

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW110218\  
 Data File : VW006563.D  
 Acq On : 01 Nov 2018 16:58  
 Operator : SY/AP  
 Sample : J5665-05  
 Misc : 4.33G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DL-08A

Quant Time: Nov 01 18:26:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 01 03:48:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 140141   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 298153   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 321586   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 174505   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 99052    | 82.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 164.46% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 89538    | 47.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.70%  |      |
| 50) Toluene-d8              | 10.33  | 98  | 282664   | 39.68 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.36%  |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 117201   | 45.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.76%  |      |

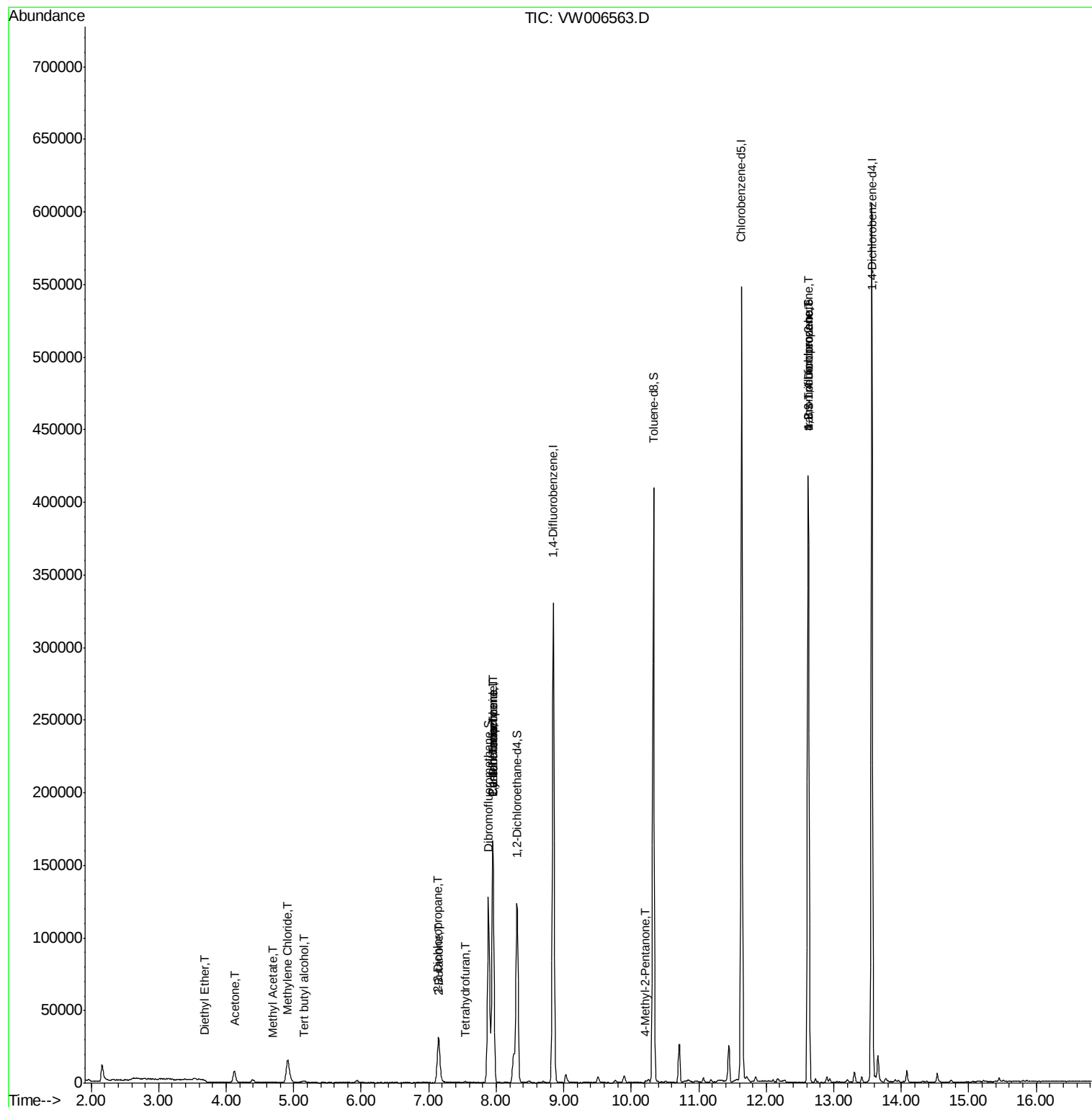
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 695      | 1.15   | ug/l   | 73     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 2145     | 33.05  | ug/l   | 98     |
| 16) Acetone                    | 4.12  | 43   | 14143    | 72.72  | ug/l   | 99     |
| 18) Methyl Acetate             | 4.68  | 43   | 588      | 1.05   | ug/l # | 54     |
| 20) Methylene Chloride         | 4.91  | 84   | 14561    | 6.34   | ug/l   | 98     |
| 25) 2-Butanone                 | 7.16  | 43   | 2068     | 7.45   | ug/l # | 73     |
| 26) 2,2-Dichloropropane        | 7.14  | 77   | 2383     | 1.88   | ug/l # | 49     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 559      | 3.20   | ug/l # | 74     |
| 31) Cyclohexane                | 7.95  | 56   | 2405     | 1.25   | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 8744     | 3.33   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 12076    | 4.41   | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 994      | 1.07   | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 57209    | 42.02  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 57209    | 105.68 | ug/l # | 11     |

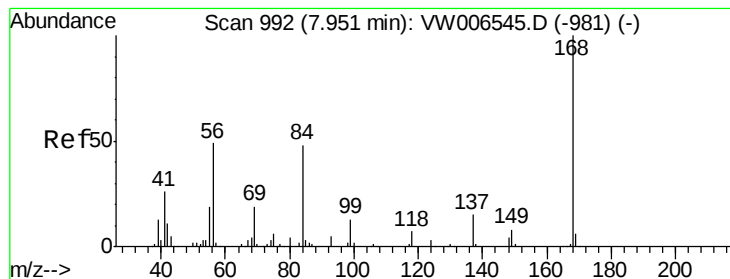
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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DL-08A

Quant Time: Nov 01 18:26:42 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W110218S.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 01 03:48:08 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006563.D

Acq: 01 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampled :

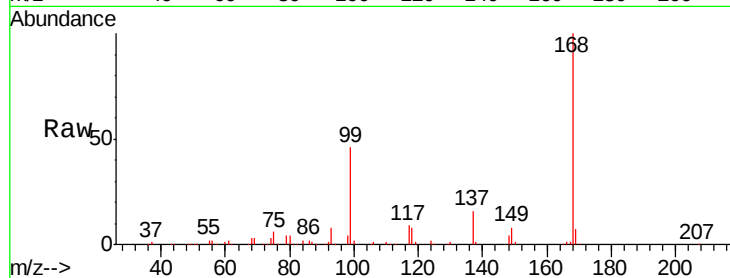
DL-08A

Tgt Ion: 168 Resp: 140141

Ion Ratio Lower Upper

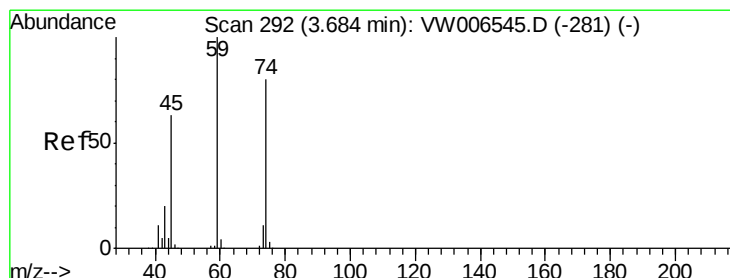
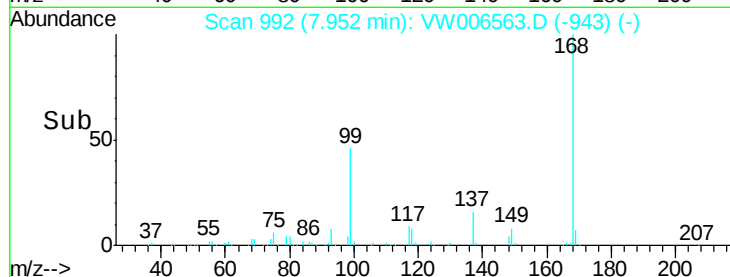
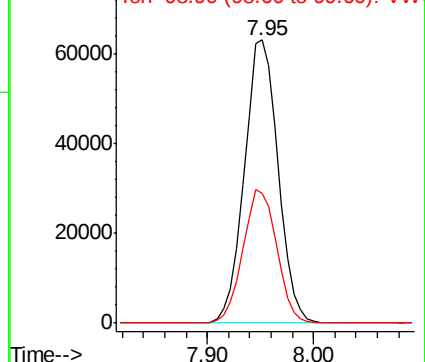
168 100

99 46.0 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.15 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW006563.D

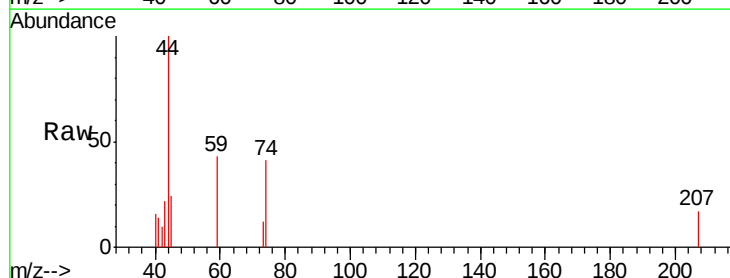
Acq: 01 Nov 2018 16:58

Tgt Ion: 74 Resp: 695

Ion Ratio Lower Upper

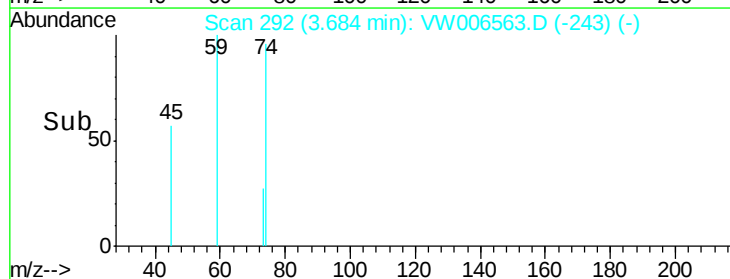
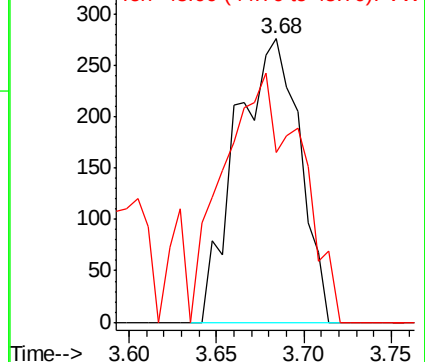
74 100

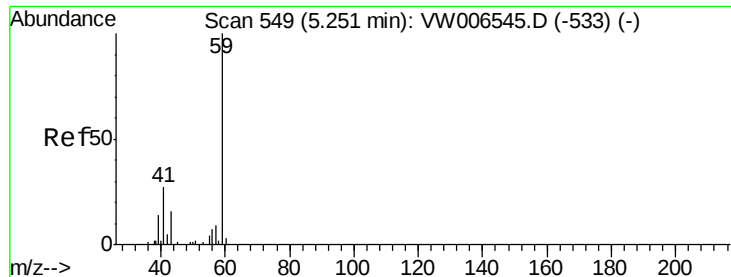
45 106.5 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

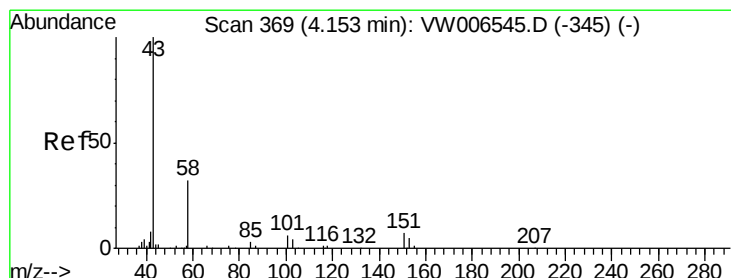
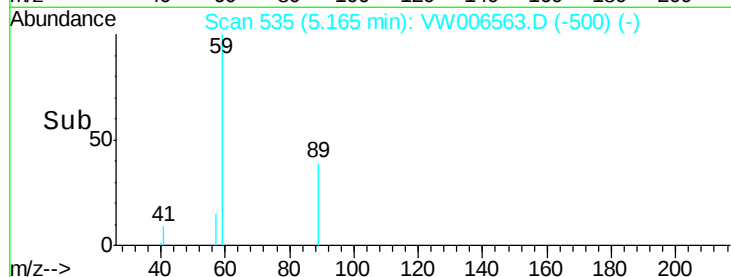
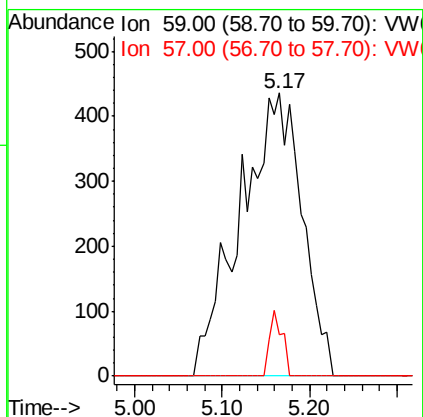
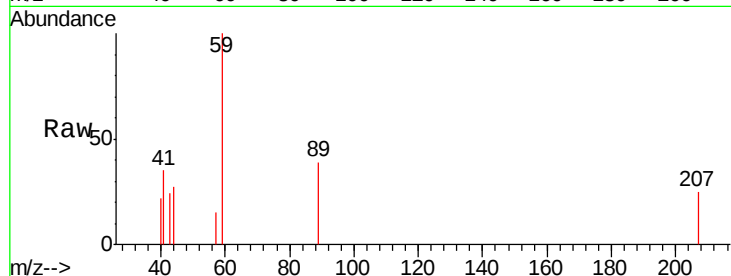




#11  
Tert butyl alcohol  
Concen: 33.05 ug/l  
RT: 5.17 min Scan# 535  
Delta R.T. -0.09 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

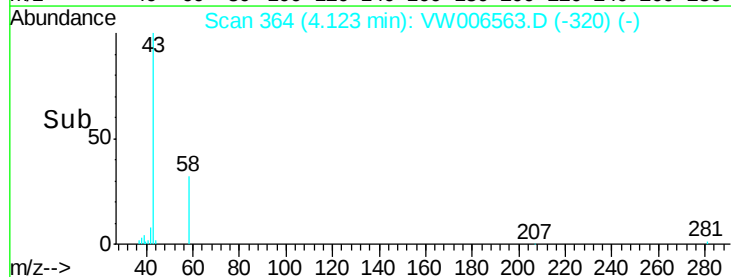
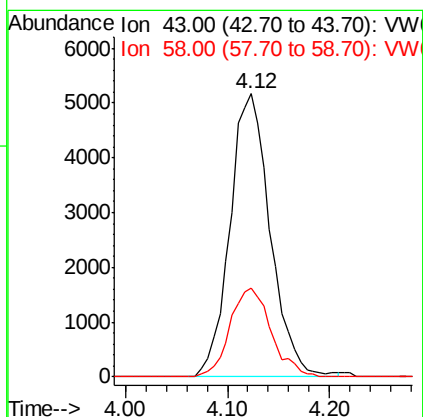
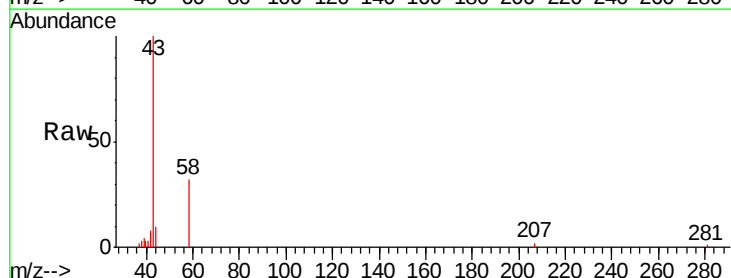
Instrument :  
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ClientSampleId :  
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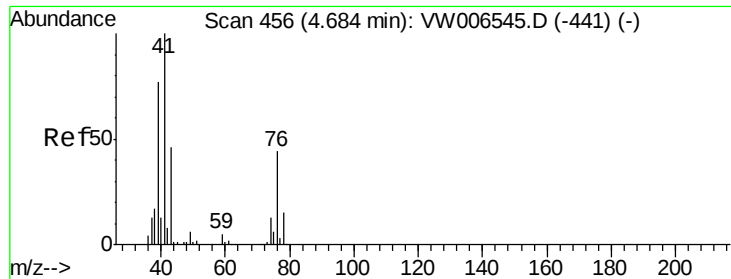
Tgt Ion: 59 Resp: 2145  
Ion Ratio Lower Upper  
59 100  
57 4.9 4.3 6.5



#16  
Acetone  
Concen: 72.72 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.03 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

Tgt Ion: 43 Resp: 14143  
Ion Ratio Lower Upper  
43 100  
58 31.6 25.8 38.8

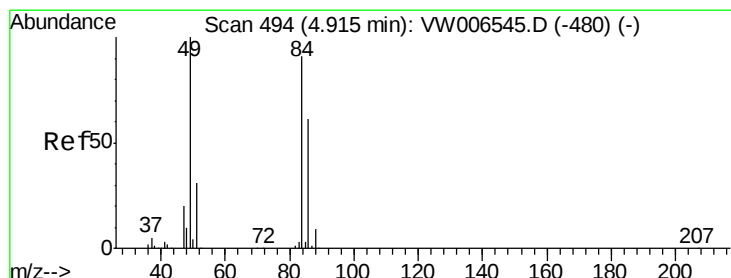
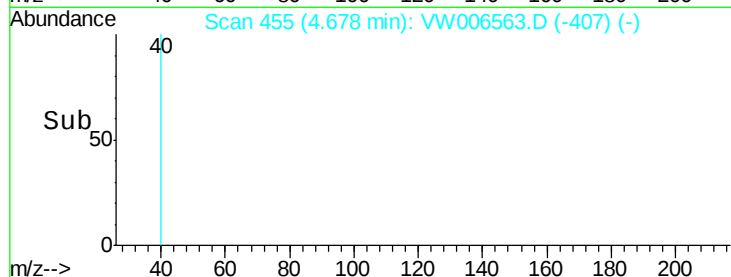
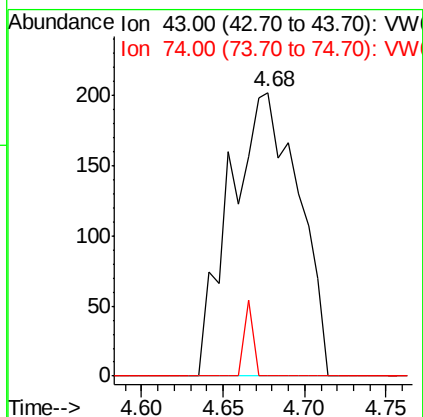
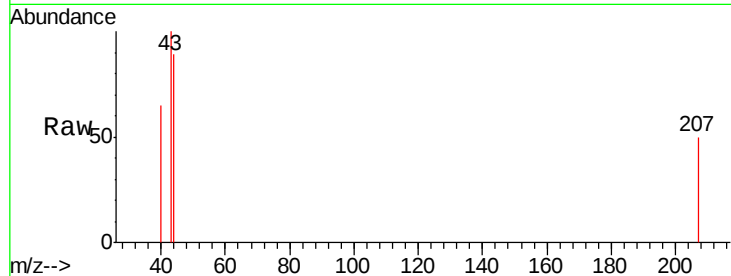




#18  
Methyl Acetate  
Concen: 1.05 ug/l  
RT: 4.68 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

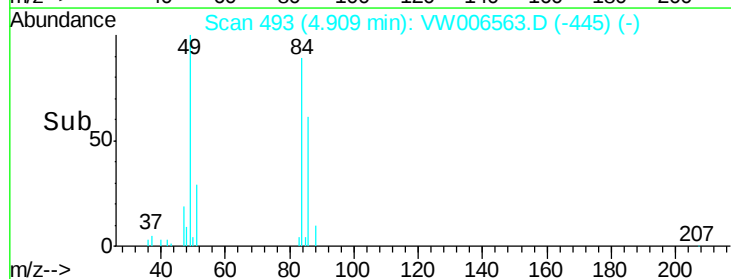
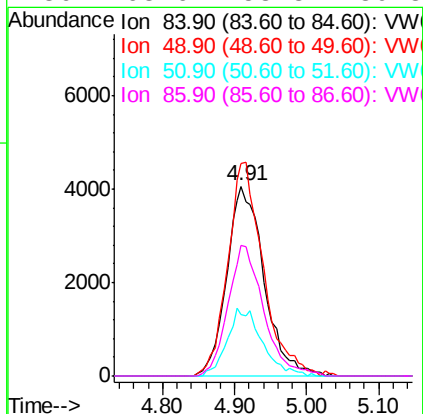
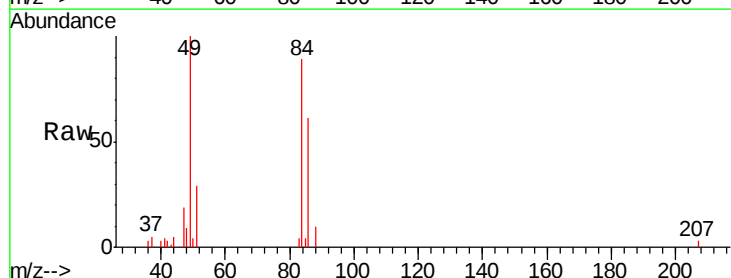
Instrument :  
MSVOA\_W  
ClientSampled :  
DL-08A

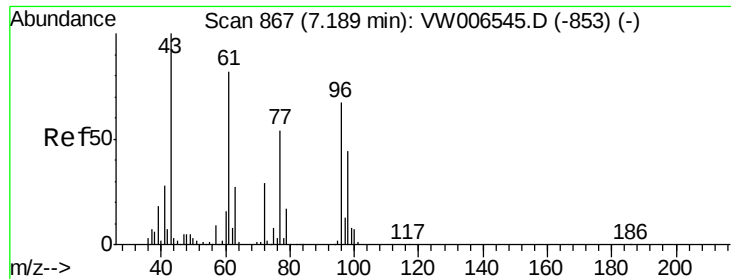
Tgt Ion: 43 Resp: 588  
Ion Ratio Lower Upper  
43 100  
74 3.4 21.9 32.9#



#20  
Methylene Chloride  
Concen: 6.34 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

Tgt Ion: 84 Resp: 14561  
Ion Ratio Lower Upper  
84 100  
49 111.9 88.2 132.4  
51 32.2 27.0 40.6  
86 68.6 53.8 80.8

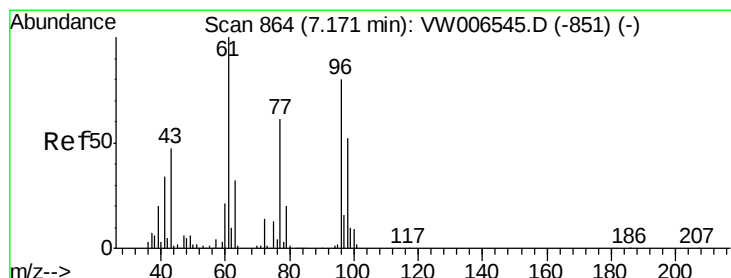
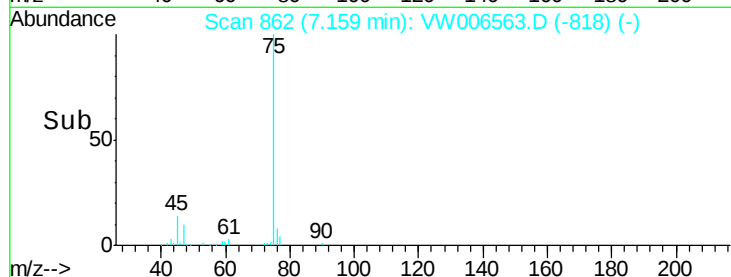
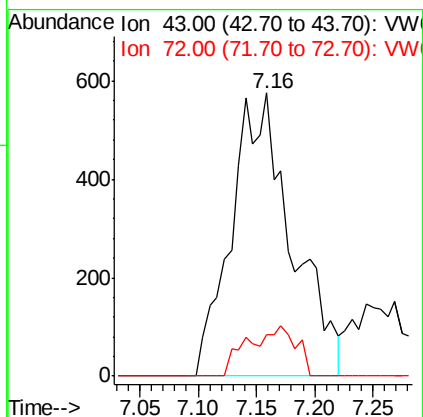
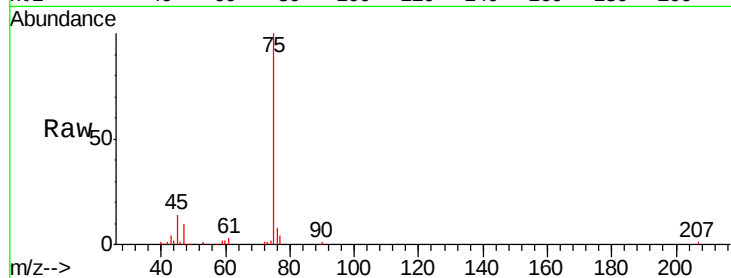




#25  
 2-Butanone  
 Concen: 7.45 ug/l  
 RT: 7.16 min Scan# 862  
 Delta R.T. -0.03 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

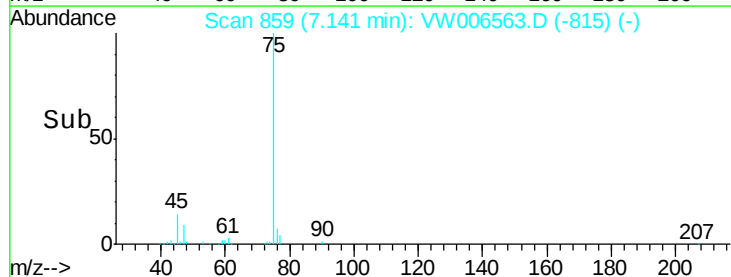
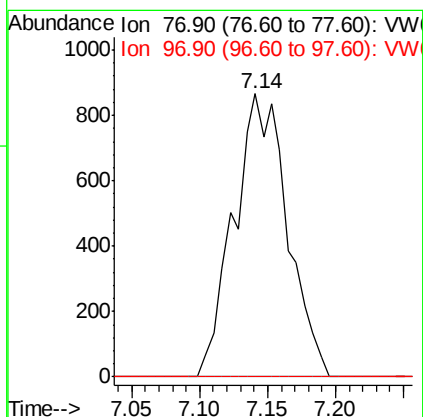
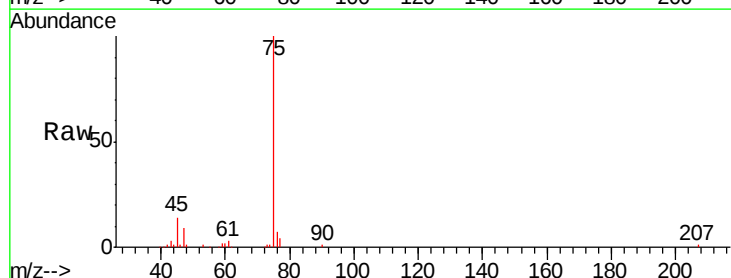
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 DL-08A

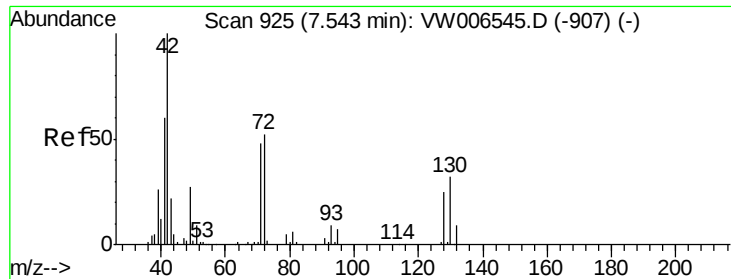
Tgt Ion: 43 Resp: 2068  
 Ion Ratio Lower Upper  
 43 100  
 72 14.6 23.2 34.8#



#26  
 2,2-Dichloropropane  
 Concen: 1.88 ug/l  
 RT: 7.14 min Scan# 859  
 Delta R.T. -0.03 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

Tgt Ion: 77 Resp: 2383  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 12.8 38.4#

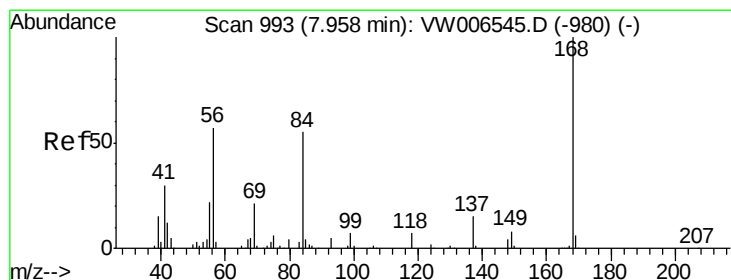
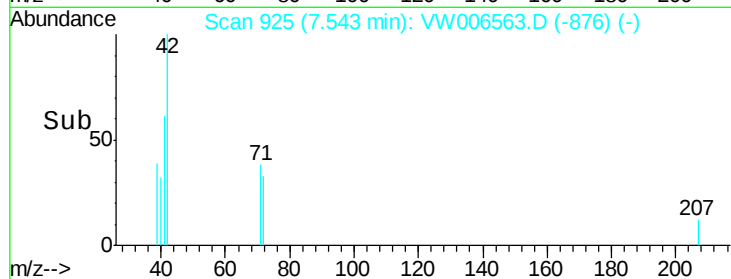
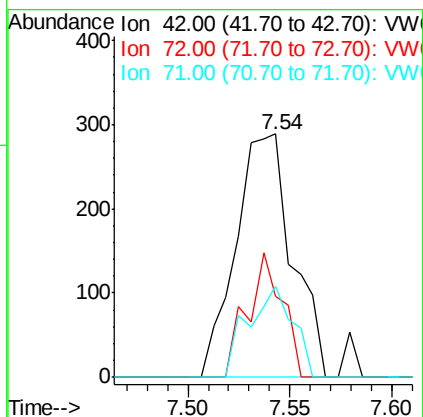
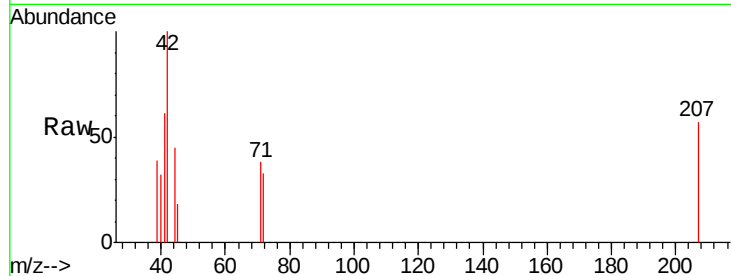




#29  
Tetrahydrofuran  
Concen: 3.20 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.00 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

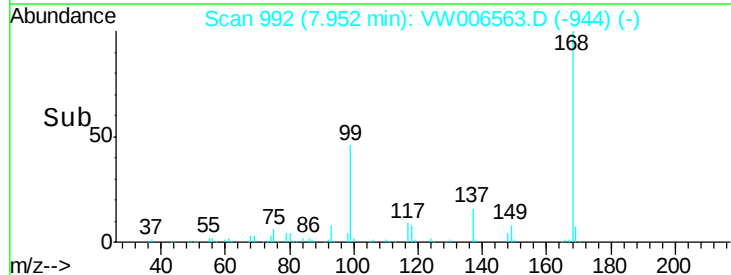
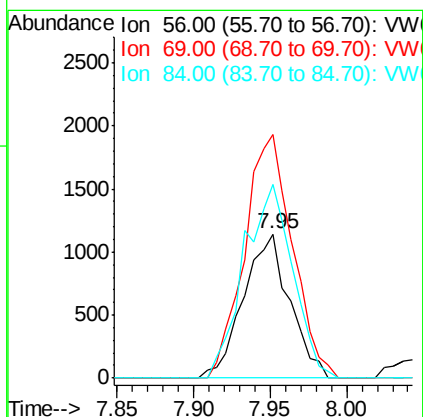
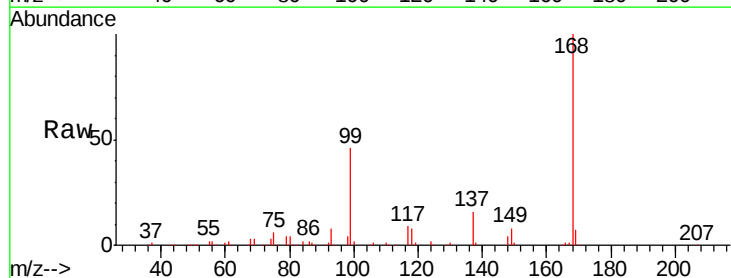
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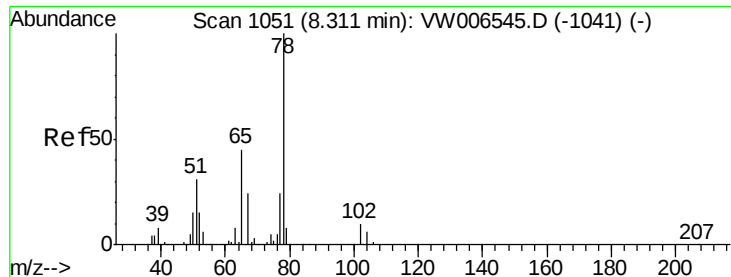
Tgt Ion: 42 Resp: 559  
Ion Ratio Lower Upper  
42 100  
72 31.5 39.2 58.8#  
71 29.5 37.6 56.4#



#31  
Cyclohexane  
Concen: 1.25 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

Tgt Ion: 56 Resp: 2405  
Ion Ratio Lower Upper  
56 100  
69 168.8 29.0 43.4#  
84 134.0 77.8 116.6#

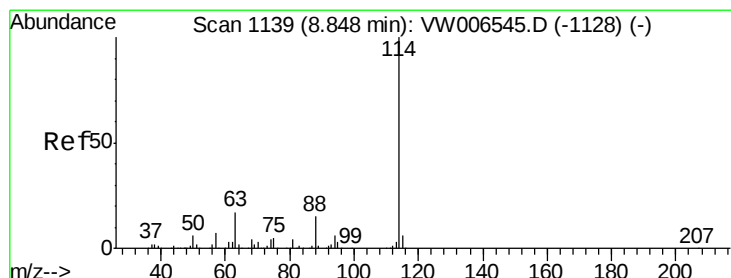
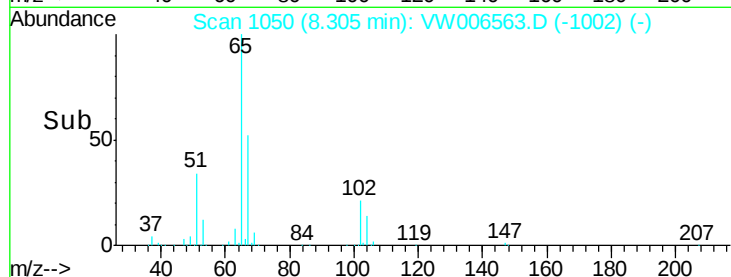
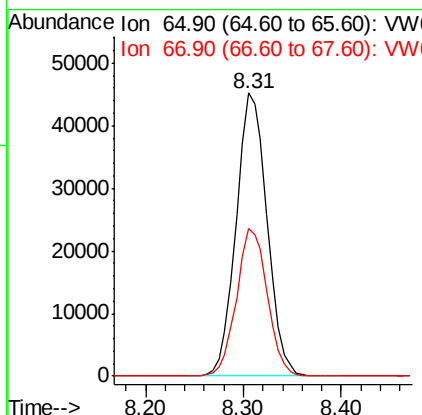
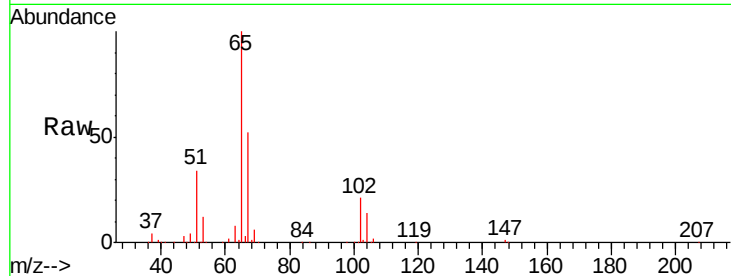




#33  
 1,2-Dichloroethane-d4  
 Concen: 82.23 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.01 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

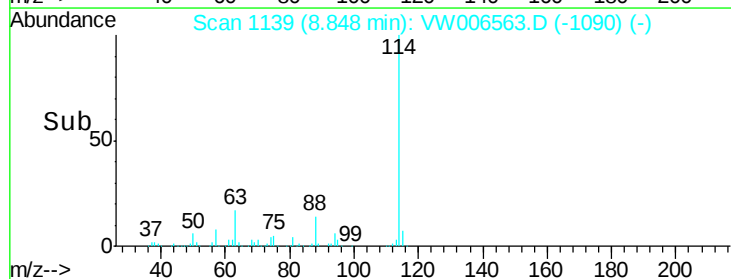
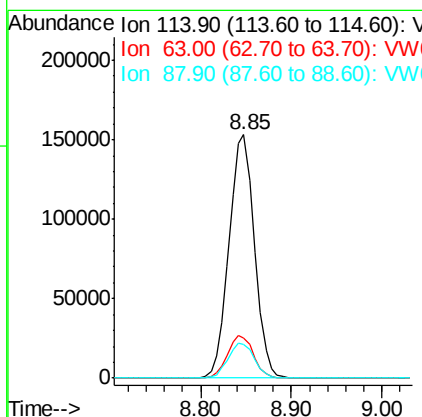
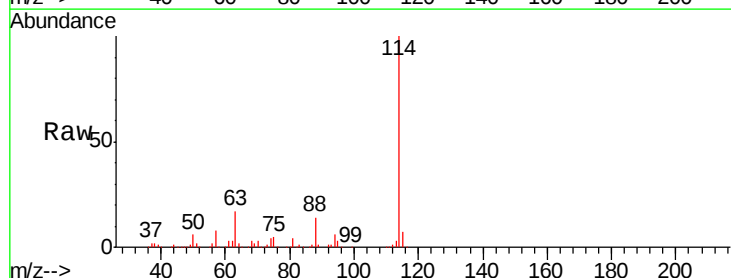
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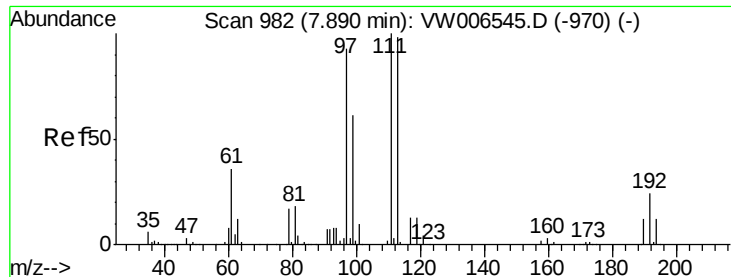
Tgt Ion: 65 Resp: 99052  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

Tgt Ion: 114 Resp: 298153  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 34.4  
 88 14.1 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.85 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW006563.D

Acq: 01 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampled :

DL-08A

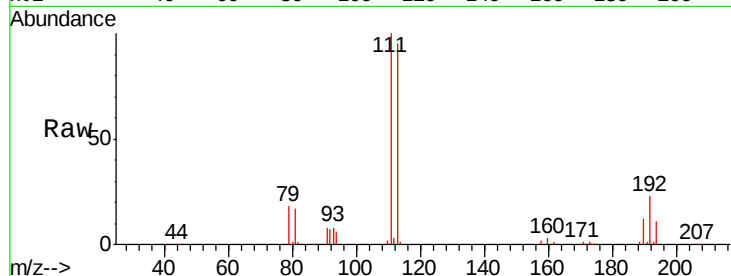
Tgt Ion:113 Resp: 89538

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

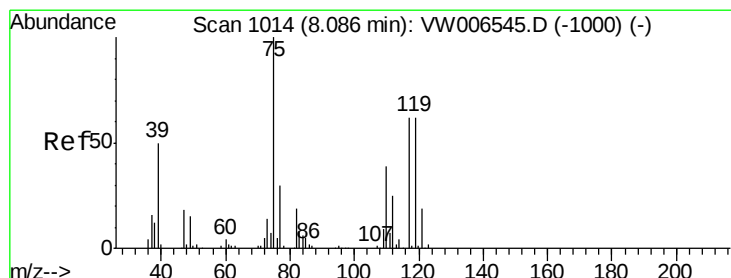
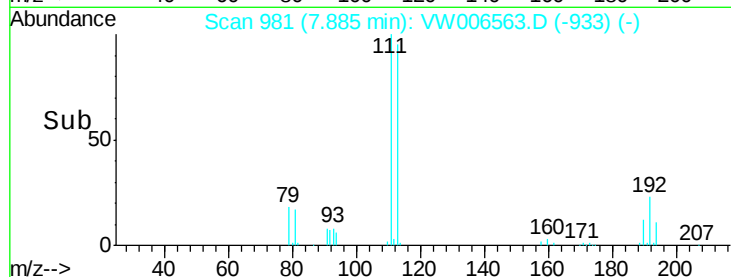
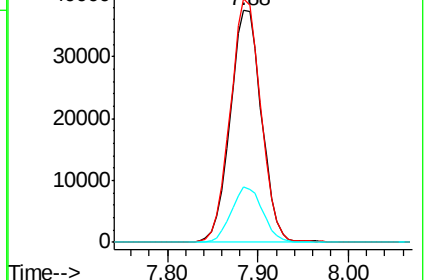
192 23.9 19.0 28.6



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: 3.33 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW006563.D

Acq: 01 Nov 2018 16:58

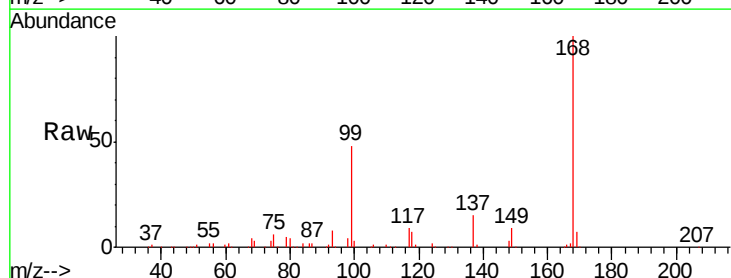
Tgt Ion: 75 Resp: 8744

Ion Ratio Lower Upper

75 100

110 10.4 19.5 58.5#

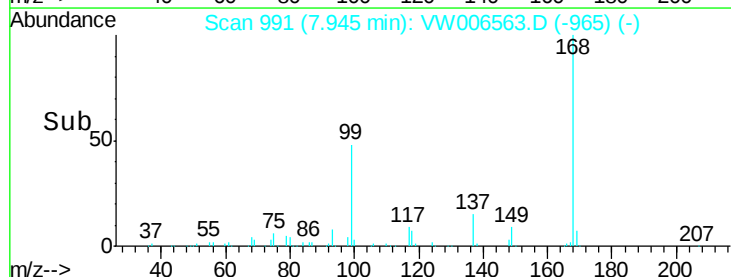
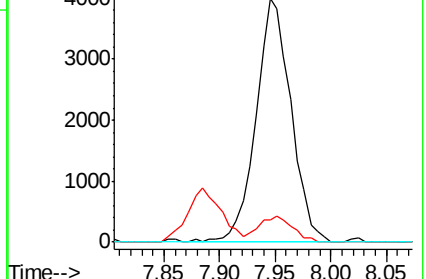
77 0.0 24.6 37.0#

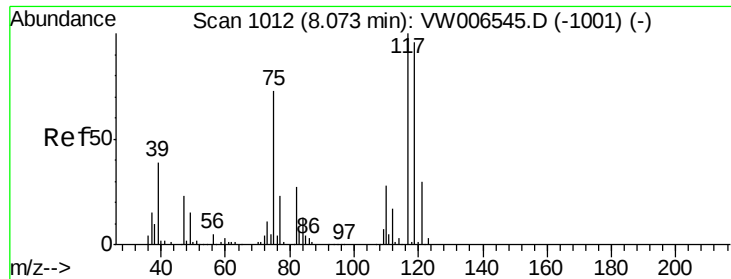


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

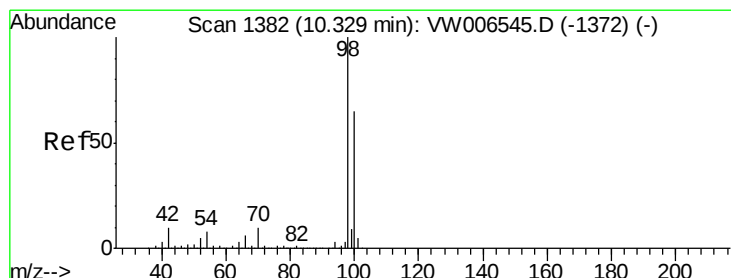
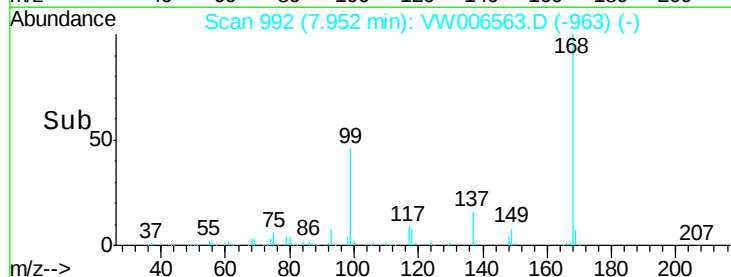
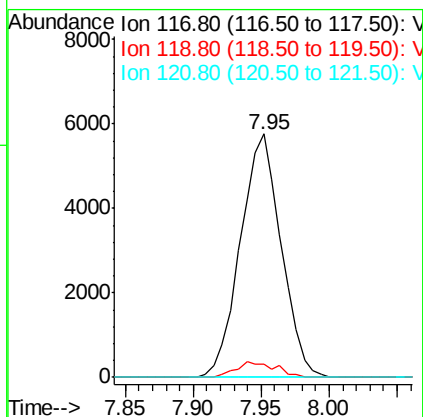
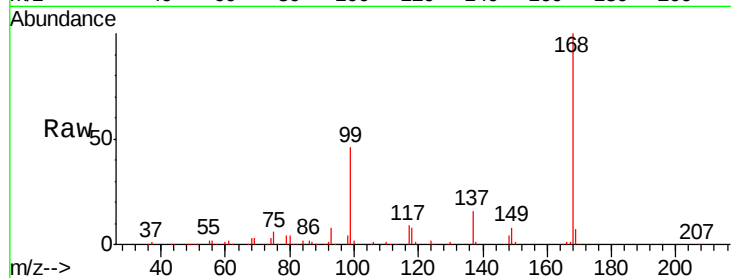




#38  
Carbon Tetrachloride  
Concen: 4.41 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

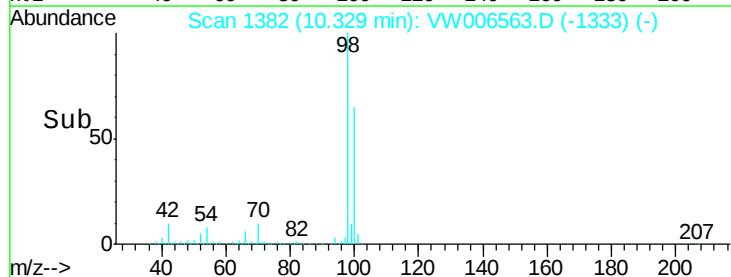
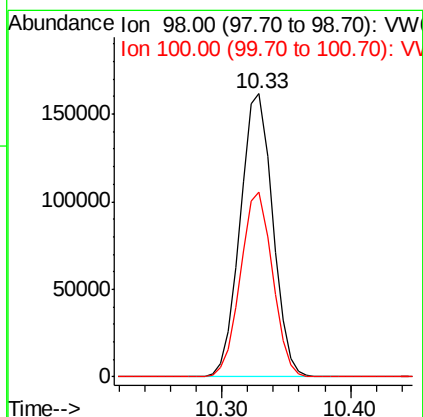
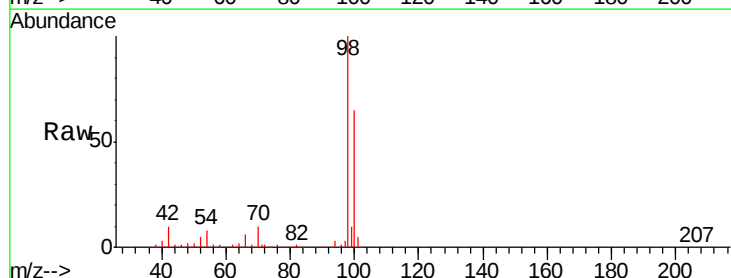
Instrument :  
MSVOA\_W  
ClientSampleId :  
DL-08A

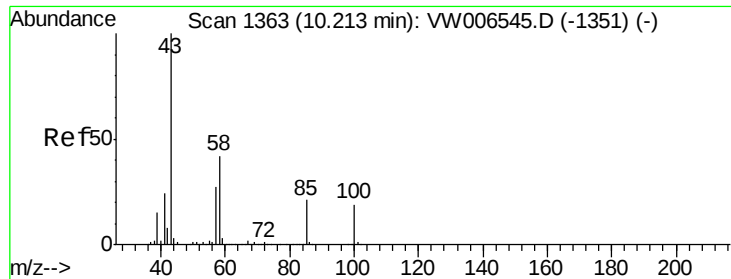
Tgt Ion:117 Resp: 12076  
Ion Ratio Lower Upper  
117 100  
119 5.6 76.3 114.5#  
121 0.0 24.1 36.1#



#50  
Toluene-d8  
Concen: 39.68 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

Tgt Ion: 98 Resp: 282664  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.6 77.4

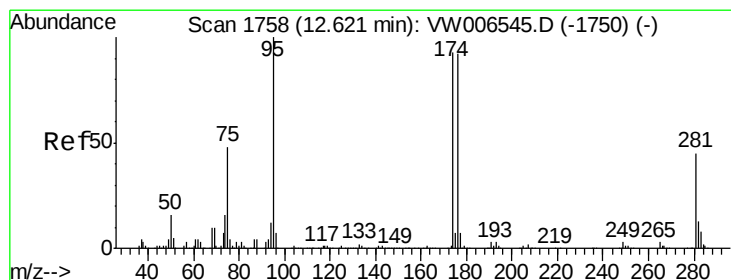
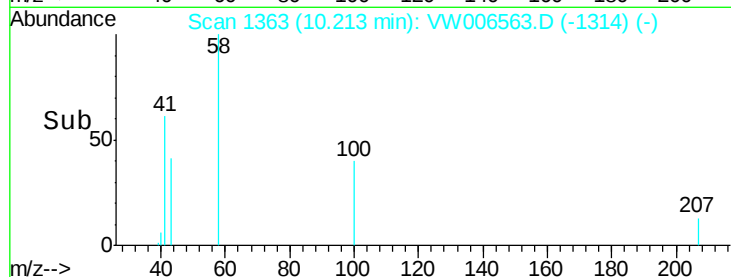
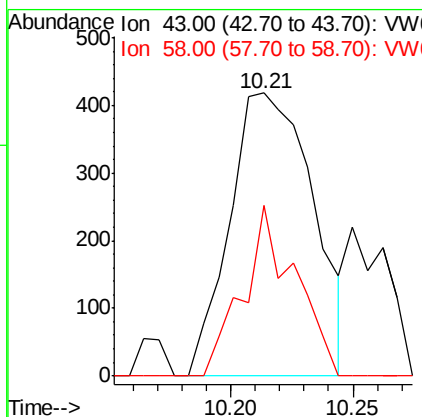
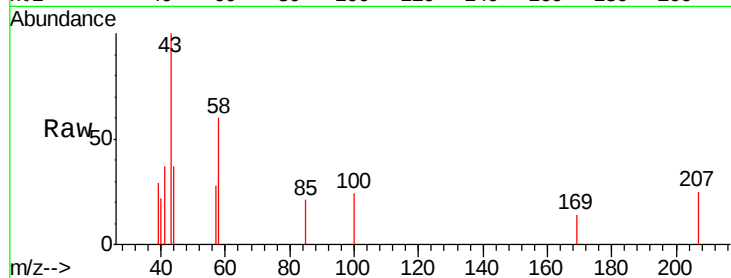




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.07 ug/l  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.00 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

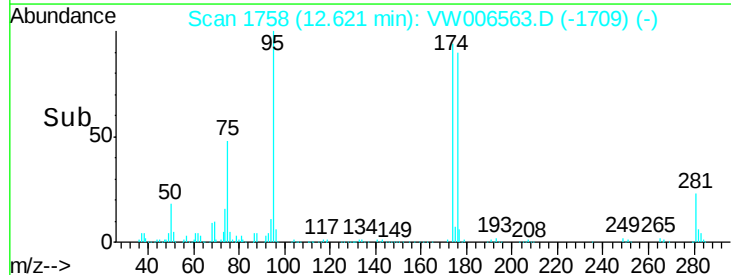
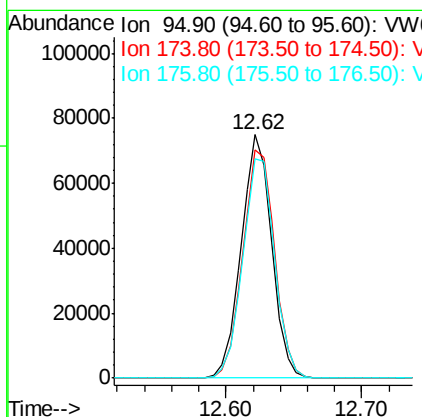
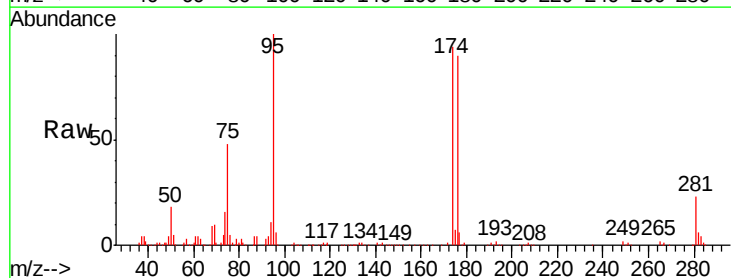
Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 DL-08A

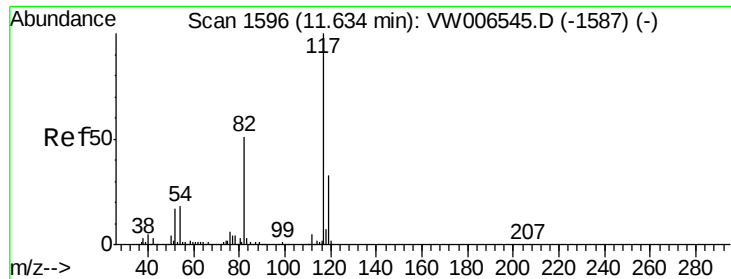
Tgt Ion: 43 Resp: 994  
 Ion Ratio Lower Upper  
 43 100  
 58 37.7 33.4 50.0



#62  
 4-Bromofluorobenzene  
 Concen: 45.38 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW006563.D  
 Acq: 01 Nov 2018 16:58

Tgt Ion: 95 Resp: 117201  
 Ion Ratio Lower Upper  
 95 100  
 174 98.0 0.0 192.4  
 176 94.7 0.0 187.4

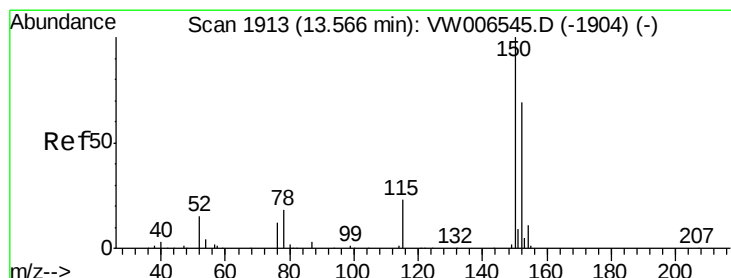
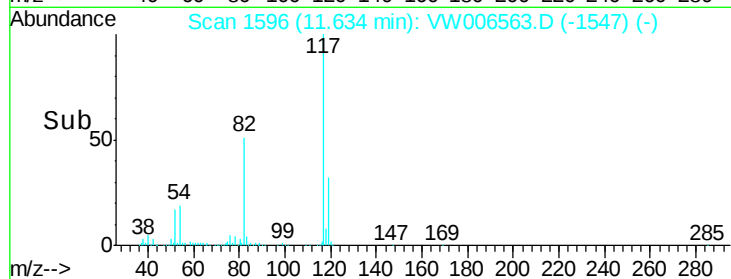
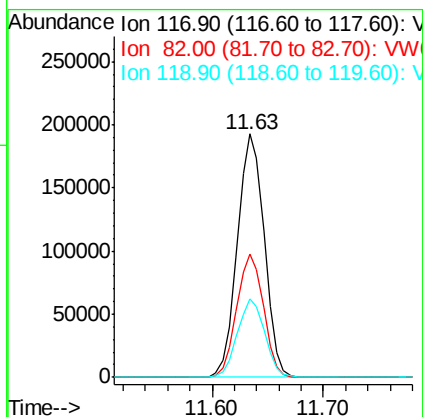
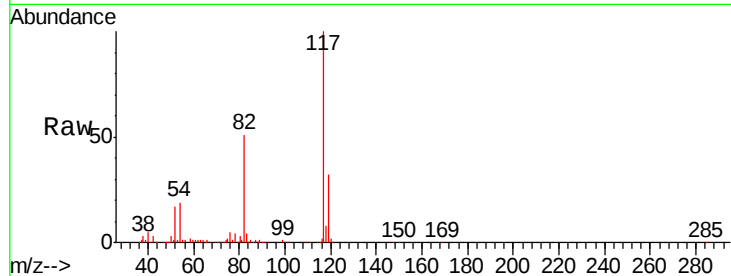




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

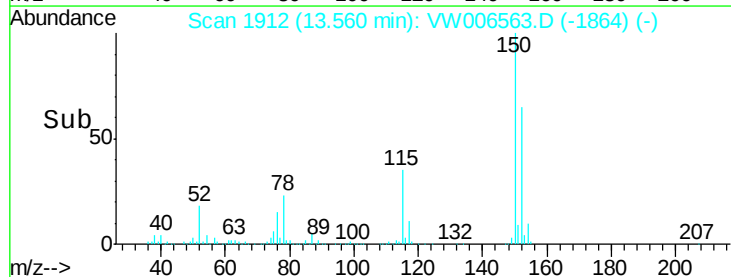
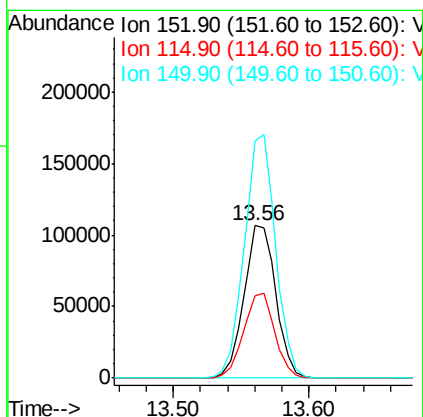
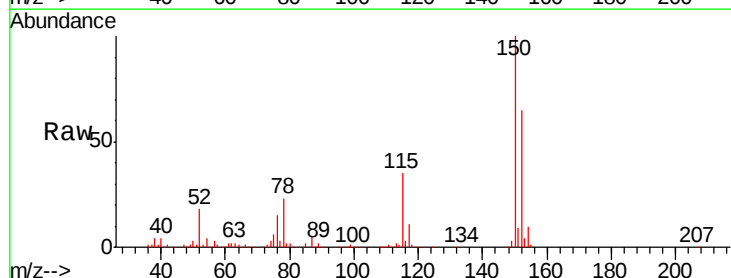
Instrument :  
MSVOA\_W  
ClientSampleId :  
DL-08A

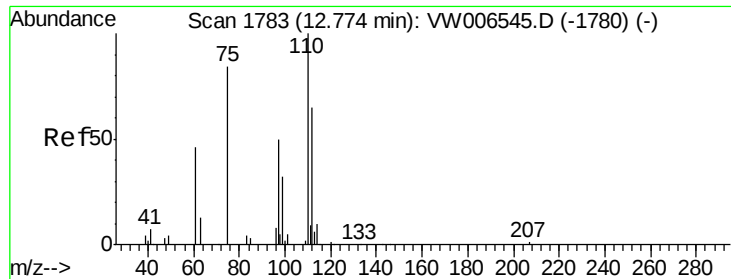
Tgt Ion:117 Resp: 321586  
Ion Ratio Lower Upper  
117 100  
82 50.7 40.8 61.2  
119 32.2 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.01 min  
Lab File: VW006563.D  
Acq: 01 Nov 2018 16:58

Tgt Ion:152 Resp: 174505  
Ion Ratio Lower Upper  
152 100  
115 54.4 26.6 79.8  
150 157.1 0.0 344.6





#76

1,2,3-Trichloropropane

Concen: 42.02 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006563.D

Acq: 01 Nov 2018 16:58

Instrument :

MSVOA\_W

ClientSampled :

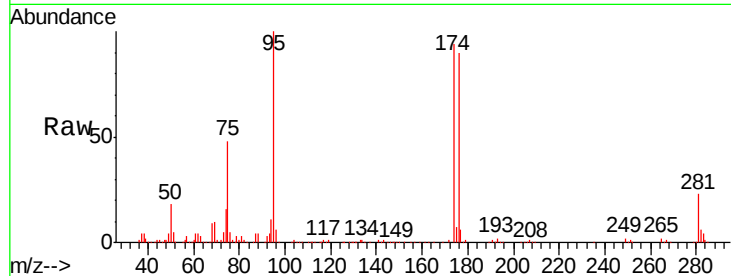
DL-08A

Tgt Ion: 75 Resp: 57209

Ion Ratio Lower Upper

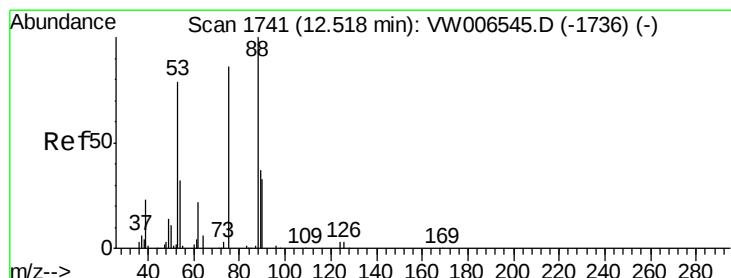
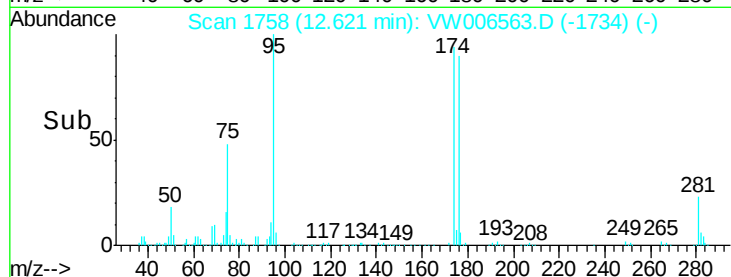
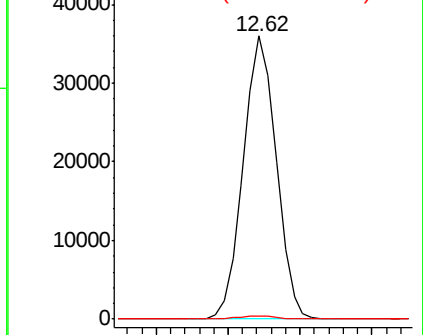
75 100

77 1.3 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: 105.68 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006563.D

Acq: 01 Nov 2018 16:58

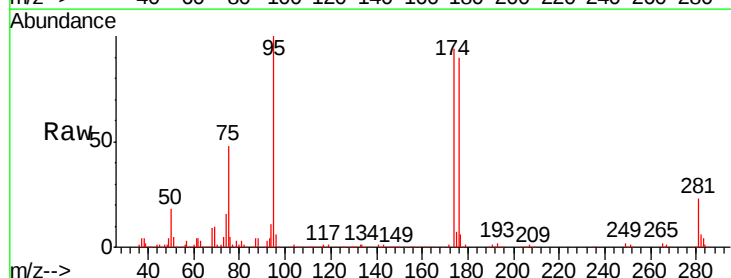
Tgt Ion: 75 Resp: 57209

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

89 0.0 38.6 58.0#



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

