

Data Path : W:\HPCHEM1\MSVOA\_W\DATA\VW052518\  
 Data File : VW002880.D  
 Acq On : 25 May 2018 18:16  
 Operator : JC/SY  
 Sample : J3078-13  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 26 00:41:41 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W051518S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 15 03:32:11 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 137355   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 213826   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 178297   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 66136    | 50.00 | ug/l  | 0.00     |

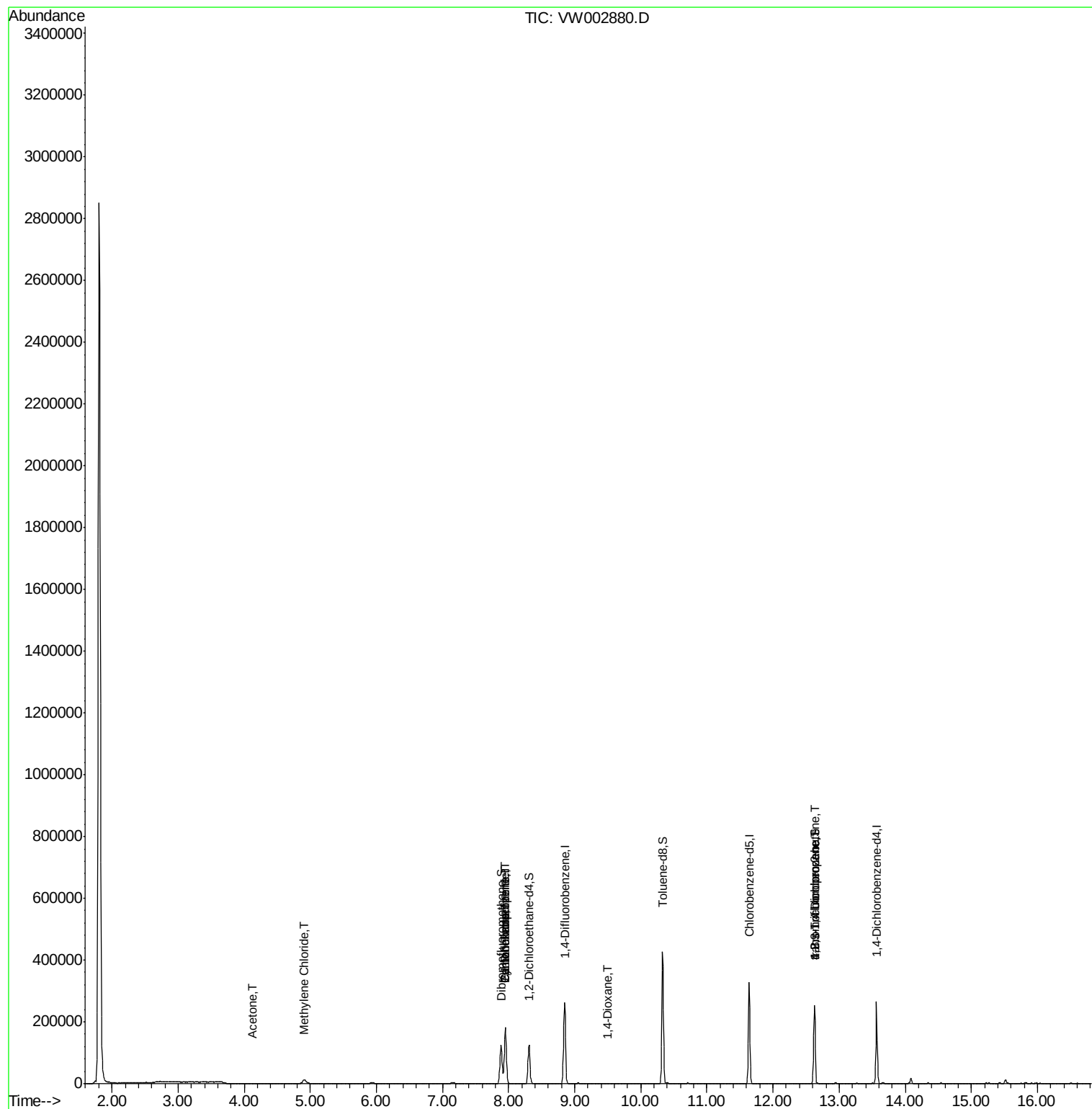
|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 95209    | 67.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 134.16% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 86638    | 63.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 127.74% |      |
| 50) Toluene-d8              | 10.33  | 98  | 273162   | 52.93 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.86% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 74154    | 39.29 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.58%  |      |

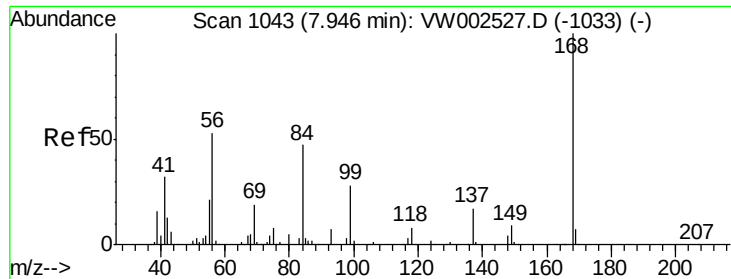
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 4.14  | 43   | 992      | 3.31   | ug/l # | 85     |
| 20) Methylene Chloride         | 4.91  | 84   | 10694    | 6.58   | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 3314     | 1.64   | ug/l # | 45     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 10812    | 5.73   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 13305    | 7.20   | ug/l # | 19     |
| 49) 1,4-Dioxane                | 9.50  | 88   | 19       | 1.45   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 38512    | 61.60  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 38512    | 167.96 | ug/l # | 8      |

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VW002880.D

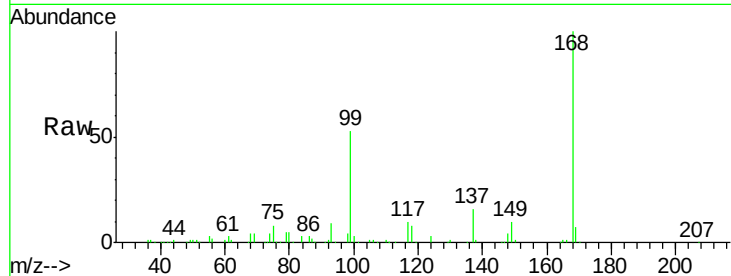
Acq: 25 May 2018 18:16

Tgt Ion: 168 Resp: 137355

Ion Ratio Lower Upper

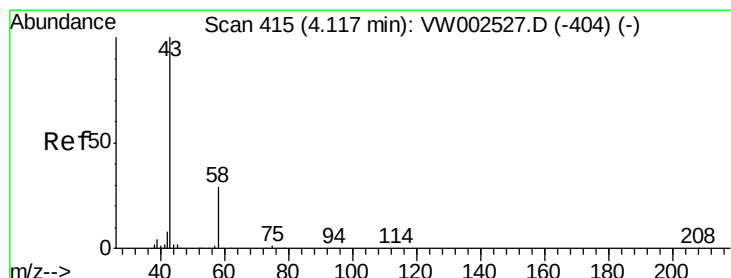
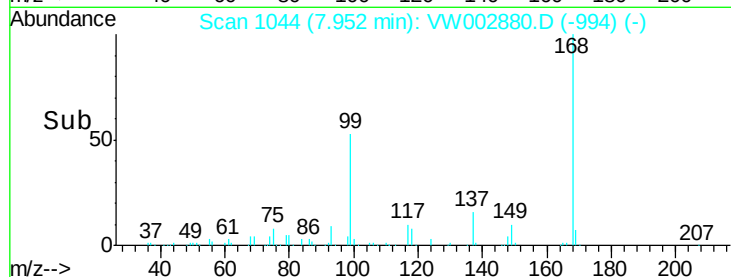
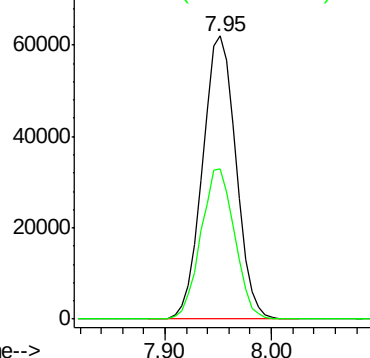
168 100

99 53.3 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 3.31 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.02 min

Lab File: VW002880.D

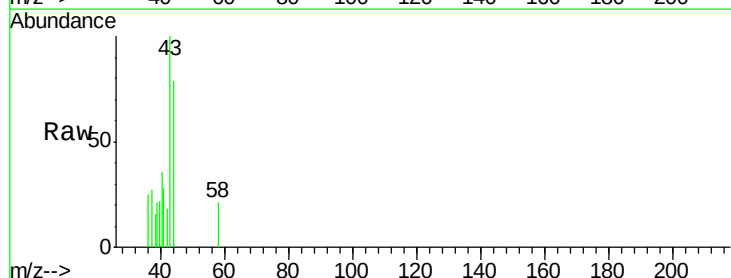
Acq: 25 May 2018 18:16

Tgt Ion: 43 Resp: 992

Ion Ratio Lower Upper

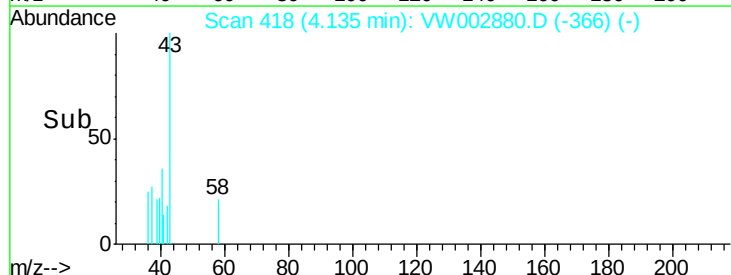
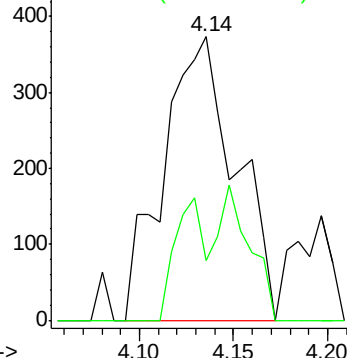
43 100

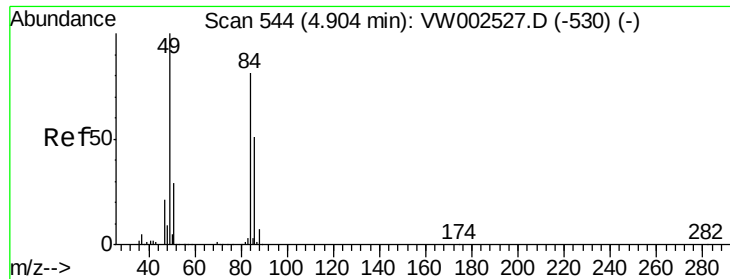
58 20.9 23.4 35.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 6.58 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.01 min

Lab File: VW002880.D

Acq: 25 May 2018 18:16

Tgt Ion: 84 Resp: 10694

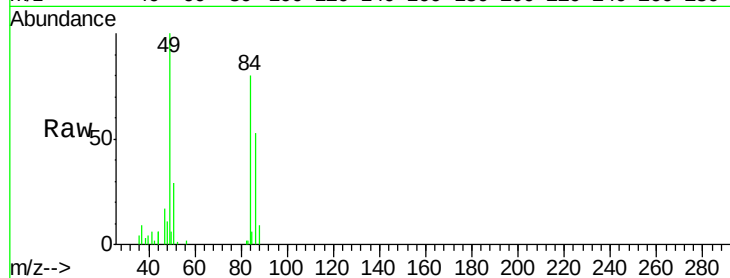
Ion Ratio Lower Upper

84 100

49 121.5 99.4 149.0

51 36.4 29.0 43.6

86 65.7 50.3 75.5

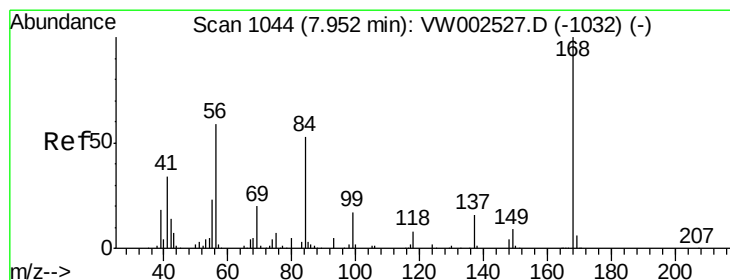
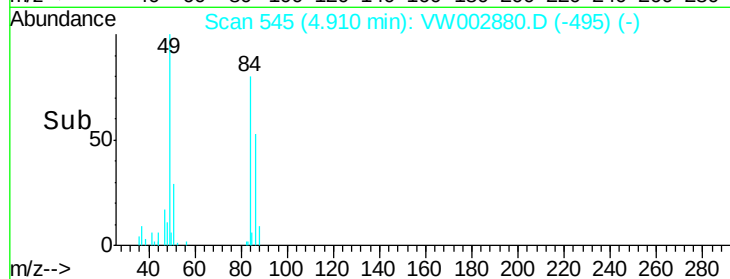
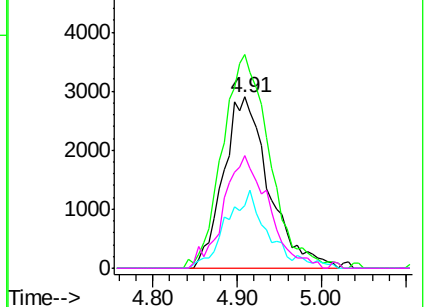


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#31

Cyclohexane

Concen: 1.64 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW002880.D

Acq: 25 May 2018 18:16

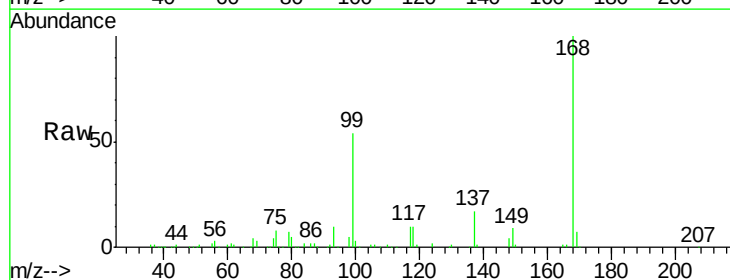
Tgt Ion: 56 Resp: 3314

Ion Ratio Lower Upper

56 100

69 138.8 27.0 40.4#

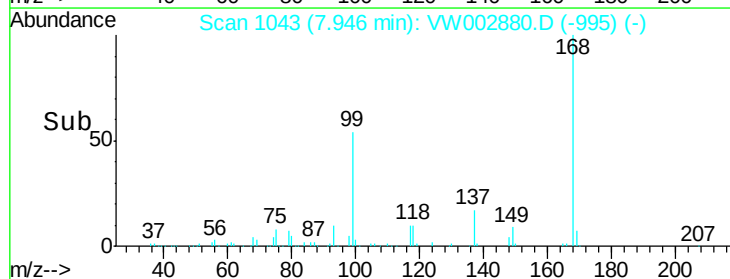
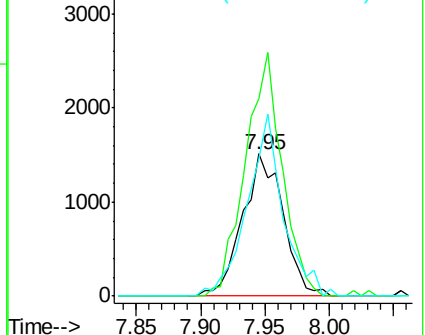
84 96.4 72.2 108.2

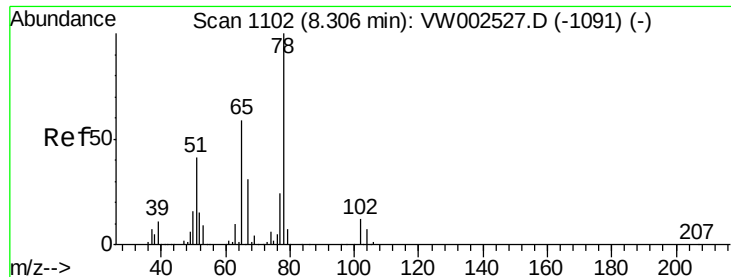


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

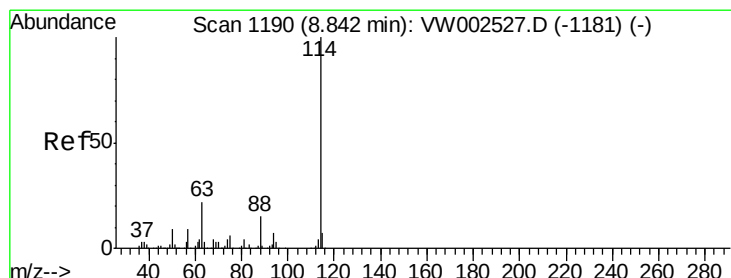
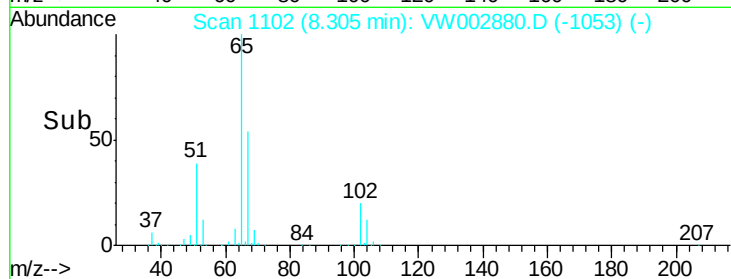
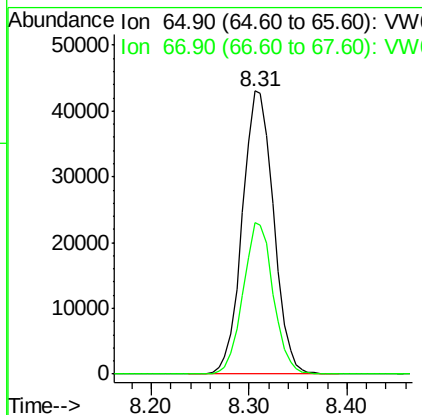
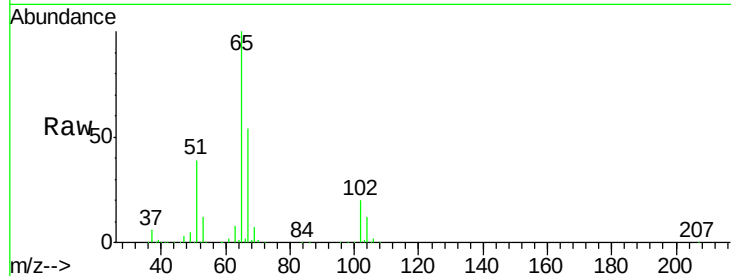
Ion 84.00 (83.70 to 84.70): VW





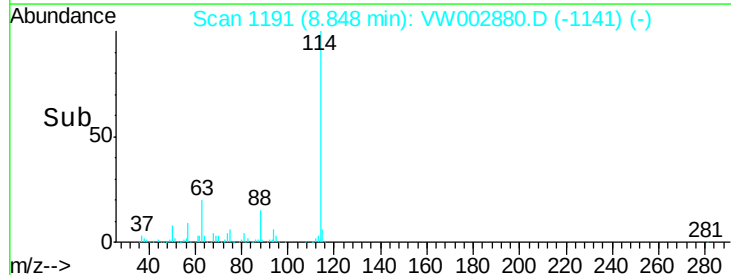
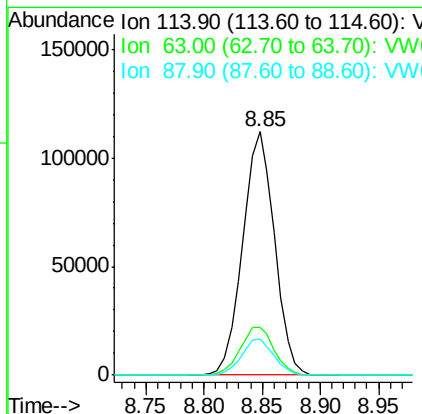
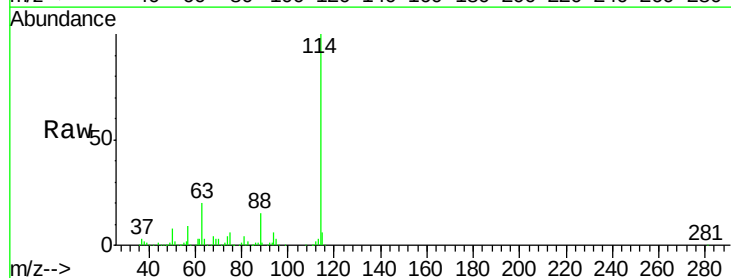
#33  
 1,2-Dichloroethane-d4  
 Concen: 67.08 ug/l  
 RT: 8.31 min Scan# 1102  
 Delta R.T. -0.00 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

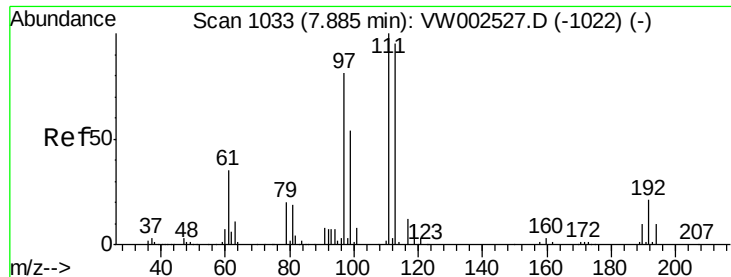
Tgt Ion: 65 Resp: 95209  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.01 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

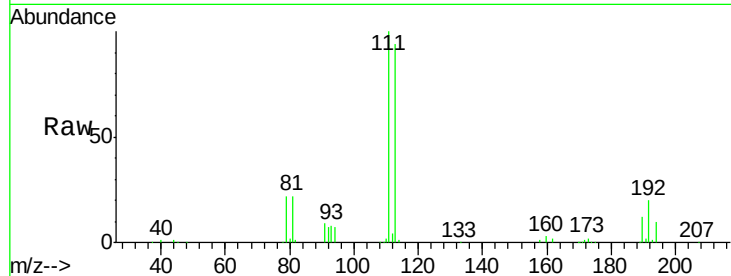
Tgt Ion: 114 Resp: 213826  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 43.2  
 88 14.7 0.0 29.2



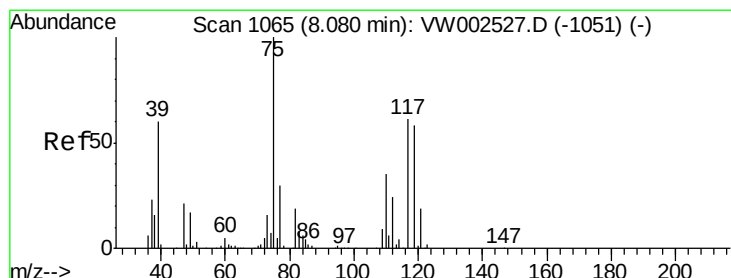
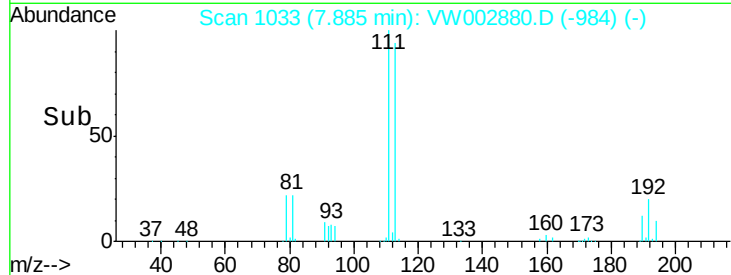
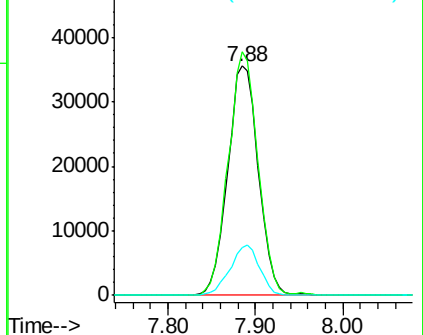


#35  
 Dibromofluoromethane  
 Concen: 63.87 ug/l  
 RT: 7.88 min Scan# 1033  
 Delta R.T. -0.00 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 81.8  | 122.8 |
| 192     | 21.1  | 17.5  | 26.3  |

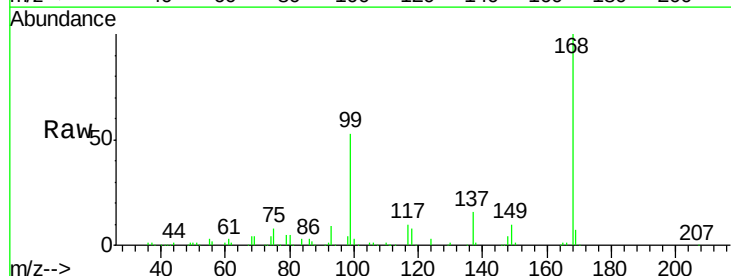


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

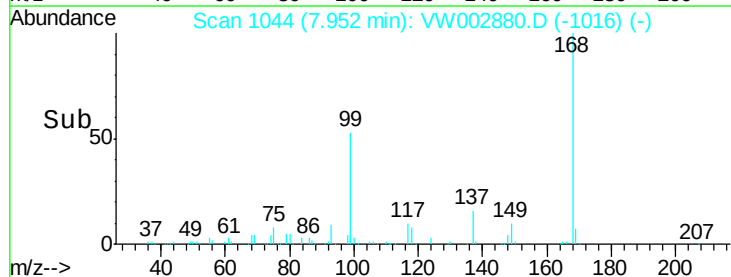
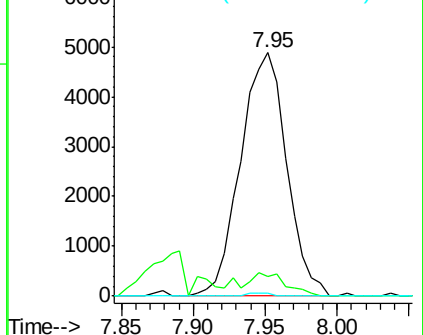


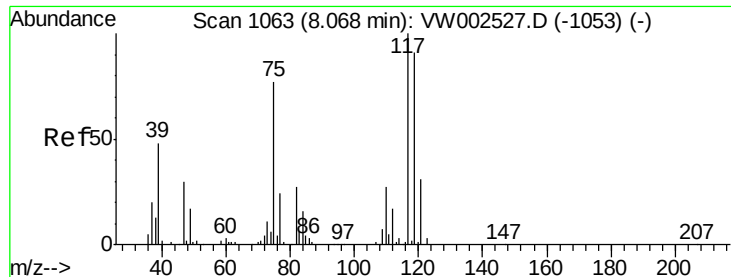
#36  
 1,1-Dichloropropene  
 Concen: 5.73 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 17.8  | 53.5# |
| 77      | 0.6   | 24.5  | 36.7# |



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: 7.20 ug/l

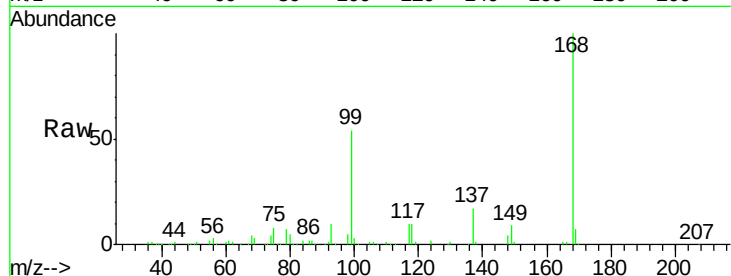
RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

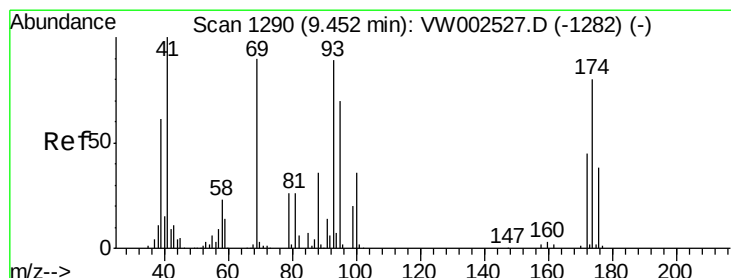
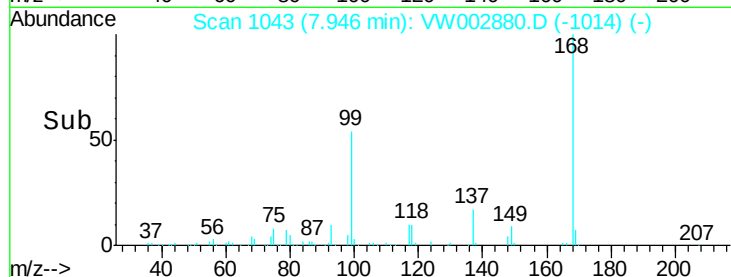
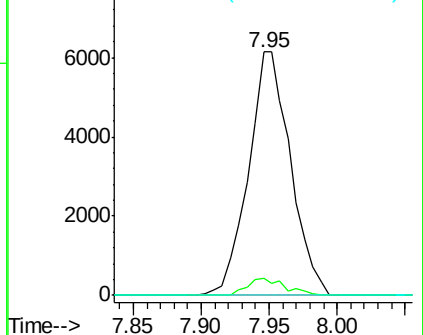
Lab File: VW002880.D

Acq: 25 May 2018 18:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13305  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.8   | 73.1  | 109.7# |
| 121      | 0.0   | 24.4  | 36.6#  |



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



#49

1,4-Dioxane

Concen: 1.45 ug/l

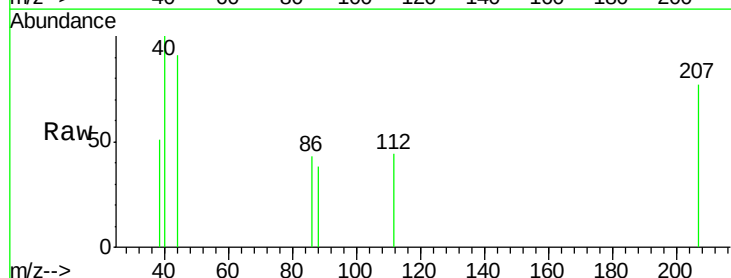
RT: 9.50 min Scan# 1298

Delta R.T. 0.05 min

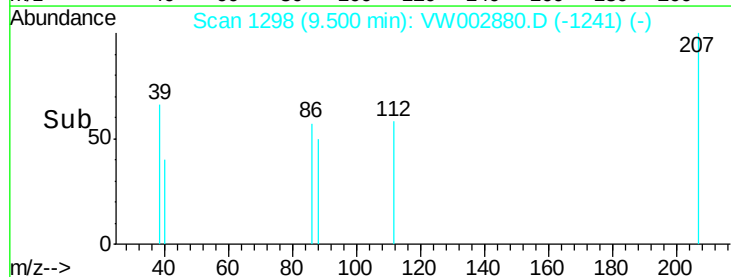
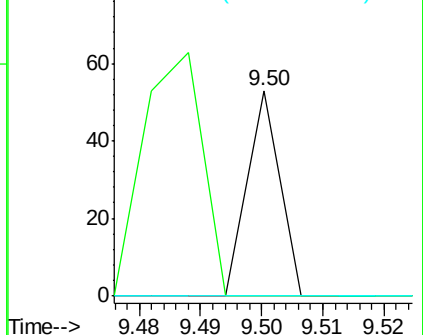
Lab File: VW002880.D

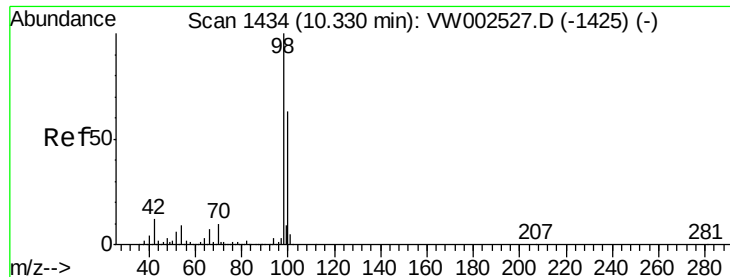
Acq: 25 May 2018 18:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 19    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 221.1 | 27.0  | 40.4# |
| 58       | 0.0   | 56.9  | 85.3# |



Abundance Ion 88.00 (87.70 to 88.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 52.93 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002880.D

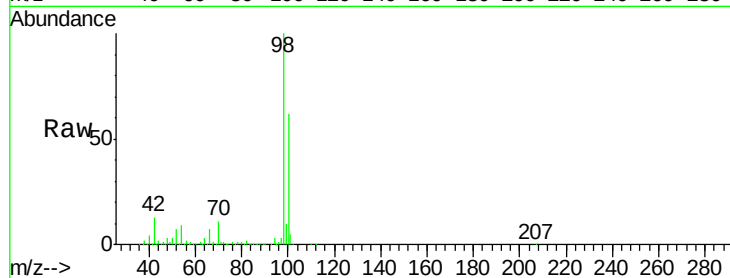
Acq: 25 May 2018 18:16

Tgt Ion: 98 Resp: 273162

Ion Ratio Lower Upper

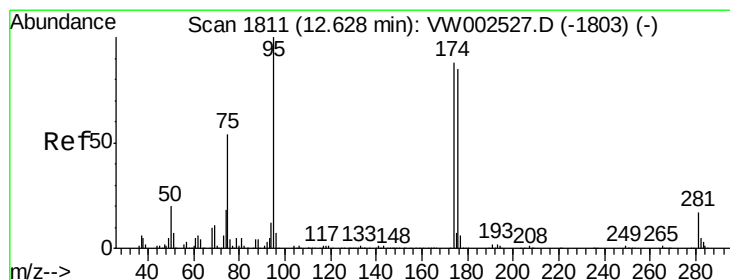
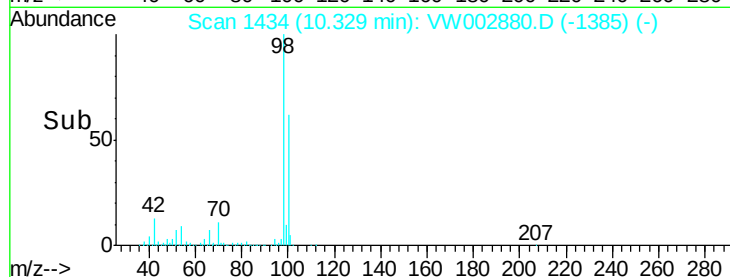
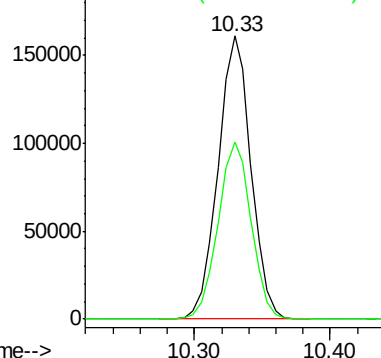
98 100

100 62.8 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 39.29 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW002880.D

Acq: 25 May 2018 18:16

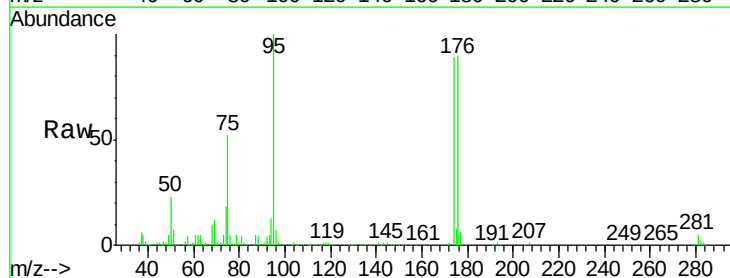
Tgt Ion: 95 Resp: 74154

Ion Ratio Lower Upper

95 100

174 90.6 0.0 176.6

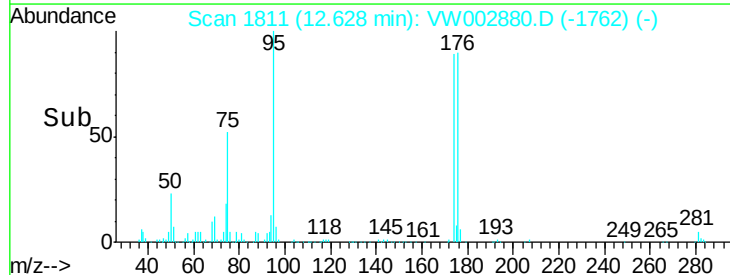
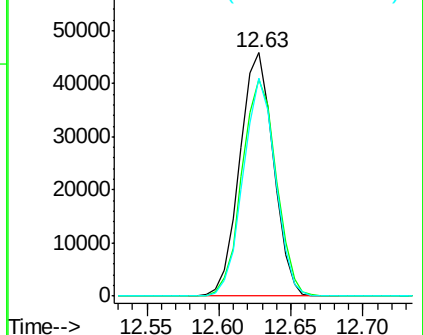
176 85.7 0.0 172.2



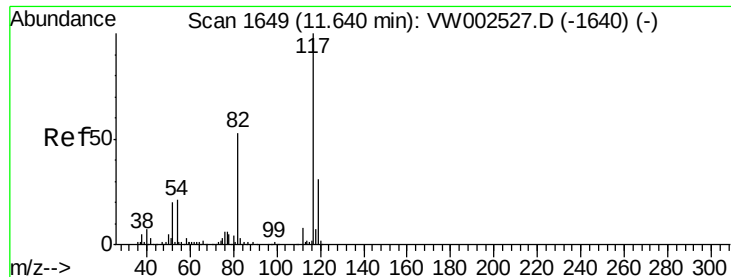
Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

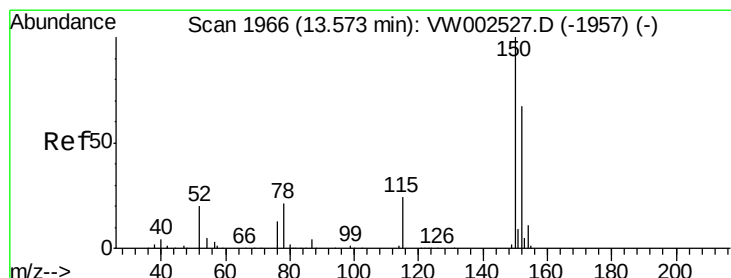
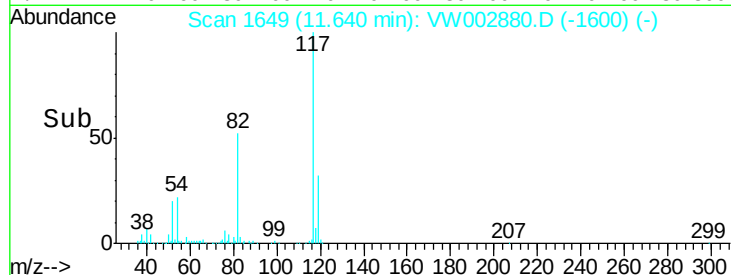
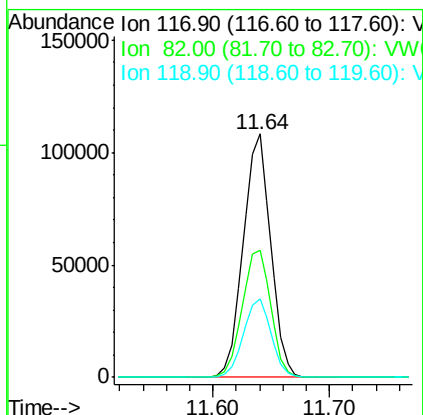
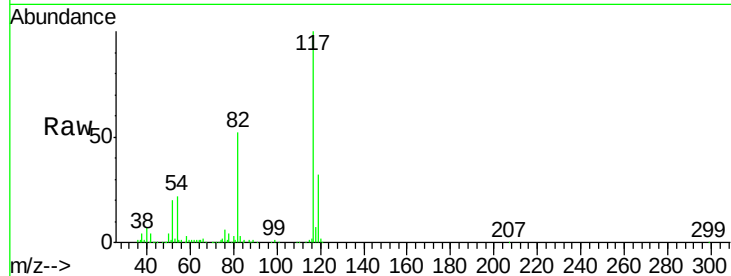






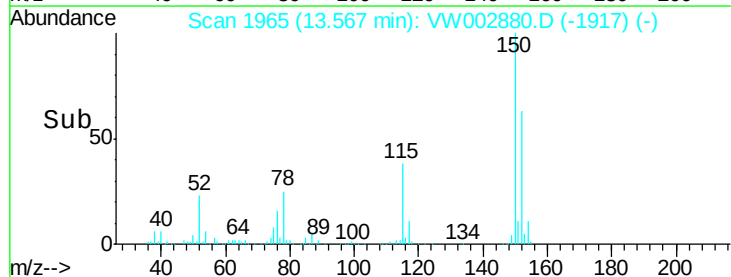
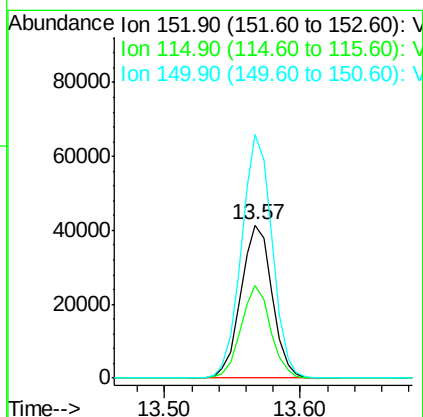
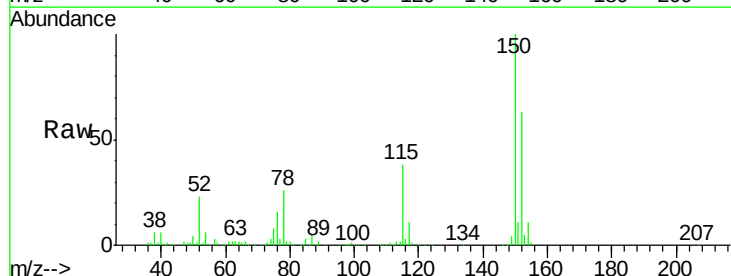
#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 11.64 min Scan# 1649  
 Delta R.T. -0.00 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

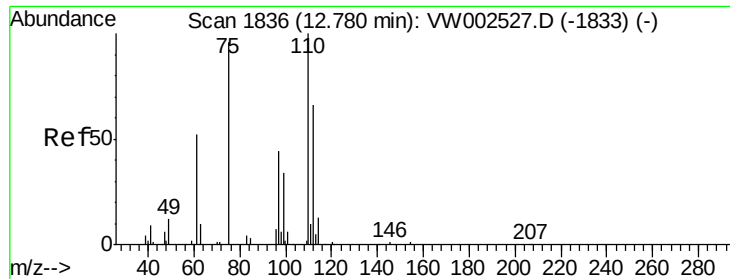
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 178297 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 52.4  | 42.6  | 64.0   |
| 119      | 32.3  | 25.0  | 37.6   |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 13.57 min Scan# 1965  
 Delta R.T. -0.01 min  
 Lab File: VW002880.D  
 Acq: 25 May 2018 18:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 66136 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 57.5  | 28.0  | 84.0  |
| 150      | 156.5 | 0.0   | 345.4 |





#76

1,2,3-Trichloropropane

Concen: 61.60 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002880.D

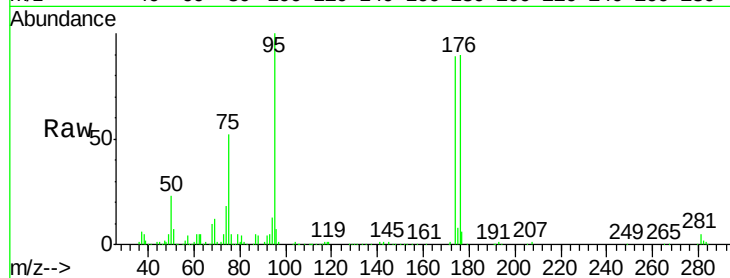
Acq: 25 May 2018 18:16

Tgt Ion: 75 Resp: 38512

Ion Ratio Lower Upper

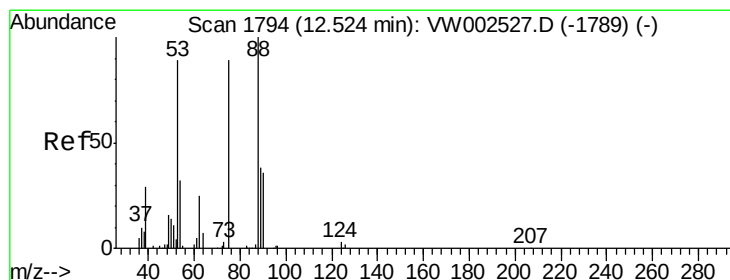
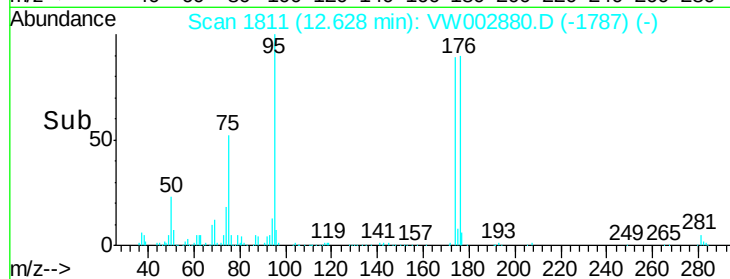
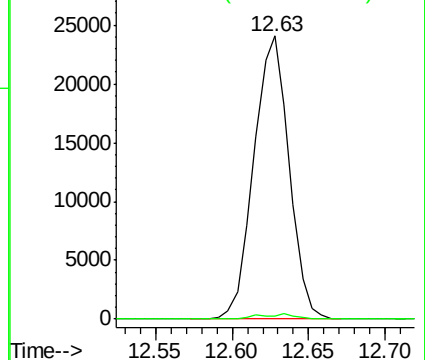
75 100

77 1.7 0.0 0.0#



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: 167.96 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002880.D

Acq: 25 May 2018 18:16

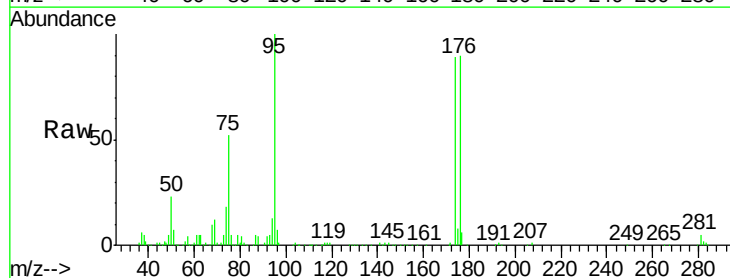
Tgt Ion: 75 Resp: 38512

Ion Ratio Lower Upper

75 100

53 0.1 82.6 124.0#

89 0.2 39.2 58.8#



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

