

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112018\  
 Data File : VW006957.D  
 Acq On : 19 Nov 2018 21:50  
 Operator : SY/AP  
 Sample : J5981-04MSD  
 Misc : 3.95G/5ML/MSVOA W/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

Quant Time: Nov 20 04:36:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 17 04:45:18 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 103108   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 151349   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 117491   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 39125    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 43960    | 38.26 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 76.52% |      |
| 35) Dibromofluoromethane  | 7.89   | 113 | 41927    | 47.31 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.62% |      |
| 50) Toluene-d8            | 10.33  | 98  | 187007   | 49.10 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.20% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 54357    | 36.60 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 73.20% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 50599  | 51.257  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50  | 40674  | 45.770  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 33418  | 39.670  | ug/l   | 97     |
| 5) Bromomethane               | 2.78 | 94  | 20714  | 45.777  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64  | 20767  | 44.764  | ug/l   | 94     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 83129  | 50.702  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.69 | 74  | 27783  | 46.827  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 50143  | 47.358  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.28 | 142 | 49098  | 38.339  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 17829  | 203.950 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 36673  | 38.605  | ug/l   | 95     |
| 13) Acrolein                  | 3.90 | 56  | 15276  | 192.716 | ug/l   | 96     |
| 14) Allyl chloride            | 4.67 | 41  | 58452  | 34.977  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.38 | 53  | 52008  | 225.224 | ug/l   | 97     |
| 16) Acetone                   | 4.14 | 43  | 45981  | 261.610 | ug/l   | 96     |
| 17) Carbon Disulfide          | 4.38 | 76  | 55531  | 18.478  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.68 | 43  | 30334  | 47.161  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 142365 | 51.122  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.92 | 84  | 51402  | 41.919  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 27796  | 24.529  | ug/l   | 97     |
| 22) Diisopropyl ether         | 6.32 | 45  | 171009 | 50.134  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 385695 | 204.192 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 92935  | 47.316  | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43  | 72908  | 249.770 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 84199  | 49.130  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 41713  | 33.108  | ug/l   | 95     |
| 28) Bromochloromethane        | 7.51 | 49  | 24609  | 34.113  | ug/l # | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42  | 46141  | 243.064 | ug/l   | 100    |
| 30) Chloroform                | 7.68 | 83  | 94446  | 43.860  | ug/l   | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 79076  | 40.186  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 93067  | 50.203  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 56382  | 39.104  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 30187  | 49.241  | ug/l   | 97     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 77259  | 54.523  | ug/l   | 100    |

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 Quant Title : SW846 8260  
 QLast Update : Sat Nov 17 04:45:18 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 62172    | 34.745   | ug/l   | 99       |
| 40) Benzene                    | 8.32  | 78   | 221134   | 54.266   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 18806    | 50.084   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 55921    | 45.841   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 62970    | 53.532   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 41731    | 38.087   | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 56421    | 54.813   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 19996    | 38.359   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.65  | 83   | 67980    | 49.525   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 30914    | 54.462   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 9235     | 1169.099 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 165458   | 285.396  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 141497   | 51.903   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 41328    | 30.809   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 61271    | 38.168   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 40410    | 52.575   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 51044    | 53.415   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 63005    | 48.180   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 106266   | 226.196  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 113112   | 291.520  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 43564    | 49.703   | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 29487    | 41.278   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 38686    | 51.150   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 129488   | 52.195   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 50283    | 63.602   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 255507   | 57.125   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 200292   | 114.994  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 104881   | 63.445   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 138667   | 52.161   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 22328    | 60.580   | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 241730   | 78.015   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 53009    | 85.482   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 42439    | 93.114   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 49353    | 156.967  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 46106    | 70.208   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 234298   | 62.929   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 157570   | 72.215   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 197215   | 73.918   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 9561     | 69.221   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 135468   | 58.886   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 158334   | 69.882   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 199256   | 74.340   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 174930   | 54.110   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 159939   | 56.606   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 71539    | 53.273   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 66689    | 49.830   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 101880   | 38.092   | ug/l   | 98       |
| 90) Hexachloroethane           | 14.10 | 117  | 23398    | 50.796   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 77042    | 64.160   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7666     | 97.196   | ug/l   | 99       |

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Instrument :  
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Quant Title : SW846 8260  
QLast Update : Sat Nov 17 04:45:18 2018  
Response via : Initial Calibration

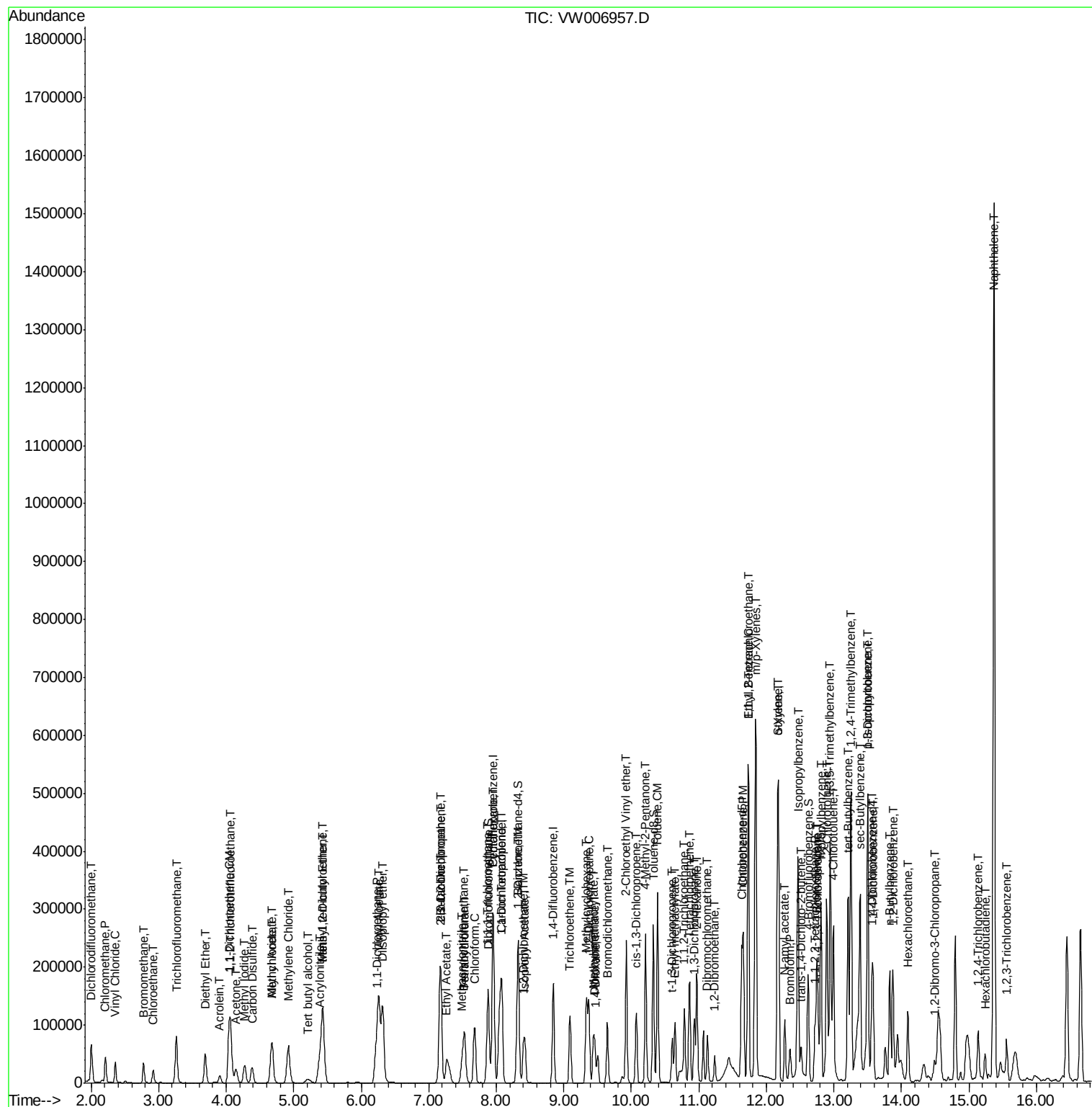
| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 23616    | 31.258  | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 8372     | 20.978  | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 1358812  | 933.443 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 23237    | 35.878  | ug/l  | 98       |

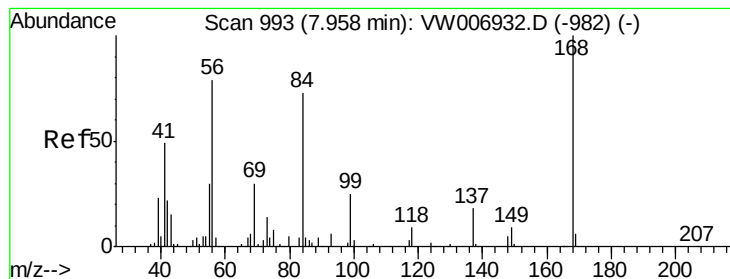
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

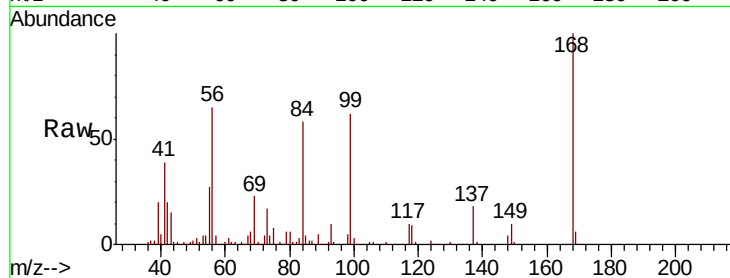
DTW-02(11-13)MSD

Tot Ion:168 Resp: 103108

Ion Ratio Lower Upper

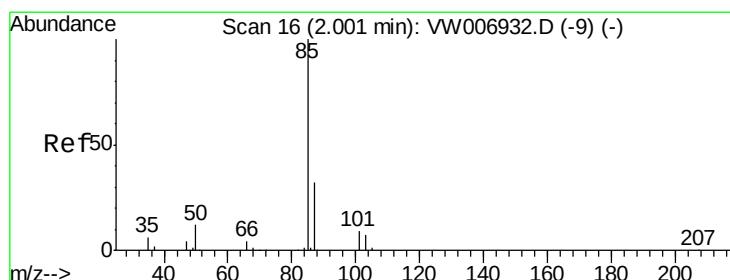
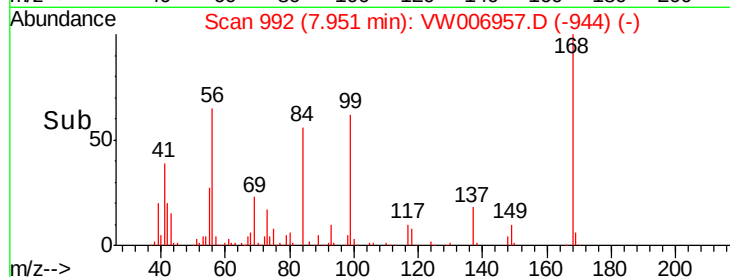
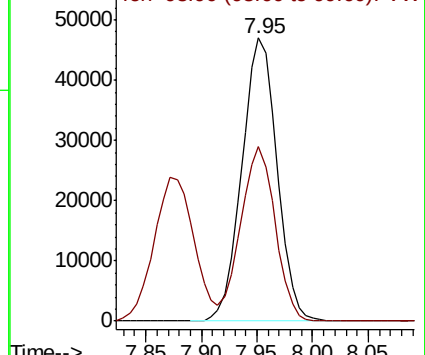
168 100

99 61.6 49.3 73.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 51.257 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.00 min

Lab File: VW006957.D

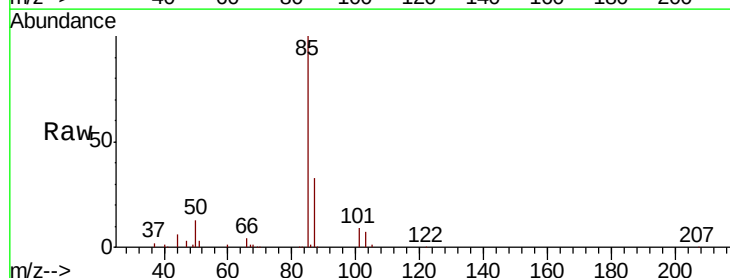
Acq: 19 Nov 2018 21:50

Tgt Ion: 85 Resp: 50599

Ion Ratio Lower Upper

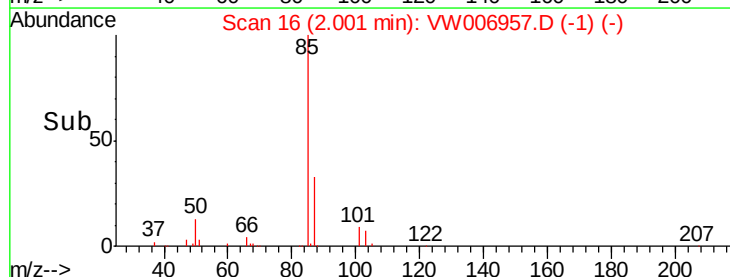
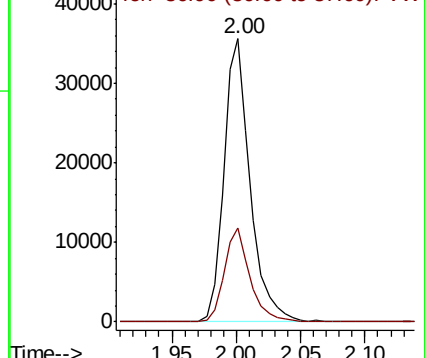
85 100

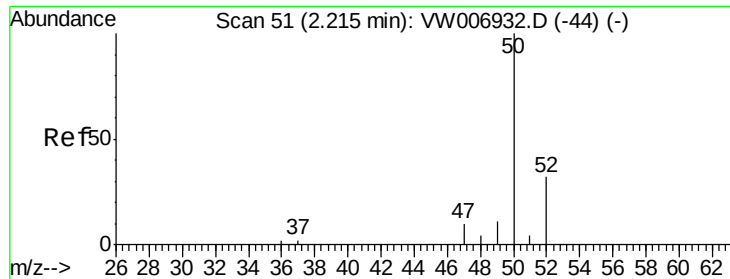
87 33.2 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 45.770 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

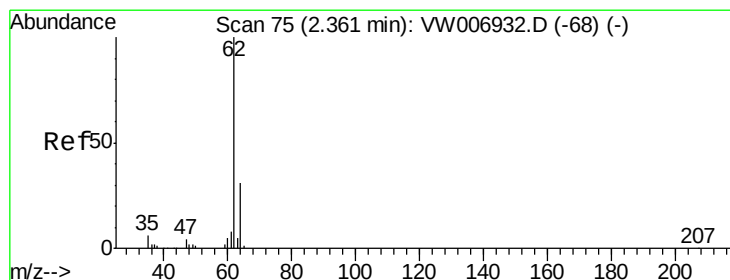
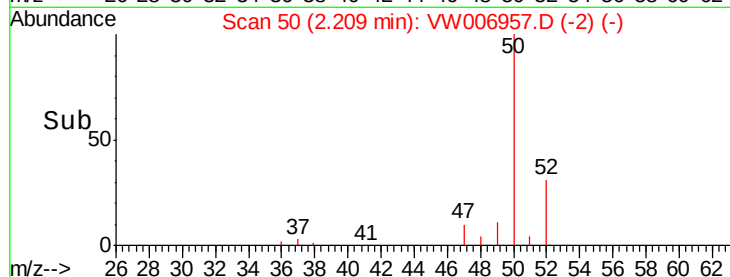
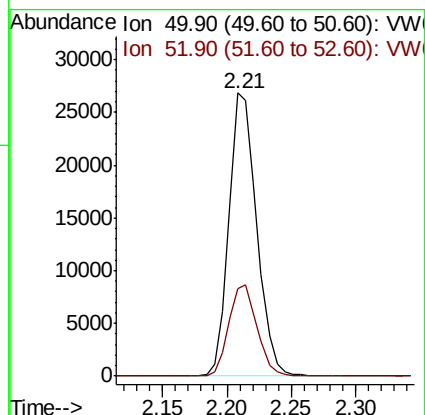
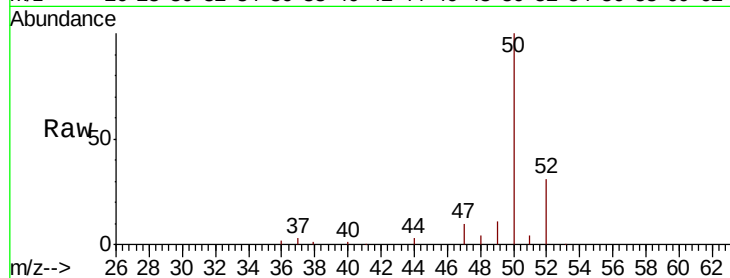
DTW-02(11-13)MSD

Tot Ion: 50 Resp: 40674

Ion Ratio Lower Upper

50 100

52 31.1 25.4 38.2



#4

Vinyl Chloride

Concen: 39.670 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW006957.D

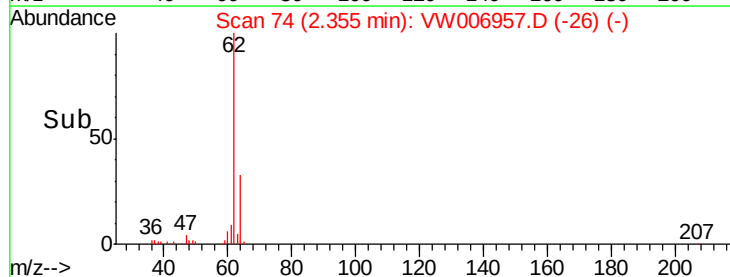
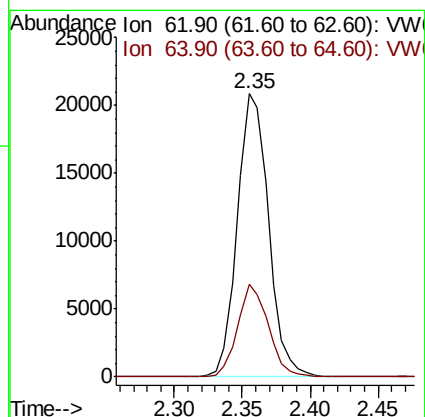
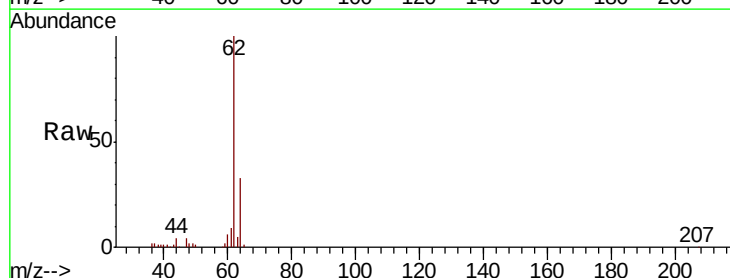
Acq: 19 Nov 2018 21:50

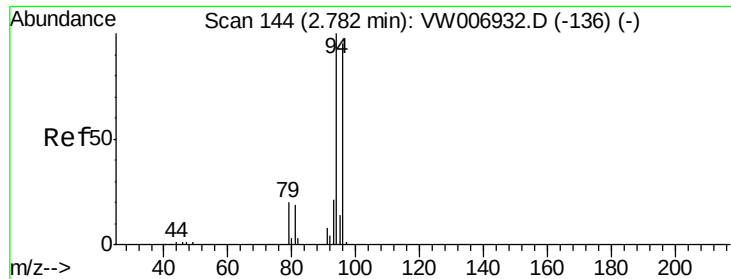
Tgt Ion: 62 Resp: 33418

Ion Ratio Lower Upper

62 100

64 32.7 24.6 37.0





#5

Bromomethane

Concen: 45.777 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

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Acq: 19 Nov 2018 21:50

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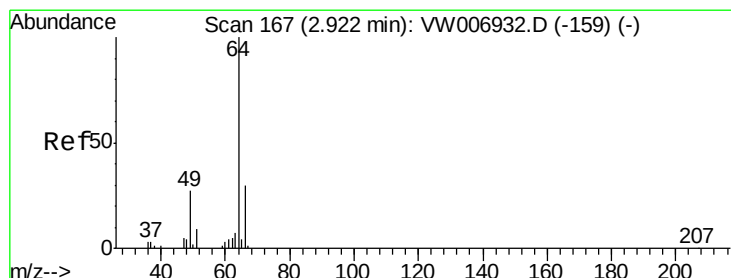
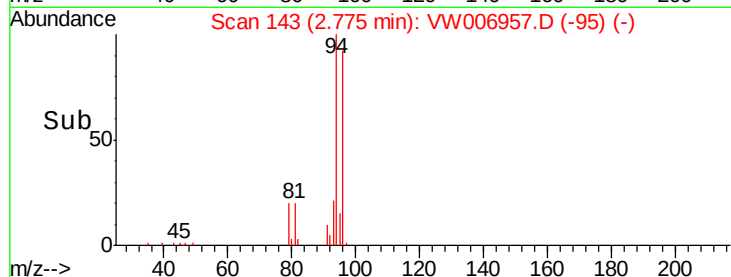
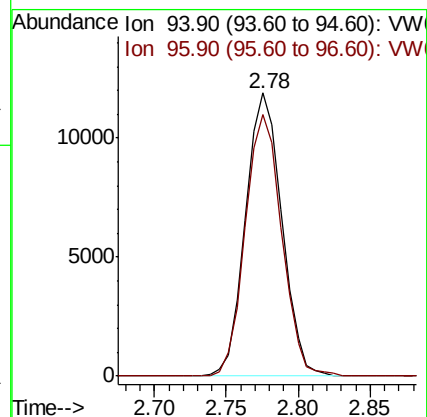
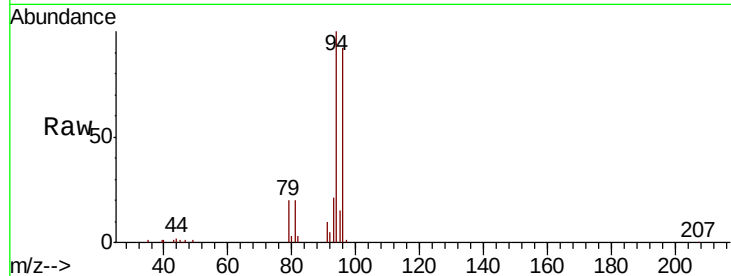
DTW-02(11-13)MSD

Tot Ion: 94 Resp: 20714

Ion Ratio Lower Upper

94 100

96 92.5 76.2 114.4



#6

Chloroethane

Concen: 44.764 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW006957.D

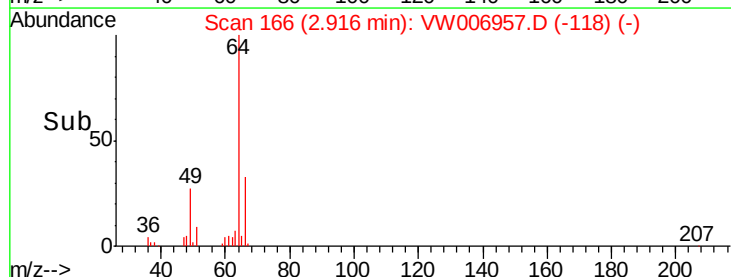
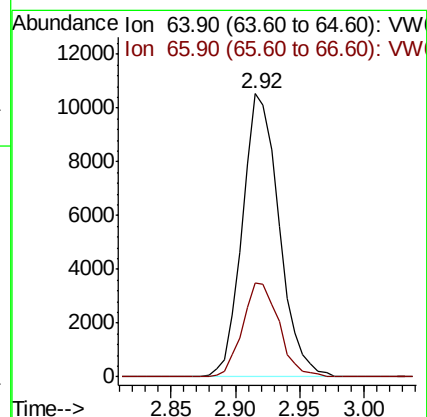
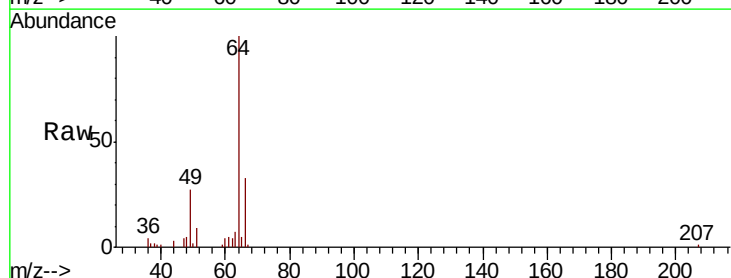
Acq: 19 Nov 2018 21:50

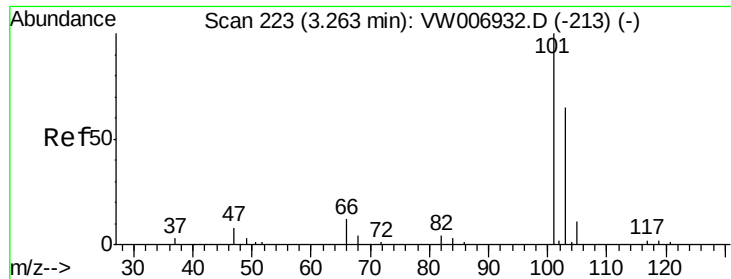
Tgt Ion: 64 Resp: 20767

Ion Ratio Lower Upper

64 100

66 33.1 24.0 36.0



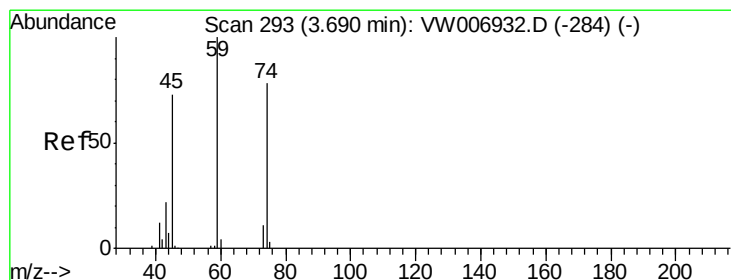
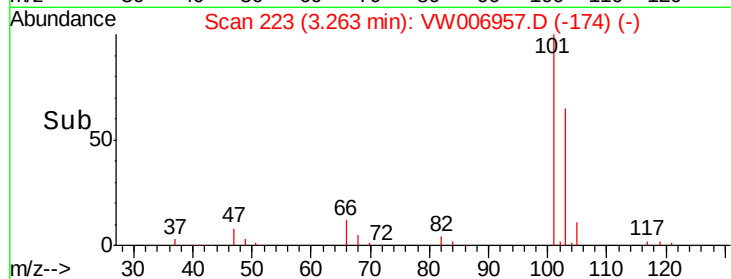
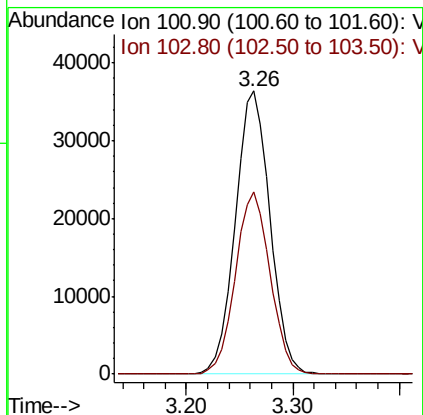
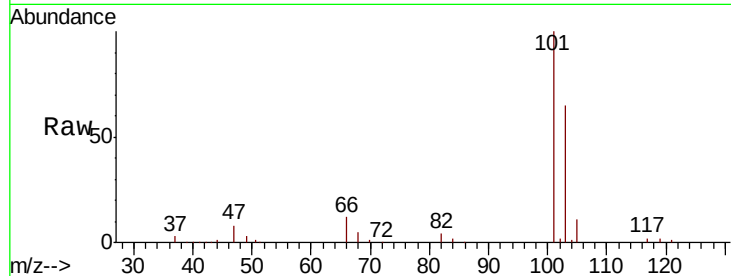


#7

Trichlorofluoromethane  
 Concen: 50.702 ug/l  
 RT: 3.26 min Scan# 223  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

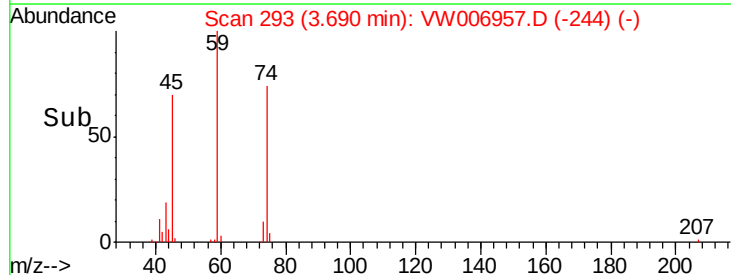
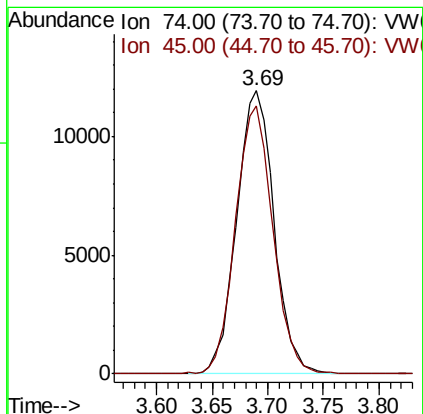
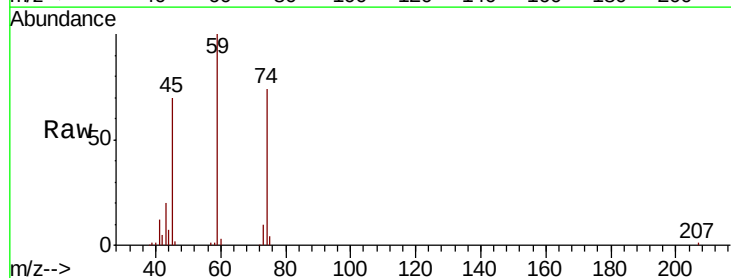
Tot Ion:101 Resp: 83129  
 Ion Ratio Lower Upper  
 101 100  
 103 64.5 52.2 78.2



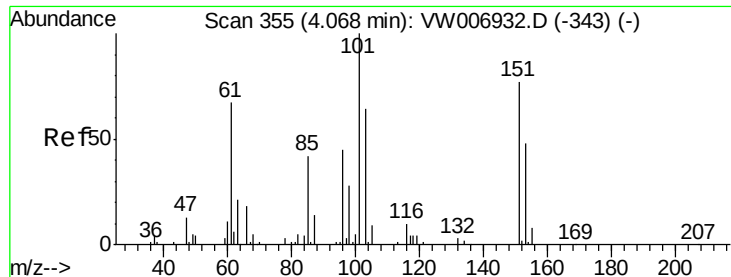
#8

Diethyl Ether  
 Concen: 46.827 ug/l  
 RT: 3.69 min Scan# 293  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 74 Resp: 27783  
 Ion Ratio Lower Upper  
 74 100  
 45 94.6 48.0 144.2







#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.358 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

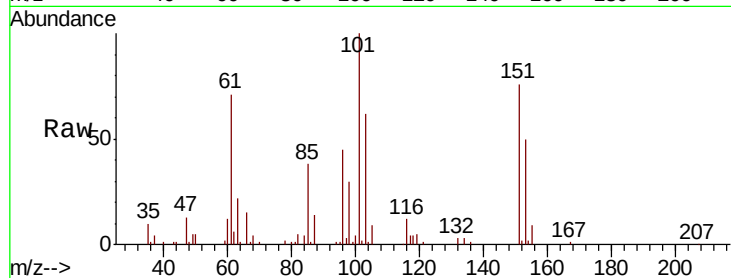
Tot Ion:101 Resp: 50143

Ion Ratio Lower Upper

101 100

85 43.1 34.5 51.7

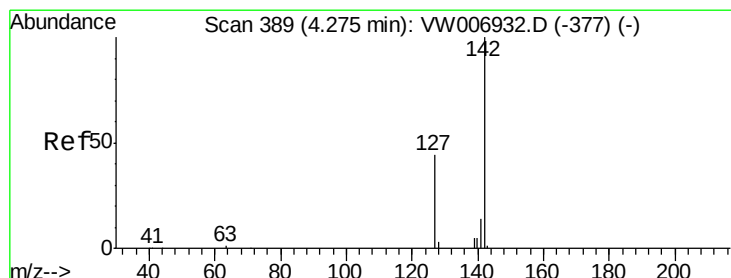
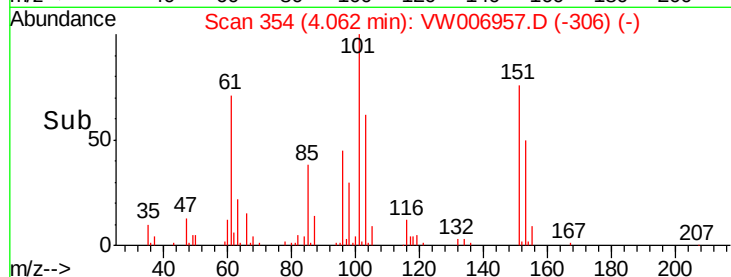
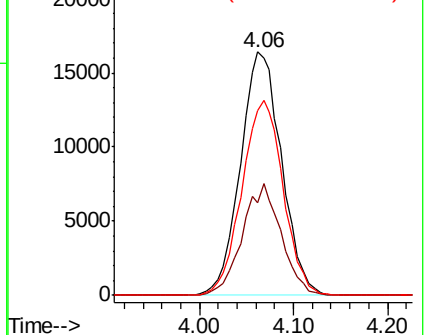
151 80.2 61.5 92.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 38.339 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

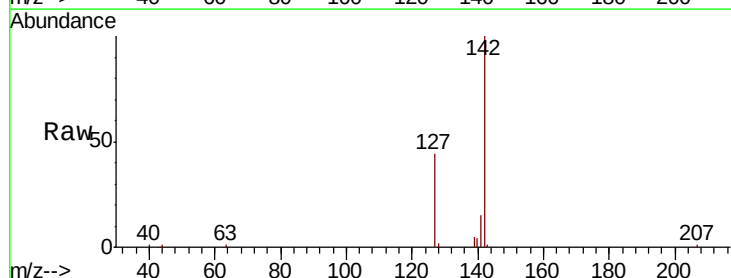
Tgt Ion:142 Resp: 49098

Ion Ratio Lower Upper

142 100

127 44.0 34.4 51.6

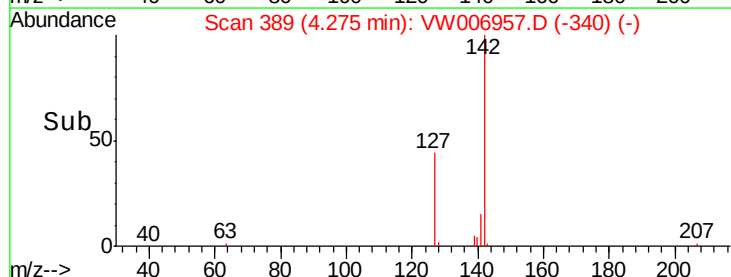
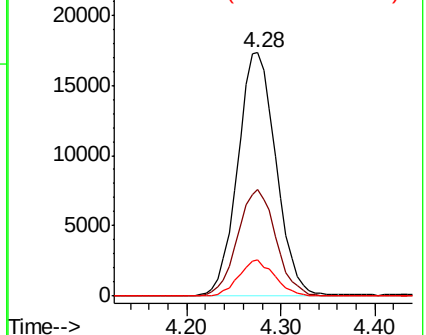
141 14.0 11.5 17.3

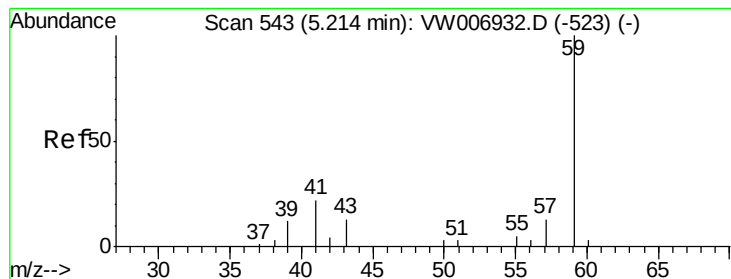


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



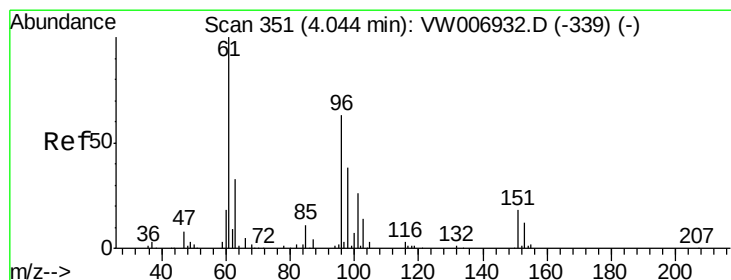
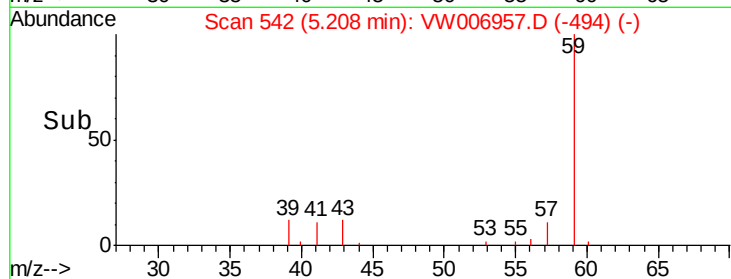
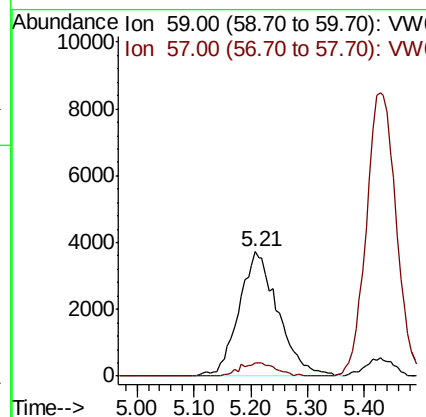
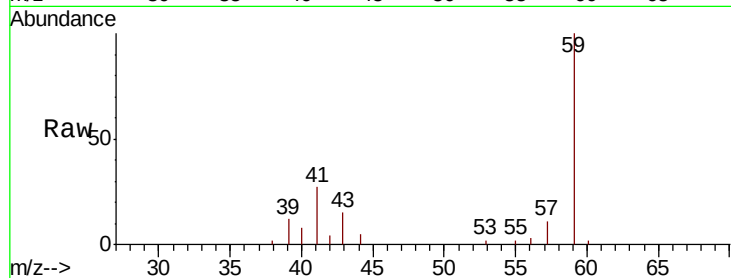


#11

Tert butyl alcohol  
 Concen: 203.950 ug/l  
 RT: 5.21 min Scan# 542  
 Delta R.T. -0.01 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

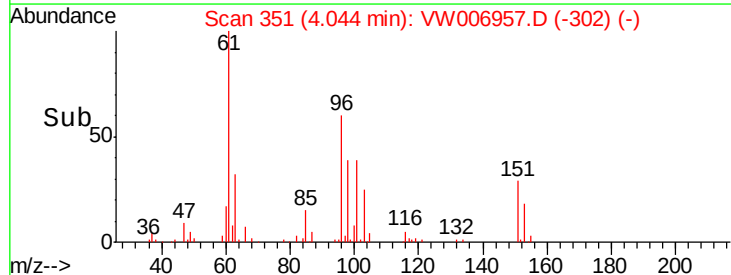
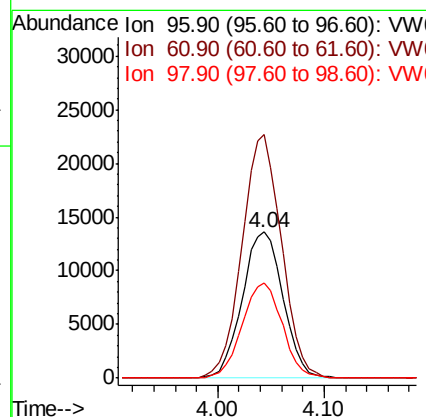
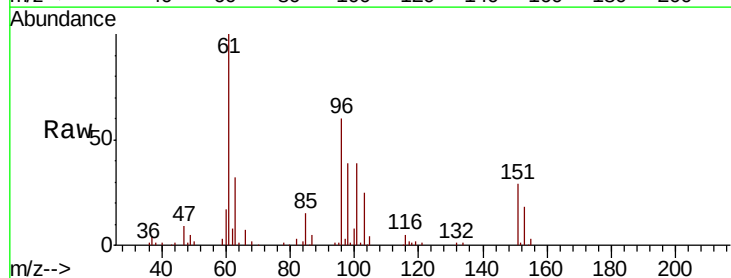
Tot Ion: 59 Resp: 17829  
 Ion Ratio Lower Upper  
 59 100  
 57 9.6 8.8 13.2

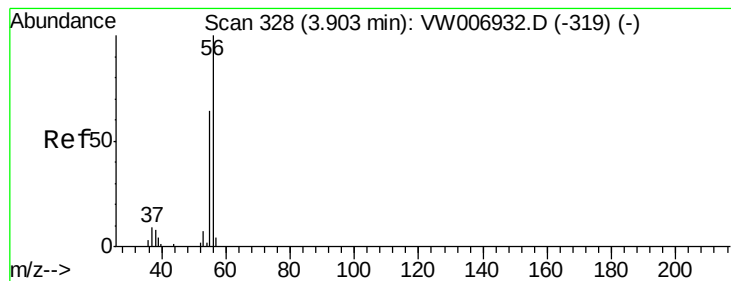


#12

1,1-Dichloroethene  
 Concen: 38.605 ug/l  
 RT: 4.04 min Scan# 351  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 96 Resp: 36673  
 Ion Ratio Lower Upper  
 96 100  
 61 166.7 127.8 191.8  
 98 64.9 48.3 72.5





#13

Acrolein

Concen: 192.716 ug/l

RT: 3.90 min Scan# 328

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

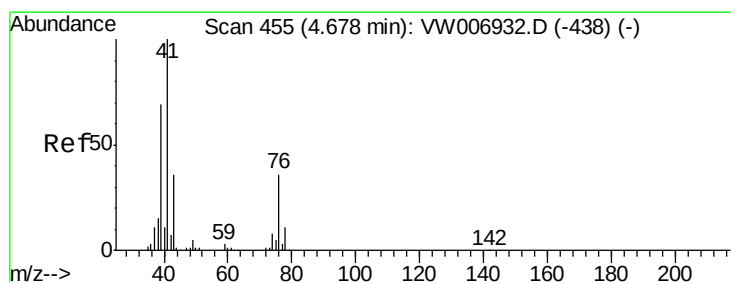
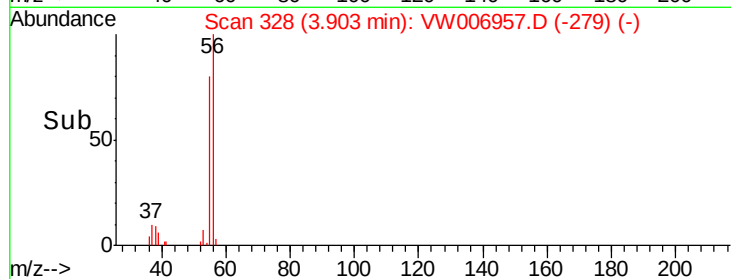
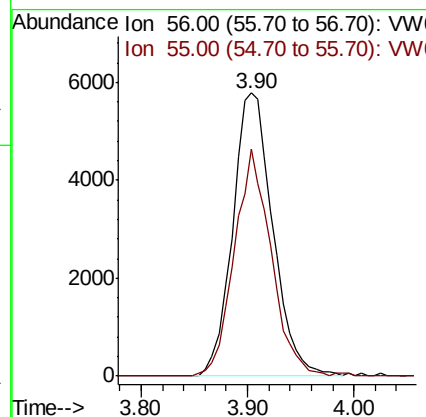
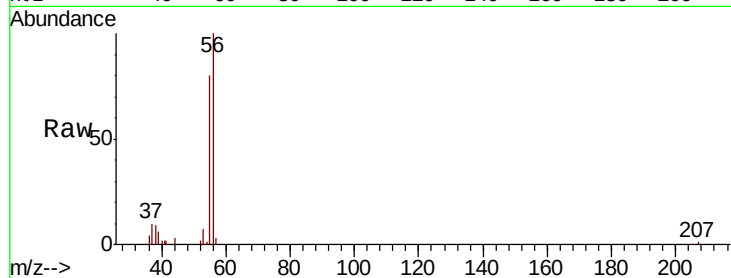
DTW-02(11-13)MSD

Tot Ion: 56 Resp: 15276

Ion Ratio Lower Upper

56 100

55 73.6 56.5 84.7



#14

Allyl chloride

Concen: 34.977 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

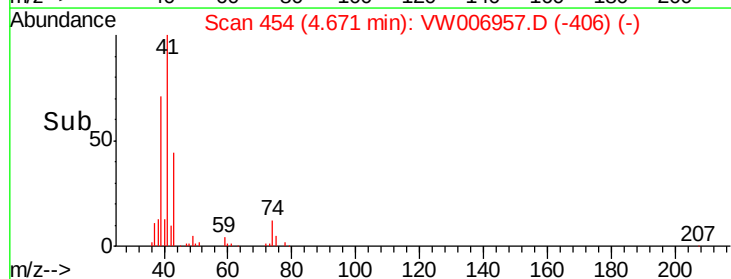
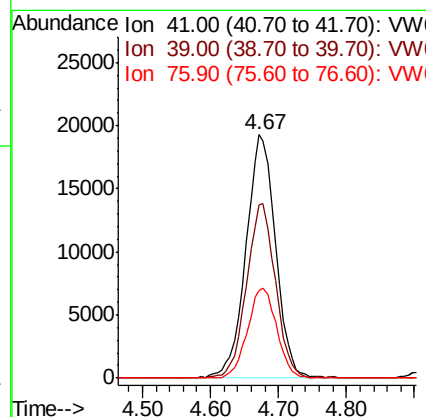
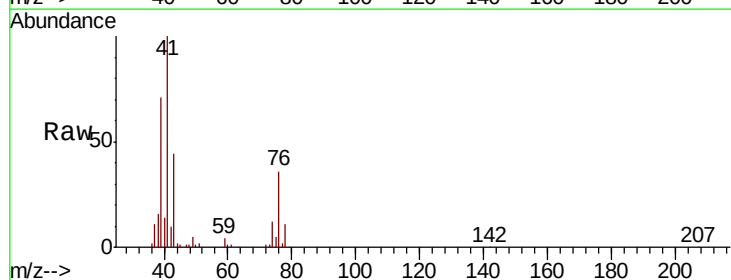
Tgt Ion: 41 Resp: 58452

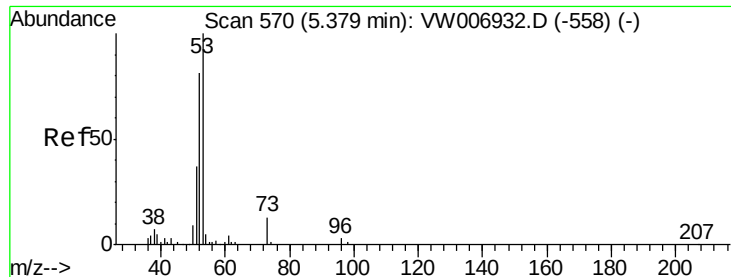
Ion Ratio Lower Upper

41 100

39 69.8 55.0 82.4

76 36.3 28.0 42.0





#15

Acrylonitrile

Concen: 225.224 ug/l

RT: 5.38 min Scan# 570

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

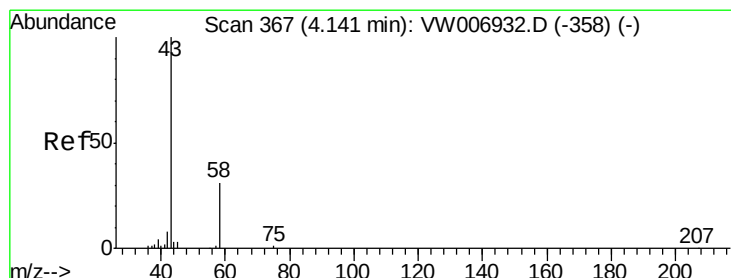
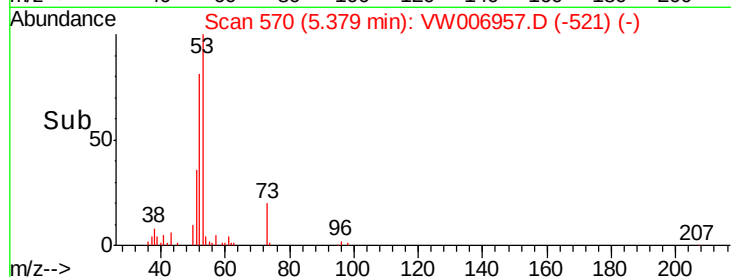
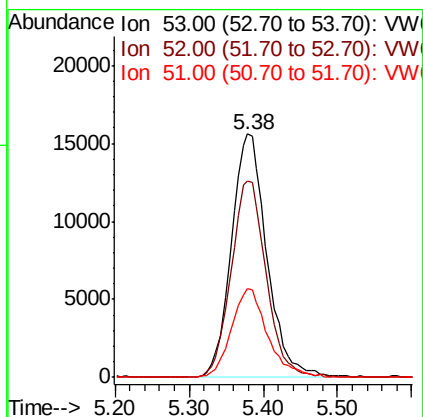
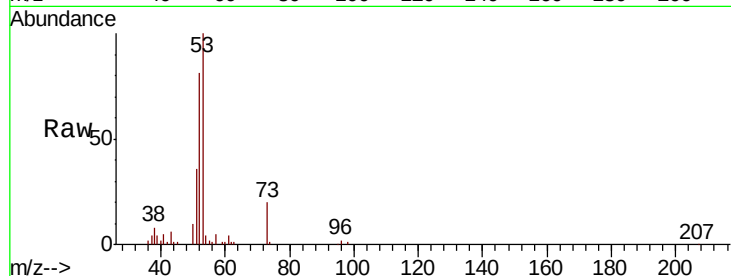
Tot Ion: 53 Resp: 52008

Ion Ratio Lower Upper

53 100

52 79.7 67.0 100.6

51 37.1 29.8 44.6



#16

Acetone

Concen: 261.610 ug/l

RT: 4.14 min Scan# 367

Delta R.T. -0.00 min

Lab File: VW006957.D

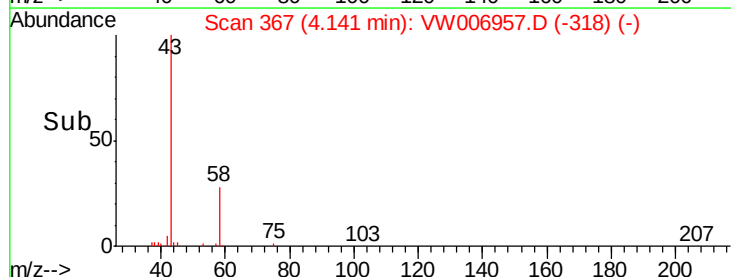
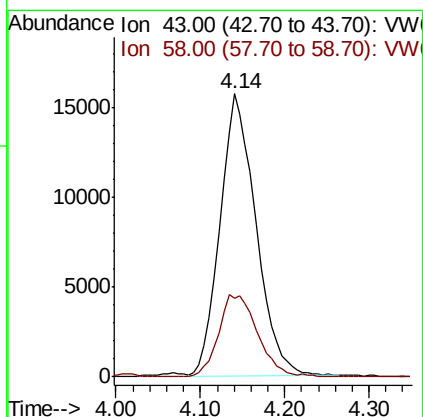
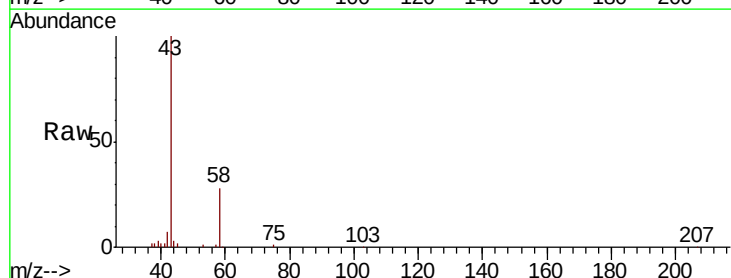
Acq: 19 Nov 2018 21:50

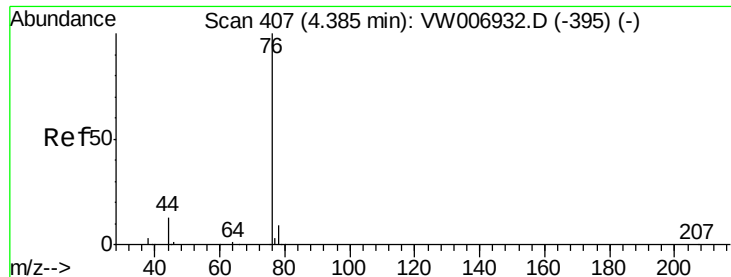
Tgt Ion: 43 Resp: 45981

Ion Ratio Lower Upper

43 100

58 28.1 24.2 36.4





#17

Carbon Disulfide

Concen: 18.478 ug/l

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

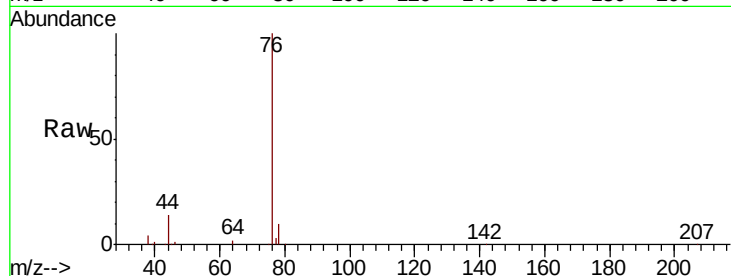
DTW-02(11-13)MSD

Tot Ion: 76 Resp: 55531

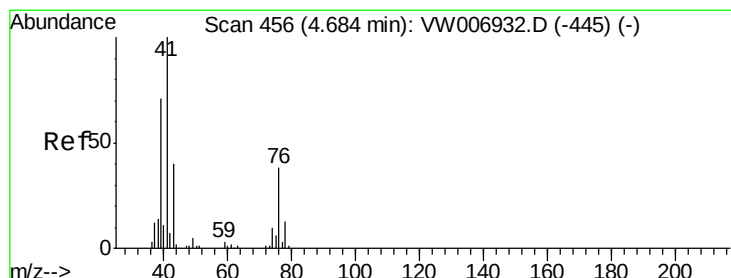
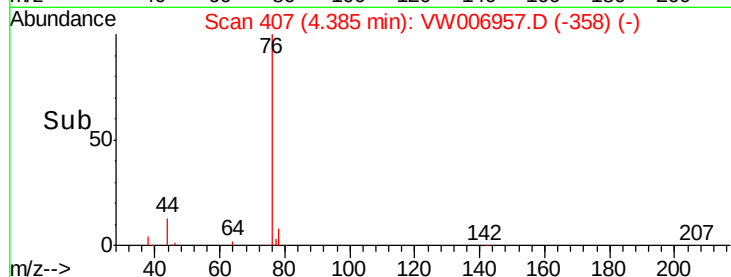
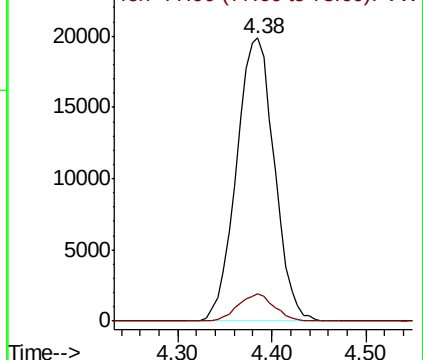
Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW  
Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 47.161 ug/l

RT: 4.68 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW006957.D

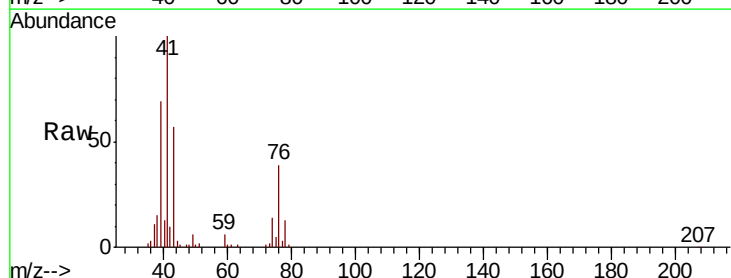
Acq: 19 Nov 2018 21:50

Tgt Ion: 43 Resp: 30334

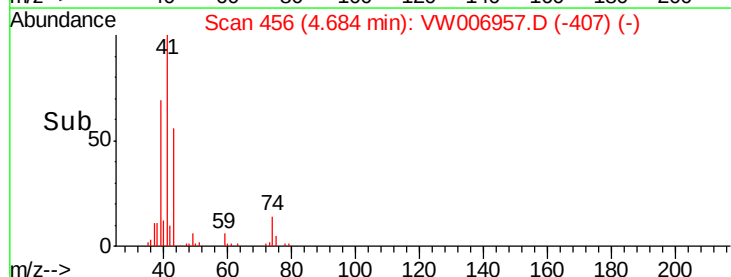
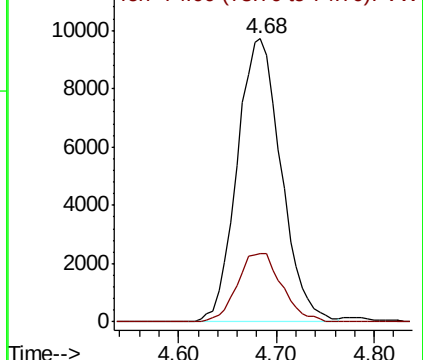
Ion Ratio Lower Upper

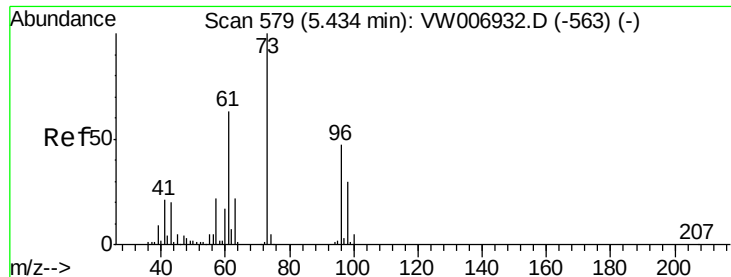
43 100

74 24.5 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 74.00 (73.70 to 74.70): VW



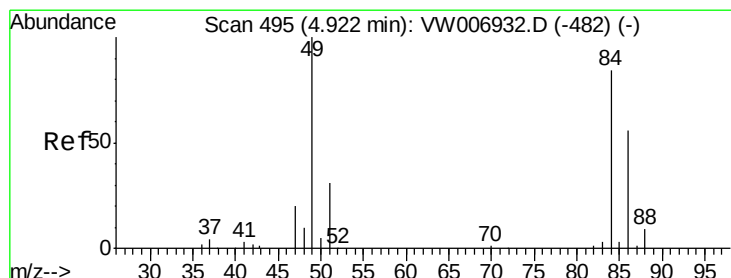
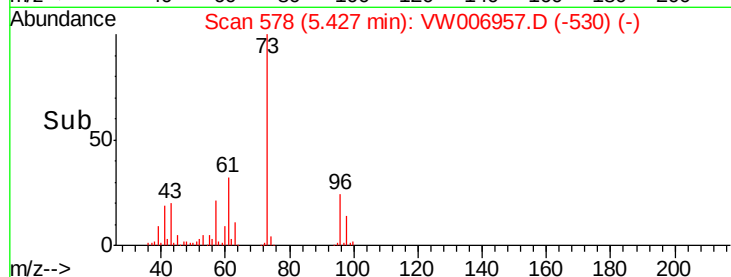
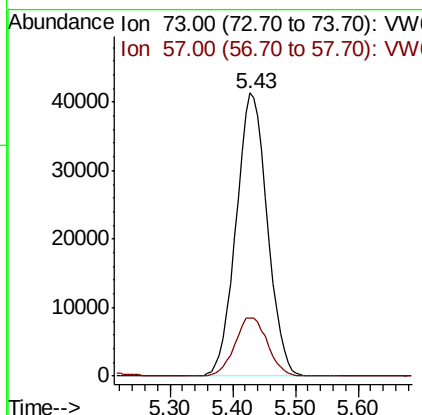
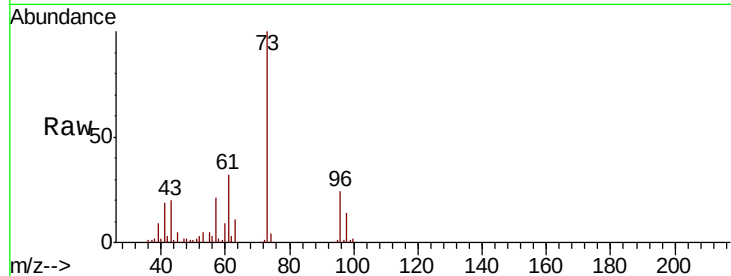


#19

Methyl tert-butyl Ether  
 Concen: 51.122 ug/l  
 RT: 5.43 min Scan# 578  
 Delta R.T. -0.01 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

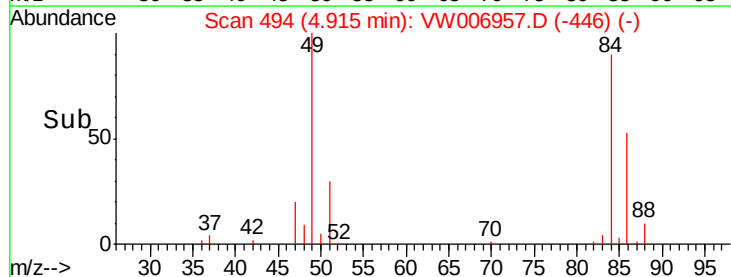
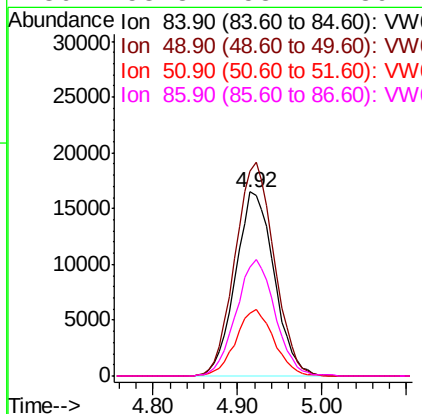
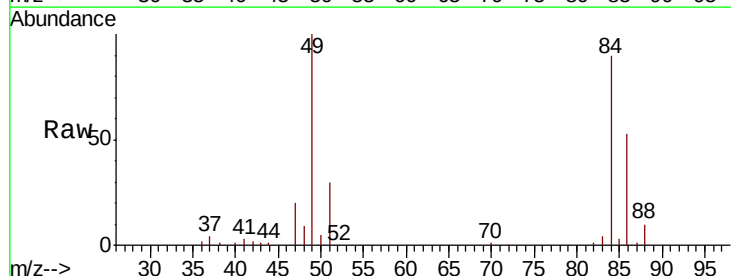
Tot Ion: 73 Resp: 142365  
 Ion Ratio Lower Upper  
 73 100  
 57 20.5 17.5 26.3

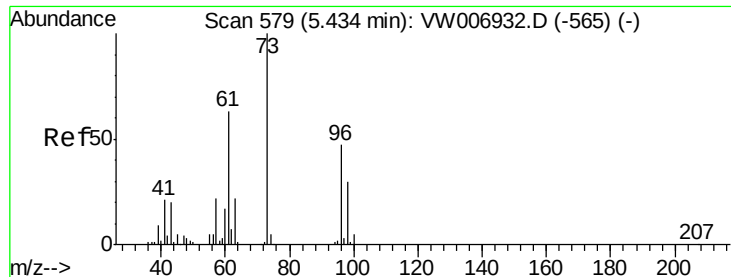


#20

Methylene Chloride  
 Concen: 41.919 ug/l  
 RT: 4.92 min Scan# 494  
 Delta R.T. -0.01 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 84 Resp: 51402  
 Ion Ratio Lower Upper  
 84 100  
 49 111.5 95.4 143.2  
 51 33.9 29.5 44.3  
 86 58.8 53.4 80.2





#21

trans-1,2-Dichloroethene

Concen: 24.529 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

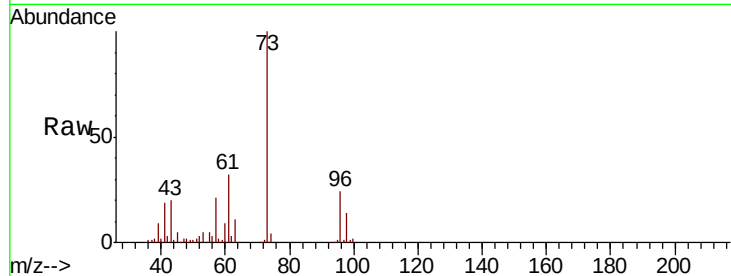
Tot Ion: 96 Resp: 27796

Ion Ratio Lower Upper

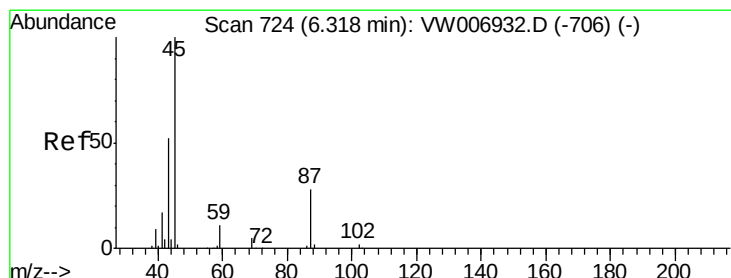
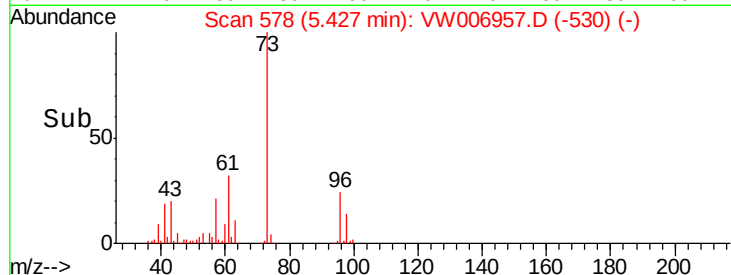
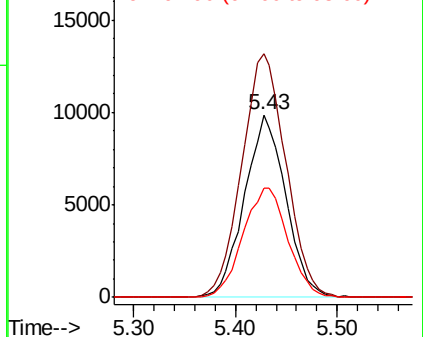
96 100

61 133.3 108.2 162.4

98 59.7 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 50.134 ug/l

RT: 6.32 min Scan# 724

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Tgt Ion: 45 Resp: 171009

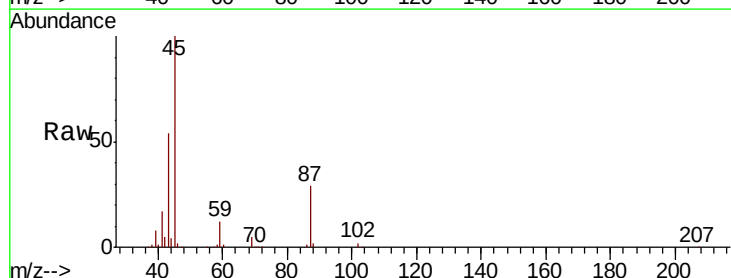
Ion Ratio Lower Upper

45 100

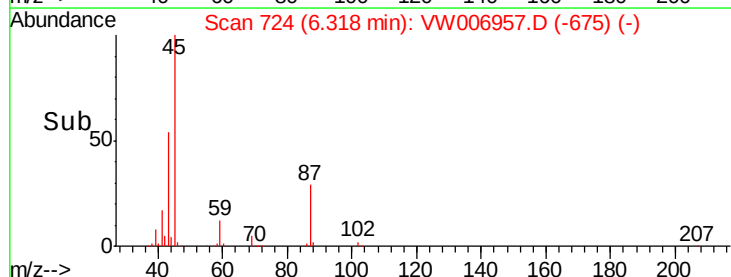
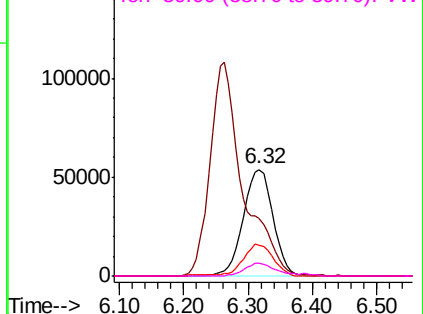
43 53.3 43.1 64.7

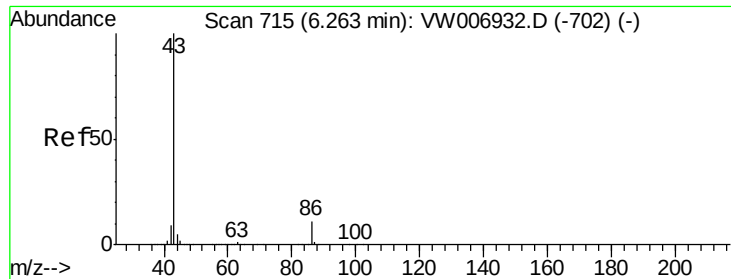
87 29.2 22.7 34.1

59 11.7 9.0 13.4



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW

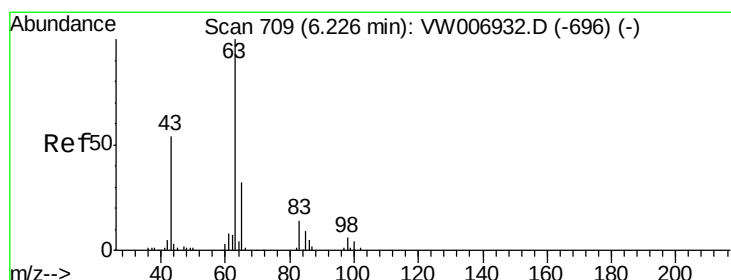
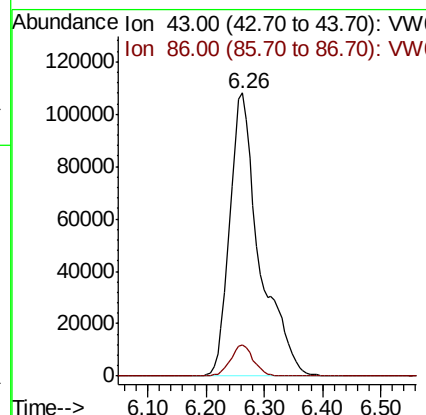
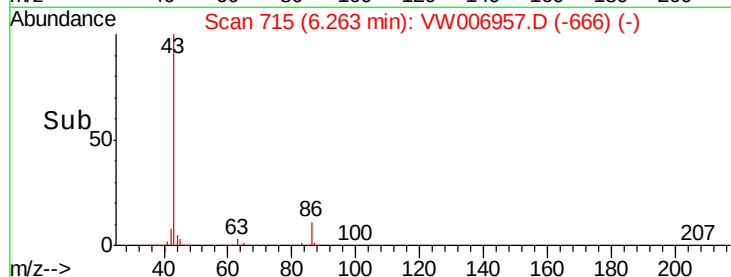
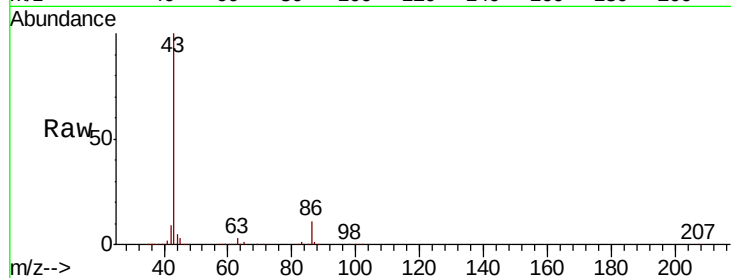




#23  
 Vinyl Acetate  
 Concen: 204.192 ug/l  
 RT: 6.26 min Scan# 715  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

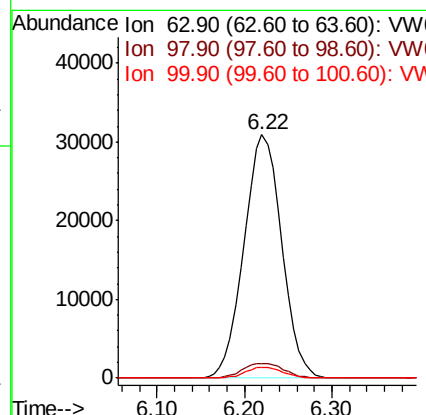
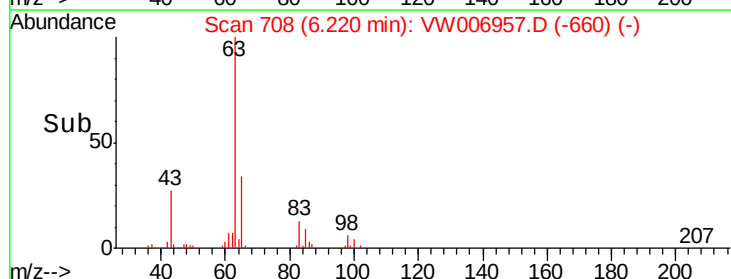
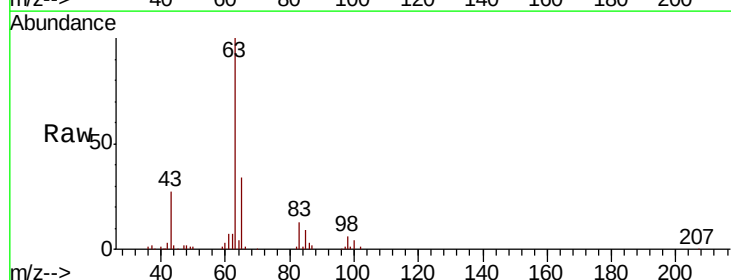
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

Tot Ion: 43 Resp: 385695  
 Ion Ratio Lower Upper  
 43 100  
 86 10.8 8.7 13.1

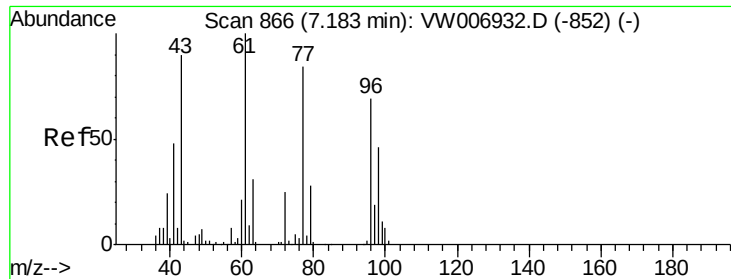


#24  
 1,1-Dichloroethane  
 Concen: 47.316 ug/l  
 RT: 6.22 min Scan# 708  
 Delta R.T. -0.01 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 63 Resp: 92935  
 Ion Ratio Lower Upper  
 63 100  
 98 6.0 3.2 9.6  
 100 4.4 2.1 6.5







#25

2-Butanone

Concen: 249.770 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

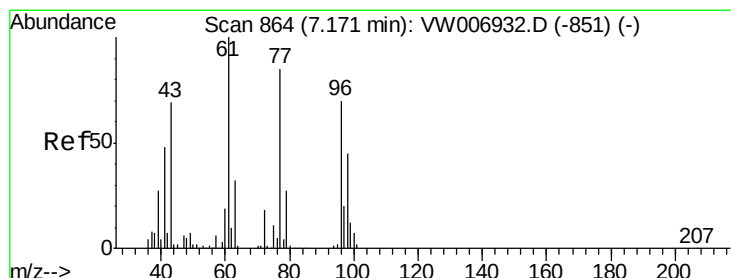
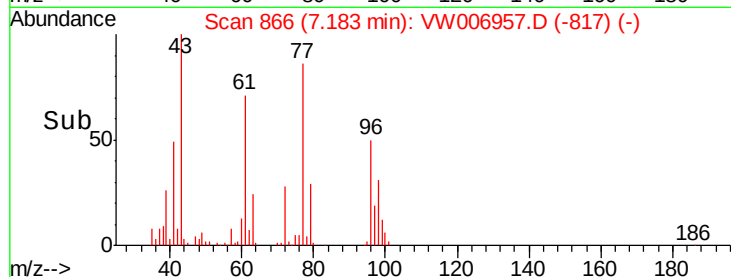
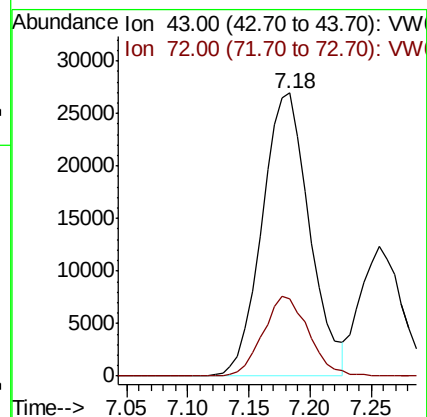
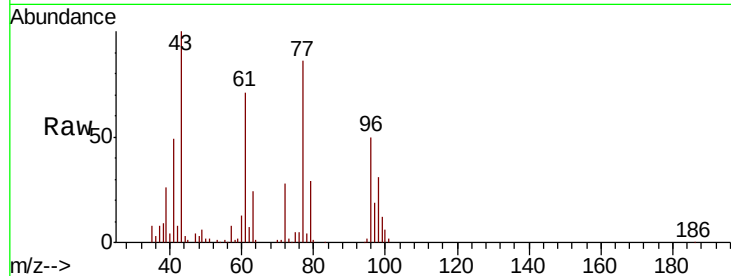
DTW-02(11-13)MSD

Tot Ion: 43 Resp: 72908

Ion Ratio Lower Upper

43 100

72 27.5 22.1 33.1



#26

2,2-Dichloropropane

Concen: 49.130 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW006957.D

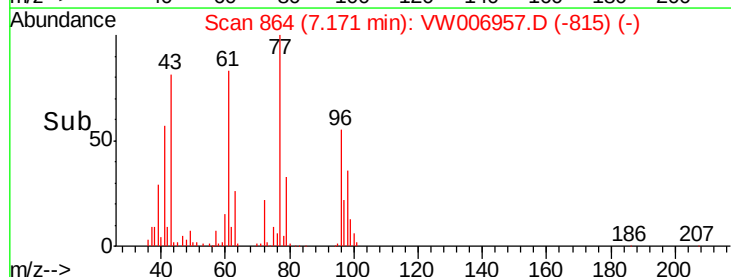
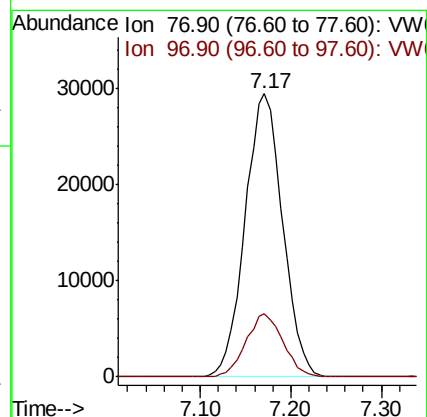
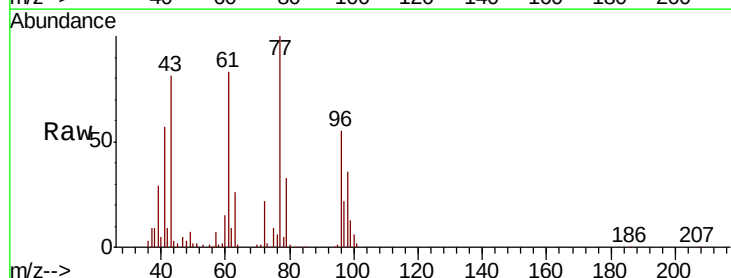
Acq: 19 Nov 2018 21:50

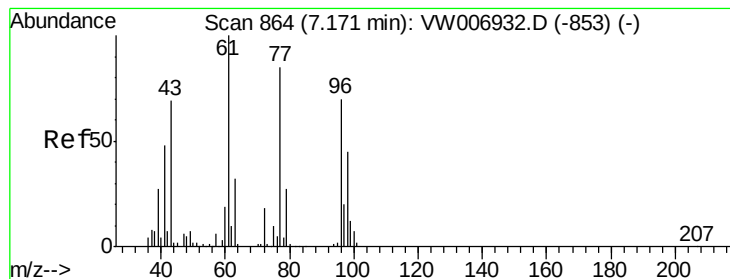
Tgt Ion: 77 Resp: 84199

Ion Ratio Lower Upper

77 100

97 22.0 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 33.108 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

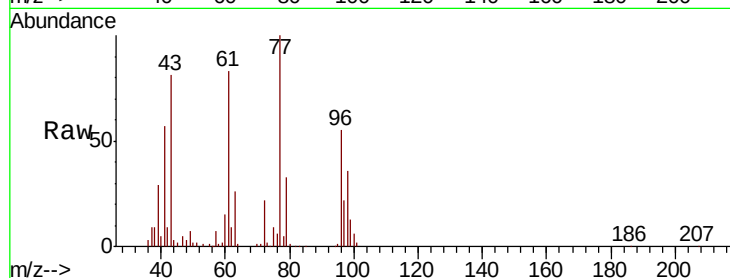
Tot Ion: 96 Resp: 41713

Ion Ratio Lower Upper

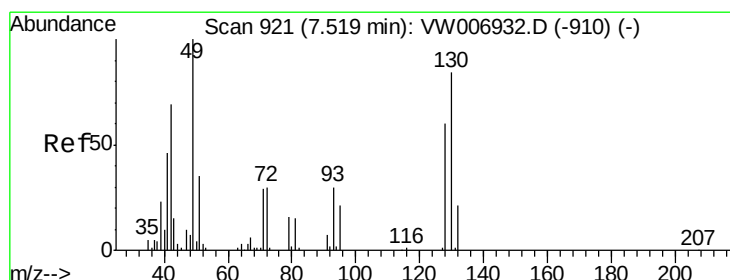
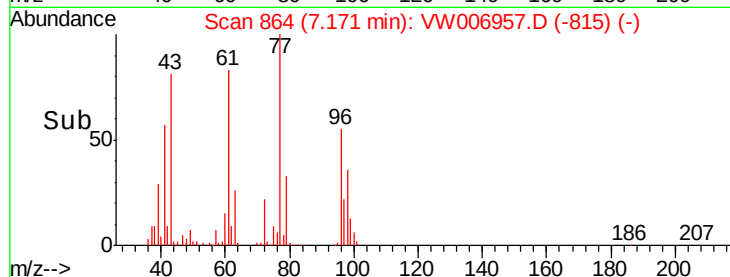
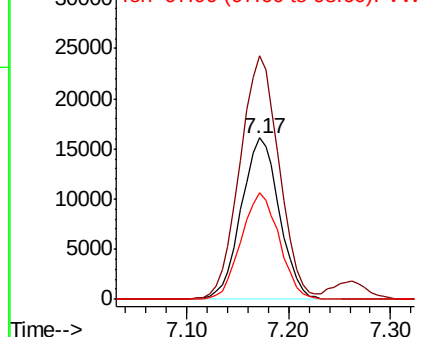
96 100

61 155.3 0.0 293.8

98 66.1 0.0 131.0



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#28

Bromochloromethane

Concen: 34.113 ug/l

RT: 7.51 min Scan# 920

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

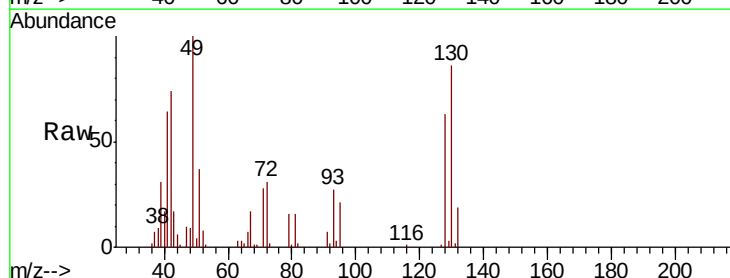
Tgt Ion: 49 Resp: 24609

Ion Ratio Lower Upper

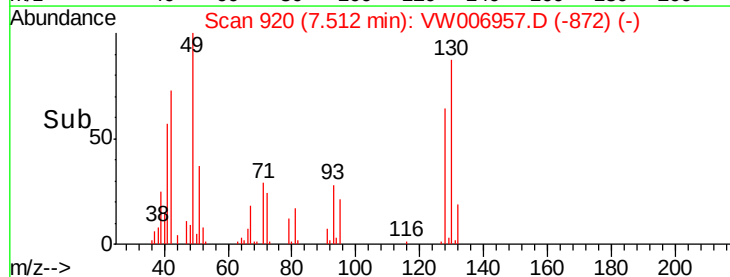
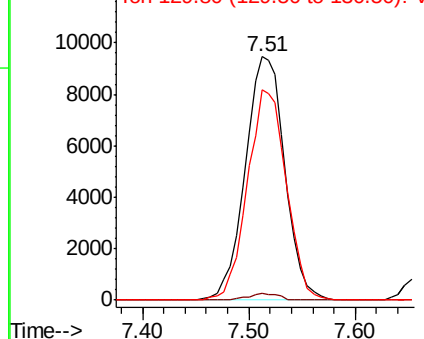
49 100

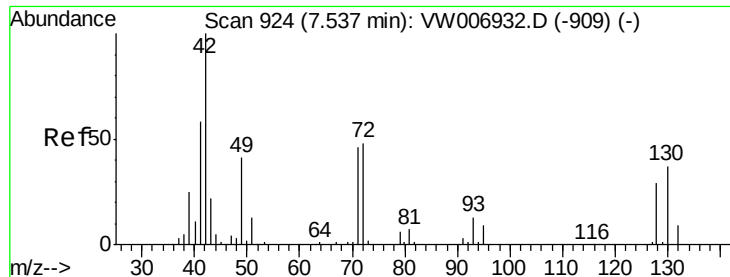
129 2.1 0.0 1.6#

130 84.8 66.1 99.1



Abundance Ion 48.90 (48.60 to 49.60): VW  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

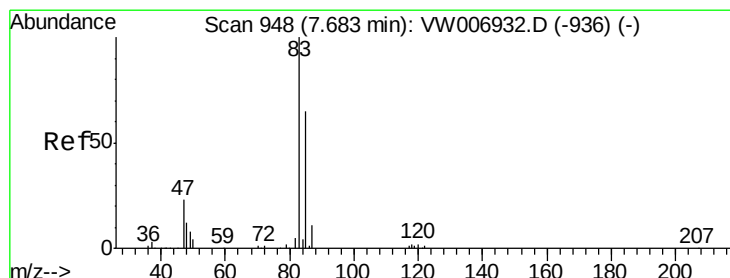
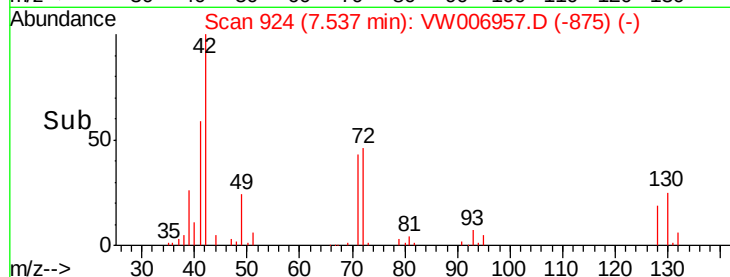
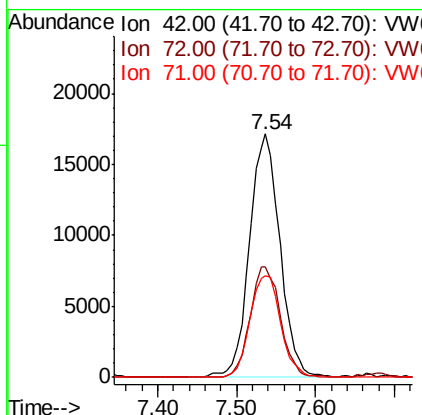
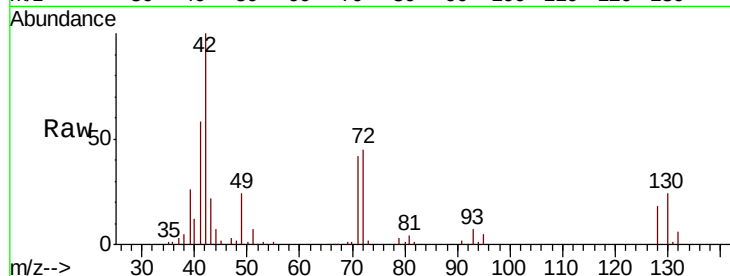




#29  
Tetrahydrofuran  
Concen: 243.064 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

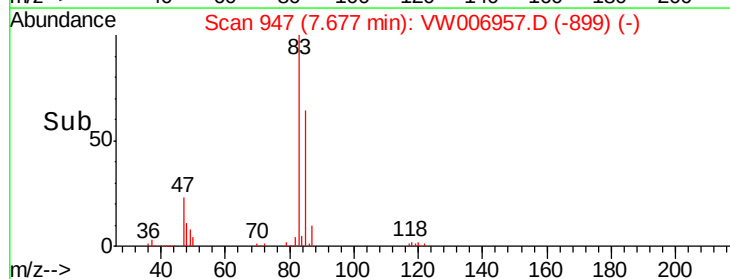
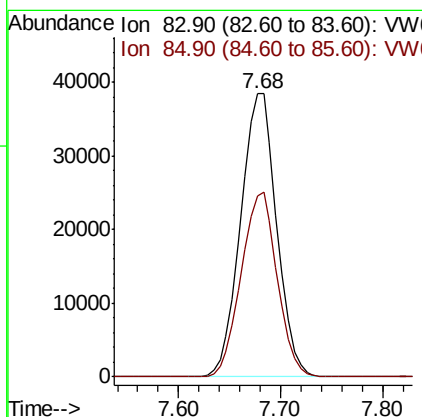
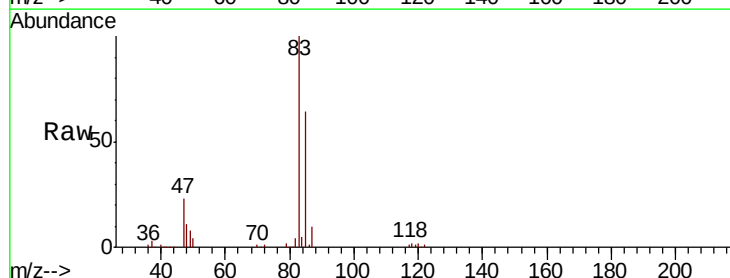
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

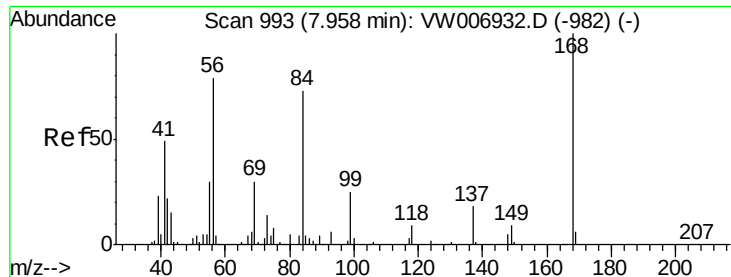
Tot Ion: 42 Resp: 46141  
Ion Ratio Lower Upper  
42 100  
72 44.9 35.7 53.5  
71 42.1 33.7 50.5



#30  
Chloroform  
Concen: 43.860 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 83 Resp: 94446  
Ion Ratio Lower Upper  
83 100  
85 64.1 52.2 78.4

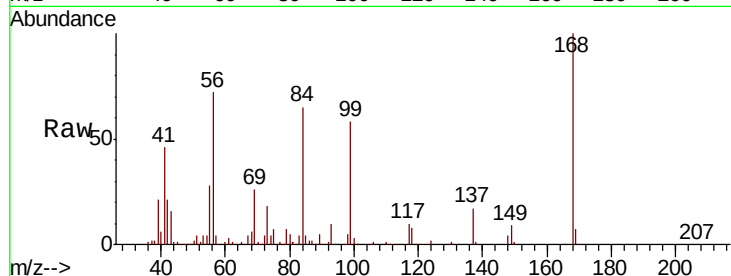




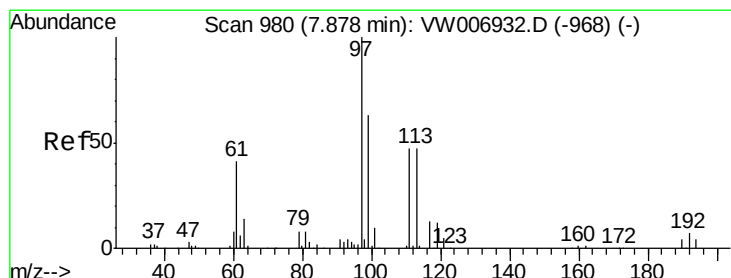
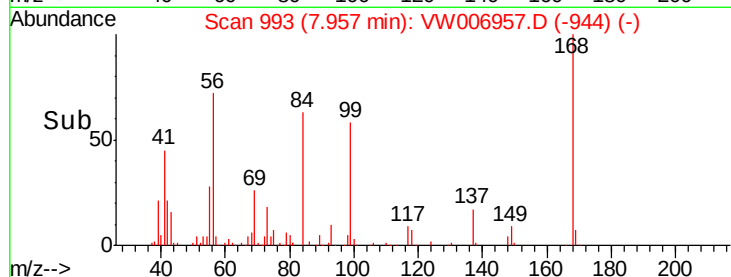
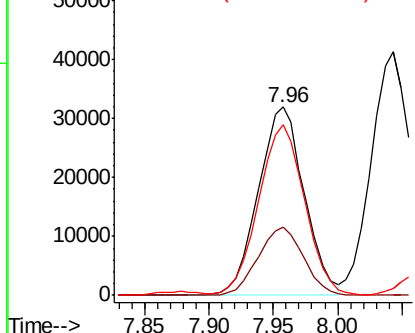
#31  
Cyclohexane  
Concen: 40.186 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

Tot Ion: 56 Resp: 79076  
Ion Ratio Lower Upper  
56 100  
69 36.5 30.2 45.2  
84 89.0 73.6 110.4

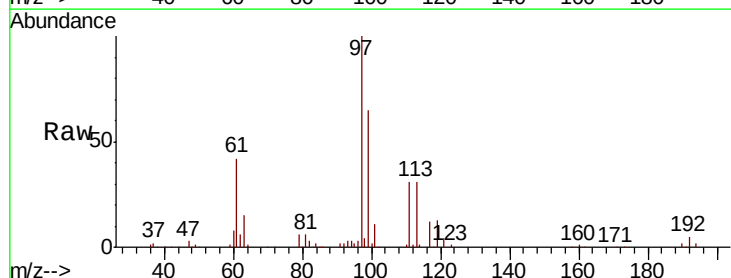


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

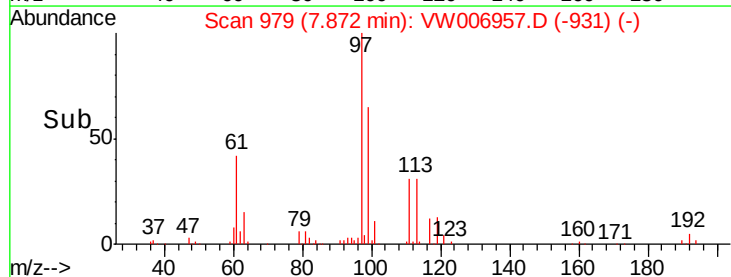
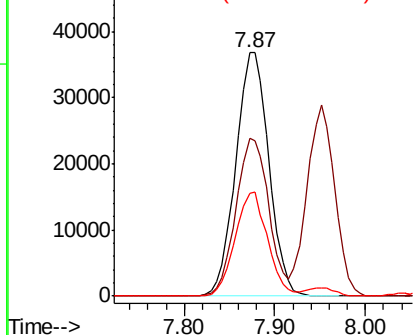


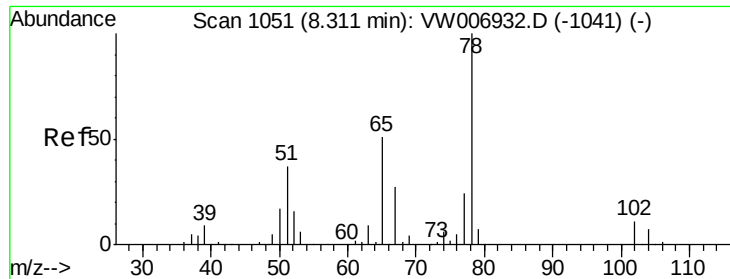
#32  
1,1,1-Trichloroethane  
Concen: 50.203 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. -0.01 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 97 Resp: 93067  
Ion Ratio Lower Upper  
97 100  
99 64.9 51.0 76.6  
61 41.7 34.2 51.2



Abundance Ion 96.90 (96.60 to 97.60): VW  
Ion 98.90 (98.60 to 99.60): VW  
Ion 60.90 (60.60 to 61.60): VW

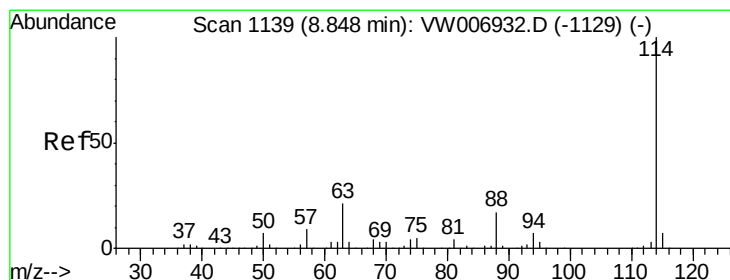
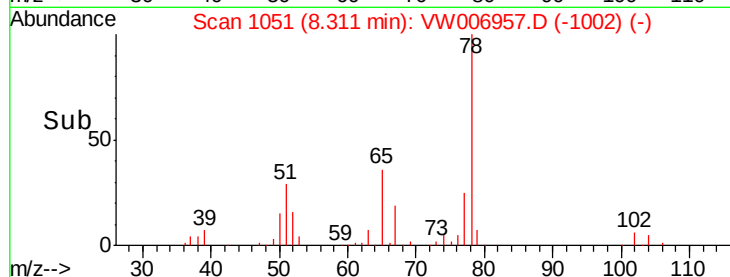
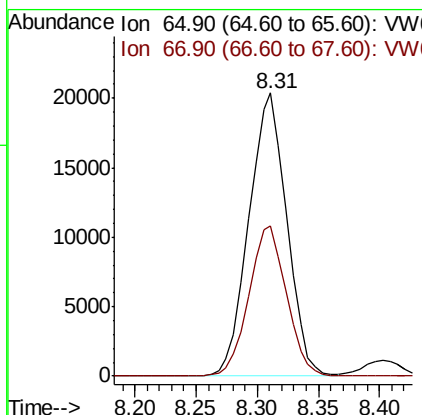
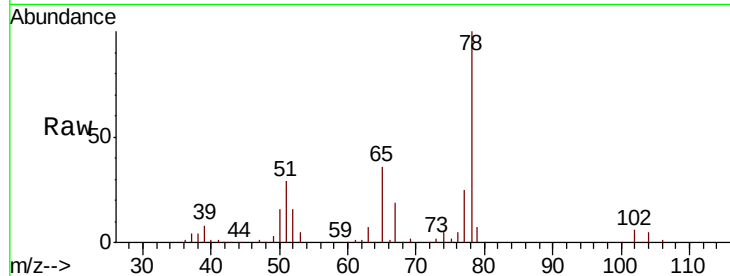




#33  
1,2-Dichloroethane-d4  
Concen: 38.257 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

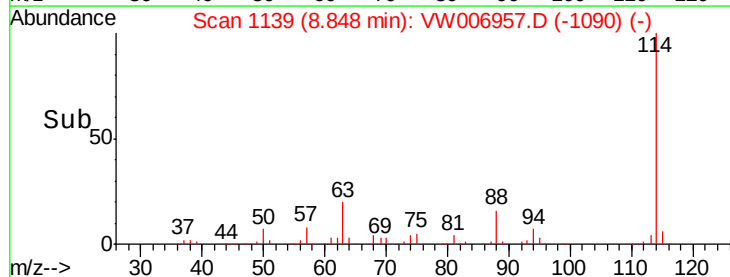
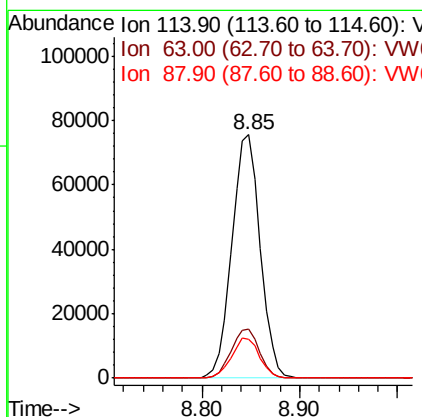
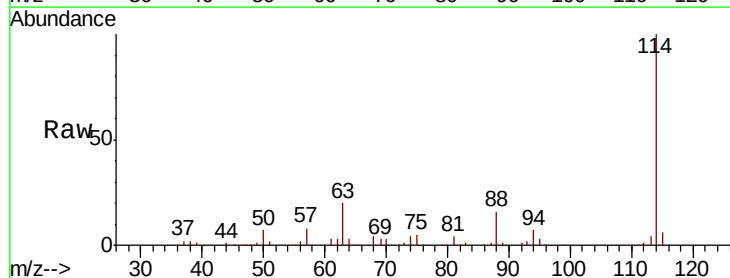
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

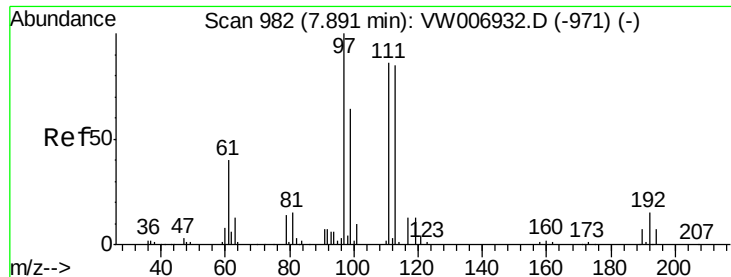
Tot Ion: 65 Resp: 43960  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 104.0



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.85 min Scan# 1139  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 114 Resp: 151349  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 42.2  
88 16.1 0.0 33.4





#35

Dibromofluoromethane

Concen: 47.311 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

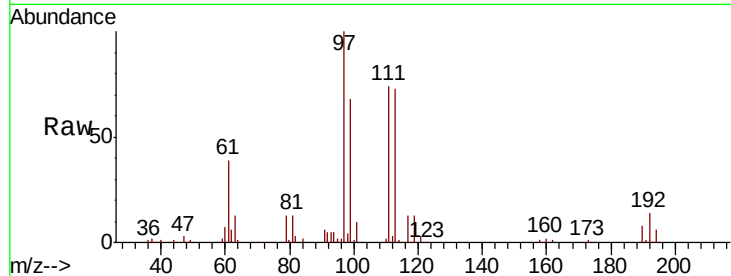
Tot Ion:113 Resp: 41927

Ion Ratio Lower Upper

113 100

111 102.9 81.7 122.5

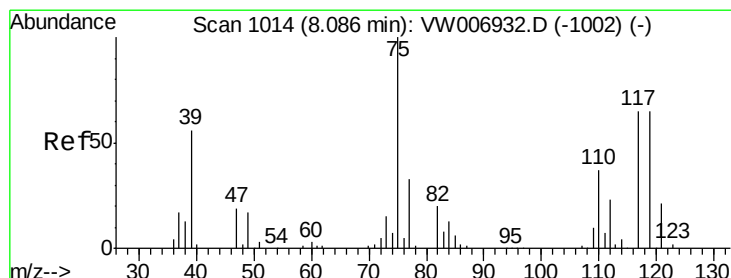
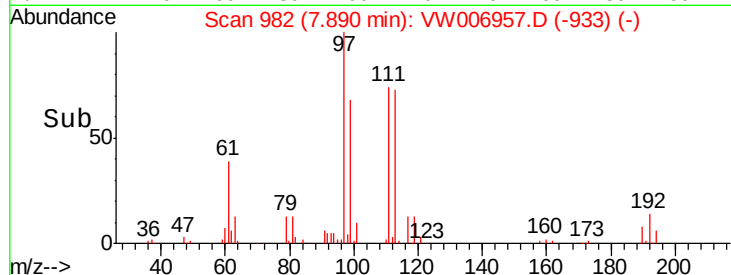
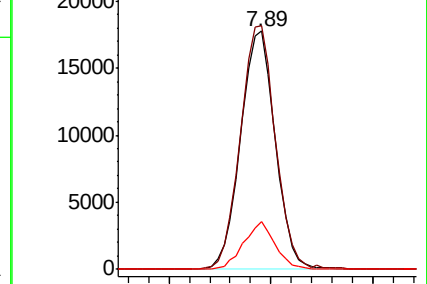
192 18.0 13.9 20.9



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: 39.104 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

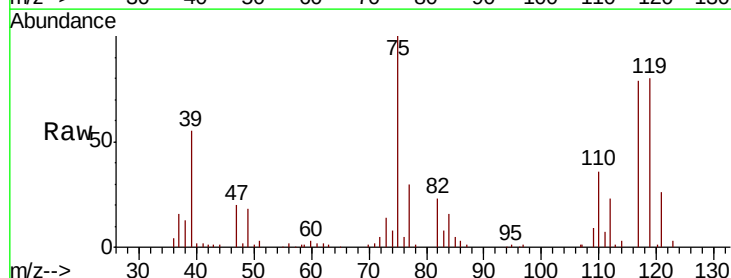
Tgt Ion: 75 Resp: 56382

Ion Ratio Lower Upper

75 100

110 35.8 18.1 54.1

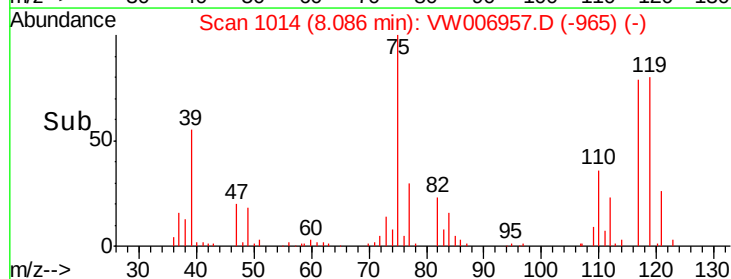
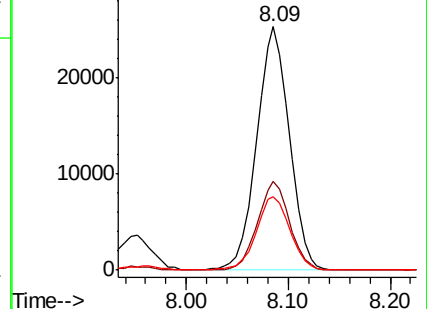
77 31.1 25.4 38.0

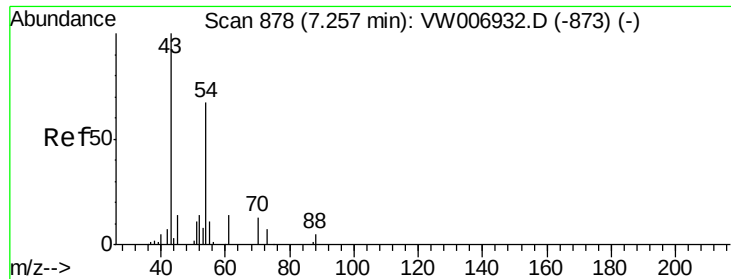


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

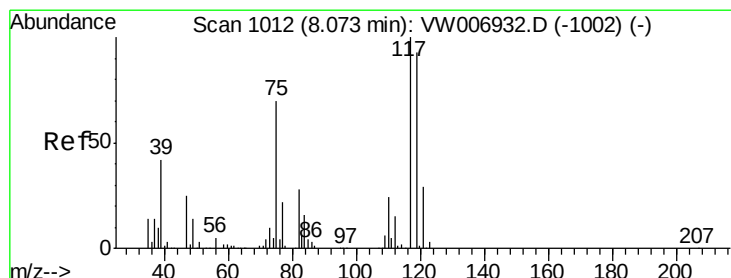
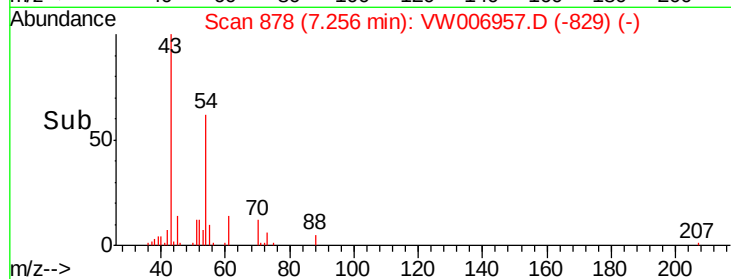
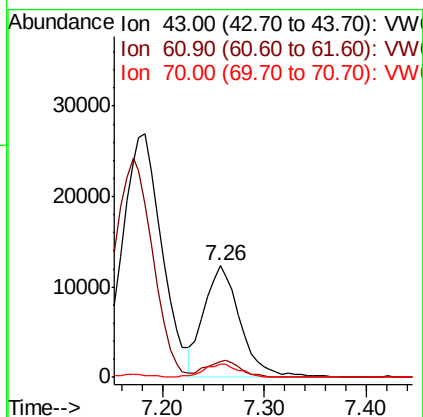
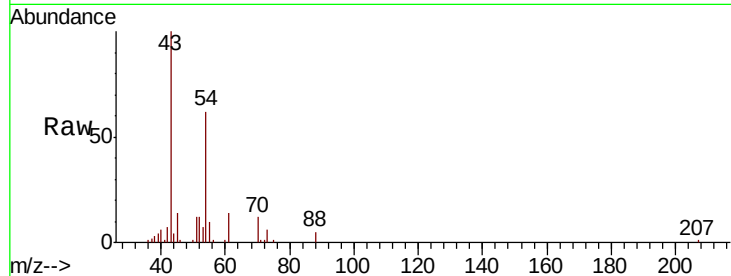




#37  
Ethyl Acetate  
Concen: 49.241 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

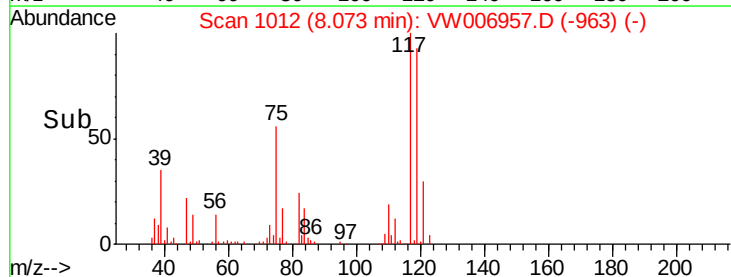
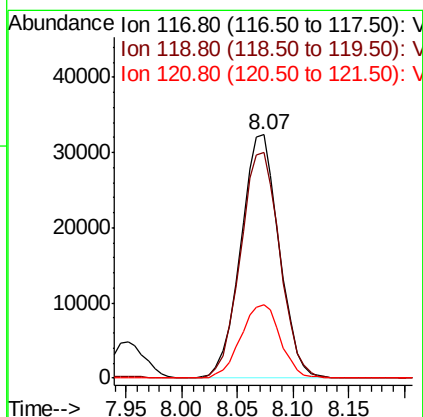
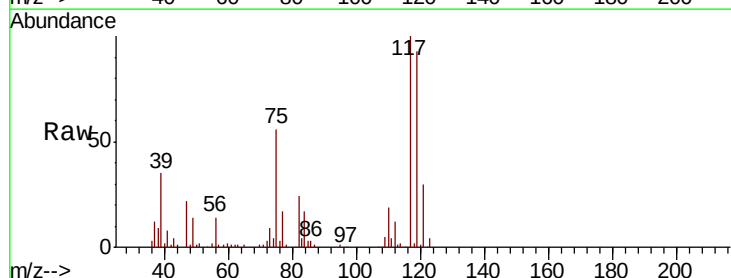
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

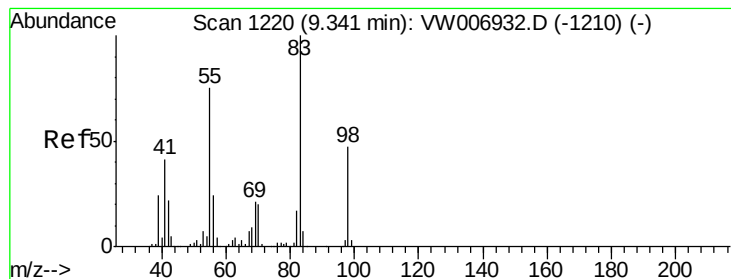
Tot Ion: 43 Resp: 30187  
Ion Ratio Lower Upper  
43 100  
61 14.7 11.0 16.6  
70 12.3 8.8 13.2



#38  
Carbon Tetrachloride  
Concen: 54.523 ug/l  
RT: 8.07 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 117 Resp: 77259  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.2 111.4  
121 29.9 23.5 35.3





#39

Methylvlcyclohexane

Concen: 34.745 ug/l

RT: 9.34 min Scan# 1219

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

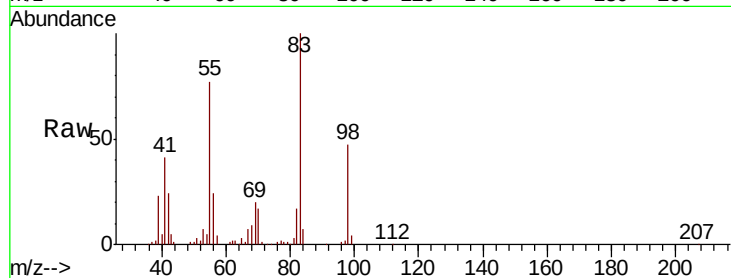
Tot Ion: 83 Resp: 62172

Ion Ratio Lower Upper

83 100

55 76.6 60.2 90.4

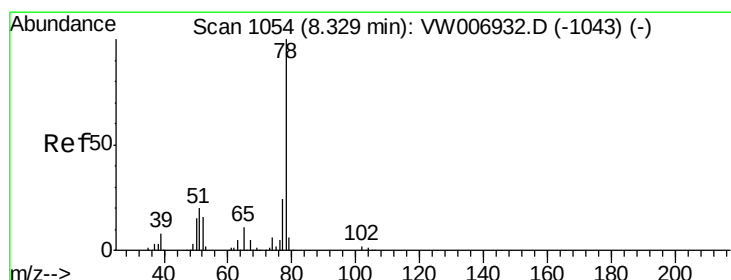
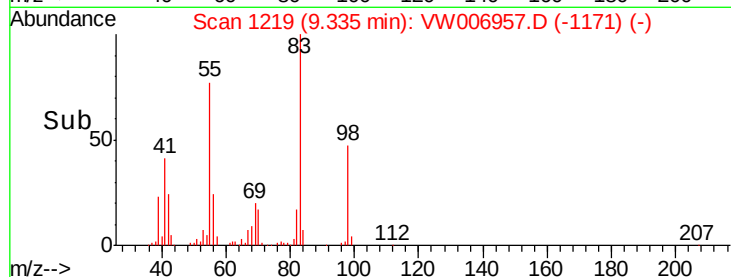
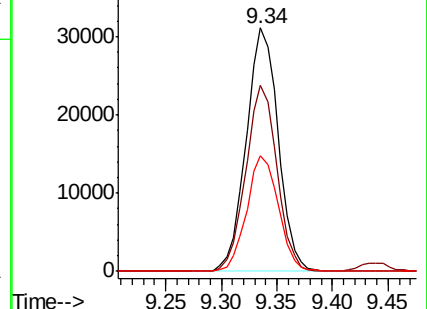
98 47.2 37.3 55.9



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW



#40

Benzene

Concen: 54.266 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW006957.D

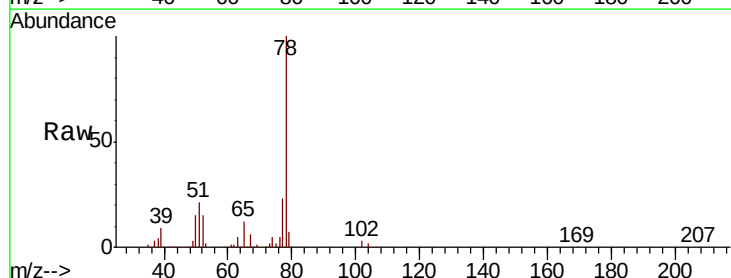
Acq: 19 Nov 2018 21:50

Tgt Ion: 78 Resp: 221134

Ion Ratio Lower Upper

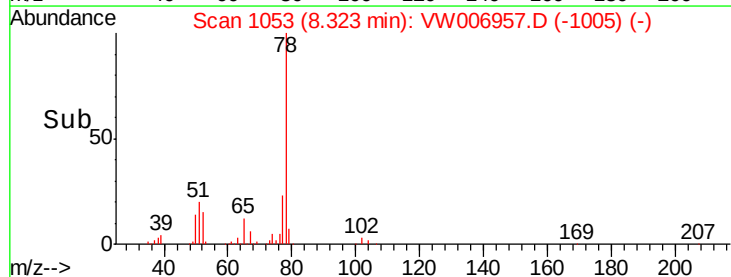
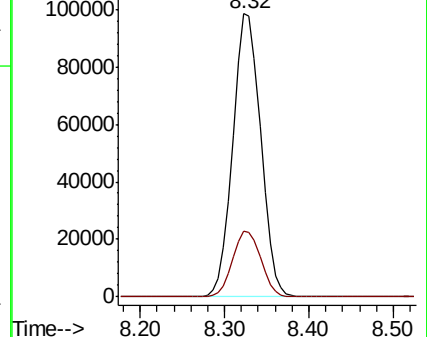
78 100

77 23.1 19.3 28.9

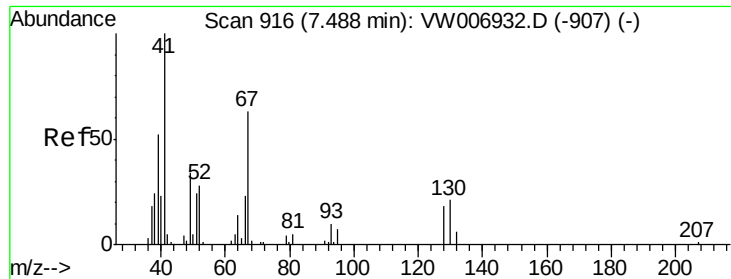


Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW



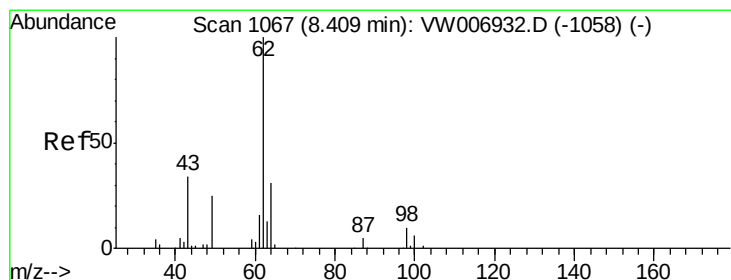
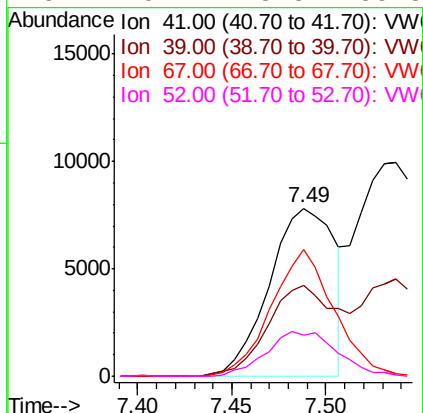
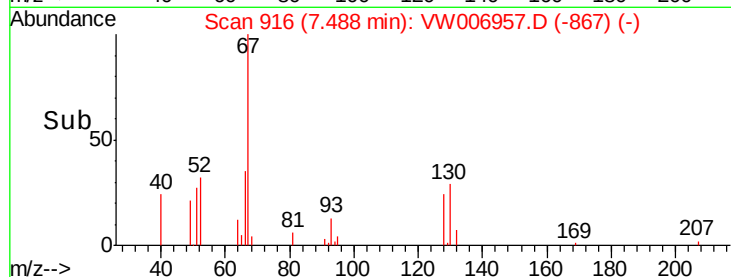
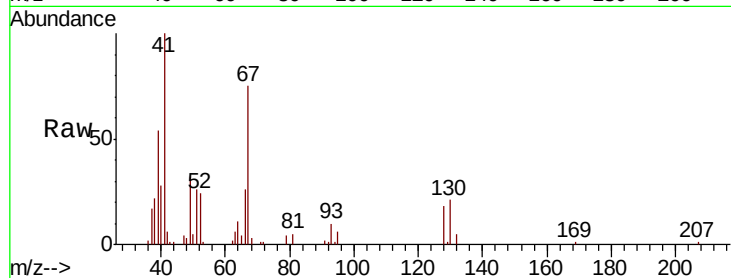




#41  
Methacrylonitrile  
Concen: 50.084 ug/l  
RT: 7.49 min Scan# 916  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

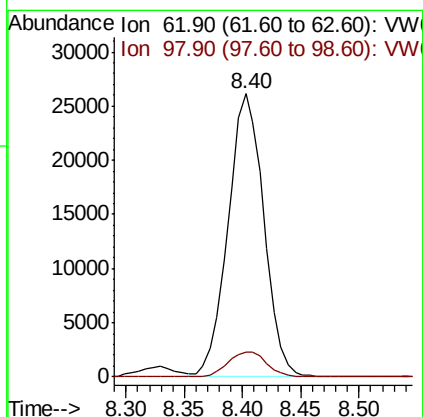
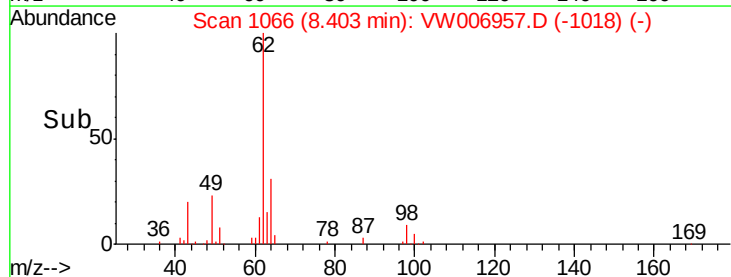
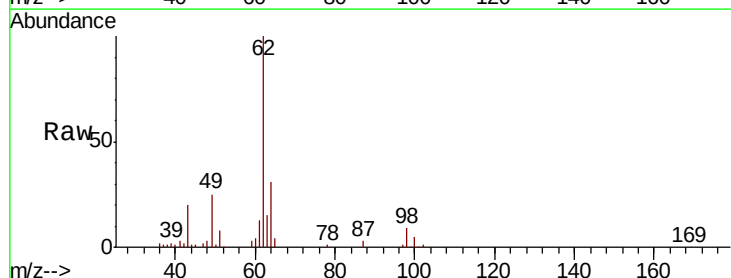
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

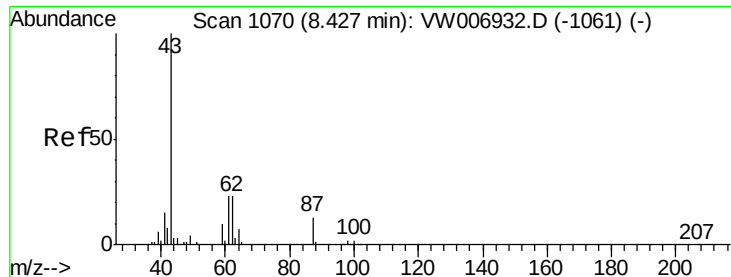
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 18806 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 59.0  | 41.8  | 62.6  |
| 67       | 72.2  | 54.7  | 82.1  |
| 52       | 29.1  | 23.8  | 35.8  |



#42  
1,2-Dichloroethane  
Concen: 45.841 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. -0.01 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 55921 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.4   | 0.0   | 18.2  |





#43

Isopropyl Acetate

Concen: 53.532 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

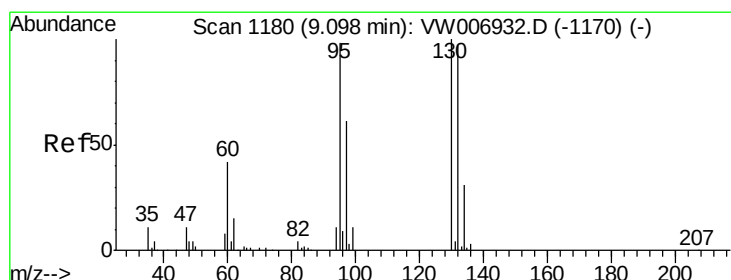
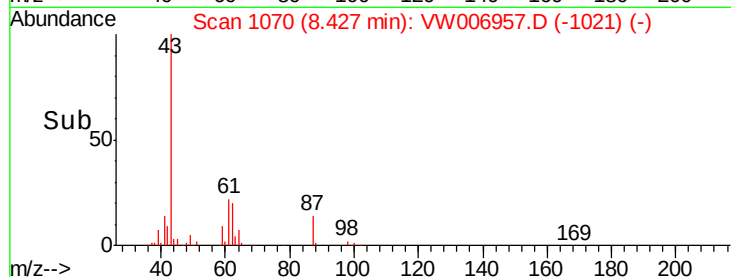
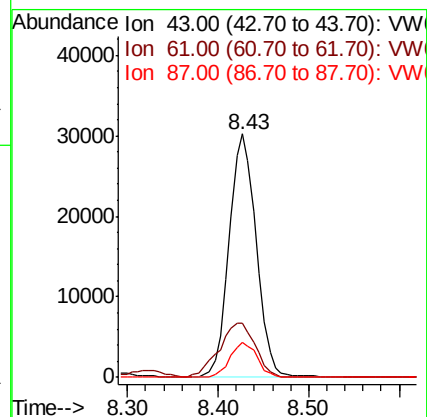
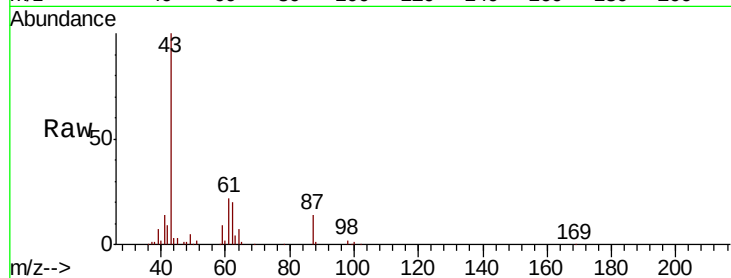
Tot Ion: 43 Resp: 62970

Ion Ratio Lower Upper

43 100

61 29.9 24.6 37.0

87 14.2 11.0 16.6



#44

Trichloroethene

Concen: 38.087 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW006957.D

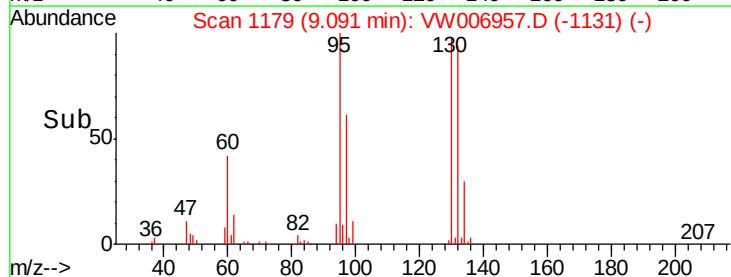
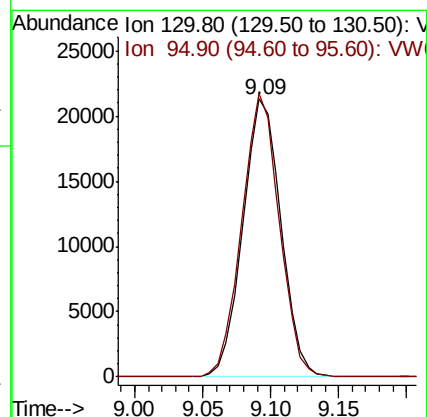
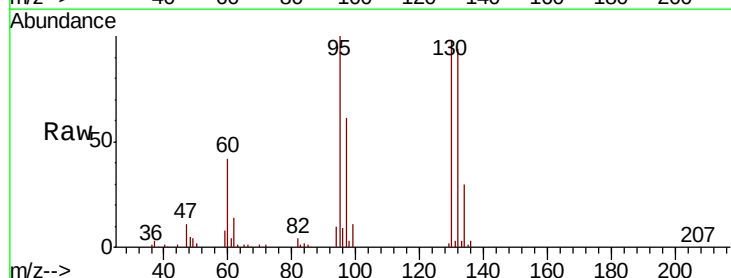
Acq: 19 Nov 2018 21:50

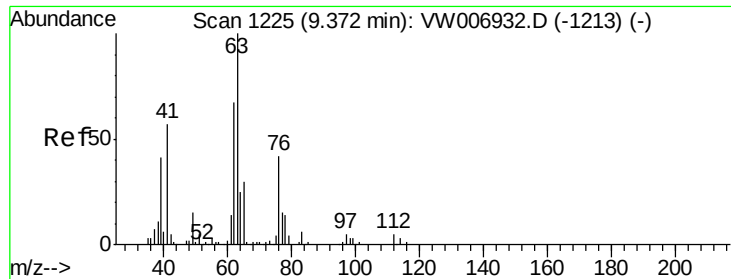
Tgt Ion: 130 Resp: 41731

Ion Ratio Lower Upper

130 100

95 101.9 0.0 196.4

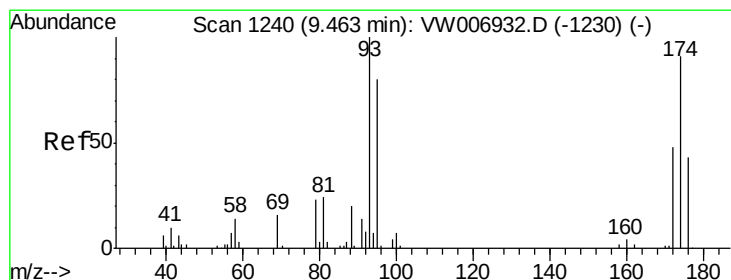
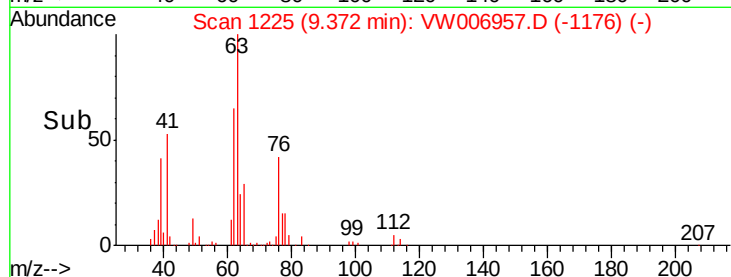
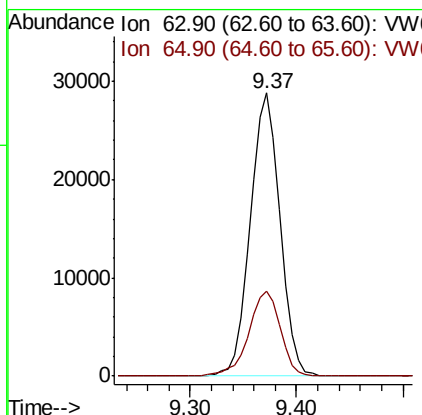
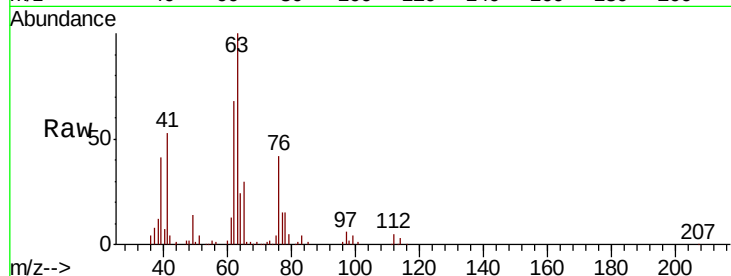




#45  
 1,2-Dichloropropane  
 Concen: 54.813 ug/l  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

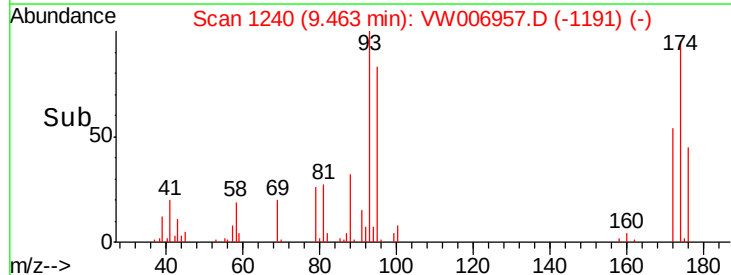
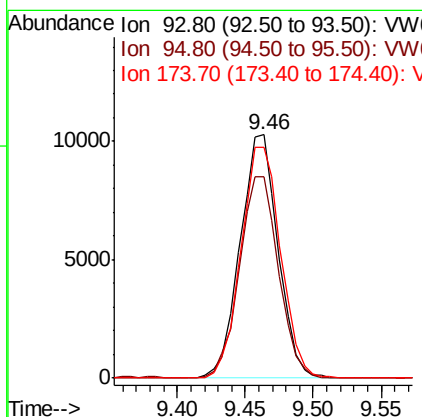
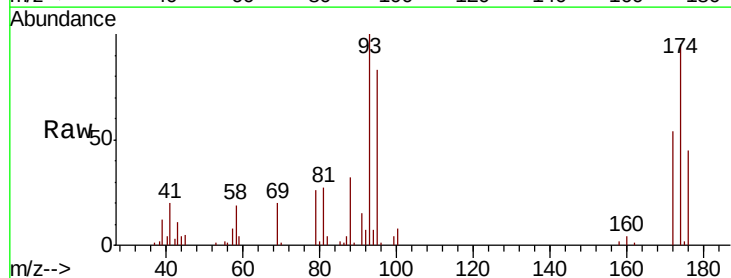
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

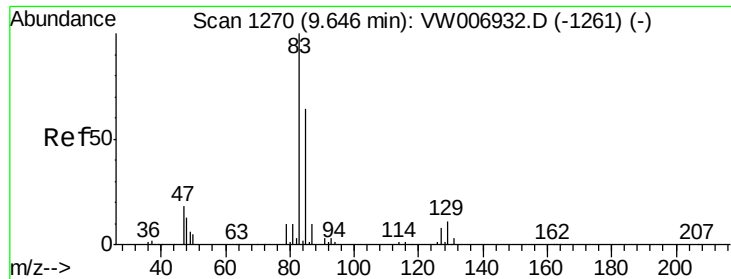
Tot Ion: 63 Resp: 56421  
 Ion Ratio Lower Upper  
 63 100  
 65 29.8 23.9 35.9



#46  
 Dibromomethane  
 Concen: 38.359 ug/l  
 RT: 9.46 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 93 Resp: 19996  
 Ion Ratio Lower Upper  
 93 100  
 95 85.4 65.7 98.5  
 174 99.6 75.0 112.4

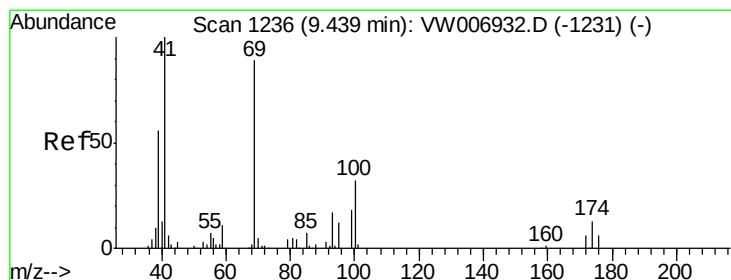
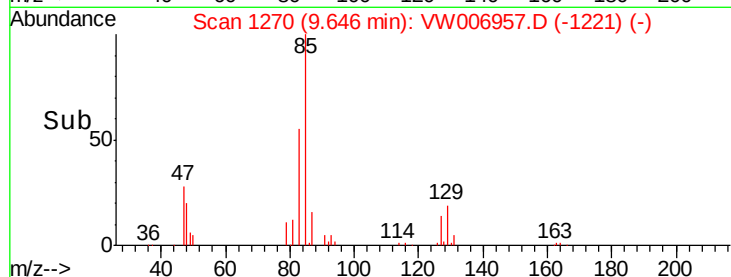
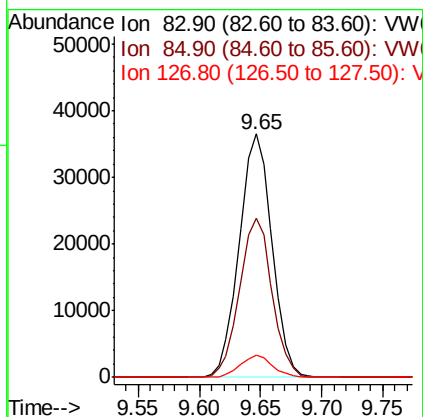
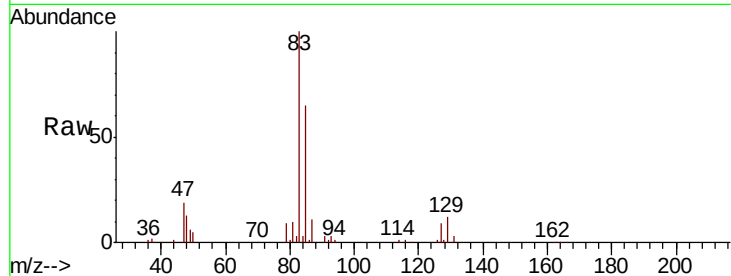




#47  
Bromodichloromethane  
Concen: 49.525 ug/l  
RT: 9.65 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

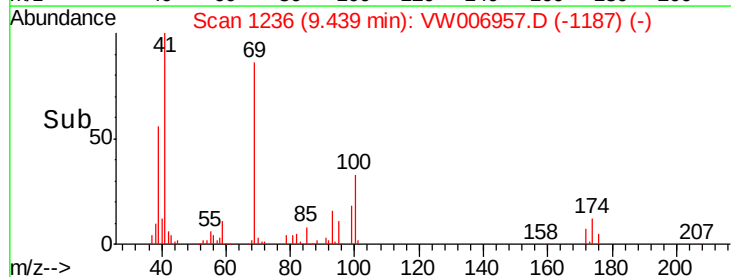
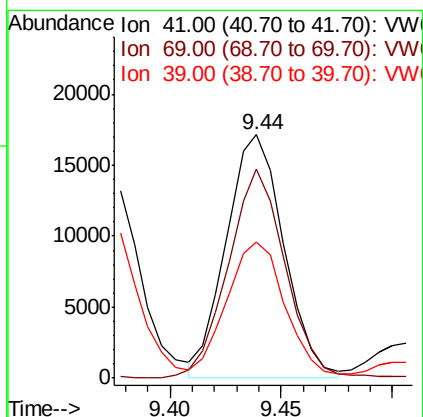
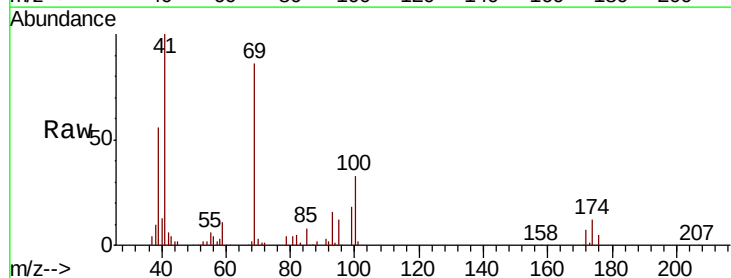
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

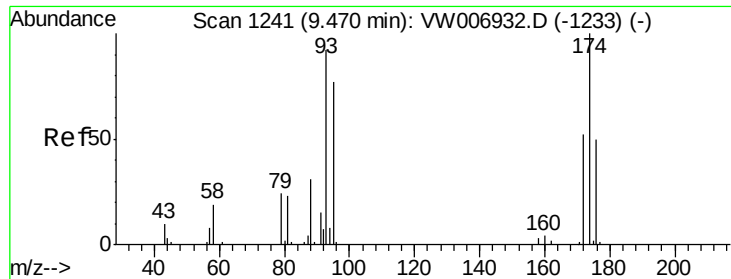
| Tot Ion   | 83   | Resp  | 67980 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 65.3 | 50.8  | 76.2  |
| 127       | 9.2  | 6.6   | 10.0  |



#48  
Methyl methacrylate  
Concen: 54.462 ug/l  
RT: 9.44 min Scan# 1236  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

| Tgt Ion   | 41   | Resp  | 30914 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 69        | 85.7 | 73.4  | 110.0 |
| 39        | 57.1 | 46.1  | 69.1  |





#49

1,4-Dioxane

Concen: 1169.099 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

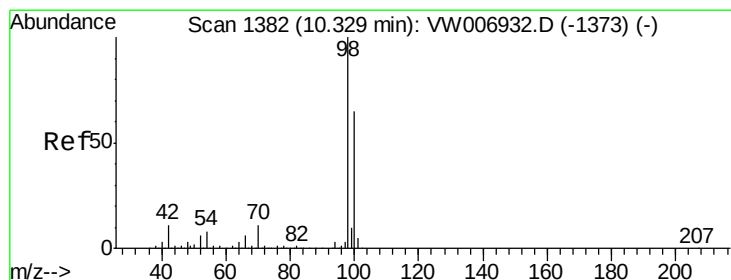
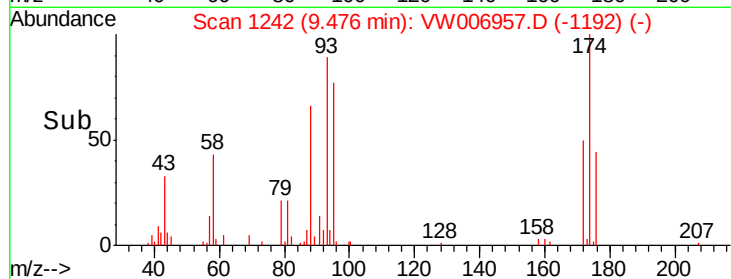
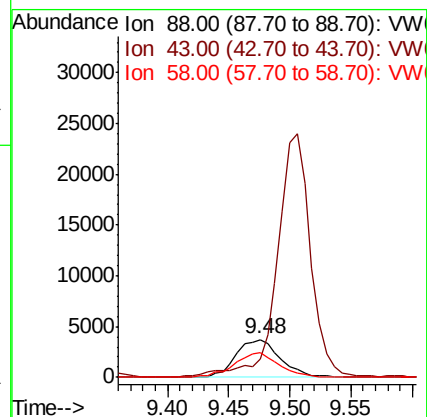
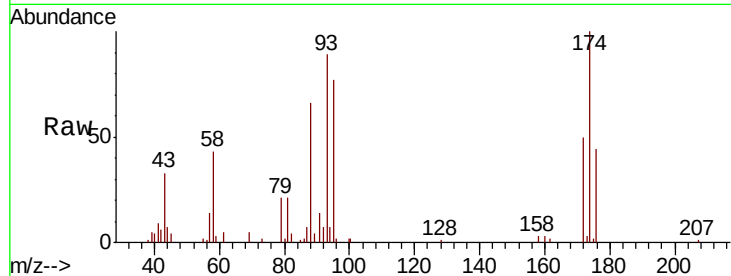
Tot Ion: 88 Resp: 9235

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 67.9 57.4 86.2



#50

Toluene-d8

Concen: 49.105 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW006957.D

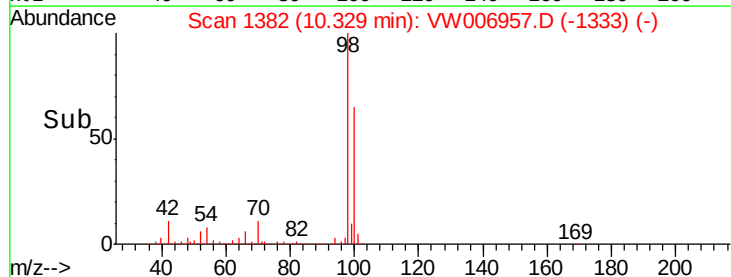
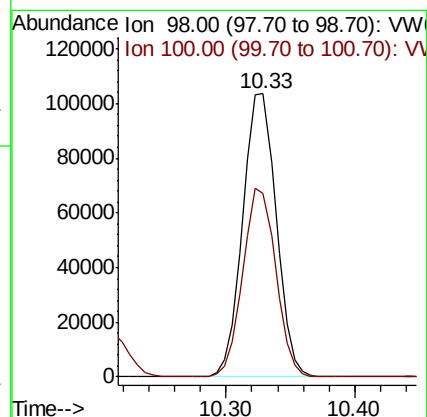
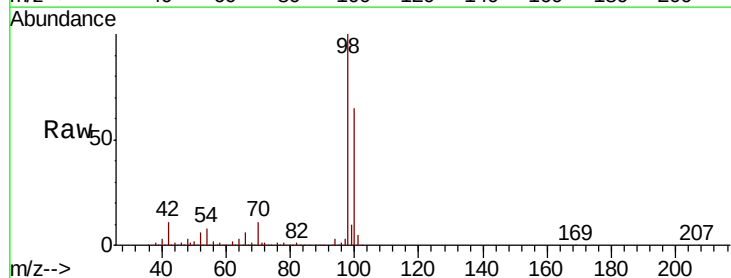
Acq: 19 Nov 2018 21:50

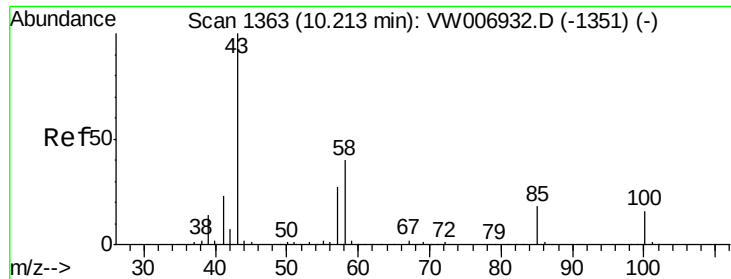
Tgt Ion: 98 Resp: 187007

Ion Ratio Lower Upper

98 100

100 65.5 52.3 78.5

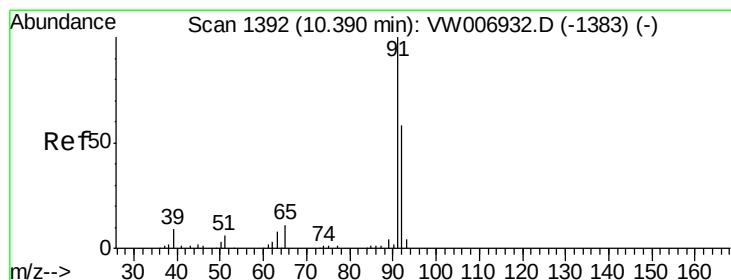
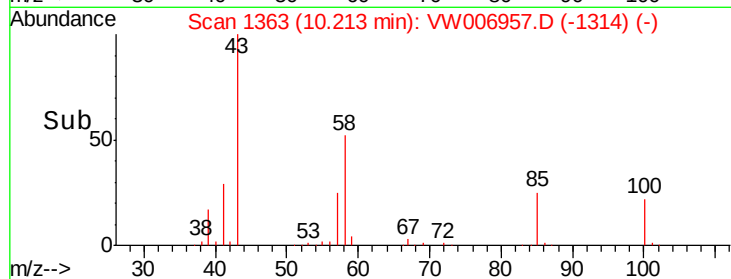
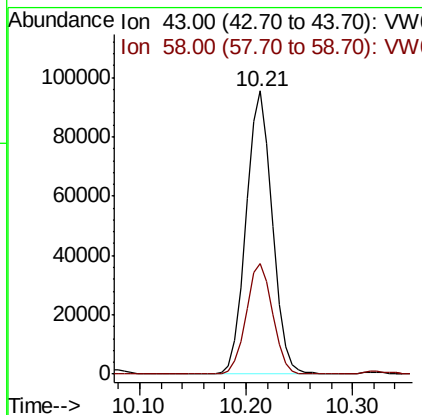
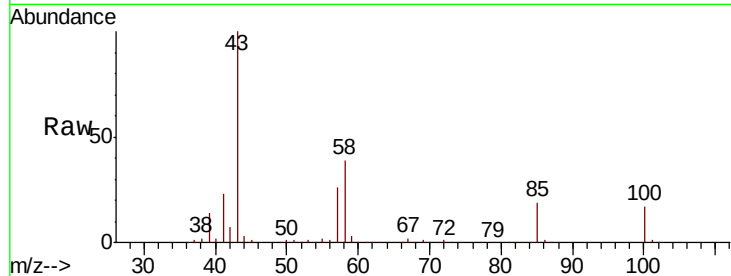




#51  
4-Methyl-2-Pentanone  
Concen: 285.396 ug/l  
RT: 10.21 min Scan# 1363  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

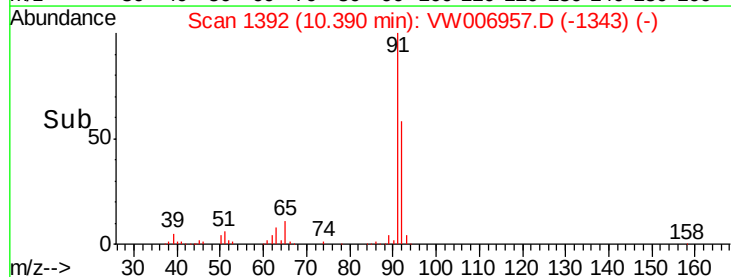
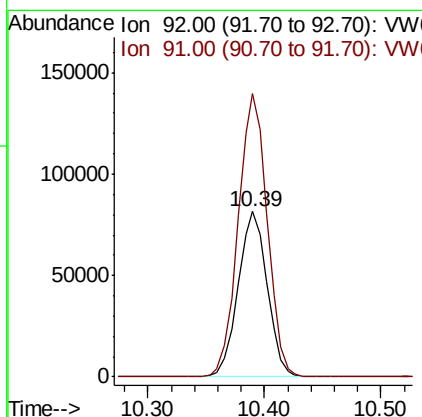
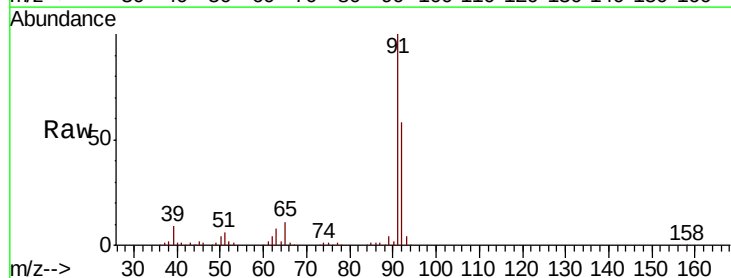
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

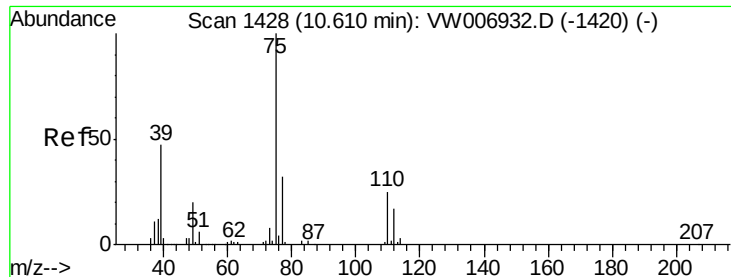
Tot Ion: 43 Resp: 165458  
Ion Ratio Lower Upper  
43 100  
58 39.5 31.0 46.4



#52  
Toluene  
Concen: 51.903 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 92 Resp: 141497  
Ion Ratio Lower Upper  
92 100  
91 171.4 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 30.809 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

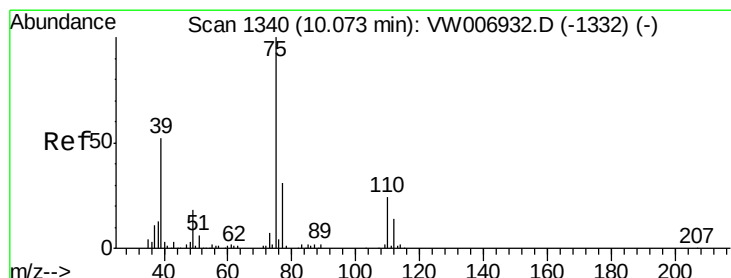
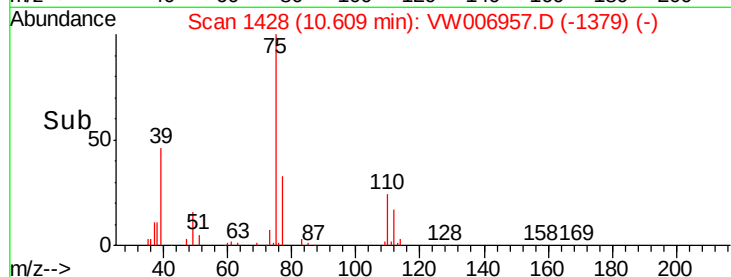
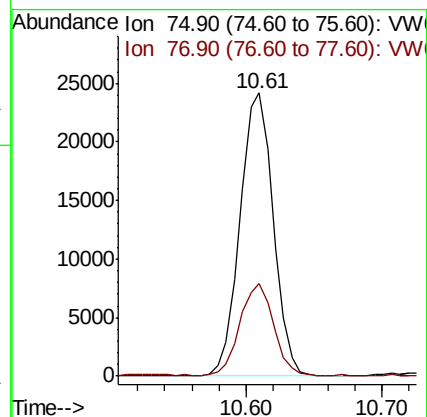
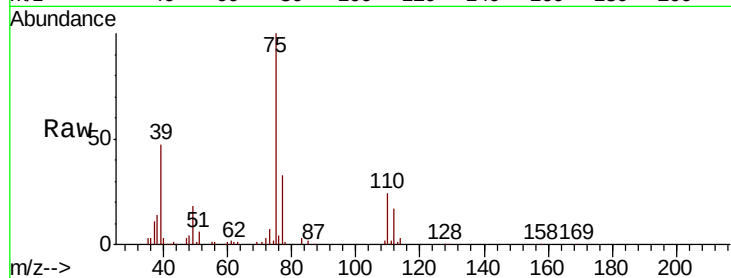
DTW-02(11-13)MSD

Tot Ion: 75 Resp: 41328

Ion Ratio Lower Upper

75 100

77 32.4 25.2 37.8



#54

cis-1,3-Dichloropropene

Concen: 38.168 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

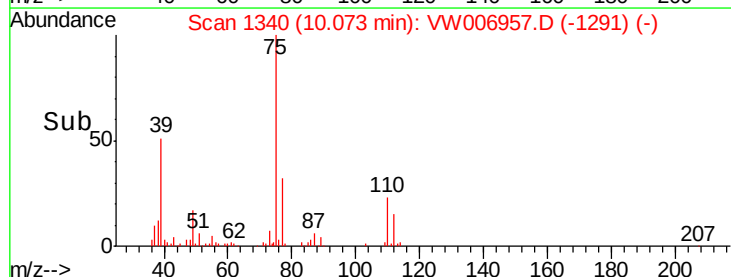
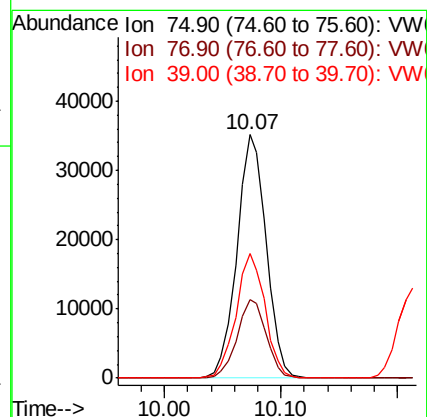
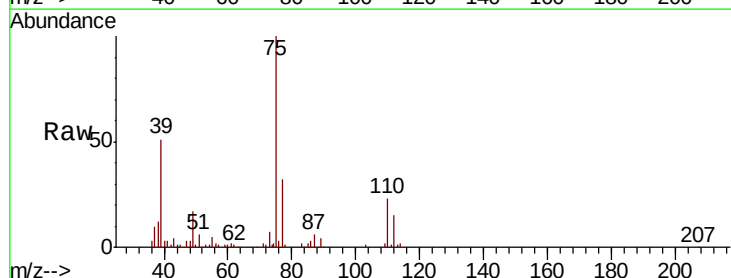
Tgt Ion: 75 Resp: 61271

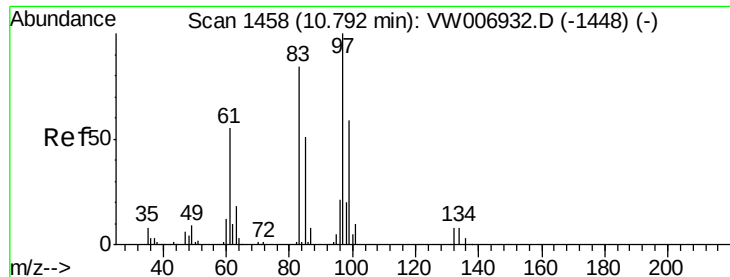
Ion Ratio Lower Upper

75 100

77 32.0 24.6 37.0

39 51.4 41.4 62.2

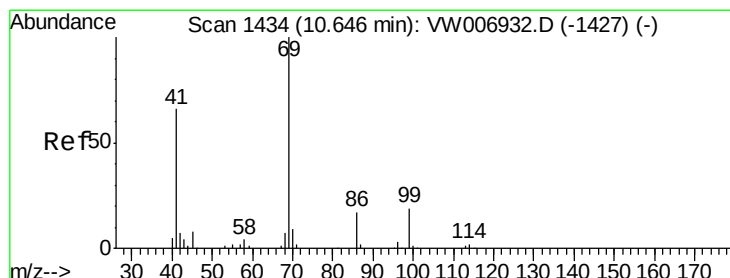
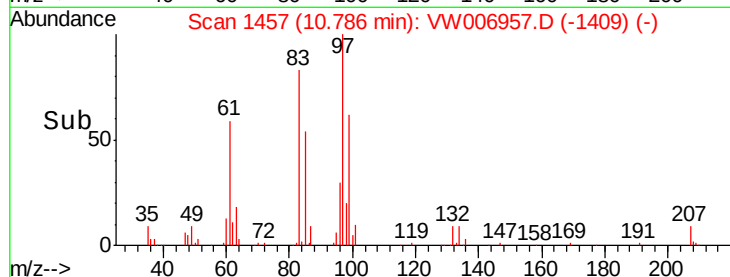
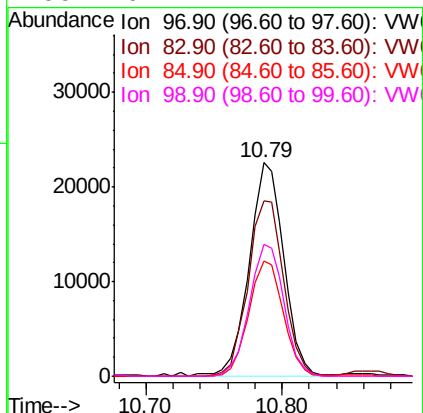
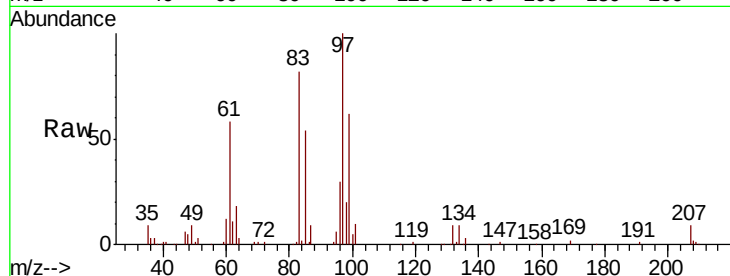




#55  
 1,1,2-Trichloroethane  
 Concen: 52.575 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.01 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

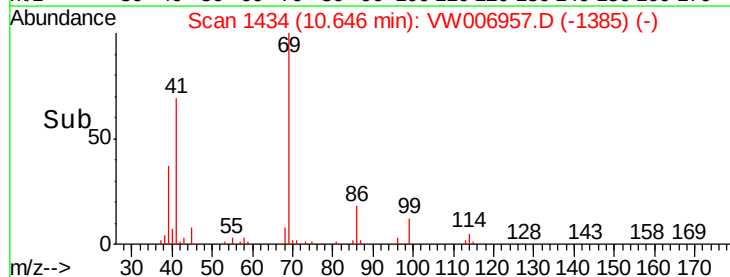
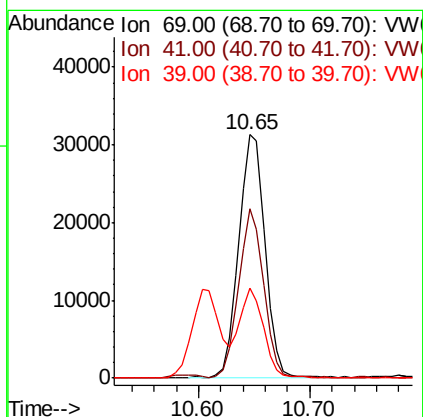
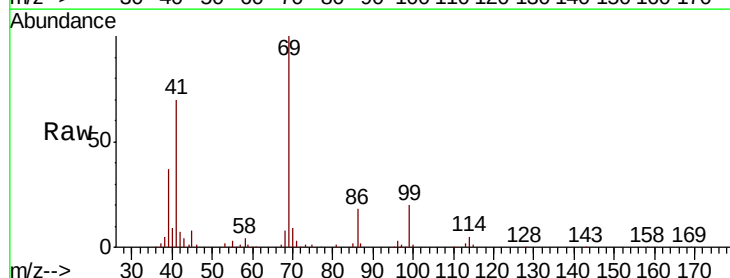
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

| Tot Ion: | 97    | Resp: | 40410 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.2  | 67.5  | 101.3 |
| 85       | 53.9  | 41.0  | 61.6  |
| 99       | 61.7  | 47.4  | 71.2  |

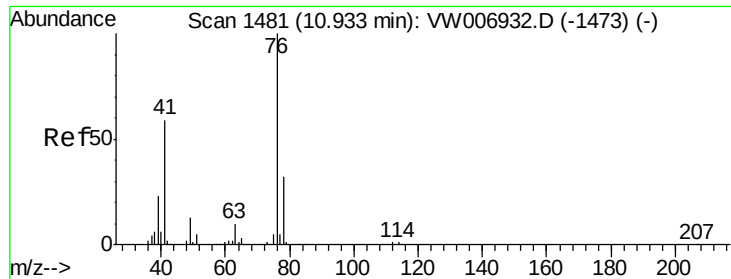


#56  
 Ethyl methacrylate  
 Concen: 53.415 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

| Tgt Ion: | 69    | Resp: | 51044 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 67.0  | 53.8  | 80.6  |
| 39       | 33.9  | 29.0  | 43.6  |



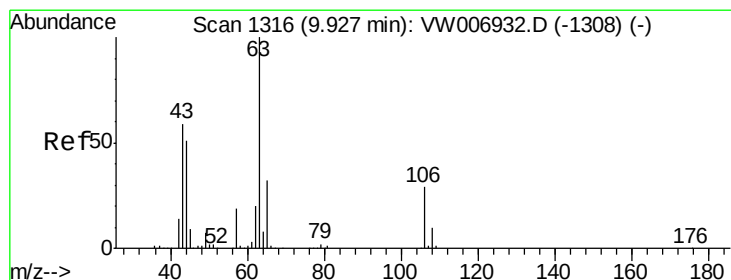
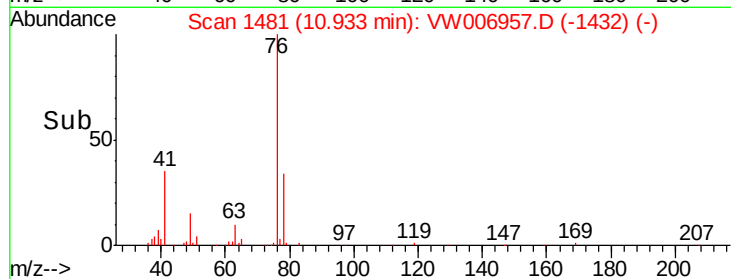
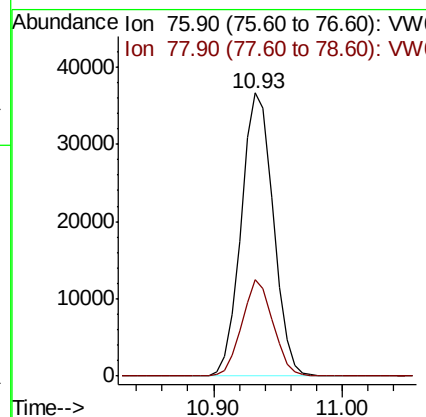
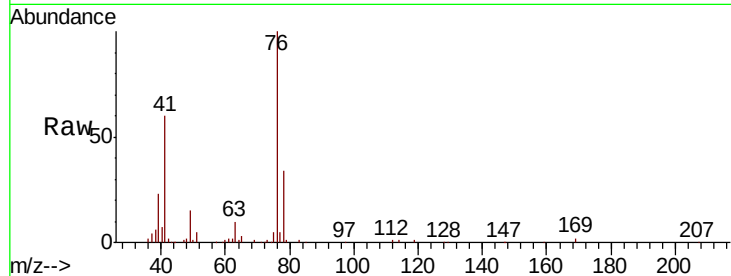




#57  
 1,3-Dichloropropane  
 Concen: 48.180 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

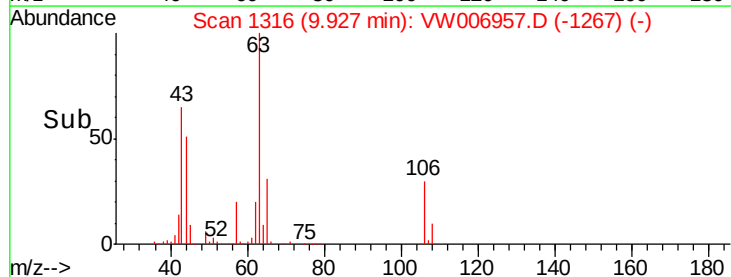
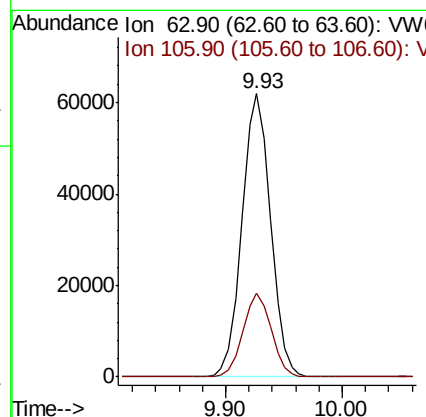
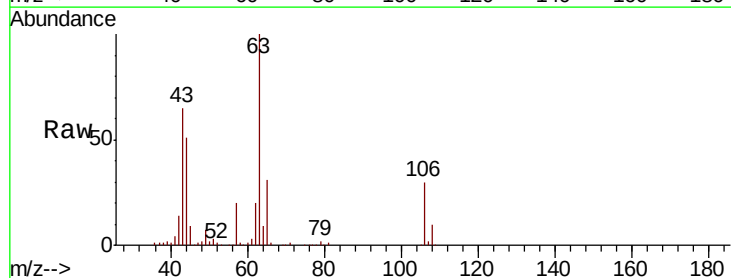
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

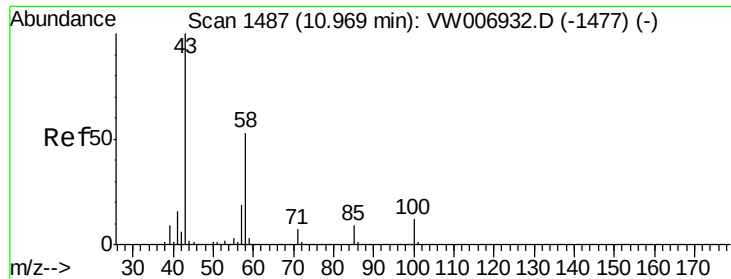
Tot Ion: 76 Resp: 63005  
 Ion Ratio Lower Upper  
 76 100  
 78 32.9 26.0 39.0



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 226.196 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 63 Resp: 106266  
 Ion Ratio Lower Upper  
 63 100  
 106 29.2 22.6 33.8

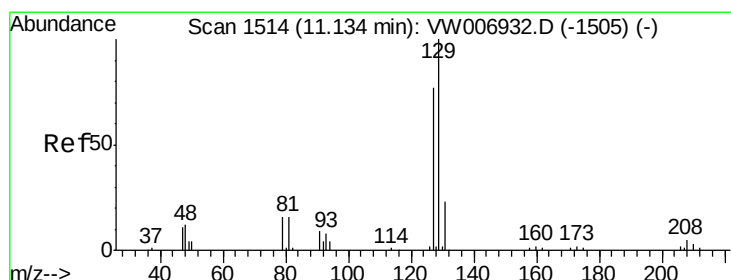
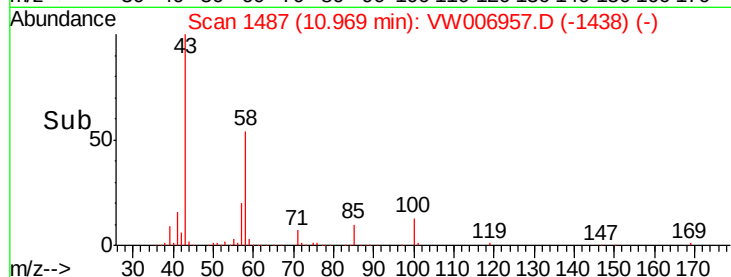
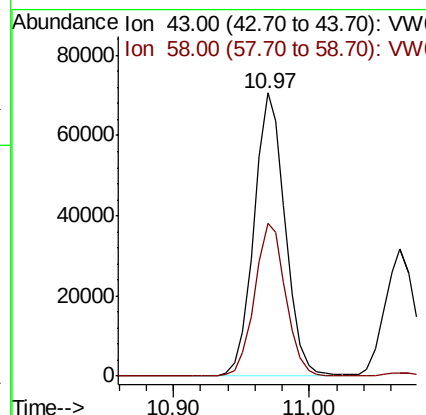
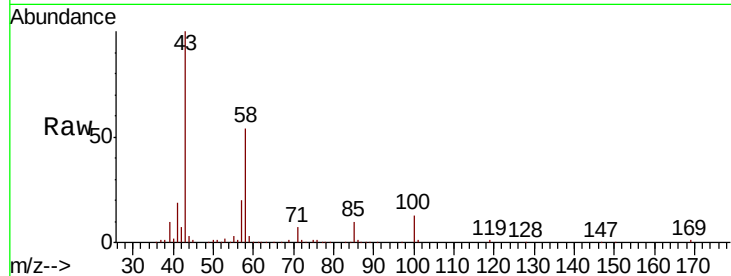




#59  
2-Hexanone  
Concen: 291.520 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

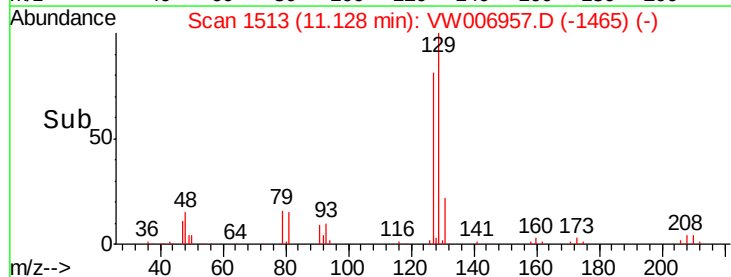
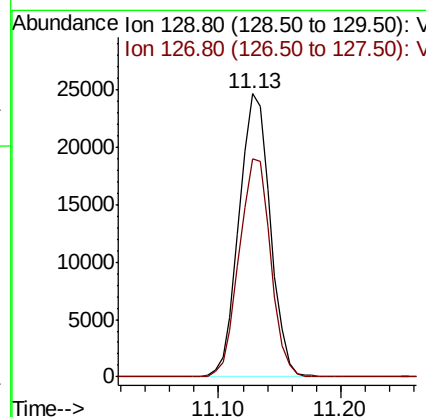
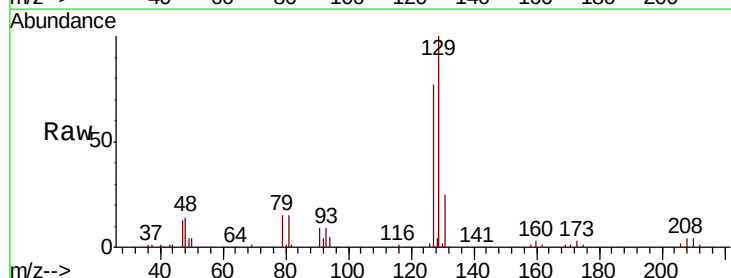
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

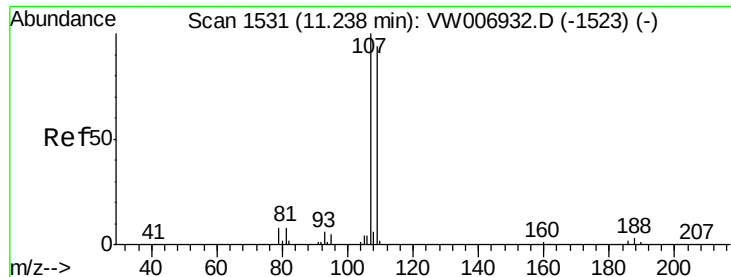
Tot Ion: 43 Resp: 113112  
Ion Ratio Lower Upper  
43 100  
58 54.3 26.8 80.4



#60  
Dibromochloromethane  
Concen: 49.703 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.01 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 129 Resp: 43564  
Ion Ratio Lower Upper  
129 100  
127 77.6 38.1 114.3





#61

1,2-Dibromoethane

Concen: 41.278 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

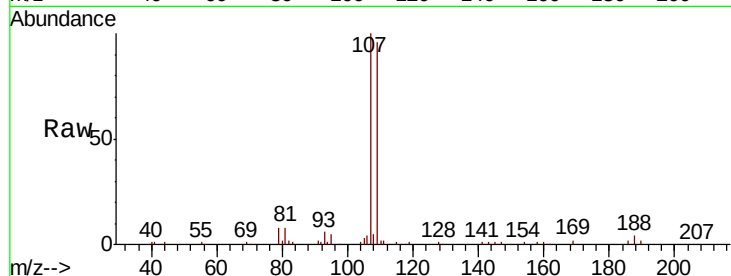
DTW-02(11-13)MSD

Tot Ion:107 Resp: 29487

Ion Ratio Lower Upper

107 100

109 95.8 75.5 113.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

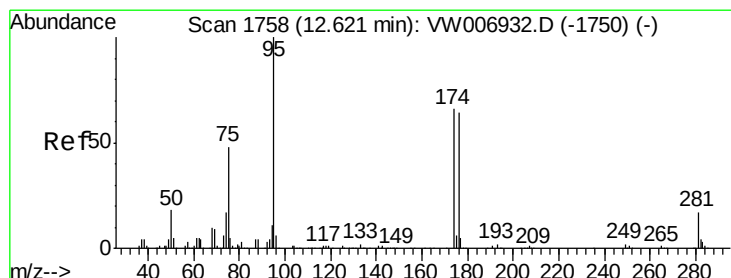
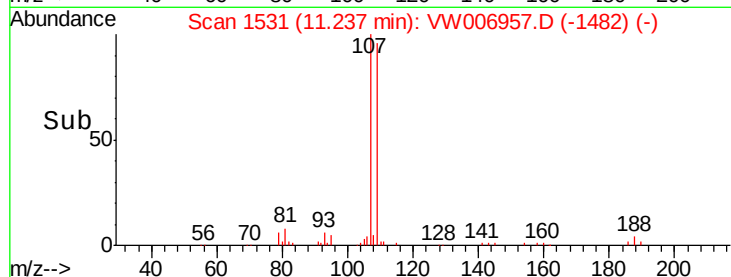
15000

10000

5000

0

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 36.605 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

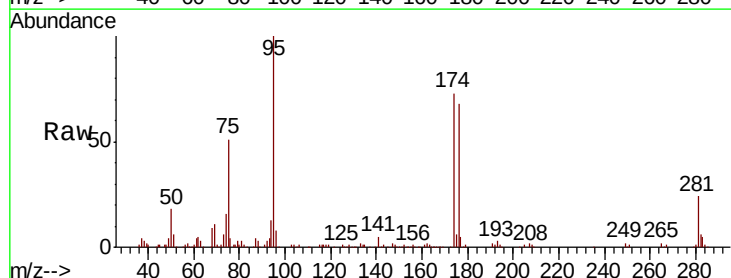
Tgt Ion: 95 Resp: 54357

Ion Ratio Lower Upper

95 100

174 74.8 0.0 138.4

176 69.5 0.0 133.4



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

12.62

40000

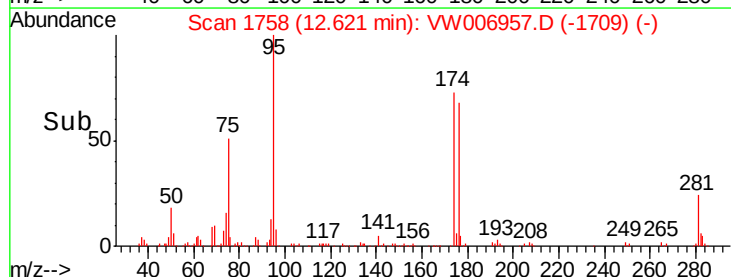
30000

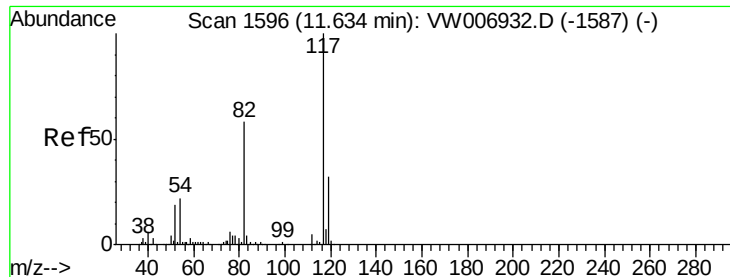
20000

10000

0

Time--> 12.55 12.60 12.65 12.70

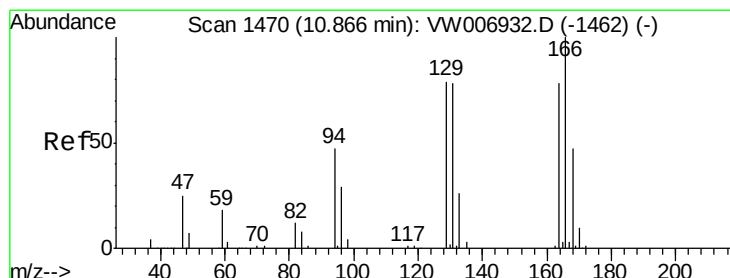
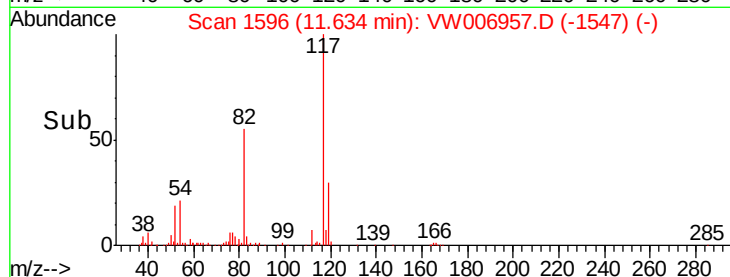
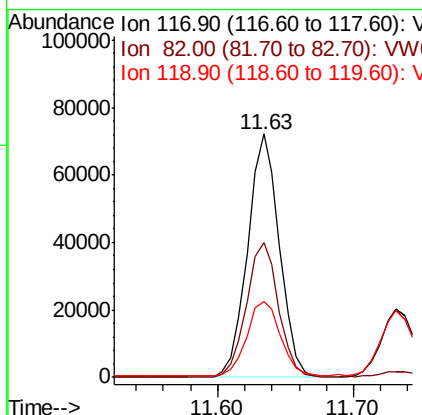
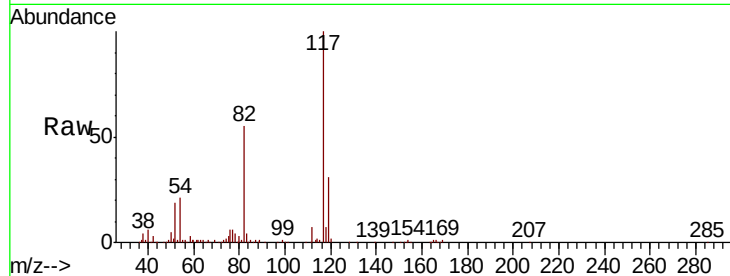




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

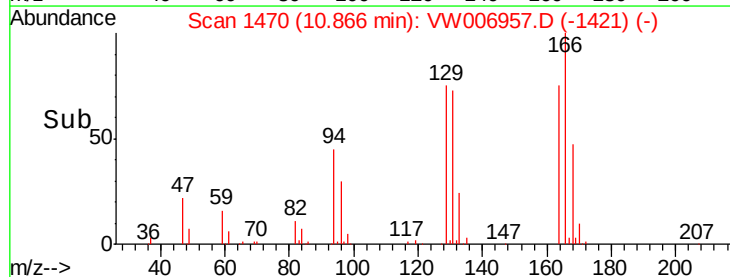
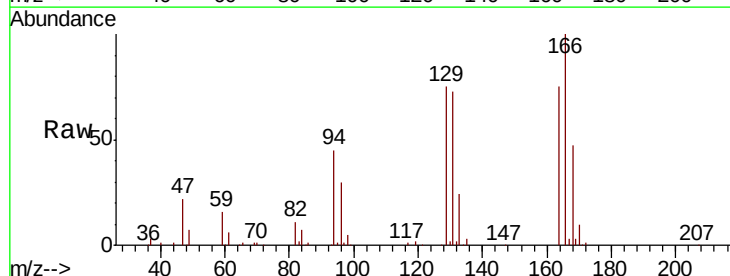
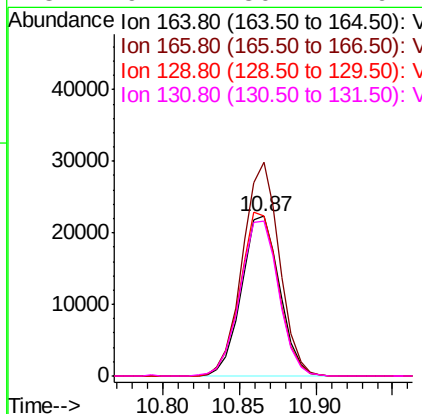
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

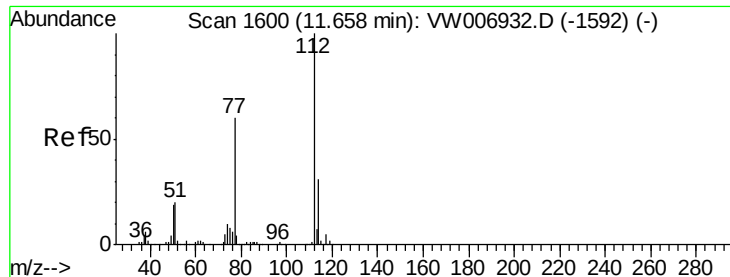
Tot Ion:117 Resp: 117491  
Ion Ratio Lower Upper  
117 100  
82 55.2 46.2 69.2  
119 30.4 25.5 38.3



#64  
Tetrachloroethene  
Concen: 51.150 ug/l  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion:164 Resp: 38686  
Ion Ratio Lower Upper  
164 100  
166 133.6 102.6 154.0  
129 100.4 81.0 121.4  
131 97.1 80.2 120.2

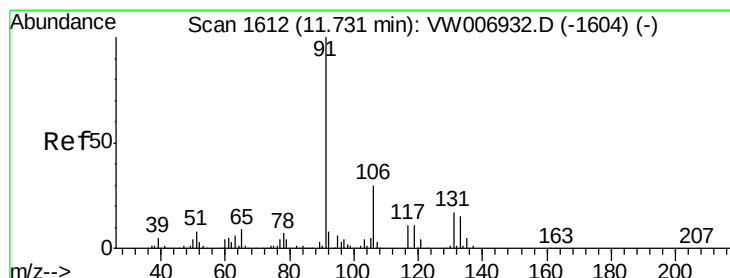
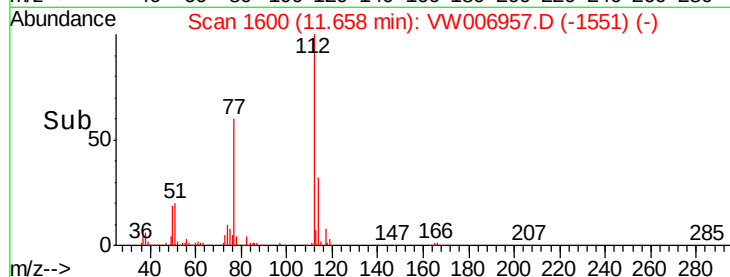
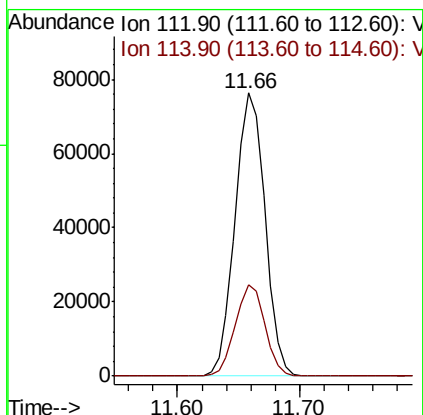
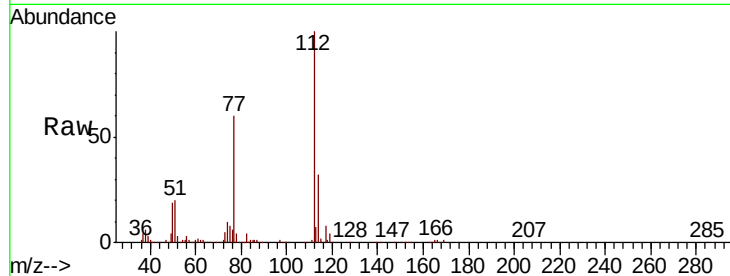




#65  
Chlorobenzene  
Concen: 52.195 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

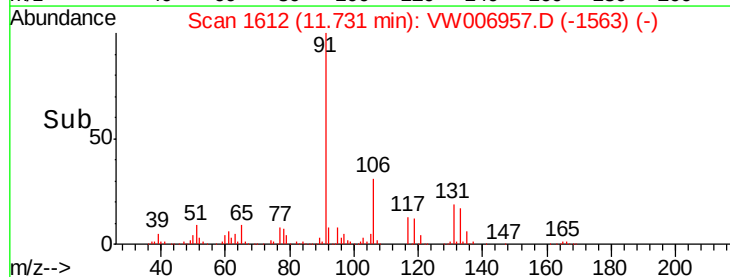
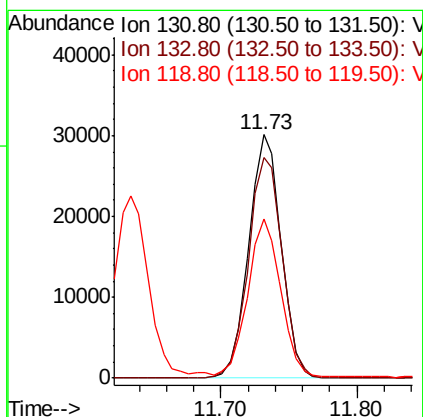
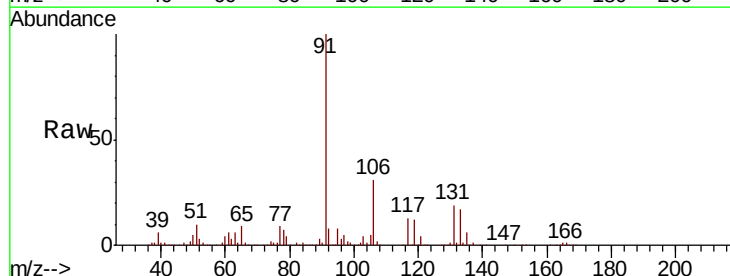
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

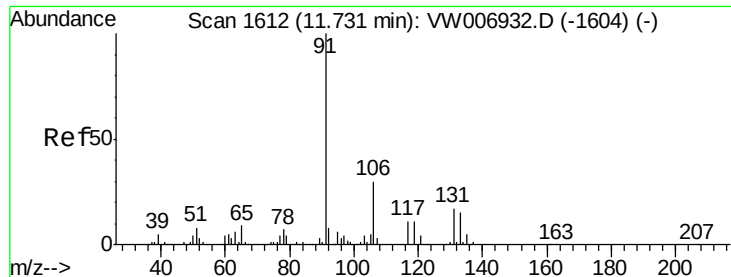
Tot Ion:112 Resp: 129488  
Ion Ratio Lower Upper  
112 100  
114 32.1 24.6 37.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 63.602 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion:131 Resp: 50283  
Ion Ratio Lower Upper  
131 100  
133 94.5 47.2 141.6  
119 66.1 32.5 97.4

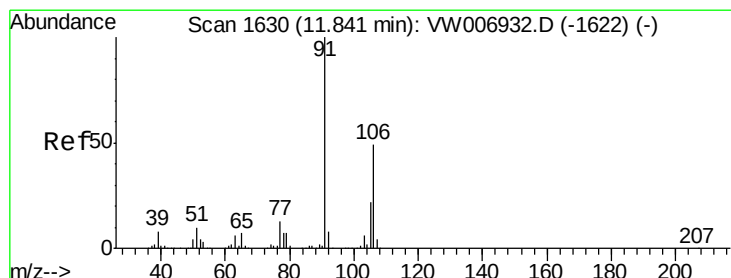
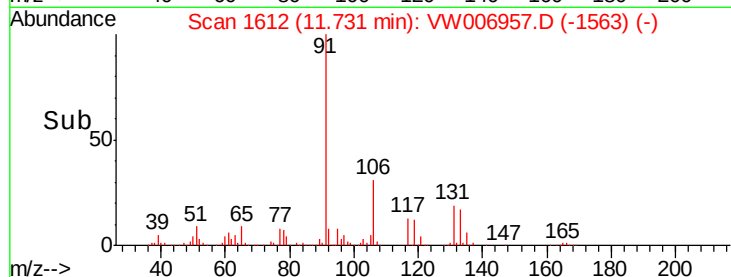
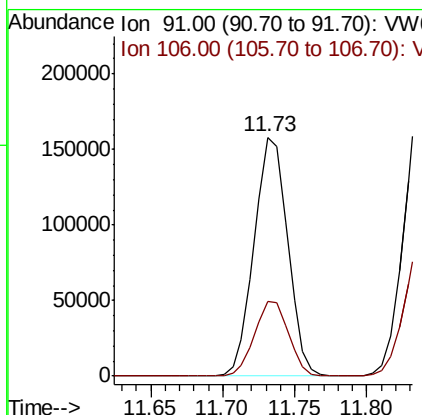
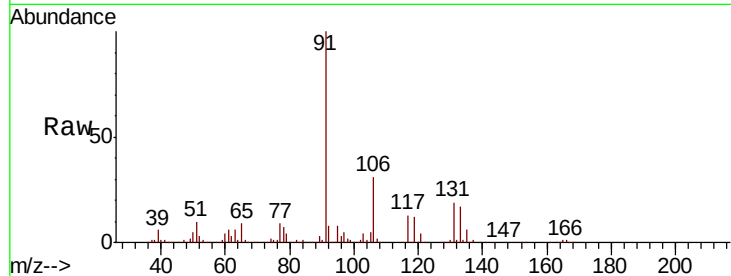




#67  
Ethyl Benzene  
Concen: 57.125 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

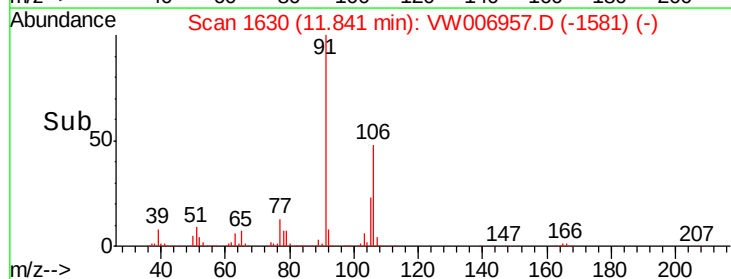
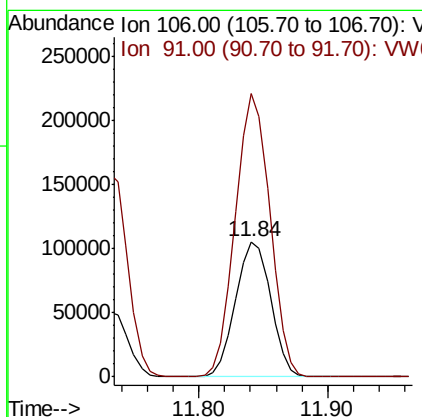
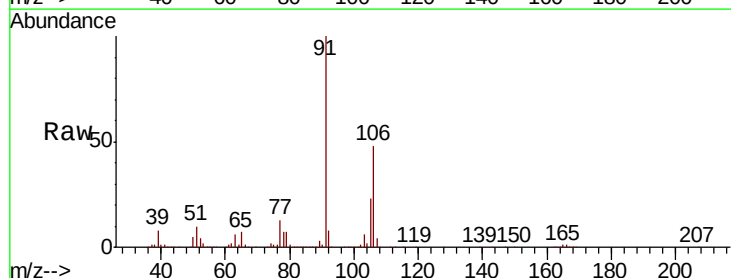
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

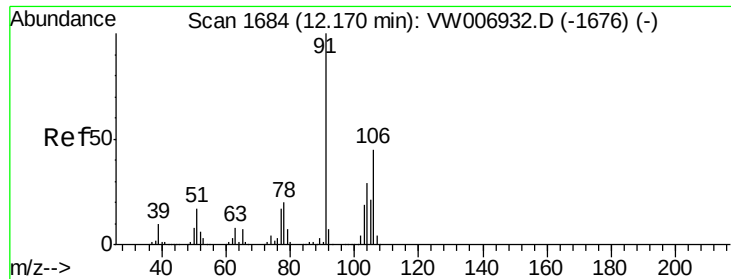
Tot Ion: 91 Resp: 255507  
Ion Ratio Lower Upper  
91 100  
106 31.2 24.0 36.0



#68  
m/p-Xylenes  
Concen: 114.994 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 106 Resp: 200292  
Ion Ratio Lower Upper  
106 100  
91 206.0 165.0 247.4

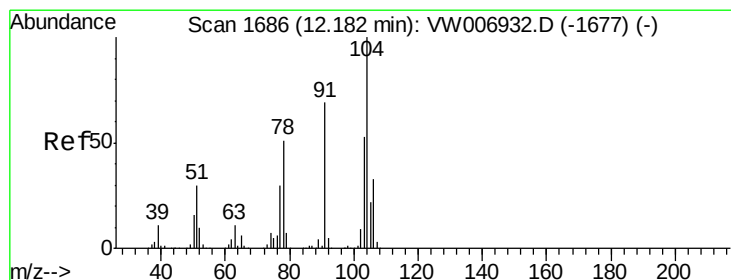
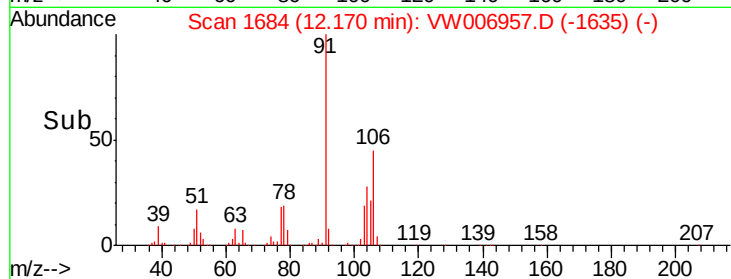
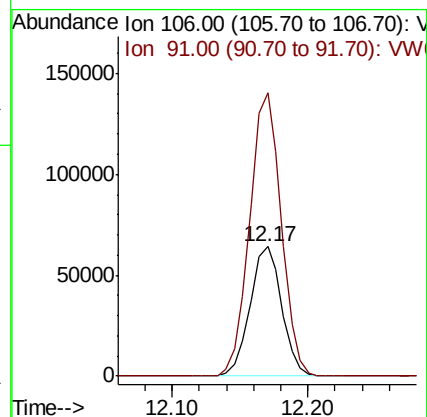
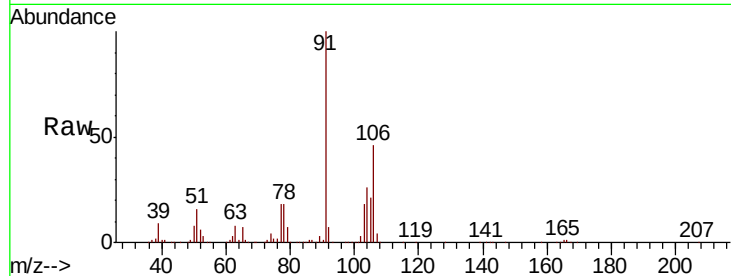




#69  
o-Xylene  
Concen: 63.445 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

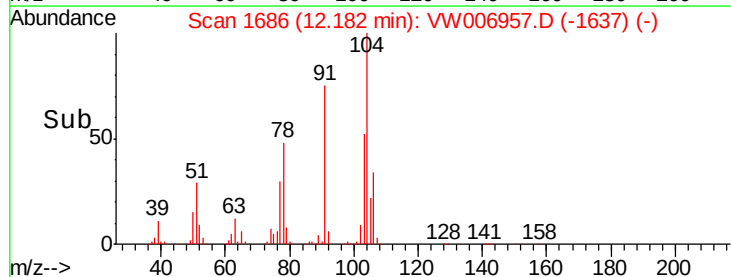
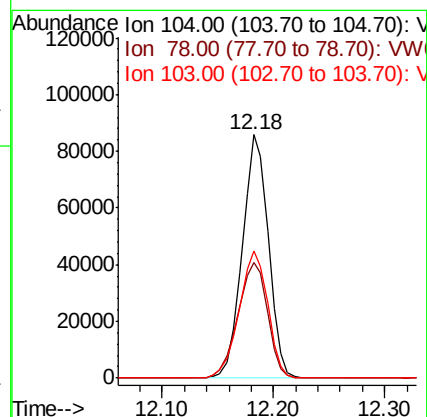
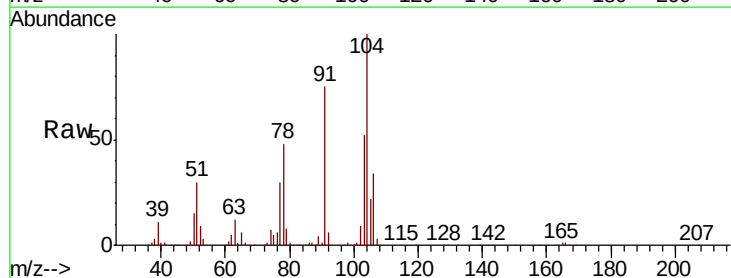
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

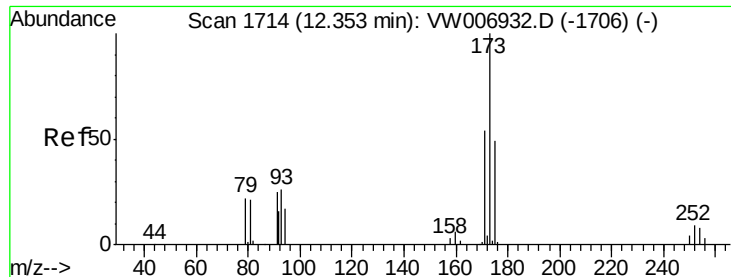
Tot Ion:106 Resp: 104881  
Ion Ratio Lower Upper  
106 100  
91 217.8 109.2 327.6



#70  
Styrene  
Concen: 52.161 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion:104 Resp: 138667  
Ion Ratio Lower Upper  
104 100  
78 54.0 42.5 63.7  
103 57.4 44.3 66.5





#71

Bromoform

Concen: 60.580 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

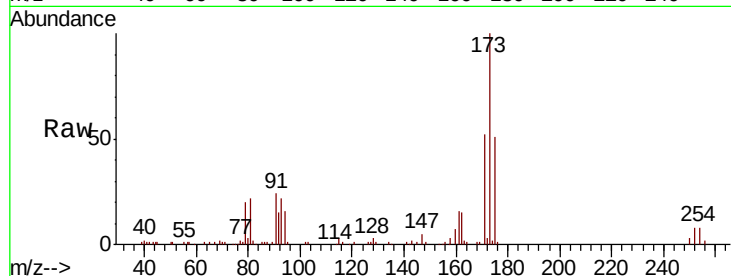
Tot Ion:173 Resp: 22328

Ion Ratio Lower Upper

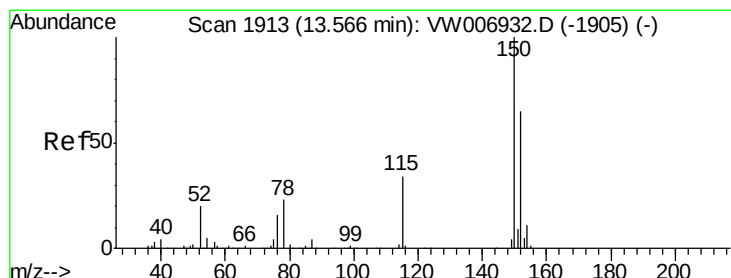
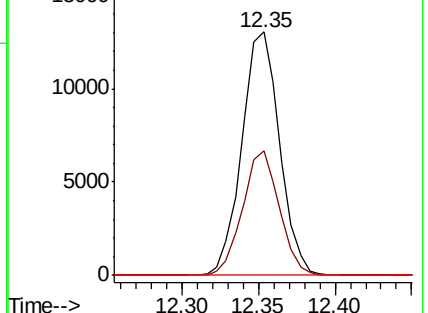
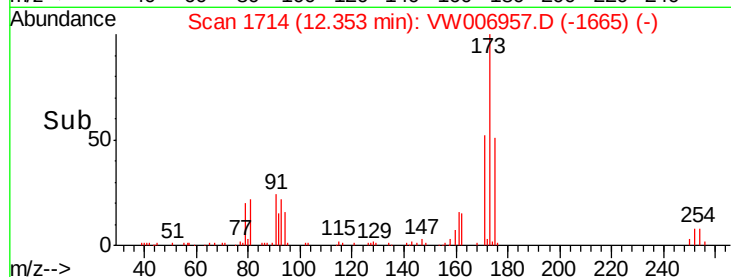
173 100

175 49.5 24.0 72.0

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.01 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

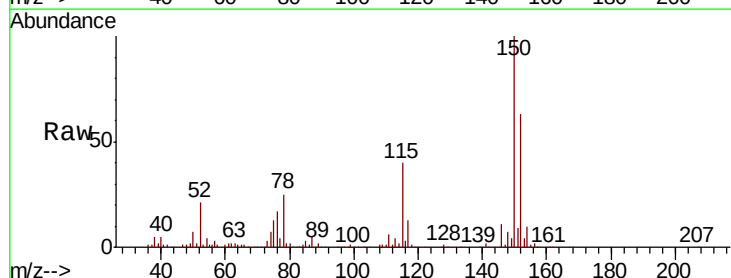
Tgt Ion:152 Resp: 39125

Ion Ratio Lower Upper

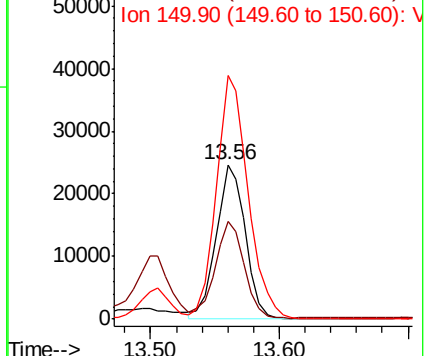
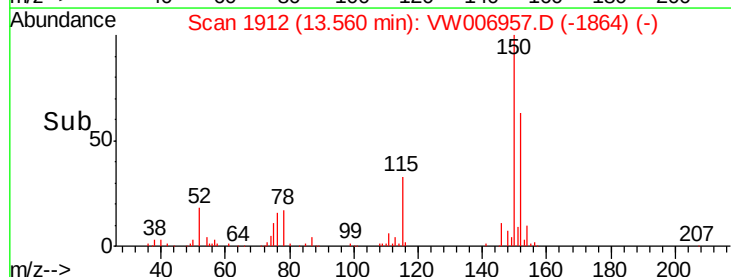
152 100

115 62.8 31.6 94.7

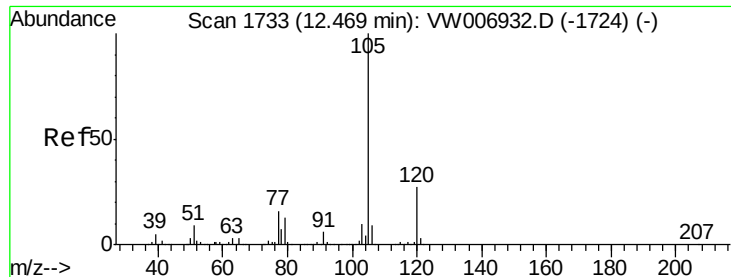
150 171.7 0.0 350.0



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







#73

Isopropylbenzene

Concen: 78.015 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

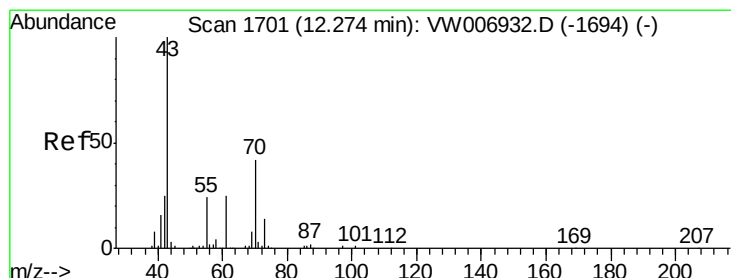
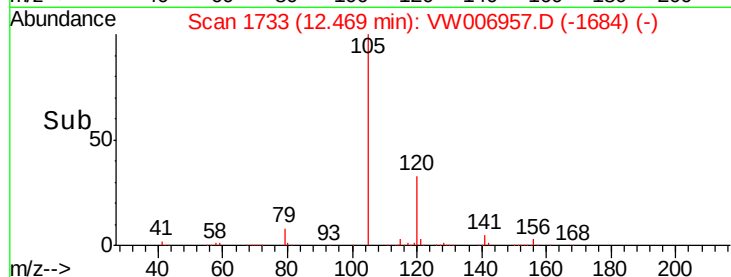
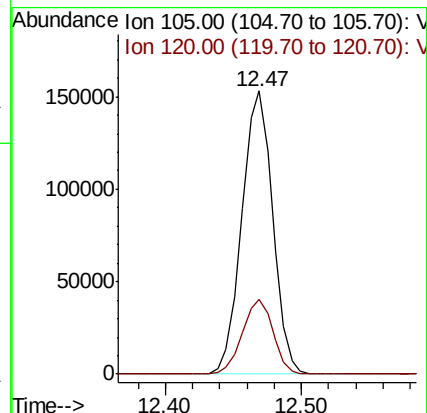
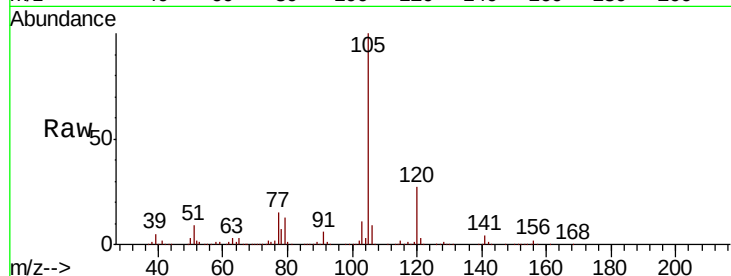
DTW-02(11-13)MSD

Tot Ion:105 Resp: 241730

Ion Ratio Lower Upper

105 100

120 26.3 13.2 39.6



#74

N-ethyl acetate

Concen: 85.482 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Tgt Ion: 43 Resp: 53009

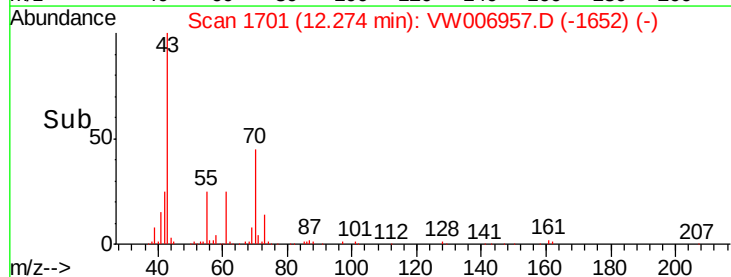
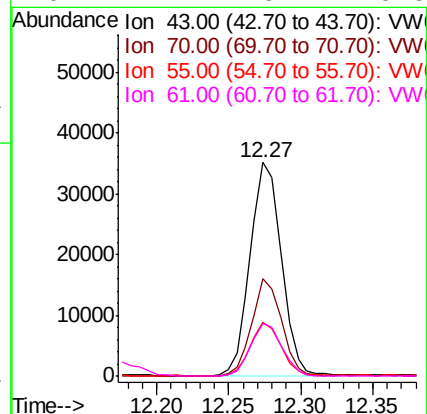
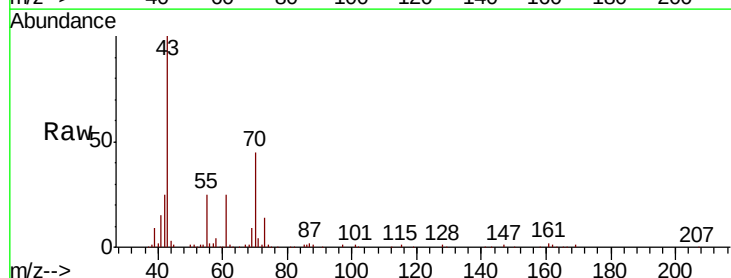
Ion Ratio Lower Upper

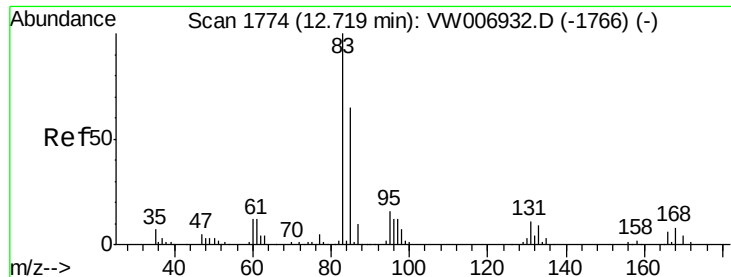
43 100

70 43.1 34.2 51.4

55 24.7 19.5 29.3

61 24.4 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 93.114 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

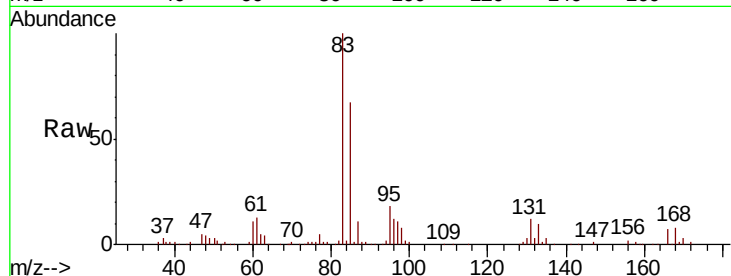
Tot Ion: 83 Resp: 42439

Ion Ratio Lower Upper

83 100

131 11.4 5.6 16.8

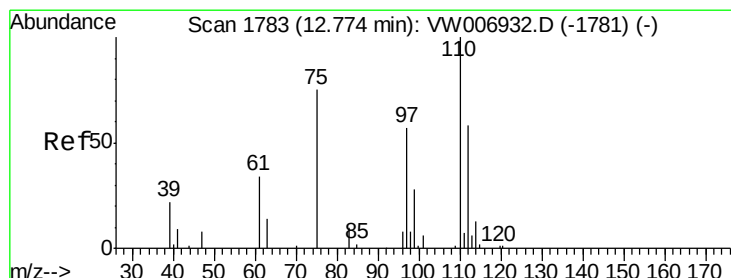
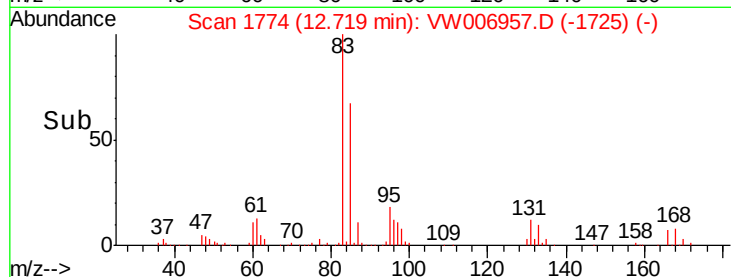
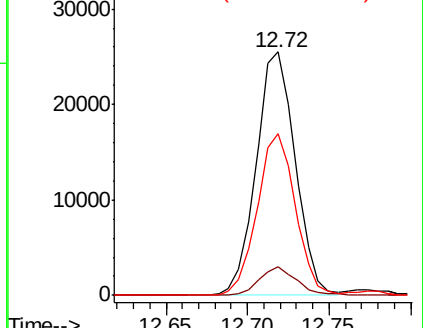
85 64.9 32.5 97.5



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 156.967 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW006957.D

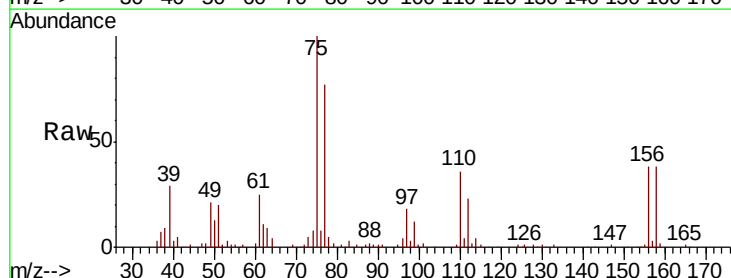
Acq: 19 Nov 2018 21:50

Tgt Ion: 75 Resp: 49353

Ion Ratio Lower Upper

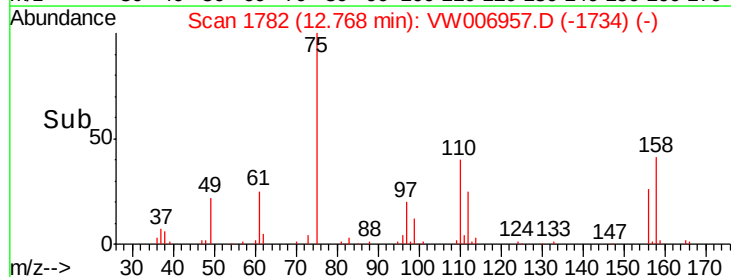
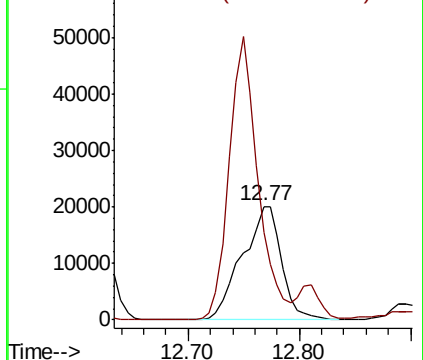
75 100

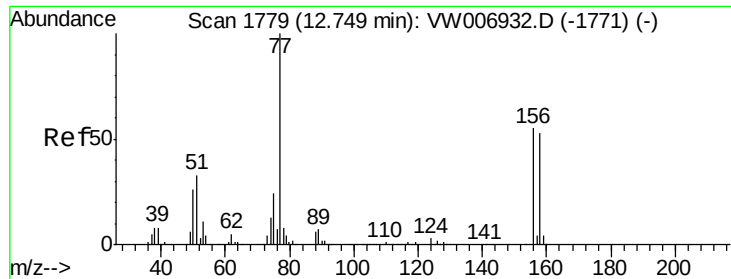
77 183.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

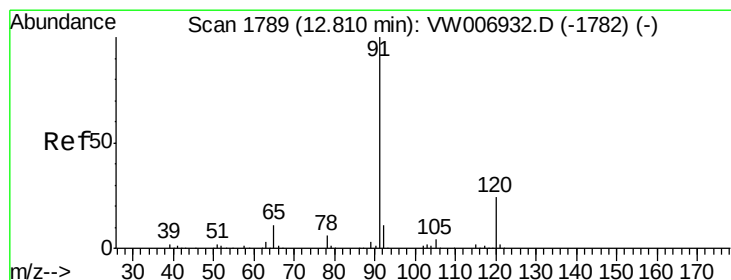
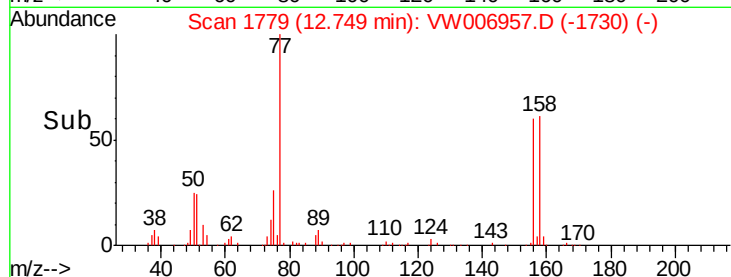
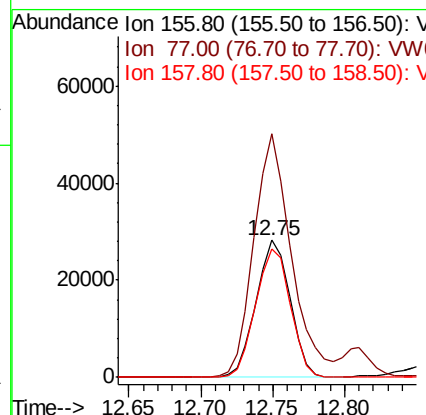
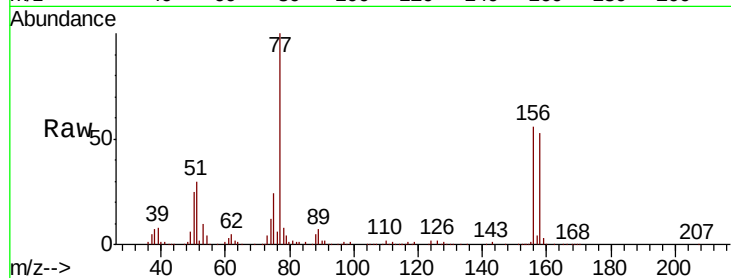




#77  
Bromobenzene  
Concen: 70.208 ug/l  
RT: 12.75 min Scan# 1779  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

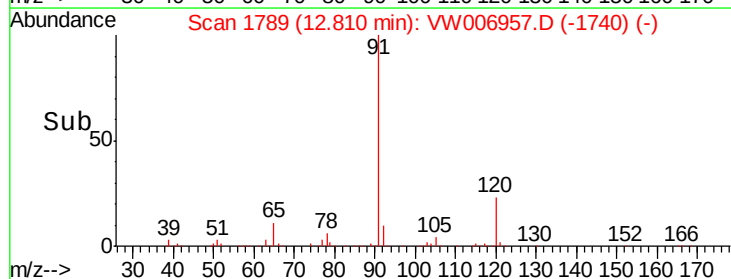
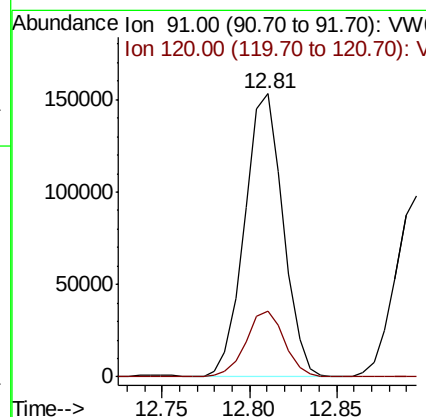
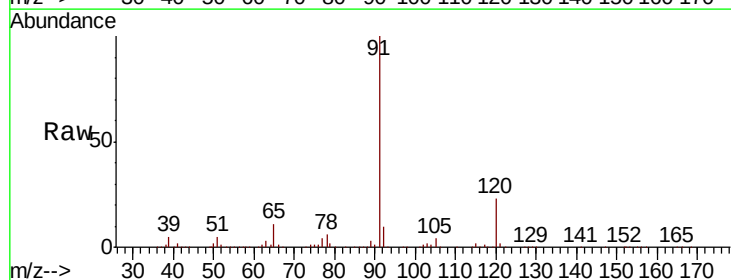
Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

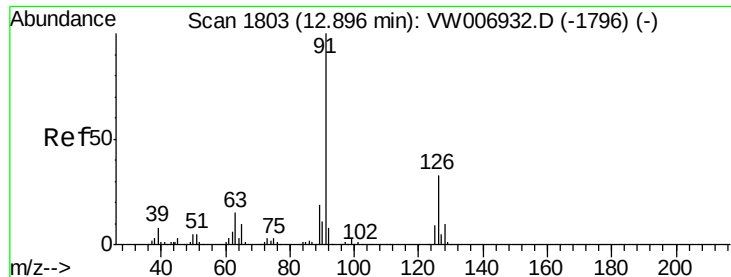
Tot Ion:156 Resp: 46106  
Ion Ratio Lower Upper  
156 100  
77 196.1 97.8 293.3  
158 95.2 47.9 143.7



#78  
n-propylbenzene  
Concen: 62.929 ug/l  
RT: 12.81 min Scan# 1789  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion: 91 Resp: 234298  
Ion Ratio Lower Upper  
91 100  
120 23.2 11.5 34.5





#79

2-Chlorotoluene

Concen: 72.215 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

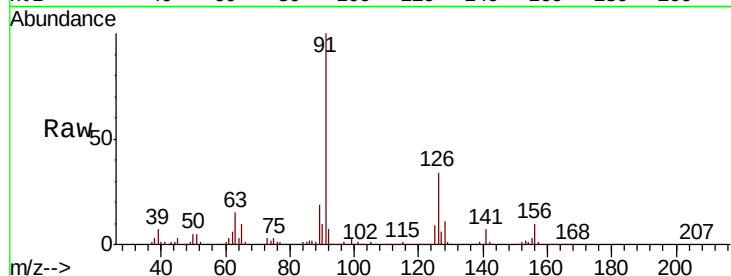
DTW-02(11-13)MSD

Tot Ion: 91 Resp: 157570

Ion Ratio Lower Upper

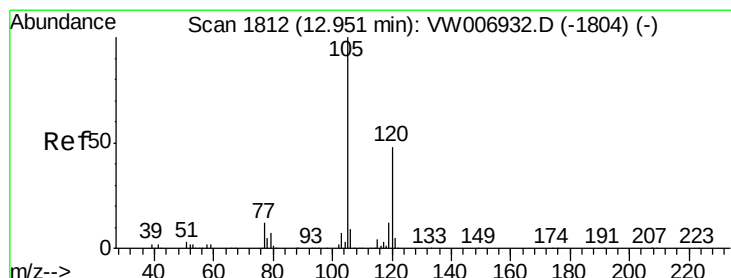
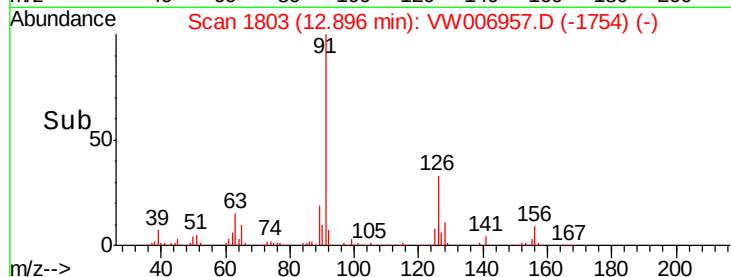
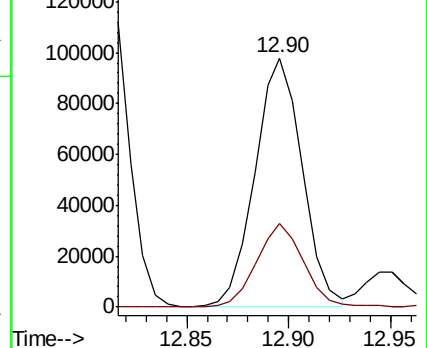
91 100

126 33.5 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 73.918 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.01 min

Lab File: VW006957.D

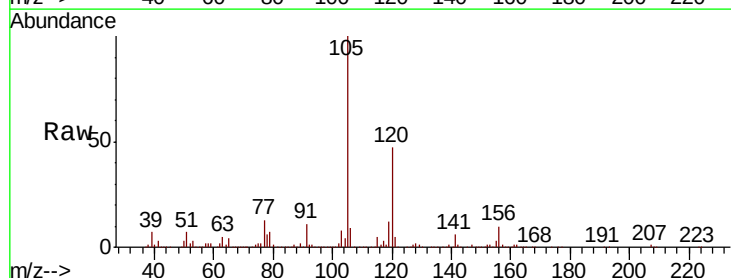
Acq: 19 Nov 2018 21:50

Tgt Ion:105 Resp: 197215

Ion Ratio Lower Upper

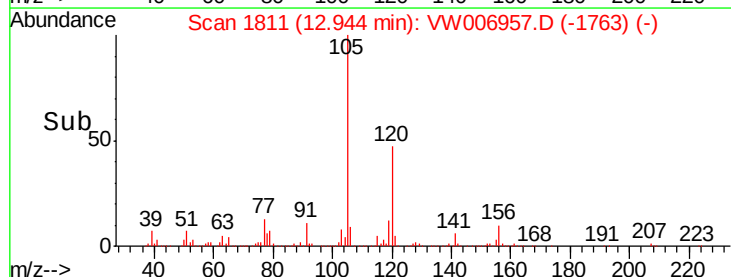
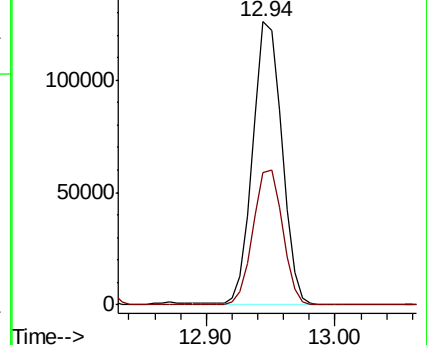
105 100

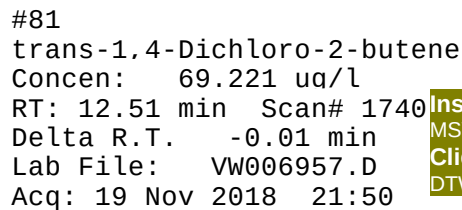
120 48.3 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

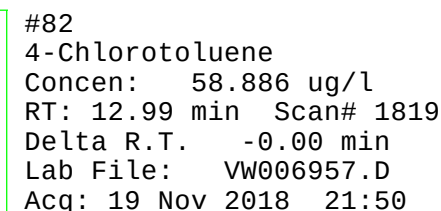
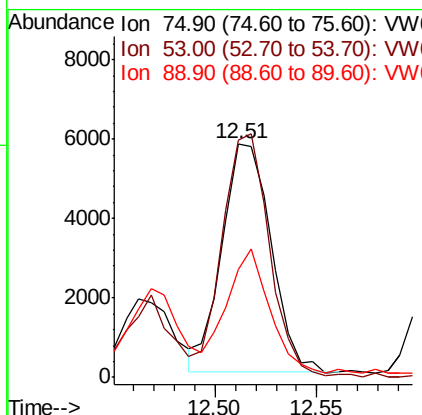
Ion 120.00 (119.70 to 120.70): V



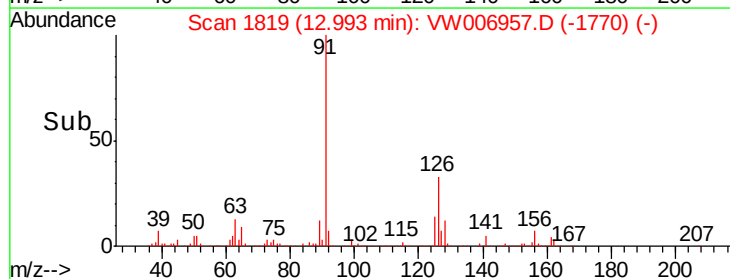
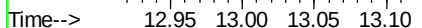
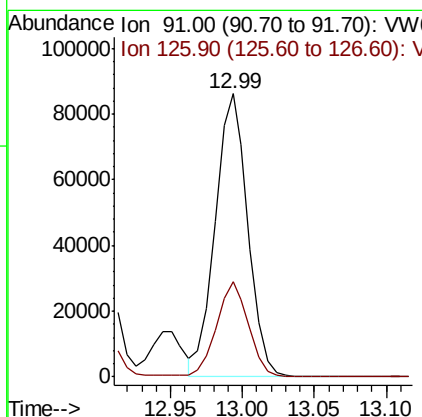


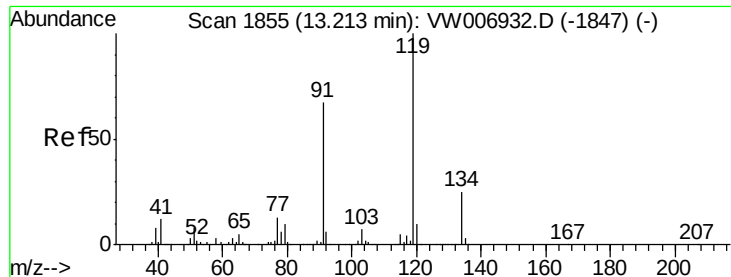
**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
DTW-02(11-13)MSD

|     |         |       |       |
|-----|---------|-------|-------|
| Tot | Ion: 75 | Resp: | 9561  |
| Ion | Ratio   | Lower | Upper |
| 75  | 100     |       |       |
| 53  | 101.3   | 79.3  | 118.9 |
| 89  | 48.3    | 39.5  | 59.3  |



|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 91 | Resp: | 135468 |
| Ion | Ratio   | Lower | Upper  |
| 91  | 100     |       |        |
| 126 | 33.3    | 16.2  | 48.6   |

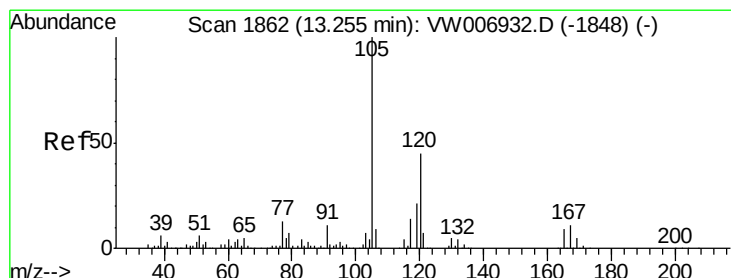
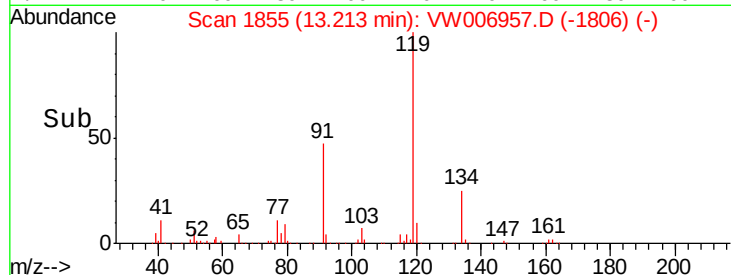
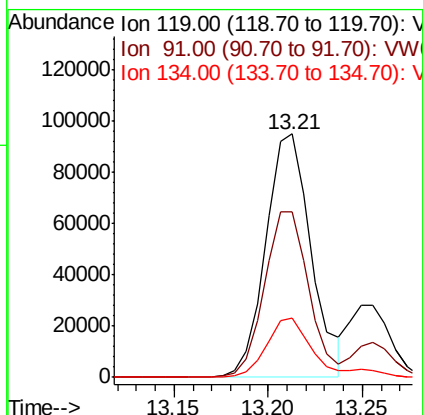
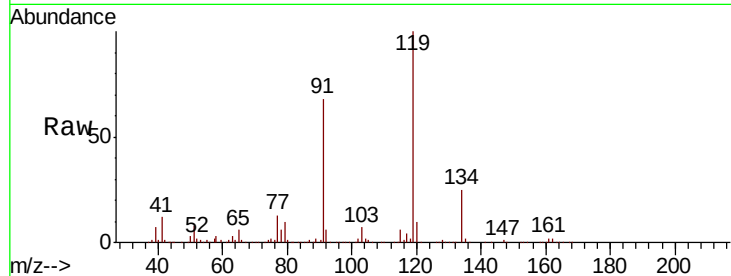




#83  
 tert-Butylbenzene  
 Concen: 69.882 ug/l  
 RT: 13.21 min Scan# 1855  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

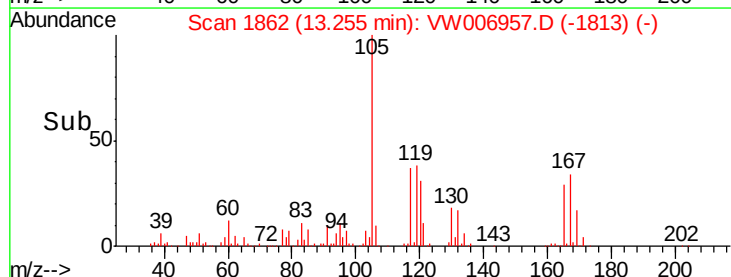
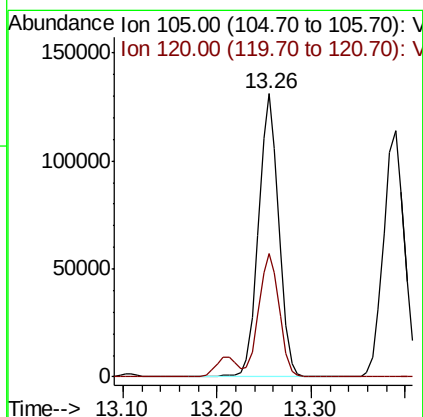
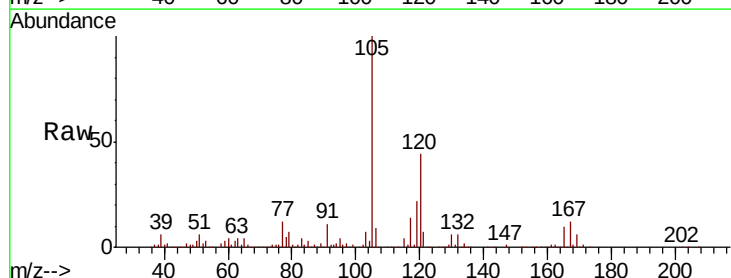
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

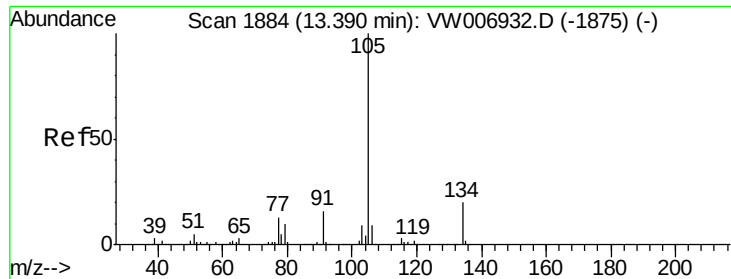
Tot Ion:119 Resp: 158334  
 Ion Ratio Lower Upper  
 119 100  
 91 66.6 33.8 101.4  
 134 24.0 12.6 37.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 74.340 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion:105 Resp: 199256  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 21.9 65.8





#85

sec-Butylbenzene

Concen: 54.110 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

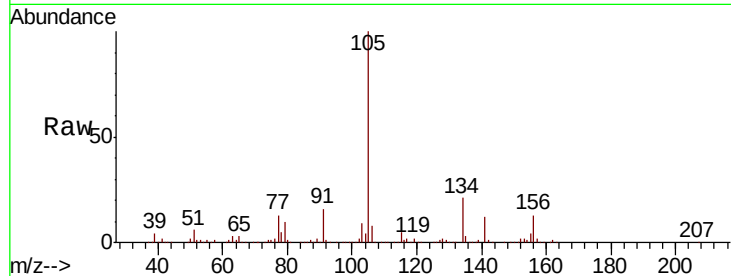
DTW-02(11-13)MSD

Tot Ion:105 Resp: 174930

Ion Ratio Lower Upper

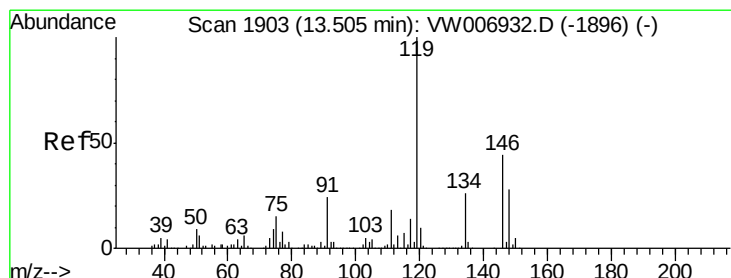
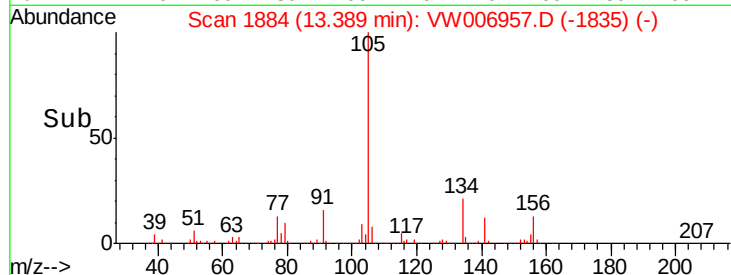
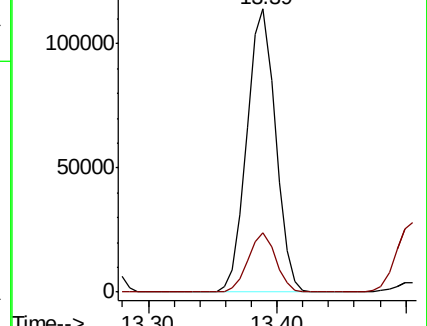
105 100

134 20.2 9.8 29.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 56.606 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

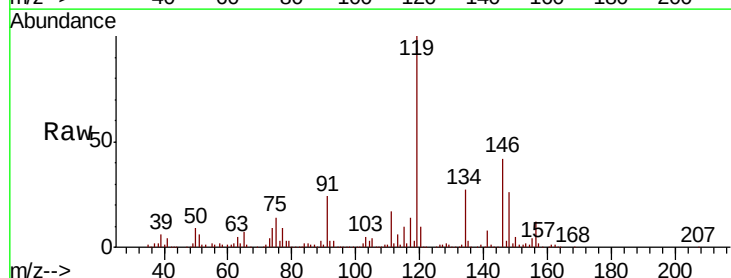
Tgt Ion:119 Resp: 159939

Ion Ratio Lower Upper

119 100

134 26.1 12.7 38.1

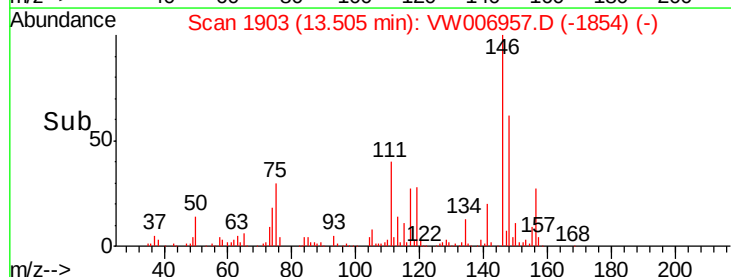
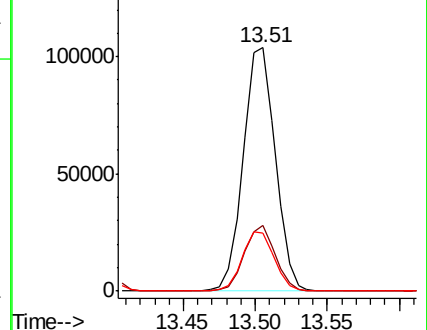
91 24.5 12.4 37.2

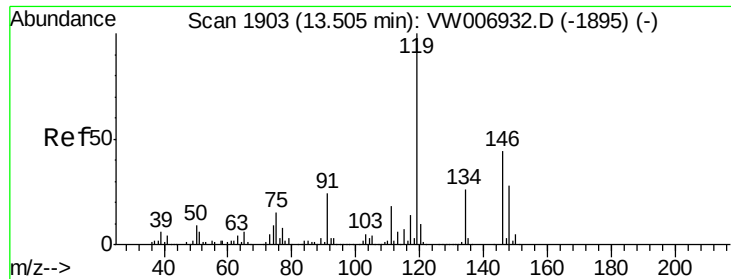


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

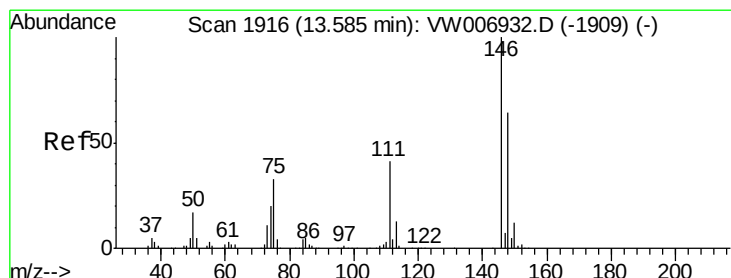
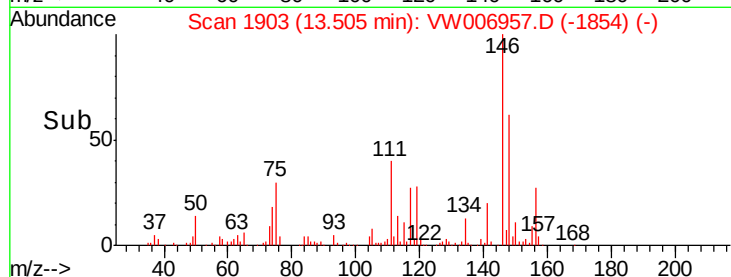
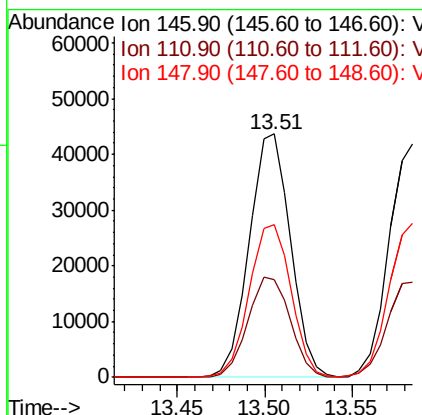
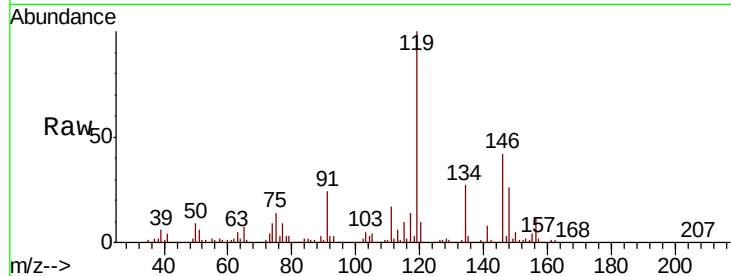




#87  
 1,3-Dichlorobenzene  
 Concen: 53.273 ug/l  
 RT: 13.51 min Scan# 1903  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

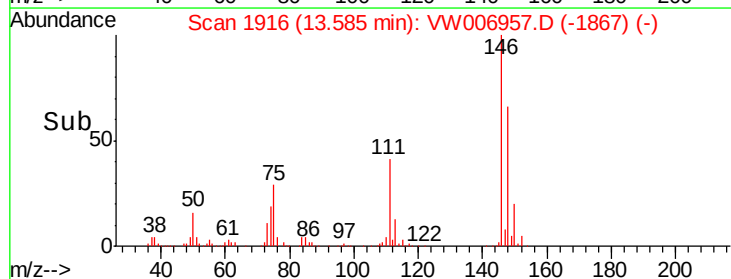
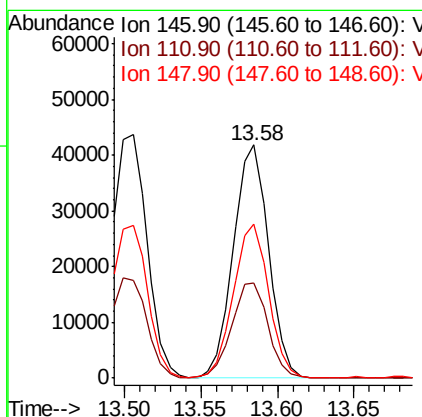
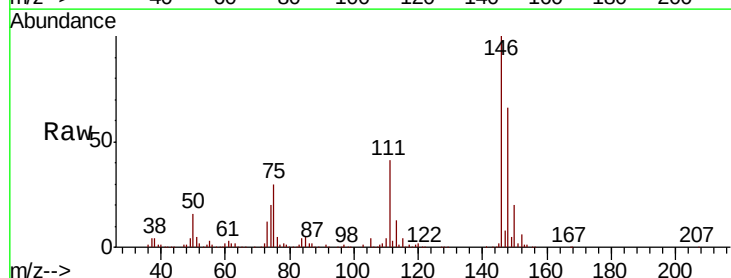
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

Tot Ion:146 Resp: 71539  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 21.3 63.9  
 148 63.8 31.9 95.9

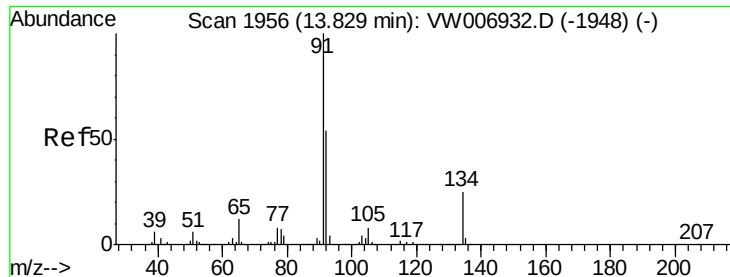


#88  
 1,4-Dichlorobenzene  
 Concen: 49.830 ug/l  
 RT: 13.58 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion:146 Resp: 66689  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 20.7 62.1  
 148 65.5 31.9 95.9







#89

n-Butylbenzene

Concen: 38.092 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW006957.D

Acq: 19 Nov 2018 21:50

Instrument :

MSVOA\_W

ClientSampleId :

DTW-02(11-13)MSD

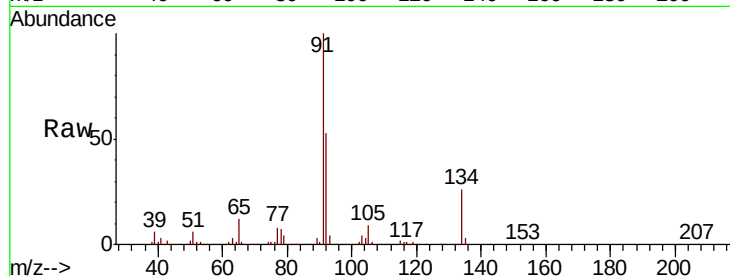
Tot Ion: 91 Resp: 101880

Ion Ratio Lower Upper

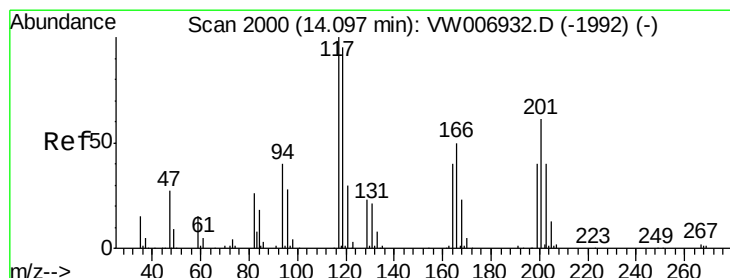
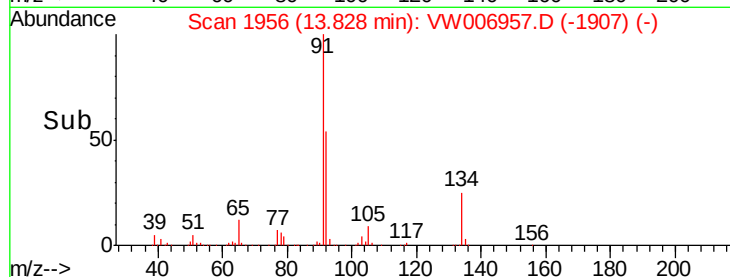
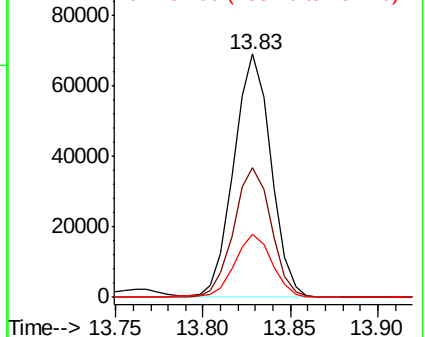
91 100

92 53.9 26.4 79.2

134 26.7 12.9 38.6



Abundance Ion 91.00 (90.70 to 91.70): VW  
Ion 92.00 (91.70 to 92.70): VW  
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 50.796 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW006957.D

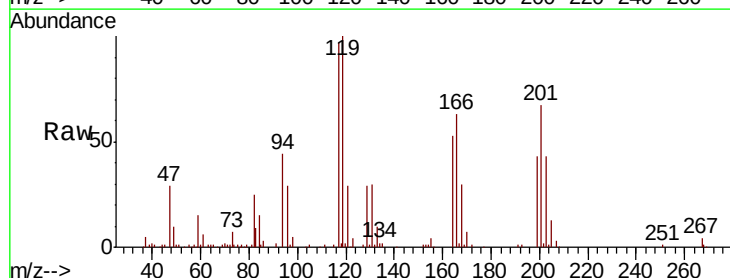
Acq: 19 Nov 2018 21:50

Tgt Ion: 117 Resp: 23398

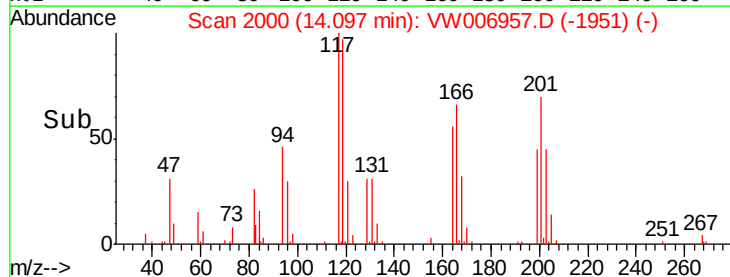
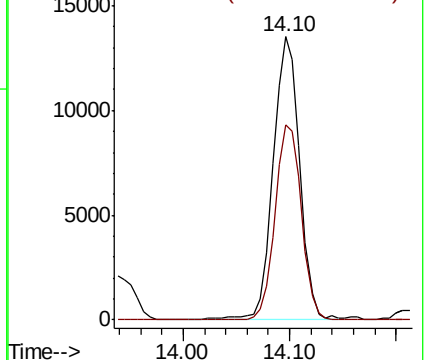
Ion Ratio Lower Upper

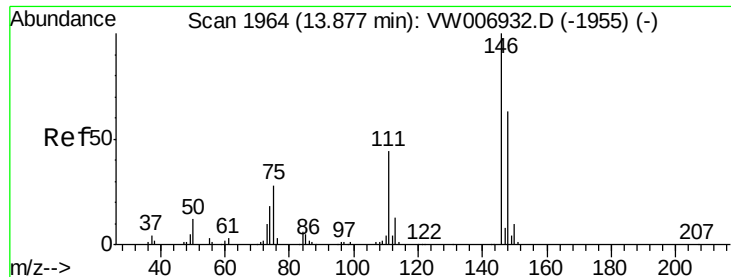
117 100

201 68.2 33.8 101.4



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V

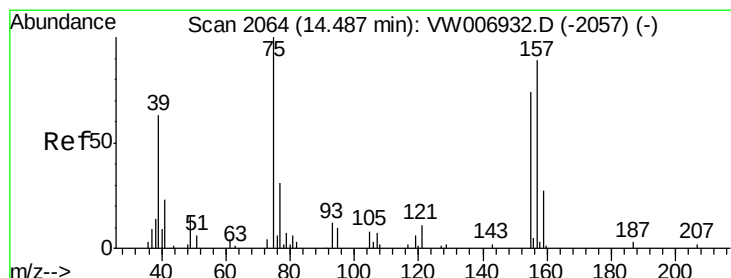
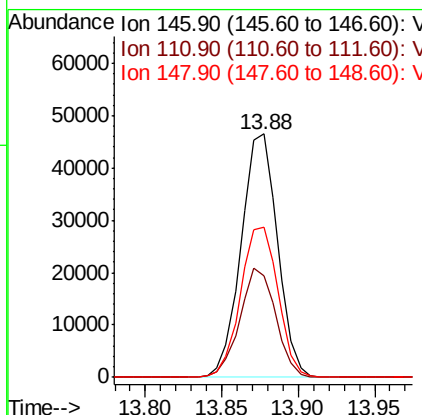
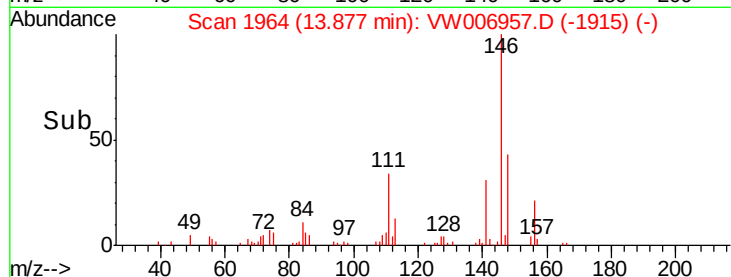
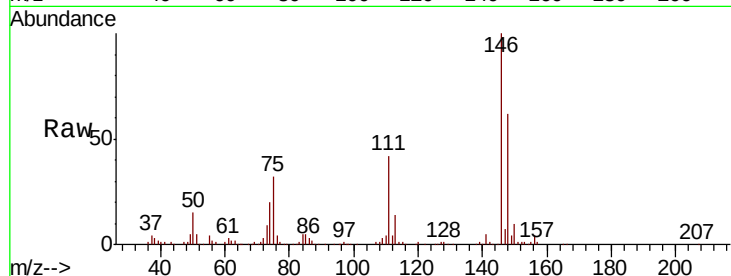




#91  
 1,2-Dichlorobenzene  
 Concen: 64.160 ug/l  
 RT: 13.88 min Scan# 1964  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

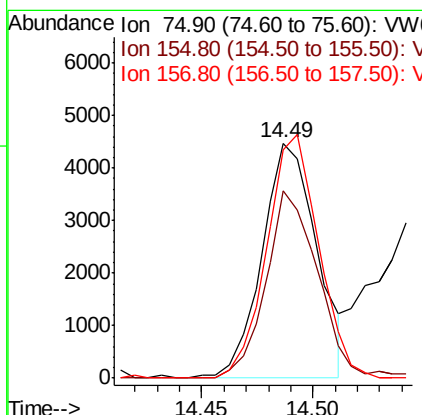
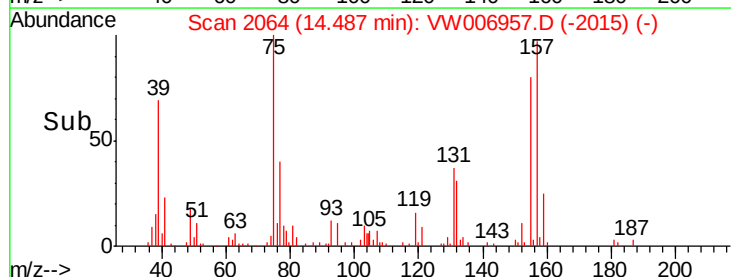
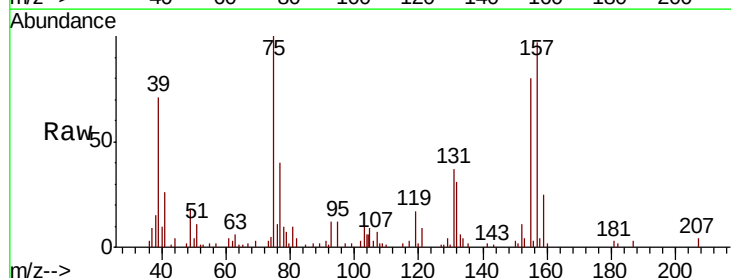
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

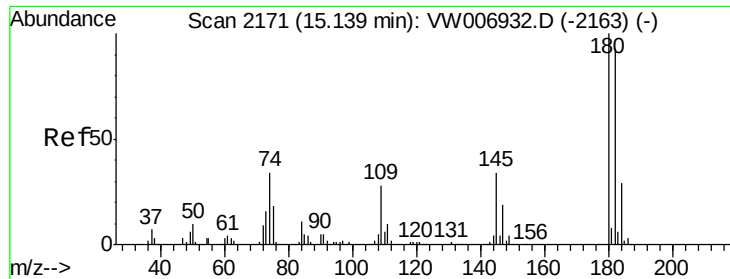
Tot Ion:146 Resp: 77042  
 Ion Ratio Lower Upper  
 146 100  
 111 44.2 22.6 67.7  
 148 63.5 31.7 95.1



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 97.196 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion: 75 Resp: 7666  
 Ion Ratio Lower Upper  
 75 100  
 155 76.1 38.6 115.7  
 157 97.8 49.7 149.1

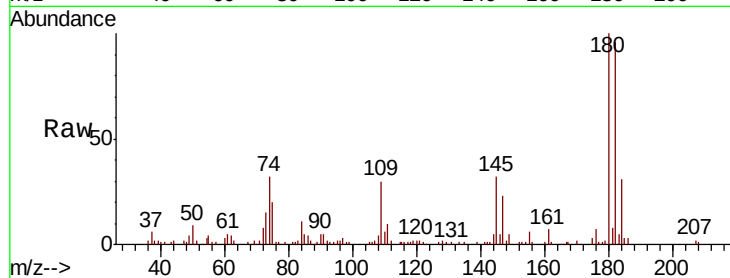




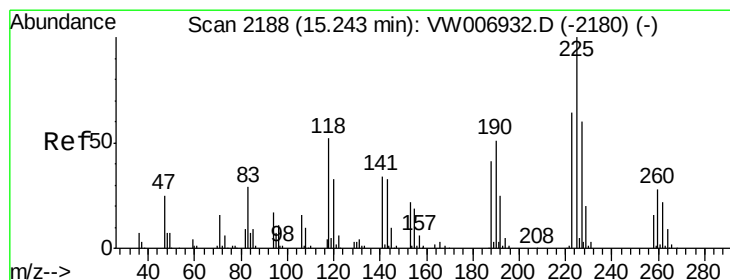
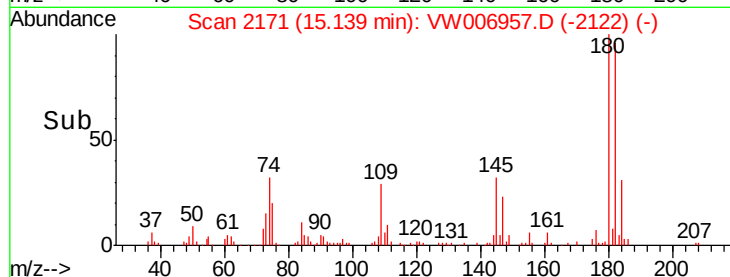
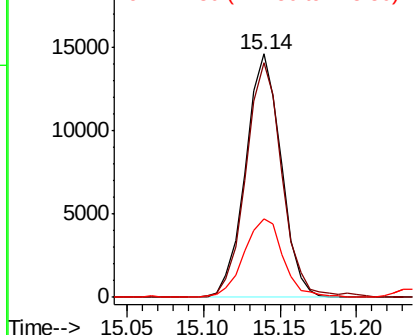
#93  
 1,2,4-Trichlorobenzene  
 Concen: 31.258 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DTW-02(11-13)MSD

Tot Ion:180 Resp: 23616  
 Ion Ratio Lower Upper  
 180 100  
 182 98.2 47.3 141.9  
 145 35.3 16.8 50.4

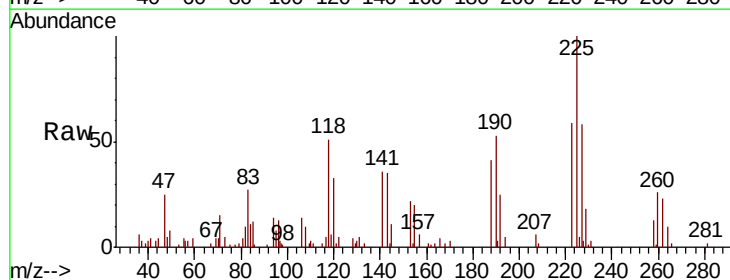


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

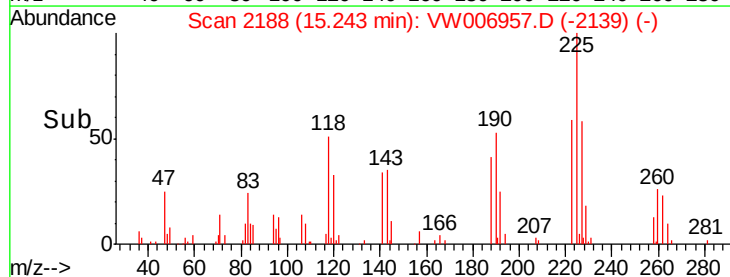
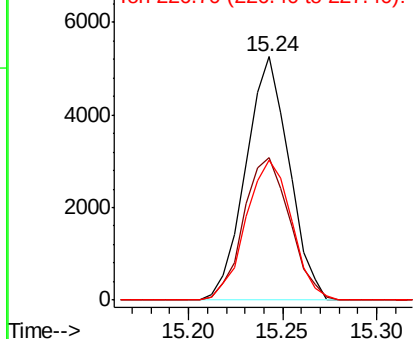


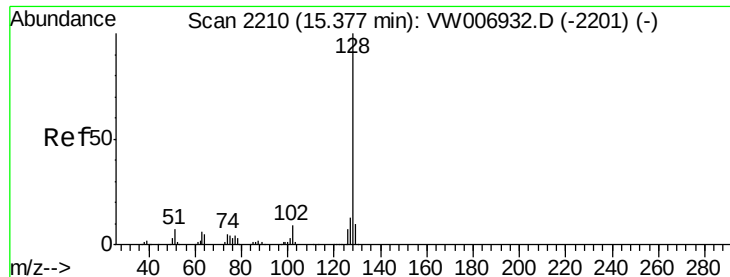
#94  
 Hexachlorobutadiene  
 Concen: 20.978 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: VW006957.D  
 Acq: 19 Nov 2018 21:50

Tgt Ion:225 Resp: 8372  
 Ion Ratio Lower Upper  
 225 100  
 223 62.8 32.1 96.3  
 227 60.9 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V

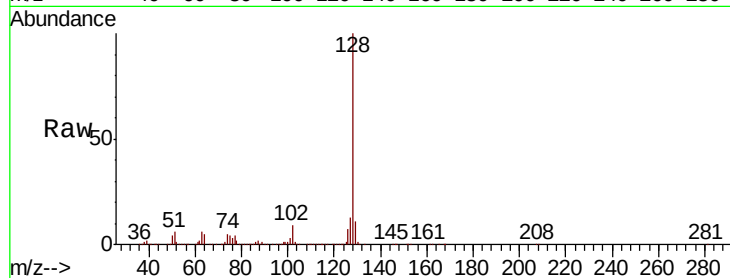




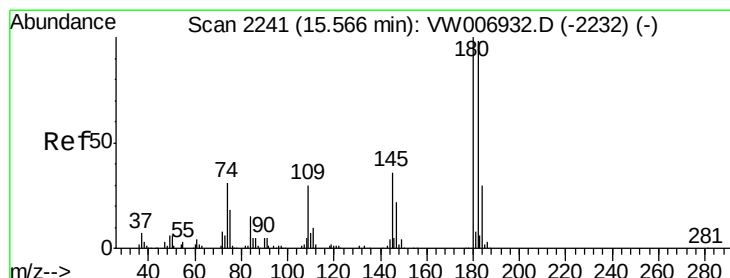
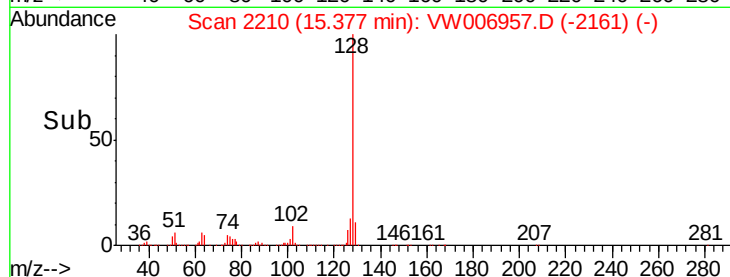
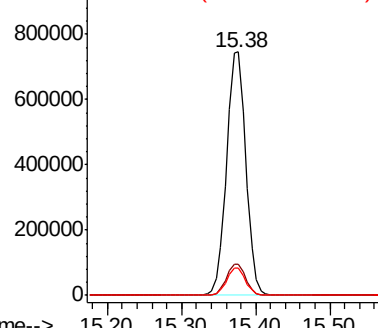
#95  
Naphthalene  
Concen: 933.443 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
DTW-02(11-13)MSD

Tot Ion:128 Resp: 1358812  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.6 15.8  
129 11.0 8.5 12.7

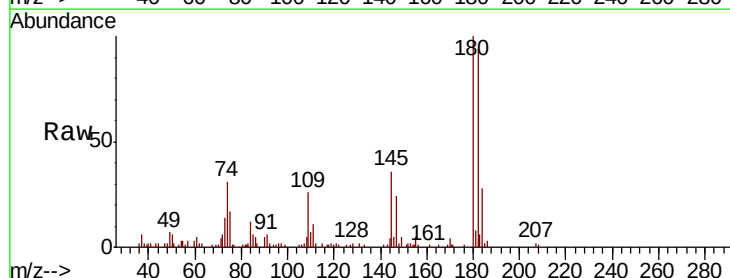


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#96  
1,2,3-Trichlorobenzene  
Concen: 35.878 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. -0.01 min  
Lab File: VW006957.D  
Acq: 19 Nov 2018 21:50

Tgt Ion:180 Resp: 23237  
Ion Ratio Lower Upper  
180 100  
182 94.7 47.4 142.2  
145 38.6 17.6 52.9



Abundance Ion 179.80 (179.50 to 180.50): V  
Ion 181.80 (181.50 to 182.50): V  
Ion 144.90 (144.60 to 145.60): V

