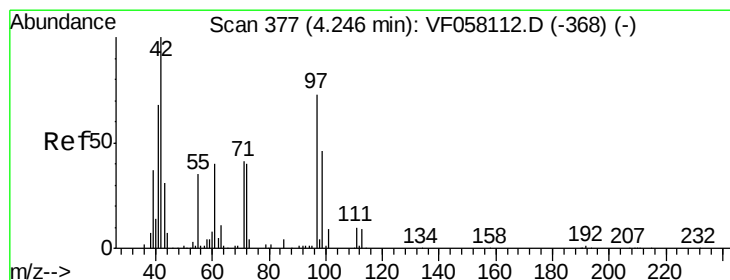
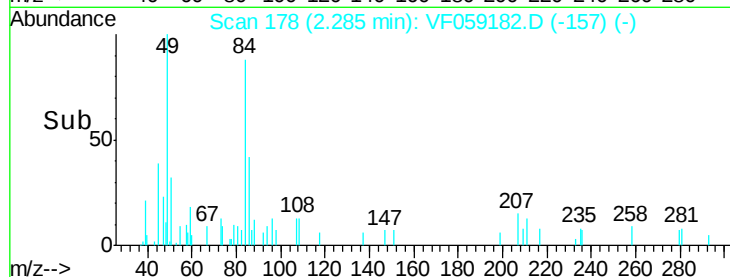
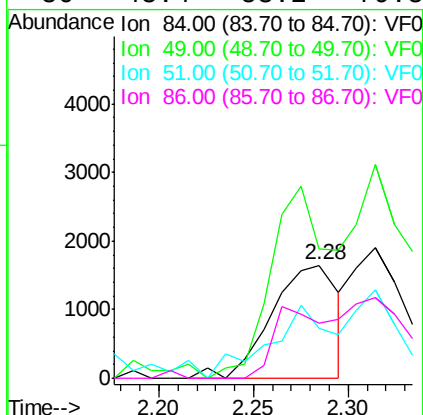
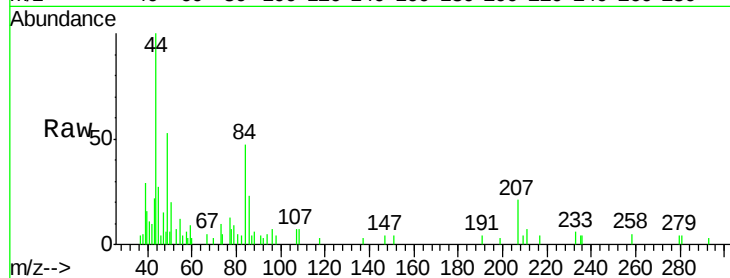




#20  
Methylene Chloride  
Concen: 2.259 ug/l  
RT: 2.28 min Scan# 178  
Delta R.T. 0.01 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

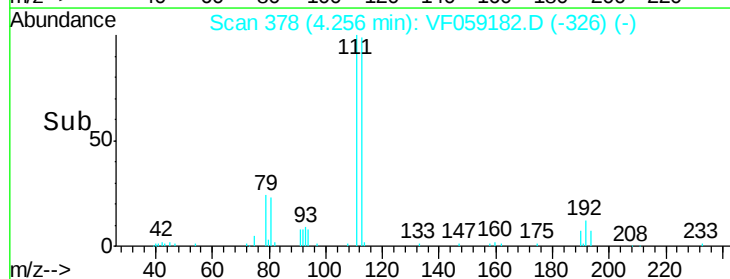
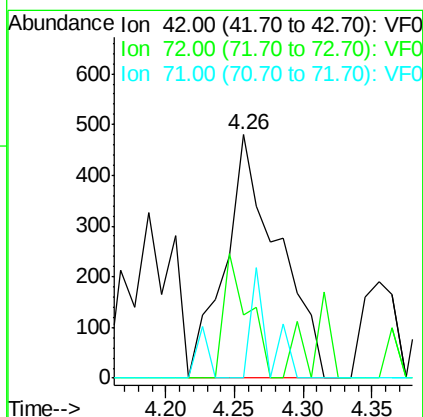
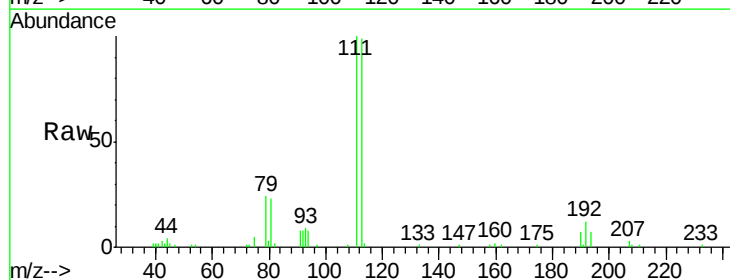
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-5-D

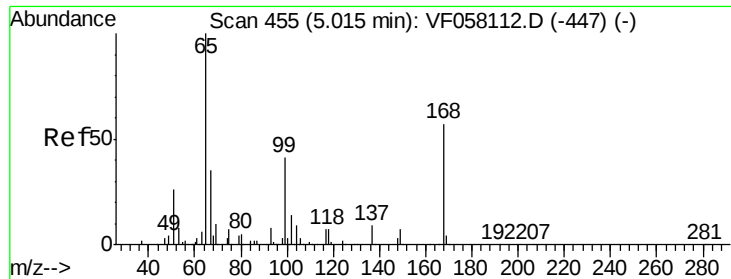
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 4052   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 114.0 | 121.0 | 181.4# |
| 51       | 43.9  | 35.8  | 53.6   |
| 86       | 48.4  | 53.2  | 79.8#  |



#29  
Tetrahydrofuran  
Concen: 2.516 ug/l  
RT: 4.26 min Scan# 378  
Delta R.T. 0.01 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1288  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 23.4  | 30.5  | 45.7# |
| 71       | 14.9  | 31.5  | 47.3# |

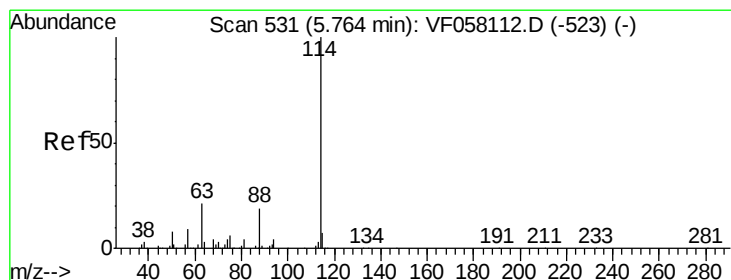
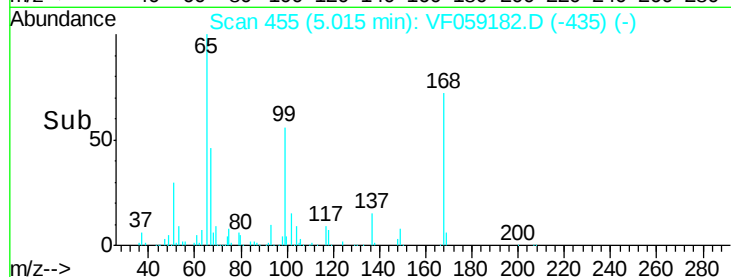
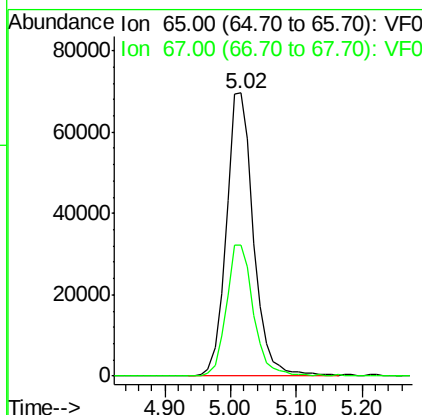
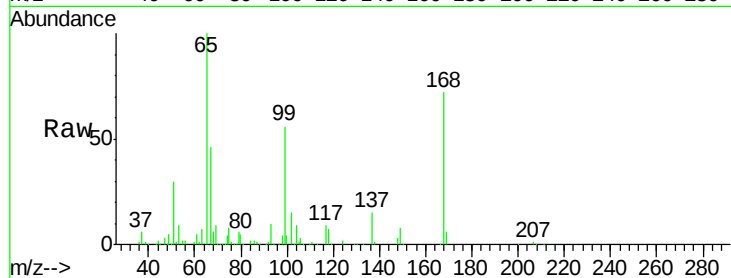




#33  
 1,2-Dichloroethane-d4  
 Concen: 64.335 ug/l  
 RT: 5.02 min Scan# 455  
 Delta R.T. 0.00 min  
 Lab File: VF059182.D  
 Acq: 18 Jun 2018 18:16

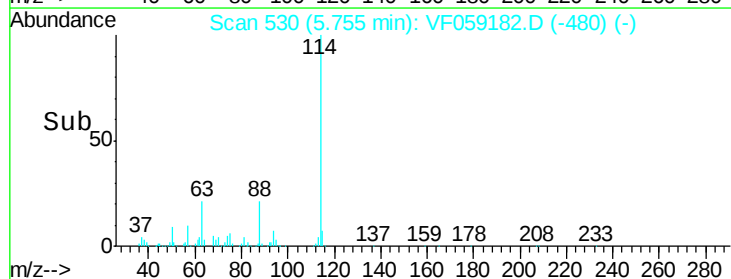
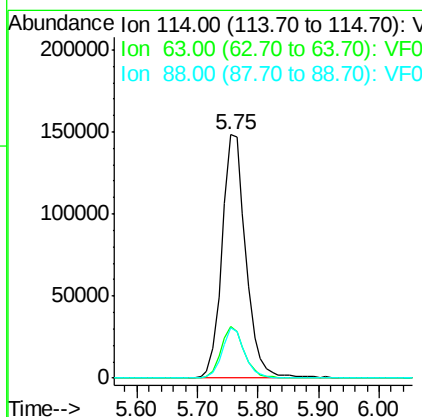
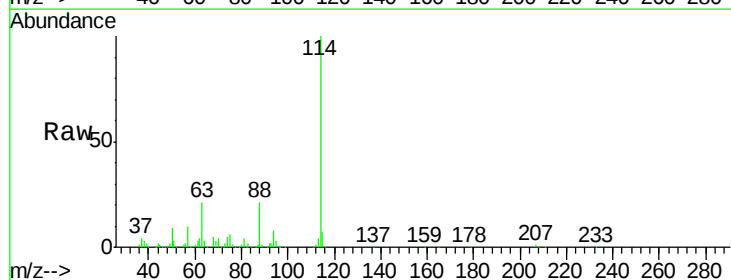
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 TP-5-D

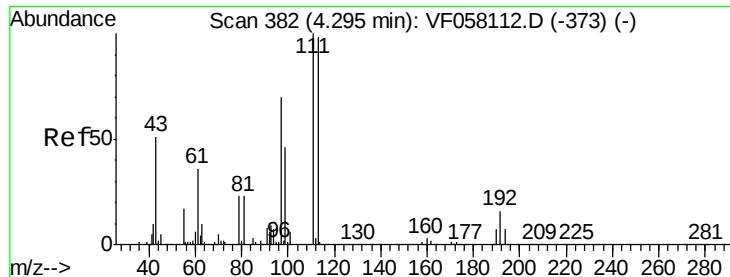
Tgt Ion: 65 Resp: 201887  
 Ion Ratio Lower Upper  
 65 100  
 67 46.2 0.0 97.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.75 min Scan# 530  
 Delta R.T. -0.01 min  
 Lab File: VF059182.D  
 Acq: 18 Jun 2018 18:16

Tgt Ion: 114 Resp: 405287  
 Ion Ratio Lower Upper  
 114 100  
 63 21.4 0.0 41.6  
 88 20.6 0.0 38.8





#35

Dibromofluoromethane

Concen: 61.486 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

Instrument :

MSVOA\_F

ClientSampleId :

TP-5-D

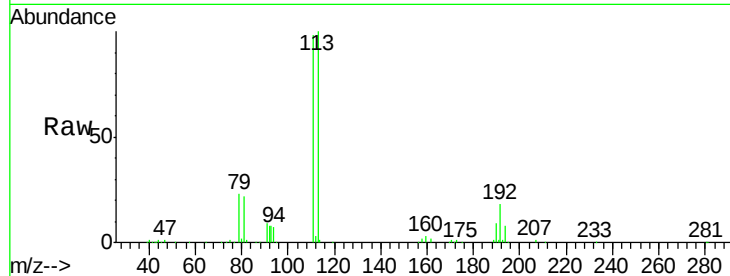
Tgt Ion: 113 Resp: 174852

Ion Ratio Lower Upper

113 100

111 97.7 81.3 121.9

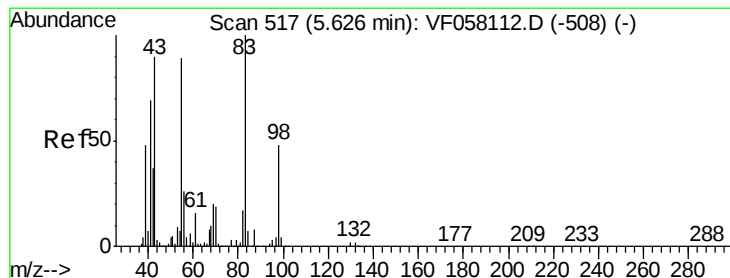
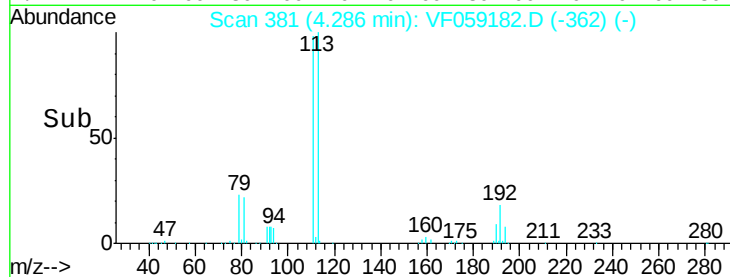
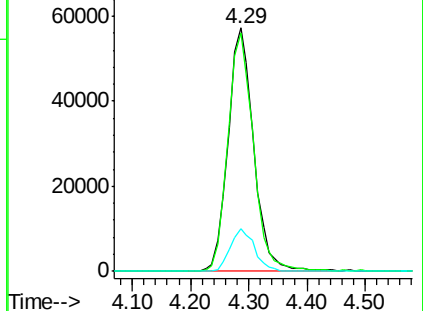
192 17.7 12.7 19.1



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



#39

Methylcyclohexane

Concen: 1.203 ug/l

RT: 5.75 min Scan# 530

Delta R.T. 0.13 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

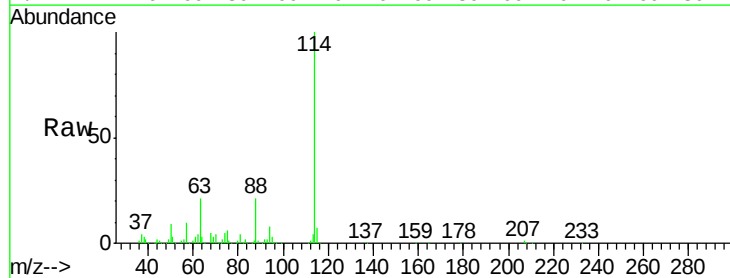
Tgt Ion: 83 Resp: 4816

Ion Ratio Lower Upper

83 100

55 38.3 71.0 106.4#

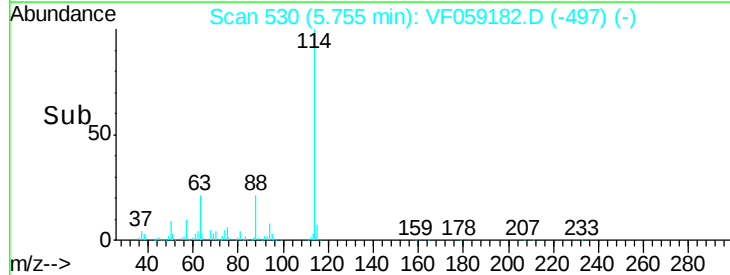
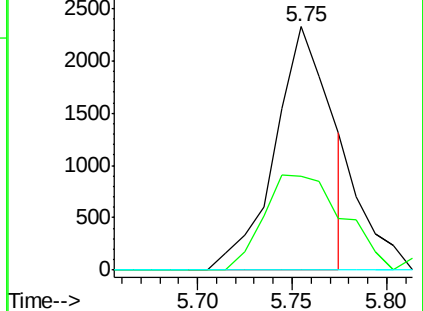
98 0.0 38.1 57.1#

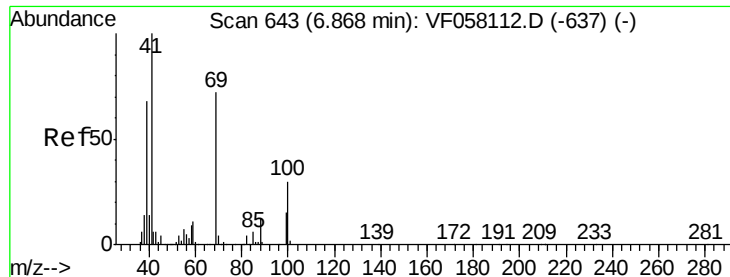


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

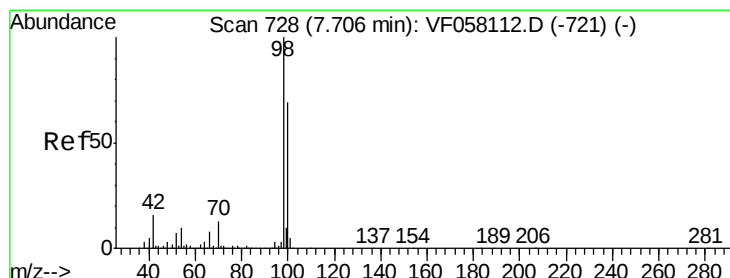
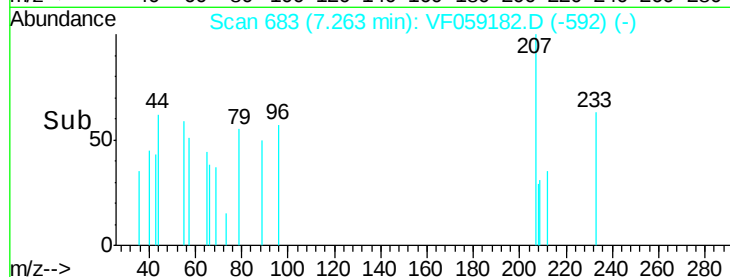
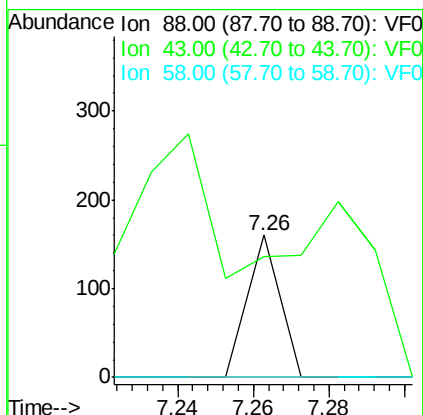
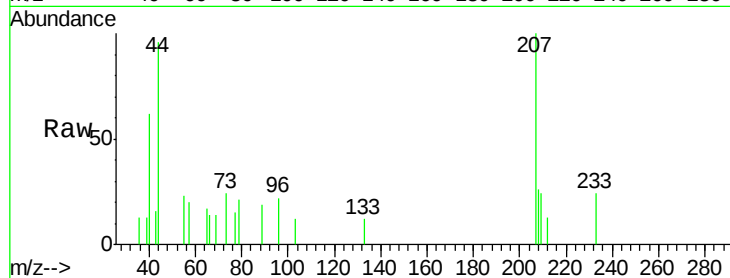




#49  
1,4-Dioxane  
Concen: 18.877 ug/l  
RT: 7.26 min Scan# 683  
Delta R.T. 0.40 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

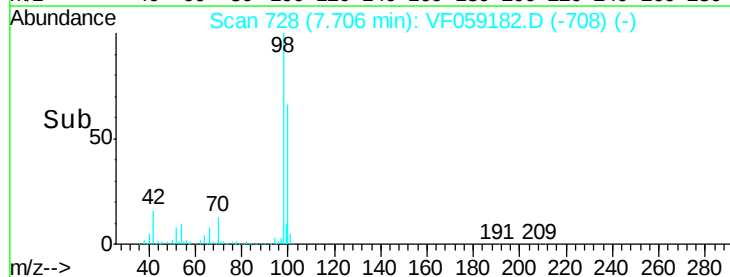
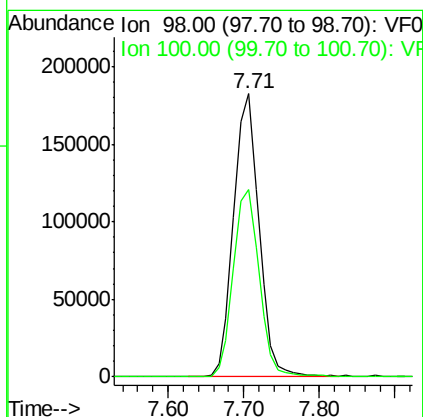
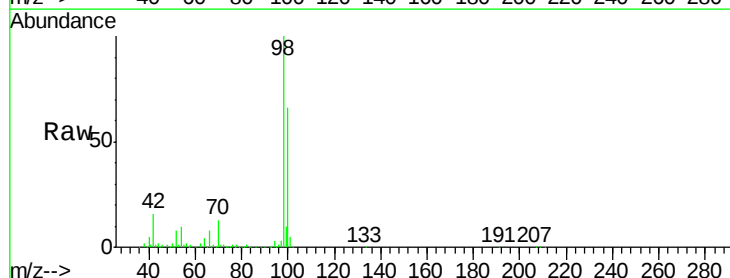
Instrument :  
MSVOA\_F  
ClientSampleId :  
TP-5-D

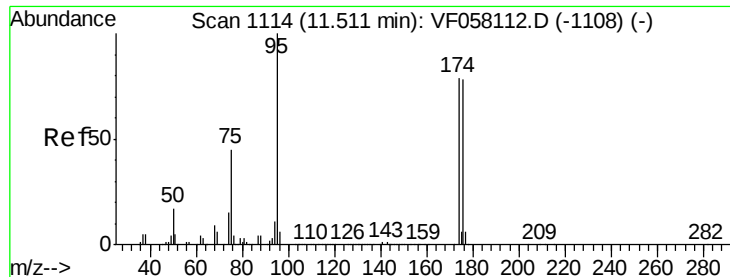
Tgt Ion: 88 Resp: 95  
Ion Ratio Lower Upper  
88 100  
43 85.0 47.8 71.8#  
58 0.0 59.4 89.0#



#50  
Toluene-d8  
Concen: 50.868 ug/l  
RT: 7.71 min Scan# 728  
Delta R.T. 0.00 min  
Lab File: VF059182.D  
Acq: 18 Jun 2018 18:16

Tgt Ion: 98 Resp: 424976  
Ion Ratio Lower Upper  
98 100  
100 66.2 55.6 83.4





#62

4-Bromofluorobenzene

Concen: 49.134 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

Instrument :

MSVOA\_F

ClientSampleId :

TP-5-D

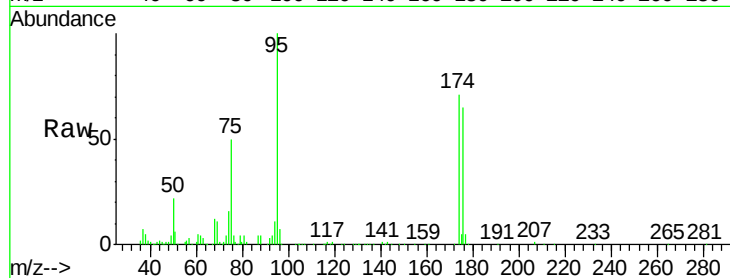
Tgt Ion: 95 Resp: 210543

Ion Ratio Lower Upper

95 100

174 71.2 0.0 157.8

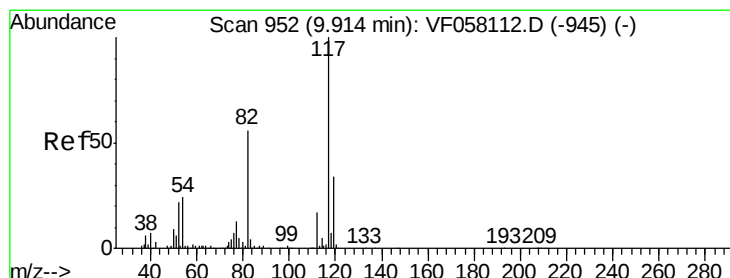
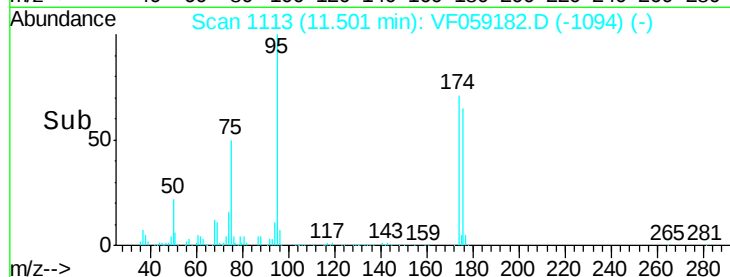
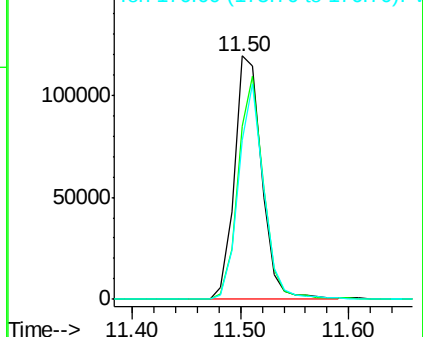
176 65.4 0.0 155.8



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: 9.91 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

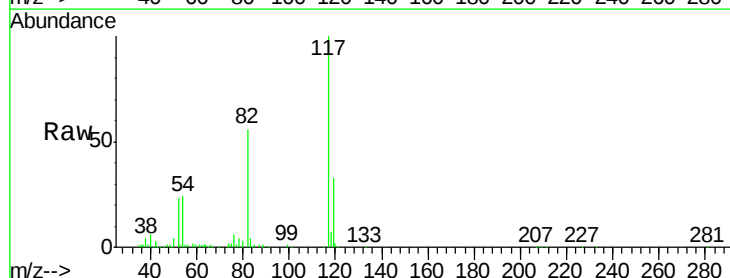
Tgt Ion: 117 Resp: 391004

Ion Ratio Lower Upper

117 100

82 56.3 45.2 67.8

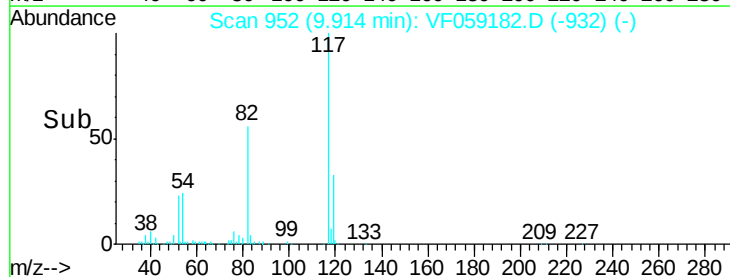
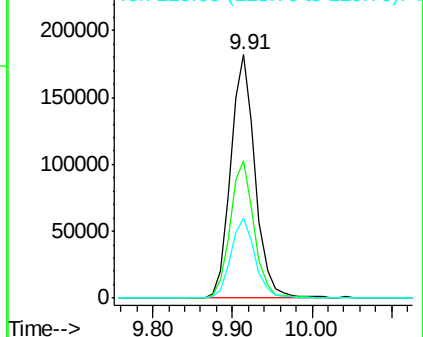
119 32.8 27.5 41.3

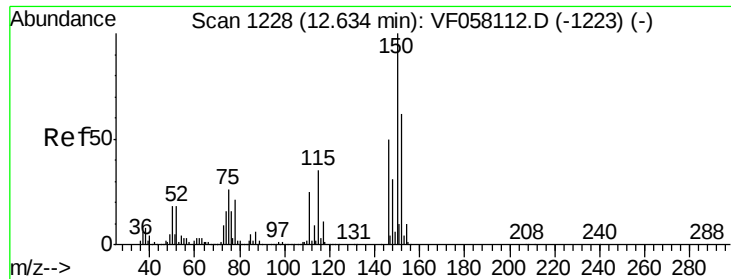


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059182.D

Acq: 18 Jun 2018 18:16

Instrument :

MSVOA\_F

ClientSampleId :

TP-5-D

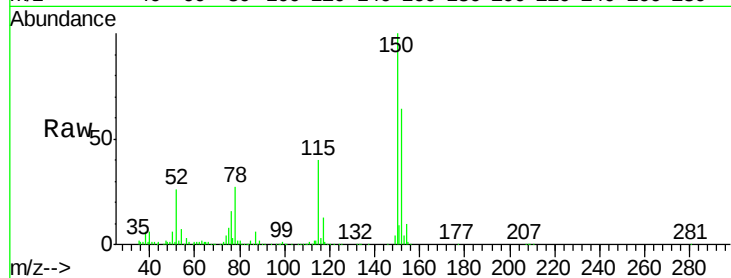
Tgt Ion:152 Resp: 226568

Ion Ratio Lower Upper

152 100

115 62.6 28.5 85.5

150 155.3 0.0 323.8



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

