

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122018\  
 Data File : VW007662.D  
 Acq On : 18 Dec 2018 16:52  
 Operator : SY/AP  
 Sample : J6379-08  
 Misc : 4.77G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 19 03:19:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 34893    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 70277    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 56282    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 17828    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|------------|---------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 35027      | 90.48   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 180.96% |       |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 28660      | 67.37   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 134.74% |       |          |
| 50) Toluene-d8              | 10.32 | 98   | 76450      | 47.93   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 95.86%  |       |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 21604      | 36.84   | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 73.68%  |       |          |

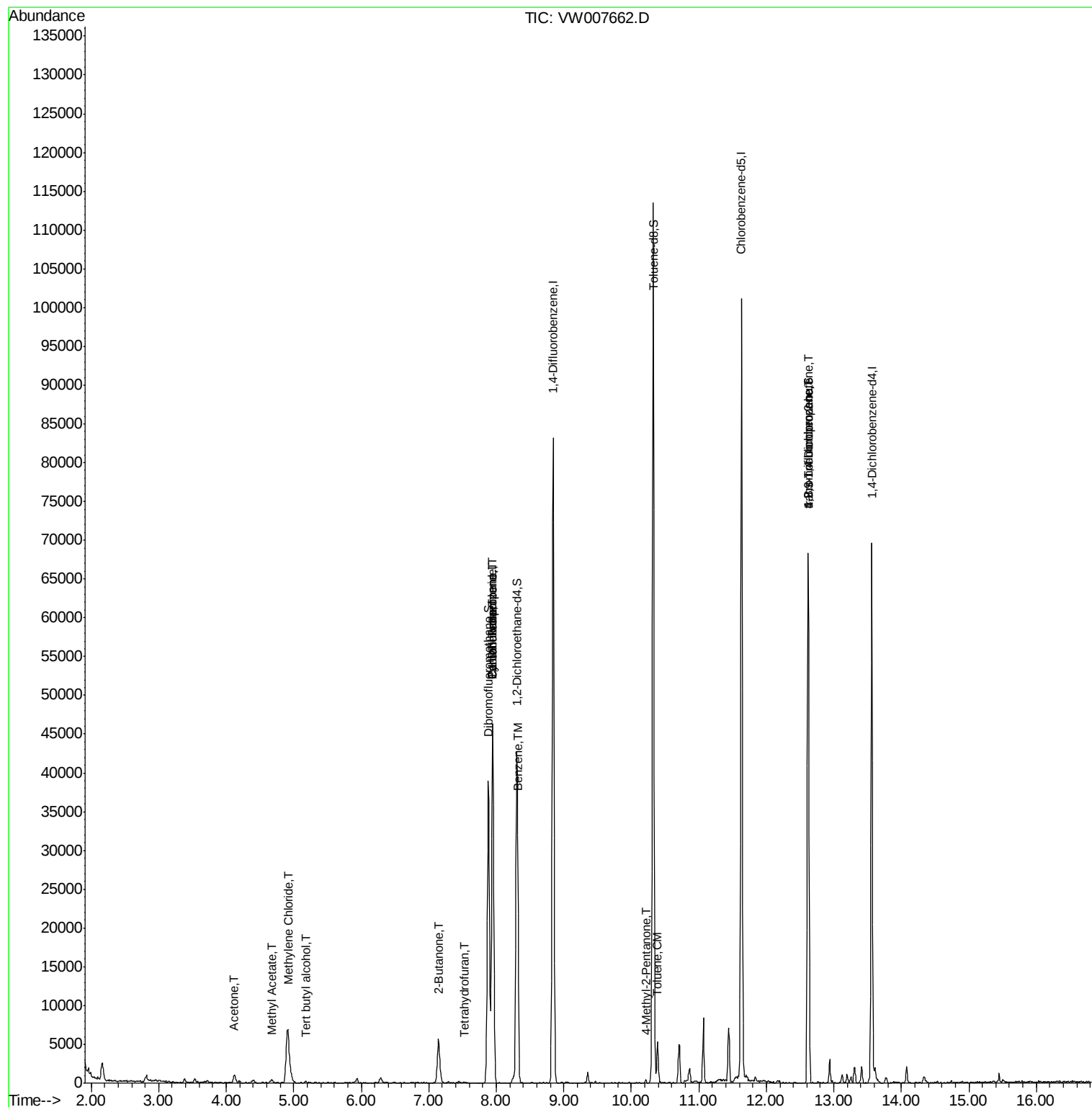
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59   | 202      | 7.598   | ug/l # | 74     |
| 16) Acetone                    | 4.11  | 43   | 1915     | 28.321  | ug/l # | 65     |
| 18) Methyl Acetate             | 4.68  | 43   | 964      | 5.253   | ug/l # | 59     |
| 20) Methylene Chloride         | 4.91  | 84   | 6790     | 15.673  | ug/l   | 95     |
| 25) 2-Butanone                 | 7.15  | 43   | 228      | 2.583   | ug/l # | 45     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 71       | 1.271   | ug/l # | 30     |
| 31) Cyclohexane                | 7.94  | 56   | 686      | 1.141   | ug/l # | 32     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 2672     | 4.168   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 3688     | 5.287   | ug/l # | 16     |
| 40) Benzene                    | 8.32  | 78   | 2492     | 1.401   | ug/l # | 73     |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 313      | 1.406   | ug/l # | 73     |
| 52) Toluene                    | 10.38 | 92   | 2388     | 2.074   | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 11091    | 75.451  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 11091    | 166.671 | ug/l # | 7      |

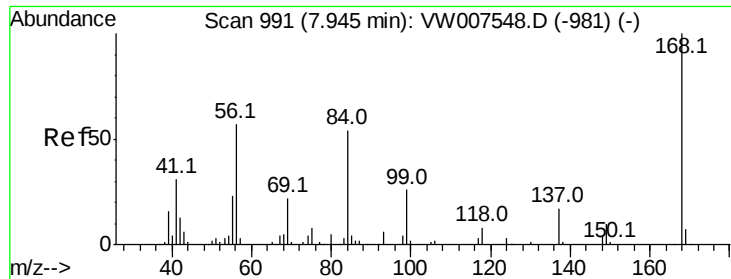
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampleId :

Quant Time: Dec 19 03:19:41 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

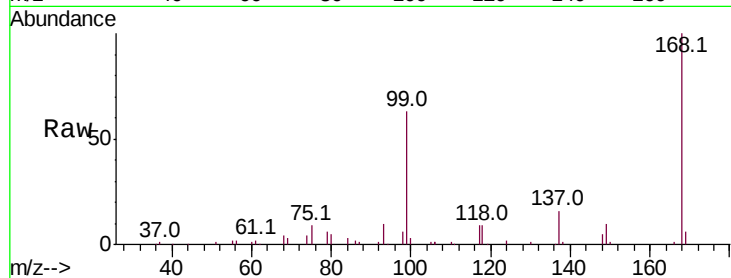
ClientSampled :

Tot Ion:168 Resp: 34893

Ion Ratio Lower Upper

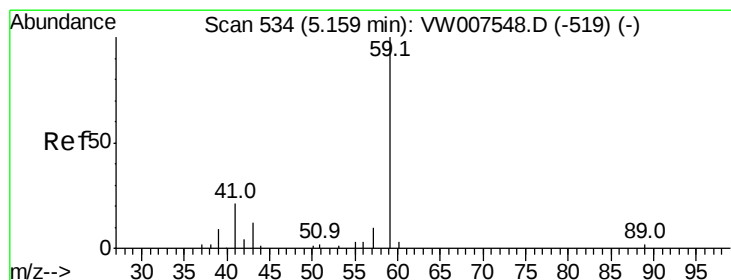
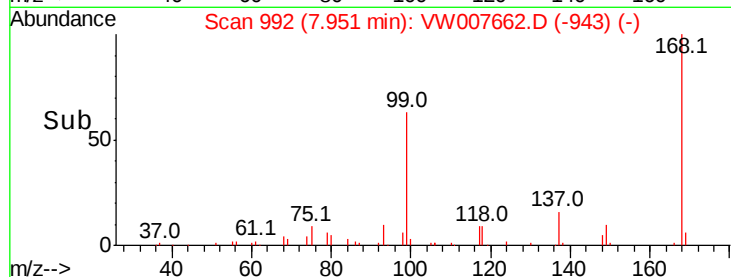
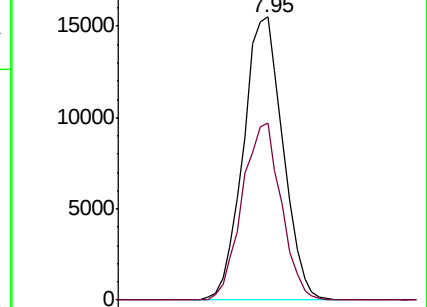
168 100

99 62.5 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 7.598 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW007662.D

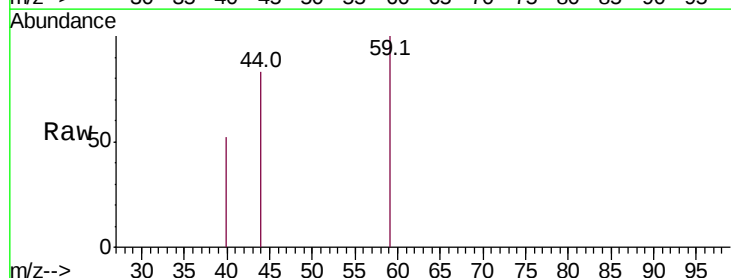
Acq: 18 Dec 2018 16:52

Tgt Ion: 59 Resp: 202

Ion Ratio Lower Upper

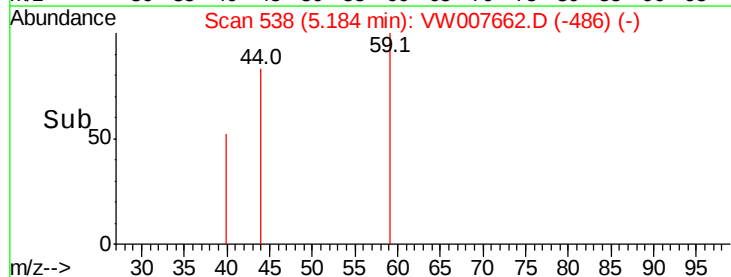
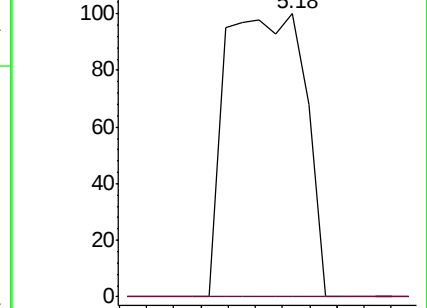
59 100

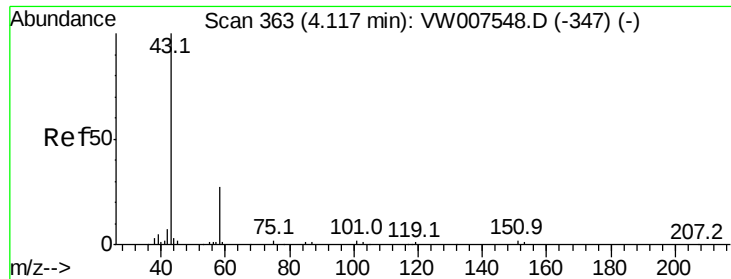
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 28.321 ug/l

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

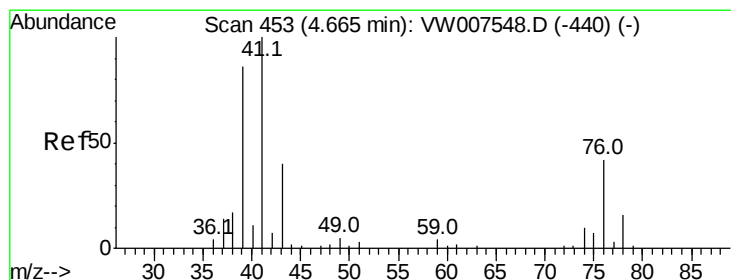
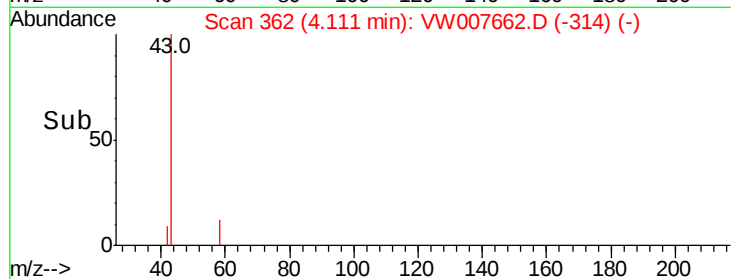
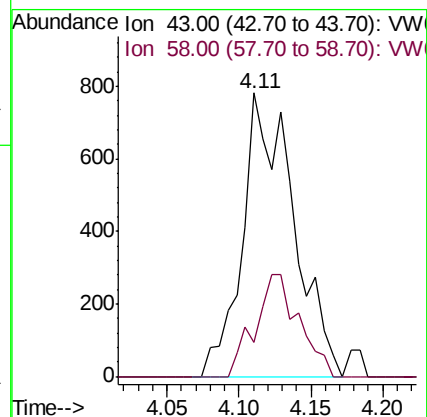
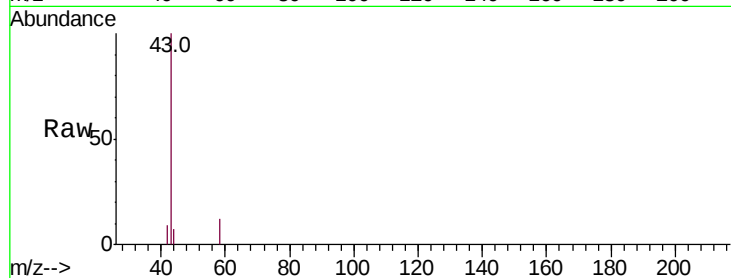
ClientSampled :

Tot Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

58 11.9 24.9 37.3#



#18

Methyl Acetate

Concen: 5.253 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW007662.D

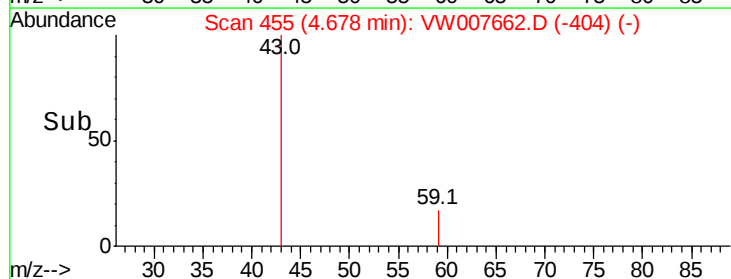
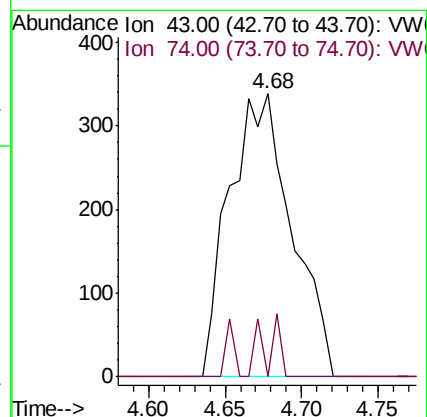
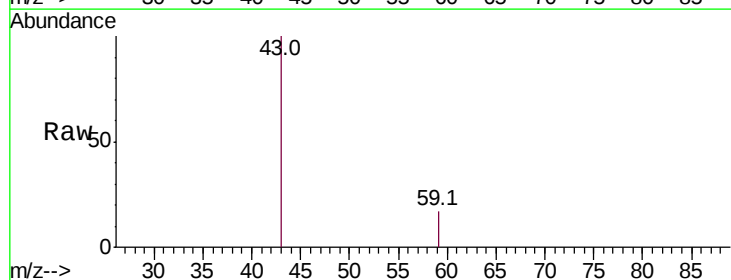
Acq: 18 Dec 2018 16:52

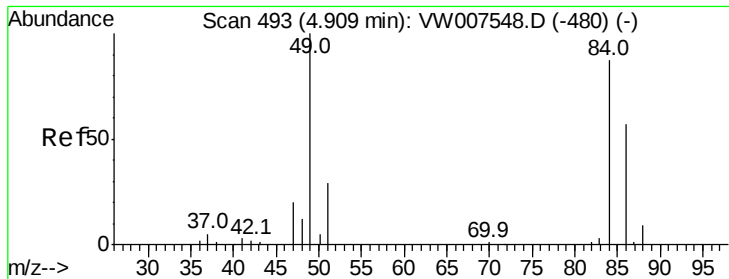
Tgt Ion: 43 Resp: 964

Ion Ratio Lower Upper

43 100

74 5.5 21.1 31.7#

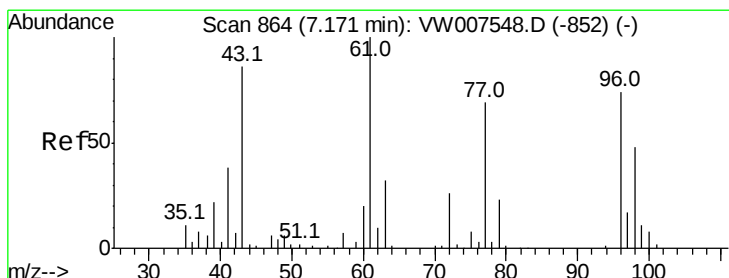
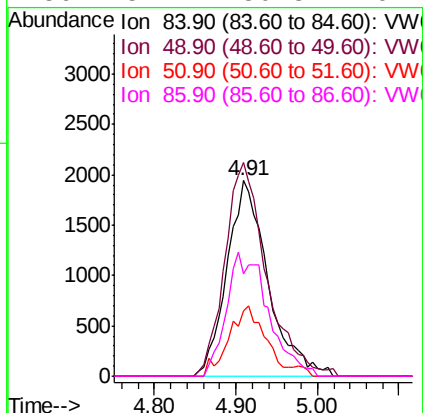
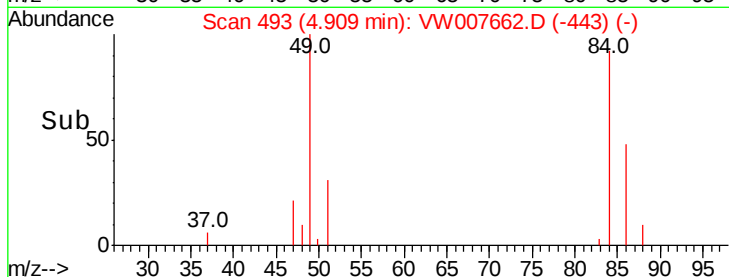
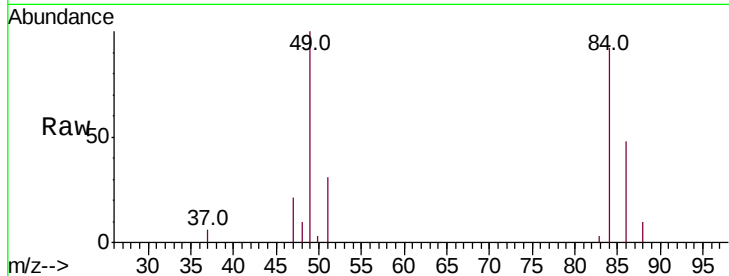




#20  
Methvlene Chloride  
Concen: 15.673 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. 0.01 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

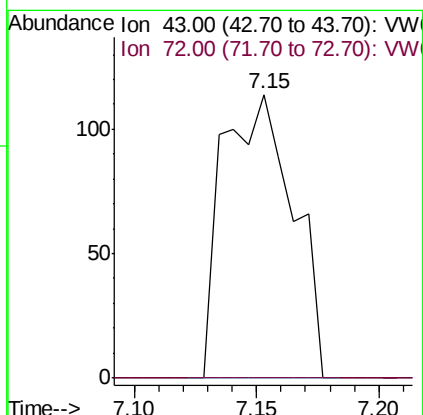
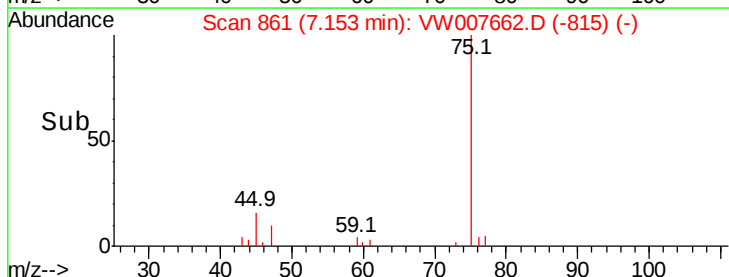
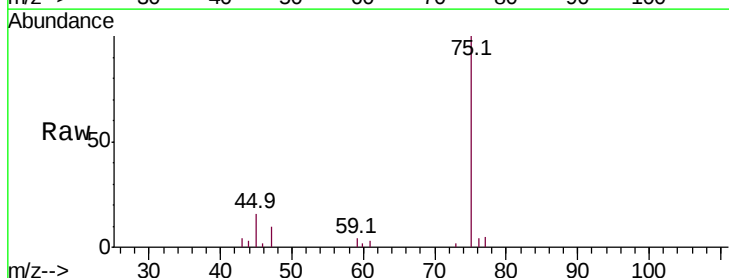
Instrument :  
MSVOA\_W  
ClientSampleId :

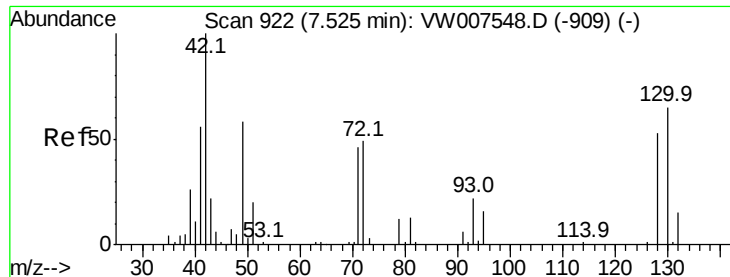
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 6790  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 109.2 | 87.1  | 130.7 |
| 51       | 33.5  | 28.2  | 42.2  |
| 86       | 52.2  | 50.8  | 76.2  |



#25  
2-Butanone  
Concen: 2.583 ug/l  
RT: 7.15 min Scan# 861  
Delta R.T. -0.02 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 228   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 23.4  | 35.2# |





#29

Tetrahydrofuran

Concen: 1.271 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

ClientSampled :

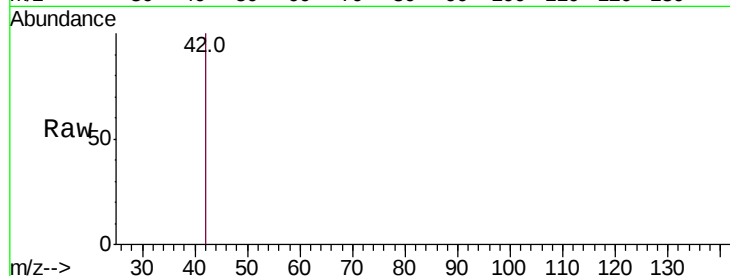
Tot Ion: 42 Resp: 71

Ion Ratio Lower Upper

42 100

72 0.0 38.2 57.4#

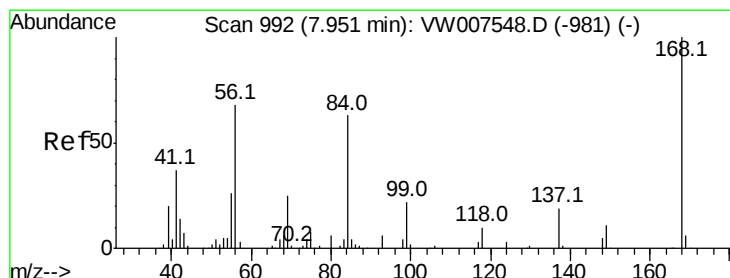
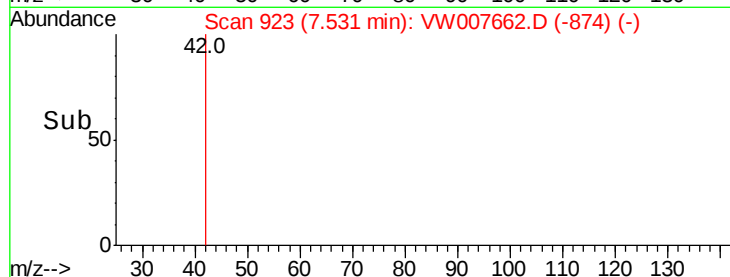
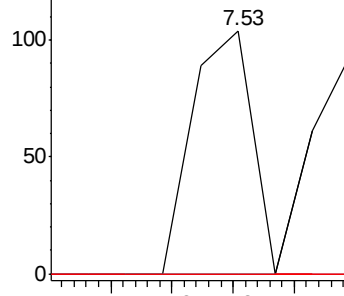
71 0.0 35.5 53.3#



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: 1.141 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

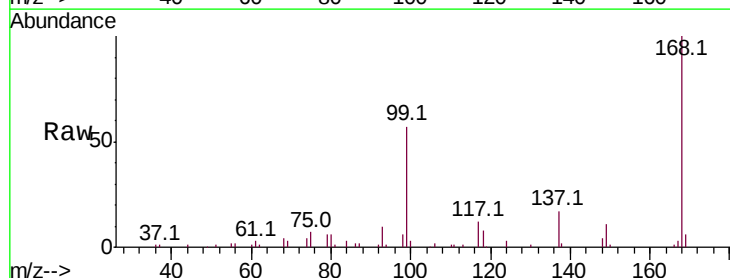
Tgt Ion: 56 Resp: 686

Ion Ratio Lower Upper

56 100

69 129.8 28.9 43.3#

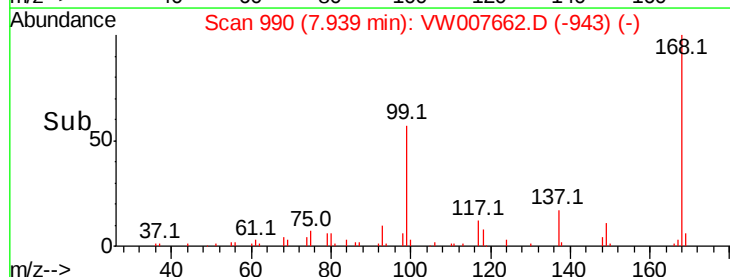
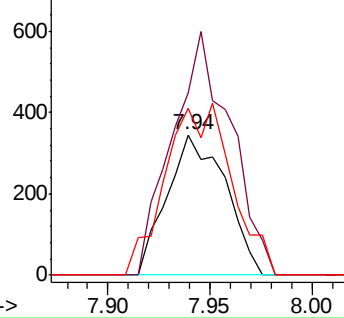
84 118.8 71.8 107.6#

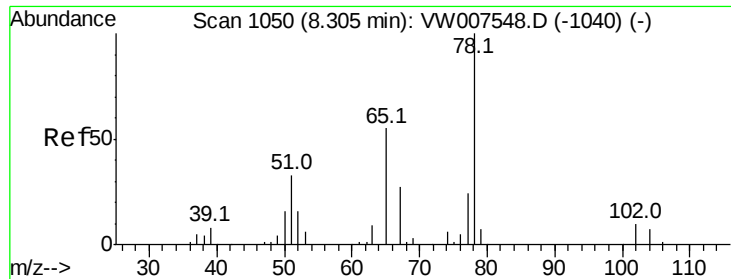


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

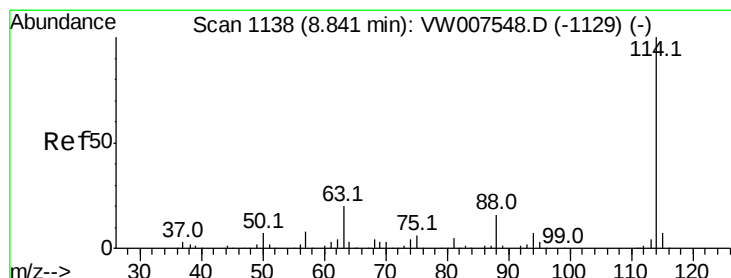
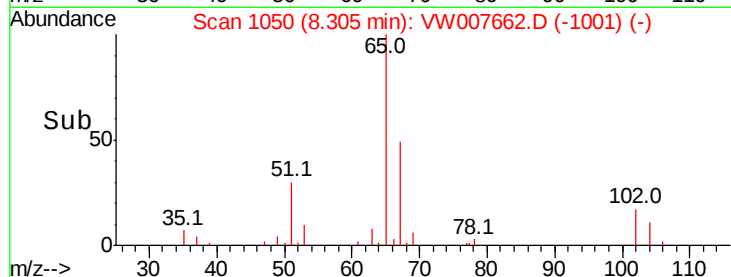
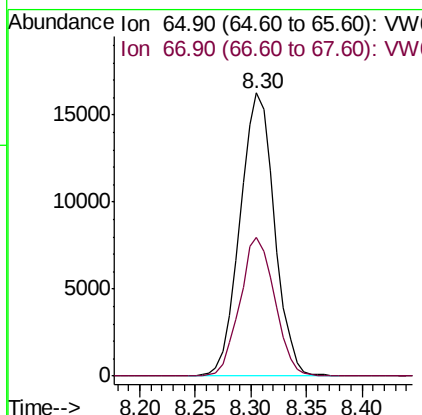
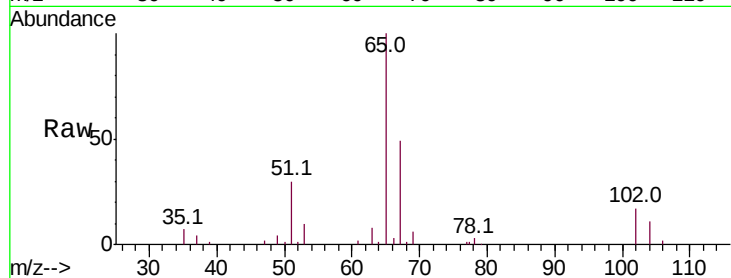




#33  
 1,2-Dichloroethane-d4  
 Concen: 90.483 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007662.D  
 Acq: 18 Dec 2018 16:52

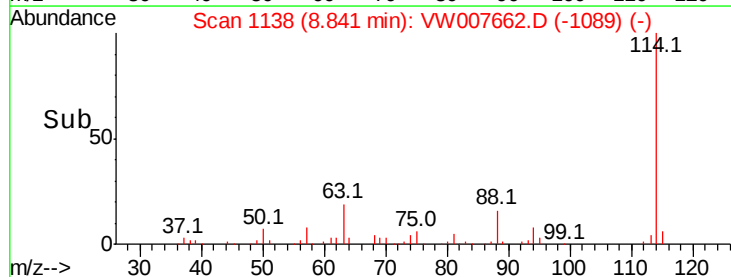
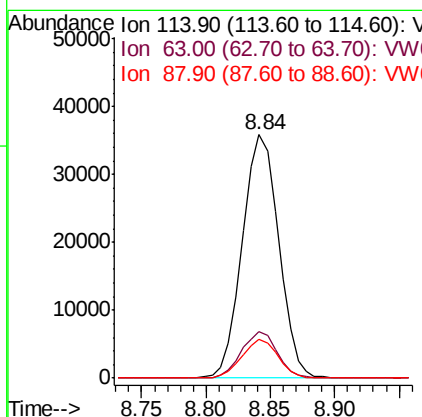
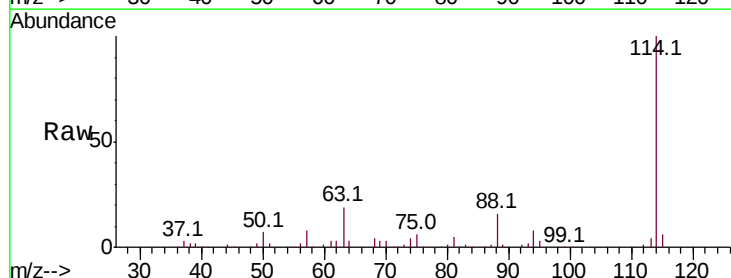
Instrument :  
 MSVOA\_W  
 ClientSampleId :

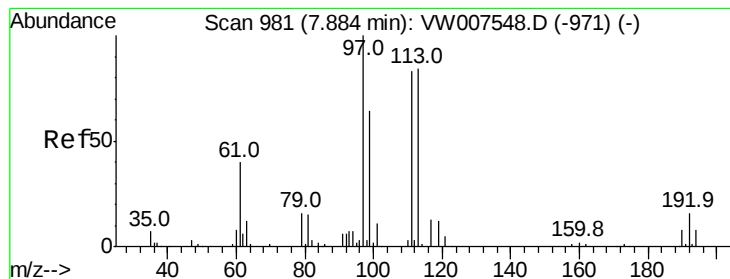
Tot Ion: 65 Resp: 35027  
 Ion Ratio Lower Upper  
 65 100  
 67 49.3 0.0 101.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007662.D  
 Acq: 18 Dec 2018 16:52

Tgt Ion: 114 Resp: 70277  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 39.6  
 88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 67.370 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :  
MSVOA\_W  
ClientSampleId :

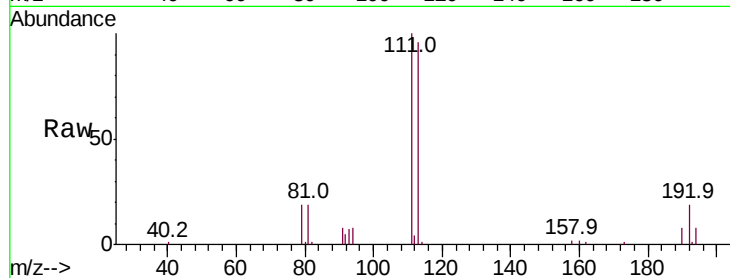
Tot Ion:113 Resp: 28660

Ion Ratio Lower Upper

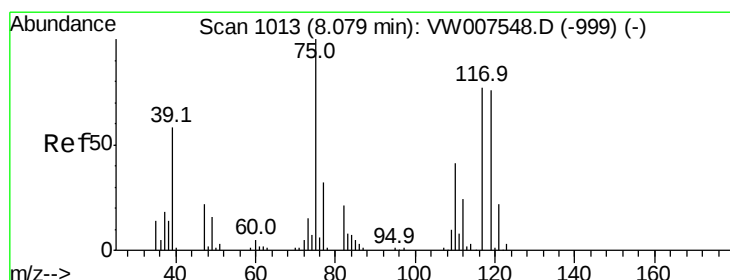
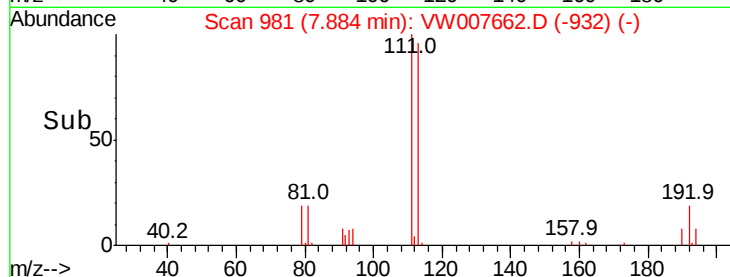
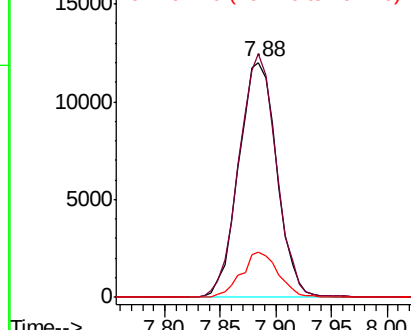
113 100

111 101.6 81.1 121.7

192 18.6 14.6 21.8



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.168 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

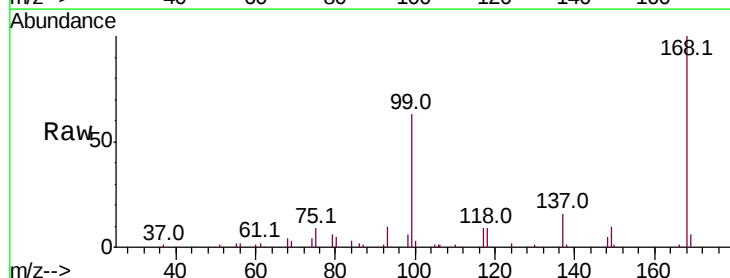
Tgt Ion: 75 Resp: 2672

Ion Ratio Lower Upper

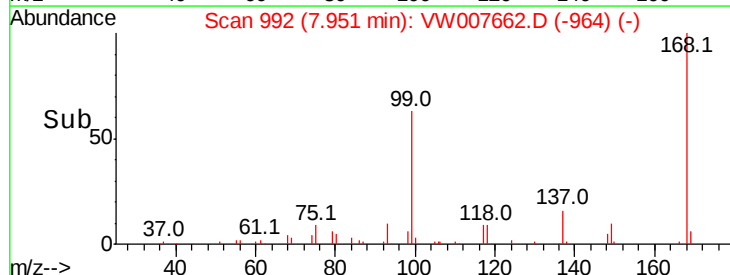
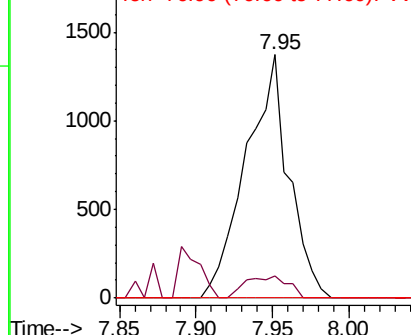
75 100

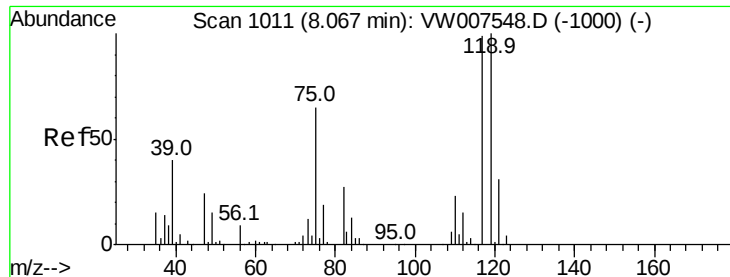
110 9.0 18.5 55.5#

77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VW

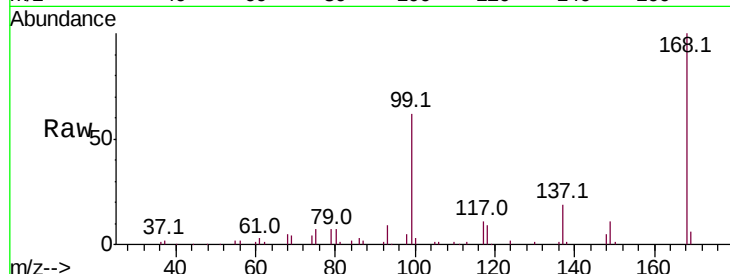




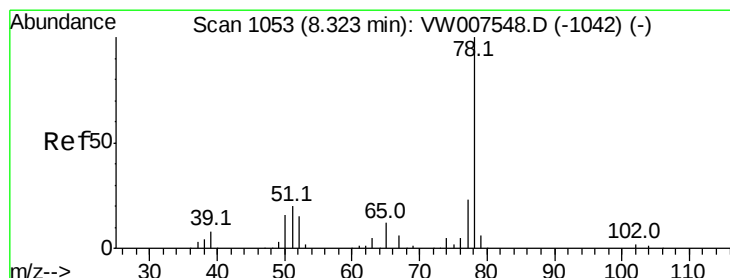
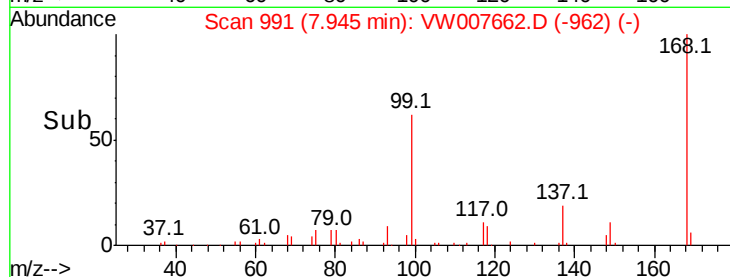
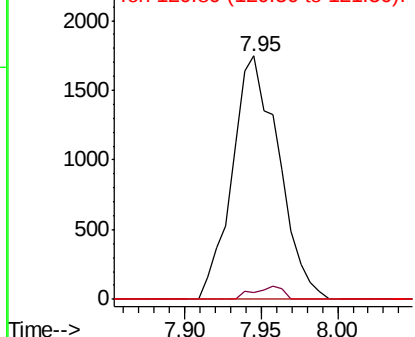
#38  
Carbon Tetrachloride  
Concen: 5.287 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 3688  
Ion Ratio Lower Upper  
117 100  
119 3.0 74.3 111.5#  
121 0.0 24.3 36.5#

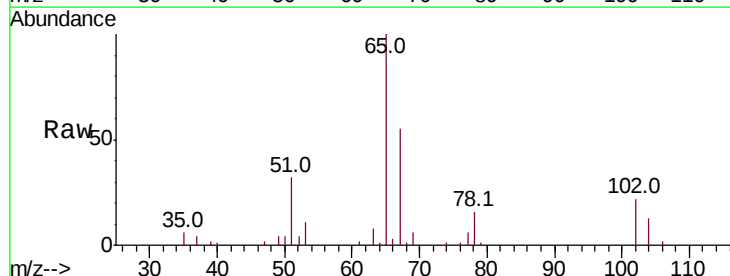


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

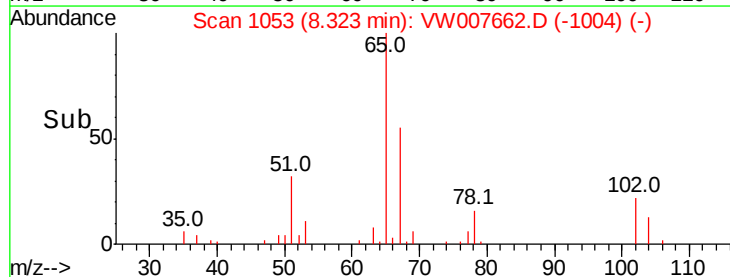
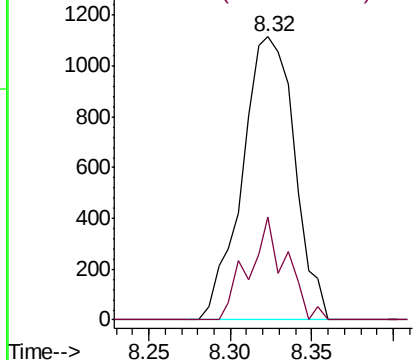


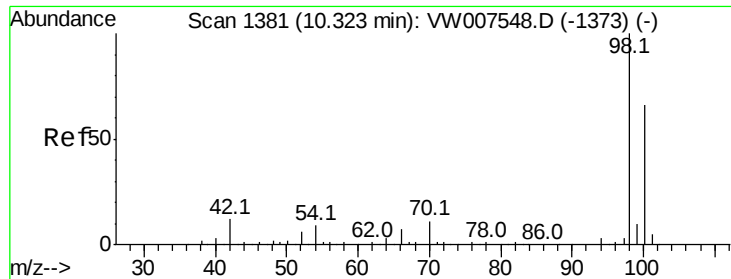
#40  
Benzene  
Concen: 1.401 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

Tgt Ion: 78 Resp: 2492  
Ion Ratio Lower Upper  
78 100  
77 36.6 18.8 28.2#



Abundance Ion 78.00 (77.70 to 78.70): VW  
Ion 77.00 (76.70 to 77.70): VW





#50

Toluene-d8

Concen: 47.929 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

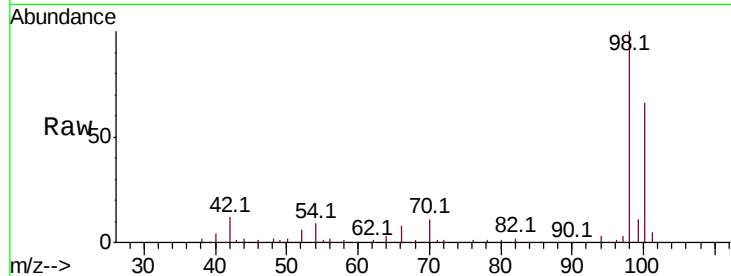
ClientSampleId :

Tot Ion: 98 Resp: 76450

Ion Ratio Lower Upper

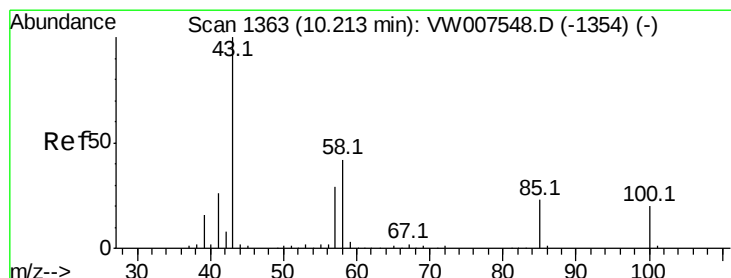
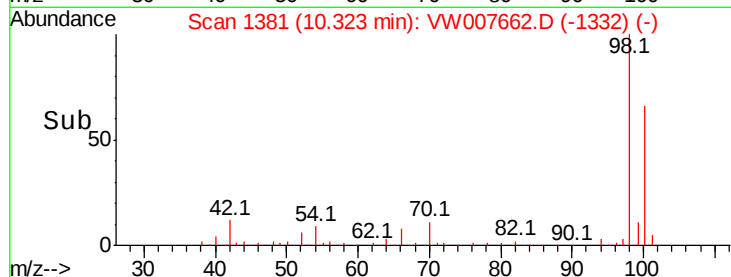
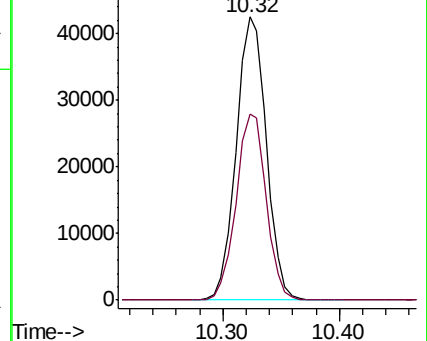
98 100

100 65.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.406 ug/l

RT: 10.23 min Scan# 1365

Delta R.T. 0.02 min

Lab File: VW007662.D

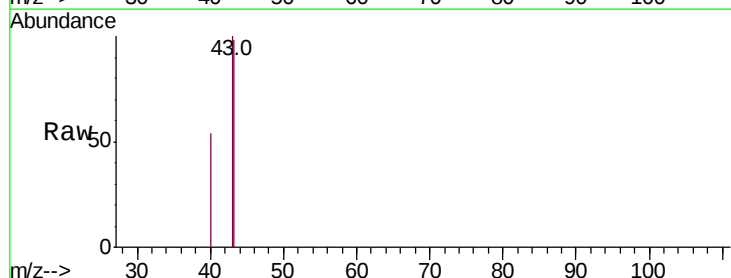
Acq: 18 Dec 2018 16:52

Tgt Ion: 43 Resp: 313

Ion Ratio Lower Upper

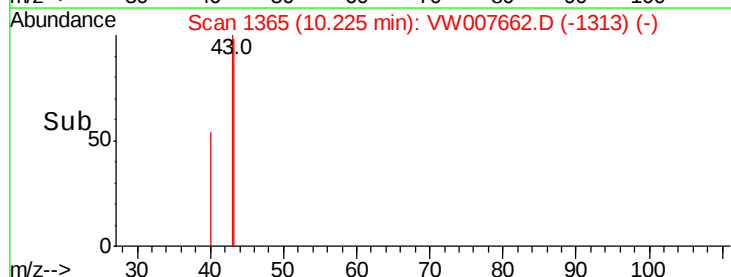
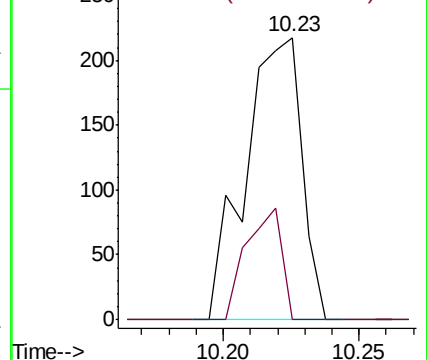
43 100

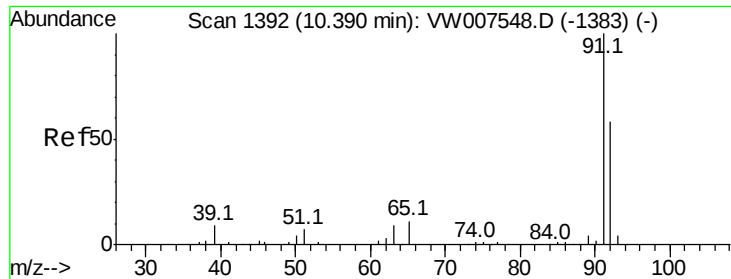
58 24.6 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 2.074 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

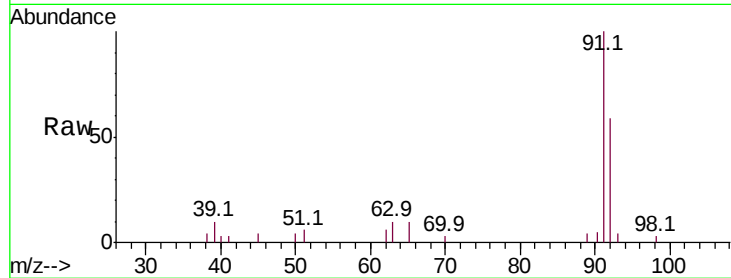
ClientSampled :

Tot Ion: 92 Resp: 2388

Ion Ratio Lower Upper

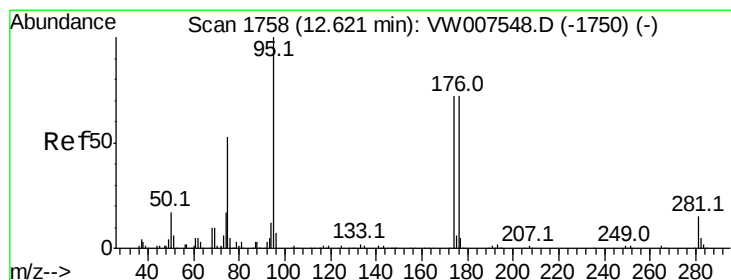
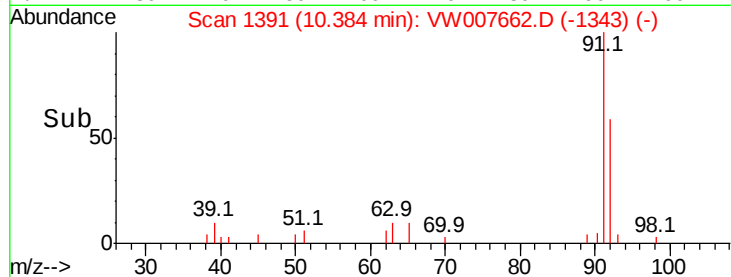
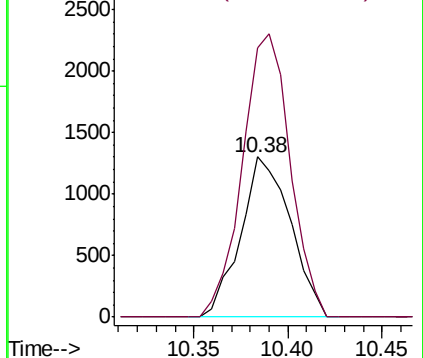
92 100

91 169.4 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 36.838 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

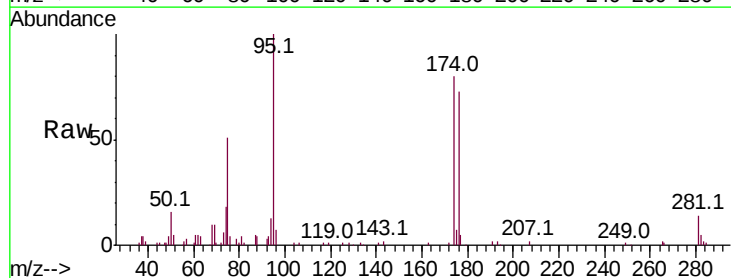
Tgt Ion: 95 Resp: 21604

Ion Ratio Lower Upper

95 100

174 78.1 0.0 147.2

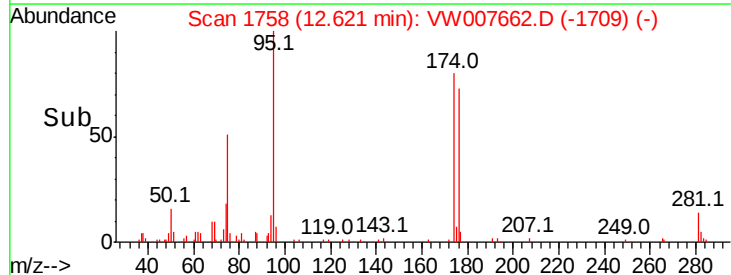
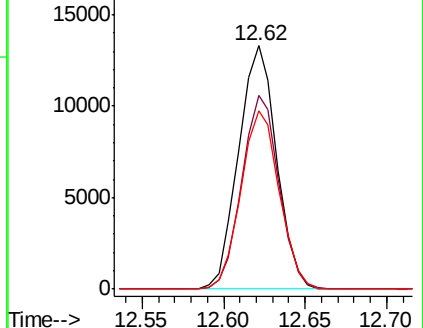
176 74.0 0.0 138.8

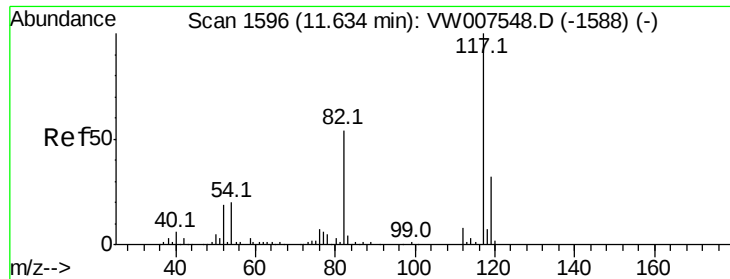


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

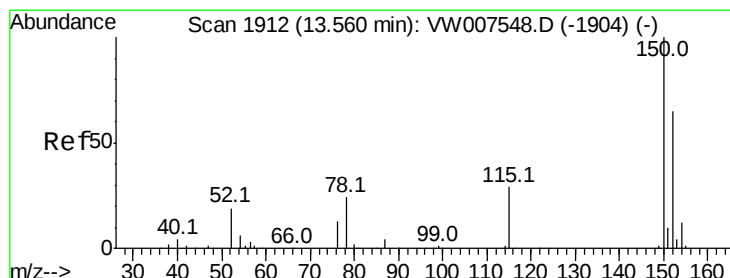
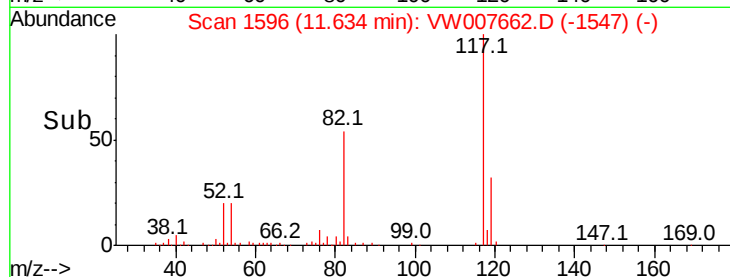
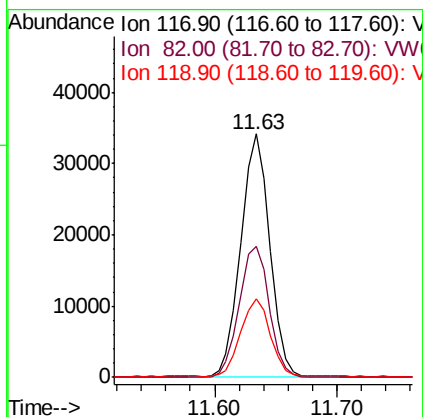
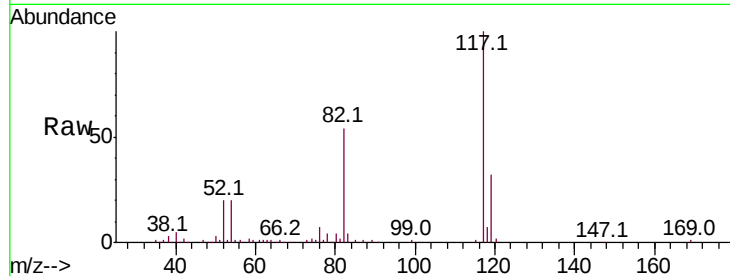




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

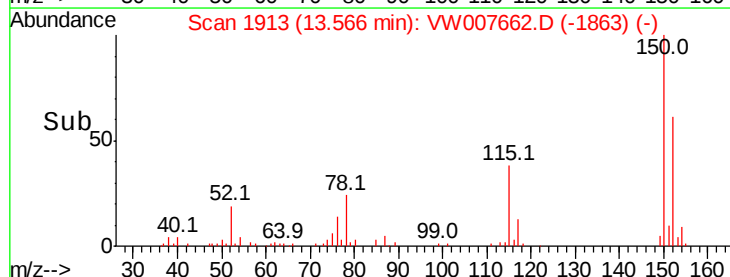
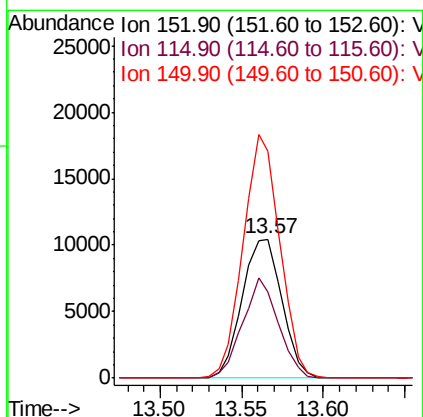
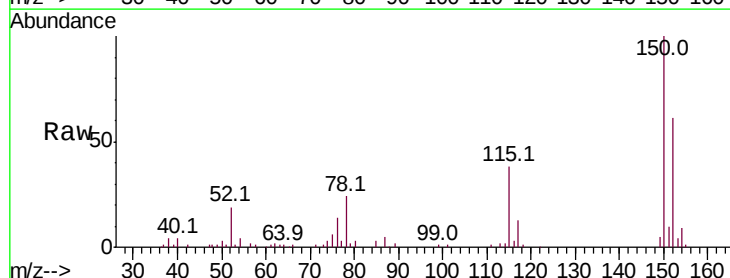
Instrument :  
MSVOA\_W  
ClientSampled :

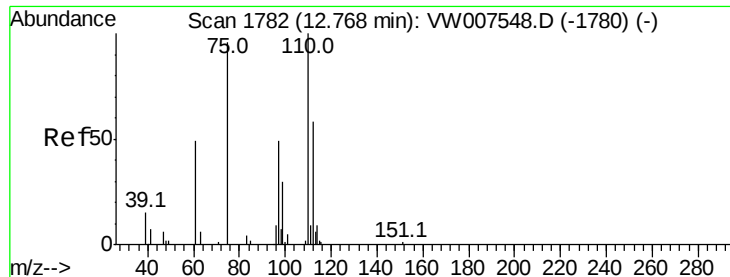
Tot Ion:117 Resp: 56282  
Ion Ratio Lower Upper  
117 100  
82 54.0 42.3 63.5  
119 31.5 23.0 34.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. 0.01 min  
Lab File: VW007662.D  
Acq: 18 Dec 2018 16:52

Tgt Ion:152 Resp: 17828  
Ion Ratio Lower Upper  
152 100  
115 64.4 31.4 94.2  
150 160.9 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 75.451 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

Instrument :

MSVOA\_W

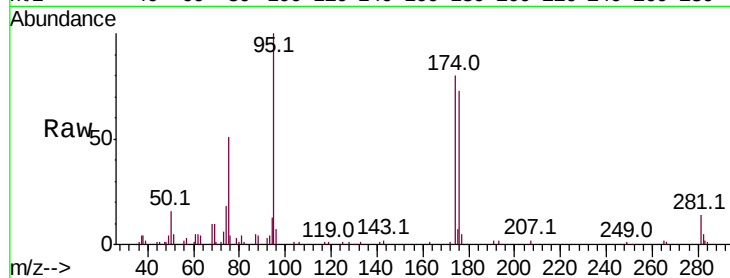
ClientSampleId :

Tot Ion: 75 Resp: 11091

Ion Ratio Lower Upper

75 100

77 0.8 166.9 500.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

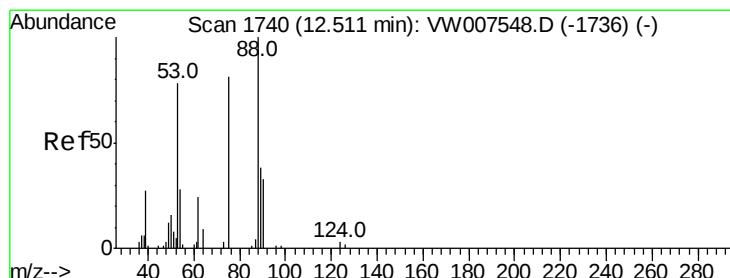
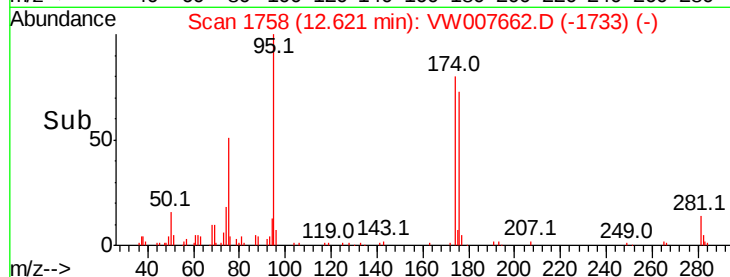
6000

4000

2000

0

Time--> 12.55 12.60 12.65



#81

trans-1,4-Dichloro-2-butene

Concen: 166.671 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007662.D

Acq: 18 Dec 2018 16:52

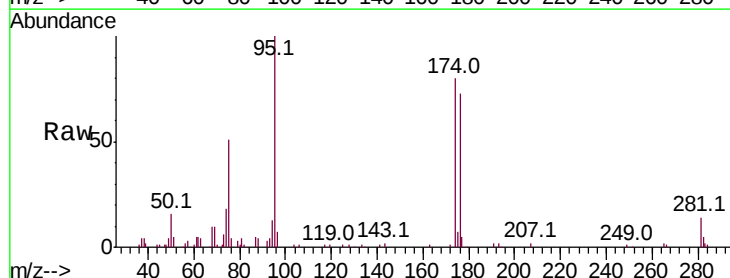
Tgt Ion: 75 Resp: 11091

Ion Ratio Lower Upper

75 100

53 0.0 84.9 127.3#

89 0.0 40.3 60.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

12.62

8000

6000

4000

2000

0

Time--> 12.55 12.60 12.65

