

Data File : VW008621.D  
Acq On : 12 Feb 2019 14:32  
Operator : SY/VA  
Sample : K1458-09  
Misc : 5.07G/5ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-6RE

Quant Time: Feb 13 00:20:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 99926    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 159567   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 144916   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 64623    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 58408    | 59.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 119.00% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 50918    | 54.57 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.14% |      |
| 50) Toluene-d8              | 10.32  | 98  | 187092   | 50.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.00% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 69189    | 48.11 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.22%  |      |

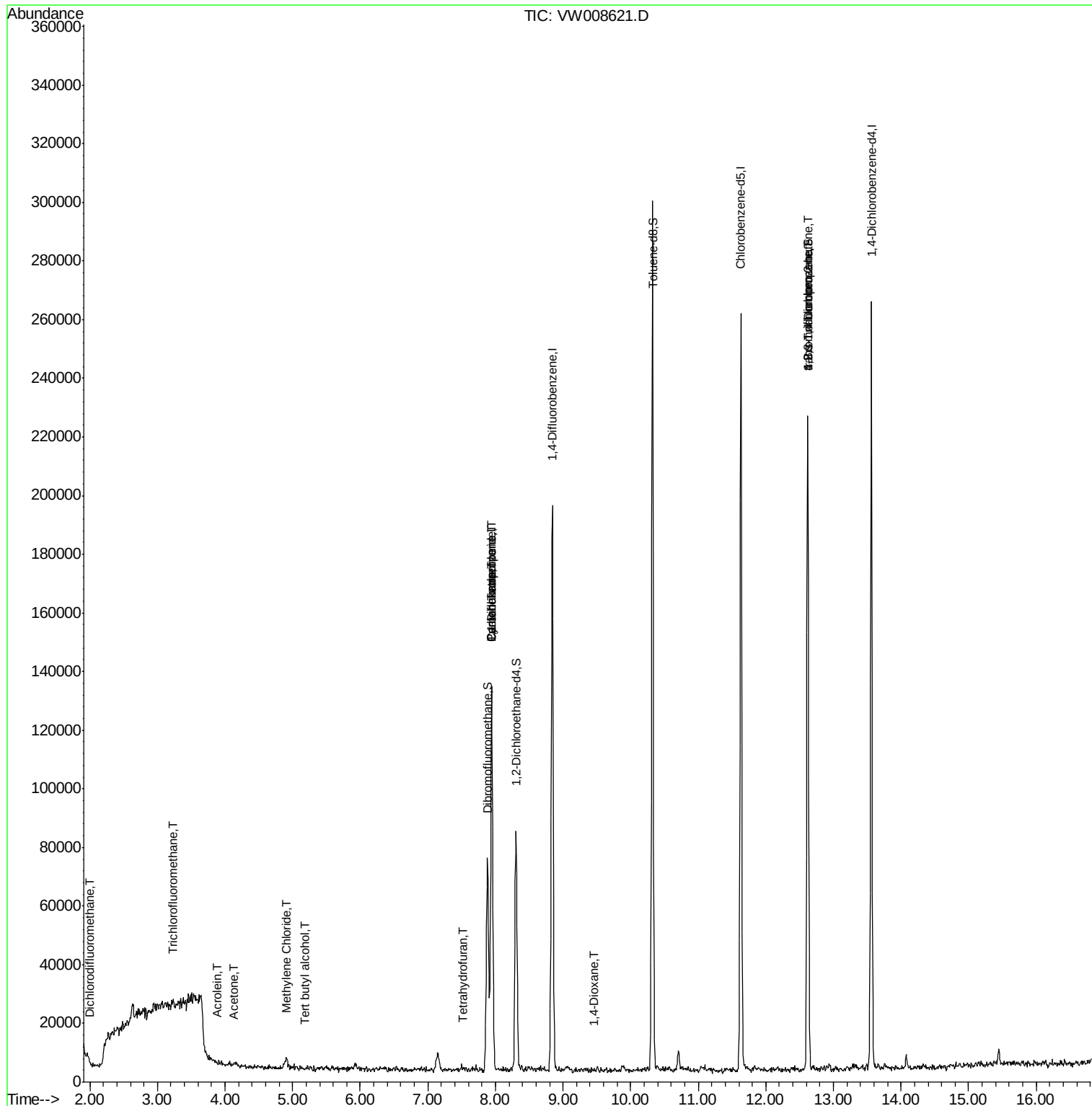
|                                |       |     |        |         |        |    |
|--------------------------------|-------|-----|--------|---------|--------|----|
| Target Compounds               |       |     | Qvalue |         |        |    |
| 2) Dichlorodifluoromethane     | 2.00  | 85  | 27     | 3.296   | ug/l # | 41 |
| 7) Trichlorofluoromethane      | 3.24  | 101 | 156    | 4.881   | ug/l   | 99 |
| 11) Tert butyl alcohol         | 5.18  | 59  | 146    | 1.847   | ug/l # | 1  |
| 13) Acrolein                   | 3.87  | 56  | 178    | 6.695   | ug/l # | 59 |
| 16) Acetone                    | 4.13  | 43  | 967    | 4.386   | ug/l # | 61 |
| 20) Methylene Chloride         | 4.90  | 84  | 2048   | 2.016   | ug/l # | 77 |
| 29) Tetrahydrofuran            | 7.52  | 42  | 487    | 2.510   | ug/l # | 56 |
| 31) Cyclohexane                | 7.95  | 56  | 2707   | 1.405   | ug/l # | 1  |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 7479   | 4.962   | ug/l # | 46 |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 9221   | 6.079   | ug/l # | 18 |
| 49) 1,4-Dioxane                | 9.45  | 88  | 84     | 9.265   | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 36187  | 64.407  | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 36187  | 127.208 | ug/l # | 12 |

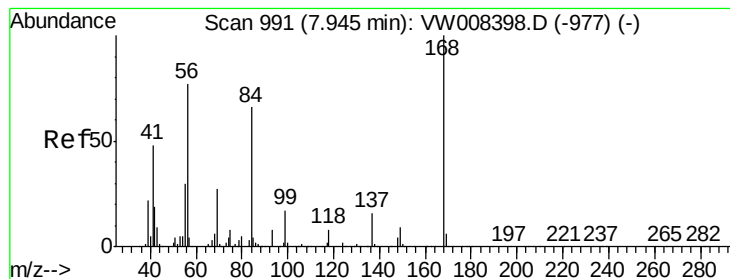
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW008621.D  
Acq On : 12 Feb 2019 14:32  
Operator : SY/VA  
Sample : K1458-09  
Misc : 5.07G/5ML/MSVOA\_W/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-6RE

Quant Time: Feb 13 00:20:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

Instrument :

MSVOA\_W

ClientSampled :

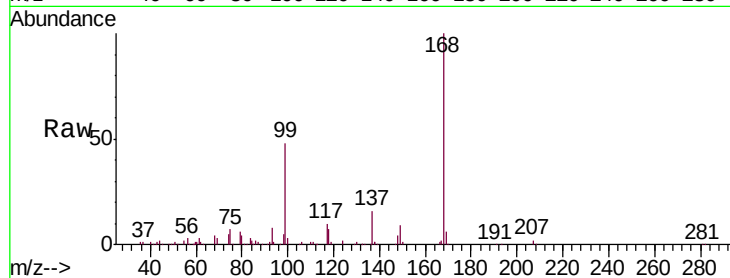
SB-6RE

Tgt Ion:168 Resp: 99926

Ion Ratio Lower Upper

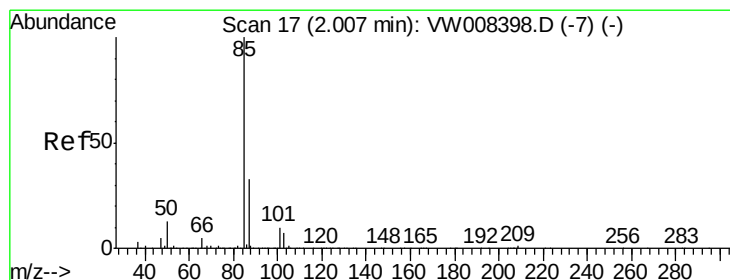
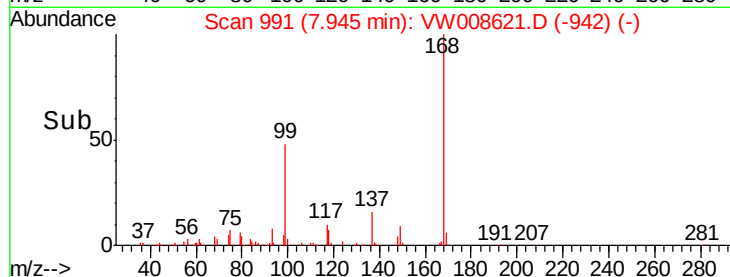
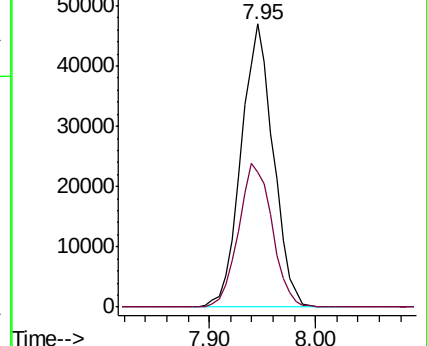
168 100

99 47.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 3.296 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008621.D

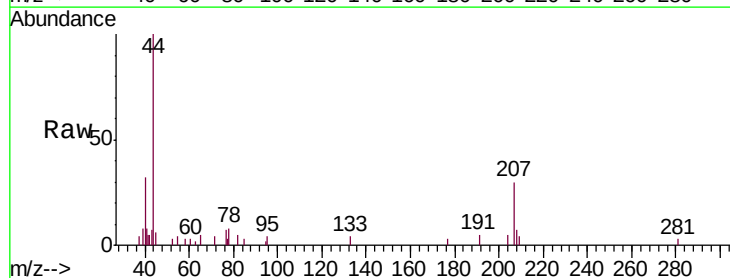
Acq: 12 Feb 2019 14:32

Tgt Ion: 85 Resp: 27

Ion Ratio Lower Upper

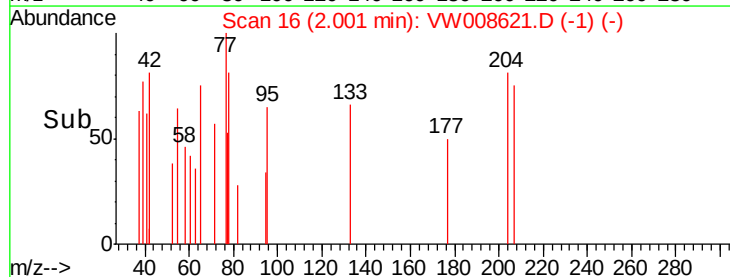
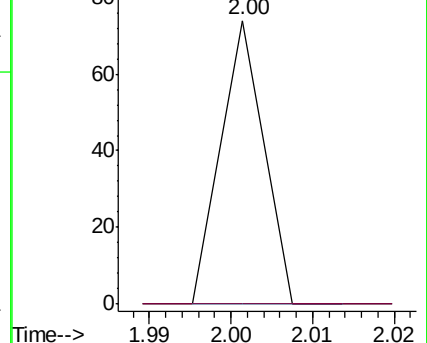
85 100

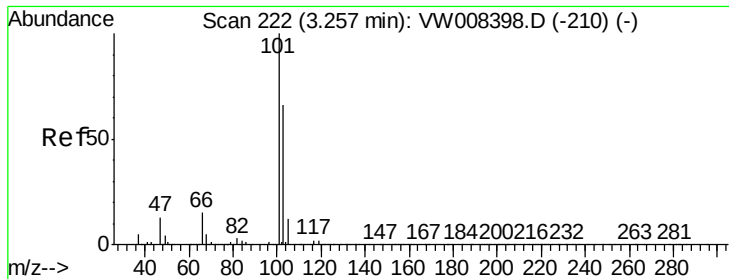
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW



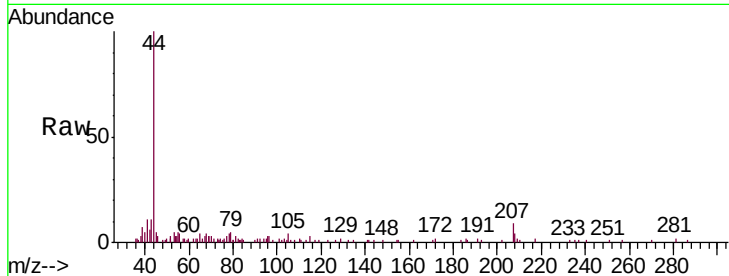


#7

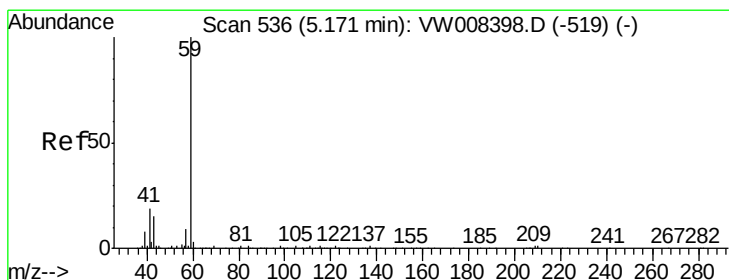
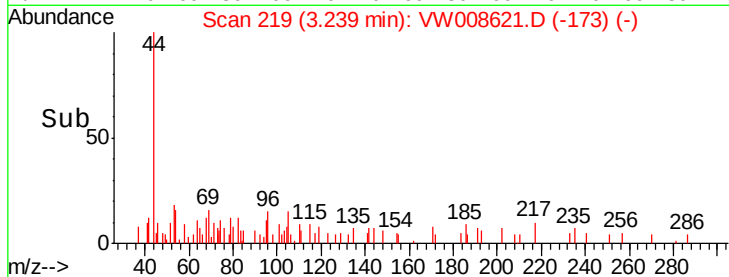
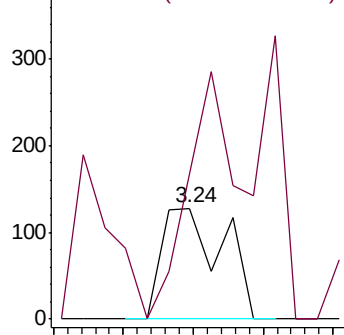
Trichlorofluoromethane  
Concen: 4.881 ug/l  
RT: 3.24 min Scan# 219  
Delta R.T. -0.02 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-6RE

Tgt Ion: 101 Resp: 156  
Ion Ratio Lower Upper  
101 100  
103 66.4 52.5 78.7



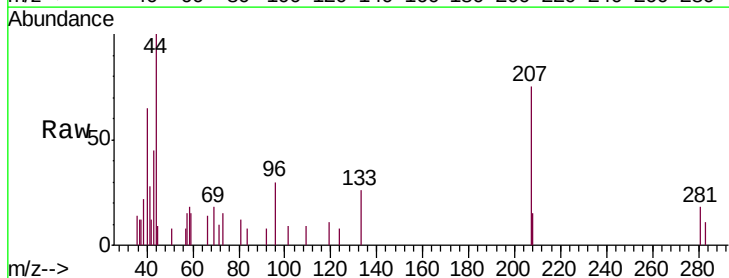
Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 102.80 (102.50 to 103.50): V



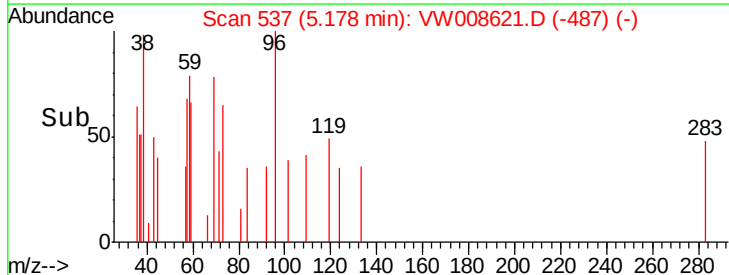
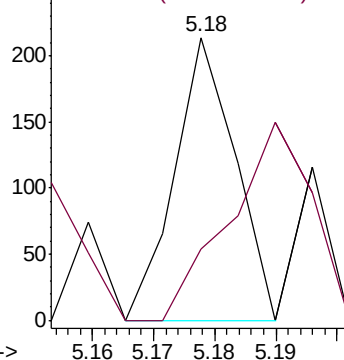
#11

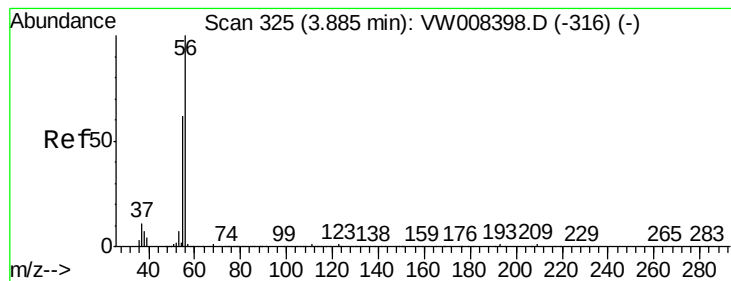
Tert butyl alcohol  
Concen: 1.847 ug/l  
RT: 5.18 min Scan# 537  
Delta R.T. 0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Tgt Ion: 59 Resp: 146  
Ion Ratio Lower Upper  
59 100  
57 95.2 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW  
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 6.695 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.01 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

Instrument :

MSVOA\_W

ClientSampleId :

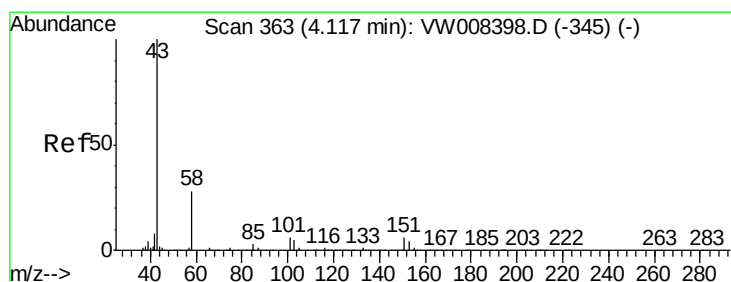
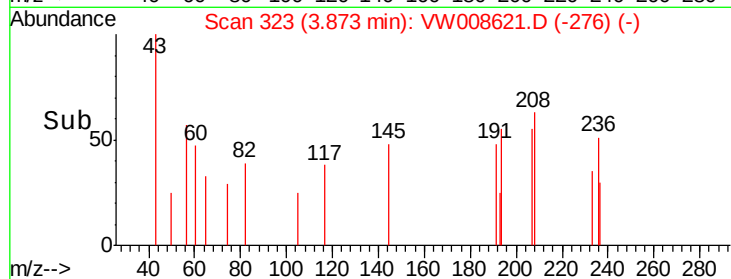
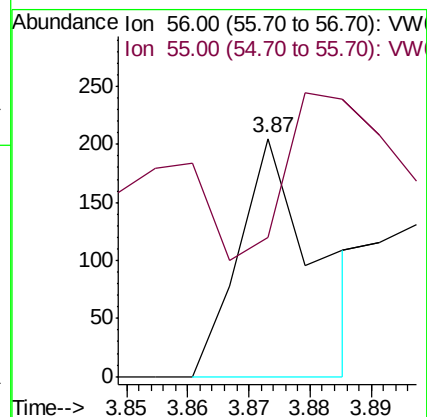
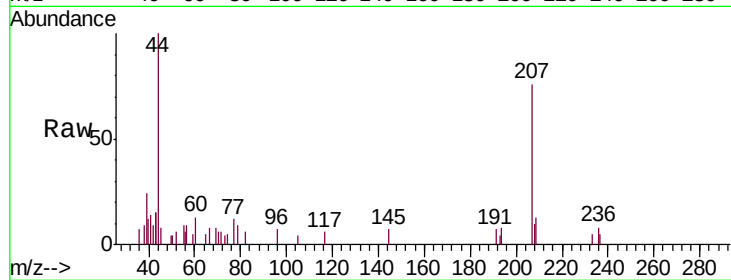
SB-6RE

Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 105.1 56.7 85.1#



#16

Acetone

Concen: 4.386 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008621.D

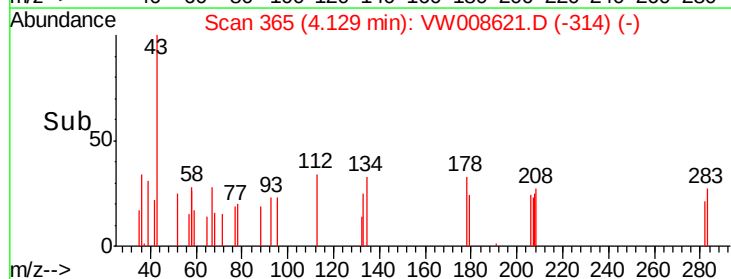
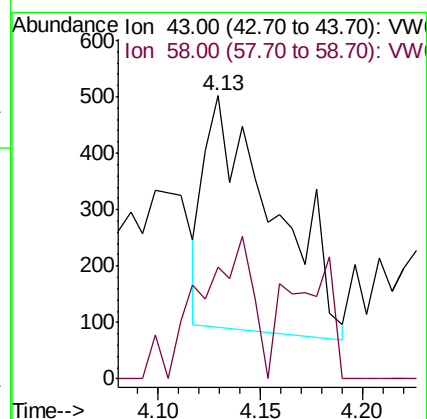
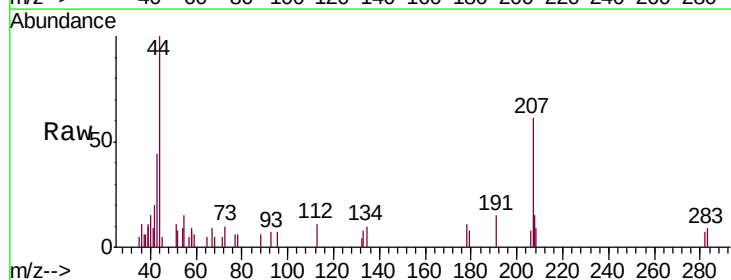
Acq: 12 Feb 2019 14:32

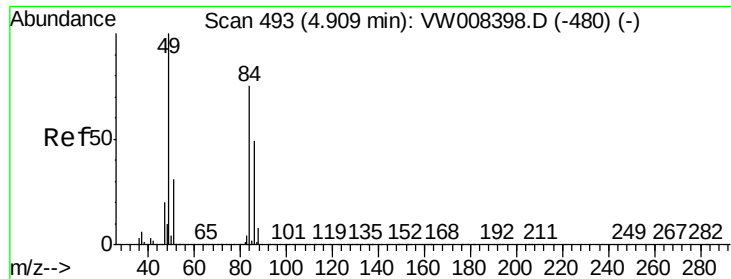
Tgt Ion: 43 Resp: 967

Ion Ratio Lower Upper

43 100

58 49.1 22.6 34.0#

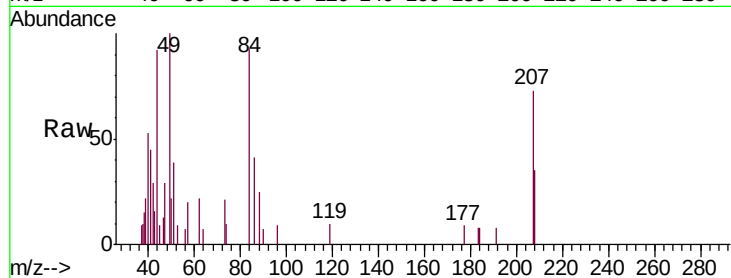




#20  
Methylene Chloride  
Concen: 2.016 ug/l  
RT: 4.90 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Instrument :  
MSVOA\_W  
ClientSampleID :  
SB-6RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2048  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 108.0 | 106.8 | 160.2 |
| 51       | 42.4  | 32.9  | 49.3  |
| 86       | 35.7  | 52.2  | 78.2# |



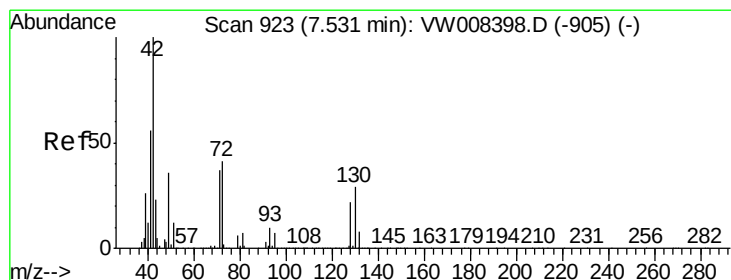
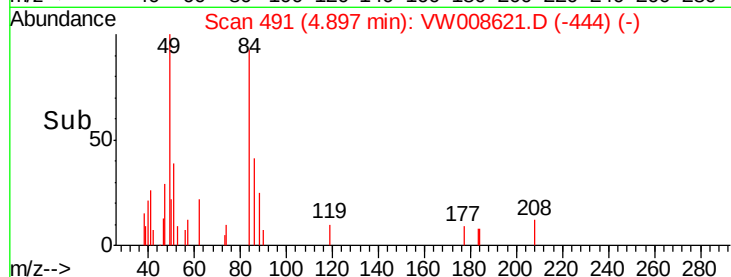
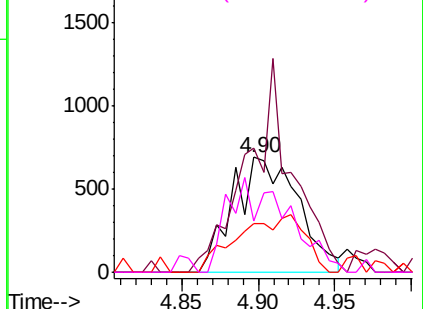
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

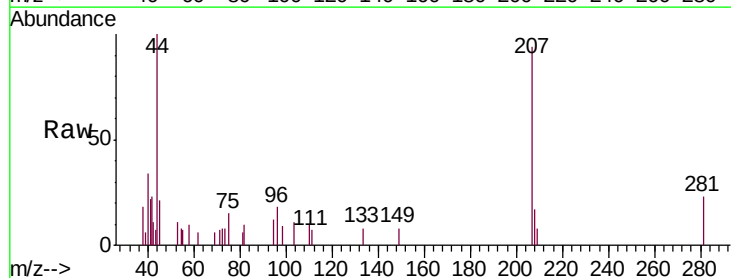
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29  
Tetrahydrofuran  
Concen: 2.510 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 487   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 19.1  | 31.9  | 47.9# |
| 71       | 4.5   | 29.9  | 44.9# |

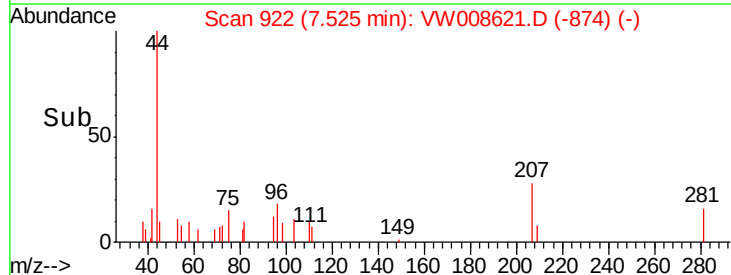
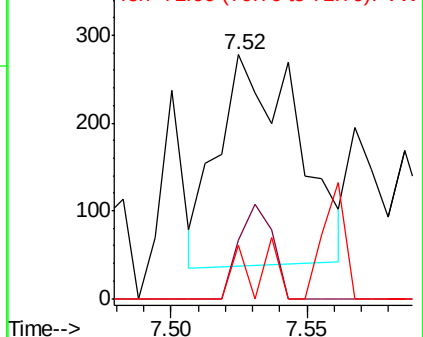


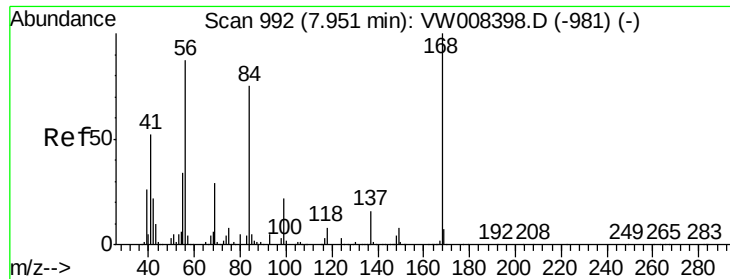
Abundance

Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

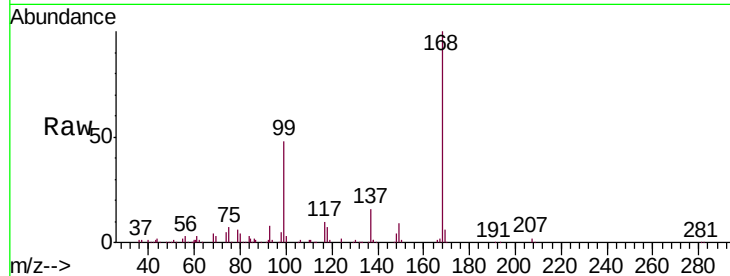




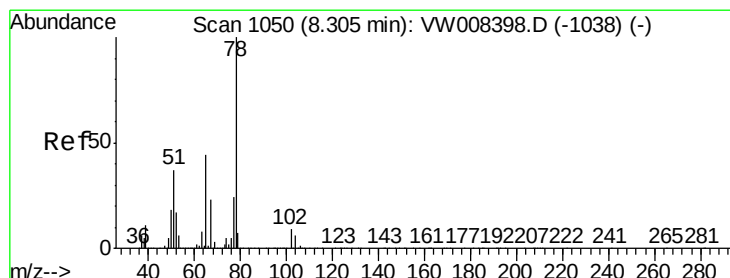
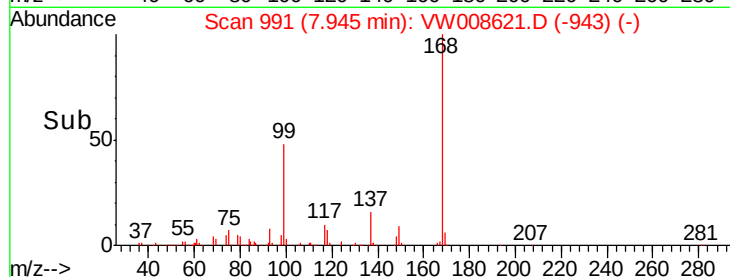
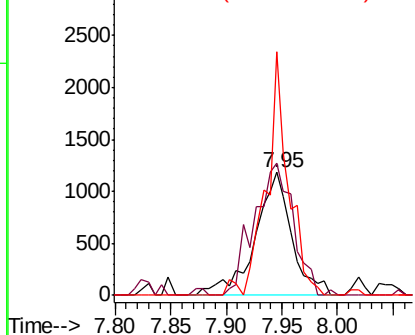
#31  
Cyclohexane  
Concen: 1.405 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-6RE

Tgt Ion: 56 Resp: 2707  
Ion Ratio Lower Upper  
56 100  
69 107.7 26.4 39.6#  
84 197.6 69.1 103.7#

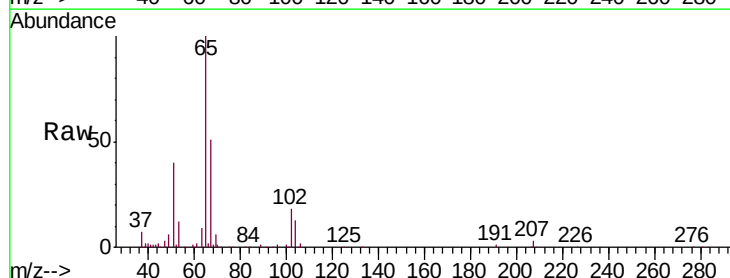


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

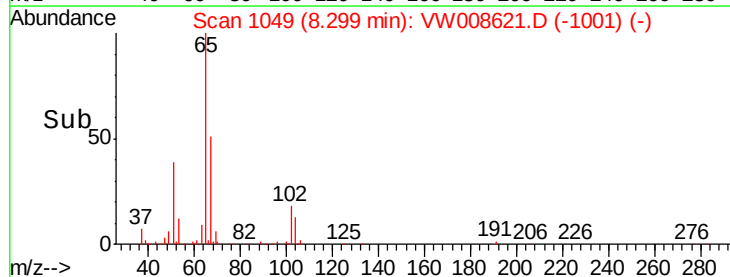
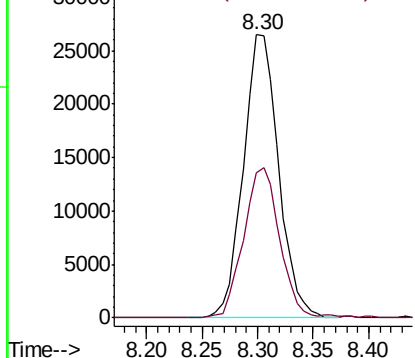


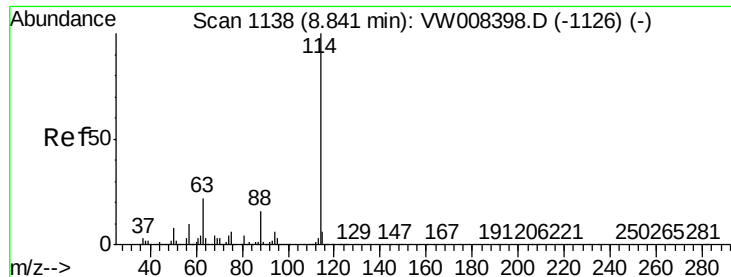
#33  
1,2-Dichloroethane-d4  
Concen: 59.498 ug/l  
RT: 8.30 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Tgt Ion: 65 Resp: 58408  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW

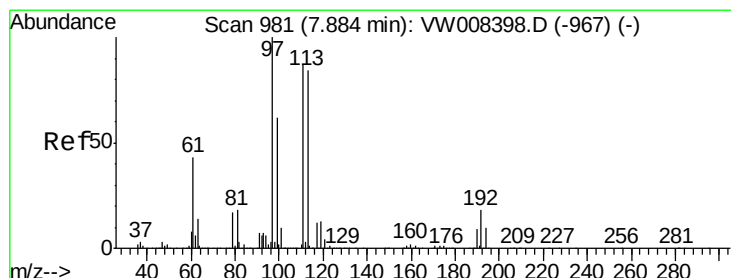
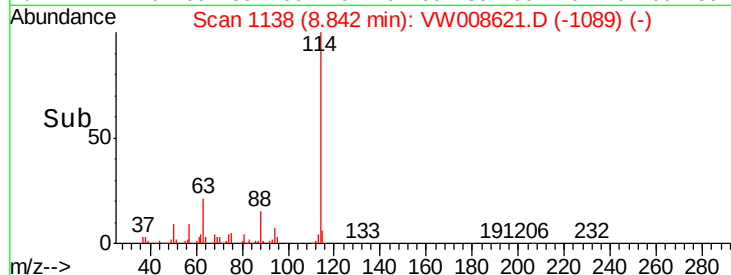
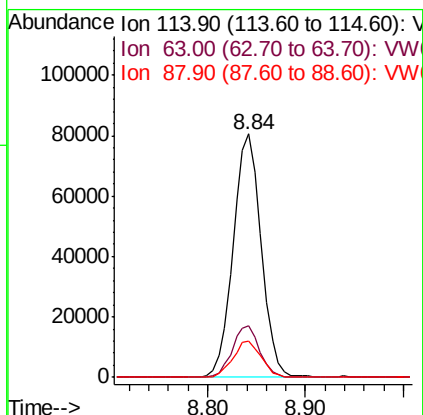
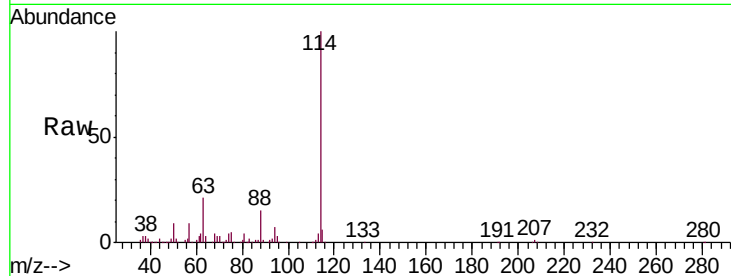




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW008621.D  
 Acq: 12 Feb 2019 14:32

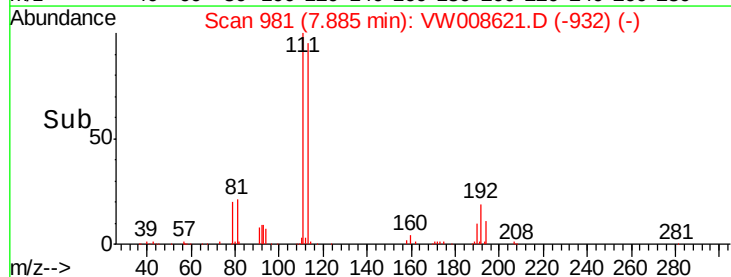
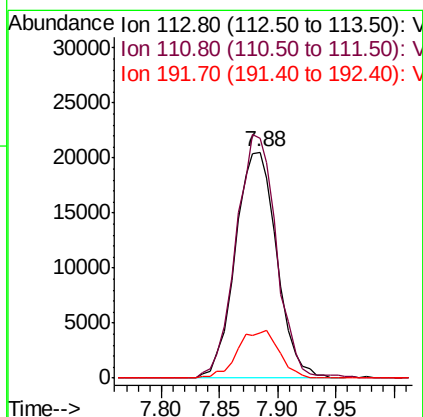
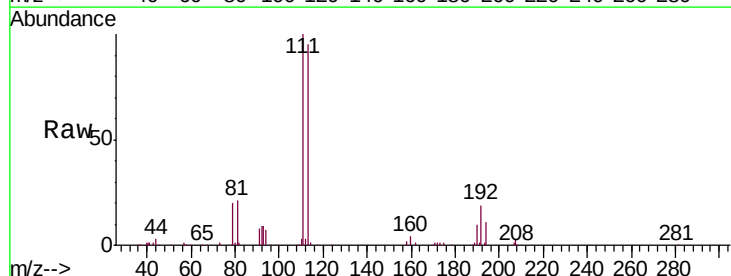
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-6RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.1  | 0.0   | 43.6  |
| 88      | 15.0  | 0.0   | 31.8  |

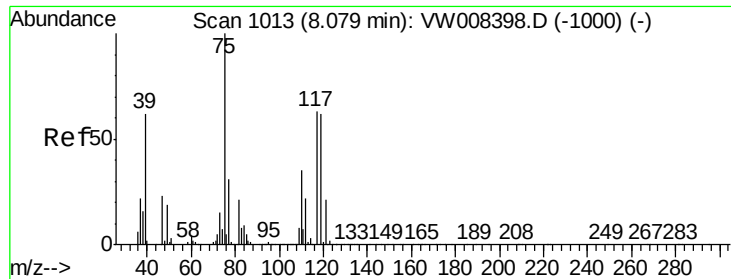


#35  
 Dibromofluoromethane  
 Concen: 54.572 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW008621.D  
 Acq: 12 Feb 2019 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.0 | 81.0  | 121.4 |
| 192     | 21.0  | 16.8  | 25.2  |



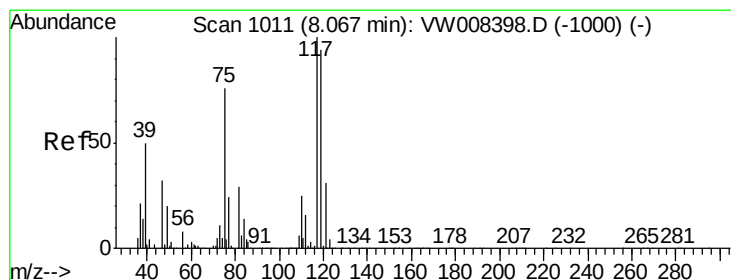
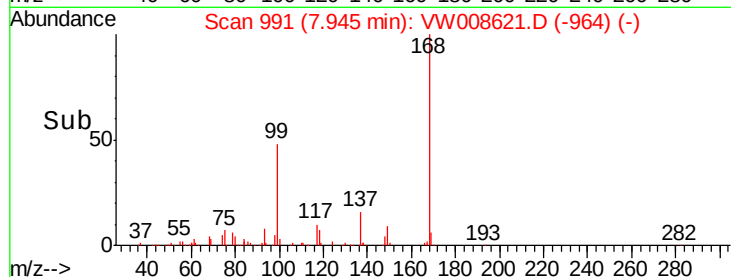
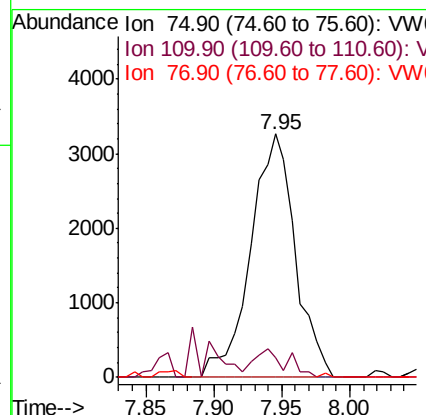
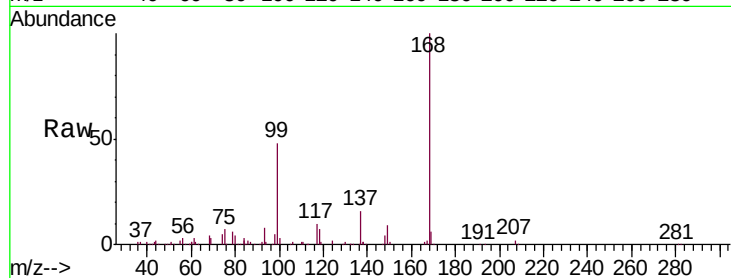




#36  
 1,1-Dichloropropene  
 Concen: 4.962 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW008621.D  
 Acq: 12 Feb 2019 14:32

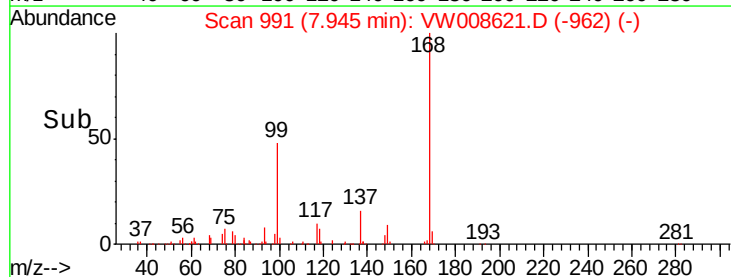
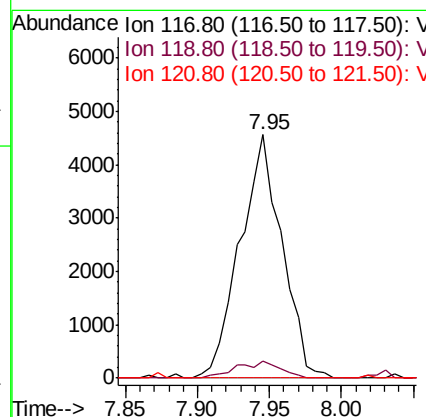
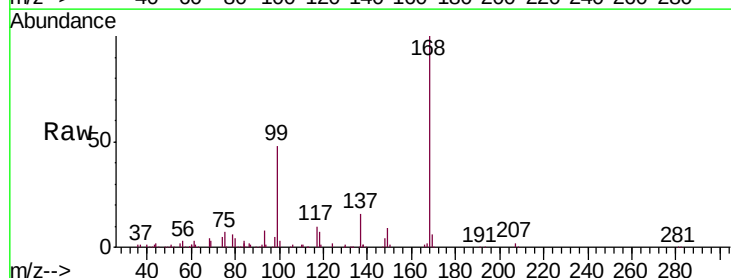
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-6RE

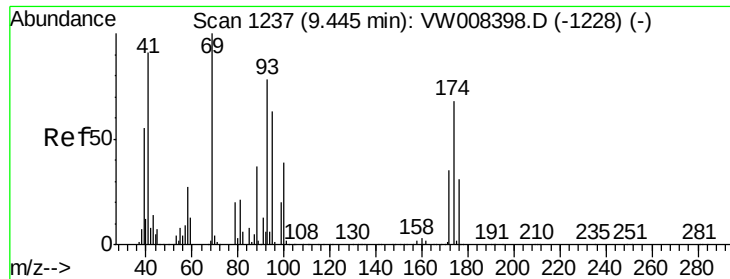
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 4.3   | 17.3  | 52.0# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.079 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW008621.D  
 Acq: 12 Feb 2019 14:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 7.1   | 75.0  | 112.4# |
| 121     | 0.0   | 24.9  | 37.3#  |

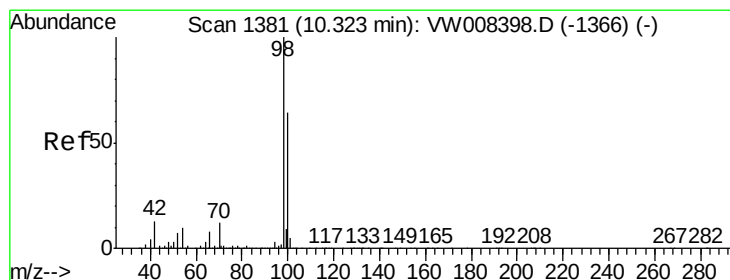
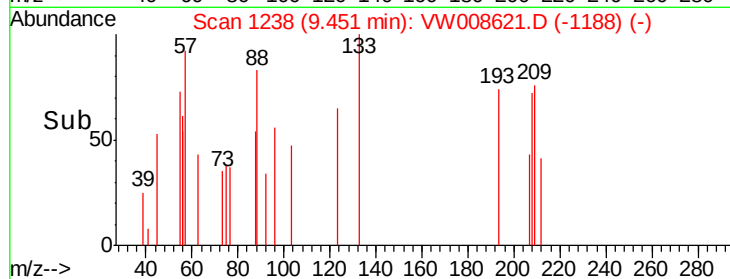
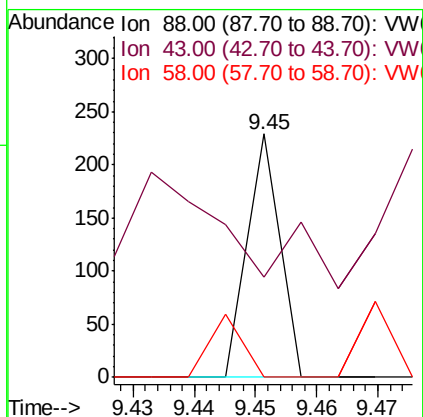
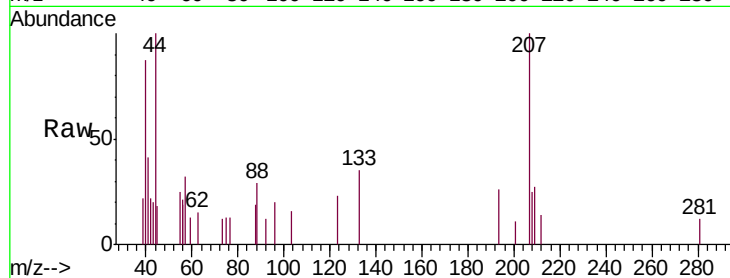




#49  
1,4-Dioxane  
Concen: 9.265 ug/l  
RT: 9.45 min Scan# 1238  
Delta R.T. 0.01 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

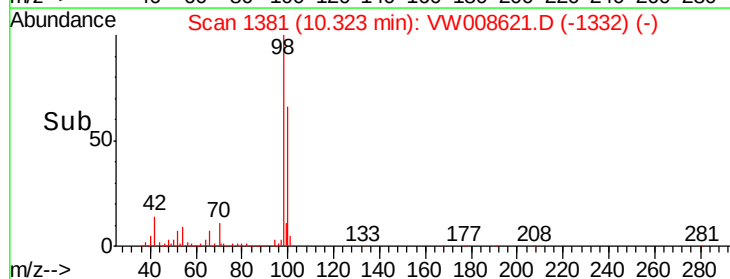
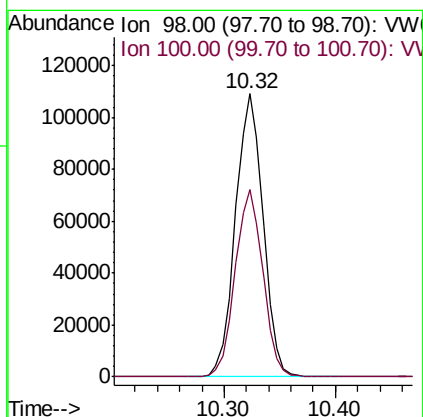
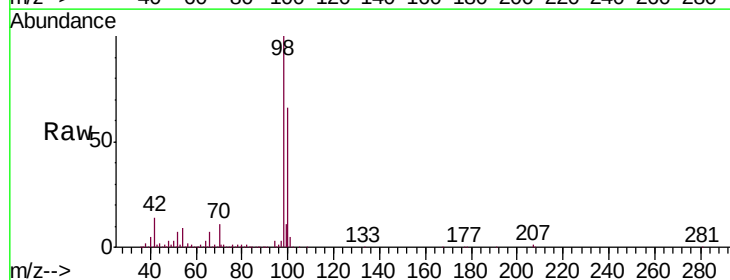
Instrument :  
MSVOA\_W  
ClientSampled :  
SB-6RE

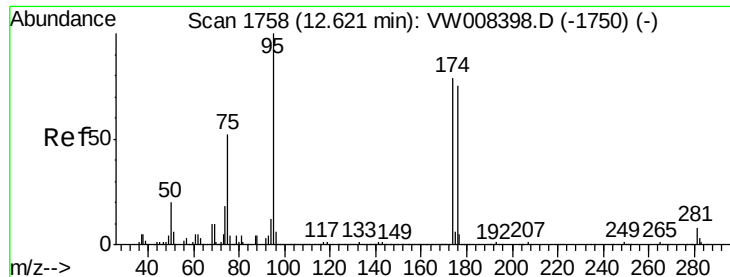
Tgt Ion: 88 Resp: 84  
Ion Ratio Lower Upper  
88 100  
43 375.0 29.0 43.4#  
58 26.2 56.4 84.6#



#50  
Toluene-d8  
Concen: 50.004 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW008621.D  
Acq: 12 Feb 2019 14:32

Tgt Ion: 98 Resp: 187092  
Ion Ratio Lower Upper  
98 100  
100 66.5 52.6 78.8





#62

4-Bromofluorobenzene

Concen: 48.108 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

Instrument :

MSVOA\_W

ClientSampled :

SB-6RE

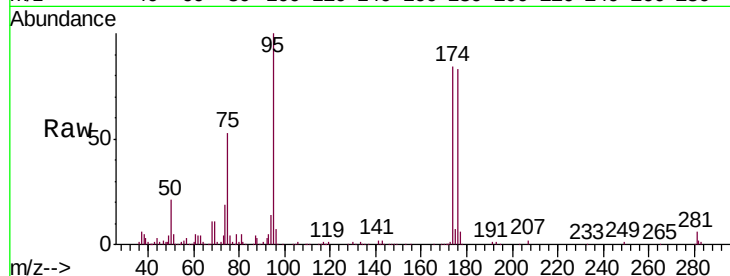
Tgt Ion: 95 Resp: 69189

Ion Ratio Lower Upper

95 100

174 83.4 0.0 157.6

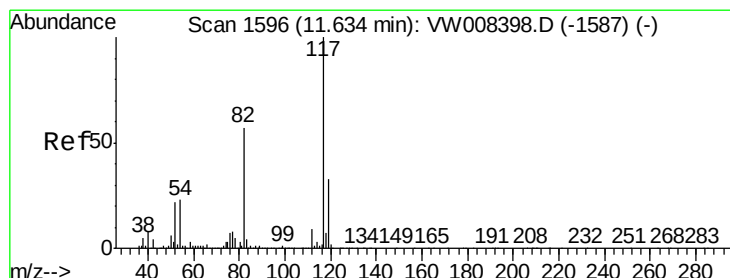
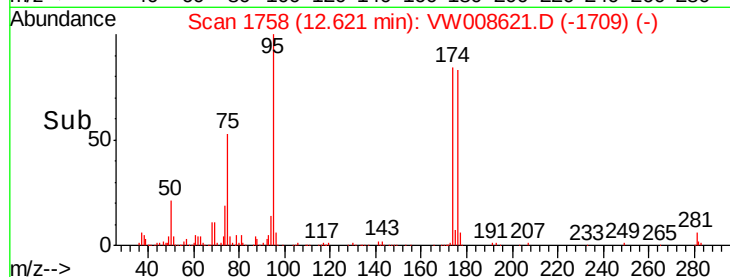
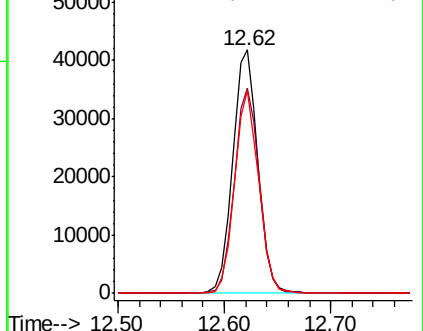
176 79.8 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

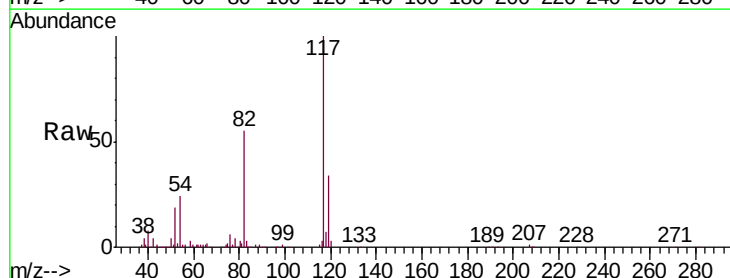
Tgt Ion: 117 Resp: 144916

Ion Ratio Lower Upper

117 100

82 54.9 45.4 68.0

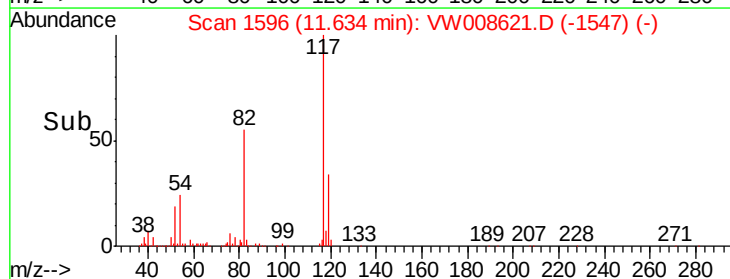
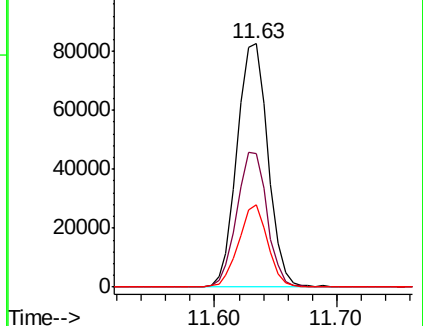
119 33.9 26.2 39.4

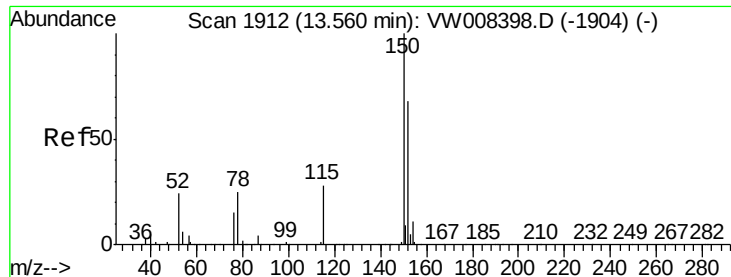


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

Instrument :

MSVOA\_W

ClientSampleId :

SB-6RE

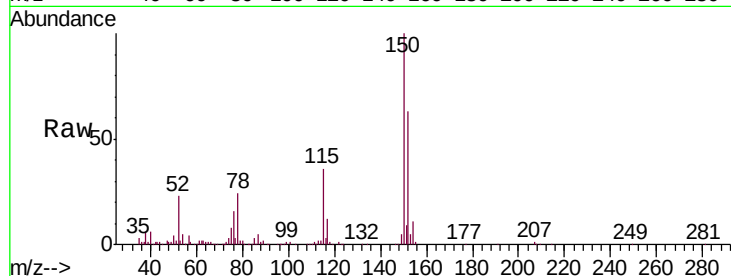
Tgt Ion: 152 Resp: 64623

Ion Ratio Lower Upper

152 100

115 58.4 29.9 89.7

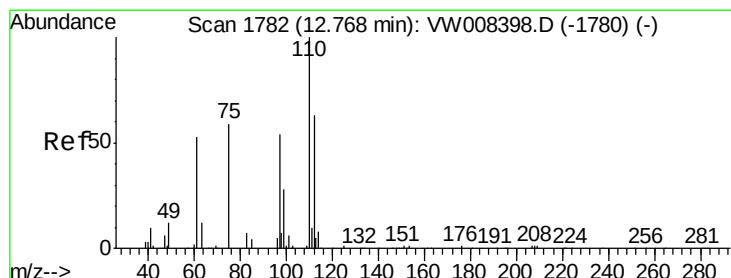
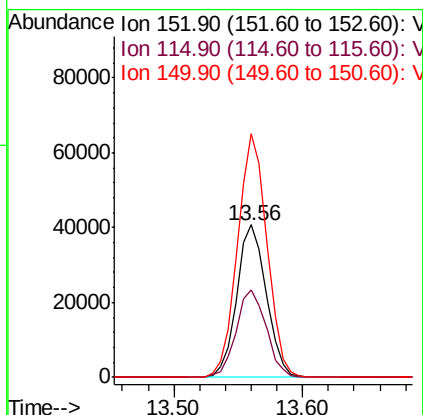
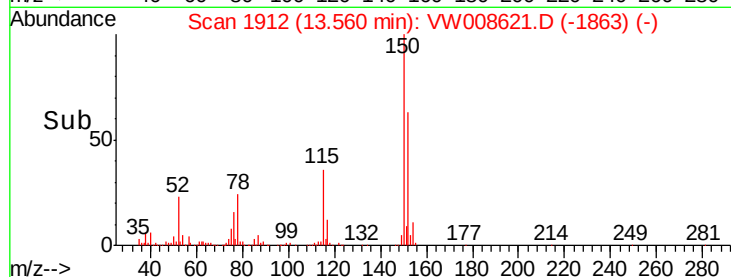
150 158.7 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 64.407 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008621.D

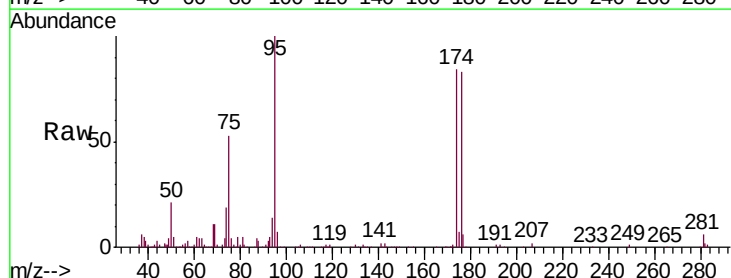
Acq: 12 Feb 2019 14:32

Tgt Ion: 75 Resp: 36187

Ion Ratio Lower Upper

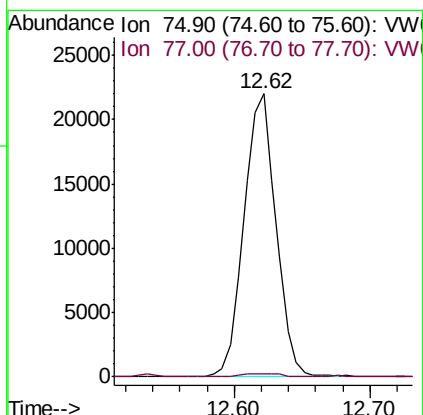
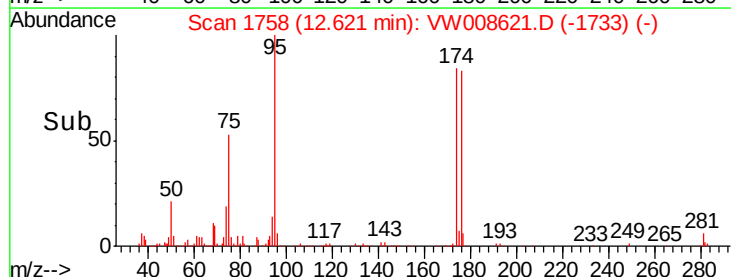
75 100

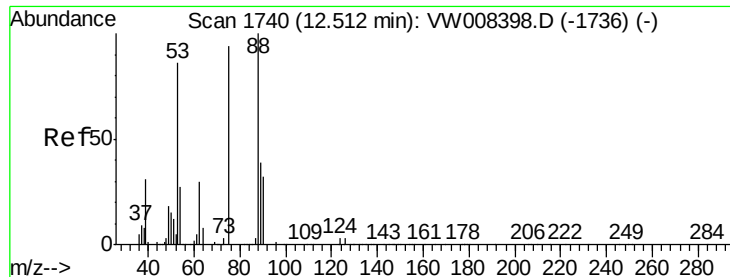
77 1.5 180.7 542.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 127.208 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008621.D

Acq: 12 Feb 2019 14:32

Instrument :

MSVOA\_W

ClientSampleId :

SB-6RE

Tgt Ion: 75 Resp: 36187

Ion Ratio Lower Upper

75 100

53 0.3 76.0 114.0#

89 0.3 35.4 53.0#

